

RARE AND
ENDANGERED
SPECIES IN
MARYLAND

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SECTION I

RARE AND ENDANGERED SPECIES
IN MARYLAND'S COASTAL COUNTIES:
WESTERN SHORE

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Forest, Park and Wildlife Service

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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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
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 CALYCVLATA	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

LEPTOLOMA COGNATUM
LESPEDAZA ANGUSTIFOLIA
LIMONIUM NASHII
LISTERA AUSTRALIS
LYGODIUM PALMATUM
MATELEA CAROLINENSIS
MATELEA OBLIQUA
MONOTROPSIS ODORATA
NYMPHOIDES AQUATICA
OLDENLANDIA UNIFLORA
PANICUM COMMONSIANUM
PLATANHERA FLAVA
PLUCHEA CAMPHORATA
POLANISIA DODECANDRA
POLYGONUM RAMOSISSIMUM
POLYGONUM ROBUSTIUS
POTAMOGETON PERFOLIATUS
POTAMOGETON RICHARDSONII
POTAMOGETON SPIRILLUS
PUCCINELLIA PALLIDA
PYROLA SECUNDA
RANUNCULUS AMBIGENS
RHYNCHOSIA TOMENTOSA
RHYNCHOSPORA CEPHALANTHA
RHYNCHOSPORA GLOMERATA
ROOTALA RAMOSIOR
SAGITTARIA CALYCINA
SALIX TRISTIS
SARRACENIA PURPUREA
SCHWALBEA AMERICANA
SCIRPUS SMITHII
SCIRPUS SUBTERMINALIS
SENECIO ANONYMUS
SILENE NIVEA
SMILAX PSEUDO-CHINA
SMILAX WALTERI
SOLIDAGO HISPIDA
SOLIDAGO SPECIOSA
SPOROBOLUS ASPER
STENANTHIUM GRAMINEUM
THALICTRUM DASYCARPUM
TOFIELDIA RACEMOSA
TRACHELOSPERMUM DIFFORME
TRIADENUM TUBULOSUM
TRICHOSTEMA SETACEUM
TRIOSTEUM ANGUSTIFOLIUM
UTRICULARIA BIFLORA
UTRICULARIA CORNUTA
UTRICULARIA FIBROSA
VITIS CINEREA

FALL WITCHGRASS
NARROW-LEAVED BUSHCLOVER
NASH'S SEA LAVENDER
SOUTHERN TWAYBLADE
CLIMBING FERN
ANGLEPOD
ANGELPOD
SWEET PINESAP
LARGER FLOATING-HEART
CLUSTERED BLUETS
COMMONS' PANICGRASS
PALE GREEN ORCHIS
MARSH FLEABANE
CLAMMYWEED
BUSHY KNOTWEED
STOUT SMARTWEED
CLASPING-LEAVED PONDWEED
REDHEADGRASS
SPIRAL PONDWEED
PALE MANNAGRASS
ONE-SIDED PYROLA
WATER-PLANTAIN SPEARWORT

CAPITATE BEAKRUSH
CLUSTERED BEAKRUSH
TOOTH-CUP
SPONGY LOPHOCARPUS
DWARF PRAIRIE WILLOW
NORTHERN PITCHER-PLANT
CHAFFSEED
SMITH'S CLUBRUSH
WATER CLUBRUSH
SMALL'S RAGWORT
SNOWY CAMPION
HALBERD-LEAVED GREENBRIER
RED-BERRIED GREENBRIER
HAIRY GOLDENROD
SHOWY GOLDENROD
LONG-LEAVED RUSHGRASS
FEATHERBELLS
PURPLE MEADOWRUE
COASTAL FALSE ASPHODEL
CLIMBING DOGBANE
LARGE MARSH ST. JOHN'S WORT
NARROW-LEAVED BLUECURLS
NARROW-LEAVED HORSE-GENTIAN
TWO-FLOWERED BLADDERWORT
HORNED BLADDERWORT
FIBROUS BLADDERWORT
GRAYBARK

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR BALTIMORE COUNTY

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
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

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

SCUTELLARIA LEONARDII
SENECIO ANONYMUS
SILENE NIVEA
SOLIDAGO HISPIDA
SOLIDAGO SPECIOSA
SPOROBOLUS ASPER
STACHYS HYSSOPIFOLIA
STACHYS LATIDENS
TALINUM TERETIFOLIUM
THASPIUM TRIFOLIATUM
TOFIELDIA RACEMOSA
TRIOSTEUM ANGUSTIFOLIUM
VITIS CINEREA
VITIS RUPESTRIS

LEONARD'S SKULLCAP
SMALL'S RAGWORT
SNOWY CAMPION
HAIRY GOLDENROD
SHOWY GOLDENROD
LONG-LEAVED RUSHGRASS
HYSSOP-LEAVED HEDGE-NETTLE

FAMEFLOWER
PURPLE MEADOW-PARSNIP
COASTAL FALSE ASPHODEL
NARROW-LEAVED HORSE-GENTIAN
GRAYBARK
SAND GRAPE

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR CALVERT COUNTY

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
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

SMILAX PSEUDO-CHINA
SMILAX WALTERI

HALBERD-LEAVED GREENBRIER
RED-BERRIED GREENBRIER

RARE AND ENDANGERED PLANT SPECIES
RECORDED FOR HARFORD COUNTY

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
AMELANCHIER SPICATA	RUNNING JUNE BERRY
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
PYCNANTHEMUM VERTICILLATUM
QUERCUS MACROCARPA
RHYNCHOSPORA GLOBULARIS
SAGITTARIA CALYCINA
SAGITTARIA LONGIROSTRA
SALIX TRISTIS
SCIRPUS CYLINDRICUS
SILENE NIVEA
STELLARIA ALSINE
STENANTHIUM GRAMINEUM
THASPIUM TRIFOLIATUM
TRIADENUM TUBULOSUM

FLATSTEM PONDWEED
WHORLED MOUNTAIN-MINT
MOSSY-CUP OAK
GRASS-LIKE BEAKRUSH
SPONGY LOPHOCARPUS
LONG-BEAKED ARROWHEAD
DWARF PRAIRIE WILLOW
SALT-MARSH BULRUSH
SNOWY CAMPION
TRAILING STITCHWORT
FEATHERBELLS
PURPLE MEADOW-PARSNIP
LARGE MARSH ST. JOHN'S WORT

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

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
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 JUNE BERRY
AMELANCHIER SPICATA	RUNNING JUNE BERRY
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
DESMODIUM LAEVIGATUM
DESMODIUM RIGIDUM
ELEOCHARIS FLAVESCENS
ELEOCHARIS TORTILIS
EUPATORIUM LEUCOLEPIS
EUPATORIUM MACULATUM
EUPHORBIA VERMICULATA
FRAXINUS PROFUNDA
GALACTIA VOLUBILIS
GENTIANA ANDREWSII
GENTIANA VILLOSA
GRATIOLA VISCIDULA
HELIANTHEMUM BICKNELLII
HYPERICUM DENTICULATUM
ILEX DECIDUA
IRIS VERNA
JUNCUS BRACHYCARPUS
JUNCUS LONGII
LACTUCA HIRSUTA
LATHYRUS PALUSTRIS
LECHEA TENUIFOLIA
LESPEDAZA ANGUSTIFOLIA
LINUM FLORIDANUM
LINUM INTERCURSUM
LISTERA AUSTRALIS
LUDWIGIA HIRTELLA
LYCOPODIUM CAROLINIANUM
LYGODIUM PALMATUM
MATELEA CAROLINENSIS
MELICA MUTICA
MYOSOTIS MACROSPERMA
NEMOPHILA APHYLLA
OLDENLANDIA UNIFLORA
ONOSMODIUM VIRGINIANUM
PANICUM ACICULARE
PANICUM COMMONSIANUM
PANICUM OLIGOSANTHES
PANICUM SCABRIUSCULUM
PASSIFLORA INCARNATA
PEDICULARIS LANCEOLATA
PHACELIA RANUNCULACEA
PLANTAGO CORDATA
PLATANThERA FLAVA
PLATANThERA PERAMOENA
PLUCHEA CAMPHORATA
POA PALUSTRIS
POLYGALA CRUCIATA
POLYGONUM DENSIFLORUM
POTAMOGETON AMPLIFOLIUS
POTAMOGETON FOLIOSUS
POTAMOGETON PERFOLIATUS
POTAMOGETON PUSILLUS
POTAMOGETON ROBBINSII

THINLEAF FLATSEDGE
SMOOTH TICK-TREFOIL
RIGID TICK-TREFOIL
PALE SPIKERUSH
TWISTED SPIKERUSH
WHITE-BRACTED BONESET
SPOTTED JOE-PYE-WEED
HAIRY SPURGE
PUMPKIN ASH
DOWNY MILK PEA
FRINGE-TIP CLOSED GENTIAN
STRIPED GENTIAN
SHORT'S HEDGE-HYSSOP
HOARY FROSTWEED
COPPERY ST. JOHN'S-WORT
DECIDUOUS HOLLY
DWARF IRIS
SHORT-FRUITED RUSH
BAYARD LONG RUSH
HAIRY LETTUCE
VETCHLING
NARROW-LEAVED PINWEED
NARROW-LEAVED BUSHCLOVER
FLORIDA YELLOW FLAX
YELLOW FLAX
SOUTHERN TWAYBLADE
HAIRY LUDWIGIA
CAROLINA CLUBMOSS
CLIMBING FERN
ANGLEPOD
NARROW MELICGRASS
LARGE-SEEDED FORGET-ME-NOT

CLUSTERED BLUETS
VIRGINIA FALSE-GROMWELL
BRISTLING PANICGRASS
COMMONS' PANICGRASS
FEW-FLOWERED PANICGRASS
TALL SWAMP PANICGRASS
PURPLE PASSION-FLOWER
SWAMP LOUSEWORT
COVILLE'S PHACELIA
HEART-LEAVED PLANTAIN
PALE GREEN ORCHIS
PURPLE FRINGELESS ORCHIS
MARSH FLEABANE
FOWL BLUEGRASS
CROSS-LEAVED MILKWORT
DENSE-FLOWERED KNOTWEED
LARGE-LEAVED PONDWEED
LEAFY PONDWEED
CLASPING-LEAVED PONDWEED
SLENDER PONDWEED
ROBBINS' PONDWEED

POTAMOGETON SPIRILLUS
POTAMOGETON ZOSTERIFORMIS
PUCCINELLIA PALLIDA
PYCNANTHEMUM TORREI
PYCNANTHEMUM VERTICILLATUM
PYROLA SECUNDA
PYROLA VIRENS
RANUNCULUS AMBIGENS
RANUNCULUS FLABELLARIIS
RANUNCULUS HEDERACEUS
RHYNCHOSPORA CEPHALANTHA
RHYNCHOSPORA CORNICULATA
RHYNCHOSPORA GLOBULARIS
RHYNCHOSPORA GLOMERATA
RHYNCHOSPORA KNEISKERNII
RHYNCHOSPORA MICROCEPHALA
ROSA SETIGERA
ROOTALA RAMOSIOR
SAGITTARIA ENGELMANNIANA
SAGITTARIA LONGIROSTRA
SALIX TRISTIS
SARRACENIA PURPUREA
SCIRPUS ACUTUS
SCIRPUS SMITHII
SCLERIA RETICULARIS
SCUTELLARIA PARVULA
SENECIO ANONYMUS
SILENE NIVEA
SMILAX PSEUDO-CHINA
SOLIDAGO SPECIOSA
STACHYS CORDATA
STENANTHIUM GRAMINEUM
TALINUM TERETIFOLIUM
TOFIELDIA RACEMOSA
TRIOSTEUM ANGUSTIFOLIUM
VITIS CINEREA
VITIS RUPESTRIS

SPIRAL PONDWEED
FLATSTEM PONDWEED
PALE MANNAGRASS
TORREY'S MOUNTAIN-MINT
WHORLED MOUNTAIN-MINT
ONE-SIDED PYROLA
GREENISH-FLOWERED PYROLA
WATER-PLANTAIN SPEARWORT
YELLOW WATER-CROWFOOT
LONG-STALKED CROWFOOT
CAPITATE BEAKRUSH
SHORT-BRISTLED HORNEDRUSH
GRASS-LIKE BEAKRUSH
CLUSTERED BEAKRUSH
KNEISKERN'S BEAKRUSH
TINY-HEADED BEAKRUSH
PRAIRIE ROSE
TOOTH-CUP
ENGELMANN'S ARROWHEAD
LONG-BEAKED ARROWHEAD
DWARF PRAIRIE WILLOW
NORTHERN PITCHER-PLANT
HARD-STEM BULLRUSH
SMITH'S CLUBRUSH
RETICULATED NUTRUSH
SMALL SKULLCAP
SMALL'S RAGWORT
SNOWY CAMPION
HALBERD-LEAVED GREENBRIER
SHOWY GOLDENROD
NUTTALL'S HEDGE-NETTLE
FEATHERBELLS
FAMEFLOWER
COASTAL FALSE ASPHODEL
NARROW-LEAVED HORSE-GENTIAN
GRAYBARK
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
ROOTALA 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 foreseeable 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 = Allegheny 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 Coastal 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

FEB A 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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR Y
WA
AL Y
GA Y

ALL

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: B68RADO1MD 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: A80FERO1MD
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:	ALL
CE	HA	MO	
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, DULICHIMUM, 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: B50FERO1MD

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: B50FERO1MD
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: PDSCRO1060

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: B68RADO1MD B50FERO1MD

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: B68RADO1MD B50FERO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE Y
QA
CN
TA
DO
WI Y
SO
WO Y

WESTERN SHORE:

HA
BA Y
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

;

:

FORM FILLED: 87-03-13 RAP

UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDSCRO10L0

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: B68RADO1MD B50FERO1MD

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: PDSCR010SO 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: B68RADO1MD
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: B68RADO1MD
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: B6BRADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

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

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID 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 B83HOU01MD
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: PDR0503050

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; INFLO. AXIS FINELY-DENSELY PUBESCENT; EG LANDULAR (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: B50FERO1MD
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: B46TATO1MD B68RADO1MD
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: PMLILO1010

SRANK:

PROTECTION STATUS: EE

NAME: ALETRIS AUREA

TAXONOMIC COMMENT: DIFFERS FROM A. FARINOSA, WHITE-FLOWERING SPECIES THAT IS LOCALLY COMMON 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: B68RADO1MD B50FERO1MD
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
NON-TIDAL WETLANDS (NHP)

SOURCES:
COMMENTS:

SUBSTRATES:

HYDRIC Y
MESIC Y
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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 B6BRAD01MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
GA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: PDR0505090

SRANK: B2

PROTECTION STATUS:

NAME: AMELANCHIER OBOVALIS

TAXONOMIC COMMENT:

COMMON NAME: COASTAL JUNE BERRY

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 B68RADO1MD
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 B6BRAD01MD
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: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDR05050D0

SRANK: B2

PROTECTION STATUS:

NAME: AMELANCHIER SPICATA

TAXONOMIC COMMENT: SYN=A. STOLONIFERA

COMMON NAME: RUNNING JUNE BERRY

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: B6BRAD01MD B83HOU01MD
COMMENTS:

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

GENERAL HABITAT TYPE:

TIDAL WETLAND:	NON-TIDAL WETLAND: Y	UPLAND: Y
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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: B6BRAD01MD
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: BID 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 B50FERO1MD
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: AMMANNIA LATIFOLIA

SOURCES:
COMMENTS:

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

SOURCES: B6BRAD01MD B50FERO1MD
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	
GA	AA	CL	
CN	PG	FR	
TA	CT	WA	
DO Y	CH Y	AL	
WI	SM Y	GA	
SO			
WD 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: B6BRADO1MD B5OFERO1MD
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: BID 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: B6BRAD01MD B50FERO1MD
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: B6BRADO1MD B5OFERO1MD
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	
SD			
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 B46TATO1MD 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 B83HQU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE Y
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR Y
WA
AL
GA Y

ALL

COMMENTS:

GENERAL COMMENTS:

FLOWERS MOSTLY IN SEPTEMBER. (B83HQU01MD)

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

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOAOCOGO

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 B68RADO1MD 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: B46TATO1MD B6BRAD01MD
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 RIVERS (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 B83HQU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA Y
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID 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 B6BRAD01MD 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: B68RADO1MD B50FERO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: B68RADO1MD

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
MESIC Y
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAP006030

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: B50FERO1MD 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: B50FERO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE Y	HA	MO Y	
KE Y	BA	HO	
GA	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: B50FERO1MD 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	FR	
TA	CT	WA	
DO	CH	AL	
WI	SM	GA	
SO			
WO			

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 B6BRAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

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

INDICATOR STATUS: OBL

PRIMARY HABITATS:
BOG

SOURCES: A7SHEN02MD 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: B68RADO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
KE	BA	HO	
GA	AA	CL	
CN	PG Y	FR	
TA	CT	WA	
DO	CH	AL	
WI	SM	GA	
SD			
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. (A75HENO2MD) VEG. REPRO. BY BULBOUS CORM WITH
FLESHY ROOTS. FLORAL CHARACTERS, PHOTO, POLLINATION. (A72THIO
1MD)

LAST LIT. SEARCH: BID 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 B68RADO1MD 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: B46TATO1MD B68RADO1MD AB3RIE01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PMPOAOKOAO

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: B6BRADO1MD B5OFER01MD
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: B6BRADO1MD
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: PMPOAOKOLO

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: B6BRAD01MD
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. (ABSALLO1MD)

LAST LIT. SEARCH: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDARIO10HO

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
FEB A 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 B6BRAD01MD 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: B46TATO1MD B68RADO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
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DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: 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			
WD			

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: B46TATO1MD B68RADO1MD
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 B6BRAD01MD
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: PDR0S06030

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
FEB A 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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: ARONIA PRUNIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:

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

SOURCES: B46TATO1MD B50FERO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-04-03 RAP

UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMP0AOP010 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: B6BRAD01MD BB3HOU01MD
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: A82STAO1MD B6BRADO1MD
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			
WD Y			

COMMENTS:

GENERAL COMMENTS:
TAXONOMIC TREATMENT IN MCCLURE. EXCELLENT LINE DRAWINGS. FROST TOLERANT. (A73MCC01MD)
ASSOCIATED SMALL MAMMALS IN STANKAVICH AND ROSE. (A82STAO1MD)
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: B6BRAD01MD B50FERO1MD
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: B68RADO1MD B50FERO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PDASCO21M0 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: AB3JOHO1MD B68RADO1MD B83HQUO1MD
 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: A83JOHO1MD B6BRADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN Y
TA
DO
WI
SO
WO Y

WESTERN SHORE:

HA
BA Y
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

COASTAL PLAIN FROM NEW JERSEY TO TEXAS; TAXONOMIC TREATMENT
AND DISTRIBUTION IN VIRGINIA. (A83JOHO1MD)

LAST LIT. SEARCH: BIO PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASCO21J0

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: B46TATO1MD B6BRADO1MD BB3HDOUO1MD

COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:	NON-TIDAL WETLAND: Y	UPLAND: Y
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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: B46TATO1MD B6BRADO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PDASCO2240

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: B46TATO1MD B68RADO1MD 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: B46TATO1MD B6BRADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

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

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPASPO2050 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: B6BRADO1MD 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: B6BRADO1MD 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	
GA	AA	CL	
CN	PG	FR Y	
TA	CT	WA	
DO	CH	AL	
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SO			
WO			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PPASPO2100

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: B6BRADO1MD B83HOU01MD

COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:	NON-TIDAL WETLAND:	UPLAND: Y
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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: B6BRADO1MD
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
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QA	AA	CL	
CN	PG	FR Y	
TA	CT	WA Y	
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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: B46TATO1MD B68RADO1MD 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: B46TATO1MD B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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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: ABOHARO1MD B5OFERO1MD
 COMMENTS:

SEARCH IMAGE:

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

INDICATOR STATUS:

PRIMARY HABITATS:
 SERPENTINE BARREN ENDEMIC

SOURCES: ABOHARO1MD
 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. (ABOHAR01MD)

LAST LIT.SEARCH: BID 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: B6BRAD01MD 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	
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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 B68RADO1MD 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 WOODDED ROAD BANKS (2);
ROCKY SLOPES (3).

SOURCES: B46TATO1MD B6BRADO1MD B83HQU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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QA	AA	CL	
CN	PG	FR	
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COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOT1ZO

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
FEB A 0	APRA 0	JUNA 0	AUGA 0	OCTA 2	DECA 0
FEBB 0	APRB 0	JUNB 0	AUGB 1	OCTB 2	DECB 0

SOURCES: B50FERO1MD B83HOUO1MD

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: B50FERO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

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WESTERN SHORE:

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PIEDMONT-MONTANE:

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WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

;

:

FORM FILLED: 87-04-06 RAP

UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDASTOT260

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: PDASTOT2PO

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
FEB A 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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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	
GA	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
FEB A 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: B68RADO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
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SO
WO

WESTERN SHORE:

HA Y
BA Y
AA Y
PG Y
CT Y
CH Y
SM

PIEDMONT-MONTANE:

MO
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WA Y
AL
GA Y

ALL

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
FEB A 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 B68RADO1MD 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	BASIC	CLAY		LIMESTONE
		GRAVEL		SANDSTONE
		PEAT		IGNEOUS

PAGE 2: ATRIPLEX ARENARIA

SOURCES:
COMMENTS:

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

SOURCES: B46TAT01MD B68RADO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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CN	PG	FR	
TA	CT	WA	
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WI	SM	GA	
SO			
WO			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID 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: B6BRAD01MD 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: B6BRADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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WESTERN SHORE:

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PIEDMONT-MONTANE:

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ALL

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: B46TATO1MD B50FER01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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WESTERN SHORE:

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PIEDMONT-MONTANE:

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COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID 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 B6BRAD01MD B83HQU01MD
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: BARTONIA PANICULATA

SOURCES:
COMMENTS:

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

SOURCES: B46TATO1MD B68RADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
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COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID 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 B68RADO1MD 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: B6BRADO1MD BB3HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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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: B50FERO1MD B83HQUJ01MD

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: A80FERO1MD

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:

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PIEDMONT-MONTANE:

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ALL

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. (A80FERO1MD)

LAST LIT. SEARCH: BIO PREV:

;

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FORM FILLED: 87-03-27 RAP

UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST180FO

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: B6BRADO1MD B83HQU01MD

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: A78BUTO1MD B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
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DO Y
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WESTERN SHORE:

HA Y
BA Y
AA
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PIEDMONT-MONTANE:

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ALL

COMMENTS:

GENERAL COMMENTS:

NATIVE TO EASTERN NORTH AMERICA; ALSO OCCURS MIDWEST.
(A78BUTO1MD)

LAST LIT. SEARCH: BIO PREV:

;

;

FORM FILLED: 87-03-16 RAP

UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST180LO

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: B6BRADO1MD B83HOUO1MD

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: A83ROBO1MD

COMMENTS:

SUBSTRATES:

HYDRIC Y
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: BIDENS DISCOIDEA

SOURCES:
COMMENTS:

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

SOURCES: B6BRADO1MD B83HQUO1MD
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. (AB3ROBO1MD)

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
 BIENNIAL
 PERENNIAL

HERB Y
 SHRUB
 TREE

VINE

EVERGREEN

FLOWER/FRUIT NEEDED FOR 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: B6BRADO1MD B5OFERO1MD

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
 MESIC
 XERIC

ACIDIC
 NEUTRAL
 BASIC

SAND
 LOAM
 CLAY
 GRAVEL
 PEAT

SERPENTINE
 SHALE
 LIMESTONE
 SANDSTONE
 IGNEOUS

PAGE 2: BIDENS MITIS

SOURCES:
COMMENTS:

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

SOURCES: B68RADO1MD
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: BID 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: B6BRAD01MD 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 B6BRAD01MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE Y
KE
QA Y
CN Y
TA Y
DO
WI Y
SO
WO

WESTERN SHORE:

HA Y
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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 B68RADO1MD
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: BORRICHIA FRUTESCENS

SOURCES:
COMMENTS:

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

SOURCES: B46TATO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
KE	BA	HO	
QA	AA	CL	
CN	PG	FR	
TA	CT	WA	
DO	CH	AL	
WI	SM	GA	
SD			
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: B50FERO1MD 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 B68RADO1MD
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: PMPQA151M0

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: B68RADO1MD 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
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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 B68RADO1MD B46TATO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE Y
KE
QA
CN
TA
DO
WI Y
SD
WD

WESTERN SHORE:

HA
BA Y
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA
AL Y
GA

ALL

COMMENTS:

GENERAL COMMENTS:

SYNONYMY PROBLEM SUMMARIZED IN MCNEILL. NAME CHANGE SUGGESTED
IN MCNEILL (A76MCNO1MD) IS ERRONEOUS. (A77MCNO1MD)
SELF- AND CROSS-POLLINATE. (A85MCK01MD)

LAST LIT. SEARCH: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA150ZO 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 O	MARA O	MAYA O	JULA 2	SEPA O	NOVA O
JANB O	MARB O	MAYB O	JULB 2	SEPB O	NOVB O
FEBA O	APRA O	JUNA O	AUGA 2	OCTA O	DECA O
FEBB O	APRB O	JUNB O	AUGB 2	OCTB O	DECB O

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: A7BBEN01MD 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 B6BRAD01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE Y	HA Y	MO Y	
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: B6BRAD01MD B5OFER01MD

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: B68RADO1MD B50FERO1MD
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: BID PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST1K0AO

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: B68RADO1MD B50FERO1MD
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: B68RADO1MD B46TATO1MD
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 B68RADO1MD

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
MESIC Y
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CALLICARPA AMERICANA

SOURCES:
COMMENTS:

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

SOURCES: B46TATO1MD B68RADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PDCLL010DO

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: B46TATO1MD B50FERO1MD
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: PMORCOC040 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 B6BRAD01MD
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 CALO-
POGON TUBEROSUS OCCUR WITHOUT ARETHUSA BULBOSA AND POGONIA
OPHIQGLOSSOIDES; 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: PDCAMO20T0

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: B50FERO1MD B83HOLU01MD

COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:	NON-TIDAL WETLAND: Y	UPLAND: Y
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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: B50FERO1MD 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: PDBRAOKOLO

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 BB3HOU01MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CARDAMINE LONGII

SOURCES:
COMMENTS:

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

SOURCES: B50FERO1MD
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: B46TATO1MD B68RADO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: BID 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
FEB A 0	APRA 0	JUNA 3	AUGA 0	OCTA 0	DECA 0
FEBB 0	APRB 1	JUNB 3	AUGB 0	OCTB 0	DECB 0

SOURCES: B50FERO1MD 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
MESIC Y
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CARDAMINE PRATENSIS

SOURCES:
COMMENTS:

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

SOURCES: A7380U01MD B50FERO1MD
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 BB3HOU01MD

COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:	NON-TIDAL WETLAND: Y	UPLAND: Y
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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: B50FERO1MD 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	
SD			
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: B46TATO1MD B68RADO1MD 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: B46TATO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: BID 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
FEB A 0	APRA 0	JUNA 2	AUGA 0	OCTA 0	DECA 0
FEBB 0	APRB 2	JUNB 2	AUGB 0	OCTB 0	DECB 0

SOURCES: B68RADO1MD 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: A86NACO1MD
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: B68RADO1MD BB3HQU01MD
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:	ALL
CE	HA	MO	
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: B6BRADO1MD B83HQU01MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CAREX BROMOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW WOODS (1); RICH, LOW, WET SOIL OF WOODS, SWAMPS,
BOGS (2).

SOURCES: B6BRAD01MD 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
FEB A 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 B6BRAD01MD 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 B68RADO1MD
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	
GA	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

BIENNIAL

PERENNIAL Y

HERB Y

SHRUB

TREE

VINE

EVERGREEN

FLOWER/FRUIT NEEDED FOR 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

MESIC

XERIC

ACIDIC

NEUTRAL

BASIC

SAND

LOAM

CLAY

GRAVEL

PEAT

SERPENTINE

SHALE

LIMESTONE

SANDSTONE

IGNEOUS

PAGE 2: CAREX BUSHII

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS, WOODS AND MEADOWS (1);

SOURCES: B46TATO1MD
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: B6BRAD01MD B83HQU01MD

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: B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE Y	HA Y	MO	
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: BID 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 B6BRAD01MD 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 B6BRAD01MD
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	
GA	AA	CL	
CN	PG	FR	
TA	CT	WA	
DO	CH	AL	
WI	SM	GA	
SO			
WO			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BID PREV: ; :

FORM FILLED: 87-04-08 RAP UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYPO32PO

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: B5OFER01MD B83HQU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:	NON-TIDAL WETLAND: Y	UPLAND: Y
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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	
SD			
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: B46TATO1MD 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: B46TATO1MD B6BRADO1MD
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:	ALL
CE	HA	MO	
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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. (A74REZO1MD) 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 GLAUDESCENS

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 GLAUDESCENS

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: B68RADO1MD 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:	ALL
CE	HA Y	MO Y	
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: PMCYPO36A0

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: B88RAD01MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
TA
DO
WI
SO
WO Y

WESTERN SHORE:

HA
BA
AA Y
PG Y
CT Y
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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
FEB A 0	APRA 0	JUNA 2	AUGA 0	OCTA 0	DECA 0
FEBB 0	APRB 0	JUNB 2	AUGB 0	OCTB 0	DECB 0

SOURCES: B68RADO1MD B50FERO1MD B83HOUO1MD
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: B68RADO1MD B50FERO1MD
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:	ALL
CE	HA	MO	
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: B50FERO1MD B46TATO1MD
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 QUAGMIRE, 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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: B46TATO1MD 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
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CAREX MESOCHOREA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY, OPEN PLACES (1); OPEN WOODS AND GRASSLANDS (2).

SOURCES: B46TATO1MD B50FERO1MD
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
MESIC
XERIC

ACIDIC Y
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:	ALL
CE	HA	MO	
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: PMCYP03CCO

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: PMCYP03CFO

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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA Y
AL Y
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ;

FORM FILLED: 87-04-06 RAP

UPDATE: 87-09-02 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP03CGO

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
MESIC Y
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:	ALL
CE	HA	MO	
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: PMCYPO3DJ0 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: B68RADO1MD 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: PMCYP03DSO

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: PMCYPO3DY0

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CAREX TRICHOCARPA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES (1); MARSHES, SWAMPS AND ALLUVIUM (2).

SOURCES: B68RADO1MD 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: PMCYPO3E60

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: B68RADO1MD 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: PMCYPO3EBO 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: B68RADO1MD 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: PMCYPO3EFO

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: PMCYP03EVO 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:	ALL
CE	HA	MO Y	
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 FALLIDA

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: B46TATO1MD B68RAD01MD B83HOU01MD
COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:

NON-TIDAL WETLAND:

UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:
COMMENTS:

SUBSTRATES:

HYDRIC
MESIC Y
XERIC Y

ACIDIC Y
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL Y
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: B46TATO1MD 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: B50FERO1MD
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: B68RADO1MD B50FER01MD
COMMENTS:

SEARCH IMAGE: LEAVES YELLOWISH-GREEN ON BOTH SURFACES, LANCEOLATE, ENTIRE OR 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: B68RADO1MD
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 THAN 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:	ALL
CE	HA	MO	
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: B68RADO1MD B50FERO1MD
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: B68RADO1MD 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: B68RADO1MD 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 CALYCVLATA

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 CALYCVLATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
POOL MARGIN (1); BOGS AND FOCOSINS (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)
(A70SWAO1MD) 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: PMLILOF010

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 B68RADO1MD 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: PDSCROF040

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: A70C0002MD 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.
(A70C0002MD)

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
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

CE Y
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO Y
CL
FR
WA Y
AL
GA

ALL

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: B68RADO1MD B50FERO1MD

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 B68RADO1MD
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CLADIUM MARISCOIDES

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MARSHES, POND BORDERS AND DUNE HOLLOWES (1); BOGS (2).

SOURCES: B46TATO1MD 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: PMORCOK010

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: B68RADO1MD 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: B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR Y
WA
AL
GA Y

ALL

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: PMORCOM060 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: B88RAD01MD 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: B68RADO1MD 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: B68RADO1MD B50FERO1MD
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: B68RADO1MD 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: PDAST2LOW0

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: PDAST2LOXO

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: B68RADO1MD B50FERO1MD

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
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:	ALL
CE	HA	MO	
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC Y

SAND Y
LOAM
CLAY
GRAVEL Y
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

CE
KE
QA
CN
TA
DO
WI Y
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH Y
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: PDEUPOJ010

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: B46TATO1MD 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:

CE
KE
QA Y
CN
TA Y
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA Y
PG
CT
CH
SM Y

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA
AL
GA Y

ALL

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
BIENNIAL
PERENNIAL

HERB
SHRUB
TREE

VINE Y

EVERGREEN

FLOWER/FRUIT NEEDED FOR 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
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: B68RADO1MD B50FERO1MD
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:	ALL
CE	HA	MO	
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QA	AA	CL	
CN	PG	FR	
TA	CT	WA	
DO	CH	AL	
WI	SM	GA	
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WO			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

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

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP060NO

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: B68RADO1MD 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: CYPHERUS DENTATUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW SANDY AREAS (1); WET OR MOIST, SANDY OR GRAVELLY SOIL OF
WATERSIDES, SWAMPS (2).

SOURCES: B68RADO1MD 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: B46TATO1MD 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 ERYTHORRHIZOS

TAXONOMIC COMMENT:

COMMON NAME: RED-ROOT FLATSEEDGE

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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
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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:	ALL
CE	HA	MO	
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: CYPHERUS 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 FLATSEGE

FAMILY: CYPERACEAE

HABIT: ANNUAL Y
BIENNIAL
PERENNIAL

HERB
SHRUB
TREE

VINE

EVERGREEN

FLOWER/FRUIT NEEDED FOR 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: B68RADO1MD 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
MESIC Y
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: CYPERUS TENUIFOLIUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW FIELDS, DITCHES AND MARSHES (1);

SOURCES: B68RADO1MD
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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: PDFAB1DOT0

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
MESIC
KERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

CE Y
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WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: B68RADO1MD 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: B68RADO1MD

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
MESIC Y
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: DICHONDRA CAROLINENSIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
LOW SANDY PINELANDS, ROADSIDES AND LAWNS (1);

SOURCES: B68RADO1MD
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	
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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	
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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: B68RADO1MD 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

PAGE 2: DROSER A ROTUNDIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SPHAGNUM BOGS AND LAKE MARGINS (1); WET, PEATY ACID SOILS OF
BOGS, CEDAR SWAMPS (2).

SOURCES: B68RADO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PPASPOC040

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: B68RADO1MD 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:

CE
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WI
SO
WO Y

WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: PMALIO2010

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: B68RADO1MD 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: PDELTO2060

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: B50FERO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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WESTERN SHORE:

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BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
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CL
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WA
AL
GA

ALL

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: PMCYP090MO

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:	ALL
CE	HA	MO	
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

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: B68RADO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: B68RADO1MD 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:

CE
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PIEDMONT-MONTANE:

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ALL

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: B68RADO1MD 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: B68RADO1MD B50FERO1MD
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	
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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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:	ALL
CE Y	HA	MO	
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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

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:

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WESTERN SHORE:

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PG
CT
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SM

PIEDMONT-MONTANE:

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CL
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WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

;

:

FORM FILLED: 87-04-10 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYPO9110

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 B68RADO1MD
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: B46TATO1MD 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 B68RADO1MD
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: B68RADO1MD 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:	ALL
CE	HA	MO	
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QA	AA	CL	
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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:	ALL
CE	HA	MO	
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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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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 B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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WESTERN SHORE:

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AA Y
PG Y
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PIEDMONT-MONTANE:

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AL
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ALL

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 B68RADO1MD 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:

CE
KE
QA
CN Y
TA Y
DO Y
WI Y
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WO Y

WESTERN SHORE:

HA
BA
AA Y
PG Y
CT Y
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
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WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4KOSO 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: B68RADO1MD 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: PMPOA240QO

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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	ALL
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			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

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: B68RADO1MD B50FERO1MD 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 B68RADO1MD
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	
TA	CT	WA	
DO	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:

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: PDSAXOP010 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: B68RADO1MD B50FERO1MD
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

PAGE 2: PARNASSIA ASARIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS AND SEEPAGE SLOPES (1); BOGS, WET WOODS AND ROCKY
BANKS (2).

SOURCES: B68RAD01MD B50FERO1MD
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 COM-
PONENT OF HIGHLAND VEGETATION IN SO. APPALACHIANS. (A80FARO1MD)

LAST LIT. SEARCH: BIO PREV: ; / :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMPOA4POJ0

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 B50FERO1MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: PASSIFLORA INCARNATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
FIELDS, ROADSIDES, FENCE ROWS AND THICKETS (1);

SOURCES: B68RADO1MD
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

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: PDSCR1KOM0

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: B46TATO1MD 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: B68RADO1MD B50FERO1MD B83HOUO1MD
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: PDHYDOC420

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: B68RADO1MD A70TERO1MD B50FERO1MD
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
MESIC Y
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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	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:
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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: PHALARIS CAROLINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DITCHES, ROADSIDES AND WASTE PLACES (1); SANDY SOIL (2).

SOURCES: B68RADO1MD 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: B46TATO1MD B68RADO1MD 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: B46TATO1MD B50FERO1MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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 B68RADO1MD

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 A83SPO02MD
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 SUB-
MERGED; BEST ADAPTED TO LONG-STANDING, STABLE STREAM ENVIRON-
MENTS 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: B46TATO1MD 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: B46STAT01MD B68RADO1MD A75HEN02MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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

PAGE 2: PLATANThERA CRISTATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SWAMP, WET ROADSIDES AND LOW WOODS (1); BOGS, LOW MEADOWS,
SWAMPS AND FOCOSINS (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:	ALL
CE	HA	MO	
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 A75HENO2MD
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 A75HENO2MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE Y
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QA
CN
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WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR Y
WA
AL Y
GA Y

ALL

COMMENTS:

GENERAL COMMENTS:

KEY TO SPECIES OF HABENARIA, LINE DRAWING IN HENRY. RANGES FROM ALABAMA AND ARKANSAS NORTH TO NEW JERSEY AND SOUTHERN ILLINOIS. (A75HENO2MD) 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: PMORC1YOM0 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 B68RADO1MD 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 B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE Y
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR Y
WA
AL
GA Y

ALL

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: B68RADO1MD 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:

CE Y
KE
QA
CN
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DO
WI
SO
WO Y

WESTERN SHORE:

HA
BA
AA Y
PG Y
CT Y
CH Y
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: B68RADO1MD 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

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:

CE
KE
QA
CN
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WESTERN SHORE:

HA
BA Y
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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

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:

CE
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WESTERN SHORE:

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BA
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PG
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PIEDMONT-MONTANE:

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COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-04-27 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPLMOE0LO 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	
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WO			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-04-27 RAP UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGLO20EO 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: B68RADO1MD B83HOU01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

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WESTERN SHORE:

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AA
PG Y
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PIEDMONT-MONTANE:

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ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-03-23 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDFGL020F0

SRANK: C

PROTECTION STATUS:

NAME: POLYGALA CURTISSII

TAXONOMIC COMMENT:

COMMON NAME: CURTISS MILKWORT

FAMILY: POLYGALACEAE

HABIT: ANNUAL Y
BIENNIAL
PERENNIAL

HERB Y
SHRUB
TREE

VINE

EVERGREEN

FLOWER/FRUIT NEEDED FOR 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: B68RADO1MD 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
MESIC Y
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

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WESTERN SHORE:

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PIEDMONT-MONTANE:

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ALL

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 SEALS (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	
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WI	SM	GA	
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WO			

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-25 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGNOLOWO 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

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	
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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:

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WESTERN SHORE:

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PIEDMONT-MONTANE:

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ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-03-25 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGNOL220

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	
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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	
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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: B68RADO1MD 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: B88RAD01MD 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 B50FERO1MD 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

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

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

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: PMPOT03OX0

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: B50FERO1MD 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 OCCASIONALLY 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:

CE Y
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA Y
BA
AA Y
PG
CT
CH Y
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: B68RADO1MD B46TATO1MD
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: PDLAM1NOGO 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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO Y
CL
FR Y
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-04-27 RAP

UPDATE: 87-09-04 RAP

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WOODLANDS AND WOODLAND BORDERS (1); DRY OR MOIST OPEN GROUND
OF THIN WOODS AND SHADED EDGES, SWAMP EDGES (2).

SOURCES: B68RADO1MD 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: PDLAM1NOJO

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: PDERIOX010

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

PAGE 2: PYROLA VIRENS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY PINE WOODS (1); DRY OR DRYISH CONIFEROUS WOODS AND
THICKETS (2).

SOURCES: B46TAT01MD B50FERO1MD
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	
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: 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 B68RADO1MD B83HOU01MD

COMMENTS:

SEARCH IMAGE: LEAVES LOBED, PUBESCENCE ON LOWER SURFACE PERCEPTIBLE TO TOUCH
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

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

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 B68RADO1MD B83HOU01MD

COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:

NON-TIDAL WETLAND: Y

UPLAND: Y

INDICATOR STATUS:

PRIMARY HABITATS:

SOURCES:

COMMENTS:

SUBSTRATES:

HYDRIC Y
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL Y
PEAT

SERPENTINE Y
SHALE
LIMESTONE
SANDSTONE
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

PAGE 2: QUERCUS VIRGINIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SANDY WOODS (1); SANDY, DRY TO WET SOIL, CHIEFLY NEAR THE
COAST (2).

SOURCES: B68RADO1MD 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 (B68RADO1MD)

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDRAN0L080

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: B68RADO1MD B50FERO1MD
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 B68RADO1MD
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: PDRAN01160

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: B68RADO1MD 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: B50FERO1MD B83HOU01MD
 COMMENTS:

SEARCH IMAGE: PETALS WHITE; PLANTS WITH FINELY DISSECTED LEAVES ONLY; ACHENE
 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:	ALL
CE	HA	MO	
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 PENNSYLVANICUS

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: B46TATO1MD B50FERO1MD B83HOU01MD
 COMMENTS:

SEARCH IMAGE: PETALS YELLOW, 2-5 MM LONG (VS. LONGER) 5 OR MORE SEPAL, PETAL
 DIST. SHORT. THAN SEPAL; 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: PDRAN0L270

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:	ALL
CE	HA	MO	
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 WITH 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:	ALL
CE	HA	MO	
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
JANE 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:

CE
KE
QA
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SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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	AFRA 0	JUNA 1	AUGA 3	OCTA 3	DECA 0
FEBB 0	APRB 0	JUNB 1	AUGB 3	OCTB 0	DECB 0

SOURCES: B50FER01MD B68RADO1MD
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: B68RADO1MD B50FERO1MD
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: PDFAB3FOGO 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: B68RADO1MD
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: PMCYF0N010 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: E46TAT01MD 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: PMCYPONAO

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: B68RADO1MD B50FERO1MD

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: B46TATO1MD B68RAD01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PMCYPONOBO 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: B68RADO1MD B50FERO1MD 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:

CE
KE
QA
CN
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DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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: PMCYPONOF0 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: B68RADO1MD
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: A86NACO1MD
COMMENTS:

SUBSTRATES:

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

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DITCHES, MARSHES AND SWAMP FORESTS (1);

SOURCES: B68RADO1MD
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	PG Y	FR	
TA	CT	WA	
DO Y	CH Y	AL	
WI	SM	GA	
SO Y			
WO Y			

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.
(A86NACO1MD)

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-25 RAP UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYPONOWO 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, DROSERIA 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

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

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:

CE
KE
QA
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WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

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: PMCYPNOA1 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: B68RADO1MD B50FERO1MD 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:	ALL
CE	HA	MO	
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: PDSAXOTOLO

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: B68RADO1MD B50FERO1MD
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 B50FERO1MD B83HOU01MD
COMMENTS:

SEARCH IMAGE: STIPULES ENTIRE, CILIATE; LEAFLETS 5 OR MORE, NOT GLANDULAR-DOTTED BENEATH; FLOWERS SOLITARY; STIPULAR PRICKLES CURVED DOWNWARD (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: PDLYTOB030

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 HOLLOW (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:

CE
KE
QA
CN
TA
DO Y
WI
SO
WO Y

WESTERN SHORE:

HA
BA Y
AA Y
PG Y
CT
CH
SM Y

PIEDMONT-MONTANE:

MO Y
HO Y
CL Y
FR Y
WA
AL
GA

ALL

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 B68RADO1MD E83HOU01MD

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:	ALL
CE	HA	MO	
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: PDAST850HO

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: B68RADO1MD B50FERO1MD 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: B68RADO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
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CN
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DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDPGNOP050

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 THAN MATURE CALYX; FRUITING SEPAL WITH 1 GRAIN USUALLY, MARGIN NOT 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: B68RADO1MD, B50FERO1MD
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: PDGENOF070 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: B46TATO1MD B68RADO1MD B83HOUO1MD
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: B46TATO1MD B68RADO1MD
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

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:	ALL
CE	HA	MO	
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: B68RADO1MD 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: SACCOLEPIS 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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: SAGITTARIA CALYCINA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MUDFLATS, PONDS AND MARSHES (1);

SOURCES: B68RADO1MD
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. (A80FERO1MD)

LAST LIT. SEARCH: BIO PREV: ; . :

FORM FILLED: 87-03-25 RAP

UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMALIO4070 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: B68RADO1MD B50FERO1MD
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 B68RADO1MD

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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-05-01 RAP

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 B68RADO1MD

COMMENTS:

SEARCH IMAGE: FILAMENTS GLABROUS, WITHOUT SCALES; SEPAL 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 B68RADO1MD
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: PMALIO40T0

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: B68RADO1MD

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: B68RADO1MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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 B50FERO1MD 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 B50FERO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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: PDSALO20EO

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: PDSAL020MO 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: E68RAD01MD E50FER01MD
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: B68RADO1MD 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	FG	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: B68RADO1MD

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: A83SCHO1MD

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: B68RADO1MD
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: PMCYPOQ010

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
FEB A 0	APRA 0	JUNA 0	AUGA 2	OCTA 0	DECA 0
FEBB 0	APRB 0	JUNB 0	AUGB 2	OCTB 0	DECB 0

SOURCES: B68RADO1MD 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: PMCYPOQ0E0

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
MESIC
KERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SALINE TO BRACKISH MARSHES AND BRACKISH TO FRESH TIDAL
SHORES (1); BRACKISH TIDAL MARSHES AND SHORES (2,3).

SOURCES: B50FERO1MD A75SCHO1MD A75FERO1MD
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. (A75SCHO1MD) 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

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:	ALL
CE	HA	MO	
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: PMCYPOQ190

SRANK: C

PROTECTION STATUS:

NAME: SCIRPUS PURSHIANUS

TAXONOMIC COMMENT:

COMMON NAME: WEAKSTALK BULLRUSH

FAMILY: CYPERACEAE

HABIT: ANNUAL Y
BIENNIAL
PERENNIAL

HERB
SHRUB
TREE

VINE

EVERGREEN

FLOWER/FRUIT NEEDED FOR 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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

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WESTERN SHORE:

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BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; . :

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMCYP0Q1FO

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:

CE
KE
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SO
WO

WESTERN SHORE:

HA
BA Y
AA Y
PG Y
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO Y
CL Y
FR Y
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

ASSOCIATED WITH FUIRENA PUMILA. (A86NAC01MD)

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PAGE 2: SCIRPUS SUBTERMINALIS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SLUGGISH STREAMS, POOLS AND PONDS (1);

SOURCES: B68RADO1MD
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: PMCYPOROC0 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: B68RADO1MD 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 B68RADO1MD
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:

CE
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CN
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WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
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WA
AL
GA

ALL

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: B68RADO1MD B50FERO1MD
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

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: PMCYPOROKO

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: B68RADO1MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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

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

PAGE 2: SCUTELLARIA PARVULA

SOURCES:
COMMENTS:

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

SOURCES: B46TATO1MD
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
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE Y
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: SENECIO ANONYMUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
SERPENTINE BARRENS (1); MEADOWS, PASTURES, ROADSIDES, WOOD-
LAND 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: PDAIZOE030

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 B68RADO1MD

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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
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PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDCAROU120

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: B68RADO1MD B50FERO1MD
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

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: PMIRIOD040

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:

CE
KE
QA
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WESTERN SHORE:

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BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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:	ALL
CE	HA	MO	
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 CORDATE
 (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:

CE Y
KE
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WESTERN SHORE:

HA
BA
AA Y
PG Y
CT
CH Y
SM

PIEDMONT-MONTANE:

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WA
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ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-03-27 RAP

UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMSMIO10R0 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:	ALL
CE	HA	MO	
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

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:

CE
KE
QA
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WESTERN SHORE:

HA
BA
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PG
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SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDAST8POVO

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
MESIC Y
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL Y
PEAT

SERPENTINE
SHALE
LIMESTONE Y
SANDSTONE
IGNEOUS

SOURCES:
COMMENTS:

SECONDARY HABITATS:
DRY OR MOIST ROCKY PLACES, CHIEFLY CALCAREOUS (1);
WELL-DRAINED, DRY, ROCKY, OFTEN LIMESTONE GROUND OF
WATERSIDES (2).

SOURCES: B50FERO1MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:	WESTERN SHORE:	PIEDMONT-MONTANE:	ALL
CE	HA	MO	
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 B50FERO1MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PAGE 2: SOLIDAGO PUBERULA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
OPEN, SANDY SOIL (1); DRY OR PEATY STERILE SOIL, SANDS,
ROCKY BARRENS, ETC. (2).

SOURCES: B46TATO1MD 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 B68RADO1MD
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

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

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			
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COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

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

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:

CE
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WESTERN SHORE:

HA
BA
AA
PG
CT
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SM

PIEDMONT-MONTANE:

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WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

GRAIN NOT SEEN. (B68RAD01MD)

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PAGE 2: SPIRANTHES LACINIATA

SOURCES:
COMMENTS:

SECONDARY HABITATS:

CYPRESS SWAMPS, MARSHES, AND POOLS (1); BOGS, MARSHES,
SHALLOW PONDS (2).

SOURCES: B68RADO1MD B50FER01MD
COMMENTS:

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

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
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WESTERN SHORE:

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BA
AA
PG
CT
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SM

PIEDMONT-MONTANE:

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FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP

UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PMORC2BOUO

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: B68RADO1MD B50FERO1MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: PMORC2BOYO

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:	ALL
CE	HA	MO	
KE	EA	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.
(A75HENO2MD)

LAST LIT. SEARCH: BIO PREV: ; :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

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:

CE
KE
QA Y
CN
TA Y
DO
WI
SO
WO

WESTERN SHORE:

HA
BA Y
AA Y
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA Y
AL
GA

ALL

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: B68RADO1MD B50FERO1MD 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: B50FERO1MD B68RADO1MD

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

PAGE 2: STACHYS HYSSOPIFOLIA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MEADOWS AND POND MARGINS (1); MOIST MEADOWS AND MARSHES (2).

SOURCES: B46TATO1MD B68RADO1MD
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 B68RADO1MD

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 B68RADO1MD
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: PDCAROX020 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	AFRA 0	JUNA 1	AUGA 3	OCTA 3	DECA 0
FEBB 0	APRB 1	JUNB 1	AUGB 3	OCTB 3	DECB 0

SOURCES: B68RADO1MD 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: B68RADO1MD

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: B68RADO1MD B50FERO1MD
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: PDCHEOP050

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

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 HOLLOWLS, DITCHES (3).

SOURCES: B46TAT01MD B68RAD01MD B83HOU01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
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SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV:

FORM FILLED: 87-05-01 RAP

UPDATE: 87-09-09 RAP

PAGE 2: SYMPLOCOS TINGTORIA

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	AFRA 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
MESIC
XERIC Y

ACIDIC
NEUTRAL
BASIC

SAND Y
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE Y
SHALE
LIMESTONE
SANDSTONE
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	
DC	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: PDFAB3XOKO

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: B68RADO1MD

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	EA	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

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: PDRANOMOB0

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: B68RADO1MD 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

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:	ALL
CE	HA	MO	
KE	EA	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

SOURCES:
COMMENTS:

SECONDARY HABITATS:
MIXED DECIDUOUS FORESTS (1); OPEN GROUND OF MIXED DECIDUOUS
WOODS, SOMETIMES LOW MARSHES (2).

SOURCES: B68RADO1MD 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	EA 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: B50FERO1MD B83HOUC1MD
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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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	
DC	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: PMBRO090H0

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.
(A77SCHO1MD) 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: B68RADO1MD B50FERO1MD B83HOOU1MD
 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

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: B68RADO1MD B50FER01MD
COMMENTS:

PHYSIOGRAPHIC DISTRIBUTION: AP RV BR PD UC Y LC ALL

COUNTY DISTRIBUTION:

EASTERN SHORE:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA Y
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO Y
HO
CL
FR
WA
AL
GA

ALL

COMMENTS:

GENERAL COMMENTS:

LAST LIT. SEARCH: BIO PREV: ;

FORM FILLED: 87-03-27 RAP

UPDATE: 87-09-09 RAP

PAGE 2: TRIADENUM TUBULOSUM

SOURCES:
COMMENTS:

SECONDARY HABITATS:
BOGS (1); CYPRESS- AND GUM-SWAMPS (2).

SOURCES: B68RADO1MD 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: B68RADO1MD

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: SCHEUCHZERIAEAE

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: B68RADC1MD 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: B46TATO1MD B68RADO1MD 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
MESIC
XERIC Y

ACIDIC
NEUTRAL Y
BASIC Y

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

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	MAYE 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: B68RADO1MD B50FERO1MD

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	SEPE 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) (KW
 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	JUNE 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
 MESIC
 XERIC

ACIDIC
 NEUTRAL
 BASIC

SAND Y
 LOAM
 CLAY
 GRAVEL
 PEAT Y

SERPENTINE
 SHALE
 LIMESTONE
 SANDSTONE
 IGNEOUS

PAGE 2: UTRICULARIA CORNUTA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
WET SHORES (1); BOGS AND SANDY DEPRESSIONS (2).

SOURCES: B46TAT01MD B68RADO1MD
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

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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:

CE
KE
QA
CN
TA
DO
WI
SO
WO

WESTERN SHORE:

HA
BA
AA
PG
CT
CH
SM

PIEDMONT-MONTANE:

MO
HO
CL
FR
WA
AL
GA

ALL

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
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT Y

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
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: B68RADO1MD B50FERO1MD
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	JUNE 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	AFRA 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: B50FERO1MD
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

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: BIC PREV: ; . :

FORM FILLED: 87-03-27 RAP UPDATE: 87-09-04 RAP

PLANT CHARACTERIZATION ABSTRACT

ELCODE: PDVIT040JO

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: B50FERC1MD
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: B50FERO1MD
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	AFRA 0	JUNA 2	AUGA 0	OCTA 0	DECA 0
FEBB 0	APRB 0	JUNB 2	AUGB 0	OCTB 0	DECB 0

SOURCES: E83H0001MD

COMMENTS:

SEARCH IMAGE:

GENERAL HABITAT TYPE:

TIDAL WETLAND:

NON-TIDAL WETLAND: Y

UPLAND:

INDICATOR STATUS: OBL

PRIMARY HABITATS:

SOURCES:

COMMENTS:

SUBSTRATES:

HYDRIC Y
MESIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: WOLFFIA COLUMBIANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS AND SLOUGHS (1); FLOATING BENEATH THE SURFACE OF QUIET
WATERS (2).

SOURCES: B68RADO1MD 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. (B68RADO1MD)

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	MARE 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: B68RADO1MD

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
MERIC
XERIC

ACIDIC
NEUTRAL
BASIC

SAND
LOAM
CLAY
GRAVEL
PEAT

SERPENTINE
SHALE
LIMESTONE
SANDSTONE
IGNEOUS

PAGE 2: WOLFFIELLA FLORIDANA

SOURCES:
COMMENTS:

SECONDARY HABITATS:
PONDS, ROADSIDE DITCHES, STREAMS, SWAMPS AND MARSHES (1);
QUIET WATERS (2).

SOURCES: B68RADO1MD 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: B33HOU01MD
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

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

ETHEOSTOMA VITREUM
FUNDULUS LUCIAE
GRAPTEMYS GEOGRAPHICA
HALIAEETUS LEUCOCEPHALUS
LATERALLUS JAMAICENSIS
PERCINA NOTOGRAMA
PITUOPHIS MELANOLEUCUS
PORZANA CAROLINA
REITHRODONTOMYS HUMULIS
STERNA ANTILLARUM
SOREX LONGIROSTRIS

COMMON NAME

GLASSY DARTER
SPOTFIN KILLIFISH
MAP TURTLE
BALD EAGLE
BLACK RAIL
STRIPEBACK DARTER
NORTHERN PINE SNAKE
SORA
EASTERN HARVEST MOUSE
LEAST TERN
SOUTHEASTERN SHREW

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR BALTIMORE COUNTY

SCIENTIFIC NAME

COMMON NAME

BARTRAMIA LONGICAUDA
BOTAURUS LENTIGINOSUS
CIRCUS CYANEUS
EMPIDONAX ALNORUM
LATERALLUS JAMAICENSIS
STERNA ANTILLARUM

UPLAND SANDPIPER
AMERICAN BITTERN
NORTHERN HARRIER
ALDER FLYCATCHER
BLACK RAIL
LEAST TERN

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR CALVERT COUNTY

SCIENTIFIC NAME

ACIPENSER OXYRHYNCHUS
CISTOTHORUS PLATENSIS
FUNDULUS LUCIAE
GASTROPHRYNE CAROLINENSIS
HALIAEETUS LEUCOCEPHALUS
SIREN LACERTINA
SOREX LONGIROSTRIS

COMMON NAME

ATLANTIC STURGEON
SEDGE WREN
SPOTFIN KILLIFISH
EASTERN NARROWMOUTH TOAD
BALD EAGLE
GREATER SIREN
SOUTHEASTERN SHREW

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR CHARLES COUNTY

SCIENTIFIC NAME

COMMON NAME

AMBYSTOMA TIGRINUM
FARANCIA ERYTROGRAMMA
HALIAEETUS LEUCOCEPHALUS
LOPHODYTES CUCULLATUS
RANA VIRGATIPES

EASTERN TIGER SALAMANDER
RAINBOW SNAKE
BALD EAGLE
HOODED MERGANSER
CARPENTER FROG

RARE AND ENDANGERED ANIMAL SPECIES
RECORDED FOR HARFORD COUNTY

SCIENTIFIC NAME

ACIPENSER BREVIROSTRUM
ACIPENSER OXYRHYNCHUS
ETHEOSTOMA SELLARE
ETHEOSTOMA VITREUM
GRAPTEMYS GEOGRAPHICA
HALIAEETUS LEUCOCEPHALUS
PERCINA CAPRODES

COMMON NAME

SHORTNOSE STURGEON
ATLANTIC STURGEON
MARYLAND DARTER
GLASSY DARTER
MAP TURTLE
BALD EAGLE
LOGPERCH

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

SCIENTIFIC NAME

CISTOTHORUS PLATENSIS
ETHEOSTOMA VITREUM
HALIAEETUS LEUCOCEPHALUS
LOPHODYTES CUCULLATUS
PERCINA NOTOGRAMMA
REITHRODONTOMYS HUMULIS
PERCINA CAPRODES
SOREX LONGIROSTRIS

COMMON NAME

SEDGE WREN
GLASSY DARTER
BALD EAGLE
HOODED MERGANSER
STRIPEBACK DARTER
EASTERN HARVEST MOUSE
LOGPERCH
SOUTHEASTERN SHREW

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

SCIENTIFIC NAME

CENTRARCHUS MACROPTERUS
CIRCUS CYANEUS
CISTOTHORUS PLATENSIS
FUNDULUS LUCIAE
GASTROPHRYNE CAROLINENSIS
HALIAEETUS LEUCOCEPHALUS
STERNA ANTILLARUM

COMMON NAME

FLIER
NORTHERN HARRIER
SEDGE WREN
SPOTFIN KILLIFISH
EASTERN NARROWMOUTH TOAD
BALD EAGLE
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 as 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.

REPROCMM. 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.

SREPROCMM. 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 = Allegheny Plateau | BR = Blue Ridge |
| UC = Upper Coastal Plain | RV = Ridge and Valley |
| PD = Piedmont | 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 regularly occur in the county.

SRANGECOMM. In-state range comment to specify and

qualify state range, seasonal redistribution, etc.

SRANGERE. Selected state references on in-state range/distribution. Codes used by The Nature Conservancy, not available to the Natural Heritage 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.
- TIDEPPOOL - 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.
- HERBWET - Estuarine herbaceous wetland. Vegetated areas characterized by emergent herbaceous aquatic plants, excluding mosses and lichens.
- SHRUBWET - Estuarine scrub-shrub wetland. Vegetated areas dominated by woody plants less than 6 m. tall (e.g., some mangroves, marsh elder).
- FORWET - 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 outcrops, 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.

LACUSTRINE. 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 streambanks, 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

- CLIFF - of bedrock or broken rock. 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
FAMILY: ACIPENSERIDAE
TAXCOMM:

ORDER: ACIPENSERIFORMES
GENUS: ACIPENSER

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
ECOLCOMM:

MAXWEIGHT: 0

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	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE:	HARDWOOD:	SPECFACTOR:
ESTUARINE: Y	TEMPPool:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPool:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 B80LEEO1NA
STATEREF:
ADDITIONAL SOURCES:

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 85-11-21
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 meta-
 morphose in 1st or 2nd summer, or become paedomorphic.

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: AMBYSTOMA TIGRINUM

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:	LACUSTRINE: Y	TERREST:	SUBTERRAN: Y
PELAGIC:	DEEPWATER:	FOREST: Y	SUBTERREST: Y
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD: Y	SPECFACTOR:
ESTUARINE:	TEMPPool: Y	CONIFER: Y	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED: Y	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP: Y	INSOIL: Y
TIDEPool:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND: Y	
EHERBWET:	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND: Y	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN: Y	
RIFFLE:			
POOL:			

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
 SEDITION:

GUPDATE: 85-09-09
 SUPDATE:

ELCODE: ABNGA01020

IDENTIFIERS

NAME: BOTAURUS LENTIGINOSUS
COMNAME: AMERICAN BITTERN
GRANK: G4 FEDSTATUS:

STATE: SRANK: S2 STATEPROT: L

TAXONOMY

TAXCLASS: AVES
FAMILY: ARDEIDAE
TAXCOMM:

ORDER: CICONIIFORMES
GENUS: BOTAURUS

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. (B80TERO1NA, B79HAR01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0¹ MAXWEIGHT: 0
ECOLCOMM: Mostly solitary but may be in loose colonies in favorable
habitat (B79HAR01NA).

PAGE 2: BOTAURUS LENTIGINOSUS

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:

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN: Y	GRASSLAND: Y	
EHERBWET: Y	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: 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. (B80TERO1NA).

SHABCOMM:

REFERENCES

NATREF: B62PAL01NA B80TERO1NA B83COM01NA
STATREF:
ADDITIONAL SOURCES:
B79HAR01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 86-01-29
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:

REPROCMM: 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).

SREPROCMM:

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:	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPPool:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	P SHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPool:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESH RUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 B79SMIO2NA B80LEEO1NA
STATREF:
ADDITIONAL SOURCES:

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 86-01-03
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:

PAGE 2: CIRCUS CYANEUS

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:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP: Y	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN: Y	GRASSLAND: Y	
EHERBWET: Y	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE:		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND: Y	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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: B80TERO1NA B37BENO1NA B83COMO1NA
STATEREF:
ADDITIONAL SOURCES:

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 86-01-31
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:

REPROCMM: 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.

SREPROCMM:

SPECIES ECOLOGY

MAXLENGTH:

0

MAXWEIGHT:

0

ECOLCOMM:

PAGE 2: CISTOTHORUS PLATENSIS

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
Brun., 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:	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:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN: Y	GRASSLAND: Y	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE:		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND: Y	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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: B80TERO1NA B48BENO1NA B83COMO1NA
 STATeref:
 ADDITIONAL SOURCES:
 B78HAR01NA
 B79HAR01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
 SEDITION:

GUPDATE: 86-03-12
 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 invertebrates 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:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE:	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

HABCOMM: Rocky, clear streams and rivers below 2500 ft. Usually avoids water >20 C.

REPHABCOMM: Males prepare nests beneath large flat rocks or submerged logs.

SHABCOMM:

REFERENCES

NATREF: B73NIC01NA B71BAR01NA B72MIN01NA
 STATeref:
 ADDITIONAL SOURCES:
 B77JON01NA
 A71DUN01NA
 B75MOU01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
 SEDITION:

GUPDATE: 85-09-10
 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:

FEDMIGRAT: MARINEMAM: STATUS
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

NONMIGR: Y LOCALMIGR: MIGRATION DISTMIGR:
MIGRCOMM:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

CARNIVORE: FOOD HABITS HERVIVORE: NECTARVORE:
PISCIVORE: GRANIVORE:
INVERTVORE: Y FRUGIVORE:
FOODCOMM: Diet includes snails and immature aquatic insects
(B83ONOO1NA).

SFOODCOMM:

REPRODUCTION

COLBREED:
REPROCMM: Spawning period probably late April or early May
(B83ONOO1NA). Maximum life span probably less than 3 yr.
(B83PAGO1NA).

SREPROCMM:

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: 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:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE:	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPPool:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPool:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
 STATREF:
 ADDITIONAL SOURCES:
 B83ON001NA

RECORD MAINTENANCE

GEDITION: 86-04-15
 SEDITION:

GUPDATE: 86-01-13
 SUPDATE:

ELCODE: AFCQC02850

IDENTIFIERS

NAME: ETHEOSTOMA VITREUM

COMNAME: GLASSY DARTER

GRANK: G4

FEDSTATUS:

STATE:

SRANK: S1

STATEPROT: L3

TAXONOMY

TAXCLASS: OSTEICHTHYES

ORDER: PERCIFORMES

FAMILY: PERCIDAE

GENUS: ETHEOSTOMA

TAXCOMM:

SUBSPCOMM:

STATUS

FEDMIGRAT:
STATCOMM:

MARINEMAM:

GAMESPEC:
SSTATCOMM:

COMMERSPEC:

SPORTFISH:

PROTNONG:

FURBEARER:

PEST:

MIGRATION

NONMIGR:
MIGRCOMM:

LOCALMIGR:

DISTMIGR:

STBREED:
SMIGRCOMM:

STWINTER:

MIGTRANS:

IRREGAPP:

WITHINST:

FOOD HABITS

CARNIVORE:

HERVIVORE:

NECTARVORE:

PISCIVORE:

GRANIVORE:

INVERTVORE: Y

FRUGIVORE:

FOODCOMM: Feeds mostly at dawn and dusk (B83PAG01NA).

SFOODCOMM:

REPRODUCTION

COLBREED:

REPROCMM: Spawns communally in March and early April (B83KUE01NA).

SREPROCMM:

SPECIES ECOLOGY

MAXLENGTH:

0

MAXWEIGHT:

0

ECOLCOMM:

PAGE 2: ETHEOSTOMA VITREUM

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:	SAINTE MARYS:
CECIL:	SOMERSET:
CHARLES:	TALBOT:
DORCHESTER:	WASHINGTON:
FREDERICK:	WICOMICO:
GARRETT:	WORCESTER:

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE:	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
FAMILY: COLUBRIDAE
TAXCOMM:

ORDER: SQUAMATA
GENUS: FARANCIA

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSTATCOMM:

MIGRATION

NONMIGR: Y
MIGRCOMM:

LOCALMIGR:

DISTMIGR:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE: Y
PISCIVORE:
INVERTVORE:

HERVIVORE:
GRANIVORE:
FRUGIVORE:

NECTARVORE:

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
ECOLCOMM:

MAXWEIGHT: 0

PAGE 2: FARANCIA ERYTROGRAMMA

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
FAMILY: CYPRINODONTIDAE
TAXCOMM:

ORDER: ATHERINIFORMES
GENUS: FUNDULUS

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:
REPROCMM: Spawns from spring to early fall, mostly in spring.
Sexually mature 2-3 mo. after hatching. Life span probably
about 1 yr. (A78BYR01NA, A78KNE01NA).

SREPROCMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM:

PAGE 2: FUNDULUS LUCIAE

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

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE: Y	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET: Y	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE:		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
SEDITION:

GUPDATE: 85-12-26
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:

REPROCMM: 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.

SREPROCMM:

SPECIES ECOLOGY

MAXLENGTH:

0

MAXWEIGHT:

0

ECOLCOMM:

SECOLCOMM:

PHENOLOGY/SEASONALITY

HIBAEST: Y CIRCADIAN: DIURNAL: NOCTURNAL: Y CREPUSCULR:
PHENCOMM: Most active at night during 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

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE: Y	TERREST:	SUBTERRAN: Y
PELAGIC:	DEEPWATER:	FOREST: Y	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD: Y	SPECFACTOR:
ESTUARINE:	TEMPOOL: Y	CONIFER: Y	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED: Y	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL: Y
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND: Y	
HERBWET:	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTEFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND: Y	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
STATREF:
ADDITIONAL SOURCES:
B79BEH01NA
B75CON01NA
A72NEL01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 85-09-30
SUPDATE:

ELCODE: ARAAD05040

IDENTIFIERS

NAME: GRAPTEMYS GEOGRAPHICA

COMNAME: MAP TURTLE

GRANK: G5

FEDSTATUS:

STATE:

SRANK: S1

STATEPROT: LI

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 B72ERNO1NA).

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:	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPPool:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPool:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 (B72MINO1NA).

REPHABCOMM: Eggs laid in soft soil or sand, generally away from beaches (B72ERN01).

SHABCOMM:

REFERENCES

NATREF: B72ERNO1NA B81VOG01NA B72MINO1NA
 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: LEFT 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 (B80TERO1NA).

SFOODCOMM:

REPRODUCTION

COLBREED:

REPROCMM: 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.

SREPROCMM:

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

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE: Y	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE: Y	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSTRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE: Y	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF: Y	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 (B80TERO1NA).

SFOODCOMM:

REPRODUCTION

COLBREED:

REPROCMM: 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.

SREPROCMM:

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:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET: Y	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE:		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 of Salicornia, sometimes on damp ground but usually on mat of previous year's dead grasses (B80TERO1NA).

SHABCOMM:

REFERENCES

NATREF: B80TERO1NA B26BENO1NA B83COMO1NA
STATREF:
ADDITIONAL SOURCES:
B78HARO1NA
B79HARO1NA
B83NATO1NA

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 86-03-21
SUPDATE: 86-10-29

ELCODE: ABNJB20010

IDENTIFIERS

NAME: LOPHODYTES CUCULLATUS
COMNAME: HOODED MERGANSER
GRANK: G5 FEDSTATUS:

STATE: SRANK: S1S2 STATEPROT:
TAXONOMY

TAXCLASS: AVES
FAMILY: ANATIDAE
TAXCOMM:

ORDER: ANSERIFORMES
GENUS: LOPHODYTES

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 migration 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
ECOLCOMM:

MAXWEIGHT: 0

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	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST: Y	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD: Y	SPECFACTOR:
ESTUARINE: Y	TEMPOOL:	CONIFER: Y	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED: Y	LOGDEBRIS:
RIVERMOUTH:	P SHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN: Y	GRASSLAND:	
HERBWET: Y	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
SEDITION:

GUPDATE: 86-01-30
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 (B80LEEO1NA).

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, B83BECO1NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH:

0

MAXWEIGHT:

0

ECOLCOMM:

PAGE 2: PERCINA CAPRODES

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:	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 (B83PAGO1NA).

SHABCOMM:

REFERENCES

NATREF: B83PAGO1NA B83KUE01NA B83BECO1NA
STATEREF:
ADDITIONAL SOURCES:
B80LEE01NA
B73SCO01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
SEDITION:

GUPDATE: 86-01-15
SUPDATE:

ELCODE: AFCQC04170

IDENTIFIERS

NAME: PERCINA NOTOGRAMA
COMNAME: STRIPEBACK DARTER
GRANK: G4 FEDSTATUS:
TAXCLASS: OSTEICHTHYES
FAMILY: PERCIDAE
TAXCOMM:

STATE: SRANK: SH STATEPROT: L
TAXONOMY
ORDER: PERCIFORMES
GENUS: PERCINA

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
ECOLCOMM: MAXWEIGHT: 0

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:

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE:	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
 SEDITION:

GUPDATE: 86-01-16
 SUPDATE:

ELCODE: ARADB26010

IDENTIFIERS

NAME: PITUOPHIS MELANOLEUCUS
COMNAME: NORTHERN PINE SNAKE
GRANK: G5 FEDSTATUS:

STATE: SRANK: SU STATEPROT:
TAXONOMY

TAKCLASS: REPTILIA
FAMILY: COLUBRIDAE
TAKCOMM:

ORDER: SQUAMATA
GENUS: PITUOPHIS

SUBSPCOMM:

STATUS

FEDMIGRAT: MARINEMAM:
STATCOMM:

GAMESPEC: COMMERSPEC: SPORTFISH: PROTNONG: FURBEARER: PEST:
SSATCOMM:

MIGRATION

NONMIGR: Y LOCALMIGR: Y DISTMIGR:
MIGRCOMM: Migrated average of about 500 m between winter den and
summer range in Utah (B8OPAR01NA).

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CAFNIVORE: 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:
REFROCOMM: Lays 1-2 clutches of 2-24 eggs, June-August (B85STE01NA).
Eggs hatch in 50-79 days (B79BEH01NA, B8OPAR01NA).
In Utah, males sexually mature in 1-2 yr., females in 3-5
yr. (B8OPAR01NA).

SREPROCOMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Home range estimated at 1-2 ha in Utah (B8OPAR01NA).
Population density estimated at 0.3-1.3/ha in Utah and
Idaho (B8OPAR01NA, 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:	LACUSTRINE:	TERREST:	SUBTERRAN: Y
PELAGIC:	DEEPWATER:	FOREST: Y	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD: Y	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER: Y	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED: Y	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP: Y	INSOIL: Y
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND: Y	
EHERBWET:	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE:		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK: Y	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND: Y	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN: Y	
RIFFLE:			
POOL:			

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: B85STEO1NA B79BEH01NA B70FIT01NA
 STATEREF:
 ADDITIONAL SOURCES:
 B80PAR01NA
 B83NUS01NA
 B84TEN01NA
 B75MOU01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
 SEDITION:

GUPDATE: 85-11-08
 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 (B80TERO1NA).

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:	TEMPPPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	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: B80TERO1NA B26BENO1NA B79HARO1NA
 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
FAMILY: RANIDAE
TAXCOMM:

ORDER: SALIENTIA
GENUS: RANA

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:
REPROCMM: Lays clusters of 200-600 eggs , April to August. Eggs hatch in 1-2 weeks. Aquatic larval stage lasts about 1 year.

SREPROCMM:

SPECIES ECOLOGY

MAXLENGTH: 0 MAXWEIGHT: 0
ECOLCOMM: Often found in smae habitats as Hyla andersonii.

PAGE 2: RANA VIRGATIPES

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:	SAINTE MARYS:
CECIL:	SOMERSET:
CHARLES: Y	TALBOT: Y
DORCHESTER: Y	WASHINGTON:
FREDERICK:	WICOMICO: Y
GARRETT:	WORCESTER: Y

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN: Y	GRASSLAND:	
EHERBWET:	RIPARIAN: Y	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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 part 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
SEDITION:

GUPDATE: 85-10-03
SUPDATE:

ELCODE: AMAFF02020

IDENTIFIERS

NAME: REITHRODONTOMYS HUMULIS
COMNAME: EASTERN HARVEST MOUSE
GRANK: G5 FEDSTATUS:

STATE: SRANK: SU STATEPROT:
TAXONOMY

TAXCLASS: MAMMALIA
FAMILY: CRICETIDAE
TAXCOMM:

ORDER: RODENTIA
GENUS: REITHRODONTOMYS

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
MIGRCOMM:

LOCALMIGR:

DISTMIGR:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE:
PISCIVORE:
INVERTVORE:

HERVIVORE:
GRANIVORE: Y
FRUGIVORE:

NECTARVORE:

FOODCOMM: Prefers seeds of weeds and grasses.

SFOODCOMM:

REPRODUCTION

COLBREED:

REPROCMM: Nearly breeds year round, esp. spring. Gestation: 21-22 days
2-7 (ave. 4) young. Sexually mature in 2-4 mos.

SREPROCMM:

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:

SRANGECOMM:

SRANGEREF:

HABITAT

MARINE:	LACUSTRINE:	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERRREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND: Y	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE:		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
 STATREF:
 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
FAMILY: SIRENIDAE
TAXCOMM:

ORDER: CAUDATA
GENUS: SIREN

SUBSPCOMM:

STATUS

FEDMIGRAT:
STATCOMM:

MARINEMAM:

GAMESPEC:
SSTATCOMM:

COMMERSPEC:

SPORTFISH:

PROTNONG:

FURBEARER:

PEST:

MIGRATION

NONMIGR: Y
MIGRCOMM:

LOCALMIGR:

DISTMIGR:

STBREED:
SMIGRCOMM:

STWINTER:

MIGTRANS:

IRREGAPP:

WITHINST:

FOOD HABITS

CARNIVORE:
PISCIVORE:
INVERTVORE: Y

HERVIVORE: Y
GRANIVORE:
FRUGIVORE:

NECTARVORE:

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
ECOLCOMM:

MAXWEIGHT: 0

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:	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD:	SPECFACTOR:
ESTUARINE:	TEMPOOL: Y	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN:	GRASSLAND:	
EHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND:	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
 STATREF:
 ADDITIONAL SOURCES:
 B80MAR01NA

RECORD MAINTENANCE

GEDITION: 86-04-15
 SEDITION:

GUPDATE: 85-09-19
 SUPDATE:

ELCODE: AMABA01060

IDENTIFIERS

NAME: SOREX LONGIROSTRIS
COMNAME: SOUTHEASTERN SHREW
GRANK: G5 FEDSTATUS:

STATE: SRANK: SU STATEPROT: L

TAXCLASS: MAMMALIA
FAMILY: SORICIDAE
TAXCOMM:

TAXONOMY

ORDER: INSECTIVORA
GENUS: SOREX

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
MIGRCOMM:

LOCALMIGR:

DISTMIGR:

STBREED: STWINTER: MIGTRANS: IRREGAPP: WITHINST:
SMIGRCOMM:

FOOD HABITS

CARNIVORE:

HERVIVORE:

NECTARVORE:

PISCIVORE:

GRANIVORE:

INVERTVORE: Y

FRUGIVORE:

FOODCOMM: Small invertebrates, particularly spiders.

SFOODCOMM:

REPRODUCTION

COLBREED:

REPROCMM: 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.

SREPROCMM:

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)

PAGE 2: SOREX LONGIROSTRIS

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:	LACUSTRINE:	TERREST:	SUBTERRAN: Y
PELAGIC:	DEEPWATER:	FOREST: Y	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE: Y	HARDWOOD: Y	SPECFACTOR:
ESTUARINE:	TEMPPPOOL:	CONIFER: Y	SNAGHOLLOW:
BAYSOUND:	PHERBWET: Y	MIXED: Y	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP: Y	INSOIL: Y
TIDEPPOOL:	PFORWET: Y	SAVANNAH:	BENTHIC:
TIDESHORE:	BOGFEN: Y	GRASSLAND: Y	
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: 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:
SSTATCOMM:

COMMERSPEC:

SPORTFISH:

PROTNONG:

FURBEARER:

PEST:

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

REPROCMM: 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.

SREPROCMM:

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	LACUSTRINE: Y	TERREST:	SUBTERRAN:
PELAGIC:	DEEPWATER:	FOREST:	SUBTERREST:
ABYSSAL:	SHALLWATER:	WOODLAND:	SUBAQUATIC:
NEARSHORE:	PALUSTRINE:	HARDWOOD:	SPECFACTOR:
ESTUARINE: Y	TEMPPOOL:	CONIFER:	SNAGHOLLOW:
BAYSOUND:	PHERBWET:	MIXED:	LOGDEBRIS:
RIVERMOUTH:	PSHRUBWET:	SHRUBCHAP:	INSOIL:
TIDEPPOOL:	PFORWET:	SAVANNAH:	BENTHIC:
TIDESHORE: Y	BOGFEN:	GRASSLAND:	
EHHERBWET:	RIPARIAN:	DESERT:	
ESHRUBWET:		ALPINE:	
EFORWET:		TUNDRA:	
RIVERINE: Y		ICE:	
BIGRIVER:		SALTFLAT:	
MEDRIVER:		SAND: Y	
CREEK:		BAREROCK:	
SPRNGBROOK:		CLIFF:	
HIGHGRAD:		CROPLAND:	
MEDIUMGRAD:		SUBURBAN:	
LOWGRAD:		URBAN:	
RIFFLE:			
POOL:			

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
SEDITION:

GUPDATE: 86-02-06
SUPDATE:

SECTION IV

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