RARE AND

ENDANGERED

SPECIES IN

MARYLAND

QH104.5M3
P7
1987

SECTION I

# RARE AND ENDANGERED SPECIES

# IN MARYLAND'S COASTAL COUNTIES:

# WESTERN SHORE

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Forest, Park and Wildlife Service

Prepared for:

Coastal Resources Division
Tidewater Administration

Preparation of this report was partially funded by the Office of Ocean and Coastal Resources Management National Oceanic and Atmospheric Administration

September 1987

ACKNOWLEDGEMENTS

Special thanks are extended to Jacob Lima, David Burke, Denise Clearwater, and Frank Dawson of the Coastal Resources Division and to Dan Boone, Lynn Davidson, Rosalind Kutler and Penny Thigpen of the Natural Heritage Program for their steadfast support throughout this project. Others which were instrumental in its completion include Earl Bradley, Katharine McCarthy, Abigail Rome, Chris Ludwig, Peter Mazzeo and Aaron Keel.

# PREFACE

This project is part of ongoing efforts by the Maryland Coastal Resources Division of the Tidewater Administration to enhance implementation of Maryland's Coastal Zone Management Program. An important part of this Program is the protection of significant plant and wildlife habitat throughout the coastal zone. Since the Maryland Natural Heritage Program is the State agency responsible for identifying uncommon plant and animal species and their habitats, as well as exemplary natural areas, the Natural Heritage Program was contracted to provide biological and ecological information to all coastal counties on rare and endangered species. This county-specific information is intended to help enable the counties to more fully address the protection of this type of significant plant and wildlife habitat in the coastal zone.

For pragmatic reasons, the information is being disseminated in two documents, one for counties on the Eastern Shore and one for the Western Shore. In addition, three-ring binders are being used to facilitate future updates as more information is gathered and assimilated by the Natural Heritage Program. Because of budgetary constraints, a limited number of copies were printed and will be made available only to those groups assisting the counties in this effort to protect our invaluable natural resources.

Jacob Lima, Director
Coastal Resources Division

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# INTRODUCTION

Rare and endangered plant and animal species fall along a continuum from "in imminent danger of extinction throughout the world" (Rank = A1) to "species believed secure in Maryland but are uncommon, local or declining" (Rank = C). The most important biological and ecological information needed for the discovery or rediscovery of these species and for the design of long-term protection plans are:

1. Scientific names and taxonomic status of species with historical or extant populations in the physiographic region of interest; in this case, the Upper Coastal Plain (Western Shore) and Lower Coastal Plain (Eastern Shore);

2. Plant species phenology, since identification in most cases can only be confirmed when the plant is in flower or fruit;

3. Animal species annual movement/migration patterns and circadian rhythms;

4. Species search image; i.e., those macroscopic morphological features which can be used in the field to distinguish similar species;

5. Habitats of most frequent (primary) and less frequent (secondary) occurrence;

6. Scientific information on population trends in Maryland and surrounding states, abiotic and biotic conditions linked to long-term survival or decline, and any other data which may be useful in protecting populations.

Such biological and ecological information is constantly retrieved by the Natural Heritage Program, analyzed for accuracy and applicability, and stored in two databases. Data for plant species are maintained in the Plant Characterization Abstract Database. An analogous database is used for animals, the Vertebrate Characterization Abstract Database.

In this document, Plant and Vertebrate Characterization Abstracts are provided for rare and endangered plant and wildlife species which have been recorded in the region or which have a high probability of occurrence. Preceding the abstracts are lists of species, by county, which have been documented historically or recently in each county.

# SECTION II

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR ANNE ARUNDEL COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AGALINIS SETACEA | THREAD-LEAVED GERARDIA |
| AGRIMONIA MICROCARPA | SMALL-FRUITED AGRIMONY |
| AGRIMONIA STRIATA | WOODLAND AGRIMONY |
| ARUNDINARIA GIGANTEA | GIANT CANE |
| ASTER CONCOLOR | SILVERY ASTER |
| ASTER NEMORALIS | BOG ASTER |
| ASTER PRAEALTUS | WILLOW ASTER |
| ASTER RADULA | ROUGH-LEAVED ASTER |
| ATHYRIUM PYCNOCARPON | GLADE FERN |
| BIDENS MITIS | |
| CALOPOGON TUBEROSUS | GRASS-PINK |
| CAREX BARRATTII | BARRATT'S SEDGE |
| CAREX BULLATA | BUTTON SEDGE |
| CAREX EXILIS | COAST SEDGE |
| CAREX HYALINOLEPIS | SHORELINE SEDGE |
| CAREX LOUISIANICA | LOUISIANA SEDGE |
| CAREX SEORSA | WEAK STELLATE SEDGE |
| CAREX TONSA | SHAVED SEDGE |
| CAREX VESICARIA | INFLATED SEDGE |
| CHAMAEDAPHNE CALYCULATA | LEATHERLEAF |
| CHELONE OBLIQUA | RED TURTLEHEAD |
| CORALLORHIZA WISTERIANA | WISTER'S CORALROOT |
| CUSCUTA CORYLI | HAZEL DODDER |
| CUSCUTA POLYGONORUM | SMARTWEED DODDER |
| CYPERUS RETROFRACTUS | ROUGH CYPERUS |
| DESMODIUM LAEVIGATUM | SMOOTH TICK-TREFOIL |
| DESMODIUM STRICTUM | STIFF TICK-TREFOIL |
| ELEOCHARIS ALBIDA | SALTMARSH SPIKERUSH |
| ELEOCHARIS FLAVESCENS | PALE SPIKERUSH |
| ELEOCHARIS HALOPHILA | SALT-MARSH SPIKE-RUSH |
| ELEOCHARIS INTERMEDIA | MATTED SPIKERUSH |
| ELEOCHARIS TORTILIS | TWISTED SPIKERUSH |
| ERIOCAULON SEPTANGULARE | SEVEN-ANGLED PIPEWORT |
| FESTUCA PARADOXA | CLUSTER FESCUE |
| FRAXINUS PROFUNDA | PUMPKIN ASH |
| GALACTIA VOLUBILIS | DOWNY MILK PEA |
| GALIUM HISPIDULUM | COAST BEDSTRAW |
| GAYLUSSACIA BRACHYCERA | BOX HUCKLEBERRY |
| GENTIANA VILLOSA | STRIPED GENTIAN |
| GYMNOCLADUS DIOICUS | KENTUCKY COFFEE-TREE |
| HELIANTHEMUM BICKNELLII | HOARY FROSTWEED |
| HELONIAS BULLATA | SWAMP-PINK |
| HEXALECTRIS SPICATA | CRESTED CORALROOT |
| IRIS VERNA | DWARF IRIS |
| JUNCUS CAESARIENSIS | NEW JERSEY RUSH |
| JUNCUS PELOCARPUS | BROWN-FRUITED RUSH |
| LECHEA TENUIFOLIA | NARROW-LEAVED PINWEED |
| LEPTOCHLOA FASCICULARIS | LONG-AWNED DIPLACHNE |

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|---|---|
| LEPTOLOMA COGNATUM | FALL WITCHGRASS |
| LESPEDEZA ANGUSTIFOLIA | NARROW-LEAVED BUSHCLOVER |
| LIMONIUM NASHII | NASH'S SEA LAVENDER |
| LISTERA AUSTRALIS | SOUTHERN TWAYBLADE |
| LYGODIUM PALMATUM | CLIMBING FERN |
| MATELEA CAROLINENSIS | ANGLEPOD |
| MATELEA OBLIQUA | ANGELPOD |
| MONOTROPSIS ODORATA | SWEET PINESAP |
| NYMPHOIDES AQUATICA | LARGER FLOATING-HEART |
| OLDENLANDIA UNIFLORA | CLUSTERED BLUETS |
| PANICUM COMMONSIANUM | COMMONS' PANICGRASS |
| PLATANTHERA FLAVA | PALE GREEN ORCHIS |
| PLUCHEA CAMPHORATA | MARSH FLEABANE |
| POLANISIA DODECANDRA | CLAMMYWEED |
| POLYGONUM RAMOSISSIMUM | BUSHY KNOTWEED |
| POLYGONUM ROBUSTIUS | STOUT SMARTWEED |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| POTAMOGETON RICHARDSONII | REDHEADGRASS |
| POTAMOGETON SPIRILLUS | SPIRAL PONDWEED |
| PUCCINELLIA PALLIDA | PALE MANNAGRASS |
| PYROLA SECUNDA | ONE-SIDED PYROLA |
| RANUNCULUS AMBIGENS | WATER-PLANTAIN SPEARWORT |
| RHYNCHOSIA TOMENTOSA | |
| RHYNCHOSPORA CEPHALANTHA | CAPITATE BEAKRUSH |
| RHYNCHOSPORA GLOMERATA | CLUSTERED BEAKRUSH |
| ROTALA RAMOSIOR | TOOTH-CUP |
| SAGITTARIA CALYCINA | SPONGY LOPHOTOCARPUS |
| SALIX TRISTIS | DWARF PRAIRIE WILLOW |
| SARRACENIA PURPUREA | NORTHERN PITCHER-PLANT |
| SCHWALBEA AMERICANA | CHAFFSEED |
| SCIRPUS SMITHII | SMITH'S CLUBRUSH |
| SCIRPUS SUBTERMINALIS | WATER CLUBRUSH |
| SENECIO ANONYMUS | SMALL'S RAGWORT |
| SILENE NIVEA | SNOWY CAMPION |
| SMILAX PSEUDO-CHINA | HALBERD-LEAVED GREENBRIER |
| SMILAX WALTERI | RED-BERRIED GREENBRIER |
| SOLIDAGO HISPIDA | HAIRY GOLDENROD |
| SOLIDAGO SPECIOSA | SHOWY GOLDENROD |
| SPOROBOLUS ASPER | LONG-LEAVED RUSHGRASS |
| STENANTHIUM GRAMINEUM | FEATHERBELLS |
| THALICTRUM DASYCARPUM | PURPLE MEADOWRUE |
| TOFIELDIA RACEMOSA | COASTAL FALSE ASPHODEL |
| TRACHELOSPERMUM DIFFORME | CLIMBING DOGBANE |
| TRIADENUM TUBULOSUM | LARGE MARSH ST. JOHN'S WORT |
| TRICHOSTEMA SETACEUM | NARROW-LEAVED BLUECURLS |
| TRIOSTEUM ANGUSTIFOLIUM | NARROW-LEAVED HORSE-GENTIAN |
| UTRICULARIA BIFLORA | TWO-FLOWERED BLADDERWORT |
| UTRICULARIA CORNUTA | HORNED BLADDERWORT |
| UTRICULARIA FIBROSA | FIBROUS BLADDERWORT |
| VITIS CINEREA | GRAYBARK |

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR BALTIMORE COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| ADLUMIA FUNGOSA | CLIMBING FUMITORY |
| AGALINIS ACUTA | SANDPLAIN GERARDIA |
| AGALINIS DECEMLOBA | BLUE RIDGE FALSE-FOXGLOVE |
| AGALINIS FASCICULATA | |
| AGALINIS SETACEA | THREAD-LEAVED GERARDIA |
| AGASTACHE SCROPHULARIIFOLIA | PURPLE GIANT HYSSOP |
| AMMANNIA LATIFOLIA | KOEHNE'S AMMANNIA |
| ARABIS MISSOURIENSIS | MISSOURI ROCKCRESS |
| ARNICA ACAULIS | LEOPARD'S-BANE |
| ARUNDINARIA GIGANTEA | GIANT CANE |
| ASCLEPIAS RUBRA | RED MILKWEED |
| ASPLENIUM BRADLEYI | BRADLEY'S SPLEENWORT |
| ASPLENIUM PINNATIFIDUM | LOBED SPLEENWORT |
| ASTER CONCOLOR | SILVERY ASTER |
| ASTER DEPAUPERATUS | SERPENTINE ASTER |
| ATHYRIUM PYCNOCARPON | GLADE FERN |
| BETULA POPULIFOLIA | GRAY BIRCH |
| BIDENS BIDENTOIDES | MARYLAND BUR-MARIGOLD |
| BIDENS CORONATA | TICKSEED SUNFLOWER |
| BOUTELOUA CURTIPENDULA | SIDE-OATS GRAMA |
| BROMUS LATIGLUMIS | BROAD-GLUMED BROME |
| BROMUS NOTTOWAYANUS | NOTTOWAY'S BROME GRASS |
| CACALIA MUHLENBERGII | GREAT INDIAN-PLANTAIN |
| CALOPOGON TUBEROSUS | GRASS-PINK |
| CAREX AGGREGATA | GLOMERATE SEDGE |
| CAREX BREVIOR | A SEDGE |
| CAREX BROMOIDES | BROME-LIKE SEDGE |
| CAREX BULLATA | BUTTON SEDGE |
| CAREX HYSTRICINA | PORCUPINE SEDGE |
| CAREX LANUGINOSA | WOOLLY SEDGE |
| CAREX LEAVENWORTHII | LEAVENWORTH'S SEDGE |
| CAREX MESOCHOREA | MIDLAND SEDGE |
| CAREX STRIATULA | LINED SEDGE |
| CAREX TENERA | SLENDER SEDGE |
| CAREX TRICHOCARPA | HAIRY-FRUITED SEDGE |
| CAREX VESTITA | VELVETY SEDGE |
| CAREX WOODII | WOOD'S SEDGE |
| CHENOPODIUM STANDLEYANUM | STANDLEY'S GOOSEFOOT |
| COELOGLOSSUM VIRIDE | LONG-BRACTED ORCHIS |
| CORALLORHIZA WISTERIANA | WISTER'S CORALROOT |
| DESCHAMPSIA CESPITOSA | TUFTED HAIRGRASS |
| DESMODIUM LAEVIGATUM | SMOOTH TICK-TREFOIL |
| DESMODIUM LINEATUM | LINEAR-LEAVED TICK-TREFOIL |
| DESMODIUM RIGIDUM | RIGID TICK-TREFOIL |
| DESMODIUM SESSILIFOLIUM | SESSILE-LEAVED TICK-TREFOIL |
| DESMODIUM STRICTUM | STIFF TICK-TREFOIL |
| DIRCA PALUSTRIS | LEATHERWOOD |
| DRYOPTERIS CELSA | LOG FERN |

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| ELEOCHARIS INTERMEDIA | MATTED SPIKERUSH |
| ELEOCHARIS TORTILIS | TWISTED SPIKERUSH |
| EQUISETUM SYLVATICUM | WOOD HORSETAIL |
| ERIOCAULON PARKERI | PARKER'S PIPEWORT |
| EUPATORIUM LEUCOLEPIS | WHITE-BRACTED BONESET |
| EUPATORIUM MACULATUM | SPOTTED JOE-PYE-WEED |
| EUPHORBIA PURPUREA | DARLINGTON'S SPURGE |
| FESTUCA PARADOXA | CLUSTER FESCUE |
| FILIPENDULA RUBRA | QUEEN-OF-THE-PRAIRIE |
| GENTIANA ANDREWSII | FRINGE-TIP CLOSED GENTIAN |
| GENTIANA VILLOSA | STRIPED GENTIAN |
| GENTIANOPSIS CRINITA | FRINGED GENTIAN |
| GERANIUM ROBERTIANUM | HERB-ROBERT |
| GYMNOCLADUS DIOICUS | KENTUCKY COFFEE-TREE |
| HELIANTHEMUM BICKNELLII | HOARY FROSTWEED |
| HIEROCHLOE ODORATA | HOLY GRASS |
| HYDRASTIS CANADENSIS | GOLDENSEAL |
| HYPERICUM DENTICULATUM | COPPERY ST. JOHN'S-WORT |
| JUNCUS TORREYI | TORREY'S RUSH |
| LACTUCA HIRSUTA | HAIRY LETTUCE |
| LIMOSELLA SUBULATA | MUDWORT |
| LINUM SULCATUM | GROOVED YELLOW FLAX |
| LYCOPODIUM INUNDATUM | BOG CLUBMOSS |
| LYGODIUM PALMATUM | CLIMBING FERN |
| MATELEA OBLIQUA | ANGELPOD |
| MATTEUCCIA STRUTHIOPTERIS | OSTRICH FERN |
| MELANTHIUM LATIFOLIUM | BROAD-LEAVED BUNCHFLOWER |
| MONOTROPSIS ODORATA | SWEET PINESAP |
| NAJAS GRACILLIMA | THREAD-LIKE NAIAD |
| PANICUM FLEXILE | WIRY WITCH-GRASS |
| PANICUM OLIGOSANTHES | FEW-FLOWERED PANICGRASS |
| PEDICULARIS LANCEOLATA | SWAMP LOUSEWORT |
| PHALARIS CAROLINIANA | MAY GRASS |
| PILEA FONTANA | COOLWORT |
| PLATANTHERA FLAVA | PALE GREEN ORCHIS |
| PLATANTHERA PERAMOENA | PURPLE FRINGELESS ORCHIS |
| PLATANTHERA PSYCODES | SMALL PURPLE-FRINGED ORCHIS |
| POA LANGUIDA | WEAK SPEARGRASS |
| POA PALUSTRIS | FOWL BLUEGRASS |
| POLEMONIUM VAN-BRUNTIAE | JACOB'S-LADDER |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| POTAMOGETON SPIRILLUS | SPIRAL PONDWEED |
| POTENTILLA ARGUTA | TALL CINQUEFOIL |
| PYCNANTHEMUM TORREI | TORREY'S MOUNTAIN-MINT |
| PYCNANTHEMUM VIRGINIANUM | VIRGINIA MOUNTAIN-MINT |
| QUERCUS MACROCARPA | MOSSY-CUP OAK |
| RANUNCULUS PENSYLVANICUS | BRISTLY CROWFOOT |
| RHYNCHOSPORA CEPHALANTHA | CAPITATE BEAKRUSH |
| ROSA SETIGERA | PRAIRIE ROSE |
| ROTALA RAMOSIOR | TOOTH-CUP |
| SAGITTARIA TERES | SLENDER ARROWHEAD |
| SALIX BEBBIANA | BEBB'S WILLOW |
| SCIRPUS SMITHII | SMITH'S CLUBRUSH |
| SCLERIA RETICULARIS | RETICULATED NUTRUSH |

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| SCUTELLARIA LEONARDII | LEONARD'S SKULLCAP |
| SENECIO ANONYMUS | SMALL'S RAGWORT |
| SILENE NIVEA | SNOWY CAMPION |
| SOLIDAGO HISPIDA | HAIRY GOLDENROD |
| SOLIDAGO SPECIOSA | SHOWY GOLDENROD |
| SPOROBOLUS ASPER | LONG-LEAVED RUSHGRASS |
| STACHYS HYSSOPIFOLIA | HYSSOP-LEAVED HEDGE-NETTLE |
| STACHYS LATIDENS | |
| TALINUM TERETIFOLIUM | FAMEFLOWER |
| THASPIUM TRIFOLIATUM | PURPLE MEADOW-PARSNIP |
| TOFIELDIA RACEMOSA | COASTAL FALSE ASPHODEL |
| TRIOSTEUM ANGUSTIFOLIUM | NARROW-LEAVED HORSE-GENTIAN |
| VITIS CINEREA | GRAYBARK |
| VITIS RUPESTRIS | SAND GRAPE |

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR CALVERT COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AESCHYNOMENE VIRGINICA | SENSITIVE JOINT-VETCH |
| AGALINIS OBTUSIFOLIA | |
| ANGELICA ATROPURPUREA | GREAT ANGELICA |
| ANTENNARIA SOLITARIA | SINGLE-HEADED PUSSYTOES |
| ARISTIDA CURTISSII | CURTISS' THREE-AWN |
| ATHYRIUM PYCNOCARPON | GLADE FERN |
| AZOLLA CAROLINIANA | MOSQUITO FERN |
| BIDENS MITIS | |
| CAREX HYALINOLEPIS | SHORELINE SEDGE |
| CAREX MESOCHOREA | MIDLAND SEDGE |
| CAREX TENERA | SLENDER SEDGE |
| CAREX TONSA | SHAVED SEDGE |
| CHELONE OBLIQUA | RED TURTLEHEAD |
| DESMODIUM LAEVIGATUM | SMOOTH TICK-TREFOIL |
| DESMODIUM LINEATUM | LINEAR-LEAVED TICK-TREFOIL |
| DESMODIUM OCHROLEUCUM | CREAM-FLOWERED TICK-TREFOIL |
| DESMODIUM RIGIDUM | RIGID TICK-TREFOIL |
| DIGITARIA VILLOSA | |
| ELEOCHARIS ROSTELLATA | BEAKED SPIKERUSH |
| FIMBRISTYLIS PUBERULA | HAIRY FIMBRISTYLIS |
| GALACTIA VOLUBILIS | DOWNY MILK PEA |
| LEMNA TRISULCA | STAR DUCKWEED |
| LEPTOCHLOA FASCICULARIS | LONG-AWNED DIPLACHNE |
| LYGODIUM PALMATUM | CLIMBING FERN |
| MATELEA CAROLINENSIS | ANGLEPOD |
| MELOTHRIA PENDULA | CREEPING CUCUMBER |
| MYOSOTIS MACROSPERMA | LARGE-SEEDED FORGET-ME-NOT |
| PANICUM COMMONSIANUM | COMMONS' PANICGRASS |
| PLATANTHERA FLAVA | PALE GREEN ORCHIS |
| PLUCHEA CAMPHORATA | MARSH FLEABANE |
| POTAMOGETON FOLIOSUS | LEAFY PONDWEED |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| PYROLA SECUNDA | ONE-SIDED PYROLA |
| RHYNCHOSIA TOMENTOSA | |
| SAGITTARIA LONGIROSTRA | LONG-BEAKED ARROWHEAD |
| SESUVIUM MARITIMUM | SEA-PURSLANE |
| SOLIDAGO SPECIOSA | SHOWY GOLDENROD |

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR CHARLES COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AESCHYNOMENE VIRGINICA | SENSITIVE JOINT-VETCH |
| AGALINIS OBTUSIFOLIA | |
| AGALINIS SETACEA | THREAD-LEAVED GERARDIA |
| AMMANNIA LATIFOLIA | KOEHNE'S AMMANNIA |
| ARISTIDA CURTISSII | CURTISS' THREE-AWN |
| ASARUM VIRGINICUM | VIRGINIA HEARTLEAF |
| ASTER CONCOLOR | SILVERY ASTER |
| ATHYRIUM PYCNOCARPON | GLADE FERN |
| CAREX LOUISIANICA | LOUISIANA SEDGE |
| CAREX SEORSA | WEAK STELLATE SEDGE |
| CAREX SILICEA | SEA-BEACH SEDGE |
| CENTROSEMA VIRGINIANUM | SPURRED BUTTERFLY-PEA |
| CENTUNCULUS MINIMUS | CHAFFWEED |
| CRASSULA AQUATICA | PYGMYWEED |
| DESMODIUM LINEATUM | LINEAR-LEAVED TICK-TREFOIL |
| DIGITARIA VILLOSA | |
| ELEOCHARIS ALBIDA | SALTMARSH SPIKERUSH |
| ERIOCAULON PARKERI | PARKER'S PIPEWORT |
| GALACTIA VOLUBILIS | DOWNY MILK PEA |
| GENTIANA ANDREWSII | FRINGE-TIP CLOSED GENTIAN |
| GENTIANA VILLOSA | STRIPED GENTIAN |
| ILEX DECIDUA | DECIDUOUS HOLLY |
| JUNCUS BRACHYCARPUS | SHORT-FRUITED RUSH |
| LECHEA TENUIFOLIA | NARROW-LEAVED PINWEED |
| LIATRIS SQUARROSA | SCALY BLAZING-STAR |
| LIMONIUM NASHII | NASH'S SEA LAVENDER |
| LUDWIGIA DECURRENS | PRIMROSE WILLOW |
| LYSIMACHIA HYBRIDA | LOWLAND LOOSESTRIFE |
| MATELEA CAROLINENSIS | ANGLEPOD |
| MYOSOTIS MACROSPERMA | LARGE-SEEDED FORGET-ME-NOT |
| MYRIOPHYLLUM HETEROPHYLLUM | BROADLEAF WATER-MILFOIL |
| NELUMBO LUTEA | AMERICAN LOTUS |
| NEMOPHILA APHYLLA | |
| PARNASSIA ASARIFOLIA | KIDNEYLEAF GRASS-OF-PARNASSUS |
| PASPALUM FLUITANS | FLOATING PASPALUM |
| PLUCHEA CAMPHORATA | MARSH FLEABANE |
| POLYGONUM ROBUSTIUS | STOUT SMARTWEED |
| POTAMOGETON AMPLIFOLIUS | LARGE-LEAVED PONDWEED |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| POTAMOGETON PUSILLUS | SLENDER PONDWEED |
| POTAMOGETON RICHARDSONII | REDHEADGRASS |
| POTAMOGETON ROBBINSII | ROBBINS' PONDWEED |
| POTAMOGETON ZOSTERIFORMIS | FLATSTEM PONDWEED |
| RANUNCULUS HEDERACEUS | LONG-STALKED CROWFOOT |
| RHYNCHOSPORA CORNICULATA | SHORT-BRISTLED HORNEDRUSH |
| RUMEX ALTISSIMUS | TALL DOCK |
| SARRACENIA PURPUREA | NORTHERN PITCHER-PLANT |

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| SMILAX PSEUDO-CHINA | HALBERD-LEAVED GREENBRIER |
| SMILAX WALTERI | RED-BERRIED GREENBRIER |

## RARE AND ENDANGERED PLANT SPECIES
## RECORDED FOR HARFORD COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AMELANCHIER SPICATA | RUNNING JUNEBERRY |
| ANEMONE CANADENSIS | CANADA ANEMONE |
| ANTENNARIA SOLITARIA | SINGLE-HEADED PUSSYTOES |
| ASPLENIUM BRADLEYI | BRADLEY'S SPLEENWORT |
| ASTER DEPAUPERATUS | SERPENTINE ASTER |
| ATHYRIUM PYCNOCARPON | GLADE FERN |
| BIDENS BIDENTOIDES | MARYLAND BUR-MARIGOLD |
| BIDENS CORONATA | TICKSEED SUNFLOWER |
| BIDENS DISCOIDEA | SWAMP BEGGAR-TICKS |
| BIDENS MITIS | |
| BOLTONIA ASTEROIDES | ASTER-LIKE BOLTONIA |
| BUCHNERA AMERICANA | BLUE-HEARTS |
| CACALIA SUAVEOLENS | SWEET-SCENTED INDIAN-PLANTAIN |
| CAMPANULA ROTUNDIFOLIA | HAREBELL |
| CAREX BROMOIDES | BROME-LIKE SEDGE |
| CAREX BUXBAUMII | BUXBAUM'S SEDGE |
| CAREX HITCHCOCKIANA | HITCHCOCK'S SEDGE |
| CAREX LANUGINOSA | WOOLLY SEDGE |
| CAREX LOUISIANICA | LOUISIANA SEDGE |
| CAREX STRIATULA | LINED SEDGE |
| CERATOPHYLLUM MURICATUM | PRICKLY HORNWORT |
| COREOPSIS TRIPTERIS | TALL TICKSEED |
| CUSCUTA POLYGONORUM | SMARTWEED DODDER |
| CYPERUS DENTATUS | TOOTHED SEDGE |
| DESMODIUM RIGIDUM | RIGID TICK-TREFOIL |
| EQUISETUM FLUVIATILE | WATER HORSETAIL |
| ERIOCAULON PARKERI | PARKER'S PIPEWORT |
| ERIOCAULON SEPTANGULARE | SEVEN-ANGLED PIPEWORT |
| EUPHORBIA PURPUREA | DARLINGTON'S SPURGE |
| GENTIANA ANDREWSII | FRINGE-TIP CLOSED GENTIAN |
| HYDRASTIS CANADENSIS | GOLDENSEAL |
| JUNCUS BALTICUS | BALTIC RUSH |
| JUNCUS BRACHYCARPUS | SHORT-FRUITED RUSH |
| JUNCUS LONGII | BAYARD LONG RUSH |
| LINUM FLORIDANUM | FLORIDA YELLOW FLAX |
| LYGODIUM PALMATUM | CLIMBING FERN |
| MATTEUCCIA STRUTHIOPTERIS | OSTRICH FERN |
| PANICUM FLEXILE | WIRY WITCH-GRASS |
| PEDICULARIS LANCEOLATA | SWAMP LOUSEWORT |
| POLANISIA DODECANDRA | CLAMMYWEED |
| POLYGONUM ROBUSTIUS | STOUT SMARTWEED |
| POTAMOGETON AMPLIFOLIUS | LARGE-LEAVED PONDWEED |
| POTAMOGETON FOLIOSUS | LEAFY PONDWEED |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| POTAMOGETON PUSILLUS | SLENDER PONDWEED |
| POTAMOGETON RICHARDSONII | REDHEADGRASS |
| POTAMOGETON SPIRILLUS | SPIRAL PONDWEED |

| | |
|---|---|
| POTAMOGETON ZOSTERIFORMIS | FLATSTEM PONDWEED |
| PYCNANTHEMUM VERTICILLATUM | WHORLED MOUNTAIN-MINT |
| QUERCUS MACROCARPA | MOSSY-CUP OAK |
| RHYNCHOSPORA GLOBULARIS | GRASS-LIKE BEAKRUSH |
| SAGITTARIA CALYCINA | SPONGY LOPHOTOCARPUS |
| SAGITTARIA LONGIROSTRA | LONG-BEAKED ARROWHEAD |
| SALIX TRISTIS | DWARF PRAIRIE WILLOW |
| SCIRPUS CYLINDRICUS | SALT-MARSH BULRUSH |
| SILENE NIVEA | SNOWY CAMPION |
| STELLARIA ALSINE | TRAILING STITCHWORT |
| STENANTHIUM GRAMINEUM | FEATHERBELLS |
| THASPIUM TRIFOLIATUM | PURPLE MEADOW-PARSNIP |
| TRIADENUM TUBULOSUM | LARGE MARSH ST. JOHN'S WORT |

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR PRINCE GEORGE'S COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AESCHYNOMENE VIRGINICA | SENSITIVE JOINT-VETCH |
| AGALINIS DECEMLOBA | BLUE RIDGE FALSE-FOXGLOVE |
| AGALINIS FASCICULATA | |
| AGALINIS OBTUSIFOLIA | |
| AGALINIS SETACEA | THREAD-LEAVED GERARDIA |
| AGRIMONIA STRIATA | WOODLAND AGRIMONY |
| ALETRIS AUREA | GOLDEN COLICROOT |
| AMELANCHIER OBOVALIS | COASTAL JUNEBERRY |
| AMELANCHIER SPICATA | RUNNING JUNEBERRY |
| ANAPHALIS MARGARITACEA | PEARLY EVERLASTING |
| ANTENNARIA SOLITARIA | SINGLE-HEADED PUSSYTOES |
| APOCYNUM SIBIRICUM | CLASPING-LEAVED DOGBANE |
| ARETHUSA BULBOSA | ARETHUSA |
| ARISTIDA CURTISSII | CURTISS' THREE-AWN |
| ARNICA ACAULIS | LEOPARD'S-BANE |
| ARUNDINARIA GIGANTEA | GIANT CANE |
| ASCLEPIAS RUBRA | RED MILKWEED |
| ASTER CONCOLOR | SILVERY ASTER |
| ASTER RADULA | ROUGH-LEAVED ASTER |
| ATHYRIUM PYCNOCARPON | GLADE FERN |
| AZOLLA CAROLINIANA | MOSQUITO FERN |
| BIDENS DISCOIDEA | SWAMP BEGGAR-TICKS |
| BIDENS MITIS | |
| BROMUS LATIGLUMIS | BROAD-GLUMED BROME |
| BUCHNERA AMERICANA | BLUE-HEARTS |
| CALOPOGON TUBEROSUS | GRASS-PINK |
| CAREX AGGREGATA | GLOMERATE SEDGE |
| CAREX BULLATA | BUTTON SEDGE |
| CAREX CEPHALOIDEA | THIN-LEAVED SEDGE |
| CAREX EMORYI | EMORY'S SEDGE |
| CAREX FOENEA | DRY-SPIKE SEDGE |
| CAREX HYALINOLEPIS | SHORELINE SEDGE |
| CAREX LACUSTRIS | LAKE-BANK SEDGE |
| CAREX LEAVENWORTHII | LEAVENWORTH'S SEDGE |
| CAREX LOUISIANICA | LOUISIANA SEDGE |
| CAREX ROSTRATA | BEAKED SEDGE |
| CAREX RUGOSPERMA | UMBEL-LIKE SEDGE |
| CAREX SEORSA | WEAK STELLATE SEDGE |
| CAREX SHORTIANA | SHORT'S SEDGE |
| CAREX TENERA | SLENDER SEDGE |
| CAREX TONSA | SHAVED SEDGE |
| CAREX VENUSTA | DARK GREEN SEDGE |
| CAREX VESICARIA | INFLATED SEDGE |
| CENTROSEMA VIRGINIANUM | SPURRED BUTTERFLY-PEA |
| CENTUNCULUS MINIMUS | CHAFFWEED |
| CHELONE OBLIQUA | RED TURTLEHEAD |
| CORALLORHIZA WISTERIANA | WISTER'S CORALROOT |
| CYPERUS RETROFRACTUS | ROUGH CYPERUS |

| | |
|---|---|
| CYPERUS TENUIFOLIUS | THINLEAF FLATSEDGE |
| DESMODIUM LAEVIGATUM | SMOOTH TICK-TREFOIL |
| DESMODIUM RIGIDUM | RIGID TICK-TREFOIL |
| ELEOCHARIS FLAVESCENS | PALE SPIKERUSH |
| ELEOCHARIS TORTILIS | TWISTED SPIKERUSH |
| EUPATORIUM LEUCOLEPIS | WHITE-BRACTED BONESET |
| EUPATORIUM MACULATUM | SPOTTED JOE-PYE-WEED |
| EUPHORBIA VERMICULATA | HAIRY SPURGE |
| FRAXINUS PROFUNDA | PUMPKIN ASH |
| GALACTIA VOLUBILIS | DOWNY MILK PEA |
| GENTIANA ANDREWSII | FRINGE-TIP CLOSED GENTIAN |
| GENTIANA VILLOSA | STRIPED GENTIAN |
| GRATIOLA VISCIDULA | SHORT'S HEDGE-HYSSOP |
| HELIANTHEMUM BICKNELLII | HOARY FROSTWEED |
| HYPERICUM DENTICULATUM | COPPERY ST. JOHN'S-WORT |
| ILEX DECIDUA | DECIDUOUS HOLLY |
| IRIS VERNA | DWARF IRIS |
| JUNCUS BRACHYCARPUS | SHORT-FRUITED RUSH |
| JUNCUS LONGII | BAYARD LONG RUSH |
| LACTUCA HIRSUTA | HAIRY LETTUCE |
| LATHYRUS PALUSTRIS | VETCHLING |
| LECHEA TENUIFOLIA | NARROW-LEAVED PINWEED |
| LESPEDEZA ANGUSTIFOLIA | NARROW-LEAVED BUSHCLOVER |
| LINUM FLORIDANUM | FLORIDA YELLOW FLAX |
| LINUM INTERCURSUM | YELLOW FLAX |
| LISTERA AUSTRALIS | SOUTHERN TWAYBLADE |
| LUDWIGIA HIRTELLA | HAIRY LUDWIGIA |
| LYCOPODIUM CAROLINIANUM | CAROLINA CLUBMOSS |
| LYGODIUM PALMATUM | CLIMBING FERN |
| MATELEA CAROLINENSIS | ANGLEPOD |
| MELICA MUTICA | NARROW MELICGRASS |
| MYOSOTIS MACROSPERMA | LARGE-SEEDED FORGET-ME-NOT |
| NEMOPHILA APHYLLA | |
| OLDENLANDIA UNIFLORA | CLUSTERED BLUETS |
| ONOSMODIUM VIRGINIANUM | VIRGINIA FALSE-GROMWELL |
| PANICUM ACICULARE | BRISTLING PANICGRASS |
| PANICUM COMMONSIANUM | COMMONS' PANICGRASS |
| PANICUM OLIGOSANTHES | FEW-FLOWERED PANICGRASS |
| PANICUM SCABRIUSCULUM | TALL SWAMP PANICGRASS |
| PASSIFLORA INCARNATA | PURPLE PASSION-FLOWER |
| PEDICULARIS LANCEOLATA | SWAMP LOUSEWORT |
| PHACELIA RANUNCULACEA | COVILLE'S PHACELIA |
| PLANTAGO CORDATA | HEART-LEAVED PLANTAIN |
| PLATANTHERA FLAVA | PALE GREEN ORCHIS |
| PLATANTHERA PERAMOENA | PURPLE FRINGELESS ORCHIS |
| PLUCHEA CAMPHORATA | MARSH FLEABANE |
| POA PALUSTRIS | FOWL BLUEGRASS |
| POLYGALA CRUCIATA | CROSS-LEAVED MILKWORT |
| POLYGONUM DENSIFLORUM | DENSE-FLOWERED KNOTWEED |
| POTAMOGETON AMPLIFOLIUS | LARGE-LEAVED PONDWEED |
| POTAMOGETON FOLIOSUS | LEAFY PONDWEED |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| POTAMOGETON PUSILLUS | SLENDER PONDWEED |
| POTAMOGETON ROBBINSII | ROBBINS' PONDWEED |

| | |
|---|---|
| POTAMOGETON SPIRILLUS | SPIRAL PONDWEED |
| POTAMOGETON ZOSTERIFORMIS | FLATSTEM PONDWEED |
| PUCCINELLIA PALLIDA | PALE MANNAGRASS |
| PYCNANTHEMUM TORREI | TORREY'S MOUNTAIN-MINT |
| PYCNANTHEMUM VERTICILLATUM | WHORLED MOUNTAIN-MINT |
| PYROLA SECUNDA | ONE-SIDED PYROLA |
| PYROLA VIRENS | GREENISH-FLOWERED PYROLA |
| RANUNCULUS AMBIGENS | WATER-PLANTAIN SPEARWORT |
| RANUNCULUS FLABELLARIS | YELLOW WATER-CROWFOOT |
| RANUNCULUS HEDERACEUS | LONG-STALKED CROWFOOT |
| RHYNCHOSPORA CEPHALANTHA | CAPITATE BEAKRUSH |
| RHYNCHOSPORA CORNICULATA | SHORT-BRISTLED HORNEDRUSH |
| RHYNCHOSPORA GLOBULARIS | GRASS-LIKE BEAKRUSH |
| RHYNCHOSPORA GLOMERATA | CLUSTERED BEAKRUSH |
| RHYNCHOSPORA KNEISKERNII | KNEISKERN'S BEAKRUSH |
| RHYNCHOSPORA MICROCEPHALA | TINY-HEADED BEAKRUSH |
| ROSA SETIGERA | PRAIRIE ROSE |
| ROTALA RAMOSIOR | TOOTH-CUP |
| SAGITTARIA ENGELMANNIANA | ENGELMANN'S ARROWHEAD |
| SAGITTARIA LONGIROSTRA | LONG-BEAKED ARROWHEAD |
| SALIX TRISTIS | DWARF PRAIRIE WILLOW |
| SARRACENIA PURPUREA | NORTHERN PITCHER-PLANT |
| SCIRPUS ACUTUS | HARD-STEM BULLRUSH |
| SCIRPUS SMITHII | SMITH'S CLUBRUSH |
| SCLERIA RETICULARIS | RETICULATED NUTRUSH |
| SCUTELLARIA PARVULA | SMALL SKULLCAP |
| SENECIO ANONYMUS | SMALL'S RAGWORT |
| SILENE NIVEA | SNOWY CAMPION |
| SMILAX PSEUDO-CHINA | HALBERD-LEAVED GREENBRIER |
| SOLIDAGO SPECIOSA | SHOWY GOLDENROD |
| STACHYS CORDATA | NUTTALL'S HEDGE-NETTLE |
| STENANTHIUM GRAMINEUM | FEATHERBELLS |
| TALINUM TERETIFOLIUM | FAMEFLOWER |
| TOFIELDIA RACEMOSA | COASTAL FALSE ASPHODEL |
| TRIOSTEUM ANGUSTIFOLIUM | NARROW-LEAVED HORSE-GENTIAN |
| VITIS CINEREA | GRAYBARK |
| VITIS RUPESTRIS | SAND GRAPE |

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR SAINT MARY'S COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AMMANNIA LATIFOLIA | KOEHNE'S AMMANNIA |
| ARNICA ACAULIS | LEOPARD'S-BANE |
| ASTER CONCOLOR | SILVERY ASTER |
| CAREX BUXBAUMII | BUXBAUM'S SEDGE |
| CAREX LANUGINOSA | WOOLLY SEDGE |
| CAREX LOUISIANICA | LOUISIANA SEDGE |
| CAREX SEORSA | WEAK STELLATE SEDGE |
| CENTROSEMA VIRGINIANUM | SPURRED BUTTERFLY-PEA |
| CHELONE OBLIQUA | RED TURTLEHEAD |
| CUSCUTA CORYLI | HAZEL DODDER |
| CYPERUS TENUIFOLIUS | THINLEAF FLATSEDGE |
| ELEOCHARIS ALBIDA | SALTMARSH SPIKERUSH |
| ELEPHANTOPUS TOMENTOSUS | TOBACCOWEED |
| GALACTIA VOLUBILIS | DOWNY MILK PEA |
| GRATIOLA VISCIDULA | SHORT'S HEDGE-HYSSOP |
| HYPERICUM GYMNANTHUM | CLASPING-LEAVED ST. JOHN'S-WORT |
| JUNCUS BRACHYCARPUS | SHORT-FRUITED RUSH |
| LEPTOCHLOA FASCICULARIS | LONG-AWNED DIPLACHNE |
| LIMONIUM NASHII | NASH'S SEA LAVENDER |
| LISTERA AUSTRALIS | SOUTHERN TWAYBLADE |
| PILEA FONTANA | COOLWORT |
| POLYGONUM RAMOSISSIMUM | BUSHY KNOTWEED |
| POTAMOGETON PERFOLIATUS | CLASPING-LEAVED PONDWEED |
| RHYNCHOSPORA GLOMERATA | CLUSTERED BEAKRUSH |
| ROTALA RAMOSIOR | TOOTH-CUP |
| SENECIO ANONYMUS | SMALL'S RAGWORT |
| STACHYS ASPERA | ROUGH HEDGE-NETTLE |
| UTRICULARIA INFLATA | SWOLLEN BLADDERWORT |

## EXPLANATION OF PLANT CHARACTERIZATION ABSTRACT FIELDS

ELCODE. An internal code of the Maryland Natural Heritage Program (NHP)

SRANK. State rank of a plant's biological rarity assigned by the NHP

- A1 = in imminent danger of extinction throughout the world
- A2 = threatened globally, i.e., in less danger of extinction than A1
- A3 = rare nationally; not as yet threatened with extinction
- B1 = in danger of extinction in Maryland, and rare throughout all or most areas of surrounding states
- B2 = in danger of extinction in Maryland (1-5 extant populations), but not rare in surrounding states
- B3 = in danger of extinction in Maryland (fewer than 10 populations); found in a wider range of habitats, or have a broader distribution than B2
- C = populations are uncommon, local or seriously declining
- XN = known to occur in surrounding states within 2 counties of Maryland, but not yet recorded for the State
- /U = present status unknown, unconfirmed Maryland record, or questionable taxonomy
- /X = a population has not been found or reported in Maryland since 1950
- * = under review for federal listing as Endangered or Threatened (B83FWS01MD)
- + = currently on state and/or federal Endangered and Threatened Species List

PROTECTION STATUS. Assigned by the Maryland Department of Natural Resources for legal protection pursuant to COMAR 08.03.08, Endangered and Threatened Species Regulations (Maryland Register, Vol. 14, Issue 6. Friday, March 13, 1987)

- E = "Endangered." Any species whose continued existence as a viable component of the State's flora or fauna is determined to be in jeopardy
- T = "Threatened." Any species of flora or fauna which appears likely, within the forseeable future, to become endangered
- EE = "Endangered Extirpated." Any species that was once a viable component of the flora or fauna of the State but for which no naturally occurring population is known to exist in the State. Most of these species have not been recorded in Maryland since 1950.

NAME. Scientific name of the species

TAXONOMIC COMMENT. Used for identifying taxa with questionable systematic status, and for listing synonyms as given in "Threatened and Endangered Plants and Animals of Maryland" (Maryland Natural Heritage Program, 1984 (B84NOR01MD)) and "A Synonymized Checklist of the Vascular Flora of the United States, Canada and Greenland" (Kartesz and Kartesz, 1980 (B80KAR01MD))

COMMON NAME. The colloquial name of the species as listed in the NHP Element Tracking Database and "Threatened and Endangered Plants and Animals of Maryland" (B84NOR01MD)

FAMILY. The taxonomic family as listed in Kartesz and Kartesz, 1980 (B80KAR01MD)

HABIT. Life span and growth form given in scientific articles and floras

PHENOLOGY. Flowering and/or fruiting times were based on at least two floristic manuals whenever possible. When necessary, the phenological period was adjusted to reflect the growing season in Maryland. For example, dates given by Radford, et. al. in "Manual of the Vascular Flora of the Carolinas" (B68RAD01MD) were shortened by 1-2 weeks at the beginning and end of the season. Likewise, dates given by Hough in "New Jersey Wild Plants" (B83HOU01MD) were adjusted to reflect Maryland's longer season compared to New Jersey.

SOURCES. References are arranged alpha-numerically by computer code in the bibliography following the Plant Characterization Abstracts. These codes are assigned by the NHP.

SEARCH IMAGE. The macroscopic plant characters most helpful in the field for distinguishing a species from similar species. NHP botanists used herbarium specimens, plant descriptions in various floras, and field experience to determine the most outstanding characters.

GENERAL HABITAT TYPES. Checkoff for habitat types that are typically occupied by the species, as found in the floras, journal articles, and NHP Element Occurrence Database

INDICATOR STATUS. Indicator status designates the occurrence percentage of a given species in wetlands or uplands throughout its range in Maryland, and is based upon "Vascular Plant Species Occurring in Maryland Wetlands" by Dawson and Burke, Maryland Department of Natural Resources (B85DAW01MD).

OBL = Obligate (greater than 99%)
FACW = Facultative Wetland (66-99%)
FAC = Facultative (33-66%)

FACU = Facultative Upland (1-33%)
DRA = Drawdown (typically found in wetlands during their drawdown phase)

PRIMARY HABITAT. Habitats in which a species occurs most frequently. "NHP" indicates that the information was obtained from the NHP Element Occurrence Database and NHP botanists.

SUBSTRATES. This information was obtained from the NHP Element Occurrence Database, floras, and botanists of the Natural Heritage Program and indicates the surface on or in which a plant grows.

SECONDARY HABITATS. All habitats given in floras and journals were placed in this field for completeness.

PHYSIOGRAPHIC DISTRIBUTION. Ecoregions in the State. Although some coastal plain species may occur in other regions, only the UC and LC fields were marked for this report. Species occurrence in a non-coastal plain county can be obtained from the County Distribution section.

| | |
|---|---|
| AP = Allegany Plateau | PD = Piedmont |
| RV = Ridge & Valley | UC = Upper Coastal Plain |
| BR = Blue Ridge | LC = Lower Coastal Plain |

COUNTY DISTRIBUTION. Taken from NHP Element Occurrence Log Sheets which have the location of all occurrences recorded in the State

| | | |
|---|---|---|
| CE = Cecil | HA = Harford | MO = Montgomery |
| KE = Kent | BA = Baltimore | HO = Howard |
| QA = Queen Anne | AA = Anne Arundel | CL = Carroll |
| CN = Caroline | PG = Prince George's | FR = Frederick |
| TA = Talbot | CT = Calvert | WA = Washington |
| DO = Dorchester | CH = Charles | AL = Allegany |
| WI = Wicomico | SM = Saint Mary's | GA = Garrett |
| SO = Somerset | | |
| WO = Worcester | | |

NOTE: If no information is given in the primary habitat AND county distribution fields, the species is predicted to be on the Coaatal Plain, but has not been found yet.

GENERAL COMMENTS. Additional information regarding distribution, phenology, morphology, etc. useful in identifying and locating species

LAST LIT. SEARCH:BIO PREV: This space is reserved for the date of the next Biosis Previews search. For this study, Biosis Previews was searched for the period 1969-August 1986.

FORM FILLED: Date and initials of person entering data

UPDATE: Date and initials of person making changes in data

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPAP01010 SRANK: B3 PROTECTION STATUS:

NAME: ADLUMIA FUNGOSA

TAXONOMIC COMMENT:

COMMON NAME: CLIMBING FUMITORY
FAMILY: PAPAVERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL Y | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? N
IF NO, WHY? VINE WITH DISTINCTIVE LEAVES

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ROCKY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ADLUMIA FUNGOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY BANKS OF THE BRANDYWINE CREEK (1); WELL-DRAINED, MOIST ROCKY SOIL OF UPLAND WOODS ON SLOPES AND ROCK OUTCROPS (2)

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB04080 SRANK: PROTECTION STATUS: E

NAME: AESCHYNOMENE VIRGINICA

TAXONOMIC COMMENT:

COMMON NAME: SENSITIVE JOINT-VETCH
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS 1 CM. LONG OR MORE; FRUITING STIPE 1.2 CM. LONG OR MORE
LEAFLETS 10 OR MORE (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
FRESH AND BRACKISH INTERTIDAL ZONE (1)

SOURCES: A80FER01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: AESCHYNOMENE VIRGINICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RIVER BANKS, SWAMPS, TIDAL MARSHES (1) MUDFLATS(2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH Y | AL | |
| WI Y | SM | GA | |
| SO Y | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
EASILY OVERLOOKED AMONG TALL PLANTS OF UPPER TIDAL SHORES AND MARSHES. MUD, SAND AND PEAT SUBSTRATES. ASSOCIATED WITH PELTANDRA, PONTEDERIA, SAGITTARIA, ZIZANIA, SCIRPUS, DULICHIUM, ACORUS, TYPHA, SPARTINA. (A80FER01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR01010 SRANK: PROTECTION STATUS: E

NAME: AGALINIS ACUTA

TAXONOMIC COMMENT: SYN=GERARDIA ACUTA

COMMON NAME: SANDPLAIN GERARDIA
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGALINIS ACUTA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, SANDY SOIL (1)

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
CHROMOSOME NUMBER IN CANNE. (A84CAN01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR01060 SRANK: B1 PROTECTION STATUS:

NAME: AGALINIS DECEMLOBA

TAXONOMIC COMMENT: SYN=GERARDIA DECEMLOBA

COMMON NAME: BLUE RIDGE FALSE-FOXGLOVE
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 3 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES LINEAR TO FILIFORM; PEDICELS LONGER THAN CALYX TUBE; COROLLA THROAT WITH 2 YELLOW LINES (KM,WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY FIELDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGALINIS DECEMLOBA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY CLAY AND SANDS OF WOODLAND MARGINS.(1)

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR01090 SRANK: PROTECTION STATUS: E

NAME: AGALINIS FASCICULATA

TAXONOMIC COMMENT: SYN=GERARDIA FASCICULATA

COMMON NAME: --
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES FASCICLED; STEM SCABROUS;PEDICELS SHORTER THAN CALYX TUBE; COROLLA THROAT WITH 2 YELLOW LINES. (KM, WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SALT MARSH; SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGALINIS FASCICULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDHILLS, SAVANNAHS, AND ROADSIDES (1); DRY TO MOIST SILICEOUS OR ARGILLACEOUS SOILS, DUNE-HOLLOWS, TIDAL MARSH, ETC. (2)

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE Y | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR010L0 SRANK: B2 PROTECTION STATUS:

NAME: AGALINIS OBTUSIFOLIA

TAXONOMIC COMMENT: SYN=GERARDIA OBTUSIFOLIA

COMMON NAME:
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: PEDICELS LONGER THAN CALYX TUBE; COROLLA THROAT LACKING YELLOW LINES OR FAINT; LEAVES LINEAR-SPATULATE. (KM, WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
GRASSY AREAS AND ROADSIDES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGALINIS OBTUSIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
GRASSLANDS, WASTE PLACES, PINE WOODS AND SAVANNAHS (1); DRY TO MOIST SILICEOUS OR ARGILLACEOUS PINELANDS, THICKETS AND OPENINGS OF COASTAL PLAIN (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH Y | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR010S0 SRANK: PROTECTION STATUS: E

NAME: AGALINIS SETACEA

TAXONOMIC COMMENT: SYN=GERARDIA SETACEA

COMMON NAME: THREAD-LEAVED GERARDIA
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 3 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PEDICEL LONGER THAN CALYX TUBE; COROLLA THROAT LANOSE WITHIN. (KM,WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ROADSIDES AND SANDY AREAS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGALINIS SETACEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDHILLS, WOODLANDS, FIELDS AND ROADSIDES. (1)

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN Y | PG Y | FR | |
| TA Y | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: AGALINIS TENELLA

TAXONOMIC COMMENT: SYN=GERARDIA TENELLA

COMMON NAME:
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: PEDICEL LONGER THAN CALYX TUBE; COROLLA THROAT WITH 2 YELLOW LINES; COROLLA LOBES ENTIRE. (KM,WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGALINIS TENELLA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PINE SAVANNAHS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-03-13 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS030A0 SRANK: B2 PROTECTION STATUS:

NAME: AGRIMONIA STRIATA

TAXONOMIC COMMENT:

COMMON NAME: WOODLAND AGRIMONY
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83H0U01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
THICKETS AND WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGRIMONIA STRIATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THICKETS AND BORDERS OF WOODS (1); DRY OR MOIST WOODS (2); ROADSIDES (3).

SOURCES: B50FER01MD B63GLE01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO Y | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS03050 SRANK: B2 PROTECTION STATUS:

NAME: AGRIMONIA MICROCARPA

TAXONOMIC COMMENT:

COMMON NAME: SMALL-FRUITED AGRIMONY
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES IN 3 WELL-DEVELOPED LEAFLETS (NOT 5 OR MORE), VELVETY-PUBESCENT BENEATH; INFLOR. AXIS FINELY-DENSELY PUBESCENT; EGLANDULAR (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ROADSIDE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGRIMONIA MICROCARPA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO Y | |
| QA | AA Y | CL | |
| CN | PG | FR Y | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
APPEARS TO BE A HYBRID; HAS SOME A. ROSTELLATA CHARACTERS AND IS NOT TYPICAL ACCORDING TO MANUAL KEYS. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM030E0 SRANK: B2 PROTECTION STATUS:

NAME: AGASTACHE SCROPHULARIIFOLIA

TAXONOMIC COMMENT: SYN=A. SCROPHULARIAEFOLIA

COMMON NAME: PURPLE GIANT HYSSOP
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AGASTACHE SCROPHULARIIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLAND BORDERS AND MEADOWS (1); RICH SOIL OF USUALLY UPLAND WOODS AND SHADED EDGES, GRASSY PLACES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLIL01010 SRANK: PROTECTION STATUS: EE

NAME: ALETRIS AUREA

TAXONOMIC COMMENT: DIFFERS FROM A. FARINOSA, WHITE-FLOWERING SPECIES THAT IS LOCALLY COMMIN IN MD, BY YELLOW INFLORESCENCE

COMMON NAME: GOLDEN COLICROOT
FAMILY: LILIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: BASAL ROSETTE OF LEAVES DISTINCTIVE TO GENUS (DDB)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WET SANDS AND PEAT OPENINGS IN SCRUB-SHRUB OR EMERGENT NONTDIAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ALETRIS AUREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW GRASSY FLATWOODS AND SAVANNAS (1); BORDERS OF SAVANNAHS AND POCOSINS (2); DAMP PINE BARRENS AND BOGS (3).

SOURCES: A78WAR01MD B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
TAXONOMIC TREATMENT IN WARD. (A78WAR01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS05090 SRANK: B2 PROTECTION STATUS:

NAME: AMELANCHIER OBOVALIS

TAXONOMIC COMMENT:

COMMON NAME: COASTAL JUNEBERRY
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 3 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: OVARY GLABROUS AT SUMMIT; OTHERWISE SIMILAR TO A. SPICATA. (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:
THICKETS AND ROADSIDES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AMELANCHIER OBOVALIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THICKETS (1); POCOSINS, BAYS, LOW WOODS AND SAVANNAHS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS050D0 SRANK: B2 PROTECTION STATUS:

NAME: AMELANCHIER SPICATA

TAXONOMIC COMMENT: SYN=A. STOLONIFERA

COMMON NAME: RUNNING JUNEBERRY
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 1 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: OVARY PUBESCENT AT SUMMIT; OTHERWISE SIMIALR TO A. OBOVALIS. (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
UPLAND WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AMELANCHIER SPICATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POCOSINS, SANDY OR ROCKY UPLAND WOODS. (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO Y | |
| QA Y | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA Y | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLYT01030 SRANK: B2 PROTECTION STATUS:

NAME: AMMANNIA LATIFOLIA

TAXONOMIC COMMENT: SYN=A. TERES

COMMON NAME: KOEHNE'S AMMANNIA
FAMILY: LYTHRACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: PETALS 1MM LONG; FLOWERS IN AXILLARY CLUSTERS (CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BRACKISH MARSHES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AMMANNIA LATIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BRACKISH MARSHES (1); SWAMPS AND TIDAL MARSHES (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE Y | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH Y | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: - - ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDVIT01010 SRANK: B2/U PROTECTION STATUS:

NAME: AMPELOPSIS ARBOREA

TAXONOMIC COMMENT:

COMMON NAME: PEPPER-VINE
FAMILY: VITACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AMPELOPSIS ARBOREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS AND MARSHES (1); SWAMPY WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: AMPELOPSIS CORDATA

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: VITACEAE

HABIT: ANNUAL HERB VINE Y EVERGREEN
BIENNIAL SHRUB
PERENNIAL TREE

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
FLOODPLAINS AND SWAMPS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AMPELOPSIS CORDATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); RICH WOODS AND BOTTOMS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOF010 SRANK: B3 PROTECTION STATUS:

NAME: ANAPHALIS MARGARITACEA

TAXONOMIC COMMENT:

COMMON NAME: PEARLY EVERLASTING
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
DRY FIELDS AND HILLOCKS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE Y |
| | | PEAT | IGNEOUS |

PAGE 2: ANAPHALIS MARGARITACEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
GRAVELLY OR SANDY SOILS AND ALONG STREAMS (1); IN DRY FIELDS AND ON HILLSIDES (2); OPEN, CHIEFLY DRY, SANDY OR GRAVELLY GROUND OF PASTURES, ROADSIDES, WASTE PLACES (3).

SOURCES: B50FER01MD B46TAT01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FLOWERS MOSTLY IN SEPTEMBER. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; : 01-83-01

FORM FILLED: 87-04-12 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA0C0G0 SRANK: C PROTECTION STATUS:

NAME: ANDROPOGON TERNARIUS

TAXONOMIC COMMENT:

COMMON NAME: SILVER BLUESTEM
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ANDROPOGON TERNARIUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, SANDY SOIL (1); FIELDS, DITCHES AND OPEN WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRAN04020 SRANK: PROTECTION STATUS: EE

NAME: ANEMONE CANADENSIS

TAXONOMIC COMMENT:

COMMON NAME: CANADA ANEMONE
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B63GLE01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SANDY ALLUVIAL DEPOSITS OVER ROCKY SHORELINES OF LARGE RIVER
S (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ANEMONE CANADENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY SHORES, DAMP PRAIRIES AND WET MEADOWS (1); LOW, MOIST GROUND OF WATERSIDES, ALLUVIUM, MEADOWS (2).

SOURCES: B63GLE01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAPI07040 SRANK: PROTECTION STATUS: EE

NAME: ANGELICA ATROPURPUREA

TAXONOMIC COMMENT:

COMMON NAME: GREAT ANGELICA
FAMILY: APIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
SEEPS AND OTHER PARTIALLY OPEN FORESTED WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ANGELICA ATROPURPUREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET BANKS OR DITCHES (1); RICH THICKETS, BOTTOMLANDS, SWAMPS ETC. (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOHOQO SRANK: B2 PROTECTION STATUS: T

NAME: ANTENNARIA SOLITARIA

TAXONOMIC COMMENT:

COMMON NAME: SINGLE-HEADED PUSSYTOES
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: LEAVES OF BASAL ROSETTE > 1.5 CM.; HEADS SOLITARY (CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
MESIC DECIDUOUS WOODLANDS (1,2)

SOURCES: A81BAY01MD A85BAY01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ANTENNARIA SOLITARIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODED SLOPES OR, INFREQUENTLY, IN ALLUVIAL WOODS

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN Y | PG Y | FR | |
| TA Y | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
HYBRIDIZES WITH A. PLANTAGINIFOLIA; DIOECIOUS. (A82BAY02MD)
OCCURS IN APPALACHIAN REGION SOUTH OF THE TERMINAL MARGIN OF THE WISCONSIN GLACIATION. (A86BAY01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAPO06030 SRANK: B2 PROTECTION STATUS:

NAME: APOCYNUM SIBIRICUM

TAXONOMIC COMMENT:

COMMON NAME: CLASPING-LEAVED DOGBANE
FAMILY: APOCYNACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: COROLLA MILK-WHITE (NOT PINK OR PINK-STRIPED); LEAVES OF PRIMARY AXIS SESSILE OR NEARLY SO (PETIOLE UP TO 3 MM); CALYX LOBE EQUAL TO OR LONGER THAN COROLLA (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:
SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: APOCYNUM SIBIRICUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY OR GRAVELLY SOIL, ALONG STREAM BANKS(1);

SOURCES: B5OFER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE Y | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBRA06170 SRANK: B1 PROTECTION STATUS:

NAME: ARABIS MISSOURIENSIS

TAXONOMIC COMMENT:

COMMON NAME: MISSOURI ROCKCRESS
FAMILY: BRASSICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL Y | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARABIS MISSOURIENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CIRCUMNEUTRAL BLUFFS, LEDGES OR ROCKY WOODS (1); XERIC SLATE BLUFF; FLAT GRANITE OUTCROPS (2).

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA Y | HO |
| QA | AA | CL |
| CN | PG | FR |
| TA | CT | WA |
| DO | CH | AL |
| WI | SM | GA |
| SO | | |
| WO | | |

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-06-29 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC04010 SRANK: PROTECTION STATUS: EE

NAME: ARETHUSA BULBOSA

TAXONOMIC COMMENT:

COMMON NAME: ARETHUSA
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: A72THI01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG

SOURCES: A75HEN02MD A72THI01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ARETHUSA BULBOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET MEADOWS AND WOODS (1); MOSSY, OPEN PINELAND BOGS; SWAMPY GRASSLANDS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY, LINE DRAWING IN HENRY. NEWFOUNDLAND TO MINN. SOUTH TO S.C. AND LA. SOLITARY LEAF AND SOLITARY FLOWER. CORMS EMBEDDED IN SPHAGNUM. (A75HEN02MD) VEG. REPRO. BY BULBOUS CORM WITH FLESHY ROOTS. FLORAL CHARACTERS, PHOTO, POLLINATION. (A72THIO 1MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMARA04020 SRANK: C PROTECTION STATUS:

NAME: ARISAEMA DRACONTIUM

TAXONOMIC COMMENT:

COMMON NAME: GREEN DRAGON
FAMILY: ARACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? N
IF NO, WHY? LEAF SHAPE AND ARRANGEMENT UNIQUE

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 9 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 9 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARISAEMA DRACONTIUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW GROUND (1); LOW WOODS (2); BASIC ALLUVIAL SOILS (3).

SOURCES: B46TAT01MD B68RAD01MD A83RIE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; ; - -

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA0K0A0 SRANK: B2 PROTECTION STATUS:

NAME: ARISTIDA CURTISSII

TAXONOMIC COMMENT: SYN=A. DICHOTOMA VAR. CURTISSII

COMMON NAME: CURTISS' THREE-AWN
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY CLEARING BORDERING PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARISTIDA CURTISSII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROADSIDES AND ERODED FIELDS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA Y | |
| DO | CH Y | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA0K0L0 SRANK: B2 PROTECTION STATUS: E

NAME: ARISTIDA LANOSA

TAXONOMIC COMMENT:

COMMON NAME: WOOLLY THREE-AWN
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LOWER SHEATHS WOOLY OR LANOSE; CENTRAL AWN, WHEN DRY, BENT AT BASE AND MAY BE TWISTED; OTHER AWNS DIVERGENT AND SHORTER; PERENNIAL, FROM HARD, KNOTTY BASE. (AR, KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
PINE BARRENS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARISTIDA LANOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, SANDY FIELDS AND WOODS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO Y | |
| QA | AA | CL | |
| CN Y | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
CHARACTERIZED BY LANOSE OR FLOCCOSE SHEATHS AND TUFTS OF HAIR AT THE PANICLE NODES, AND STRIKINGLY INVERSE GLUMES (FIRST LONGER THAN SECOND); SUMMARY OF MORPHOLOGICAL FEATURES AND PHOTOGRAPH IN ALLRED. (A85ALL01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDARI010HO SRANK: C PROTECTION STATUS:

NAME: ARISTOLOCHIA SERPENTARIA

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA SNAKEROOT
FAMILY: ARISTOLOCHIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARISTOLOCHIA SERPENTARIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS AND SANDY PINE WOODS (1); MIXED DECIDUOUS FORESTS, WOODLAND MARGINS AND STREAM BANKS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBRA07010 SRANK: B1/X PROTECTION STATUS: EE

NAME: ARMORACIA AQUATICA

TAXONOMIC COMMENT:

COMMON NAME: LAKE CRESS
FAMILY: BRASSICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARMORACIA AQUATICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LAKES AND QUIET STREAMS(1);

SOURCES: B5OFER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOQ010 SRANK: B2 PROTECTION STATUS:

NAME: ARNICA ACAULIS

TAXONOMIC COMMENT:

COMMON NAME: LEOPARD'S-BANE
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: BASAL LEAVES RHOMBIC-OVAL, SESSILE OR WITH SHORT, BROAD PETIOLE
5-7 RIBBED (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
PINE-OAK WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARNICA ACAULIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS AND ROADSIDES (1); SAVANNAHS, PINE-BARRENS AND OPEN WOODLANDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS06030 SRANK: C PROTECTION STATUS:

NAME: ARONIA PRUNIFOLIA

TAXONOMIC COMMENT: SYN=PYRUS FLORIBUNDA

COMMON NAME: PURPLE CHOKEBERRY
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
MOIST WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ARONIA PRUNIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THICKETS AND SWAMPY WOODS (1); PEATS, LOW THICKETS, WET TO DRY CLEARINGS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-03 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOAOP010 SRANK: PROTECTION STATUS: T

NAME: ARUNDINARIA GIGANTEA

TAXONOMIC COMMENT:

COMMON NAME: GIANT CANE
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: ONE SPECIES IN MD. SPIKELETS MANY-FLOWERED AND PEDICELED IN PANICLE. (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
VARIABLE: WETLAND, WOODED SLOPE, SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ARUNDINARIA GIGANTEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POWERLINE (1); BOGS, LOW WOODS, SAVANNAHS, AND DRY WOODS (2)

SOURCES: A82STA01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE Y | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
TAXONOMIC TREATMENT IN MCCLURE. EXCELLENT LINE DRAWINGS. FROST TOLERANT. (A73MCC01MD)
ASSOCIATED SMALL MAMMALS IN STANKAVICH AND ROSE. (A82STA01MD)
APPEARS TO BE STERILE IN N.J. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDARI03090 SRANK: PROTECTION STATUS: E

NAME: ASARUM VIRGINICUM

TAXONOMIC COMMENT: SYN=HEXASTYLIS VIRGINICA

COMMON NAME: VIRGINIA HEARTLEAF
FAMILY: ARISTOLOCHIACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:
SANDY PINE-SHADED SLOPE; RICH HOLLOW SURROUNDING HERON COLON Y (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ASARUM VIRGINICUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DECIDUOUS FORESTS AND ROCKY SLOPES (1); ACID SOILS OF SANDY, PEATY OR ROCKY WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASC021MO SRANK: PROTECTION STATUS: E

NAME: ASCLEPIAS RUBRA

TAXONOMIC COMMENT:

COMMON NAME: RED MILKWEED
FAMILY: ASCLEPIADACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: A83JOH01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES SESSILE TO SUB-SESSILE, BROAD AT BASE, ROUNDED OR SUBCORDATE; HORNS NOT SURPASSING HOOD (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOGS, SWAMPS, SWALES

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ASCLEPIAS RUBRA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POCOSINS AND SAVANNAHS

SOURCES: A83JOH01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA Y | HO |
| QA | AA | CL |
| CN Y | PG Y | FR |
| TA | CT | WA |
| DO | CH | AL |
| WI | SM | GA |
| SO | | |
| WO Y | | |

ALL

COMMENTS:

GENERAL COMMENTS:
COASTAL PLAIN FROM NEW JERSEY TO TEXAS; TAXONOMIC TREATMENT AND DISTRIBUTION IN VIRGINIA. (A83JOH01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASC021JO SRANK: C PROTECTION STATUS:

NAME: ASCLEPIAS PURPURASCENS

TAXONOMIC COMMENT:

COMMON NAME: PURPLE MILKWEED
FAMILY: ASCLEPIADACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASCLEPIAS PURPURASCENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODS AND FIELDS AND ON ROADSIDES (1); SWAMP FORESTS AND ALLUVIAL WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: - - ; : - -

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASC02240 SRANK: C PROTECTION STATUS:

NAME: ASCLEPIAS VERTICILLATA

TAXONOMIC COMMENT:

COMMON NAME: WHORLED MILKWEED
FAMILY: ASCLEPIADACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC | NEUTRAL Y | LOAM | SHALE Y |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASCLEPIAS VERTICILLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SERPENTINE SOIL AND SANDY BANKS (1); DRY, OPEN WOODS, SANDHILLS, ROCKY SLOPES AND ROADSIDES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV Y BR PD Y UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPASP02050 SRANK: PROTECTION STATUS: EE

NAME: ASPLENIUM BRADLEYI

TAXONOMIC COMMENT:

COMMON NAME: BRADLEY'S SPLEENWORT
FAMILY: ASPLENIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ACIDIC ROCKS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASPLENIUM BRADLEYI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ACIDIC ROCKS (1); IN ACID SOIL OF EXPOSED ROCK CREVICES, CLIFFS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPASP02100 SRANK: B3 PROTECTION STATUS:

NAME: ASPLENIUM PINNATIFIDUM

TAXONOMIC COMMENT:

COMMON NAME: LOBED SPLEENWORT
FAMILY: ASPLENIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ACIDIC ROCKS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASPLENIUM PINNATIFIDUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ACIDIC ROCKS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOTOMO SRANK: PROTECTION STATUS: EE

NAME: ASTER CONCOLOR

TAXONOMIC COMMENT:

COMMON NAME: SILVERY ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY SAND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASTER CONCOLOR

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY SANDY SOIL (1); WOODLANDS, THICKETS, AND OLD FIELDS (2); OFTEN AMONG PINES (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOTOTO SRANK: PROTECTION STATUS: E

NAME: ASTER DEPAUPERATUS

TAXONOMIC COMMENT:

COMMON NAME: SERPENTINE ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: A80HAR01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SERPENTINE BARREN ENDEMIC

SOURCES: A80HAR01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE Y |
| MESIC | NEUTRAL Y | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASTER DEPAUPERATUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:

SOURCES:
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
POPULATION ECOLOGY IN HART. (ABOHARO1MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: ASTER GRANDIFLORUS

TAXONOMIC COMMENT:

COMMON NAME: LARGE-FLOWERED ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASTER GRANDIFLORUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS AND OLD FIELDS (1);

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOT1JO SRANK: C PROTECTION STATUS:

NAME: ASTER INFIRMUS

TAXONOMIC COMMENT:

COMMON NAME: CORNEL-LEAF ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASTER INFIRMUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, OPEN WOODS (1); WOODLANDS AND WOODED ROAD BANKS (2); ROCKY SLOPES (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOT1Z0 SRANK: B1/U PROTECTION STATUS:

NAME: ASTER NEMORALIS

TAXONOMIC COMMENT:

COMMON NAME: BOG ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
BOG; INUNDATED CLAY/SAND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ASTER NEMORALIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SPHAGNOUS BOGS, PEATY SHORES, POND-MARGINS (1); LOW, SANDY, WET GROUND OF PEAT BOGS AND EDGES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOT2G0 SRANK: B1 PROTECTION STATUS:

NAME: ASTER PRAEALTUS

TAXONOMIC COMMENT:

COMMON NAME: WILLOW ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
FRESH PART OF TIDAL MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ASTER PRAEALTUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROADSIDE THICKET, DAMP THICKET AT EDGE OF OLD FIELD (1); LOW THICKETS, MEADOWS AND PRAIRIES (2).

SOURCES: A85SNY01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OFTEN CONFUSED WITH A. SIMPLEX. (A85SNY01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOT2P0 SRANK: B2 PROTECTION STATUS:

NAME: ASTER RADULA

TAXONOMIC COMMENT:

COMMON NAME: ROUGH-LEAVED ASTER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
ROCKY, SPRINGY THICKET (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ASTER RADULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND ROAD DITCHES (1); LOW WOODS, SWAMPS AND BOGS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPASPOBOBO SRANK: PROTECTION STATUS: T

NAME: ATHYRIUM PYCNOCARPON

TAXONOMIC COMMENT:

COMMON NAME: GLADE FERN
FAMILY: ASPLENIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
MOIST, SHADY RAVINE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM Y | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ATHYRIUM PYCNOCARPON

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH LOAMY WOODS AND FORESTED SEEPAGE SLOPES (1); RICH, COOL, MOIST USUALLY CIRCUMNEUTRAL SOILS OF MOIST WOODS, ALLUVIUM, RAVINES, TALUS, SEEPAGE SLOPES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA Y | |
| DO | CH Y | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
PRESENT KNOWN COLONIES INFERTILE. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCHE04040 SRANK: C PROTECTION STATUS:

NAME: ATRIPLEX ARENARIA

TAXONOMIC COMMENT:

COMMON NAME: SEABEACH ORACH
FAMILY: CHENOPODIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ATRIPLEX ARENARIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ON BEACHES (1); SAND DUNES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPAZ001010 SRANK: B2 PROTECTION STATUS:

NAME: AZOLLA CAROLINIANA

TAXONOMIC COMMENT:

COMMON NAME: MOSQUITO FERN
FAMILY: AZOLLACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| ANNUAL Y | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 9 | JULB 1 | SEPB 9 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PLANTS 0.5-1.0 CM DIAMETER, FREE-FLOATING, OFTEN MATTED, GREEN TO DARK RED (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
PONDS, LAKES, SLUGGISH STREAMS

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: AZOLLA CAROLINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; ;

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR060A0 SRANK: A1/X* PROTECTION STATUS: EE

NAME: BACOPA STRAGULA

TAXONOMIC COMMENT:

COMMON NAME: MAT-FORMING WATER-HYSSOP
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B46TAT01MD
COMMENTS:

SEARCH IMAGE: LEAVES PALMATELY 3-5 NERVED; FLOWERS NOT SUBTENDED BY BRACTS; PEDICELS HARDLY OR NOT LONGER THAN SEPALS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
TIDAL MUDFLAT

SOURCES: A84VAS01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BACOPA STRAGULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDGEN01010 SRANK: C PROTECTION STATUS:

NAME: BARTONIA PANICULATA

TAXONOMIC COMMENT:

COMMON NAME: TWINING BARTONIA
FAMILY: GENTIANACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MOIST SPHAGNUM (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: BARTONIA PANICULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); BOGS, MARSHES AND POCOSINS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBET020F0 SRANK: B2 PROTECTION STATUS:

NAME: BETULA POPULIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: GRAY BIRCH
FAMILY: BETULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 3 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: YOUNG STEMS NON-EXFOLIATING; BLADES < 8 VEINS ON EACH SIDE OF MIDRIB, TRIANGULAR, DOUBLY-SERRATE, TIPS LONG-ACUMINATE; PETIOLE GLABROUS (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
EDGE OF RESERVOIR; GRAVEL QUARRY

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BETULA POPULIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1). DRY AND WELL-DRAINED, MOIST STERILE GROUND OF SWAMP EDGES, DISTURBED SOIL, OLD FIELDS, MIXED WOODS. (2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST18070 SRANK: PROTECTION STATUS: T

NAME: BIDENS BIDENTOIDES

TAXONOMIC COMMENT: SYN=B. MARIANA

COMMON NAME: MARYLAND BUR-MARIGOLD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LVS W/PETIOLES 1-4 CM LONG, LANCEOLATE, SERRATE 4-20 CM LONG; HEADS DISCOID 8-17 MM WIDE, 8-30 FLOWERED (VS MUCH MORE); AWNS 2 1/2 X AS LONG AS BODY (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
FRESH TO SLIGHTLY BRACKISH INTERTIDAL ZONE

SOURCES: A80FER01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BIDENS BIDENTOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:

SOURCES:
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ASSOC W/SCIRPUS PUNGENS, AMARANTHUS CANNABINUS, CYPERUS RIVULARIS, JUNCUS, LINDERNIA, POLYGONUM, SIUM SUAVE, ZIZANIA AQUATICA. GROWS BEST IN MIDDLE TO UPPER PORTION OF INTERTIDAL ZONE GROWS DWARF AND PROSTRATE IN LOWER INTERTIDALZONE.(A80FER01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST180F0 SRANK: . PROTECTION STATUS: E

NAME: BIDENS CORONATA

TAXONOMIC COMMENT:

COMMON NAME: TICKSEED SUNFLOWER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES PINNATIFID, 3-7 LEAFLETS; RAYS > 1 CM LONG; ACHENES 5-10 MM LONG, CILIATE ON MARGINS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
FRESH OR BRACKISH MARSHES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BIDENS CORONATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW PRAIRIES, SWALES, MARSHES, DITCHES, SHORES (1);
BRACKISH MARSHES (2); FRESH OR BRACKISH CONDITIONS (3).

SOURCES: A78BUT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN Y | PG | FR | |
| TA Y | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO Y | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
NATIVE TO EASTERN NORTH AMERICA; ALSO OCCURS MIDWEST.
(A78BUT01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST180L0 SRANK: ? PROTECTION STATUS: E

NAME: BIDENS DISCOIDEA

TAXONOMIC COMMENT:

COMMON NAME: SWAMP BEGGAR-TICKS
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: RAYS ABSENT; INVOLUCRE < 1 CM BROAD (MOSTLY); OUTER BRACTS LEAFY, LONGER THAN INNER, 3-5, NOT CILIATE (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SWAMP

SOURCES: A83ROB01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BIDENS DISCOIDEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL WOODS AND SWAMP FORESTS (1); WET LOW GROUND OF SWAMPS, WATERSIDES AND DUNE HOLLOWS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
FRUITS FLOAT FOR MONTHS; IN MID-SUMMER, SEEDLINGS AT WATER-LEVEL ON STUMPS, LOGS, BARK OF EMERGENT TREES; MAY APPEAR TO BE EPIPHYTES OCCURRING AS A RING OF INDIVIDUALS ON TREE TRUNKS 2-3 FEET ABOVE GROUND; FR. DISPERSAL INFREQUENT. (A83ROB01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST18150 SRANK: PROTECTION STATUS: E

NAME: BIDENS MITIS

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: RAYS PRESENT OR ABSENT; ACHENES < 5 MM LONG; HEADS OFTEN WITH RAYS > 1 CM LONG (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MARSH, SWAMP, EDGE OF CREEK (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BIDENS MITIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BRACKISH OR FRESH WATER MARSHES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST1E010 SRANK: B1 PROTECTION STATUS: E

NAME: BOLTONIA ASTEROIDES

TAXONOMIC COMMENT:

COMMON NAME: ASTER-LIKE BOLTONIA
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS DAISY- OR FLEABANE-LIKE; DISC RAYS WHITE, YELLOW, PINK OR PURPLE; LEAVES LINEAR-OBLANCEOLATE, ENTIRE, ALTERNATE

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
DELMARVA BAY (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: BOLTONIA ASTEROIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FLOODPLAIN FOREST (1); DITCHES, SAVANNAHS, AND MARSHES (2); SANDY TO GRAVELLY OPEN GROUND OF WATERSIDES, SWAMPS, DRIED PONDS, BOGS (3).

SOURCES: A83REE01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA Y | AA | CL | |
| CN Y | PG | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
VAR. DECURRENS ON SILVER MAPLE-COTTONWOOD ISLAND OF ILLINOIS RIVER IN ILLINOIS. (A83REE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST1F020 SRANK: B2/U PROTECTION STATUS: EE

NAME: BORRICHIA FRUTESCENS

TAXONOMIC COMMENT:

COMMON NAME: SEA OX-EYE
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: FLOWER RECEPTACLE FLAT, RAY FLOWERS FERTILE; LEAVES OPPOSITE, CORIACEOUS (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
SALT MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BORRICHIA FRUTESCENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
IN SHALLOW SALT WATER AND ON BORDERS OF SALT MARSHES (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA10060 SRANK: B3 PROTECTION STATUS:

NAME: BOUTELOUA CURTIPENDULA

TAXONOMIC COMMENT:

COMMON NAME: SIDE-OATS GRAMA
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BOUTELOUA CURTIPENDULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY HILLS AND PLAINS (1); CALCAREOUS OR SERPENTINE BARRENS AND OUTCROPS (2).

SOURCES: B50FER01MD A83RIE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA Y | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
MOST FRUIT AND FLOWERS IN AUGUST. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDNYM01010 SRANK: C PROTECTION STATUS:

NAME: BRASENIA SCHREBERI

TAXONOMIC COMMENT:

COMMON NAME: WATERSHIELD
FAMILY: NYMPHAEACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BRASENIA SCHREBERI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND SLOW STREAMS (1,2);

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA151MO SRANK: B1 PROTECTION STATUS:

NAME: BROMUS LATIGLUMIS

TAXONOMIC COMMENT:

COMMON NAME: BROAD-GLUMED BROME
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FIRST GLUME 1-NERVED, 2ND GLUME 3-NERVED; AWNS SHORTER THAN LEMMAS, 2-8 MM LONG; SPIKELETS SHORTER THAN PEDICELS; LEMMAS PUBES. THROUGHOUT; SHEATH DENSELY PUBES. AT SUMMIT.

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ALLUVIAL SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BROMUS LATIGLUMIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET WOODS AND PRAIRIES (1); LOW OR RICH WOODS OVER BASIC ROCKS (2); ALLUVIAL SOIL ALONG STREAMS (3).

SOURCES: A85MCK01MD B68RAD01MD B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
SYNONYMY PROBLEM SUMMARIZED IN MCNEILL. NAME CHANGE SUGGESTED IN MCNEILL (A76MCN01MD) IS ERRONEOUS. (A77MCN01MD) SELF- AND CROSS-POLLINATE. (A85MCK01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA150Z0 SRANK: B1 PROTECTION STATUS:

NAME: BROMUS NOTTOWAYANUS

TAXONOMIC COMMENT:

COMMON NAME: NOTTOWAY'S BROME GRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SLOPES ADJACENT TO FLOODPLAIN OR SEEPS, CIRCUMNEUTRAL SOILS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: BROMUS NOTTOWAYANUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOTTOMLANDS AND RICH WOODS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD Y UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCROB010 SRANK: PROTECTION STATUS: EE

NAME: BUCHNERA AMERICANA

TAXONOMIC COMMENT:

COMMON NAME: BLUE-HEARTS
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: A78BEN01MD B46TAT01MD
COMMENTS:

SEARCH IMAGE: COROLLA SALVERFORM, NEARLY REGULAR, < 2 CM. LONG; LEAVES 3-VEINED, OVATE-LANCEOLATE (VS. LANCEOLATE-ELLIPTIC); STEM SCABROUS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
WET SAND ADJACENT TO EMERGENT ZONE OF NONTIDAL WETLANDS (NHP )

SOURCES:
COMMENTS: NATURAL HABITAT REQUIRED REGULAR DISTURBANCE TO SET BACK SUC CESSION; POWERLINE AREAS SIMULATE DISTURBANCE REGIME NEEDED

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: BUCHNERA AMERICANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGGY CLEARING (1); SANDY WOODLAND OPENINGS (2); MEADOWS AND STREAM MARGINS (3)

SOURCES: A73HAR01MD A78BEN01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD Y UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS: NO CURRENT POPULATIONS KNOWN FOR MARYLAND

GENERAL COMMENTS:
DECLINING THROUGHOUT RANGE

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST1K060 SRANK: PROTECTION STATUS: EE

NAME: CACALIA MUHLENBERGII

TAXONOMIC COMMENT:

COMMON NAME: GREAT INDIAN-PLANTAIN
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CACALIA MUHLENBERGII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS (1); RICH WOODS, THICKETS AND CLEARINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST1K0A0 SRANK: B2 PROTECTION STATUS:

NAME: CACALIA SUAVEOLENS

TAXONOMIC COMMENT:

COMMON NAME: SWEET-SCENTED INDIAN-PLANTAIN
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACU

PRIMARY HABITATS:
WOODS ALONG RIVER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CACALIA SUAVEOLENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET WOODLANDS AND BOGS (1); ALLUVIAL SOIL (2).

SOURCES: B68RAD01MD B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDVER05010 SRANK: B2 PROTECTION STATUS:

NAME: CALLICARPA AMERICANA

TAXONOMIC COMMENT:

COMMON NAME: FRENCH MULBERRY
FAMILY: VERBENACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CALLICARPA AMERICANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PINE WOODS (1); SANDY OR ROCKY WOODLANDS, USUALLY MOIST (2)

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCLL010D0 SRANK: C PROTECTION STATUS:

NAME: CALLITRICHE VERNA

TAXONOMIC COMMENT: SYN=C. PALUSTRIS

COMMON NAME: MARSH WATER-STARWORT
FAMILY: CALLITRICHACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 1 | NOVA 1 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 1 | NOVB 1 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CALLITRICHE VERNA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SHALLOW WATER (1); SPRINGHEADS, RILLS, QUIET WATER AND WET SHORES (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC0C040 SRANK: PROTECTION STATUS: E

NAME: CALOPOGON TUBEROSUS

TAXONOMIC COMMENT: SYN=C. PULCHELLUS

COMMON NAME: GRASS-PINK
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: A72THI01MD B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: INFLORESCENCE 10-45 CM WITH 2-10 FLOWERS (VS POGONIA OPHIOGLOS-SOIDES AND ARETHUSA BULBOSA WITH 1 OR 2); COLOR OF FLOWERS PINK -MAGENTA; FLWS OPEN SUCCESSIVELY OVER A PERIOD OF TIME (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG

SOURCES: A72THI01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CALOPOGON TUBEROSUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROADSIDE, SANDY AREAS (1); BOGS, MEADOWS, SAVANNAHS AND SEEPAGE SLOPES (2).

SOURCES: A72THI01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA Y | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA Y | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
FLORAL CHARACTERS, PHOTOGRAPH, DISTRIBUTION, POLLINATION IN THIEN AND MARCKS. IN MICHIGAN AND WISCONSIN, RARELY DOES CALOPOGON TUBEROSUS OCCUR WITHOUT ARETHUSA BULBOSA AND POGONIA OPHIOGLOSSOIDES; VEGETATIVE REPRODUCTION BY CORM. (A72THI01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCAM020T0 SRANK: B3 PROTECTION STATUS:

NAME: CAMPANULA ROTUNDIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: HAREBELL
FAMILY: CAMPANULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE Y |
| XERIC | BASIC Y | CLAY | LIMESTONE Y |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAMPANULA ROTUNDIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN OR ROCKY BANKS, MEADOWS, SHORES (1); LIMESTONE CLIFFS AND CALCAREOUS SHALE LEDGES (2).

SOURCES: B50FER01MD A83RIE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
A STREET CALCIPHILE. (A83RIE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBRAOKOL0 SRANK: A3* PROTECTION STATUS: E

NAME: CARDAMINE LONGII

TAXONOMIC COMMENT:

COMMON NAME: LONG'S BITTERCRESS
FAMILY: BRASSICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES SIMPLE, RENIFORM, SUBORBICULAR OR RARELY WITH 1 PAIR ROUNDED LEAFLETS; FLOWERS APETALOUS, SUBSESSILE (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
INTERTIDAL MUD (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CARDAMINE LONGII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ESTUARIES CONFLUENT WITH THE CHESAPEAKE BAY (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBRAOKOVO SRANK: C PROTECTION STATUS:

NAME: CARDAMINE PARVIFLORA

TAXONOMIC COMMENT:

COMMON NAME: SMALL-FLOWER BITTER-CRESS
FAMILY: BRASSICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CARDAMINE PARVIFLORA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY WOODS AND SANDY SOIL (1); DRY WOODS, SHADED OR EXPOSED LEDGES AND SANDY SOIL (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBRAOKOZO SRANK: B1 PROTECTION STATUS:

NAME: CARDAMINE PRATENSIS

TAXONOMIC COMMENT:

COMMON NAME: CUCKOOFLOWER
FAMILY: BRASSICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
OPEN AREAS OF FLOOD PLAIN PREDOMINATED BY GRASSES, VINES AND SHRUBS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CARDAMINE PRATENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RIVERINE SHORELINE (1); MEADOWS AND LAWNS (2).

SOURCES: A73B0U01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP030A0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX AGGREGATA

TAXONOMIC COMMENT:

COMMON NAME: GLOMERATE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
GRASSY CLEARING (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX AGGREGATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS, THICKETS AND MEADOWS (1); DRY OR MOIST SOIL OF RICH WOODS AND SHADED EDGES, ALLUVIUM, GRASSY SLOPES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUITS PERSIST TO AUGUST. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03180 SRANK: C PROTECTION STATUS:

NAME: CAREX ATLANTICA

TAXONOMIC COMMENT:

COMMON NAME: PRICKLY BOG SEDGE
FAMILY: CYPERCEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX ATLANTICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS AND LOW WOODS (1); MOSSY OR PEATY SOILS OF BOGS AND SWAMPS (2).

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP031K0 SRANK: PROTECTION STATUS: E

NAME: CAREX BARRATTII

TAXONOMIC COMMENT:

COMMON NAME: BARRATT'S SEDGE
FAMILY: CYPERACEAE

HABIT:

| | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SCALES PURPLISH WITH SCARIOUS MARGINS; PISTILLATE SPIKES 2-5.5 CM LONG, CYLINDRIC, WITH PEDUNCLES. (WT, CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
DELMARVA BAY

SOURCES: A86NAC01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX BARRATTII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); WET, ACIDIC, SANDY GROUND OF PINELAND SWAMPS AND BOGS. (2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA Y | AA Y | CL | |
| CN Y | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
SHADE OR SUN, MOIST TO FLOODED. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03220 SRANK: B2 PROTECTION STATUS:

NAME: CAREX BREVIOR

TAXONOMIC COMMENT:

COMMON NAME: A SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
LOW BORDERS OF WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX BREVIOR

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY OPEN SOIL (1); DRY OPEN ROCKY OR SANDY SOIL OF BANKS, WOODY EDGES, MEADOWS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03260 SRANK: B3 PROTECTION STATUS:

NAME: CAREX BROMOIDES

TAXONOMIC COMMENT:

COMMON NAME: BROME-LIKE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
BOG, SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX BROMOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); RICH, LOW, WET SOIL OF WOODS, SWAMPS, BOGS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03290 SRANK: PROTECTION STATUS: T

NAME: CAREX BULLATA

TAXONOMIC COMMENT:

COMMON NAME: BUTTON SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
DELMARVA BAY, MARSH, SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX BULLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ACID SWALES, MEADOWS AND BOGS (1); BOGS (2).

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL | |
| CN Y | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP032A0 SRANK: C PROTECTION STATUS:

NAME: CAREX BUSHII

TAXONOMIC COMMENT:

COMMON NAME: BUSH'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX BUSHII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS, WOODS AND MEADOWS (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP032B0 SRANK: PROTECTION STATUS: E

NAME: CAREX BUXBAUMII

TAXONOMIC COMMENT:

COMMON NAME: BUXBAUM'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP FOREST (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX BUXBAUMII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); WET MEADOWS AND WATERSIDES, BOGS, OPEN SWAMPS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP032F0 SRANK: C PROTECTION STATUS:

NAME: CAREX CANESCENS

TAXONOMIC COMMENT:

COMMON NAME: HOARY SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX CANESCENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS, DITCHES AND POND MARGINS (1); BOGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP032P0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX CEPHALOIDEA

TAXONOMIC COMMENT:

COMMON NAME: THIN-LEAVED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:
FLOODPLAINS AND SEEPAGE SWAMPS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX CEPHALOIDEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS, THICKETS, BOTTOMLANDS AND SWALES (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP032W0 SRANK: C PROTECTION STATUS:

NAME: CAREX COLLINSII

TAXONOMIC COMMENT:

COMMON NAME: COLLINS SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SPHAGNUM SPRING SEEP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX COLLINSII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POND MARGINS AND CEDAR SWAMPS (1); BOGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP032Z0 SRANK: C PROTECTION STATUS:

NAME: CAREX COMPLANATA

TAXONOMIC COMMENT:

COMMON NAME: HIRSUTE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE Y |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX COMPLANATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODS AND OPEN SERPENTINE OUTCROPS (1); LOW WOODS, PINELANDS, DITCHES AND MEADOWS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03430 SRANK: B2/X PROTECTION STATUS:

NAME: CAREX ECHINATA

TAXONOMIC COMMENT: SYN=C. CEPHALANTHA: INCLUDES C. ANGUSTOR

COMMON NAME: LITTLE PRICKLY SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
CYPRESS SWAMPS AND LOW PINELANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX ECHINATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PEATY SOILS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP034B0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX EMORYI

TAXONOMIC COMMENT:

COMMON NAME: EMORY'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
CREEK MARGIN (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX EMORYI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPY PLACES (1); SWAMPS, RIVER MARGINS AND SHORES, OFTENEST IN BASIC OR CALCAREOUS WATERS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP034F0 SRANK: PROTECTION STATUS: E

NAME: CAREX EXILIS

TAXONOMIC COMMENT:

COMMON NAME: COAST SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP (1); BOG (2).

SOURCES: A86NAC01MD A74HOG01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX EXILIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WHITE CEDAR SWAMPS (1); WET PEATY SOIL OF BOGS, LESS FREQUENTLY IN MARSH EDGES AND WET MEADOWS (2).

SOURCES: A83RIE01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ASSOCIATED WITH CAREX CANESCENS AND DROSERA RROTUNDIFOLIA IN ACER RUBRUM SWAMP ON DELMARVA PENINSULA; PRIMARILY BOREAL. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP034V0 SRANK: PROTECTION STATUS: EE

NAME: CAREX FOENEA

TAXONOMIC COMMENT:

COMMON NAME: DRY-SPIKE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DEEP SHADY WOODS ALONG CREEK (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX FOENEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY OPEN SOIL (1); DRY, SANDY, OR ROCKY SOIL (2).

SOURCES: B50FER01MD B52GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03550 SRANK: B2 PROTECTION STATUS: E

NAME: CAREX GIGANTEA

TAXONOMIC COMMENT:

COMMON NAME: GIANT SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B46TAT01MD
COMMENTS:

SEARCH IMAGE: PISTILLATE SPIKES CYLINDRIC, 3-6 CM LONG; NUTLETS TRIGONOUS, CONCAVE SIDES WITH KNOBBY RIDGES (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
DELMARVA BAY (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX GIGANTEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); SWAMPS (2)

SOURCES: B68RAD01MD B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA Y | AA | CL | |
| CN Y | PG | ER | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
ENDEMIC TO THE UNITED STATES. TAXONOMIC TREATMENT IN REZNICEK & BALL. (A74REZ01MD) LATE FRUITING. USUALLY FOUND FRINGING SHALLOW, OFTEN FLOODED WOODLAND DEPRESSIONS. BEST IN NEARLY FULL SUN. IN ACER RUBRUM SWAMP. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03590 SRANK: B2/X PROTECTION STATUS: EE

NAME: CAREX GLAUCESCENS

TAXONOMIC COMMENT:

COMMON NAME: A SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
PINE SWAMP; WET WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX GLAUCESCENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PINELANDS AND SAVANNAHS (1); SWAMP (2); SWAMPS AND WET WOODS (3).

SOURCES: B68RAD01MD B46TAT01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
A SOUTHERN SPECIES AT ITS NORTHERN LIMIT OF RANGE. (B46TAT01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP035F0 SRANK: C PROTECTION STATUS:

NAME: CAREX GRANULARIS

TAXONOMIC COMMENT:

COMMON NAME: MEADOW SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX GRANULARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS AND LOW WOODS (1); ALLUVIAL WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP035H0 SRANK: C PROTECTION STATUS:

NAME: CAREX GRAYI

TAXONOMIC COMMENT: SYN=C. GRAYII

COMMON NAME: ASA GRAY SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
BOTTOMLAND FOREST (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX GRAYI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); CALCAREOUS MEADOWS AND ALLUVIAL WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT TO LATE SEPTEMBER. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03630 SRANK: B2 PROTECTION STATUS:

NAME: CAREX HITCHCOCKIANA

TAXONOMIC COMMENT:

COMMON NAME: HITCHCOCK'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
CALCAREOUS WOODLANDS

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE Y |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX HITCHCOCKIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CALCAREOUS OR RICH WOODS (1); RICH, MOIST WOODS (2).

SOURCES: B50FER01MD B52GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV Y BR PD Y UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP036A0 SRANK: C PROTECTION STATUS:

NAME: CAREX HOWEI

TAXONOMIC COMMENT:

COMMON NAME: HOWE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX HOWEI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST WOODS AND STREAM MARGINS (1); BOGS (2); ESPECIALLY WITH CONIFERS (3)

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP036C0 SRANK: PROTECTION STATUS: T

NAME: CAREX HYALINOLEPIS

TAXONOMIC COMMENT:

COMMON NAME: SHORELINE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: STAMINATE SPIKES 2-6, 2-5 CM LONG; PISTILLATE SPIKES 2-4, DROOPING, 2.5-5 CM LONG; NUTLETS OBOVOID, TRIGONOUS (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
TIDAL MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX HYALINOLEPIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES (1); SHALLOW WATER EDGES OF OPEN SWAMPS, OFTEN IN LIMESTONE SOILS; TOLERATES BRACKISH WATER (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
HOUGH GIVES SYNONYM = C. LACUSTRIS VAR. LAXIFLORA (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B3 PROTECTION STATUS:

NAME: CAREX HYSTRICINA

TAXONOMIC COMMENT:

COMMON NAME: PORCUPINE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
STREAM BORDER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX HYSTRICINA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWALES, SWAMPS AND SHORES, CHIEFLY CALCAREOUS (1); SWAMPS, WET MEADOWS, SHORES (2).

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT TO AUGUST. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP036P0 SRANK: C PROTECTION STATUS:

NAME: CAREX JAMESII

TAXONOMIC COMMENT:

COMMON NAME: NEBRASKA SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX JAMESII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS (1); RICH, MOSTLY CALCAREOUS, WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP036S0 SRANK: B2 PROTECTION STATUS: E

NAME: CAREX JOORII

TAXONOMIC COMMENT:

COMMON NAME: --
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: TERMINAL SPIKE (STAMINATE) 3-5.5 CM LONG, PEDUNCLE 2-8 CM LONG
LATERAL SPIKES (PISTILLATE) 2.5-4.5 CM LONG, PEDUNCLES 1-4 CM
PENDULOUS; NUTLETS TRIGONOUS, OVOID, SIDES CONCAVE (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
CYPRESS SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX JOORII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARGINS OF CYPRESS SWAMPS (1); LOW WOODS AND MARSHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP036W0 SRANK: PROTECTION STATUS: EE

NAME: CAREX LACUSTRIS

TAXONOMIC COMMENT:

COMMON NAME: LAKE-BANK SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
CIRCUMNEUTRAL EMERGENT OR SCRUB-SHRUB NONTIDAL WETLANDS (NHP )

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX LACUSTRIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CALCAREOUS OR CIRCUMNEUTRAL SWAMPS AND SHALLOW WATER (1);
TOLERATES BRACKISH WATER (2).

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03710 SRANK: B3 PROTECTION STATUS:

NAME: CAREX LANUGINOSA

TAXONOMIC COMMENT:

COMMON NAME: WOOLLY SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B46TAT01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
CUTOVER SWAMP FOREST (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX LANUGINOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH MEADOWS, SWALES AND SHORES (1); MEADOWS AND SWAMPS (2).

SOURCES: B50FER01MD B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FREQUENT AT WET MARGIN OF A SMALL POND (OR DELMARVA BAY). ASSOCIATED WITH DIOSPYROS VIRGINIANA, CAREX LUPULINA, AND ISOETES ENGELMANNII. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03770 SRANK: B2 PROTECTION STATUS:

NAME: CAREX LEAVENWORTHII

TAXONOMIC COMMENT:

COMMON NAME: LEAVENWORTH'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY WOODLANDS; LAWN (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX LEAVENWORTHII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY OPEN WOODLANDS (1); DRY WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP037E0 SRANK: C PROTECTION STATUS:

NAME: CAREX LEPTALEA

TAXONOMIC COMMENT:

COMMON NAME: BRISTLY-STALK SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX LEPTALEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS (1); BOGS (2); MOSSY WOODS AND SHADED EDGES, MEADOWS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: CAREX LIMOSA

TAXONOMIC COMMENT:

COMMON NAME: MUD SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX LIMOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET BOGS, PEATY QUAGMIRES, POND-MARGINS, ETC. (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: CAREX LIVIDA

TAXONOMIC COMMENT:

COMMON NAME: LIVID SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX LIVIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET CALCAREOUS SOIL (1); WET SOIL OF PEAT BOGS, SWAMPS OR PINELANDS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP037Q0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX LOUISIANICA

TAXONOMIC COMMENT:

COMMON NAME: LOUISIANA SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WET WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX LOUISIANICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS, LOW WOODS AND PINELANDS (1); WOODED BOTTOMLANDS AND SWAMPS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP037T0 SRANK: C PROTECTION STATUS:

NAME: CAREX LUPULIFORMIS

TAXONOMIC COMMENT:

COMMON NAME: FALSE HOP SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX LUPULIFORMIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND DITCHES (1); LOW WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
GROWS IN PARTIAL SHADE TO FULL SUN. ITS SWAMPY HABITAT ASSOCIATED WITH DELMARVA BAYS. ASSOCIATED SPECIES: ACER RUBRUM, CAREX LUPULINA, CLETHRA ALNIFOLIA, LIQUIDAMBAR STYRACIFLUA. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP038F0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX MESOCHOREA

TAXONOMIC COMMENT:

COMMON NAME: MIDLAND SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
LAWN (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX MESOCHOREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, OPEN PLACES (1); OPEN WOODS AND GRASSLANDS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: CAREX MITCHELLIANA

TAXONOMIC COMMENT:

COMMON NAME: MITCHELL'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX MITCHELLIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS (1); SWALES, SWAMPS AND WET WOODS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: CAREX PALLESCENS

TAXONOMIC COMMENT:

COMMON NAME: PALE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX PALLESCENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS, GRASSLANDS, THICKETS AND GLADES (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03BP0 SRANK: B3 PROTECTION STATUS:

NAME: CAREX ROSTRATA

TAXONOMIC COMMENT:

COMMON NAME: BEAKED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
EMERGENT AND SCRUB-SHRUB OPENINGS IN PEATY NONTIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX ROSTRATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH LOW GROUNDS AND ALLUVIAL WOODS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP Y RV Y BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT TO OCTOBER. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03BT0 SRANK: B2/U PROTECTION STATUS:

NAME: CAREX RUGOSPERMA

TAXONOMIC COMMENT: INCLUDED UNDER C. UMBELLATA

COMMON NAME: UMBEL-LIKE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY SANDY WOODS

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX RUGOSPERMA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODED SLOPES (1); DRY SANDY, ARGILLACEOUS OR ROCKY SOIL (2); DRY OR STERILE SOIL (3).

SOURCES: B46TAT01MD B50FER01MD B52GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD Y UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03CC0 SRANK: B3 PROTECTION STATUS:

NAME: CAREX SEORSA

TAXONOMIC COMMENT:

COMMON NAME: WEAK STELLATE SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SPIKES SESSILE, SUBGLOBOSE, ONLY 4-6 MM LONG, MOSTLY UNIFORM; NUTLETS LENTICULAR; LEAVES GRASS-LIKE (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP; BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX SEORSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); WET WOODS, SWAMPS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03CF0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX SHORTIANA

TAXONOMIC COMMENT:

COMMON NAME: SHORT'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SWAMPY MEADOW (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX SHORTIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CALCAREOUS MEADOWS AND MARSHES (1); RICH WOODS, BOTTOMLANDS AND MEADOWS, CHIEFLY CALCAREOUS (2); MOIST WOODS AND MEADOWS (3).

SOURCES: A83RIE01MD B50FER01MD B52GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA Y | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03CG0 SRANK: B1 PROTECTION STATUS:

NAME: CAREX SILICEA

TAXONOMIC COMMENT:

COMMON NAME: SEA-BEACH SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PERIGYNIA WITH THIN-WINGED MARGINS, > 4 MM LONG OR > 2 MM WIDE
PISTILLATE SCALES EQUAL TO OR SHORTER THAN PERIGYNIA (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SAND DUNES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX SILICEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDS OF THE SEASHORE (1); MARITIME SANDS AND ROCKS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA Y | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03D20 SRANK: PROTECTION STATUS: EE

NAME: CAREX STRIATULA

TAXONOMIC COMMENT:

COMMON NAME: LINED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
POWERLINE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX STRIATULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH AND LOW WOODS (1); RICH HARDWOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA Y | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03DJ0 SRANK: PROTECTION STATUS: EE

NAME: CAREX TENERA

TAXONOMIC COMMENT:

COMMON NAME: SLENDER SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:
MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX TENERA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); MOIST TO WET SOIL OF WOODS AND SHADED EDGES, MEADOWS, SALT MARSH EDGES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA Y | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT PERSISTS TO AUGUST. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03DS0 SRANK: B2 PROTECTION STATUS:

NAME: CAREX TONSA

TAXONOMIC COMMENT:

COMMON NAME: SHAVED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY EDGE OF OAK-PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX TONSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY SOIL (1); DRY SANDS, ROCKS AND OPENINGS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03DY0 SRANK: B3 PROTECTION STATUS:

NAME: CAREX TRICHOCARPA

TAXONOMIC COMMENT:

COMMON NAME: HAIRY-FRUITED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
EMERGENT OR SCRUB-SHRUB NONTIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX TRICHOCARPA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES (1); MARSHES, SWAMPS AND ALLUVIUM (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03E60 SRANK: C PROTECTION STATUS:

NAME: CAREX UMBELLATA

TAXONOMIC COMMENT:

COMMON NAME: A SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX UMBELLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY ROCKY OR SANDY SOIL (1); ROCKY LEDGES AND DRY WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03EB0 SRANK: PROTECTION STATUS: E

NAME: CAREX VENUSTA

TAXONOMIC COMMENT:

COMMON NAME: DARK GREEN SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP; SWALE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX VENUSTA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); WET GROUND OF MOSSY, PINELAND BOGS AND WET WOODS, SWAMPS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03EE0 SRANK: PROTECTION STATUS: T

NAME: CAREX VESICARIA

TAXONOMIC COMMENT:

COMMON NAME: INFLATED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX VESICARIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CRANBERRY BOGS (1); MEADOWS, SWALES AND SHORES (2).

SOURCES: A80SHA01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO Y | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03EF0 SRANK: B3 PROTECTION STATUS:

NAME: CAREX VESTITA

TAXONOMIC COMMENT:

COMMON NAME: VELVETY SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
BORDER OF STREAM; GLADE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CAREX VESTITA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS AND SWAMPS (1); LOW WOODS (2); USUALLY DRY, SANDY SOIL OF WOODS AND SHADED EDGES (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03EV0 SRANK: B2 PROTECTION STATUS: EE

NAME: CAREX WOODII

TAXONOMIC COMMENT: SYN=C. TETANICA VAR. WOODII

COMMON NAME: WOOD'S SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:
OPEN WOODS ADJACENT TO OR IN SCRUB-SHRUB NONTIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CAREX WOODII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, RICH WOODS (1); RICH, WET OR MOIST, OPEN SOIL OF THIN WOODS, BOGS, MEADOWS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV Y BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDJUG010B0 SRANK: C PROTECTION STATUS:

NAME: CARYA PALLIDA

TAXONOMIC COMMENT:

COMMON NAME: SAND HICKORY
FAMILY: JUGLANDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CARYA PALLIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY ROCKY OR SANDY WOODS (1); MIXED HARDWOOD FORESTS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB47050 SRANK: B1* PROTECTION STATUS: E

NAME: CASSIA FASCICULATA VAR. MACROSPERMA

TAXONOMIC COMMENT:

COMMON NAME: MARSH WILD SENNA
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: A82LEE01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: PETALS 1-2 CM LONG, NEARLY EQUAL; PODS LARGER THAN VAR. FASCICULATA; SEEDS PROMINENTLY BEAKED (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
TIDAL MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CASSIA FASCICULATA VAR. MACROSPERMA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
TIDAL MARSHES AND ESTUARIES (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
BALLISTICALLY DISPERSED UP TO SEVERAL METERS. (A84LEE03MD)
HERMAPHRODITIC, FRUIT PRODUCTION NOT POLLINATION LIMITED,
SELF-COMPATIBLE. (A82LEE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB0S180 SRANK: C PROTECTION STATUS:

NAME: CASSIA MARILANDICA

TAXONOMIC COMMENT:

COMMON NAME: MARYLAND SENNA
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 3 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: FLOWERS > OR = 3 PER AXIL; LEAFLETS 10-20; JOINTS OF POD WIDER THAN LONG (VS. C. HEBECARPA); OVARY APPRESSED-PUBESCENT (VS. VILLOUS IN C. HEBECARPA) (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CASSIA MARILANDICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL SOILS (1); ROADSIDES AND WOODLAND BORDERS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG01020 SRANK: C PROTECTION STATUS:

NAME: CASTANEA DENTATA

TAXONOMIC COMMENT:

COMMON NAME: AMERICAN CHESTNUT
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CASTANEA DENTATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS (1); DRY, RICH, USUALLY ACID, GRAVELLY OR ROCKY GROUND, OFTEN OF UPLANDS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG01040 SRANK: C PROTECTION STATUS:

NAME: CASTANEA PUMILA

TAXONOMIC COMMENT:

COMMON NAME: ALLEGHENY CHINQUAPIN
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CASTANEA PUMILA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODS AND THICKETS (1); DRY, USUALLY ACID GROUND OF WOODS AND SHADED SLOPES, WASTE (2).

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDULM01020 SRANK: B2/U PROTECTION STATUS:

NAME: CELTIS LAEVIGATA

TAXONOMIC COMMENT:

COMMON NAME: SUGARBERRY
FAMILY: ULMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES YELLOWISH-GREEN ON BOTH SURFACES, LANCEOLATE, ENTIRE OI RARELY WITH A FEW LOW TEETH (OCCIDENTALIS CONSPICUOUSLY SERRATE) (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CELTIS LAEVIGATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL WOODS, RARELY UPLANDS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFABOT050 SRANK: B3 PROTECTION STATUS:

NAME: CENTROSEMA VIRGINIANUM

TAXONOMIC COMMENT:

COMMON NAME: SPURRED BUTTERFLY-PEA
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SIMILAR TO CLITORIA, BUT CALYX LOBES OF CENTROSEMA SHORTER THA STANDARD; LEAVES 3-FOLIATE AND STIPELLATE, PLANT TWINING; LEGUME > 6 CM LONG AND SESSILE (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY, SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL Y | LOAM Y | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CENTROSEMA VIRGINIANUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, SANDY SOIL (1); OPEN WOODS AND CLEARINGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA Y | AA | CL | |
| CN | PG Y | FR | |
| TA Y | CT | WA | |
| DO | CH Y | AL | |
| WI Y | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPRI01020 SRANK: PROTECTION STATUS: EE

NAME: CENTUNCULUS MINIMUS

TAXONOMIC COMMENT:

COMMON NAME: CHAFFWEED
FAMILY: PRIMULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MOIST SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CENTUNCULUS MINIMUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ON TUSSOCKS IN JUNCUS AND CAREX MEADOWS (1); SANDY DITCHES, SAVANNAHS AND POND MARGINS (2); DAMP SAND AND MUD (3).

SOURCES: A81WEB01MD B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCER01040 SRANK: B2 PROTECTION STATUS:

NAME: CERATOPHYLLUM MURICATUM

TAXONOMIC COMMENT: SYN=C. ECHINATUM

COMMON NAME: PRICKLY HORNWORT
FAMILY: CERATOPHYLLACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: DIVISIONS OF LEAVES ENTIRE ON BOTH MARGINS (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
CALM FRESH OR BRACKISH WATERS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CERATOPHYLLUM MURICATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POOLS, LAKES AND ESTUARIES (1); QUIET WATERS (2); QUIET FRESH OR BRACKISH WATERS, MARSHES (3).

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA Y | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
EASILY CONFUSED WITH C. DEMERSUM. (A83RIE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B2 PROTECTION STATUS:

NAME: CHAEROPHYLLUM TAINTURIERI

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: APIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CHAEROPHYLLUM TAINTURIERI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS, ROADSIDES AND WASTE PLACES (1,2);

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
WOODY ANNUAL (B68RAD01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PGCUP03030 SRANK: C PROTECTION STATUS:

NAME: CHAMAECYPARIS THYOIDES

TAXONOMIC COMMENT:

COMMON NAME: ATLANTIC WHITE CEDAR
FAMILY: CUPRESSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? N
IF NO, WHY? FEMALE CONES USED FOR IDENTIFICATION. (CONES MATURE THE FIRST SEASON AND PERSIST AT LEAST A YEAR.) (B83HOU01

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES:
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CHAMAECYPARIS THYOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ACID SWAMPS, BOGS AND WET SANDS (1); FRESH WATER SWAMPS AND ON THE BANKS OF PONDS AND STREAMS (2).

SOURCES: B68RAD01MD B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-06 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDERI08010 SRANK: PROTECTION STATUS: T

NAME: CHAMAEDAPHNE CALYCULATA

TAXONOMIC COMMENT:

COMMON NAME: LEATHERLEAF
FAMILY: ERICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 1 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: CORIACEOUS LEAVES; SCALE-LIKE GLANDS ON BOTTOM SURFACE (WHITISH); FLOWERS WHITE, IN AXILS OF UPPER SMALL LEAVES (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG

SOURCES: A82REA01MD A84VIT01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CHAMAEDAPHNE CALYCULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POOL MARGIN (1); BOGS AND POCOSINS (2).

SOURCES: A77DAM01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ROLE IN BOG ORIGIN, SPREAD, AND CONSOLIDATION. (A86KRA01MD) (A70SWA01MD) EFFECTS OF WET-HEAT TREATMENT (FIRE) (A83FLI02MD) WOULD LIKELY SURVIVE SEVERE FIRES DUE TO BUD DEPTH (A77FLI01MD MAJOR DEER BROWSE DURING SNOW COVER. (A77DAM01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLIL0F010 SRANK: C PROTECTION STATUS:

NAME: CHAMAELIRIUM LUTEUM

TAXONOMIC COMMENT:

COMMON NAME: DEVIL'S-BIT
FAMILY: LILIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES SPATULATE-OBOVATE; FLOWERS WHITE, UNISEXUAL; LEAVES NOT EQUITANT (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CHAMAELIRIUM LUTEUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS AND THICKETS (1); RICH MESIC WOODED SLOPES AND COVES (2);

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR0F040 SRANK: PROTECTION STATUS: T

NAME: CHELONE OBLIQUA

TAXONOMIC COMMENT:

COMMON NAME: RED TURTLEHEAD
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SWAMP; WET WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CHELONE OBLIQUA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN MARSHY GROUND (1); FLOODPLAIN FOREST (2); STREAM BANKS AND MARGINS OF SWAMP FORESTS (3).

SOURCES: A70CO002MD A83REE01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
VARS. OBLIQUA AND SPECIOSA PROBABLY THE SAME, BUT VAR. ERWINIAE IS UNIQUE. VAR. SPECIOSA FOUND IN SILVER MAPLE-COTTONWOOD FLOODPLAIN FORESTED ISLAND MISS. RIVER IN ILLINOIS. (A70CO002MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-02 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCHE091E0 SRANK: B2 PROTECTION STATUS:

NAME: CHENOPODIUM STANDLEYANUM

TAXONOMIC COMMENT: SYN=C. HYBRIDUM VAR. STANDLEYANUM

COMMON NAME: STANDLEY'S GOOSEFOOT
FAMILY: CHENOPODIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CHENOPODIUM STANDLEYANUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS, ROADSIDES AND HEDGE ROWS (1); DRY, OPEN GROUND OF THIN WOODS AND EDGES, DISTURBED SOIL OF ROADSIDES, WASTE (2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST29010 SRANK: C PROTECTION STATUS:

NAME: CHRYSOGONUM VIRGINIANUM

TAXONOMIC COMMENT:

COMMON NAME: GREEN-AND-GOLD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY TO DAMP WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CHRYSOGONUM VIRGINIANUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY SOIL AND DAMP WOODS (1); WOODLANDS (2).

SOURCES: A83RIE01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST2E1U0 SRANK: C PROTECTION STATUS:

NAME: CIRSIUM MUTICUM

TAXONOMIC COMMENT:

COMMON NAME: SWAMP THISTLE
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL Y | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CIRSIUM MUTICUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND LOW THICKETS (1); LOW WOODS, THICKETS AND SWAMPS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP04050 SRANK: C PROTECTION STATUS:

NAME: CLADIUM MARISCOIDES

TAXONOMIC COMMENT:

COMMON NAME: TWIG RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
DELMARVA POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: CLADIUM MARISCOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES, POND BORDERS AND DUNE HOLLOWS (1); BOGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC0K010 SRANK: B2 PROTECTION STATUS:

NAME: COELOGLOSSUM VIRIDE

TAXONOMIC COMMENT: SYN=HABENARIA VIRIDIS VAR. BRACTEATA

COMMON NAME: LONG-BRACTED ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
RICH WOODS ADJACENT TO OPENINGS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: COELOGLOSSUM VIRIDE

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS, BOGS AND MOIST SOIL OF DENSE FORESTS (1); MOIST, RICH, OFTEN LIMESTONE SOIL OF WOODS AND SHADED EDGES, WATERSIDES, GRASSY SPOTS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP Y RV BR Y PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCOM03070 SRANK: C PROTECTION STATUS:

NAME: COMMELINA VIRGINICA

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA DAYFLOWER
FAMILY: COMMELINACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: COMMELINA VIRGINICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET WOODS AND ON BANKS OF STREAMS AND PONDS (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OFTEN CONFUSED WITH C. COMMUNIS. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-04-06 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC0M060 SRANK: PROTECTION STATUS: E

NAME: CORALLORHIZA WISTERIANA

TAXONOMIC COMMENT:

COMMON NAME: WISTER'S CORALROOT
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD A72MAG01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS IN TERMINAL RACEME; NO LEAVES WHEN FLOWERING (WT,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
RICH MOIST WOODS (1)

SOURCES: A72POR01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM Y | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CORALLORHIZA WISTERIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMP FORESTS AND RICH RAVINES (1); RICH MOIST LOAM, LEAFMOLD AND DUFF OR GRAVELLY SOILS IN OAK-HICKORY WOODS (2)

SOURCES: B68RAD01MD A72MAG01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPECIES AND LINE DRAWING; THE ONLY SPRING-BLOOMING CORALROOT WITH UNLOBED LIP; FROM FLORIDA AND EAST TEXAS NORTH TO NEW JERSEY, SOUTHERN OHIO AND SOUTH DAKOTA. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: COREOPSIS AURICULATA

TAXONOMIC COMMENT:

COMMON NAME: RUNNING TICKSEED
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: COREOPSIS AURICULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS AND THICKETS (1); RICH CALCAREOUS HARDWOODS AND OPENINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST2L0W0 SRANK: B2 PROTECTION STATUS:

NAME: COREOPSIS TRIPTERIS

TAXONOMIC COMMENT:

COMMON NAME: TALL TICKSEED
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: COREOPSIS TRIPTERIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL WOODS, MEADOWS AND UPLANDS ON BASIC OR CIRCUMNEUTRAL SOILS (1); THICKETS AND BORDERS OF WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST2L0X0 SRANK: C PROTECTION STATUS:

NAME: COREOPSIS VERTICILLATA

TAXONOMIC COMMENT:

COMMON NAME: WHORLED COREOPSIS
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY SANDY AREAS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: COREOPSIS VERTICILLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
UPLAND WOODS AND PINE BARRENS (1); DRY OPEN WOODS AND CLEARINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPAP07020 SRANK: B1/U PROTECTION STATUS:

NAME: CORYDALIS AUREA

TAXONOMIC COMMENT:

COMMON NAME: GOLDEN CORYDALIS
FAMILY: PAPAVERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL Y | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B63GLE01MD
COMMENTS:

SEARCH IMAGE: FLOWERS YELLOW, SMOOTH OVARY AND CAPSULE; OUTER PETALS FOLDED AT SUMMIT INTO HOLLOW KEEL, NOT WINGED; COROLLA 12-15 MM LONG; SPUR < 1/3 AS LONG AS WHOLE COROLLA

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CORYDALIS AUREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CALRCAREOUS ROCKY SLOPES, GRAVELLY OR SANDY SHORES AND OPEN WOODS (1); ROCKY BANKS OR SANDY SHORES (2)

SOURCES: B50FER01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
SEEDS DISPERSED BY ANTS. (A85HAN01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCRA02010 SRANK: PROTECTION STATUS: EE

NAME: CRASSULA AQUATICA

TAXONOMIC COMMENT: SYN=TILLAEA AQUATICA

COMMON NAME: PYGMYWEED
FAMILY: CRASSULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
TIDAL FRESHWATER MARSH AND MUDFLAT

SOURCES: A80FER01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CRASSULA AQUATICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
EPHEMERAL SEASHORE POOL (1); ON MUDDY SHORES (2); MARGINS OF POOLS AND ON FRESH TO TIDAL SHORES (3).

SOURCES: A84CAT01MD B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ASSOCIATED WITH ZIZANIA AQUATICA ET. AL. (A80FER01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B1/U PROTECTION STATUS:

NAME: CROTON MONANTHROGYNUS

TAXONOMIC COMMENT:

COMMON NAME: PRAIRIE TEA
FAMILY: EUPHORBIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE Y |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CROTON MONANTHROGYNUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LIMESTONE OR BASIC SOILS (1); CALCAREOUS OPENINGS OR BARRENS AND IN WASTE PLACES (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDEUP0J010 SRANK: C PROTECTION STATUS:

NAME: CROTONOPSIS ELLIPTICA

TAXONOMIC COMMENT:

COMMON NAME: ELLIPTICAL RUSHFOIL
FAMILY: EUPHORBIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CROTONOPSIS ELLIPTICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BARRENS AND DRY STERILE SOIL (1); AROUND GRANITE OUTCROPS AND SANDY HABITATS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
CONFUSED WITH C. LINEARIS IN GRAY'S MANUAL, 7TH EDITION, BUT SHOULD HAVE STELLATE HAIRS WITH OVERLAPPING ARMS ON UPPER LEAF SURFACES, AND SCALES OF FRUIT WITH BROAD DISK AND SHORT ARM. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCON070D0 SRANK: PROTECTION STATUS: EE

NAME: CUSCUTA CORYLI

TAXONOMIC COMMENT:

COMMON NAME: HAZEL DODDER
FAMILY: CONVOLVULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
BORDER OF MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CUSCUTA CORYLI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ON WOODY AND HERBACEOUS HOSTS (1); ON VARIOUS SHRUBS AND HERBS ON SANDY POND-SHORES, BOTTOMS AND LOW OR DRY GROUNDS (2)

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA Y | AA Y | CL | |
| CN | PG | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCON07140 SRANK: C PROTECTION STATUS:

NAME: CUSCUTA PENTAGONA

TAXONOMIC COMMENT:

COMMON NAME: FIELD DODDER
FAMILY: CONVOLVULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CUSCUTA PENTAGONA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROADSIDES AND OLD FIELDS, OFTEN ON LEGUMES (1); PARASITE ON MANY SPECIES OF LOW SHRUBS AND HERBS IN DRY, OPEN GROUND (2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCON07170 SRANK: B2 PROTECTION STATUS:

NAME: CUSCUTA POLYGONORUM

TAXONOMIC COMMENT:

COMMON NAME: SMARTWEED DODDER
FAMILY: CONVOLVULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B52GLE01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:
PALUSTRINE EMERGENT MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CUSCUTA POLYGONORUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW GROUND, ON POLYGONUM, LYCOPUS, PENTHORUM, AND OTHER HERBS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASC050A0 SRANK: C PROTECTION STATUS:

NAME: CYNANCHUM LAEVE

TAXONOMIC COMMENT: SYN=AMPELAMUS ALBIDUS

COMMON NAME: HONEYVINE
FAMILY: ASCLEPIADACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYNANCHUM LAEVE

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THICKETS AND ROADSIDES (1); RICH SANDY OR ALLUVIAL THICKETS AND DISTURBED SOIL (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP060N0 SRANK: B2 PROTECTION STATUS:

NAME: CYPERUS DENTATUS

TAXONOMIC COMMENT:

COMMON NAME: TOOTHED SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SANDY SWAMPS AND SHORES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS DENTATUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW SANDY AREAS (1); WET OR MOIST, SANDY OR GRAVELLY SOIL OF WATERSIDES, SWAMPS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: CYPERUS ENGELMANNII

TAXONOMIC COMMENT:

COMMON NAME: ENGELMANN'S CYPERUS
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS ENGELMANNII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET, SANDY PLACES (1); LOW GROUNDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP060Z0 SRANK: C PROTECTION STATUS:

NAME: CYPERUS ERYTHRORHIZOS

TAXONOMIC COMMENT:

COMMON NAME: RED-ROOT FLATSEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS ERYTHRORHIZOS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL SOIL AND SANDY SHORES (1); MARSHES AND DITCHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP061F0 SRANK: C PROTECTION STATUS:

NAME: CYPERUS GRAYI

TAXONOMIC COMMENT: SYN=C. GRAYII

COMMON NAME: ASA GRAY'S CYPERUS
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS GRAYI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SAND DUNES AND BEACHES (1); SANDY WOODS AND FIELDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP061U0 SRANK: C PROTECTION STATUS:

NAME: CYPERUS LANCASTRIENSIS

TAXONOMIC COMMENT:

COMMON NAME: MANY-FLOWERED UMBRELLA-SEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 2 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS LANCASTRIENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN GROUND AND DRY PINE WOODS (1); SANDY WOODS AND FIELDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP062R0 SRANK: B1/X PROTECTION STATUS: EE

NAME: CYPERUS PLUKENETII

TAXONOMIC COMMENT:

COMMON NAME: A GALINGALE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY WOODS AND FIELDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS PLUKENETII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS AND FIELDS (1); DRY OR MOIST SAND OR ROCKS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP060S0 SRANK: B3 PROTECTION STATUS:

NAME: CYPERUS RETROFRACTUS

TAXONOMIC COMMENT: INCLUDES CYPERUS DIPSACIFORMIS

COMMON NAME: ROUGH CYPERUS
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SPIKELETS ALL OR ALL EXCEPT UPPERMOST REFLEXED FORMING OBOVOID SPIKE (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
DRY SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS RETROFRACTUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODS (1); DRY, SANDY TO ROCKY SOIL OF WOODS, FIELDS, BARRENS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP063G0 SRANK: B3 PROTECTION STATUS:

NAME: CYPERUS TENUIFOLIUS

TAXONOMIC COMMENT:

COMMON NAME: THINLEAF FLATSEDGE
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
WET SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: CYPERUS TENUIFOLIUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW FIELDS, DITCHES AND MARSHES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-06 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA22050 SRANK: B2 PROTECTION STATUS:

NAME: DESCHAMPSIA CESPITOSA

TAXONOMIC COMMENT:

COMMON NAME: TUFTED HAIRGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
BASIC ALLUVIOM OF OPEN-CANOPIED STREAMS, OR CIRCUMNEUTRAL EMERGENT NONTIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE Y |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: DESCHAMPSIA CESPITOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN PINELAND OVER OLIVINE (1); SHORES AND COOL BANKS; BOGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP Y RV BR PD Y UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT PERSISTS TO LATE AUGUST. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-06-29 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB1D0R0 SRANK: PROTECTION STATUS: E

NAME: DESMODIUM LAEVIGATUM

TAXONOMIC COMMENT:

COMMON NAME: SMOOTH TICK-TREFOIL
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAFLETS NOT LINEAR; TERMINAL LEAFLET OVATE; STIPULES VERY EARLY DECIDUOUS, LINEAR-LANCEOLATE. (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
FIELDS, OPEN WOODS. (1)

SOURCES: B68RAD01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DESMODIUM LAEVIGATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:

SOURCES:
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL | |
| CN Y | PG Y | FR | |
| TA Y | CT Y | WA | |
| DO | CH | AL Y | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB1D0T0 SRANK: PROTECTION STATUS: E

NAME: DESMODIUM LINEATUM

TAXONOMIC COMMENT:

COMMON NAME: LINEAR-LEAVED TICK-TREFOIL
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B52GLE01MD
COMMENTS:

SEARCH IMAGE: STEM TRAILING, PLANT PROSTRATE; FLOWERS 4-5 MM LONG; STIPULES LANCEOLATE, < 5 MM LONG, MODERATELY PERSISTENT (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY ROADSIDES AND WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DESMODIUM LINEATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY PINE WOODS (1); OPEN WOODS AND SANDY BARRENS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB1D100 SRANK: PROTECTION STATUS: E

NAME: DESMODIUM OCHROLEUCUM

TAXONOMIC COMMENT:

COMMON NAME: CREAM-FLOWERED TICK-TREFOIL
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: FLOWERS WHITE; STEMS DECUMBENT; LOMENTS TWISTED (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY SANDY WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DESMODIUM OCHROLEUCUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY OR ROCKY CLEARINGS OR OPEN WOODS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN Y | PG | FR | |
| TA Y | CT Y | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB1D1M0 SRANK: PROTECTION STATUS: E

NAME: DESMODIUM RIGIDUM

TAXONOMIC COMMENT: SYN=D. OBTUSUM

COMMON NAME: RIGID TICK-TREFOIL
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: STEMS ERECT; LEAFLETS < 3.5 TIMES AS LONG AS WIDE, NOT LINEAR; PETIOLES, LEAFLETS (BENEATH), STEMS PUBESCENT; PETIOLES 1-2 CM LONG (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY SOIL OF FIELDS, ROADSIDES AND WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DESMODIUM RIGIDUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS AND OPEN WOODS (1); DRY, SANDY, OPEN GROUND OF THIN WOODS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI Y | SM | GA Y | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB1D1C0 SRANK: B2 PROTECTION STATUS:

NAME: DESMODIUM SESSILIFOLIUM

TAXONOMIC COMMENT:

COMMON NAME: SESSILE-LEAVED TICK-TREFOIL
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAFLETS THICK, STRONGLY RETICULATE, PUBESCENT BENEATH; LEAVES NEARLY SESSILE; PETIOLE < 5MM LONG (KM,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
OPEN SECONDARY DUNES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DESMODIUM SESSILIFOLIUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN WOODS AND BORDERS (1); DRY, OPEN SANDY OR STERILE GROUND OF WOODS AND SHADED EDGES (2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB1D1D0 SRANK: PROTECTION STATUS: E

NAME: DESMODIUM STRICTUM

TAXONOMIC COMMENT:

COMMON NAME: STIFF TICK-TREFOIL
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAFLETS LINEAR, 4 X AS LONG AS WIDE OR MORE (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY SAND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DESMODIUM STRICTUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDHILLS AND DRY OPEN WOODS (1); PINELANDS (2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: DICHONDRA CAROLINENSIS

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: CONVOLVULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: CREEPING HERB; LEAVES ROUND-RENIFORM; FLOWERS SMALL, GREENISH-WHITE, AXILLARY, SOLITARY, ON PEDUNCLES SHORTER THAN PETIOLES (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DICHONDRA CAROLINENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW SANDY PINELANDS, ROADSIDES AND LAWNS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA27100 SRANK: PROTECTION STATUS: EE

NAME: DIGITARIA VILLOSA

TAXONOMIC COMMENT: SYN=D. FILIFORMIS VAR. VILLOSA

COMMON NAME:
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DIGITARIA VILLOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY FIELDS, ROADSIDES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDTHY03020 SRANK: B2 PROTECTION STATUS:

NAME: DIRCA PALUSTRIS

TAXONOMIC COMMENT:

COMMON NAME: LEATHERWOOD
FAMILY: THYMELIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
RICH WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DIRCA PALUSTRIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH ROCKY WOODS (1); RICH DECIDUOUS WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDDRO02030 SRANK: B2 PROTECTION STATUS: E

NAME: DROSERA CAPILLARIS

TAXONOMIC COMMENT:

COMMON NAME: PINK SUNDEW
FAMILY: DROSERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAF BLADES LONGER THAN WIDE, SPATULATE; COROLLA PINK ALL OVER ASCENDING LEAFY STEM ABSENT. (WT,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG

SOURCES: A79MUR01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: DROSERA CAPILLARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SAVANNAHS, PEAT-SEDGE BOGS, POCOSIN BORDERS AND WET DITCHES (1); WET PEATS, SANDS, AND LOW PINELANDS(2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
TAXONOMY IN MURRY AND URBATSCH. FROM TEXAS TO VIRGINIA. (A79MUR01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-13 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDDRO02070 SRANK: C PROTECTION STATUS:

NAME: DROSERA ROTUNDIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: ROUNDLEAF SUNDEW
FAMILY: DROSERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: DROSERA ROTUNDIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SPHAGNUM BOGS AND LAKE MARGINS (1); WET, PEATY ACID SOILS OF BOGS, CEDAR SWAMPS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPASP0C040 SRANK: PROTECTION STATUS: E

NAME: DRYOPTERIS CELSA

TAXONOMIC COMMENT:

COMMON NAME: LOG FERN
FAMILY: ASPLENIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FRONDS EVERGREEN, BIPINNATE, CORIACEOUS, UNIFORM; LOWEST PINNAE SAME LENGTH AS MEDIAN ONES; SORI NOT MARGINAL (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WELL-DRAINED ECOTONE BETWEEN SWAMP AND UPLAND

SOURCES: A78NIC01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM Y | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: DRYOPTERIS CELSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DREDGE SPOILS FROM DRAINAGE CANAL (1); SHADY SEEPAGE SLOPES IN LOAMY VALLEYS AND SWAMPS (2); IN WELL-DRAINED SOILS, INTOLERANT OF INUNDATION (3)

SOURCES: A78NIC01MD B68RAD01MD A78NIC01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
DISTINGUISHING FEATURES IN KEY AND REDFEARN. (A73KEY01MD)
IN S.E. VA. AND N.E. N.CAR. DRAINING ACTIVITIES HAVE LED TO ITS SPREAD IN THE GREAT DISMAL SWAMP. (A77MUS01MD)
AGGRESSIVE INVADER OF DISTURBED AREAS IN SWAMP. (A78NIC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI02010 SRANK: B2 PROTECTION STATUS:

NAME: ECHINODORUS CORDIFOLIUS

TAXONOMIC COMMENT:

COMMON NAME: UPRIGHT BURHEAD
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ECHINODORUS CORDIFOLIUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS, STREAM BANKS AND DITCHES (1); PONDS AND QUIET STREAMS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDELT02060 SRANK: B2 PROTECTION STATUS:

NAME: ELATINE MINIMA

TAXONOMIC COMMENT:

COMMON NAME: SMALL WATERWORT
FAMILY: ELATINACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
GRAVELLY TIDAL STREAM (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ELATINE MINIMA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY, PEATY OR MUDDY MARGINS AND SHORES OF PONDS AND DEADWATER (1); FORMS SMALL MATS IN OR NEAR QUIET, FRESH WATER OF STREAMSIDES, PONDS, ALSO IN PEAT OR MUD (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP09030 SRANK: B2 PROTECTION STATUS:

NAME: ELEOCHARIS ALBIDA

TAXONOMIC COMMENT:

COMMON NAME: SALTMARSH SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: ACHENES TRIGONOUS, SMOOTH; TUBERCLE DISTINCT, PYRAMIDAL, AS WIDE AS HIGH; BRISTLES PRESENT (AR,WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WET SAND; SALT MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS ALBIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET SAND (1); BRACKISH SANDS AND POOLS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA Y | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI Y | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090M0 SRANK: C PROTECTION STATUS:

NAME: ELEOCHARIS ENGELMANNII

TAXONOMIC COMMENT: SYN=E. ENGELMANNI

COMMON NAME: ENGELMANN SPIKE-RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS ENGELMANNII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET FIELDS AND ROADSIDES (1); MARSHES (2); ACID SWAMPS AND PINELANDS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090P0 SRANK: C PROTECTION STATUS:

NAME: ELEOCHARIS ERYTHROPODA

TAXONOMIC COMMENT: SYN=E. CALVA

COMMON NAME: BALD SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE Y |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS ERYTHROPODA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
STREAM BANKS AND MARSHES (1); IN LIMESTONE SOILS OF STREAM-BANKS, SWAMPS, SPRINGY SPOTS; ALSO IN SHALLOW TO DEEP TIDEWATER OF COASTAL STREAMS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090Q0 SRANK: B3 PROTECTION STATUS:

NAME: ELEOCHARIS FALLAX

TAXONOMIC COMMENT: SYN=E. AMBIGENS

COMMON NAME: CREEPING SPIKE-RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: CULMS TERETE, NOT TWISTED; ACHENES TRIGONOUS, ROUGHENED; TUBERCLE DISTINCT, < 1/2 SIZE OF ACHENE (AR,WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BRACKISH MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS FALLAX

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BRACKISH MARSHES (1); FRESH TO BRACKISH WATER OF MARSH AND POND EDGES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO Y | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090S0 SRANK: B2 PROTECTION STATUS:

NAME: ELEOCHARIS FLAVESCENS

TAXONOMIC COMMENT:

COMMON NAME: PALE SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: ACHENES LENTICULAR-BICONVEX; SHEATHS WITH WHITE, SCARIOUS TIPS
STIGMAS 2 (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
POND MARGINS; ON FLOATING MATS IN SHALLOW WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ELEOCHARIS FLAVESCENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POOLS AND MARSHES (1); WET, OPEN SANDY OR PEATY SOILS OF MARSHES, WATERSIDES, TIDAL RIVERS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE Y | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090T0 SRANK: B1/U PROTECTION STATUS:

NAME: ELEOCHARIS GENICULATA

TAXONOMIC COMMENT:

COMMON NAME: CAPITATE SPIKE-RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS GENICULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES (1); DAMP SOIL AND GRAVEL (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090U0 SRANK: PROTECTION STATUS: EE

NAME: ELEOCHARIS HALOPHILA

TAXONOMIC COMMENT:

COMMON NAME: SALT-MARSH SPIKE-RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
TIDAL MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS HALOPHILA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SALINE SHORES AND TIDAL MARSHES (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP090V0 SRANK: B2 PROTECTION STATUS:

NAME: ELEOCHARIS INTERMEDIA

TAXONOMIC COMMENT:

COMMON NAME: MATTED SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SUNNY, MOIST SITES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS INTERMEDIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SALT MARSH (1); WET CALCAREOUS SOIL (2); WET, OFTEN CALCAREOUS SOIL OF MARSHES, SWAMPS, DITCHES, WATERSIDES (3).

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP09110 SRANK: C PROTECTION STATUS:

NAME: ELEOCHARIS MICROCARPA

TAXONOMIC COMMENT:

COMMON NAME: SMALL-FRUITED SPIKE-RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ELEOCHARIS MICROCARPA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POND MARGINS AND DITCHES (1); BOGS, SAVANNAHS AND DITCHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP091A0 SRANK: C PROTECTION STATUS:

NAME: ELEOCHARIS OLIVACEA

TAXONOMIC COMMENT:

COMMON NAME: CAPITATE SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ELEOCHARIS OLIVACEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET OPEN PLACES AND SWAMPY WOODS (1); WET SANDS AND PEATS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP091J0 SRANK: C PROTECTION STATUS:

NAME: ELEOCHARIS QUADRANGULATA

TAXONOMIC COMMENT:

COMMON NAME: SQUARESTEM SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
DELMARVA BAY, POND, TIDAL MUDFLAT (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS QUADRANGULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS, STREAMS AND PONDS (1); PONDS AND MARSHES, SCATTERED (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FRUIT PERSISTS TO OCTOBER. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP091P0 SRANK: B3 PROTECTION STATUS:

NAME: ELEOCHARIS ROSTELLATA

TAXONOMIC COMMENT:

COMMON NAME: BEAKED SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BRACKISH MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ELEOCHARIS ROSTELLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND SALT MARSHES (1); SALINE TO BRACKISH COASTAL MARSHES AND CALCAREOUS INLAND SWAMPS OR WET MARSHES (2).

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT PERSISTS. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP091R0 SRANK: C PROTECTION STATUS:

NAME: ELEOCHARIS SMALLII

TAXONOMIC COMMENT:

COMMON NAME: CREEPING SPIKE-RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ELEOCHARIS SMALLII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FRESH WATER PONDS AND SWAMPS (1); PEATY OR WET SANDY SWAMPS AND SHORES (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-10 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP091T0 SRANK: B2 PROTECTION STATUS:

NAME: ELEOCHARIS TORTILIS

TAXONOMIC COMMENT:

COMMON NAME: TWISTED SPIKERUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: ACHENES TRIGONOUS, ROUGHENED; TUBERCLE DISTINCT, 1/2 SIZE OF ACHENE; CULMS TRIANGULAR, USUALLY TWISTED (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: ELEOCHARIS TORTILIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MAGNOLIA VIRGINIANA SWAMP (1); BOGS AND SAVANNAHS (2); WET, SHADY PLACES SUCH AS WOODED STREAMSIDES, GLADES, BOGS, SWAMPS, SPRINGY SPOTS (3).

SOURCES: A81WEB02MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
COASTAL PLAIN, NEW YORK TO TEXAS; TAXONOMIC KEY IN WARD AND LEIGH. (A75WAR01MD). FRUIT PERSISTS. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B2/X PROTECTION STATUS:

NAME: PANICUM COMMONSIANUM

TAXONOMIC COMMENT:

COMMON NAME: COMMONS' PANICGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PANICUM COMMONSIANUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
COASTAL SAND DUNES (1); SANDY FIELDS AND WOODS (2); SANDY SOIL OF THE COASTAL PLAIN (3).

SOURCES: B46TAT01MD B68RAD01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN Y | PG Y | FR | |
| TA Y | CT Y | WA | |
| DO Y | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4K0S0 SRANK: B2/X PROTECTION STATUS:

NAME: PANICUM FLEXILE

TAXONOMIC COMMENT:

COMMON NAME: WIRY WITCH-GRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SALT MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PANICUM FLEXILE

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS (1); SANDY TO ROCKY, MOIST OR DRY, OFTEN CALCAREOUS SOIL OF OPEN WOODS AND MEADOWS, SINK HOLES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA240Q0 SRANK: B2 PROTECTION STATUS:

NAME: PANICUM OLIGOSANTHES

TAXONOMIC COMMENT:

COMMON NAME: FEW-FLOWERED PANICGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY WOODS BORDER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PANICUM OLIGOSANTHES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA Y | HO |
| QA Y | AA | CL |
| CN Y | PG Y | FR |
| TA Y | CT | WA |
| DO | CH | AL |
| WI Y | SM | GA |
| SO | | |
| WO Y | | |

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA240T0 SRANK: C PROTECTION STATUS:

NAME: PANICUM RAVENELII

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PANICUM RAVENELII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA240VA SRANK: PROTECTION STATUS: E

NAME: PANICUM SCABRIUSCULUM

TAXONOMIC COMMENT:

COMMON NAME: TALL SWAMP PANICGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
WET GROUND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PANICUM SCABRIUSCULUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET GROUND (1); SAVANNAHS AND BOGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA | HO |
| QA | AA | CL |
| CN | PG Y | FR |
| TA | CT | WA |
| DO | CH | AL |
| WI Y | SM | GA |
| SO | | |
| WO Y | | |

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B1/U PROTECTION STATUS:

NAME: PANICUM TUCKERMANNII

TAXONOMIC COMMENT:

COMMON NAME: TUCKERMAN'S PANICGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PANICUM TUCKERMANNII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY OR GRAVELLY SHORES OR OPEN SOILS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSAX0P010 SRANK: PROTECTION STATUS: E

NAME: PARNASSIA ASARIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: KIDNEYLEAF GRASS-OF-PARNASSUS
FAMILY: SAXIFRAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MOIST, ROCKY, PARTIALLY OPEN SITES

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT Y | IGNEOUS |

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS AND SEEPAGE SLOPES (1); BOGS, WET WOODS AND ROCKY BANKS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
CHROMOSOME NUMBER. (A77GAS01MD) ASSOC. W/SPHAGNUM; MAY REQUIRE LOW TEMPERATURE, MOIST, ACID MEDIUM; SUCCESSFULLY ESTABLISHED USING SEED; GERMINATION AND SEEDLING STUDY IN FARMER; A COMPONENT OF HIGHLAND VEGETATION IN SO. APPALACHIANS.(A80FAR01MD)

LAST LIT.SEARCH: BIO PREV: ; ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4P0J0 SRANK: B1 PROTECTION STATUS:

NAME: PASPALUM FLUITANS

TAXONOMIC COMMENT:

COMMON NAME: FLOATING PASPALUM
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B46TAT01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SEMI-SHADED, SATURATED GRAVEL BAR (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PASPALUM FLUITANS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SEEPAGE AREAS IN SWAMP FORESTS (1); SHALLOW OR STANDING WATER, SLOW MOVING STREAMS, OR VERY WET SOIL (2).

SOURCES: B68RAD01MD A73PET01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
DESCRIPTION OF GENUS AND KEY IN PETRIK-OTT. (A73PET01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPAS01080 SRANK: B2 PROTECTION STATUS:

NAME: PASSIFLORA INCARNATA

TAXONOMIC COMMENT:

COMMON NAME: PURPLE PASSION-FLOWER
FAMILY: PASSIFLORACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY WOODS AND THICKETS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PASSIFLORA INCARNATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS, ROADSIDES, FENCE ROWS AND THICKETS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPAS010A0 SRANK: C PROTECTION STATUS:

NAME: PASSIFLORA LUTEA

TAXONOMIC COMMENT:

COMMON NAME: YELLOW PASSIONFLOWER
FAMILY: PASSIFLORACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
MOIST WOODS; MOWED ROADSIDE BY HARDWOOD SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PASSIFLORA LUTEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS AND THICKETS (1); MIXED DECIDUOUS WOODLANDS AND THICKETS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR1K0M0 SRANK: B2 PROTECTION STATUS:

NAME: PEDICULARIS LANCEOLATA

TAXONOMIC COMMENT:

COMMON NAME: SWAMP LOUSEWORT
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: CALYX LOBES UNITED WITH LATERAL APPENDAGE EITHER SIDE; COROLLA UPPER LIP ENTIRE (NO MARGINAL TEETH); LEAVES BIPINNATIFID, MOSTLY OPPOSITE.

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PEDICULARIS LANCEOLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW GROUND (1); WET MEADOWS ON BASIC SOILS (2); SHORES, SWAMPS AND WET MEADOWS OVER BASIC SOIL (3).

SOURCES: B46TAT01MD B68RAD01MD A83RIE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR1L3F0 SRANK: C PROTECTION STATUS:

NAME: PENSTEMON LAEVIGATUS

TAXONOMIC COMMENT:

COMMON NAME: SMOOTH BEARDTONGUE
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: COROLLA VIOLET, 15-22 MM LONG; INFLORESCENCE GLABROUS; LEAVES GLABROUS ON LOWER SURFACE (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PENSTEMON LAEVIGATUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW MEADOWS AND FOREST EDGES, IN MOIST BUT SANDY SOIL (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDHYD0C420 SRANK: PROTECTION STATUS: E

NAME: PHACELIA RANUNCULACEA

TAXONOMIC COMMENT:

COMMON NAME: COVILLE'S PHACELIA
FAMILY: HYDROPHYLLACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD A70TER01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
FLOODPLAIN FOREST (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PHACELIA RANUNCULACEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL WOODS AND FLOODPLAINS (1); RICH, OFTEN ROCKY WOODS (2).

SOURCES: B68RAD01MD A70TER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA | HO |
| QA | AA | CL |
| CN | PG Y | FR |
| TA | CT | WA |
| DO | CH | AL |
| WI | SM | GA |
| SO | | |
| WO | | |

ALL

COMMENTS:

GENERAL COMMENTS:
LINE DRAWING AND DISTRIBUTION IN CHUANG AND CONSTANCE. TWO CYTOTYPES BUT NO MORPHOLOGICAL DIFFERENCE. (A77CHU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4R070 SRANK: PROTECTION STATUS: EE

NAME: PHALARIS CAROLINIANA

TAXONOMIC COMMENT:

COMMON NAME: MAY GRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SANDY CLEARINGS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PHALARIS CAROLINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DITCHES, ROADSIDES AND WASTE PLACES (1); SANDY SOIL (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS: MAY BE ADVENTIVE

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: C PROTECTION STATUS:

NAME: PHASEOLUS POLYSTACHYUS

TAXONOMIC COMMENT: SYN=P. POLYSTACHIOS

COMMON NAME: WILD BEAN
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: STEM USUALLY CLIMBING; LEAFLETS OVATE, NOT LOBED; RACEMES BRANCHING AT BASE, 2-SEVERAL PER AXIL; PETALS PURPLE OR WHITE

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PHASEOLUS POLYSTACHYUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THICKETS (1); WOODS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-03-23 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDEUP13040 SRANK: C PROTECTION STATUS:

NAME: PHYLLANTHUS CAROLINIENSIS

TAXONOMIC COMMENT:

COMMON NAME: CAROLINA LEAF-FLOWER
FAMILY: EUPHORBIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PHYLLANTHUS CAROLINIENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALLUVIAL OR MOIST SANDY SOIL (1); LOW FIELDS AND WOODLANDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSOLOSOSO SRANK: C PROTECTION STATUS:

NAME: PHYSALIS VIRGINIANA

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA GROUND-CHERRY
FAMILY: SOLANACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PHYSALIS VIRGINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY SANDY SOIL (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDURT07010 SRANK: B2 PROTECTION STATUS:

NAME: PILEA FONTANA

TAXONOMIC COMMENT:

COMMON NAME: COOLWORT
FAMILY: URTICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
FRESH MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PILEA FONTANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMP FORESTS AND MARSHES (1); SWAMPS, WET SHORES AND SPRINGHEADS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE Y | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPLN02090 SRANK: PROTECTION STATUS: EE

NAME: PLANTAGO CORDATA

TAXONOMIC COMMENT:

COMMON NAME: HEART-LEAVED PLANTAIN
FAMILY: PLANTAGINACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 3 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 1 | MAYB 3 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: A78MEA01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WOODLAND STREAMS WITH GRAVEL BARS AND ROCK BOTTOMS (1)

SOURCES: A78MEA01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PLANTAGO CORDATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FLOODPLAIN FOREST (1); RIVULETS IN SWAMPY WOODLOT (2).

SOURCES: A78MEA01MD A83SP002MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ACAULESCENT, AQUATIC TO SEMI-AQUATIC, PARTIALLY OR WHOLLY SUBMERGED; BEST ADAPTED TO LONG-STANDING, STABLE STREAM ENVIRONMENTS OF CLIMAX HARDWOOD FORESTS; NOT ADAPTED TO MAN-MADE ENVIRONMENTS; SUN AND SHADE TOLERANT. (A78MEA01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC1Y020 SRANK: C PROTECTION STATUS:

NAME: PLATANTHERA BLEPHARIGLOTTIS

TAXONOMIC COMMENT: SYN=HABENARIA BLEPHARIGLOTTIS

COMMON NAME: WHITE-FRINGE ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: BODY OF LIP FRINGED; FLOWERS WHITE (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP; BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PLATANTHERA BLEPHARIGLOTTIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND WET OPEN PLACES (1); BOGS OR DEPRESSIONS IN SAVANNAHS, PEATY SOILS AND PINE BARRENS (2).

SOURCES: B46TAT01MD B68RAD01MD A75HEN02MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPECIES OF HABENARIA P. 117. ALONG COAST FROM SOUTH CAROLINA NORTH TO NEWFOUNDLAND. USUALLY BLOOMS DURING THE FIRST TWO WEEKS OF AUGUST. LINE DRAWING P. 125. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC1Y040 SRANK: C PROTECTION STATUS:

NAME: PLATANTHERA CILIARIS

TAXONOMIC COMMENT: SYN=HABENARIA CILIARIS

COMMON NAME: YELLOW-FRINGE ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: BODY OF LIP FRINGED; FLOWERS ORANGE; SPUR 18-28 MM LONG (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PLATANTHERA CILIARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND WET MEADOWS (1); BOGS, MEADOWS, GRASSY HILLS AND FLOODPLAINS (2); DRY ROCKY-MOUNTAIN WOODS IN THE COMPANY OF ERICACEOUS SHRUBS AND CLUB MOSSES (3).

SOURCES: B46TAT01MD B68RAD01MD A75HEN02MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO HABENARIA SPECIES P. 117. LINE DRAWING P 126. RANGE FROM FLORIDA AND EASTERN TEXAS TO NEW ENGLAND, ONTARIO, AND WISCONSIN. BLOOMS MOSTLY IN AUGUST. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC1Y060 SRANK: C PROTECTION STATUS:

NAME: PLATANTHERA CRISTATA

TAXONOMIC COMMENT: SYN=HABENARIA CRISTATA

COMMON NAME: YELLOW-CRESTED ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: BODY OF LIP FRINGED, NOT TRIPARTITE; FLOWERS ORANGE; SPUR 5-8 MM LONG (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
WET MEADOW (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PLATANTHERA CRISTATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMP, WET ROADSIDES AND LOW WOODS (1); BOGS, LOW MEADOWS, SWAMPS AND POCOSINS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPECIES OF HABENARIA, P. 117. DISCUSSION OF HYBRIDS, P. 126. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC1Y080 SRANK: PROTECTION STATUS: T

NAME: PLATANTHERA FLAVA

TAXONOMIC COMMENT: SYN=HABENARIA FLAVA

COMMON NAME: PALE GREEN ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LIP SIMPLE, NOT FRINGED, HASTATE AT BASE; FLOWERS GREENISH OR GREEN-YELLOW (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SHALLOW WATER OF MILL POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PLATANTHERA FLAVA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPY WOODS, BOTTOMLANDS, SWALES AND WET SHORES (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT Y | WA | |
| DO | CH | AL Y | |
| WI Y | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPECIES OF HABENARIA, P. 117.
H. FLAVA VAR. HERBIOLA, P. 128. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC1Y0L0 SRANK: PROTECTION STATUS: T

NAME: PLATANTHERA PERAMOENA

TAXONOMIC COMMENT: SYN=HABENARIA PERAMOENA

COMMON NAME: PURPLE FRINGELESS ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD A75HEN02MD
COMMENTS:

SEARCH IMAGE: LIP DEEPLY 3-PARTED, NOT FRINGED; FLOWERS ROSE-PURPLE-VIOLET (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
EMERGENT AND SCRUB-SHRUB NONTIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PLATANTHERA PERAMOENA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS, BOGS, ALLUVIAL THICKETS AND LOW WOODS (1); MOIST ACIDIC SOILS IN SWAMP FORESTS, DITCHES AND DISTURBED FIELDS (2); MOIST, SUNNY MEADOWS (3).

SOURCES: B50FER01MD A83SPO02MD A75HEN02MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPECIES OF HABENARIA, LINE DRAWING IN HENRY. RANGES FROM ALABAMA AND ARKANSAS NORTH TO NEW JERSEY AND SOUTHERN ILLINOIS. (A75HEN02MD) PLANTS 4-5 FEET HIGH. (A73HAR01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC1Y0M0 SRANK: B2 PROTECTION STATUS:

NAME: PLATANTHERA PSYCODES

TAXONOMIC COMMENT: SYN=HABENARIA PSYCODES

COMMON NAME: SMALL PURPLE-FRINGED ORCHIS
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP; SWAMPY WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PLATANTHERA PSYCODES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET MEADOWS AND LOW WOODS (1); UPLAND MEADOWS, OPEN WOODS, PASTURES AND SWAMPS (2); RICH, WET OR MOIST, COOL, OPEN GROUND OF SWAMP EDGES, THIN WOODS, ALLUVIUM, MEADOWS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPECIES AND LINE DRAWING IN HENRY. RANGE FROM NEWFOUNDLAND TO NORTHWESTERN ONTARIO, SOUTH TO NORTH CAROLINA AND TENNESSEE. IN WEST PA. MOST COMMON IN BLACK, MUCKY SWAMPS OF GLACIATED SECTION; SOME FROM THE MOUNTAINS. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST7E020 SRANK: B2 PROTECTION STATUS:

NAME: PLUCHEA CAMPHORATA

TAXONOMIC COMMENT:

COMMON NAME: MARSH FLEABANE
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PLUCHEA CAMPHORATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FRESHWATER SWAMPS AND ON BORDERS OF BRACKISH MARSHES (1); PASTURES, BOGS, DITCHES, AND WOODLANDS, USUALLY IN WET SOIL (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4Z1C0 SRANK: B1/U PROTECTION STATUS:

NAME: POA LANGUIDA

TAXONOMIC COMMENT:

COMMON NAME: WEAK SPEARGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY WOODLANDS AND GLADES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POA LANGUIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PINE BARRENS OVER OLIVINE (1); DRY, SANDY OR ROCKY SOIL OF WOODS, RIDGES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4Z1X0 SRANK: B2/U PROTECTION STATUS:

NAME: POA PALUSTRIS

TAXONOMIC COMMENT:

COMMON NAME: FOWL BLUEGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POA PALUSTRIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
STREAM BANKS AND MEADOWS (1); MOIST OR WET, OPEN SOIL OF SWAMPS, WATERSIDES, MEADOWS, SHADED WOODS EDGES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC21010 SRANK: C PROTECTION STATUS:

NAME: POGONIA OPHIOGLOSSOIDES

TAXONOMIC COMMENT:

COMMON NAME: ROSE POGONIA
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS SOLITARY, TERMINAL, PINK; SINGLE LEAF NEAR MIDDLE, OFTEN A PETIOLED BASAL LEAF, AND TERMINAL BRACTEAL LEAF (AR,CI

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: POGONIA OPHIOGLOSSOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS, DITCHES AND POND MARGINS (1); SANDY SWALES, FLAT WOODS, VERY WET SPHAGNUM BOGS (2).

SOURCES: B46TAT01MD A75HEN02MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
LINE DRAWING IN HENRY. RANGE NEWFOUNDLAND TO WESTERN ONTARIO, SOUTH TO FLORIDA AND TEXAS. BLOOMS ABOUT THE MIDDLE OF JUNE. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCPP08010 SRANK: PROTECTION STATUS: EE

NAME: POLANISIA DODECANDRA

TAXONOMIC COMMENT:

COMMON NAME: CLAMMYWEED
FAMILY: CAPPARIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B63GLE01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY GROUND AND SAND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLANISIA DODECANDRA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY SANDY OR GRAVELLY SOIL, ESPECIALLY ALONG STREAMS (1);
DRY, OPEN, SANDY OR GRAVELLY GROUND OF WATERSIDE BANKS,
TRANSPORTATION ROUTES (2).

SOURCES: B63GLE01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE Y | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPLMOEOL0 SRANK: PROTECTION STATUS: E

NAME: POLEMONIUM VAN-BRUNTIAE

TAXONOMIC COMMENT:

COMMON NAME: JACOB'S-LADDER
FAMILY: POLEMONIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B63GLE01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP; GLADE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLEMONIUM VAN-BRUNTIAE

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND STREAM BANKS (1);

SOURCES: B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGL020E0 SRANK: PROTECTION STATUS: E

NAME: POLYGALA CRUCIATA

TAXONOMIC COMMENT:

COMMON NAME: CROSS-LEAVED MILKWORT
FAMILY: POLYGALACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SEPALS ACUMINATE, ABRUPTLY NARROWED; PEDUNCLES < 1 CM LONG; RACEMES 8 MM OR MORE BROAD, DENSELY FLOWERED (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
OPEN, SANDY OR PEATY SOILS

SOURCES: A85BUR01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: POLYGALA CRUCIATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS, SAVANNAHS, AND POCOSINS (1); WET GROUND OF INNER SALT MARSH EDGES, PINELANDS, BOGS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGL020F0 SRANK: C PROTECTION STATUS:

NAME: POLYGALA CURTISSII

TAXONOMIC COMMENT:

COMMON NAME: CURTISS MILKWORT
FAMILY: POLYGALACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: SEPALS 3 MM LONG OR MORE, EQUAL TO COROLLA; RACEMES 8 MM BROAD OR MORE; BRACTS PERSISTENT (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYGALA CURTISSII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST WOODLAND BORDERS, OLD FIELDS AND THICKETS (1); DRY TO MOIST PINELANDS AND OPENINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-23 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGL020P0 SRANK: C PROTECTION STATUS:

NAME: POLYGALA INCARNATA

TAXONOMIC COMMENT:

COMMON NAME: PINK MILKWORT
FAMILY: POLYGALACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS PINK IN DENSE RACEMES; COROLLA 2X AS LONG OR MORE AS LARGEST SEPALS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYGALA INCARNATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OLD FIELDS, WOODLAND BORDERS AND SAVANNAHS (1); DRY, OPEN SOIL (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGN0L0W0 SRANK: PROTECTION STATUS: E

NAME: POLYGONUM DENSIFLORUM

TAXONOMIC COMMENT:

COMMON NAME: DENSE-FLOWERED KNOTWEED
FAMILY: POLYGONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: OCREAE ENTIRE, LOWERMOST WITH CILIA, OTHERS W/O CILIA; ACHENES BICONVEX; PEDUNCLES NOT GLANDULAR (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MARSH; POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYGONUM DENSIFLORUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY SOIL OF THE COAST (1); SWAMP FORESTS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGN0L120 SRANK: C PROTECTION STATUS:

NAME: POLYGONUM GLAUCUM

TAXONOMIC COMMENT:

COMMON NAME: SEA-BEACH KNOTWEED
FAMILY: POLYGONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 3 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYGONUM GLAUCUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BEACHES OF THE ATLANTIC COAST (1); RESTRICTED TO BEACH SANDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGN0L210 SRANK: B2 PROTECTION STATUS:

NAME: POLYGONUM RAMOSISSIMUM

TAXONOMIC COMMENT:

COMMON NAME: BUSHY KNOTWEED
FAMILY: POLYGONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: ACHENES 2 TYPES: EARLY ONES THICKLY OVOID, INSERTED; LATE NARROWLY OVOID, EXSERTED; PEDICELS > CALYX; FLOWERS IN SMALL AXILLARY CLUSTERS.

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:
SANDY ROADSIDES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYGONUM RAMOSISSIMUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY SOIL NEAR THE COAST (1); SANDY AND LIGHT SOILS, SHORES, ROADSIDES, ETC. (2)

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGN0L220 SRANK: B2 PROTECTION STATUS:

NAME: POLYGONUM ROBUSTIUS

TAXONOMIC COMMENT:

COMMON NAME: STOUT SMARTWEED
FAMILY: POLYGONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE: OCREAE CYLINDRIC, STRIGOSE, WITH BRISTLES; ACHENE SHINY, TRIGONOUS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYGONUM ROBUSTIUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARGINS OF PONDS OR QUIET STREAMS OR IN INUNDATED PLACES (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH Y | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPPOL020S0 SRANK: C PROTECTION STATUS:

NAME: POLYPODIUM POLYPODIOIDES

TAXONOMIC COMMENT:

COMMON NAME: RESURRECTION FERN
FAMILY: POLYPODIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: STIPE AND LOWER SURFACE OF FROND DENSELY SCALY (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
WOODED SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POLYPODIUM POLYPODIOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ON TRUNKS OF TREES, USUALLY AT A CONSIDERABLE HEIGHT ABOVE THE GROUND (1); ROCKS, LIMBS AND CROTCHES OF LARGE TREES (2)

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT03020 SRANK: B3 PROTECTION STATUS:

NAME: POTAMOGETON AMPLIFOLIUS

TAXONOMIC COMMENT:

COMMON NAME: LARGE-LEAVED PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WATER, 3-5 FEET DEEP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON AMPLIFOLIUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS, LAKES AND SLUGGISH STREAMS (1); LAKES AND STREAMS, IN RATHER DEEP WATER (2); DEEP WATER OF PONDS, RIVERS, LAKES (3)

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT030B0 SRANK: B3 PROTECTION STATUS:

NAME: POTAMOGETON FOLIOSUS

TAXONOMIC COMMENT:

COMMON NAME: LEAFY PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES ENTIRE, LINEAR, < 2MM WIDE; STIPULES FREE FROM LEAF BASE, CONNATE; FRUIT WITH WAVY-TOOTHED KEEL (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
FRESHWATER POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON FOLIOSUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FRESH, CALCAREOUS OR BRACKISH WATERS OF LAKES, STREAMS AND PONDS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: POTAMOGETON OAKESIANUS

TAXONOMIC COMMENT:

COMMON NAME: OAKES' PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: POTAMOGETON OAKESIANUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ACID PEATY-, SANDY-, OR ROCKY-BOTTOMED POOLS (1);
IN SHALLOW QUIET WATERS OF PONDS, SOILS USUALLY ACID, SANDY, OR ROCKY (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT030T0 SRANK: B3 PROTECTION STATUS:

NAME: POTAMOGETON PERFOLIATUS

TAXONOMIC COMMENT:

COMMON NAME: CLASPING-LEAVED PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES SUBMERSED, > OR = 4 MM WIDE, CORDATE-CLASPING TO PERFOLIATE; STIPULES ABSENT OR INCONSPICUOUS (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BRACKISH WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON PERFOLIATUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CALCAREOUS TO BRACKISH WATERS (1); PONDS AND SLOW STREAMS (2).

SOURCES: B50FER01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH Y | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB3B0V0 SRANK: B2/X PROTECTION STATUS:

NAME: PSORALEA PSORALIOIDES

TAXONOMIC COMMENT:

COMMON NAME: FALSE SCURF-PEA
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PSORALEA PSORALIOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN WOODS, CLEARINGS AND FIELDS (1);

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-04-27 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT030X0 SRANK: B2 PROTECTION STATUS:

NAME: POTAMOGETON PUSILLUS

TAXONOMIC COMMENT:

COMMON NAME: SLENDER PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SHALLOW POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON PUSILLUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BASIC OR ALKALINE WATERS (1); ALKALINE WATERS OF PONDS AND SLOW STREAMS (2).

SOURCES: B50FER01MD A83RIE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN Y | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
SIMILAR TO P. BERCHTOLDII WHICH GROWS IN ACID AND ALKALINE WATERS AND OCCASINALLY IN BRACKISH WATER ALONG THE COAST. (A83RIE01MD) PETIOLES HAVE BOAT-SHAPED STIPULES, USUALLY 2 TIMES THE WIDTH OF THE LEAF BASE. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT030Y0 SRANK: PROTECTION STATUS: EE

NAME: POTAMOGETON RICHARDSONII

TAXONOMIC COMMENT:

COMMON NAME: REDHEADGRASS
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
LAKE

SOURCES: A78SPE01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON RICHARDSONII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LAKES AND RIVERS, FREQUENTLY BRACKISH OR ALKALINE (1);
FRESH TO BRACKISH WATERS OF PONDS, LAKES, STREAMS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
HIGHLY VARIABLE IN LEAF SIZE AND SHAPE, INTERNODE LENGTH. PHOTOS IN SPENCE. OCCURS ALONG EXPOSED AND SHELTERED SHORES, DIFFERENT SOIL TYPES.(A78SPE01MD) HYBRIDIZES WITH P. ALPINUS, P. GRAMINEUS AND P. ILLINOENSIS IN STREAMS. (A78SMI01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT030Z0 SRANK: PROTECTION STATUS: EE

NAME: POTAMOGETON ROBBINSII

TAXONOMIC COMMENT:

COMMON NAME: ROBBINS' PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SHALLOW WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON ROBBINSII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MUDDY WATERS (1); QUIET AND MUDDY WATERS OF PONDS AND LAKES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FRUITS RARELY PRODUCED. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT03100 SRANK: B2 PROTECTION STATUS:

NAME: POTAMOGETON SPIRILLUS

TAXONOMIC COMMENT:

COMMON NAME: SPIRAL PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SUBMERGED LEAVES LESS THAN 4 MM WIDE, FLOATING LEAVES DILATED
FRUIT STRONGLY FLATTENED, NO LATERAL WINGS (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SHALLOW WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON SPIRILLUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS (1); QUIET WATERS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOT03160 SRANK: PROTECTION STATUS: EE

NAME: POTAMOGETON ZOSTERIFORMIS

TAXONOMIC COMMENT:

COMMON NAME: FLATSTEM PONDWEED
FAMILY: POTAMOGETONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MOUTH OF LARGE CREEK (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTAMOGETON ZOSTERIFORMIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
QUIET WATERS (1); QUIET OR FLOWING WATERS OF PONDS, SLOW STREAMS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS1B060 SRANK: B2/U PROTECTION STATUS:

NAME: POTENTILLA ARGUTA

TAXONOMIC COMMENT:

COMMON NAME: TALL CINQUEFOIL
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
NATURAL GRASSLANDS, EMERGENT WETLANDS AND GLADES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: POTENTILLA ARGUTA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY, BUSHY OR ALLUVIAL SOILS OR PRAIRIES (1); DRY, ROCKY GROUND OF WOODS, BLUFFS; SOMETIMES MEADOWS AND ALLUVIUM (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS: FEN INDICATOR

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA530B0 SRANK: C PROTECTION STATUS:

NAME: PUCCINELLIA FASCICULATA

TAXONOMIC COMMENT:

COMMON NAME: SALT MARSH GOOSEGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PUCCINELLIA FASCICULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
IN SALT MARSHES ALONG THE COAST (1); SANDY SEASHORE (2);
WET SOIL OR WATER OF SALT MARSH BORDERS, BEACHES (3).

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA61030 SRANK: PROTECTION STATUS: EE

NAME: PUCCINELLIA PALLIDA

TAXONOMIC COMMENT: SYN=GLYCERIA PALLIDA, TORREYOCHLOA PALLIDA

COMMON NAME: PALE MANNAGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEMMAS OBVIOUSLY NERVED; GLUMES WITH MORE THAN 1 NERVE (VS. A SINGLE, VERY PROMINENT NERVE IN GLYCERIA GRANDIS); SPIKELET LESS THAN 1 CM LONG; PANICLE LAX AND DIFFUSE (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MARSHY, PONDED AREA (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PUCCINELLIA PALLIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); SWAMPS AND SHALLOW WATER (2).

SOURCES: B68RAD01MD B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1N0G0 SRANK: B2 PROTECTION STATUS:

NAME: PYCNANTHEMUM TORREI

TAXONOMIC COMMENT:

COMMON NAME: TORREY'S MOUNTAIN-MINT
FAMILY: LAMIACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SPHAGNUM BANK (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PYCNANTHEMUM TORREI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, OFTEN FERTILE, WOODS AND THICKETS (1); DRY OR MOIST OPEN GROUND OF THIN WOODS AND SHADED EDGES, SWAMP EDGES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1N0H0 SRANK: B3 PROTECTION STATUS:

NAME: PYCNANTHEMUM VERTICILLATUM

TAXONOMIC COMMENT:

COMMON NAME: WHORLED MOUNTAIN-MINT
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES < 1.5 CM WIDE ON MAIN STEM; STEM SHORT-PUBESCENT ON SIDES; CALYX LOBES < 2 MM LONG, NOT SHARP-TIPPED (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
BASIC GLADE OPENINGS, ESPECIALLY IN OR ADJACENT TO SEEPS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PYCNANTHEMUM VERTICILLATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS AND WOODLAND BORDERS (1); DRY OR MOIST OPEN GROUND OF THIN WOODS AND SHADED EDGES, SWAMP EDGES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS: POWERLINES PROVIDE STRUCTURALLY SIMILAR HABITATS

PHYSIOGRAPHIC DISTRIBUTION: AP RV Y BR PD Y UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1N0J0 SRANK: B3 PROTECTION STATUS:

NAME: PYCNANTHEMUM VIRGINIANUM

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA MOUNTAIN-MINT
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACU

PRIMARY HABITATS:
DRY THICKETS AND OLD FIELDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PYCNANTHEMUM VIRGINIANUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY THICKETS AND OLD FIELDS (1); WOODLANDS (2); MOIST GROUND OF UPLAND WOODS, SHADED EDGES, WATERSIDES, MEADOWS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
CLOSELY RELATED TO P. TORREI. (A83RIE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDERI0X010 SRANK: PROTECTION STATUS: E

NAME: PYROLA SECUNDA

TAXONOMIC COMMENT:

COMMON NAME: ONE-SIDED PYROLA
FAMILY: ERICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: PYROLA SECUNDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY OR MOIST WOODS (1); OFTEN WITH HEMLOCK; BOGS EDGES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
A DOMINANT HERB IN VOLCANIC CINDER CONE IN CRATER LAKE, OREGON. (A73JAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDERI140C0 SRANK: PROTECTION STATUS: EE

NAME: PYROLA VIRENS

TAXONOMIC COMMENT:

COMMON NAME: GREENISH-FLOWERED PYROLA
FAMILY: ERICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PYROLA VIRENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY PINE WOODS (1); DRY OR DRYISH CONIFEROUS WOODS AND THICKETS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA | HO |
| QA | AA | CL |
| CN | PG Y | FR |
| TA | CT | WA |
| DO | CH | AL |
| WI | SM | GA |
| SO | | |
| WO | | |

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST7V010 SRANK: C PROTECTION STATUS:

NAME: PYRRHOPAPPUS CAROLINIANUS

TAXONOMIC COMMENT:

COMMON NAME: CAROLINA FALSE-DANDELION
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL Y | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: PYRRHOPAPPUS CAROLINIANUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY FIELDS (1); ROADSIDES, MEADOWS, PASTURES, FIELDS AND WASTE PLACES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG05100 SRANK: C PROTECTION STATUS:

NAME: QUERCUS IMBRICARIA

TAXONOMIC COMMENT:

COMMON NAME: SHINGLE OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES ENTIRE, 10-15 CM LONG, BRISTLE-TIPPED, PUBESCENT BENEATH; VEINLETS ELEVATED ON UPPER SURFACE (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS IMBRICARIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH SOIL ALONG STREAMS (1); RICH WOODS AND BOTTOMS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG05170 SRANK: C PROTECTION STATUS:

NAME: QUERCUS LYRATA

TAXONOMIC COMMENT: SIMILAR TO Q. STELLATA

COMMON NAME: OVERCUP OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: LEAVES LOBED, PUBESCENCE ON LOWER SURFACE PERCEPTIBLE TO TOUCI
HORIZONTAL, SPREADING-MANY BRANCHED HAIRS (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS LYRATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RIVER BOTTOMS AND BANKS OF STREAMS (1); RIVER BOTTOMS AND LOW GROUNDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-03-25 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG05190 SRANK: B2 PROTECTION STATUS:

NAME: QUERCUS MACROCARPA

TAXONOMIC COMMENT:

COMMON NAME: MOSSY-CUP OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
SWAMPS AND WET FLOODPLAINS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS MACROCARPA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOTTOMLANDS, RICH WOODS AND FERTILE SLOPES (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV Y BR PD Y UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO | |
| QA Y | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
IDENTIFICATION BY LEAF SPECIMENS ALONE IS DUBIOUS. RESISTENT TO AIR POLLUTION AND DROUGHT. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG051G0 SRANK: C PROTECTION STATUS:

NAME: QUERCUS MUHLENBERGII

TAXONOMIC COMMENT: SYN=Q. PRINOIDES VAR. ACUMINATA

COMMON NAME: YELLOW OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE Y |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS MUHLENBERGII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SERPENTINE SOIL (1); BASIC SOILS (2); DRY, ROCKY, RICH GROUND OF SLOPES, ROCK OUTCROPS, WELL-DRAINED SANDY LOWLANDS, PREFERS LIMESTONE SOIL (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FRUIT MATURES LATE SEPTEMBER AND OCTOBER OF THE SECOND YEAR. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG051S0 SRANK: C PROTECTION STATUS:

NAME: QUERCUS PRINOIDES

TAXONOMIC COMMENT:

COMMON NAME: DWARF CHINQUAPIN OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS PRINOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SERPENTINE SOIL AND LOW GROUND (1); DRY, SANDY OR ROCKY SOILS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FRUIT MATURES LATE SEPTEMBER AND OCTOBER OF THE SECOND YEAR. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAG05200 SRANK: B2 PROTECTION STATUS:

NAME: QUERCUS SHUMARDII

TAXONOMIC COMMENT:

COMMON NAME: SHUMARD'S RED OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS SHUMARDII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS AND BOTTOM LANDS (1); CALCAREOUS SLOPES (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; , :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: QUERCUS VIRGINIANA

TAXONOMIC COMMENT:

COMMON NAME: LIVE OAK
FAMILY: FAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: QUERCUS VIRGINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS (1); SANDY, DRY TO WET SOIL, CHIEFLY NEAR THE COAST (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
EVERGREEN EXCEPT IN VERY SEVERE WINTERS (B68RAD01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRANOL080 SRANK: B2 PROTECTION STATUS:

NAME: RANUNCULUS AMBIGENS

TAXONOMIC COMMENT:

COMMON NAME: WATER-PLANTAIN SPEARWORT
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: ACHENE BEAKED (0.6-1.5 MM LONG BEAK) HORIZONTALLY, SMOOTH; SEPALS 5-7 MM LONG (VS. SHORTER), USUALLY 5; FLOWERS YELLOW; BASAL LEAVES DENTICULATE, LANCEOLATE (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RANUNCULUS AMBIGENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS, DITCHES AND SWAMPY WOODS (1); MARSHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA | HO Y | |
| QA Y | AA Y | CL | |
| CN Y | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRANOLOWO SRANK: PROTECTION STATUS: E

NAME: RANUNCULUS FLABELLARIS

TAXONOMIC COMMENT:

COMMON NAME: YELLOW WATER-CROWFOOT
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: PETALS YELLOW, 5-14 MM LONG ON LONG STOUT PEDUNCLES; PLANT USUALLY AQUATIC; STEMS COARSE, HOLLOW ; ACHENE TURGID, WITH A CORKY MARGIN; BASAL,CAULINE LVS SIMILAR, TERNATELY DECOMPOUND

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
VERNAL POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RANUNCULUS FLABELLARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS, RIVER BOTTOMS, CYPRESS SWAMPS (1); CYPRESS POOL (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE Y | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRANOL160 SRANK: PROTECTION STATUS: EE

NAME: RANUNCULUS HEDERACEUS

TAXONOMIC COMMENT:

COMMON NAME: LONG-STALKED CROWFOOT
FAMILY: RANUNCULACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL Y | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B63GLE01MD
COMMENTS:

SEARCH IMAGE: PETALS WHITE (OR WITH YELLOW AT BASE); LEAVES FLOATING, RENIFORM, SHALLOWLY 3-5 LOBED (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SPRING SEEP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RANUNCULUS HEDERACEUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: RANUNCULUS LONGIROSTRIS

TAXONOMIC COMMENT:

COMMON NAME: WHITE WATER-CROWFOOT
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PETALS WHITE; PLANTS WITH FINELY DISSECTED LEAVES ONLY; ACHENI BEAKED, USUALLY APPROXIMATELY 16, WITH BEAK 1 MM LONG (VS. SHORTER) (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RANUNCULUS LONGIROSTRIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SLOW STREAMS AND DITCHES (1); CALCAREOUS WATERS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRAN0L230 SRANK: PROTECTION STATUS: EE

NAME: RANUNCULUS PENSYLVANICUS

TAXONOMIC COMMENT:

COMMON NAME: BRISTLY CROWFOOT
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PETALS YELLOW, 2-5 MM LONG (VS. LONGER) 5 OR MORE SEPALS,PETA
DIST. SHORT. THAN SEPALS; LVS 3-LOBED, BASAL AND CAULINE LEAV
SIMILAR AND ALL STALKED; ACHENES FLAT W/SHARP MARGIN, SMOOTH

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
EMERGENT AND SCRUB-SHRUB NONTIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RANUNCULUS PENSYLVANICUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET MEADOWS, ALLUVIUM, DITCHES, ETC. (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRANOL270 SRANK: C PROTECTION STATUS:

NAME: RANUNCULUS PUSILLUS

TAXONOMIC COMMENT:

COMMON NAME: PURSH BUTTERCUP
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RANUNCULUS PUSILLUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS, DITCHES AND LOW WOODS (1); MARSHES, DITCHES AND SHALLOW POOLS (2); SHALLOW WATER OR WET SOIL OF SWAMPS, POOLS, DITCHES (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: X PROTECTION STATUS:

NAME: RANUNCULUS TRICHOPHYLLUS

TAXONOMIC COMMENT:

COMMON NAME: WATER-CROWFOOT
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PETALS WHITE; ACHENES RUGOSE, ESSENTIALLY BEAKLESS; PLANTS WI
FINELY DISSECTED LEAVES ONLY (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RANUNCULUS TRICHOPHYLLUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FRESH TO BRACKISH WATERS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-30 RAP UPDATE: 87-03-30 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDERI15040 SRANK: C PROTECTION STATUS:

NAME: RHODODENDRON ATLANTICUM

TAXONOMIC COMMENT:

COMMON NAME: DWARF AZALEA
FAMILY: ERICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: COROLLA LOBES SHORTER THAN TUBE, WHITE; BLOOMING PLANTS <50 C TALL, STOLONIFEROUS; FLOWERS BEFORE OR WITH LEAF EXPANSION (W CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RHODODENDRON ATLANTICUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS OR OPEN SANDY GROUND (1); FLAT PINE WOODS AND SAVANNAHS, USUALLY MOIST SITUATIONS AND OCCASIONALLY IN XERIC SANDHILLS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
HIGHLY VARIABLE FLOWER COLOR AND PUBESCENCE. (B68RAD01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: RHODODENDRON SERRULATUM

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: ERICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: 1-2 M TALL; FLOWERS AFTER LEAF EXPANSION

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHODODENDRON SERRULATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND LOW SANDY WOODS (1); BOGS, POCOSINS AND POND MARGINS (2).

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: RHYNCHOSIA DIFFORMIS

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RHYNCHOSIA DIFFORMIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS AND CLEARINGS (1);

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB3F0G0 SRANK: PROTECTION STATUS: E

NAME: RHYNCHOSIA TOMENTOSA

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: FABACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: STEM 4-SIDED; FLOWERS YELLOW, AXILLARY; LEAVES TRIFOLIATE (CL

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RHYNCHOSIA TOMENTOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN WOODS, ROADSIDES AND CLEARINGS (1); DRY SANDY WOODS AND BARRENS (2).

SOURCES: B68RAD01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N010 SRANK: C PROTECTION STATUS:

NAME: RHYNCHOSPORA ALBA

TAXONOMIC COMMENT:

COMMON NAME: WHITE BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA ALBA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS AND SWAMPS (1); BOGS (2); IN WATER OF SPHAGNUM BOGS (ESPECIALLY CRANBERRY) IN SANDY AND PEATY SOIL (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYPON0A0 SRANK: B2 PROTECTION STATUS:

NAME: RHYNCHOSPORA CEPHALANTHA

TAXONOMIC COMMENT:

COMMON NAME: CAPITATE BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: SPIKELETS 1-FLOWERED, GLOMERULES GLOBOSE; ACHENES < 3 MM, BRISTLES RETRORSELY BARBED (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MOIST, SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA CEPHALANTHA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST SANDY SOIL (1); BOGS, SAVANNAHS AND LOW PINELANDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N0B0 SRANK: C PROTECTION STATUS:

NAME: RHYNCHOSPORA CHALAROCEPHALA

TAXONOMIC COMMENT:

COMMON NAME: LOOSE-HEAD BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA CHALAROCEPHALA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SAVANNAHS, LOW PINELANDS AND BOGS (1); POND-MARGINS, WET PINELANDS AND DITCHES (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
OLD FRUIT PERSISTS. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N0F0 SRANK: B2 PROTECTION STATUS: E

NAME: RHYNCHOSPORA CORNICULATA

TAXONOMIC COMMENT: SIMILAR TO R. INUNDATA

COMMON NAME: SHORT-BRISTLED HORNEDRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: BRISTLES 5 AND SHORTER THAN ACHENE; BEAK 14-22 MM (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP

SOURCES: A86NAC01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RHYNCHOSPORA CORNICULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DITCHES, MARSHES AND SWAMP FORESTS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: |
|---|---|---|
| CE | HA | MO Y |
| KE | BA | HO |
| QA Y | AA | CL |
| CN | PG Y | FR |
| TA | CT | WA |
| DO Y | CH Y | AL |
| WI | SM | GA |
| SO Y | | |
| WO Y | | |

ALL

COMMENTS:

GENERAL COMMENTS:
IN SUNNY OPENINGS IN "SWAMPY WOODS" IN DELMARVA BAY REGION; ASSOCIATED W/ACER RUBRUM, NYSSA SYLVATICA, LIQUIDAMBAR, STYRACIFLUA, CAREX SPP.; MAY BE NORTHERNMOST POPULATION. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N0W0 SRANK: PROTECTION STATUS: E

NAME: RHYNCHOSPORA GLOBULARIS

TAXONOMIC COMMENT:

COMMON NAME: GRASS-LIKE BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:
MOIST SANDY SOIL (1)

SOURCES: A86NAC01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RHYNCHOSPORA GLOBULARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SAVANNAHS, DITCHES, MEADOWS AND LOW PINELANDS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ASSOCIATED WITH ALETRIS FARINOSA, DROSERA INTERMEDIA, POLYGALA CRUCIATA, POLYGALA MARIANA, RHYNCHOSPORA CAPITELLATA, SPIRANTHES LACERA. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N0X0 SRANK: PROTECTION STATUS: E

NAME: RHYNCHOSPORA GLOMERATA

TAXONOMIC COMMENT:

COMMON NAME: CLUSTERED BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
EMERGENT NON-TIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA GLOMERATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST SOIL (1); BOGS, DITCHES, SAVANNAHS AND LOW PINELANDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM Y | GA Y | |
| SO Y | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
FREQUENTLY FOUND ON STUMPS IN AN EAST TEXAS POND (A77NIX01MD)

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N0Y0 SRANK: C PROTECTION STATUS:

NAME: RHYNCHOSPORA GRACILENTA

TAXONOMIC COMMENT:

COMMON NAME: SLENDER BEAK RUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA GRACILENTA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW PINE WOODS AND PINE BARRENS (1); BOGS AND SAVANNAHS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: RHYNCHOSPORA INEXPANSA

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RHYNCHOSPORA INEXPANSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET DEPRESSIONS IN PINE WOODS (1); DITCHES, SAVANNAHS AND LOW PINELANDS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: RHYNCHOSPORA KNEISKERNII

TAXONOMIC COMMENT:

COMMON NAME: KNEISKERN'S BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
GLADE UNDER POWERLINE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA KNEISKERNII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ON IRON ORE IN PINE BARRENS (1); WET SOIL OF PINELAND BOGS OVER IRON DEPOSITS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0N0A1 SRANK: PROTECTION STATUS: EE

NAME: RHYNCHOSPORA MICROCEPHALA

TAXONOMIC COMMENT:

COMMON NAME: TINY-HEADED BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SPRING-FED BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: RHYNCHOSPORA MICROCEPHALA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS, SAVANNAHS AND PINELANDS (1); SWAMPS, SAVANNAHS AND WET PINELANDS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
IN MOIST, SANDY SOIL IN SUN. ASSOCIATED WITH JUNCUS CANADENSIS POLYGALA LUTEA, RHYNCHOSPORA CAPITELLATA. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSAX0T0L0 SRANK: B2 PROTECTION STATUS:

NAME: RIBES HIRTELLUM

TAXONOMIC COMMENT:

COMMON NAME: LOW WILD GOOSEBERRY
FAMILY: SAXIFRAGACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 2 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RIBES HIRTELLUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY OR SWAMPY WOODS AND CLEARINGS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS1J120 SRANK: B2/U PROTECTION STATUS:

NAME: ROSA SETIGERA

TAXONOMIC COMMENT:

COMMON NAME: PRAIRIE ROSE
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ALONG CREEK (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ROSA SETIGERA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
STREAM BANKS AND PASTURES (1); OPEN WOODS, THICKETS, CLEARINGS AND BANKS (2).

SOURCES: B83HOU01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS1J170 SRANK: C PROTECTION STATUS:

NAME: ROSA VIRGINIANA

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA ROSE
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: STIPULES ENTIRE, CILIATE; LEAFLETS 5 OR MORE, NOT GLANDULAR-DOTTED BENEATH; FLOWERS SOLITARY; STIPULAR PRICKLES CURVED DO WARD (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ROSA VIRGINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DAMP TO DRY THICKETS, CLEARINGS, SWAMPS AND SHORES (1); MOIST GROUNDS OF WOODS EDGES, WATERSIDES, SWAMP EDGES, RIVER BLUFFS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLYT0B030 SRANK: B3 PROTECTION STATUS:

NAME: ROTALA RAMOSIOR

TAXONOMIC COMMENT:

COMMON NAME: TOOTH-CUP
FAMILY: LYTHRACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: FLOWERS 1 PER AXIL; PETALS (4) 1 MM LONG (CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
VARIOUS WET AREAS: MARSH, POND, SWALE, ROADSIDE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ROTALA RAMOSIOR

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SHALLOW POOLS, WET MUDDY PLACES AND MOIST DUNE HOLLOWS (1);
MARSHES, DITCHES AND DEPRESSIONS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL Y | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST85040 SRANK: C PROTECTION STATUS:

NAME: RUDBECKIA FULGIDA

TAXONOMIC COMMENT:

COMMON NAME: ORANGE CONEFLOWER
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RUDBECKIA FULGIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY SOIL (1); WOODLANDS, MEADOWS, AND PASTURES (2); MOIST OR DRY, OPEN GROUND OF PASTURES, MEADOWS, FLOODPLAINS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST850H0 SRANK: C PROTECTION STATUS:

NAME: RUDBECKIA TRILOBA

TAXONOMIC COMMENT:

COMMON NAME: BROWN-EYED SUSAN
FAMILY: ASTERACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RUDBECKIA TRILOBA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS, PASTURES, THICKETS, ROADSIDES AND MEADOWS (1); WELL-DRAINED, MOIST, OPEN GROUND OF THIN WOODS AND SHADED EDGES, FIELDS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGN0P050 SRANK: B3 PROTECTION STATUS:

NAME: RUMEX ALTISSIMUS

TAXONOMIC COMMENT:

COMMON NAME: TALL DOCK
FAMILY: POLYGONACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 1 | MAYB 2 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 2 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES NOT SAGITTATE OR HASTATE; PEDICELS NOT MUCH LONGER THA
MATURE CALYX; FRUITING SEPALS WITH 1 GRAIN USUALLY, MARGIN NO
SPINY, OVATE-BROADLY ROUNDED (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SALT MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: RUMEX ALTISSIMUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROADSIDES AND WASTE PLACES (1); ALLUVIAL OR OTHER RICH SOIL (2).

SOURCES: B68RAD01MD, B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE Y | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDGEN0F070 SRANK: B2/X PROTECTION STATUS: EE

NAME: SABATIA CAMPANULATA

TAXONOMIC COMMENT:

COMMON NAME: SLENDER MARSH PINK
FAMILY: GENTIANACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SABATIA CAMPANULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS AND SALT MARSHES (1); SAVANNAHS AND BOGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDGEN0F0B0 SRANK: C PROTECTION STATUS:

NAME: SABATIA DODECANDRA

TAXONOMIC COMMENT:

COMMON NAME: LARGE MARSH PINK
FAMILY: GENTIANACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SABATIA DODECANDRA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BRACKISH MEADOWS AND ON TIDAL SHORES (1); SALINE, BRACKISH, OR RARELY FRESH MARSHES AND MEADOWS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA59020 SRANK: B2 PROTECTION STATUS: E

NAME: SACCIOLEPIS STRIATA

TAXONOMIC COMMENT:

COMMON NAME: SACCIOLEPIS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: CULMS CREEPING AND STOLONIFEROUS, NOT MATTED, 5-10 DM TALL (V
< 2 DM IN S. INDICA, A SOUTHERN SPECIES) (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WOODED FRESH MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SACCIOLEPIS STRIATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES AND PONDS (1); SHALLOW WATER OR MUDDY GROUND OF SWAMPS, DITCHES (2).

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI04040 SRANK: PROTECTION STATUS: T

NAME: SAGITTARIA CALYCINA

TAXONOMIC COMMENT: INCLUDES LOPHOTOCARPUS SPONGIOSUS AND L. CALYCINA

COMMON NAME: SPONGY LOPHOTOCARPUS
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: A85KAU01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: LEAVES SAGITTATE OR REDUCED; SEPALS APPRESSED TO THE FRUIT; PEDICELS OF LOWEST WHORLS OF FLWS RECURVED IN FRUIT (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
EXPOSED LAKE MUDFLAT (1); FRESH AND BRACKISH INTERTIDAL ZONES (2).

SOURCES: A85KAU01MD A80FER01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SAGITTARIA CALYCINA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MUDFLATS, PONDS AND MARSHES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE Y | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
SUBMERSED LEAVES LINEAR, FLOATING AND EMERGED LEAVES ELLIPTICAL THEN SAGITTATE; FECUND; USUALLY ON MUD, SOMETIMES ON PEAT. (A85KAU01MD) ASSOC. W/PELTANDRA VIRGINICA, SCIRPUS PUNGENS, ZIZANIA AQUATICA, SPARTINA ALTERNIFLORA. (A80FER01MD)

LAST LIT.SEARCH: BIO PREV: ; : .

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI04070 SRANK: PROTECTION STATUS: T

NAME: SAGITTARIA ENGELMANNIANA

TAXONOMIC COMMENT:

COMMON NAME: ENGELMANN'S ARROWHEAD
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: SEPALS REFLEXED IN FRUIT; LEAF SAGITTATE, LANCEOLATE-NARROWLY ELLIPTIC; BRACTS FIRM, ACUMINATE, SHORTER THAN PEDICELS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SPHAGNUM BOG AND MUCKY, OPEN WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SAGITTARIA ENGELMANNIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND DITCHES (1); WET SAND AND PEAT (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA Y | AA | CL | |
| CN Y | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI040A0 SRANK: C PROTECTION STATUS:

NAME: SAGITTARIA GRAMINEA

TAXONOMIC COMMENT:

COMMON NAME: GRASSLEAF ARROWHEAD
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SAGITTARIA GRAMINEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BORDERS OF PONDS, WET FIELDS AND MUDDY BANKS OF STREAMS (1);
SHALLOW, FRESH OR BRACKISH WATER AND MARSHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI04020 SRANK: B3 PROTECTION STATUS:

NAME: SAGITTARIA LONGIROSTRA

TAXONOMIC COMMENT:

COMMON NAME: LONG-BEAKED ARROWHEAD
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: FLOWERS IN 5-12 WHORLS, PEDICELS VERY THIN, FILIFORM; LEAVES SAGITTATE; SEPALS REFLEXED IN FRUIT; BRACTS > PEDICELS (KM,AR

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
MARSH; POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SAGITTARIA LONGIROSTRA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES, SWAMPS, MEADOWS, DITCHES AND POND MARGINS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI040S0 SRANK: C PROTECTION STATUS:

NAME: SAGITTARIA SUBULATA

TAXONOMIC COMMENT:

COMMON NAME: SUBULATE ARROWHEAD
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: FILAMENTS GLABROUS, WITHOUT SCALES; SEPALS REFLEXED IN FRUIT; LEAVES = LINEAR PHYLLODIA WITH FLOATING ENDS (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
TIDAL MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SAGITTARIA SUBULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
TIDAL MUD (1); TIDAL MUD FLATS AND MARSHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
USUALLY SUBMERSED AT HIGH TIDE. (A83RIE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALI040T0 SRANK: PROTECTION STATUS: EE

NAME: SAGITTARIA TERES

TAXONOMIC COMMENT:

COMMON NAME: SLENDER ARROWHEAD
FAMILY: ALISMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: PEDICELS ASCENDING IN FRUIT; PHYLLODIA TERETE (NOT FLAT), NODOSE (NODULAR) (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
EDGE OF WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SAGITTARIA TERES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ACID, SANDY PONDS AND BOGS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCHE0J030 SRANK: C PROTECTION STATUS:

NAME: SALICORNIA VIRGINICA

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA GLASSWORT
FAMILY: CHENOPODIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SALICORNIA VIRGINICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BRACKISH MARSHES (1); SANDY SEA-STRANDS AND BORDERS OF SALT MARSHES (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSAL020E0 SRANK: B2 PROTECTION STATUS:

NAME: SALIX BEBBIANA

TAXONOMIC COMMENT:

COMMON NAME: BEBB'S WILLOW
FAMILY: SALICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: CATKINS DEVELOP BEFORE LEAVES AND WITH LEAVES; LEAVES GRAY TO WHITE HAIRS BENEATH, RUGOSE SUBENTIRE TO UNDULATE-CRENATE, ELLIPTIC; VEGETATIVE ORGANS HAIRY WHEN FULL GROWN (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
DRY ROADSIDE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SALIX BEBBIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST TO DRY THICKETS (1); MOIST OR DRY GROUND OF WATER-SIDES, SHADED WOODS EDGES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSAL020M0 SRANK: C PROTECTION STATUS:

NAME: SALIX CAROLINIANA

TAXONOMIC COMMENT:

COMMON NAME: CAROLINA WILLOW
FAMILY: SALICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 1 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAF BLADES NOT SILKY, WHITISH BENEATH; PETIOLES UP TO 20 MM (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SALIX CAROLINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
STREAM BANKS AND LOW, MOIST AREAS (1); RIVER BANKS, SHORES AND LOW WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSAL02370 SRANK: B2 PROTECTION STATUS:

NAME: SALIX TRISTIS

TAXONOMIC COMMENT: SYN=S. HUMILIS VAR. MICROPHYLLA

COMMON NAME: DWARF PRAIRIE WILLOW
FAMILY: SALICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 1 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SMALL SHRUB (UP TO 1 M); LEAVES HAIRY BENEATH, BUT NOT RUGOSE SUB-ENTIRE, NARROWLY OBLANCEOLATE; VEGETATIVE ORGANS HAIRY WH FULL GROWN (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY OPEN AREAS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SALIX TRISTIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BALDS, ROADSIDES AND DITCHES (1); DRY, OFTEN SANDY GROUND OF UPLAND WOODS EDGES, BALDS, MEADOWS, ROADSIDES, BARRENS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1S1U0 SRANK: B2/X PROTECTION STATUS: EE

NAME: SALVIA URTICIFOLIA

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL Y | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SALVIA URTICIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY WOODLANDS, MOST FREQUENTLY ON BASIC OR CIRCUMNEUTRAL SOILS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDROS1L020 SRANK: C PROTECTION STATUS:

NAME: SANGUISORBA CANADENSIS

TAXONOMIC COMMENT:

COMMON NAME: CANADA BURNET
FAMILY: ROSACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SANGUISORBA CANADENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); BOGS AND WET MEADOWS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSAR02070 SRANK: PROTECTION STATUS: T

NAME: SARRACENIA PURPUREA

TAXONOMIC COMMENT:

COMMON NAME: NORTHERN PITCHER-PLANT
FAMILY: SARRACENIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: LEAVES PITCHER SHAPED (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG (1); WHITE CEDAR SWAMP (NHP)

SOURCES: A83SCH01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SARRACENIA PURPUREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SPAGHNUM BOGS AND MOIST SAVANNAHS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO Y | CH Y | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
NINE INFRASPECIFIC VARIANTS (3 ARE ACCEPTABLE), FLOWER MORPHOLOGY DISCUSSED IN SCHNELL. (A78SCH01MD, A79SCH01MD) ONE PLANT MAY PRODUCE 10,000 SEEDS IN ONE YEAR; K-SELECTED GROWTH STRATEGY. (A83SCH01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCR1Q010 SRANK: A2* PROTECTION STATUS:

NAME: SCHWALBEA AMERICANA

TAXONOMIC COMMENT:

COMMON NAME: CHAFFSEED
FAMILY: SCROPHULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: STEM LEAVES ALTERNATE, LANCEOLATE, ENTIRE, SESSILE; BRACTEAL LEAVES SUBTENDING FLOWERS OPPOSITE; FLOWERS SUBTENDED BY A PA OF BRACTLETS INSERTED AT BASE OF CALYX (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MOIST, SANDY EDGES OF BOGS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCHWALBEA AMERICANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SAVANNAHS AND PINE WOODLANDS (1); SANDY SOIL OF COASTAL PLAIN (2); PINE-OAK WOODS AND MARSHES (3).

SOURCES: B68RAD01MD B46TAT01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
CHROMOSOME NUMBER IN KONDO. (A72KON01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q010 SRANK: PROTECTION STATUS: EE

NAME: SCIRPUS ACUTUS

TAXONOMIC COMMENT:

COMMON NAME: HARD-STEM BULLRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCIRPUS ACUTUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q0E0 SRANK: B2 PROTECTION STATUS:

NAME: SCIRPUS CYLINDRICUS

TAXONOMIC COMMENT: SYN=S. MARITIMUS VAR. FERNALDI

COMMON NAME: SALT-MARSH BULRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
RIVER'S EDGE (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCIRPUS CYLINDRICUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SALINE TO BRACKISH MARSHES AND BRACKISH TO FRESH TIDAL SHORES (1); BRACKISH TIDAL MARSHES AND SHORES (2,3).

SOURCES: B50FER01MD A75SCH01MD A75FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN Y | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
DISTINCTIONS FROM OTHER SPECIES, PICTURE OF INFLORESCENCE, AND LINE DRAWING OF ACHENE IN SCHUYLER. RANGE COAST FROM MAINE TO GEORGIA. (A75SCH01MD) OLD FRUIT TO OCTOBER. (B83HOU01MD) ASSOCIATED SPECIES IN NACZI. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q0M0 SRANK: C PROTECTION STATUS:

NAME: SCIRPUS EXPANSUS

TAXONOMIC COMMENT:

COMMON NAME: WOODLAND BEAKRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCIRPUS EXPANSUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES AND STREAM BANKS (1); SPRINGHEADS, MEADOWS, BORDERS OF RILLS, AND LOW THICKETS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ASSOCIATED WITH CAREX STRICTA, IMPATIENS CAPENSIS, MIMULUS RINGENS, ONOCLEA SENSIBILIS, POLYGONUM SAGITTATUM, SAGITTARIA LATIFOLIA, SCIRPUS CYPERINUS, VERBENA HASTATA. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q190 SRANK: C PROTECTION STATUS:

NAME: SCIRPUS PURSHIANUS

TAXONOMIC COMMENT:

COMMON NAME: WEAKSTALK BULLRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SCIRPUS PURSHIANUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SHORES OF PONDS AND STREAMS OF THE COASTAL PLAIN (1);MARSHES AND SHALLOW POOLS (2); WET, OPEN, MUDDY, SANDY OR PEATY SOIL IN FRESH WATER OF WATERSIDES, BOGS, TIDEWATER STREAMS (3)

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q1F0 SRANK: B2 PROTECTION STATUS:

NAME: SCIRPUS SMITHII

TAXONOMIC COMMENT:

COMMON NAME: SMITH'S CLUBRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL DRA

PRIMARY HABITATS:
SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SCIRPUS SMITHII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY, PEATY OR MUDDY (OFTEN TIDAL EASTWARD) SHORES (1); WET, OPEN, MUDDY, SANDY OR PEATY SOILS IN FRESH WATER OF WATERSIDES, BOGS, TIDEWATER STREAMS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL Y | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
ASSOCIATED WITH FUIRENA PUMILA. (A86NAC01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q1G0 SRANK: PROTECTION STATUS: E

NAME: SCIRPUS SUBTERMINALIS

TAXONOMIC COMMENT:

COMMON NAME: WATER CLUBRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: A76BRO01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: CULMS NOT TRIANGULAR (TERETE, FLACCID); SPIKELETS APPEAR LATERAL, SOLITARY (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
LAKE (1,2)

SOURCES: A85ROB01MD A75TAN02MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SCIRPUS SUBTERMINALIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SLUGGISH STREAMS, POOLS AND PONDS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
COMMON IN ACIDIC LAKES IN N.Y. (A85ROB01MD) OFTEN SUBMERSED; LARGE COLONIES IN MUCK-MARL BOTTOM OF WIS. LAKE.(A75TAN02MD) OVERLOOKED DUE TO GRASS-LIKE APPEARANCE OF SUBMERSED BASAL LEAVES; ON PEATY, LITTORAL SHELF OF OHIO LAKE. (A76BRO01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0R0C0 SRANK: B1 PROTECTION STATUS: E

NAME: SCLERIA MINOR

TAXONOMIC COMMENT:

COMMON NAME: SLENDER NUTRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:
WET MEADOW; MOIST PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SCLERIA MINOR

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); IN WET SAND OR PEAT OF PINELAND SWAMPS AND
BOGS (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B2 PROTECTION STATUS:

NAME: SCLERIA MUHLENBERGI

TAXONOMIC COMMENT: SYN=S. RETICULARIS

COMMON NAME: RETICULATED NUTRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL DRA

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SCLERIA MUHLENBERGI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PINE BARRENS AND SWAMPY WOODS OF THE COASTAL PLAIN (1); BOGS, SPHAGNOUS SWALES, AND WET PINELANDS (2); MEADOWS, PINELANDS AND SAVANNAHS (3).

SOURCES: B46TAT01MD B50FER01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-04 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN PROTECTION STATUS:

NAME: SCLERIA OLIGANTHA

TAXONOMIC COMMENT:

COMMON NAME: FEW-FLOWERED NUTRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCLERIA OLIGANTHA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODS (1); RICH OR MOIST WOODS AND CLEARINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYPOROGO SRANK: C PROTECTION STATUS:

NAME: SCLERIA PAUCIFLORA

TAXONOMIC COMMENT:

COMMON NAME: FEWFLOWER NUTRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION?
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCLERIA PAUCIFLORA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS, DRY SAND AND SERPENTINE SOIL (1); MEADOWS, PINELANDS AND LOW SAVANNAHS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0R0K0 SRANK: B2 PROTECTION STATUS:

NAME: SCLERIA RETICULARIS

TAXONOMIC COMMENT: SYN=S. MUHLENBERGI

COMMON NAME: RETICULATED NUTRUSH
FAMILY: CYPERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: ACHENE WHITE, RETICULATE (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL DRA

PRIMARY HABITATS:
DELMARVA BAY (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCLERIA RETICULARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS, PINELANDS AND SAVANNAHS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA Y | AA | CL Y | |
| CN Y | PG Y | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:
EXPOSED MUD FLAT OF CENTRIPETALLY-DRAINED MICHIGAN LAKE; FORMING SOLID STAND OF A FEW SQUARE METERS; U.S. DISTRIBUTION IN PIERCE AND PIPPEN. (A77PIE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1U0R0 SRANK: B2 PROTECTION STATUS:

NAME: SCUTELLARIA LEONARDII

TAXONOMIC COMMENT: SYN=S. PARVULA VAR. LEONARDII

COMMON NAME: LEONARD'S SKULLCAP
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCUTELLARIA LEONARDII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY ROCKY SOIL (1); LOW WOODS AND FIELDS, USUALLY ON BASIC SOIL (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR Y | |
| TA | CT | WA Y | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1U110 SRANK: PROTECTION STATUS: EE

NAME: SCUTELLARIA PARVULA

TAXONOMIC COMMENT:

COMMON NAME: SMALL SKULLCAP
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: FLOWERS SOLITARY IN AXILS OF ORDINARY LEAVES; LEAVES 1-2 CM LONG (KM,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY, SANDY WOODLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SCUTELLARIA PARVULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, SANDY SOIL (1); LOW WOODS AND FIELDS (2).

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8H040 SRANK: B3 PROTECTION STATUS:

NAME: SENECIO ANONYMUS

TAXONOMIC COMMENT: SYN=S. SMALLII

COMMON NAME: SMALL'S RAGWORT
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
OLD FIELDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SENECIO ANONYMUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SERPENTINE BARRENS (1); MEADOWS, PASTURES, ROADSIDES, WOODLAND AND SAVANNAHS (2); OPEN WOODS, THICKETS, CLEARINGS, FIELDS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL Y | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM Y | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAIZ0E030 SRANK: B3 PROTECTION STATUS:

NAME: SESUVIUM MARITIMUM

TAXONOMIC COMMENT:

COMMON NAME: SEA-PURSLANE
FAMILY: AIZOACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: FLOWERS AND FRUITS SESSILE; LEAVES OPPOSITE, SUCCULENT, GLABROUS; STIPULES ABSENT; CAPSULE MANY-SEEDED (AR,KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SALT PANS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SESUVIUM MARITIMUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDS OF THE SEASHORE (1); SANDY BEACHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDBRA2A050 SRANK: B2/U PROTECTION STATUS:

NAME: SIBARA VIRGINICA

TAXONOMIC COMMENT:

COMMON NAME: VIRGINIA CRESS
FAMILY: BRASSICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 1 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 1 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 3 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 3 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SIBARA VIRGINICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DISTURBED SOILS, MOSTLY IN LOW FIELDS (1); SANDY OR ROCKY SOIL, DRY OPEN WOODS, CLEARINGS, AND CULTIVATED FIELDS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCAR0U120 SRANK: B1 PROTECTION STATUS:

NAME: SILENE NIVEA

TAXONOMIC COMMENT:

COMMON NAME: SNOWY CAMPION
FAMILY: CARYOPHYLLACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B63GLE01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:
DAMP WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SILENE NIVEA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS AND ALLUVIUM (1); WOODS (2).

SOURCES: B50FER01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: SILPHIUM COMPOSITUM

TAXONOMIC COMMENT:

COMMON NAME: ROSINWEED
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SILPHIUM COMPOSITUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS, THICKETS AND OLD FIELDS (1); DRY OPEN WOODS AND CLEARINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: C PROTECTION STATUS:

NAME: SILPHIUM TRIFOLIATUM

TAXONOMIC COMMENT:

COMMON NAME: THREE-LEAVED ROSINWEED
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SILPHIUM TRIFOLIATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS, PASTURES AND OLD FIELDS (1); WOODS, THICKETS AND OPENINGS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMIRI0D040 SRANK: B2/X PROTECTION STATUS:

NAME: SISYRINCHIUM ARENICOLA

TAXONOMIC COMMENT:

COMMON NAME: SAND BLUEEYED-GRASS
FAMILY: IRIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY FIELDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SISYRINCHIUM ARENICOLA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY SOIL, WOODLANDS, SAVANNAHS (1); DRY, MOSTLY SANDY SOIL ON OR NEAR COASTAL PLAIN (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMSMI01030 SRANK: C PROTECTION STATUS:

NAME: SMILAX BONA-NOX

TAXONOMIC COMMENT:

COMMON NAME: SAW GREENBRIER
FAMILY: SMILACACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 3 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SMILAX BONA-NOX

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY PINE WOODS AND CLEARINGS (1); DRY TO MOIST SAND OF DUNES, CLEARINGS, FIELDS, AND THICKETS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMSMI010H0 SRANK: PROTECTION STATUS: E

NAME: SMILAX PSEUDO-CHINA

TAXONOMIC COMMENT: SYN=S. TAMNIFOLIA

COMMON NAME: HALBERD-LEAVED GREENBRIER
FAMILY: SMILACACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: PEDUNCLES AT LEAST 3-4 CM.; TENDRILS PRESENT; LEAF BASE CORDAT (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SPHAGNOUS AREAS, BOGS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SMILAX PSEUDO-CHINA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST SANDY SOIL (1); SPHAGNOUS SWALES, BOGS, BORDERS OF LOW WOODS OR DAMP SANDS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMSMI010R0 SRANK: PROTECTION STATUS: E

NAME: SMILAX WALTERI

TAXONOMIC COMMENT:

COMMON NAME: RED-BERRIED GREENBRIER
FAMILY: SMILACACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 0 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: PEDUNCLES < 3 CM; FRUIT RED; TENDRILS PRESENT; LEAF BASE ROUNDED, NOT CORDATE OR HASTATE (WT,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SMILAX WALTERI

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMP FORESTS AND ALLUVIAL WOODS; FREQUENT TO RARE IN BOGS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH Y | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8P0K0 SRANK: C PROTECTION STATUS:

NAME: SOLIDAGO ELLIOTTII

TAXONOMIC COMMENT:

COMMON NAME: ELLIOTT GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 1 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WET MEADOW (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SOLIDAGO ELLIOTTII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POCOSINS, BOGS, WET PINE BARRENS AND SANDHILL ECOTONES (1); WELL-DRAINED GROUND WITH A CONSTANT HIGH WATER TABLE SUCH AS ON HUMMOCKS IN FRESH OR BRACKISH WATER OF COASTAL MARSHES(2)

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8P0V0 SRANK: B3 PROTECTION STATUS:

NAME: SOLIDAGO HISPIDA

TAXONOMIC COMMENT:

COMMON NAME: HAIRY GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
CHESTNUT OAK COMMUNITY; GLADE IN WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE Y |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SOLIDAGO HISPIDA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY OR MOIST ROCKY PLACES, CHIEFLY CALCAREOUS (1); WELL-DRAINED, DRY, ROCKY, OFTEN LIMESTONE GROUND OF WATERSIDES (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
A POORLY DEFINED SPECIES. BRITTON'S OLD RECORDS FROM UNION, OCEAN, ATLANTIC AND HUDSON COUNTIES HAVE BEEN DOUBTED AND MAY BE SOLIDAGO ERECTA OR HYBRIDS. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: SOLIDAGO PINETORUM

TAXONOMIC COMMENT:

COMMON NAME: PINEWOODS GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SOLIDAGO PINETORUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS, OLD FIELDS, AND ROAD BANKS (1); DRY, OPEN SOIL AND WOODLANDS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8P1G0 SRANK: C PROTECTION STATUS:

NAME: SOLIDAGO PUBERULA

TAXONOMIC COMMENT:

COMMON NAME: DOWNY GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B46TAT01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SOLIDAGO PUBERULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN, SANDY SOIL (1); DRY OR PEATY STERILE SOIL, SANDS, ROCKY BARRENS, ETC. (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8P1X0 SRANK: PROTECTION STATUS: E

NAME: SOLIDAGO SPECIOSA

TAXONOMIC COMMENT:

COMMON NAME: SHOWY GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: A73ABR01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DAMP WOODS, DRY TO MOIST THICKETS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SOLIDAGO SPECIOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DECIDUOUS FOREST (1); PASTURES, ROAD BANKS, OLD FIELDS AND WOODLAND BORDERS (2).

SOURCES: A73ABR01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT Y | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
IN MASS. HARDWOOD COMMUNITY WITH BETULA, QUERCUS, ACER, VACCINIUM; GROWTH FORM AND REPRODUCTIVE EFFORT IN ABRAHAMSON AND GADGIL. (A73ABR01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: SOLIDAGO TORTIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: TWISTED-LEAVED GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SOLIDAGO TORTIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PINE BARRENS AND SAVANNAHS (1); DRY OPEN SOIL AND OPEN WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8P230 SRANK: C PROTECTION STATUS:

NAME: SOLIDAGO ULIGINOSA

TAXONOMIC COMMENT: INCLUDES S. PURSHII

COMMON NAME: BOG GOLDENROD
FAMILY: ASTERACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 1 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC Y | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SOLIDAGO ULIGINOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGGY OR WET HABITATS (1); ACID SWAMPS, MEADOWS AND MOIST TO DRYISH THICKETS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMSPA01020 SRANK: C PROTECTION STATUS:

NAME: SPARGANIUM ANDROCLADUM

TAXONOMIC COMMENT:

COMMON NAME: BRANCHING BUR-REED
FAMILY: SPARGANIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SPARGANIUM ANDROCLADUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MUDDY OR PEATY SHORES, SWAMPS OR SHALLOW WATER (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA5T040 SRANK: C PROTECTION STATUS:

NAME: SPHENOPHOLIS PENSYLVANICA

TAXONOMIC COMMENT: SYN=TRISETUM PENSYLVANICUM

COMMON NAME: SWAMP-OATS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SPHENOPHOLIS PENSYLVANICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS AND LOW GROUND (1); BOGS, DITCHES, LOW WOODS (2); WET SOIL OF WOODED SWAMPS, SPRINGY AND GRASSY SPOTS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
GRAIN NOT SEEN. (B68RAD01MD)

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC2B0E0 SRANK: B2/U PROTECTION STATUS:

NAME: SPIRANTHES LACINIATA

TAXONOMIC COMMENT:

COMMON NAME: LACE-LIP LADIES'-TRESSES
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS STRONGLY SPIRALED, WHITE (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SPIRANTHES LACINIATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
CYPRESS SWAMPS, MARSHES, AND POOLS (1); BOGS, MARSHES, SHALLOW PONDS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC2B0U0 SRANK: B2/U PROTECTION STATUS:

NAME: SPIRANTHES PRAECOX

TAXONOMIC COMMENT:

COMMON NAME: GRASS-LEAVED LADIES'-TRESSES
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: FLOWERS STRONGLY SPIRALED, WHITE OR WHITE-VEINED (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
FRESH MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: SPIRANTHES PRAECOX

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS, BOGS, POCOSINS AND WET SAVANNAHS (1); MEADOWS, SWALES AND OPEN WOODS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC2B0Y0 SRANK: C PROTECTION STATUS:

NAME: SPIRANTHES TUBEROSA

TAXONOMIC COMMENT:

COMMON NAME: LITTLE LADIES'-TRESSES
FAMILY: ORCHIDACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWERS SINGLE-RANKED, TWISTED, WHITE, NO SPURS; LIP < 4 MM LONG (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY Y | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SPIRANTHES TUBEROSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, CHIEFLY SANDY OR ARGILLACEOUS FIELDS AND BORDERS OF WOODS (1); WELL-DRAINED SLOPES AND MEADOWS (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
KEY TO SPIRANTHES IN HENRY. BLOOMS MOSTLY IN SEPTEMBER. (A75HEN02MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA5V030 SRANK: B2 PROTECTION STATUS:

NAME: SPOROBOLUS ASPER

TAXONOMIC COMMENT:

COMMON NAME: LONG-LEAVED RUSHGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
ROADSIDE, RAILROAD RIGHTS-OF-WAY (1)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SPOROBOLUS ASPER

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BEACH, CEDAR GLADE, PRAIRIE, GRASSLAND (1); DRY, OPEN GROUND SUCH AS GRASSLANDS; OFTEN FOUND AS A WEED IN LOW SANDY SOIL AND DUNES (2).

SOURCES: A77RIG01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO | |
| QA Y | AA Y | CL | |
| CN | PG | FR | |
| TA Y | CT | WA Y | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
A DOMINANT IN OKLAHOMA TALL-GRASS PRAIRIE. (A74CON01MD)
A PRAIRIE INDICATOR SPECIES.(A85AUF01MD) (A79NIC01MD)
LINE DRAWING, DISTRIBUTION, TAXONOMIC TREATMENT IN RIGGINS. (A77RIG01MD) MOSTLY ON LOWER SLOPES. (A71STR01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA5V050 SRANK: B2 PROTECTION STATUS:

NAME: SPOROBOLUS CLANDESTINUS

TAXONOMIC COMMENT:

COMMON NAME: ROUGH RUSHGRASS
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SPOROBOLUS CLANDESTINUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
IN DRY SAND (1); OPEN WOODLAND AND ROADSIDES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN Y | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: SPOROBOLUS CRYPTANDRUS

TAXONOMIC COMMENT:

COMMON NAME: SAND DROPSEED
FAMILY: POACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SPOROBOLUS CRYPTANDRUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY SOIL OF THE COAST (1); DRY, USUALLY SANDY, OPEN GROUND (2).

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1X050 SRANK: PROTECTION STATUS: EE

NAME: STACHYS ASPERA

TAXONOMIC COMMENT:

COMMON NAME: ROUGH HEDGE-NETTLE
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B63GLE01MD
COMMENTS:

SEARCH IMAGE: STEMS COPIOUSLY HISPID ON ANGLES, 50-130 CM TALL; LEAVES LANCEOLATE-OBLANCEOLATE, 1-3 CM WIDE, SERRATE (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS: OBL

PRIMARY HABITATS:
GRASSY BANK (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STACHYS ASPERA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MOIST SOILS (1);

SOURCES: B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC U LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM Y | GA | |
| SO Y | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
NOMENCLATURE CONFUSED AND UNSTABLE: S. HYSSOPIFOLIA VAR. AMBIGENS (OF GRAY'S MANUAL) WHICH = S. ASPERA (OF GLEASON AND CRONQUIST'S MANUAL) HAS BEEN CHANGED TO VAR. TENNUIFOLIA OF S. TENNUIFOLIA. (B83HOU01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1X0P0 SRANK: B1 PROTECTION STATUS:

NAME: STACHYS CORDATA

TAXONOMIC COMMENT: SYN=S. NUTTALLII AND S. RIDDELLII

COMMON NAME: NUTTALL'S HEDGE-NETTLE
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
EDGE OF MARSH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STACHYS CORDATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODED BOTTOMLANDS, RICH THICKETS AND SHADED LOW GROUND (1);
LOW MEADOWS AND BOGS (2).

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1X0K0 SRANK: B2 PROTECTION STATUS:

NAME: STACHYS HYSSOPIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: HYSSOP-LEAVED HEDGE-NETTLE
FAMILY: LAMIACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: LEAVES NEARLY ENTIRE, NEARLY SESSILE, LINEAR-ELLIPTIC, 3-9 MM WIDE; STEM GLABROUS (AR,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BORDER OF STREAM (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STACHYS HYSSOPIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS AND POND MARGINS (1); MOIST MEADOWS AND MARSHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO | |
| QA Y | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM1X130 SRANK: B1 PROTECTION STATUS:

NAME: STACHYS LATIDENS

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
EMERGENT NON-TIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STACHYS LATIDENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BROOKSIDES AND MEADOWS (1); WOODLANDS, ROAD BANKS, MARSHES AND LOW MEADOWS (2).

SOURCES: B50FER01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCAR0X020 SRANK: PROTECTION STATUS: EE

NAME: STELLARIA ALSINE

TAXONOMIC COMMENT:

COMMON NAME: TRAILING STITCHWORT
FAMILY: CARYOPHYLLACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
COLD, SPRING-FED WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STELLARIA ALSINE

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SEEPAGES (1); MOIST GROUND OF COLD, SPRINGY PLACES, WATERSIDES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD Y UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLIL1W010 SRANK: PROTECTION STATUS: T

NAME: STENANTHIUM GRAMINEUM

TAXONOMIC COMMENT:

COMMON NAME: FEATHERBELLS
FAMILY: LILIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STENANTHIUM GRAMINEUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THIN WOODLANDS, CUT-OVER WOODLAND BORDERS AND MEADOWS, USUALLY IN SMALL COLONIES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO Y | ALL |
| KE | BA | HO Y | |
| QA | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: XN* PROTECTION STATUS:

NAME: STEWARTIA OVATA

TAXONOMIC COMMENT:

COMMON NAME: MOUNTAIN CAMELLIA
FAMILY: THEACEAE

| HABIT: | ANNUAL | HERB | VINE | EVERGREEN |
|---|---|---|---|---|
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: STEWARTIA OVATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RIVER BLUFFS AND WOODED STREAM MARGINS (1); RICH WOODS AND STREAM BANKS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCHE0P050 SRANK: C PROTECTION STATUS:

NAME: SUAEDA LINEARIS

TAXONOMIC COMMENT:

COMMON NAME: TALL SEA-BLITE
FAMILY: CHENOPODIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| ANNUAL Y | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SUAEDA LINEARIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDS OF THE COAST (1); MOIST SAND DUNES OR BRACKISH MARSHES (2); MOIST OR WET, SALINE, SANDY GROUND OF TIDAL MARSHES, DUNE HOLLOWS, DITCHES (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSYM01040 SRANK: C PROTECTION STATUS:

NAME: SYMPLOCOS TINCTORIA

TAXONOMIC COMMENT:

COMMON NAME: HORSE-SUGAR
FAMILY: SYMPLOCACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 0 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 0 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: LEAVES SWEET TASTING; FLOWERS IN SESSILE, LATERAL CLUSTERS; COROLLA YELLOW (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FACW

PRIMARY HABITATS:
DAMP WOODS WITH ILEX SPECIES (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: SYMPLOCOS TINCTORIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH DRY OR SWAMPY GROUND (1); SANDY THICKETS, UPLANDS OR ALLUVIAL WOODS AND STREAM MARGINS (2)

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPOR080K0 SRANK: B2 PROTECTION STATUS:

NAME: TALINUM TERETIFOLIUM

TAXONOMIC COMMENT:

COMMON NAME: FAMEFLOWER
FAMILY: PORTULACACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY MOORLAND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE Y |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TALINUM TERETIFOLIUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY SERPENTINE BARRENS (1); ROCK OUTCROPS (2); DRY ROCKS (OFTEN SERPENTINE) AND SANDS (3).

SOURCES: B46TAT01MD B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL Y | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFAB3X0K0 SRANK: B2/X PROTECTION STATUS: EE

NAME: TEPHROSIA SPICATA

TAXONOMIC COMMENT:

COMMON NAME:
FAMILY: FABACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: STEM RECLINING OR LOOSELY ASCENDING; RACHIS NOT FLATTENED, NOT DENSE; FLOWER WITHOUT YELLOW STANDARD (KM,WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
PINE WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TEPHROSIA SPICATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, SANDY ROADSIDES (1); ROADSIDES, OPEN WOODS AND CLEARINGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRANOM060 SRANK: B1/U PROTECTION STATUS:

NAME: THALICTRUM DASYCARPUM

TAXONOMIC COMMENT:

COMMON NAME: PURPLE MEADOWRUE
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B63GLE01MD
COMMENTS:

SEARCH IMAGE: LEAFLETS 3-LOBED APICALLY, PUBERULENT BENEATH; ANTHERS > 1.5 M LONG; FLOWERS IMPERFECT (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FAC

PRIMARY HABITATS:
DAMP THICKETS, SWAMPS, WET MEADOWS

SOURCES: A76KEE01MD
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: THALICTRUM DASYCARPUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
TAXONOMIC KEY IN KEENER. REGARDS IT AS A POLYMORPHIC SPECIES OCCURRING CHIEFLY IN THE CENTRAL-NORTHWESTERN U.S. AND ADJACENT CANADA, BUT INFREQUENT IN SOUTHEAST U.S. (A76KEE01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRANOMOBO SRANK: B1/U PROTECTION STATUS:

NAME: THALICTRUM MACROSTYLUM

TAXONOMIC COMMENT:

COMMON NAME: PIEDMONT MEADOW-RUE
FAMILY: RANUNCULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B63GLE01MD
COMMENTS:

SEARCH IMAGE: FLOWERS IMPERFECT; LEAFLETS PREDOMINANTLY ENTIRE OR WITH 2-3 LOBES; GLABROUS BENEATH (AR,KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: FACW

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: THALICTRUM MACROSTYLUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH WOODS AND LOW MEADOWS (1); MOIST OR WET SOIL (2).

SOURCES: B68RAD01MD B63GLE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
DIOECIOUS. (B68RAD01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAPI28030 SRANK: B2 PROTECTION STATUS:

NAME: THASPIUM TRIFOLIATUM

TAXONOMIC COMMENT:

COMMON NAME: PURPLE MEADOW-PARSNIP
FAMILY: APIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: THASPIUM TRIFOLIATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MIXED DECIDUOUS FORESTS (1); OPEN GROUND OF MIXED DECIDUOUS WOODS, SOMETIMES LOW MARSHES (2).

SOURCES: B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA Y | MO | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: C PROTECTION STATUS:

NAME: THELYPTERIS SIMULATA

TAXONOMIC COMMENT: SYN=DRYOPTERIS SIMULATA

COMMON NAME: BOG FERN
FAMILY: ASPLENIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 1 | OCTA 1 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
WOODED SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: THELYPTERIS SIMULATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS AND MOIST WOODS (1); BOGGY OR SWAMPY WOODS AND THICKETS OR ON KNOLLS IN BOGS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: SRANK: B1 PROTECTION STATUS: EE

NAME: TILLAEA AQUATICA

TAXONOMIC COMMENT: SYN=CRASSULA AQUATICA

COMMON NAME: PYGMYWEED
FAMILY: CRASSULACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL Y | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TILLAEA AQUATICA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MUDDY SHORES (1); MARGINS OF POOLS AND ON FRESH TO TIDAL SHORES (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMBR0090H0 SRANK: B1/X PROTECTION STATUS:

NAME: TILLANDSIA USNEOIDES

TAXONOMIC COMMENT:

COMMON NAME: SPANISH MOSS
FAMILY: BROMELIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: HANGING GREY, ROOTLESS EPIPHYTE; STEMS WIRY; LEAVES FILIFORM (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TILLANDSIA USNEOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS AND MARITIME FORESTS (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
TEMPERATURE AND HUMIDITY ARE PRIMARY RANGE LIMITING FACTORS; LIMITED TO FORESTS W/ PREFERENCE FOR CYPRESS AND HARDWOOD SPP. DUE TO HIGHER RATES OF FOLIAR MINERAL LEACHING THAN FOR PINES. (A77SCH01MD) REPRODUCES BY FRAGMENTATION, SEED. (A68GUA01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-03-27 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLIL1Y050 SRANK: PROTECTION STATUS: EE

NAME: TOFIELDIA RACEMOSA

TAXONOMIC COMMENT:

COMMON NAME: COASTAL FALSE ASPHODEL
FAMILY: LILIACEAE

| HABIT: | | | |
|---|---|---|---|
| ANNUAL | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 2 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SCAPE SCABROUS; PEDICELS MINUTELY GLANDULAR, IN CLUSTERS OF 2-4; CAPSULE EQUAL TO OR SHORTER THAN PERIANTH (AR)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: TOFIELDIA RACEMOSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET GROUND OR SHALLOW WATER (1); SAVANNAHS AND POCOSINGS (2); BOGGY CLEARINGS (3).

SOURCES: B46TAT01MD B68RAD01MD A73HAR01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAPOOQ010 SRANK: B2/X PROTECTION STATUS:

NAME: TRACHELOSPERMUM DIFFORME

TAXONOMIC COMMENT:

COMMON NAME: CLIMBING DOGBANE
FAMILY: APOCYNACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: WOODY VINE; FOLLICLES IN PAIRS, EXTREMELY LONG AND LINEAR; LEAVES OPPOSITE, TIPS ALTERNATE-DISTINCT (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
BEACH (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TRACHELOSPERMUM DIFFORME

SOURCES:
COMMENTS:

SECONDARY HABITATS:
STREAM BANKS, MARSHES, SWAMP MARGINS AND ALLUVIAL WOODS (1); SWAMPS AND LOW GROUND, TWINING HIGH OVER SHRUBS AND TREES (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCLU06020 SRANK: B1 PROTECTION STATUS:

NAME: TRIADENUM TUBULOSUM

TAXONOMIC COMMENT: SYN=HYPERICUM TUBULOSUM

COMMON NAME: LARGE MARSH ST. JOHN'S WORT
FAMILY: CLUSIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SWAMP (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: TRIADENUM TUBULOSUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); CYPRESS- AND GUM-SWAMPS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA Y | MO | ALL |
| KE Y | BA | HO | |
| QA | AA Y | CL | |
| CN Y | PG | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : .

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLAM220D0 SRANK: B2 PROTECTION STATUS:

NAME: TRICHOSTEMA SETACEUM

TAXONOMIC COMMENT:

COMMON NAME: NARROW-LEAVED BLUECURLS
FAMILY: LAMIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 2 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 0 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 2 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: LEAVES < 5 MM WIDE, 5 X OR MORE LONGER THAN WIDE; COROLLAS 6-10 MM (KM,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY SOIL (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TRICHOSTEMA SETACEUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ROCKY BANKS OR DRY SANDY SOIL (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE Y | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA Y | |
| DO | CH | AL Y | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMSCH03060 SRANK: B2/X PROTECTION STATUS: EE

NAME: TRIGLOCHIN STRIATUM

TAXONOMIC COMMENT: SYN=TRIGLOCHIN STRIATA

COMMON NAME: THREE-RIBBED ARROWGRASS
FAMILY: SCHEUCHZERIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: OVARIES 3; FRUIT SUBGLOBOSE (LINEAR IN T. PALUSTRIS) (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SALT MARSH; SHADED POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TRIGLOCHIN STRIATUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SALT MARSHES NEAR THE COAST (1); BRACKISH MARSHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCPR06010 SRANK: B2 PROTECTION STATUS:

NAME: TRIOSTEUM ANGUSTIFOLIUM

TAXONOMIC COMMENT:

COMMON NAME: NARROW-LEAVED HORSE-GENTIAN
FAMILY: CAPRIFOLIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 1 | JUNA 1 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 1 | JUNB 1 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
DRY WOODS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL Y | LOAM | SHALE |
| XERIC Y | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TRIOSTEUM ANGUSTIFOLIUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY WOODS (1); DECIDUOUS OR MIXED WOODS OR OPENINGS ON BASIC OR CIRCUMNEUTRAL SOILS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE Y | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA Y | CL | |
| CN | PG Y | FR Y | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA Y | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMTYP01030 SRANK: C PROTECTION STATUS:

NAME: TYPHA DOMINGENSIS

TAXONOMIC COMMENT:

COMMON NAME: SOUTHERN CATTAIL
FAMILY: TYPHACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES NEARLY FLAT (NOT PLANO-CONVEX)

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC Y | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: TYPHA DOMINGENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
ALKALINE BRACKISH MARSHES AND SWAMPS (1); BRACKISH TO FRESH MARSHES AND POOLS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDULM04010 SRANK: XN PROTECTION STATUS:

NAME: ULMUS ALATA

TAXONOMIC COMMENT:

COMMON NAME: WINGED ELM
FAMILY: ULMACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE Y | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 1 | MAYA 0 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 2 | MAYB 0 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 2 | JUNA 0 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 1 | APRB 3 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: ULMUS ALATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
USUALLY ON UPLAND SOILS; OCCASIONALLY ALONG RIVERS AND STREAMS (1); LOW, RARELY UPLAND, WOODLANDS AND THICKETS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLNT02020 SRANK: PROTECTION STATUS: E

NAME: UTRICULARIA BIFLORA

TAXONOMIC COMMENT:

COMMON NAME: TWO-FLOWERED BLADDERWORT
FAMILY: LENTIBULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 2 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B68RAD01MD
COMMENTS:

SEARCH IMAGE: COROLLA YELLOW; SCAPE TO 10 CM TALL (>15 CM IN U. FIBROSA) (KN WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SHALLOW POOLS; BOGGY STREAM MARGINS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: UTRICULARIA BIFLORA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SHALLOW POOLS, PONDS AND DITCHES (1);

SOURCES: B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLNT02030 SRANK: B1 PROTECTION STATUS:

NAME: UTRICULARIA CORNUTA

TAXONOMIC COMMENT:

COMMON NAME: HORNED BLADDERWORT
FAMILY: LENTIBULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: SPUR OF COROLLA VERY LONG (7-14 MM, USUALLY 9-10 MM) AND DIRECTED DOWNWARD: COROLLA LONG (9-16 MM, USUALLY 13 MM) (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
SHALLOW WATER (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: UTRICULARIA CORNUTA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET SHORES (1); BOGS AND SANDY DEPRESSIONS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLNT02040 SRANK: B3 PROTECTION STATUS:

NAME: UTRICULARIA FIBROSA

TAXONOMIC COMMENT:

COMMON NAME: FIBROUS BLADDERWORT
FAMILY: LENTIBULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 3 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: FLOWER SPUR EQUALING OR LONGER THAN LOWER LIP; FLOWER YELLOW; SCAPE 15-40 CM TALL (KM)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG; MILLPOND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: UTRICULARIA FIBROSA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DITCHES AND PONDS, IN SHALLOW WATER (1); BOGS, PONDS AND DITCHES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA Y | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; : :

FORM FILLED: 87-03-30 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLNT02080 SRANK: C PROTECTION STATUS:

NAME: UTRICULARIA GIBBA

TAXONOMIC COMMENT:

COMMON NAME: HUMPED BLADDERWORT
FAMILY: LENTIBULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| ANNUAL Y | HERB Y | VINE | EVERGREEN |
| BIENNIAL | SHRUB | | |
| PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: UTRICULARIA GIBBA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MUD OR SHALLOW WATER (1); SHALLOW POOLS (2); AQUATIC PLANT OF SHALLOW, QUIET WATER OF BOGS, POOLS, SPRINGHEADS (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-05-01 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLNT02090 SRANK: B2 PROTECTION STATUS:

NAME: UTRICULARIA INFLATA

TAXONOMIC COMMENT:

COMMON NAME: SWOLLEN BLADDERWORT
FAMILY: LENTIBULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 2 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 2 | SEPB 2 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 2 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 2 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD
COMMENTS:

SEARCH IMAGE: LEAVES INFLATED IN WHORLS OF 4-9; COROLLA YELLOW; PETIOLES OF UPPERMOST LEAVES INFLATED AND FLOATING (WT,CL)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: UTRICULARIA INFLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND DITCHES (1);

SOURCES: B46TAT01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE Y | BA | HO | |
| QA Y | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM Y | GA | |
| SO | | | |
| WO Y | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDLNT020J0 SRANK: C PROTECTION STATUS:

NAME: UTRICULARIA RADIATA

TAXONOMIC COMMENT: SYN=U. INFLATA VAR. MINOR

COMMON NAME: SMALL SWOLLEN BLADDERWORT
FAMILY: LENTIBULARIACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL Y | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 1 | NOVA 2 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 1 | SEPB 1 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 1 | OCTA 2 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 1 | OCTB 2 | DECB 0 |

SOURCES: B68RAD01MD B50FER01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOGGY STREAMS; POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: UTRICULARIA RADIATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND POOLS (1); DITCHES AND PONDS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDERI180J0 SRANK: C PROTECTION STATUS:

NAME: VACCINIUM MACROCARPON

TAXONOMIC COMMENT:

COMMON NAME: LARGE CRANBERRY
FAMILY: ERICACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE | EVERGREEN Y |
| | BIENNIAL | SHRUB Y | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 3 | OCTB 3 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: Y NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT Y | IGNEOUS |

PAGE 2: VACCINIUM MACROCARPON

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMPS, BRACKISH MEADOWS AND PONDS IN PINE WOODS (AND ALONG THE SEASHORE) (1); BOGS (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDVIT04080 SRANK: B1/U PROTECTION STATUS:

NAME: VITIS CINEREA

TAXONOMIC COMMENT: EASILY CONFUSED WITH V. AESTIVALIS

COMMON NAME: GRAYBARK
FAMILY: VITACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 3 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE: WOODY VINE; BARK LOOSE; LENTICELS INCONSPICUOUS; TENDRIL OR INFLORESCENCE NOT OPPOSITE EACH LEAF; LEAVES NOT GREENISH BENEATH (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
LOW THICKETS AND STREAM BANKS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: VITIS CINEREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
RICH LOW THICKETS, BOTTOMS AND BANKS OF STREAMS (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA Y | HO | |
| QA | AA Y | CL | |
| CN | PG Y | FR | |
| TA Y | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDVIT040H0 SRANK: C PROTECTION STATUS:

NAME: VITIS ROTUNDIFOLIA

TAXONOMIC COMMENT:

COMMON NAME: MUSCADINE GRAPE
FAMILY: VITACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 0 | SEPA 3 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 0 | SEPB 3 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 3 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

SEARCH IMAGE: WOODY VINE; LENTICELS CONSPICUOUS; TENDRILS NOT BRANCHED; BARK NOT LOOSE (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS: FAC

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC Y | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: VITIS ROTUNDIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
THICKETS AND RIVER BANKS (1); LOW WOODS, UPLAND WOODS AND SAND DUNES (2).

SOURCES: B46TAT01MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDVIT040J0 SRANK: B2 PROTECTION STATUS:

NAME: VITIS RUPESTRIS

TAXONOMIC COMMENT:

COMMON NAME: SAND GRAPE
FAMILY: VITACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB | VINE Y | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 1 | JULA 3 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 1 | JULB 3 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 0 | AUGA 3 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 0 | AUGB 3 | OCTB 0 | DECB 0 |

SOURCES: B50FER01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:
SANDY FLOODPLAINS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND Y | SERPENTINE |
| MESIC Y | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: VITIS RUPESTRIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY BANKS, SHORES, HILLS, ETC. (1);

SOURCES: B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO Y | ALL |
| KE | BA Y | HO Y | |
| QA | AA | CL | |
| CN | PG Y | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:

LAST LIT.SEARCH: BIO PREV: : :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-11 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLEM03030 SRANK: C PROTECTION STATUS:

NAME: WOLFFIA COLUMBIANA

TAXONOMIC COMMENT:

COMMON NAME: COLUMBIA WATER-MEAL
FAMILY: LEMNACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 2 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 2 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 2 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: WOLFFIA COLUMBIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND SLOUGHS (1); FLOATING BENEATH THE SURFACE OF QUIET WATERS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FLOWERS NOT SEEN. (B68RAD01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLEM04040 SRANK: B2/X PROTECTION STATUS: EE

NAME: WOLFFIELLA FLORIDANA

TAXONOMIC COMMENT:

COMMON NAME: WOLFFIELLA
FAMILY: LEMNACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 2 | JULA 0 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 2 | JULB 0 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 2 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 2 | JUNB 0 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: BS8RAD01MD
COMMENTS:

SEARCH IMAGE: THALLUS LINEAR, THIN, FLAT, NO ROOTS (WT)

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:
MARSHY POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: WOLFFIELLA FLORIDANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS, ROADSIDE DITCHES, STREAMS, SWAMPS AND MARSHES (1);
QUIET WATERS (2).

SOURCES: B68RAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO Y | CH | AL | |
| WI | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FLOWER AND FRUIT UNKNOWN. (B50FER01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-16 RAP UPDATE: 87-09-09 RAP

# PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMLEM03040 SRANK: B2/U PROTECTION STATUS:

NAME: WOLFFIA PUNCTATA

TAXONOMIC COMMENT:

COMMON NAME: WATERMEAL
FAMILY: LEMNACEAE

| HABIT: | | | | |
|---|---|---|---|---|
| | ANNUAL | HERB Y | VINE | EVERGREEN |
| | BIENNIAL | SHRUB | | |
| | PERENNIAL Y | TREE | | |

FLOWER/FRUIT NEEDED FOR IDENTIFICATION? Y
IF NO, WHY?

PHENOLOGY: (1=FLOWER; 2=FLOWER OR FRUIT; 3=FRUIT; 9=VEG ID)

| | | | | | |
|---|---|---|---|---|---|
| JANA 0 | MARA 0 | MAYA 0 | JULA 1 | SEPA 0 | NOVA 0 |
| JANB 0 | MARB 0 | MAYB 0 | JULB 1 | SEPB 0 | NOVB 0 |
| FEBA 0 | APRA 0 | JUNA 1 | AUGA 0 | OCTA 0 | DECA 0 |
| FEBB 0 | APRB 0 | JUNB 1 | AUGB 0 | OCTB 0 | DECB 0 |

SOURCES: B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:
TIDAL WETLAND: NON-TIDAL WETLAND: Y UPLAND:

INDICATOR STATUS:

PRIMARY HABITATS:
POND (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

| | | | |
|---|---|---|---|
| HYDRIC Y | ACIDIC | SAND | SERPENTINE |
| MESIC | NEUTRAL | LOAM | SHALE |
| XERIC | BASIC | CLAY | LIMESTONE |
| | | GRAVEL | SANDSTONE |
| | | PEAT | IGNEOUS |

PAGE 2: WOLFFIA PUNCTATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FLOATING ON SMALL POND BACK OF DUNES (1); FLOATING ON SURFACE OF QUIET WATERS (2).

SOURCES: B46TAT01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC Y ALL

COUNTY DISTRIBUTION:

| EASTERN SHORE: | WESTERN SHORE: | PIEDMONT-MONTANE: | |
|---|---|---|---|
| CE | HA | MO | ALL |
| KE | BA | HO | |
| QA | AA | CL | |
| CN | PG | FR | |
| TA | CT | WA | |
| DO | CH | AL | |
| WI Y | SM | GA | |
| SO | | | |
| WO | | | |

COMMENTS:

GENERAL COMMENTS:
FLOATING GLOBULES ABOUT 1 MM IN DIAMETER, ARE SMALLEST KNOWN FLOWERING PLANTS; NOT BLOOMING, HOWEVER, IN OUR AREA. (B46TAT01MD)

LAST LIT.SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-09 RAP

# SECTION III

# RARE AND ENDANGERED ANIMAL SPECIES
# RECORDED FOR ANNE ARUNDEL COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| ETHEOSTOMA VITREUM | GLASSY DARTER |
| FUNDULUS LUCIAE | SPOTFIN KILLIFISH |
| GRAPTEMYS GEOGRAPHICA | MAP TURTLE |
| HALIAEETUS LEUCOCEPHALUS | BALD EAGLE |
| LATERALLUS JAMAICENSIS | BLACK RAIL |
| PERCINA NOTOGRAMA | STRIPEBACK DARTER |
| PITUOPHIS MELANOLEUCUS | NORTHERN PINE SNAKE |
| PORZANA CAROLINA | SORA |
| REITHRODONTOMYS HUMULIS | EASTERN HARVEST MOUSE |
| STERNA ANTILLARUM | LEAST TERN |
| SOREX LONGIROSTRIS | SOUTHEASTERN SHREW |

## RARE AND ENDANGERED ANIMAL SPECIES RECORDED FOR BALTIMORE COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| BARTRAMIA LONGICAUDA | UPLAND SANDPIPER |
| BOTAURUS LENTIGINOSUS | AMERICAN BITTERN |
| CIRCUS CYANEUS | NORTHERN HARRIER |
| EMPIDONAX ALNORUM | ALDER FLYCATCHER |
| LATERALLUS JAMAICENSIS | BLACK RAIL |
| STERNA ANTILLARUM | LEAST TERN |

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR CALVERT COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| ACIPENSER OXYRHYNCHUS | ATLANTIC STURGEON |
| CISTOTHORUS PLATENSIS | SEDGE WREN |
| FUNDULUS LUCIAE | SPOTFIN KILLIFISH |
| GASTROPHRYNE CAROLINENSIS | EASTERN NARROWMOUTH TOAD |
| HALIAEETUS LEUCOCEPHALUS | BALD EAGLE |
| SIREN LACERTINA | GREATER SIREN |
| SOREX LONGIROSTRIS | SOUTHEASTERN SHREW |

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR CHARLES COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| AMBYSTOMA TIGRINUM | EASTERN TIGER SALAMANDER |
| FARANCIA ERYTROGRAMMA | RAINBOW SNAKE |
| HALIAEETUS LEUCOCEPHALUS | BALD EAGLE |
| LOPHODYTES CUCULLATUS | HOODED MERGANSER |
| RANA VIRGATIPES | CARPENTER FROG |

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR HARFORD COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| ACIPENSER BREVIROSTRUM | SHORTNOSE STURGEON |
| ACIPENSER OXYRHYNCHUS | ATLANTIC STURGEON |
| ETHEOSTOMA SELLARE | MARYLAND DARTER |
| ETHEOSTOMA VITREUM | GLASSY DARTER |
| GRAPTEMYS GEOGRAPHICA | MAP TURTLE |
| HALIAEETUS LEUCOCEPHALUS | BALD EAGLE |
| PERCINA CAPRODES | LOGPERCH |

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR PRINCE GEORGE'S COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| CISTOTHORUS PLATENSIS | SEDGE WREN |
| ETHEOSTOMA VITREUM | GLASSY DARTER |
| HALIAEETUS LEUCOCEPHALUS | BALD EAGLE |
| LOPHODYTES CUCULLATUS | HOODED MERGANSER |
| PERCINA NOTOGRAMA | STRIPEBACK DARTER |
| REITHRODONTOMYS HUMULIS | EASTERN HARVEST MOUSE |
| PERCINA CAPRODES | LOGPERCH |
| SOREX LONGIROSTRIS | SOUTHEASTERN SHREW |

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR SAINT MARY'S COUNTY

| SCIENTIFIC NAME | COMMON NAME |
|---|---|
| CENTRARCHUS MACROPTERUS | FLIER |
| CIRCUS CYANEUS | NORTHERN HARRIER |
| CISTOTHORUS PLATENSIS | SEDGE WREN |
| FUNDULUS LUCIAE | SPOTFIN KILLIFISH |
| GASTROPHRYNE CAROLINENSIS | EASTERN NARROWMOUTH TOAD |
| HALIAEETUS LEUCOCEPHALUS | BALD EAGLE |
| STERNA ANTILLARUM | LEAST TERN |

## EXPLANATION OF VERTEBRATE CHARACTERIZATION ABSTRACT FIELDS

ELCODE. Code assigned by The Nature Conservancy.

NAME. Scientific name.

COMNAME. Common name.

GRANK. Global rank. The Nature Conservancy's rangewide conservation priority rank for the element.

FEDSTATUS. Federal status of the species under the Endangered Species Act.

STATE. The state for which this report is made.

SRANK. State rank. Overall priority rank of the species in the state.

STATEPROT. Code used by the Natural Heritage Program to indicate the level of legal protection afforded to this element.

TAXCLASS. The taxonomic class.

ORDER. The taxonomic order.

FAMILY. The taxonomic family.

GENUS. The taxonomic genus.

TAXCOMM. Taxonomic comment. Discussion of any discrepancies, confusion, or recent changes in the literature regarding the taxonomic status of the species.

SUBSPCOMM. Subspecies comment. Comments on status or distribution of subspecies of particular interest, such as Federally listed or highly ranked taxa.

FEDMIGRAT. Federal migratory. Whether the bird is listed a a migratory bird by the Migratory Bird Treaty Act (16 U.S.C. 703-711) and hence subject to U.S. Fish & Wildlife Service regulations concerning taking, possession, transportation, sale, purchase, barter, exportation, and importation of wildlife.

MARINEMAM. Marine mammal. All North American whales, dolphins, porpoises, seals, sea lions, and the sea otter, manatee, and polar bear. These species are listed for conservation and protection under the Marine Mammal Protection Act of 1972.

STATCOMM. Status comment. Discussion of the global, federal, or international status fo the species.

GAMESPEC. Game species in the state.

COMMERSPEC. Commercially taken species in the state.

SPORTFISH. Fish taken for sport purposes in the state.

PROTNONG. Non-game species that is afforded some degree of legal protection by state statutes, regulations, etc.

FURBEARER. Mammal taken primarily for its fur and for which a legally prescribed harvest exists in the state.

PEST. Pest species. One subject to legally authorized activities aimed at reducing or eliminating populations.

SSTATCOMM. State status comment. Discussion of the status of the species in the state.

NONMIGR. Nonmigrant. Species for which at least some populations do not make significant seasonal movements. Juvenile dispersal is not considered a migration.

LOCALMIGR. Local migrant. Species which, relative to their daily movement patterns, make local extended movements at particular times of the year. Such movements are generally less than 200 km.

DISTMIGR. Distant migrant. Species for which some populations annually migrate 200 km. or more. Generally implies interstate migrations are the norm for some populations.

MIGRCOMM. Migration comment. Discussion of the timing, patterns, and variability in movement/migration patterns.

STBREED. Breeds in the state.

STWINTER. Winters in the state.

MIGTRANS. Migratory transient only in the state.

IRREGAPP. Irregular appearance in the state.

WITHINST. Within state migration.

SMIGRCOMM. In-state migration comment. Discussion of the movement/migration patterns, timing, and variability of the species within the state.

CARNIVORE. Restricted to species that eat mammals, birds, reptiles, or amphibians.

HERBIVORE. Restricted to species that eat plant material, exclusive of seeds, fruits, nectar, or sap, of vascular or nonvascular plant species.

NECTARVORE. Nectarivore. Species that feed on nectar or sap.

PISCIVORE. Species that eat fishes.

GRANIVORE. Species that eat seeds, although not only indirectly.

INVERTVORE. Invertivore. Species that eat invertebrates.

FRUGIVORE. Species that eat fruit.

FOODCOMM. Food habits. Comment on food types, food location, foraging methods and strategy. If the species is classically considered to be an omnivore, this fact is mentioned. Significant differences in juvenile/larval vs. adult food habits are discussed.

SFOODCOMM. State food habits. This comment field is for additional information on food habits, especially from studies conducted within the state.

COLBREED. Colonial/aggregate breeder. Species that come together for breeding and raising of young in a colony, or species that aggregate for a brief period of copulation at specific sites.

REPROCOMM. Reproduction. Comment on clutch or litter size and frequency, seasonal timing of reproduction activities, incubation/gestation periods, parental care, development of young, age at sexual maturity, etc.

SREPROCOMM. State reproduction. This comment field is for additional information on reproduction, especially from studies conducted within the state.

MAXLENGTH. Approximate typical maximum total length of an adult in centimeters. "Total" length is given except for turtles where carapace length is given, and for anurans (frogs and toads) where head and body length is given.

MAXWEIGHT. Approximate typical maximum total weight of an adult in grams.

ECOLCOMM. Ecology/attributes comments. Comments on

home range or territory size, population density, predators, competitors, parasites, and other significant ecological factors.

SECOLCOMM. State ecology/attributes comments. This is for additional information on ecology or miscellaneous attributes, especially from studies conducted within the state.

HIBAEST. Hibernator/aestivator. Species that have a definite period of inactivity or dormancy.

CIRCADIAN. Active anytime during a 24-hour period.

DIURNAL. Characteristically active during daylight.

NOCTURNAL. Characteristically active during darkness.

CREPUSCULR. Crepuscular. Characteristically active during twilight hours (at dawn and dusk).

PHENCOMM. Phenology/seasonality comment. Comments for specifying seasons of activity, periods of daily activity, and variation in these attributes.

STATE DATES OF PRESENCE/ACTIVITY. Check-off by half-months:

- P = Present (resident populations or regular migrants)
- A = Present and active (e.g., not hibernating)
- R = Present , active, and reproducing

SPHENCOMM. State phenology/seasonality comment. To describe within-state variation in phenology/activity.

RANGECOMM. Description of the range, emphasizing the North American range for Holarctic and other widespread species. Breeding and wintering ranges are specified, if different.

BAILEY ECOREGIONS:

- AP = Allegany Plateau
- UC = Upper Coastal Plain
- PD = Piedmont
- BR = Blue Ridge
- RV = Ridge and Valley
- LC = Lower Coastal Plain

OWDC WATERSHEDS. In-state distribution by USGS Office of Water Data major river basins (OWDC).

COUNTY OF OCCURRENCE. A blank indicates that the species doesn't regualrly occur in the county.

SRANGECOMM. In-state range comment to specify and

qualify state range, seasonal redistribution, etc.

SRANGEREF. Selected state references on in-state range/distribution. Codes used by The Nature Conservancy, not available to the Natural Heritate Program.

MARINE. Ocean habitats.

- PELAGIC - Open ocean waters, above the abyssal zone and not associated with the shore.
- ABYSSAL - Ocean habitats below the depth of effective penetration of light.
- NEARSHORE - Coastal subtidal marine habitats, extending outward as far as wave action and light penetrate to the bottom.

ESTUARINE. Deepwater tidal habitats and adjacent tidal wetlands that are usually semi-enclosed by land but have open, partly obstructed, or sporadic access to the open ocean, and in which ocean water is at least occasionally diluted by freshwater runoff from the land. Includes other intertidal habitats such as tidal flats and rocky intertidal shores that may be open to the ocean.

- BAYSOUND - Bay/sound. Subtidal (continuously submerged), open-water, estuarine habitats, excluding river mouths.
- RIVERMOUTH - River mouth/tidal river. Lower reaches of rivers with both brackish water and tidal influence.
- TIDEPOOL - Tidal pool/lagoon. Open (unvegetated), shallow, estuarine waters isolated at low tide or separated from deeper waters by a natural barrier such as a spit.
- TIDESHORE - Tidal flat/shore. Non-vegetated zone of wave or tidal action, intermittently exposed or inundated.
- EHERBWET - Estuarine herbaceous wetland. Vegetated areas characterized by emergent herbaceous aquatic plants, excluding mosses and lichens.
- ESHRUBWET - Estuarine scrub-shrub wetland. Vegetated areas dominated by woody plants less than 6 m. tall (e.g., some mangroves, marsh elder).
- EFORWET - Estuarine forested wetland. Areas vegetated by woody plants 6 m. tall or taller.

RIVERINE. Wetlands and deep water habitats contained within a stream channel, except for wetlands dominated by persistent vegetation or habitats with brackish water.

BIGRIVER - The largest streams, generally characterized by large perennial flows, large quantities of nutrients and organic matter, high turbidity, heterotroph-dominated communities, and fine sediments.

MEDRIVER - Medium river. Perennial tributaries of big rivers (or flowing directly into other water bodies); may generally be characterized by autotrophic communities and coarse-to-fine sediments. Riparian vegetation does not heavily dominate the community through shading and organic inputs.

CREEK - Smaller streams, characterized by heavy influence from adjacent terrestrial habitats (shading, organic detritus); variable flow, sometimes intermittent.

SPRNGBROOK - Spring/spring brook. Points of concentrated groundwater discharge, either concentrated (at a distinct orifice) or diffuse (at a seep). The outflow channel is classified as a spring brook as far downstream as the spring water's characteristics (relatively constant temperature, cool, nutrient-poor) are maintained.

HIGHGRAD - High gradient. Streams with a fall of more than 2 meters per kilometer, characterized by riffles, pools, rock outcropps, and coarse sediments.

MEDIUMGRAD- Moderate gradient. Streams with a fall between 0.2 and 2 meters per kilometer; bottom sediments are a mosaic of sand, gravel, and silt.

LOWGRAD - Low gradient. Streams with a fall less than 0.2 meters per kilometer; there may be sand bars, but the sediments are mostly silt.

RIFFLE - Shallow area where water passing over the bottom causes visible disturbances (ripples) at the water surface.

POOL - Discrete areas where the water is relatively still and usually deeper than adjacent waters.

<u>LACUSTRINE.</u> Nonvegetated (open) standing waters.

DEEPWATER - Open, nonvegetated aquatic habitats, extending beyond the littoral zone

(shore or shallow water).

SHALLWATER - Shallow water. The littoral zone: characterized by the frequent presence of rooted aquatic plants, disturbance by wave action, and periodic exposure during drawdown (during drought, for example). Some lakes and ponds are all shallow water; in some others, shallow water is restricted to shores and bays.

PALUSTRINE. Nontidal freshwater vegetated wetlands; also nonvegetated areas with a saturated substrate (water table at or very near the surface).

TEMPOOL - Temporary pool. Small depressions in which surface water is present for extended periods (especially early in the growing season) but is absent by the end of the season in most years; "seasonally flooded."

PHERBWET - Palustrine herbaceous wetland. Vegetated areas characterized by emergent herbaceous aquatic plants, excluding mosses and lichens: e.g., freshwater marsh.

PSHRUBWET - Palustrine scrub-shrub wetland. Areas dominated by woody vegetation less than 6 m. tall.

PFORWET - Palustrine forested wetland. Areas vegetated by woody plants 6 m. tall or taller.

BOGFEN - Bog/fen. Wetlands with peat or muck substrate resulting from unusual water chemistry; includes areas of highly mineralized groundwater discharge (i.e., many fens) as well as sterile rainwater catch-basins (i.e., many bogs) and other peatlands.

RIPARIAN - Habitats directly associated with streamsides, and similar immediately adjacent habitat.

TERREST. Terrestrial. Upland, well-drained habitats, as opposed to aquatic (wetland or deep water) habitats; vegetation not adapted to saturated soil; surface not flooded or saturated for any period of time.

FOREST - Woody vegetation at least 6 m. tall (usually much taller) with a fairly continuous and complete (two-thirds or greater) canopy closure.

WOODLAND - Open stands of trees at least 6 m. tall, with crowns often not

interlocking; tree canopy discontinuous (often clumped), averaging between two-thirds and 40% overall cover (at 40%, the average diameter of a tree crown equals the average distance between crowns); shrub layer often poorly developed or present only in gaps in the canopy.

HARDWOOD - Trees are mostly angiosperms that comprise over two-thirds of the canopy.

CONIFER - Trees are mostly gymnosperms that comprise over two-thirds of the canopy.

MIXED - Stand composed of both hardwood and conifer trees, neither dominating as much as two-thirds of the canopy.

SHRUBCHAP - Shrubland/chaparral. Vegetation composed of shrubs (many-stemmed woody plants, generally less than 6 m. tall). Chaparral is a type of fire-maintained evergreen shrub community.

SAVANNAH - Mosaic of trees or shrubs and grassland; between 40% and 10% cover by trees and shrubs.

GRASSLAND - Grassland/herbaceous. Habitat dominated by grasses or forbs; trees and shrubs very widely scattered, if present. (Includes pastures and hayfields.)

DESERT - Extremely dry landscape, sparsely vegetated by widely spaced herbs, shrubs, or succulent tree-like plants; relatively barren substrate tends to dominate the aspect of the habitat.

ALPINE - Barren substrate or herbaceous and low shrubby vegetation above mountain timberline.

TUNDRA - Herbaceous and dwarf shrubby vegetation beyond the subpolar tree line.

ICE - Glaciers, snow fields, and ice fields.

SALTFLAT - Playa/salt flat. Level basins, floored with fine sediments, which periodically contain a shallow lake. Some salt flats are rarely inundated.

SAND - Sand/dune. Area of open sand, unvegetated or nearly so, including active wind-blown dunes.

BAREROCK - Bare rock/scree. Unvegetated expanses

of bedrock or broken rock.

CLIFF - Vertical or nearly vertical rock outcrops.

CROPLAND - Cropland/hedgerow. Cultivated fields and field borders.

SUBURBAN - Suburban/orchard. Human-maintained habitats, generally characterized by open-grown trees,lawns, and small buildings.

URBAN - Urban/edificarian. Habitats dominated by buildings, with little vegetation.

SUBTERRAN. Subterranean. Habitats beneath the earth's surface. (Soil and benthic habitats are not subterranean.

SUBTERREST - Subterranean terrestrial (air-filled) habitats, ranging from large caves to interstitial crevices below the soil horizons.

SUBAQUATIC - Subterranean aquatic. Underground waters, above and below the water table.

SPECFACTOR. Special Habitat Factors, used or depended upon.

SNAGHOLLOW - Standing snag/hollow tree.

LOGDEBRIS - Fallen log/debris.

INSOIL - In soil; refers to vertebrates that burrow or use soils and litter debris.

BENTHIC - The bottom of any body of water.

HABCOMM. Habitat comment to further specify the habitat and describe variation in habitat use.

REPHABCOMM. Reproductive habitat comment to specify the habitat in which reproductive activities occur, if different or a subset of habitat occupied at other times.

SHABCOMM. State habitat comment to further specify the within-state habitat where it differs from the range-wide habitat or is more specific or restricted.

NATREF, STATEREF, ADDITIONAL SOURCES. Reference codes used by The Nature Conservancy.

GEDITION. Edition date (YY-MM-DD).

GUPDATE. Record update.

SEDITION. State edition date. (for state-specific fields)

SUPDATE. State record update.

ELCODE: AFCAA01040

IDENTIFIERS

NAME: ACIPENSER OXYRHYNCHUS
COMNAME: ATLANTIC STURGEON
GRANK: G3 FEDSTATUS: STATE: SRANK: S2S3 STATEPROT:

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: ACIPENSERIFORMES
FAMILY: ACIPENSERIDAE GENUS: ACIPENSER
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM: Adults migrate between fresh water spawning areas and salt water nonspawning areas. May move up to 1500 km along coast from spawning rivers.

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Feeds primarily on benthic invertebrates and small fishes as available.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Spawns as early as February in south, May-July in north. Eggs hatch in about a week. Sexually mature in 7-34 yr., depending on locality (generally mature at younger age in south). Some females probably spawn every year.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: ACIPENSER OXYRHYNCHUS

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Atlantic coast from Labrador to Florida; also ne. Gulf of Mexico. Possibly formerly also along ne. South America and in Bermuda.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: Y |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: Y | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE: Y
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE: Y
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE:
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Juveniles occur primarily in rivers and estuaries but some migrate to sea (U80HOF01NA). Adults are primarily marine, migrating to rivers for spawning; return to sea in fall.

REPHABCOMM: Spawns in fresh water (sometime tidal) usually over bottom of hard clay, rubble, gravel, or shell. May spawn in brackish water.

SHABCOMM:

## REFERENCES

NATREF: B73SCO01NA U80HOF01NA B80LEE01NA
STATEREF:
ADDITIONAL SOURCES:

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-11-21
SEDITION: SUPDATE:

ELCODE: AAAAA01140

IDENTIFIERS

NAME: AMBYSTOMA TIGRINUM
COMNAME: EASTERN TIGER SALAMANDER
GRANK: G5 FEDSTATUS: STATE: SRANK: S4 STATEPROT: LI

TAXONOMY

TAXCLASS: AMPHIBIA ORDER: CAUDATA
FAMILY: AMBYSTOMATIDAE GENUS: AMBYSTOMA
TAXCOMM: Ambystoma californiense often is included as a member of this species.

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: Y DISTMIGR:
MIGRCOMM: Migrates up to several hundreds meters between breeding and nonbreeding habitats.

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Adults eat any small animal that can be captured and swallowed. Larvae eat aquatic invertebrates and vertebrates as available.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Breeds in spring in north and high elevations, in winter in south, in summer in southwest. Lays up to 1000 eggs singly or in small clusters on submerged vegetation. Larvae metamorphose in 1st or 2nd summer, or become paedomorphic.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: Y CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM: Sometimes active diurnally in wet weather.

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Throughout much of North America, s. Canada to Puebla, Mexico. Absent from most of Great Basin, West, New england, and Appalachians. Introduced at many localities west of Rocky Mountains.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: Y |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: Y | QUEEN ANNES: Y |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: Y |
| CHARLES: Y | TALBOT: |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL: Y
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN:
  RIPARIAN: Y

TERREST:
  FOREST: Y
  WOODLAND:
    HARDWOOD: Y
    CONIFER: Y
    MIXED: Y
  SHRUBCHAP: Y
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND: Y
  SUBURBAN:
  URBAN: Y

SUBTERRAN: Y
  SUBTERREST: Y
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL: Y
  BENTHIC:

HABCOMM: Found in virtually any habitat, providing there is a body of water nearby suitable for breeding. Terrestrial adults primarily subterranean.

REPHABCOMM: Breeds in a wide range of environments, ranging from clear mountain ponds to temporary, manure-polluted pools in the lowlands. Usually breeds in sites where predatory fishes are absent.

SHABCOMM:

REFERENCES

NATREF: B81VOG01NA B72MIN01NA B82HAM01NA
STATEREF:
ADDITIONAL SOURCES:
B82COL02NA
A67GEH01NA
B41BIS01NA

RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-09-09
SEDITION: SUPDATE:

ELCODE: ABNGA01020

IDENTIFIERS

NAME: BOTAURUS LENTIGINOSUS
COMNAME: AMERICAN BITTERN
GRANK: G4 FEDSTATUS: STATE: SRANK: S2 STATEPROT: L

TAXONOMY

TAXCLASS: AVES ORDER: CICONIIFORMES
FAMILY: ARDEIDAE GENUS: BOTAURUS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM: Bulk of spring migration in U.S. in March and April. Considerable wandering in late summer and early fall. Fall migration September to October and November. (B62PAL01NA).

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Eats mainly fishes, crayfishes, amphibians, mice and shrews, insects, and other animals (B62PAL01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 2-6 (usually 3-5) eggs, April-July. Incubation 24-28 days, apparently by female. Young leave nest at about 14 days. (B80TER01NA, B79HAR01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Mostly solitary but may be in loose colonies in favorable habitat (B79HAR01NA).

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR: Y
PHENCOMM: More active when light intensity low (B62PAL01NA).

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds from se. Alaska and s. Mackenzie to Newfoundland, south to s. California, cen. Kansas, Mexico, and Florida. Winters from sw. Brit. Col., n. Nevada, n. Texas, Ohio Valley (rarely), and New York south to Panama & West Indies.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: Y | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: Y |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

PAGE 3: BOTAURUS LENTIGINOSUS

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET: Y
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN: Y
  RIPARIAN: Y

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Fresh water bogs, swamps, wet fields, cattail and bulrush marshes, brackish and saltwater marshes and meadows.

REPHABCOMM: Eggs laid in platform nest a few inches above water in concealing vegetation; sometimes nest built on ground. (B80TER01NA).

SHABCOMM:

REFERENCES

NATREF: B62PAL01NA B80TER01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:
B79HAR01NA

RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-29
SEDITION: SUPDATE:

ELCODE: AFCQB08010

IDENTIFIERS

NAME: CENTRARCHUS MACROPTERUS
COMNAME: FLIER
GRANK: G5 FEDSTATUS: STATE: SRANK: SU STATEPROT:

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: PERCIFORMES
FAMILY: CENTRARCHIDAE GENUS: CENTRARCHUS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Feeds throughout water column on crustaceans, insects, worms, fishes, and filamentous algae (B84MAN01NA, B79SMI02NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Spawns March-May, or as early as February. Eggs hatch in about 2 days at 72 F; hatching times presumably much longer under natural conditions. Males guard eggs and hatchlings. (B84MAN01NA).
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: CENTRARCHUS MACROPTERUS

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: E. Virginia south to n.-cen. Florida and throughout much of Gulf coastal plain (to e. Texas) and Mississippi Valley, north to s. Illinois. S. Maryland pop. may be introduced.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: Y |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET: Y
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Swamps, lakes, sloughs, low gradient streams, creeks, ponds; most abundant in well-vegetated waters.

REPHABCOMM: Eggs laid in nest built by male on bottom; may nest in colonies.

SHABCOMM:

## REFERENCES

NATREF: B84MAN01NA B79SMI02NA B80LEE01NA
STATEREF:
ADDITIONAL SOURCES:

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-03
SEDITION: SUPDATE:

ELCODE: ABNKC11010

## IDENTIFIERS

NAME: CIRCUS CYANEUS
COMNAME: NORTHERN HARRIER
GRANK: G5 FEDSTATUS: STATE: SRANK: S2 STATEPROT:

## TAXONOMY

TAXCLASS: AVES ORDER: FALCONIFORMES
FAMILY: ACCIPITRIDAE GENUS: CIRCUS
TAXCOMM: Old World population sometimes regarded as separate species, in which case specific name of this species is hudsonius. South American C. cinereus sometimes considered as conspecific with this species. (B83COM01NA).
SUBSPCOMM:

## STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

## MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM: Generally arrives in northern breeding areas in March and April (and May in Alaska), departs by September-November (B37BEN01NA).

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

## FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: FRUGIVORE:
FOODCOMM: Eats mainly small mammals, frogs, small snakes; also lizards, crayfishes, many insects, small birds, and carrion; usually flies low when hunting, drops quickly on prey on ground (B80TER01NA).
SFOODCOMM:

## REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 3-9 (commonly 5) eggs, March-July. Incubation 31-32 days, by female. Young fly at about 30-35 days. Some males polygynous. (B80TER01NA).

SREPROCOMM:

## SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR: Y
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds from n. Alaska to n. Sask. and s. Quebec, south to n. Baja Calif., s. Texas, s. Missouri, W. Virginia, and se. Virginia (and formerly Fla.). Winters from s. Canada to n. South America and Antilles. Also in Old World.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: Y | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: Y | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: Y |
| CECIL: | SOMERSET: Y |
| CHARLES: | TALBOT: |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: Y | WORCESTER: Y |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
- PELAGIC:
- ABYSSAL:
- NEARSHORE:

ESTUARINE:
- BAYSOUND:
- RIVERMOUTH:
- TIDEPOOL:
- TIDESHORE:
- EHERBWET: Y
- ESHRUBWET:
- EFORWET:

RIVERINE:
- BIGRIVER:
- MEDRIVER:
- CREEK:
- SPRNGBROOK:
  - HIGHGRAD:
  - MEDIUMGRAD:
  - LOWGRAD:
  - RIFFLE:
  - POOL:

LACUSTRINE:
- DEEPWATER:
- SHALLWATER:

PALUSTRINE: Y
- TEMPPOOL:
- PHERBWET: Y
- PSHRUBWET:
- PFORWET:
- BOGFEN: Y
- RIPARIAN:

TERREST:
- FOREST:
- WOODLAND:
  - HARDWOOD:
  - CONIFER:
  - MIXED:
- SHRUBCHAP: Y
- SAVANNAH:
- GRASSLAND: Y
- DESERT:
- ALPINE:
- TUNDRA:
- ICE:
- SALTFLAT:
- SAND:
- BAREROCK:
- CLIFF:
- CROPLAND: Y
- SUBURBAN:
- URBAN:

SUBTERRAN:
- SUBTERREST:
- SUBAQUATIC:

SPECFACTOR:
- SNAGHOLLOW:
- LOGDEBRIS:
- INSOIL:
- BENTHIC:

HABCOMM: Marshes, meadows, grasslands, and cultivated fields. Perches on ground or on stumps or posts.

REPHABCOMM: Nests on ground, commonly near low shrubs, in tall weeds or reeds, sometimes in bog; or on top of low bush above water, or on knoll of dry ground, or on higher shrubby ground near water, or in marsh.

SHABCOMM:

## REFERENCES

NATREF: B80TER01NA B37BEN01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-31
SEDITION: SUPDATE:

ELCODE: ABPBG10010

IDENTIFIERS

NAME: CISTOTHORUS PLATENSIS
COMNAME: SEDGE WREN
GRANK: G5 FEDSTATUS: STATE: SRANK: S2 STATEPROT: L

TAXONOMY

TAXCLASS: AVES ORDER: PASSERIFORMES
FAMILY: TROGLODYTIDAE GENUS: CISTOTHORUS
TAXCOMM: South American population sometimes regarded as separate species, C. platensis; in which case northern populations are C. stellaris (B83COM01NA).

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Eats insects and spiders (B80TER01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 4-8 (usually 6-7) eggs, late May to August in U.S.; typically 2 broods per year. Incubation 12-14 days, by female. Young tended mainly by female, leave nest at 12-14 days.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds from e. Alta. east across s. Canada to cen. Me. & New Bruns., south to e. Ark., s. Ill., cen. Kent., w. W. Va., and se. Va., west to Dakotas and Kans. Winters from Tenn. & Md. south to se. N.M. & se. U.S. Res. in Mid. & S. America.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: Y |
| CALVERT: Y | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: Y |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: Y |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET:
  BOGFEN: Y
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND: Y
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Grasslands and savanna, especially where wet or boggy, sedge marshes, locally in dry cultivated grainfields. In migration and winter also in brushy grasslands. (B83COM01NA)

REPHABCOMM: Nests low in sedge, grass, or similar herbage, very near ground, or over shallow water (B78HAR01NA).

SHABCOMM:

## REFERENCES

NATREF: B80TER01NA B48BEN01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:
B78HAR01NA
B79HAR01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-03-12
SEDITION: SUPDATE:

ELCODE: AAAAC01010

IDENTIFIERS

NAME: CRYPTOBRANCHUS ALLEGANIENSIS
COMNAME: HELLBENDER
GRANK: G4 FEDSTATUS: C2 STATE: SRANK: S1 STATEPROT: LI

TAXONOMY

TAXCLASS: AMPHIBIA ORDER: CAUDATA
FAMILY: CRYPTOBRANCHIDAE GENUS: CRYPTOBRANCHUS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM: 80% of recaptures were less than 30 m from tagging site in Missouri study.

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Crayfish are the most important food item, though fishes and other aquatic inverebrates are also eaten.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays up to 500 eggs in late summer or fall. Several females may oviposit in same site. Larvae hatch in 2-3 mo., lose gills about 18 mo. after hatching. Males guard developing eggs. Attains sexual maturity in 5th or 6th year.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: 80% of recaptures were within 30 m of tagging site in Missouri study. Population density indicated in checkoff is for prime habitat in Missouri.

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM: Primarily nocturnal but sometimes active in daylight.

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Sw. New York to n. Alabama and Georgia. Separate populations in Missouri-Arkansas and in Susquehanna River (New York and Pennsylvania).

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: Y | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: Y | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: Y | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE:
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Rocky, clear streams and rivers below 2500 ft. Usually avoids water >20 C.

REPHABCOMM: Males prepare nests beneath large flat rorks or submerged logs.

SHABCOMM:

## REFERENCES

NATREF: B73NIC01NA B71BAR01NA B72MIN01NA
STATEREF:
ADDITIONAL SOURCES:
B77JON01NA
A71DUN01NA
B75MOU01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-09-10
SEDITION: SUPDATE:

ELCODE: AFCQC02680

IDENTIFIERS

NAME: ETHEOSTOMA SELLARE
COMNAME: MARYLAND DARTER
GRANK: G1 FEDSTATUS: LE STATE: SRANK: S1 STATEPROT: L

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: PERCIFORMES
FAMILY: PERCIDAE GENUS: ETHEOSTOMA
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Diet includes snails and immature aquatic insects (B83ONO01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Spawning period probably late April or early May (B83ONO01NA). Maximum life span probably less than 3 yr. (B83PAG01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: ETHEOSTOMA SELLARE

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Deer Creek, Harford Co., Maryland; occasional strays in Gasheys Run downstream. No recent records from type locality.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: Y |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE:
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: In first major riffle above tidewater in Deer Creek; also uses (particularly young and juveniles) adjacent pools. Riffle has bottom ranging from rubble to gravel and has an abundance of rooted aquatic plants. (B83KUE01NA, B83PAG01NA)

REPHABCOMM:

SHABCOMM:

## REFERENCES

NATREF: B83PAG01NA B83KUE01NA B80LEE01NA
STATEREF:
ADDITIONAL SOURCES:
B83ONO01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-13
SEDITION: SUPDATE:

ELCODE: AFCQC02850

IDENTIFIERS

NAME: ETHEOSTOMA VITREUM
COMNAME: GLASSY DARTER
GRANK: G4 FEDSTATUS: STATE: SRANK: S1 STATEPROT: LX

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: PERCIFORMES
FAMILY: PERCIDAE GENUS: ETHEOSTOMA
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Feeds mostly at dawn and dusk (B83PAG01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Spawns communally in March and early April (B83KUE01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR: Y
PHENCOMM: Most active at dawn and dusk (B83PAG01NA). Inactive in winter (B83KUE01NA).

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Piedmont and upper Coastal Plain from Neuse R. drainage, North Carolina, to northern Maryland.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: Y |
| ANNE ARUNDEL: Y | HOWARD: Y |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

PAGE 3: ETHEOSTOMA VITREUM

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE:
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Primarily in small to medium size sand- and gravel-bottomed streams of moderate to fast current. Inactive and hidden in pools in winter. Spends much of time buried in sand.

REPHABCOMM: Eggs laid communally on surface of object facing strong current (B83PAG01NA).

SHABCOMM:

REFERENCES

NATREF: B83PAG01NA B83KUE01NA B80LEE01NA
STATEREF:
ADDITIONAL SOURCES:

RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-14
SEDITION: SUPDATE:

ELCODE: ARADB14020

IDENTIFIERS

NAME: FARANCIA ERYTROGRAMMA
COMNAME: RAINBOW SNAKE
GRANK: G5 FEDSTATUS: STATE: SRANK: SH STATEPROT: L

TAXONOMY

TAXCLASS: REPTILIA ORDER: SQUAMATA
FAMILY: COLUBRIDAE GENUS: FARANCIA
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: FRUGIVORE:
FOODCOMM: Adults eat mainly eels; young eat salamanders, frogs, and tadpoles (B75CON01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 20-52 eggs in late spring or summer. Eggs hatch in about 80 days.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM: Most active at night but sometimes seen foraging during day (B75MOU01NA).

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Coastal Plain from s. Maryland to Florida, west to Mississippi River.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: Y | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

ELCODE: AFCNB04220

IDENTIFIERS

NAME: FUNDULUS LUCIAE
COMNAME: SPOTFIN KILLIFISH
GRANK: G4? FEDSTATUS: STATE: SRANK: S2 STATEPROT:

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: ATHERINIFORMES
FAMILY: CYPRINODONTIDAE GENUS: FUNDULUS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: FRUGIVORE:
FOODCOMM: Eats mainly detritus, diatoms, ostracods, dipterans, copepods, and other small organisms (A78BYR01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Spawns from spring to early fall, mostly in spring. Sexually mature 2-3 mo. after hatching. Life span probably about 1 yr. (A78BYR01NA, A78KNE01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Apparently spotty distribution from Long Island to Georgia; most populations seem to in Chesapeake Bay, Delmarva region.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: Y | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: Y |
| CARROLL: | SAINT MARYS: Y |
| CECIL: | SOMERSET: Y |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: Y |

PAGE 3: FUNDULUS LUCIAE

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE: Y
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET: Y
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: High intertidal areas in brackish, sometimes oxygen-deficient shallow ditches, mudholes, and tidal rivulets in stands of smooth cordgrass (A78BYR01NA).

REPHABCOMM:

SHABCOMM:

REFERENCES

NATREF: B80LEE01NA A78BYR01NA A78KNE01NA
STATEREF:
ADDITIONAL SOURCES:

RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-12-26
SEDITION: SUPDATE:

ELCODE: AAABE01010

IDENTIFIERS

NAME: GASTROPHRYNE CAROLINENSIS
COMNAME: EASTERN NARROWMOUTH TOAD
GRANK: G5 FEDSTATUS: STATE: SRANK: S4 STATEPROT: LI

TAXONOMY

TAXCLASS: AMPHIBIA ORDER: ANURA
FAMILY: MICROHYLIDAE GENUS: GASTROPHRYNE
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: Y DISTMIGR:
MIGRCOMM: Migrates between breeding pools and adjacent nonbreeding terrestrial habitats.

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: Y NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Metamorphosed frogs eat a variety of small arthropods, especially ants, termites, and small beetles. Larvae eat organic debris, algae, and plant tissue.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of up to about 850 eggs (divided among several batches), usually after heavy rains in spring or summer. Aquatic larvae hatch in a couple days, metamorphose into terrestrial form in about 3-10 weeks.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: Y CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM: Most active at night duirng wet weather of spring and summer.

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: S. Maryland to se. Kansas, south to Florida Keys and e. Texas. Scattered disjunct populations along northern and western margins of range.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: Y | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: Y |
| CECIL: | SOMERSET: Y |
| CHARLES: | TALBOT: |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: Y |

PAGE 3: GASTROPHRYNE CAROLINENSIS

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL: Y
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN:
  RIPARIAN: Y

TERREST:
  FOREST: Y
  WOODLAND:
    HARDWOOD: Y
    CONIFER: Y
    MIXED: Y
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND: Y
  SUBURBAN:
  URBAN:

SUBTERRAN: Y
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL: Y
  BENTHIC:

HABCOMM: Occupies a wide variety of shaded moist habitats. Burrows into soil or hides under surface cover when inactive.

REPHABCOMM: Eggs laid and larvae develop in lakes, ponds, sloughs, flooded roadside ditches, swamps, stream margins, rain puddles, etc. Uses both temporary and permanent waters.

SHABCOMM:

## REFERENCES

NATREF: B77JOH01NA B75MOU01NA B71BAR01NA
STATEREF:
ADDITIONAL SOURCES:
B79BEH01NA
B75CON01NA
A72NEL01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-09-30
SEDITION: SUPDATE:

ELCODE: ARAAD05040

IDENTIFIERS

NAME: GRAPTEMYS GEOGRAPHICA
COMNAME: MAP TURTLE
GRANK: G5 FEDSTATUS: STATE: SRANK: S1 STATEPROT: L

TAXONOMY

TAXCLASS: REPTILIA ORDER: TESTUDINES
FAMILY: EMYDIDAE GENUS: GRAPTEMYS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Adult females eat primarily mollusks; also crayfish and insect larvae. Males probably more insectivorous. (B81VOG01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays 1 or 2 clutches of 10-20 eggs, May to mid-July. Hatchlings emerge from mid-August to September or overwinter in nest and emerge in spring.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR:
PHENCOMM: Most active from April to September. Sluggish activity may occur under ice in winter. Variously reported as sleeping in water at night or foraging at night (cf. B81VOG01NA and B72ERN01NA).

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: S. Quebec and nw. Vermont to e. Minnesota, south to Arkansas, n. Alabama, and e. Tennessee. Isolated populations in Delaware and Susquehanna river drainages.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: Y |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: Y | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN: Y

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Slow rivers and lakes with mud bottoms, basking logs, and abundant aquatic vegetation. Often in mill ponds, oxbows, and river overflow ponds. Sometimes found in small streams. May occupy burrows in banks when inactive (B72MIN01NA).

REPHABCOMM: Eggs laid in soft soil or sand, generally away from beaches (B72ERN01).

SHABCOMM:

## REFERENCES

NATREF: B72ERN01NA B81VOG01NA B72MIN01NA
STATEREF:
ADDITIONAL SOURCES:

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-10-18
SEDITION: SUPDATE:

ELCODE: ABNKC10010

IDENTIFIERS

NAME: HALIAEETUS LEUCOCEPHALUS
COMNAME: BALD EAGLE
GRANK: G3 FEDSTATUS: LELT STATE: SRANK: S1 STATEPROT: LI

TAXONOMY

TAXCLASS: AVES ORDER: FALCONIFORMES
FAMILY: ACCIPITRIDAE GENUS: HALIAEETUS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: FRUGIVORE:
FOODCOMM: Eats mainly fishes, either self-caught or taken from ospreys; also injured waterfowl, various mammals, and carrion (B80TER01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 1-3 (usually 2) eggs, November-January in Florida, March to April or May farther north. Incubation about 7 weeks, by both sexes. Second hatched young often dies. Young first fly at 10-11 weeks.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR: Y
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds from cen. Alaska to n. Sask., Labrador, and Newf., south locally to Aleutian Is., Baja Calif., New Mex., Gulf Coast, and Florida; very local in interior N. Am. Winters generally t/o breeding range except in far north.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: Y |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: Y |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: Y | PRINCE GEORGES: Y |
| CAROLINE: Y | QUEEN ANNES: Y |
| CARROLL: | SAINT MARYS: Y |
| CECIL: Y | SOMERSET: Y |
| CHARLES: Y | TALBOT: Y |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: Y |
| GARRETT: | WORCESTER: Y |

PAGE 3: HALIAEETUS LEUCOCEPHALUS

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE: Y
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE: Y
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE: Y
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET: Y
  BOGFEN:
  RIPARIAN: Y

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF: Y
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Primarily near seacoasts, rivers, and large lakes.

REPHABCOMM: Usually nests in tall trees or on cliffs near water. Same nest may be used year after year, or may alternate between 2 nest sites in successive years.

SHABCOMM:

## REFERENCES

NATREF: B80TER01NA B37BEN01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:
B78HAR01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-31
SEDITION: SUPDATE:

ELCODE: ABNME03040

IDENTIFIERS

NAME: LATERALLUS JAMAICENSIS
COMNAME: BLACK RAIL
GRANK: G5 FEDSTATUS: STATE: SRANK: S2 STATEPROT: L

TAXONOMY

TAXCLASS: AVES ORDER: GRUIFORMES
FAMILY: RALLIDAE GENUS: LATERALLUS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM:

STBREED: Y STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: FRUGIVORE:
FOODCOMM: Reported food items include insects, isopods, and seeds of aquatic plants (B80TER01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of usually 6-10 eggs, May-August (mostly June) in New Jersey. Possibly 2 broods. Incubation probably 16-20 days, by both sexes.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: Y DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds locally in Calif., Kansas, along Atl. coast from N.Y. south to cen. Fla., Gulf coast in e. Tex. & w. Fla., Belize, and w. S. Am. Winters Calif. coast, in se. Calif., along Gulf coast from Tex. to Fla., and in Belize and S. America.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: Y | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: Y |
| CHARLES: | TALBOT: |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET: Y
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Salt, brackish, and freshwater marshes, wet meadows, and grassy swamps.

REPHABCOMM: Nests in or along edge of marsh, usually in site hidden in marsh grass or at base or Salicornia, sometimes on damp ground but usually on mat of previous year's dead grasses (B80TER01NA).

SHABCOMM:

## REFERENCES

NATREF: B80TER01NA B26BEN01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:
B78HAR01NA
B79HAR01NA
B83NAT01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-03-21
SEDITION: SUPDATE: 86-10-29

ELCODE: ABNJB20010

IDENTIFIERS

NAME: LOPHODYTES CUCULLATUS
COMNAME: HOODED MERGANSER
GRANK: G5 FEDSTATUS: STATE: SRANK: S1S2 STATEPROT:

TAXONOMY

TAXCLASS: AVES ORDER: ANSERIFORMES
FAMILY: ANATIDAE GENUS: LOPHODYTES
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM: In east northward spring migration mainly February to May. Returns to breeding areas in west mostly late March through April. In east southward fall migartion mostly September-December. Most movement to wintering areas in Nov. in west.
STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Eats mostly small fishes, crayfishes, and other crustaceans, and aquatic insects obtained by diving underwater. (B76PAL02NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 6-18 (usually 10-12) eggs, March to early June. Incubation 29-37 days, by female. Young first fly at estimated age of 10 weeks. First breeds at about 2 yr. (B80TER01NA, B76PAL01NA).
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR: Y
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds from se. Alaska, cen. B.C., and sw. Alberta south to sw. Ore., cen. Idaho, & nw. Montana; and from cen. Sask. to Nova Scotia, south to se. Kansas, n. Louisiana, n. Georgia, and (rarely) Fla. Winters along Pac., Atl., & Gulf slopes.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: Y | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: Y |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: Y | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: Y | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE: Y
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE: Y
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET: Y
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN: Y
  RIPARIAN: Y

TERREST:
  FOREST: Y
  WOODLAND:
    HARDWOOD: Y
    CONIFER: Y
    MIXED: Y
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Streams, lakes, swamps, marshes, and estuaries; winters mostly in freshwater but also regularly in estuaries and sheltered bays (B83COM01NA).

REPHABCOMM: Nests usually in tree cavities in forested regions near water, often near fast-flowing streams (B83COM01NA).

SHABCOMM:

## REFERENCES

NATREF: B76PAL02NA B80TER01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-30
SEDITION: SUPDATE:

ELCODE: AFCQC04050

IDENTIFIERS

NAME: PERCINA CAPRODES
COMNAME: LOGPERCH
GRANK: G5 FEDSTATUS: STATE: SRANK: SU STATEPROT:

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: PERCIFORMES
FAMILY: PERCIDAE GENUS: PERCINA
TAXCOMM: Logperches in se. U.S. may represent 4 undescribed species (B80LEE01NA).

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Young eat mainly small crustaceans; adults eat mainly immature aquatic insects such as midges, mayflies, and caddisflies. Uses snout to overturn stones and other objects while searching for food. (B83PAG01NA).
SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Spawns April-July, depending on locality. Eggs hatch in about 8 days at 16.5 C, 5-7 days at 21-23 C. Usually sexually mature in 2 yr., rarely in 1 yr. (B83PAG01NA, B83BEC01NA).
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR: Y
PHENCOMM: Inactive on bottom at night (B83BEC01NA).

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Cen. Canada to St. Lawrence drainage, south Louisiana Gulf Coast; also in Hudson Bay drainage and on mid-Atlantic slope. Introduced in a few places in Great Plains.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: Y |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: Y |
| CALVERT: | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: Y | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Small creeks to rivers, lakes, and reservoirs. Prefers clean riffles and runs over mixed sand and gravel. Often associated with bottom debris.

REPHABCOMM: Eggs laid in sand in lake shallows, or in gravel or sand in swift current, often in riffles, in streams (B83PAG01NA).

SHABCOMM:

## REFERENCES

NATREF: B83PAG01NA B83KUE01NA B83BEC01NA
STATEREF:
ADDITIONAL SOURCES:
B80LEE01NA
B73SCO01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-15
SEDITION: SUPDATE:

ELCODE: AFCQC04170

IDENTIFIERS

NAME: PERCINA NOTOGRAMA
COMNAME: STRIPEBACK DARTER
GRANK: G4 FEDSTATUS: STATE: SRANK: SH STATEPROT: L

TAXONOMY

TAXCLASS: OSTEICHTHYES ORDER: PERCIFORMES
FAMILY: PERCIDAE GENUS: PERCINA
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Stoneflies, presumably immatures, were found in stomachs of 3 of 4 specimens examined (B83PAG01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Apparently spawns March-April (B83PAG01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: PERCINA NOTOGRAMA

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: James R. drainage, Virginia and extreme w. West Virginia, north to Patuxent drainage, Maryland.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: Y |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

PAGE 3: PERCINA NOTOGRAMA

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE:
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Riffles and pools of small to medium size streams; in mainstream rivers, not in brooks. Stony riffles are preferred springtime habitat, especially in weedbeds. Moves into pools adjacent to riffles in summer.
REPHABCOMM: Apparently spawns in riffles (B83PAG01NA).

SHABCOMM:

REFERENCES

NATREF: B83PAG01NA B83KUE01NA B80LEE01NA
STATEREF:
ADDITIONAL SOURCES:

RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-01-16
SEDITION: SUPDATE:

ELCODE: ARADB26010

IDENTIFIERS

NAME: PITUOPHIS MELANOLEUCUS
COMNAME: NORTHERN PINE SNAKE
GRANK: G5 FEDSTATUS: STATE: SRANK: SU STATEPROT:

TAXONOMY

TAXCLASS: REPTILIA ORDER: SQUAMATA
FAMILY: COLUBRIDAE GENUS: PITUOPHIS
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR:
MIGRCOMM: Migrated average of about 500 m between winter den and summer range in Utah (B80PAR01NA).

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: FRUGIVORE:
FOODCOMM: Eats rodents, rabbits, birds and their eggs, and occasionally lizards and insects (BSTE01NA). Often forages underground.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays 1-2 clutches of 2-24 eggs, June-August (B85STE01NA). Eggs hatch in 50-79 days (B79BEH01NA, B80PAR01NA). In Utah, males sexually mature in 1-2 yr., females in 3-5 yr. (B80PAR01NA).
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Home range estimated at 1-2 ha in Utah (B80PAR01NA). Population density estimated at 0.3-1.3/ha in Utah and Idaho (B80PAR01NA, B83NUS01NA).

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: Y CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR:
PHENCOMM: Generally diurnal but may be active at night in hot weather. Active from about April-October in north, March-November in n. Texas (B83NUS01NA, B84TEN01NA). Active during warm winter weather in deep south.

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Atlantic to Pacific coast; north to sw. Canada, Wisconsin, and Virginia, south to s. Baja California, Sinaloa, Veracruz, and s. Florida.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: Y |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: Y |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN: Y

TERREST:
  FOREST: Y
  WOODLAND:
    HARDWOOD: Y
    CONIFER: Y
    MIXED: Y
  SHRUBCHAP: Y
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK: Y
  CLIFF:
  CROPLAND: Y
  SUBURBAN:
  URBAN: Y

SUBTERRAN: Y
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL: Y
  BENTHIC:

HABCOMM: Lowlands to mountains; desert, prairie, brushland, woodland, open coniferous forest, farmland, marshes. Terrestrial, fossorial, and arboreal. Underground in cold weather.

REPHABCOMM: Eggs laid in burrows or cavities underground (B83NUS01NA), or under large rocks or logs (B79BEH01NA).

SHABCOMM:

## REFERENCES

NATREF: B85STE01NA B79BEH01NA B70FIT01NA
STATEREF:
ADDITIONAL SOURCES:
B80PAR01NA
B83NUS01NA
B84TEN01NA
B75MOU01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-11-08
SEDITION: SUPDATE:

ELCODE: ABNME08020

IDENTIFIERS

NAME: PORZANA CAROLINA
COMNAME: SORA
GRANK: G5 FEDSTATUS: STATE: SRANK: S1S2 STATEPROT:

TAXONOMY

TAXCLASS: AVES ORDER: GRUIFORMES
FAMILY: RALLIDAE GENUS: PORZANA
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM: Arrives in northern breeding areas April-May, departs by September-October (B26BEN01NA).

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: Y NECTARVORE:
PISCIVORE: GRANIVORE: Y
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Eats mollusks, insects, seeds of marsh plants, duckweed (B80TER01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch of 6-18 (commonly 10-12) eggs, April-June in west, usually May-July elsewhere. Incubation 18-20 days, by both sexes. Young tended by both parents, leave nest within 1-2 days but may return at night for brooding.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: Y DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds from se. Alaska to n. Sask. and Newf., south locally to nw. Baja Calif., s. New Mex., e. Colo., s. Missouri, cen. Ohio, and Maryland. Winters regularly from cen. Calif. to s. Texas, Gulf coast, and S. Carolina, south to S. America.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: Y | PD: | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: Y | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: Y | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

| | | | |
|---|---|---|---|
| MARINE: | LACUSTRINE: | TERREST: | SUBTERRAN: |
| PELAGIC: | DEEPWATER: | FOREST: | SUBTERREST: |
| ABYSSAL: | SHALLWATER: | WOODLAND: | SUBAQUATIC: |
| NEARSHORE: | PALUSTRINE: Y | HARDWOOD: | SPECFACTOR: |
| ESTUARINE: | TEMPPOOL: | CONIFER: | SNAGHOLLOW: |
| BAYSOUND: | PHERBWET: Y | MIXED: | LOGDEBRIS: |
| RIVERMOUTH: | PSHRUBWET: | SHRUBCHAP: | INSOIL: |
| TIDEPOOL: | PFORWET: Y | SAVANNAH: | BENTHIC: |
| TIDESHORE: | BOGFEN: Y | GRASSLAND: | |
| EHERBWET: | RIPARIAN: Y | DESERT: | |
| ESHRUBWET: | | ALPINE: | |
| EFORWET: | | TUNDRA: | |
| RIVERINE: | | ICE: | |
| BIGRIVER: | | SALTFLAT: | |
| MEDRIVER: | | SAND: | |
| CREEK: | | BAREROCK: | |
| SPRNGBROOK: | | CLIFF: | |
| HIGHGRAD: | | CROPLAND: | |
| MEDIUMGRAD: | | SUBURBAN: | |
| LOWGRAD: | | URBAN: | |
| RIFFLE: | | | |
| POOL: | | | |

HABCOMM: Primarily freshwater marshes, less frequently in flooded fields, sometimes foraging on open mudflats adjacent to marshy habitat. Sedges and cattails where mud and water are deep are preferred. Also swamps and slough borders.

REPHABCOMM: Nests about 15 cm above water level in marsh vegetation.

SHABCOMM:

## REFERENCES

NATREF: B80TER01NA B26BEN01NA B79HAR01NA
STATEREF:
ADDITIONAL SOURCES:
B83COM01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-02-04
SEDITION: SUPDATE:

ELCODE: AAABH01230

IDENTIFIERS

NAME: RANA VIRGATIPES
COMNAME: CARPENTER FROG
GRANK: G5 FEDSTATUS: STATE: SRANK: S2 STATEPROT: L

TAXONOMY

TAXCLASS: AMPHIBIA ORDER: SALIENTIA
FAMILY: RANIDAE GENUS: RANA
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: Y NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Metamorphosed frogs probably eat various small invertebrates. Larvae probably eat algae, plant tissue, organic debris, and possibly some small invertebrates.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clusters of 200-600 eggs , April to August. Eggs hatch in 1-2 weeks. Aquatic larval stage lasts about 1 year.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Often found in smae habitats as Hyla andersonii.

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Coastal Plain from New Jersey to se. Georgia. Spotty distribution.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: Y | QUEEN ANNES: Y |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: Y | TALBOT: Y |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: Y |
| GARRETT: | WORCESTER: Y |

PAGE 3: RANA VIRGATIPES

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET: Y
  BOGFEN: Y
  RIPARIAN: Y

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Sphagnum bogs and swamps and sphagnum borders of lakes and ponds; also tea-colored, slow-moving water with abundant emergent or floating vegetation. Adults found at water's edge or on parlt submerged logs or among vegetation.

REPHABCOMM: Eggs laid and larvae develop in pools in adult year-around habitat (see HABCOMM).

SHABCOMM:

REFERENCES

NATREF: A68GOS01NA B80MAR01NA B79BEH01NA
STATEREF:
ADDITIONAL SOURCES:
B82CRO01NA

RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-10-03
SEDITION: SUPDATE:

ELCODE: AMAFF02020

## IDENTIFIERS

NAME: REITHRODONTOMYS HUMULIS
COMNAME: EASTERN HARVEST MOUSE
GRANK: G5 FEDSTATUS: STATE: SRANK: SU STATEPROT:

## TAXONOMY

TAXCLASS: MAMMALIA ORDER: RODENTIA
FAMILY: CRICETIDAE GENUS: REITHRODONTOMYS
TAXCOMM:

SUBSPCOMM:

## STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM: Common, but usually doesn't peak with high nos. every few yrs. like other small rodents. Frequently seen climbing herbaceous vegetation. A pair (female w/young) usually occupy the globular nests.
GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

## MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

## FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE: Y
INVERTVORE: FRUGIVORE:
FOODCOMM: Prefers seeds of weeds and grasses.

SFOODCOMM:

## REPRODUCTION

COLBREED:
REPROCOMM: Nearly breeds year round, esp. spring. Gestation: 21-22 days 2-7 (ave. 4) young. Sexually mature in 2-4 mos.

SREPROCOMM:

## SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Home range is probably less than an acre. Densities may vary from approx. 2-5 individuals per acre.

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM: Primarily nocturnal.

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Occurs in southeastern U.S. from MD and KY south to TX and FL.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

PAGE 3: REITHRODONTOMYS HUMULIS

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Prefers old fields, marshes and wet meadows.

REPHABCOMM: Nests placed in tangled vegetation under debris or above ground.

SHABCOMM:

REFERENCES

NATREF: B72LOW01NA B79HAM01NA B78DAV01NA
STATEREF:
ADDITIONAL SOURCES:
B81HAL01NA

RECORD MAINTENANCE

GEDITION: - -  GUPDATE: 86-02-14
SEDITION:  SUPDATE:

ELCODE: AAAAG02020

IDENTIFIERS

NAME: SIREN LACERTINA
COMNAME: GREATER SIREN
GRANK: G5 FEDSTATUS: STATE: SRANK: SX STATEPROT: L

TAXONOMY

TAXCLASS: AMPHIBIA ORDER: CAUDATA
FAMILY: SIRENIDAE GENUS: SIREN
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: Y NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Eats a variety of small aquatic animals and also plant material.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: Lays clutch averaging about 500 eggs in Feb.-Mar. Hatching occurs in April-May. Paedomorphic.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: SIREN LACERTINA

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Coastal Plain from District of Columbia through Florida and s. Alabama.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: Y | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL: Y
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Shallow, muddy, weed-choked water: swamps, ponds, lakes, streams, ditches. Found among thick vegetation, under rocks and logs, or burrowed in bottom mud by day. Burrows into bottom mud if water dries up.

REPHABCOMM: Eggs laid in water in small clusters on bottom.

SHABCOMM:

## REFERENCES

NATREF: A73MAR02NA B75MOU01NA B79BEH01NA
STATEREF:
ADDITIONAL SOURCES:
B80MAR01NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 85-09-19
SEDITION: SUPDATE:

ELCODE: AMABA01060

IDENTIFIERS

NAME: SOREX LONGIROSTRIS
COMNAME: SOUTHEASTERN SHREW
GRANK: G5 FEDSTATUS: STATE: SRANK: SU STATEPROT: L

TAXONOMY

TAXCLASS: MAMMALIA ORDER: INSECTIVORA
FAMILY: SORICIDAE GENUS: SOREX
TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM: Difficult to locate & trap; pitfalls set in honeysuckle or thickest, most shrubby growth have worked well (B79HAM01NA). Dismal swamp spp. (S.I.FISHERI) is now being considered for fed. list. in NC/VA. Also S.I. EIENIS in Florida.
GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Small invertebrates, particularly spiders.

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCOMM: 4-5 young born from April through the summer. Gestation probably 2-3 weeks (if same as other shrews). Little is known about this species' life cycle.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Snap traps significantly underestimate the true abundance & density. Pitfalls have been found to better reflect pop. levels (JBOROS01NA)

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: NOCTURNAL: CREPUSCULR:
PHENCOMM: Mostly nocturnal; however, active throughout the day.

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Southeastern U.S., ranging north to IL, and west to Arkansas and extreme eastern Oklahoma.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: Y | LC: |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: | KENT: |
| BALTIMORE CITY: | MONTGOMERY: Y |
| CALVERT: Y | PRINCE GEORGES: Y |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE:
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE:
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE:
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE:
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE:
  DEEPWATER:
  SHALLWATER:
PALUSTRINE: Y
  TEMPPOOL:
  PHERBWET: Y
  PSHRUBWET:
  PFORWET: Y
  BOGFEN: Y
  RIPARIAN: Y

TERREST:
  FOREST: Y
  WOODLAND:
    HARDWOOD: Y
    CONIFER: Y
    MIXED: Y
  SHRUBCHAP: Y
  SAVANNAH:
  GRASSLAND: Y
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND:
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN: Y
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL: Y
  BENTHIC:

HABCOMM: Variety: bogs, damp woods to dense upland shrubby areas. Often associated with Japanese honeysuckle (LONICERA JAPONICA). The rare S.I. FISHERI subspp. is most abundant in mesic successional habitats (J83ROS01NA)

REPHABCOMM: Generally resides underground or on the surface under logs.

SHABCOMM:

## REFERENCES

NATREF: ABOFRE01NA B81SCH01NA B74LOW01NA
STATEREF:
ADDITIONAL SOURCES:
B81HAL01NA
J83ROS01NA
J80ROS01NA
B79HAM01NA

## RECORD MAINTENANCE

GEDITION: - -  GUPDATE: 86-03-13
SEDITION:  SUPDATE:

ELCODE: ABNNM08100

IDENTIFIERS

NAME: STERNA ANTILLARUM
COMNAME: LEAST TERN
GRANK: G4 FEDSTATUS: LE STATE: SRANK: S2 STATEPROT: L

TAXONOMY

TAXCLASS: AVES ORDER: CHARADRIIFORMES
FAMILY: LARIDAE GENUS: STERNA
TAXCOMM: Often considered conspecific with Old World S. albifrons (B83COM01NA).

SUBSPCOMM:

STATUS

FEDMIGRAT: Y MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: LOCALMIGR: Y DISTMIGR: Y
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Eats mainly small fishes and crustaceans obtained by diving from air into surface water.

SFOODCOMM:

REPRODUCTION

COLBREED: Y
REPROCOMM: Lays clutch of 2-3 eggs, mostly May-June (July-August nests probably renests). Incubation usually 20-25 days, mostly by female. Younged tended by both parents, able to walk from nest on 2nd day, fly at about 4 weeks.
SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: STERNA ANTILLARUM

SECOLCOMM:

## PHENOLOGY/SEASONALITY

HIBAEST: CIRCADIAN: DIURNAL: Y NOCTURNAL: CREPUSCULR:
PHENCOMM:

| | | | |
|---|---|---|---|
| JANA: | APRA: | JULA: | OCTA: |
| JANB: | APRB: | JULB: | OCTB: |
| FEBA: | MAYA: | AUGA: | NOVA: |
| FEBB: | MAYB: | AUGB: | NOVB: |
| MARA: | JUNA: | SEPA: | DECA: |
| MARB: | JUNB: | SEPB: | DECB: |

SPHENCOMM:

## DISTRIBUTION

RANGECOMM: Breeds along Pac. coast from cen. Calif. to Baja & Chiapas; in interior U.S. from S.D. to Ohio, south to N.M., Tex., and Tenn..; along Atl.-Gulf coast from Maine to Tex.; & in W. Indies. Winters Baja to s. Mex., & Colombia to e. Brazil.

## IN-STATE RANGE

BAILEY ECOREGIONS:

| | | |
|---|---|---|
| AP: | BR: | UC: Y |
| RV: | PD: | LC: Y |

OWDC WATERSHEDS:

| | | | | |
|---|---|---|---|---|
| 02050306: | 02060004: | 02060008: | 02070003: | 02070010: |
| 02060001: | 02060005: | 02060009: | 02070004: | 02070011: |
| 02060002: | 02060006: | 02060010: | 02070008: | 05020006: |
| 02060003: | 02060007: | 02070002: | 02070009: | |

COUNTY-OF-OCCURRENCE:

| | |
|---|---|
| ALLEGANY: | HARFORD: |
| ANNE ARUNDEL: Y | HOWARD: |
| BALTIMORE: Y | KENT: |
| BALTIMORE CITY: | MONTGOMERY: |
| CALVERT: | PRINCE GEORGES: |
| CAROLINE: | QUEEN ANNES: |
| CARROLL: | SAINT MARYS: Y |
| CECIL: | SOMERSET: |
| CHARLES: | TALBOT: |
| DORCHESTER: Y | WASHINGTON: |
| FREDERICK: | WICOMICO: |
| GARRETT: | WORCESTER: Y |

SRANGECOMM:

SRANGEREF:

## HABITAT

MARINE: Y
  PELAGIC:
  ABYSSAL:
  NEARSHORE:
ESTUARINE: Y
  BAYSOUND:
  RIVERMOUTH:
  TIDEPOOL:
  TIDESHORE: Y
  EHERBWET:
  ESHRUBWET:
  EFORWET:
RIVERINE: Y
  BIGRIVER:
  MEDRIVER:
  CREEK:
  SPRNGBROOK:
    HIGHGRAD:
    MEDIUMGRAD:
    LOWGRAD:
    RIFFLE:
    POOL:

LACUSTRINE: Y
  DEEPWATER:
  SHALLWATER:
PALUSTRINE:
  TEMPPOOL:
  PHERBWET:
  PSHRUBWET:
  PFORWET:
  BOGFEN:
  RIPARIAN:

TERREST:
  FOREST:
  WOODLAND:
    HARDWOOD:
    CONIFER:
    MIXED:
  SHRUBCHAP:
  SAVANNAH:
  GRASSLAND:
  DESERT:
  ALPINE:
  TUNDRA:
  ICE:
  SALTFLAT:
  SAND: Y
  BAREROCK:
  CLIFF:
  CROPLAND:
  SUBURBAN:
  URBAN:

SUBTERRAN:
  SUBTERREST:
  SUBAQUATIC:
SPECFACTOR:
  SNAGHOLLOW:
  LOGDEBRIS:
  INSOIL:
  BENTHIC:

HABCOMM: Seacoasts, beaches, bays, estuaries, lagoons, lakes, and rivers (B83COM01NA).

REPHABCOMM: Nests on ground in small colonies on sandy or gravelly beaches and banks of rivers or lakes, rarely on flat rooftops of buildings (B83COM01NA).

SHABCOMM:

## REFERENCES

NATREF: B80TER01NA B21BEN01NA B83COM01NA
STATEREF:
ADDITIONAL SOURCES:
B78HAR01NA
B77COG01NA
B80FWS12NA

## RECORD MAINTENANCE

GEDITION: 86-04-15 GUPDATE: 86-02-06
SEDITION: SUPDATE:

# SECTION IV

## REFERENCES CITED IN ABSTRACTS FOR UPPER COASTAL PLAIN


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A72THI01MD
THIEN, L.B. AND B.G. MARCKS. 1972. THE FLORAL BIOLOGY OF ARETHUSA BULBOSA, CALOPOGON TUBEROSUS, AND POGONIA OPHIOGLOSSOIDES (ORCHIDACEAE). CAN. J.

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