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APPENDIX IV

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COMPREHENSIVE OCEAN
AREA PLAN

AGRICULTURE IN THE COASTAL ZONE

This appendix has been prepared as a contribution to the California Comprehensive Ocean Area Plan (COAP).

The subject matter herein has been developed following discussions with COAP staff, however the content remains the responsibility of the contributing agency.

DEPARTMENT OF NAVIGATION AND OCEAN DEVELOPMENT

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AGRICULTURE IN THE COASTAL ZONE

PART 1

AGRICULTURE IN THE COASTAL ZONE — by Douglas Barbe, Ph.D.

PART 2

PESTICIDES IN THE COASTAL ZONE — by Gordon F. Snow, Ph.D.

a. Pesticides Use Data

b. Map Supplement

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PART 1

Apples, almonds, peaches, cherries, pomegranates, pears, quinces, plums, figs, oranges, lemons, limes, citron, dates, plantains, walnuts, strawberries and raspberries were also grown in mission gardens. All but grapes and figs were started from seeds, but even at Santa Clara, some grape vines were started from seed brought from Spain.

Russian Agriculture (1812-1841) -- The first truly coastal agriculture in California was at the Russian-American Company settlement of Fort Ross on the Sonoma County coast. The Russians, with permission from the Spanish, occupied Bodega in March, 1812. They built Fort Ross "12 leagues" north of Bodega in 1814. Although the fort was intended to be a base for trade with the Spanish, agriculture was important to the settlement for its own subsistence as well as for the support of Russian activities in Alaska.

Agriculture at the fort itself was confined to 70 acres on the coastal bench. A one-hundred-acre livestock ranch was established just south of the Russian River, and a two-thousand-vine vineyard was planted in Russian Gulch, north of Bodega Bay. The total area under cultivation never exceeded three-hundred acres.

Fort Ross exported butter, leather, dried salt beef, potatoes, wheat and other cereals, fruits, and tobacco to Sitka and Kodiak. Native tan oak bark was used to tan the leather, and tar for naval stores was extracted from native Douglas fir. Butter was also exported to the presidios at San Francisco and Monterey.

Iron workers among the Russians made iron plows, which were a step above the wooden plows used by the missions. The Russians also made a windmill for

I. BACKGROUND AND OVERVIEW

HISTORY OF COASTLINE AGRICULTURE

Pre-mission period -- Aboriginal agriculture in California existed in only two places: on the western shores of the Colorado River, where Yuma Indians cultivated maize, beans and melons; and in Northern California, where Hoopa Indians cultivated a species of native tobacco. Otherwise, the native people of California were hunters and gatherers whose principal staple was acorn meal with other seeds, roots, berries, fruits, insects, deer, elk, mountain goats, wolves, coyotes, foxes, hares, squirrels, fish, quail, partridges and other products of the bountiful land included in their diets.

Mission Period (1769-1833) -- California's modern multi-million dollar agricultural industry was born in the Spanish missions of California. The Jesuits brought agriculture to San Francisco Xavier in Baja California in 1697. From there, the Franciscans brought the first livestock, seeds, and cuttings to San Diego in 1769. Knowledge of the Jesuit's agriculture under Baja California's semi-arid conditions helped the Franciscans to successfully cultivate their own mission orchards, vineyards and gardens.

Irrigation was and is essential in a semi-arid climate, but even the simple works and crude methods developed by the California missions were remarkably efficient, to the point of enabling the missions to produce a wide variety of grains, vegetables and fruits. While the total area under cultivation for all the missions never exceeded ten thousand acres, the total garden area for the twenty-one missions was about 700 acres. The largest and most productive garden was at Mission San Gabriel, 190 acres; the smallest at San Rafael, 7 acres. Olives and grapes were common at missions from the beginning.

grinding flour, but even though Fort Ross was technologically and economically far ahead of any other settlement in California, it was the first to pass into obscurity. The farming operation failed mainly because of the lack of trained farmers. The Russians were mainly preoccupied with hunting seal and sea otter, and only about twelve men who were considered "the worst of the worst" were assigned to work part-time at agriculture. The relatively poor quality of the land and the unfavorable climate near the ocean were further strikes against the enterprise. The Russians' best crop of wheat returned 11:1 in contrast to the Spanish missionaries who, despite their inferior technology, commonly harvested returns of 40:1. (Wheat suffered severely from rust disease in the cool, foggy summers.) Russian fruits and vegetables did better than their field crops, but gophers and other rodents destroyed large quantities of potatoes and other stored products.

Fort Ross was vacated by the Russians after twenty-nine years. They sold it to John Sutter in 1841 for $30,000 in wheat and produce and sailed away in January, 1842.

Mexican Period (1833-1849) -- Cultivation of the land almost disappeared after secularization of the missions in 1834, and the Mexican period is characterized as the great rancho and cattle-grazing period. Some grape-growing persisted under Mexican rule, but, in general, agriculture languished throughout California until after the Gold Rush.

During this period, the southern coastal plain was found by several Americans to be ideal for citrus, deciduous fruit, vineyards, and wine-making. Around Los Angeles, for instance, a French immigrant, Jean Vignes, started a vineyard

in 1834 from cuttings brought from France. He also started an orange grove, although William Wolfskill started the first profitable citrus grove (lemons and oranges) at Los Angeles about ten years later. Both vines and citrus were to become major elements of coastal agriculture in California during the American period.

American Period (1849-1900) -- The cattle ranching of the Mexican period gave way to crop production under the impact of a 310 percent increase in population between 1850 and 1860. From the early 1860's to 1893, wheat was California's largest and most profitable commodity even in the coastal areas. It began to decline in the late 1880's as irrigation began to make other crops more profitable. Expanded irrigation systems changed California from a predominantly extensive grain culture to the highly productive intensive and diversified agriculture of today.

Twentieth Century -- The urbanization of Southern California and the San Francisco Bay area since the 1940's has removed from production much prime agricultural land in the coastal area and has increased pressure to urbanize the remaining arable coastal lands. Under this influence, coastal agriculture is steadily developing toward ever more intensive, high value crop production requiring much capital, irrigation and labor, such as floriculture, olericulture and small fruit culture.

Affluence and more leisure for people in general, have also generated pressures to transform agricultural areas into recreational/residential uses along the coast at ever greater distances from the urban centers. Changing life-styles have brought a desire to own a piece of the natural

amenity offered by the coast, and current development patterns cater to the market for retirement or summer homes in pastoral coast settings.

The future of coastline agriculture will undoubtedly depend upon the actions taken today at various levels of government to meet the conflicting and competing needs for coastal resources. In the past the very complexity of agriculture in the coastal area--it is not a single industry or one composed of a few large companies, but a composite of many products, operators, and marketing forms--has tended to inhibit government in developing a comprehensive agricultural policy in relation to the overall management of resources; not just the physical resources of land and water, but the economic and social resources of the area as well. Many important values would be lost to the general population if governmental action overlooked the place of agriculture in the total coastal environment.

GENERAL SETTING -- CLIMATE

Coastal Climates -- The climate along the coast is generally moist and mild. Eureka and Crescent City in the north are in a cool, high rainfall area, while the southern coast, below Point Conception in western Santa Barbara County, is a warm, low rainfall area. California coastal climates are highly suited to intensive agriculture and enable growers to produce tender vegetables, fruits, and berries of exceptionally fine quality for fresh market or processing. The specific climate of any one locality along the coast is determined by local topography, but in general, there are four main climate types in the coastal area. (See maps, Appendix 1.)

1. Northern coastal marine influence -- This climate occurs from the Oregon

border south to Point Conception and features cool, wet winters, and cool summers with frequent fog or wind from the ocean. On most days and in most places, the fog moves onshore and interposes a cooling and humidifying blanket which reduces the intensity of light and the percentage of possible sunshine. Unless local topographic features give shelter from strong, prevailing winds, the area immediately along the shoreline is too windy and too much subject to salt spray for any except the hardiest, most tolerant crops.

The lowest winter temperatures in a ten-year period may range from 36° to 24° F. The lowest recorded temperatures range from 20° to 30° F. The normal high temperatures in summer range from 60° to 75° F, and the average highest temperature on record for twelve stations in this climatic zone is 97° F.

2. Northern Coastal Thermal Belts -- Behind the beaches and seacliffs and in river valleys of the northern coast, local topography may reduce the fog cover, moderate the winds, and raise summer heat enough to create thermal belts in which intensive agriculture can flourish. These belts of good agricultural climate exist in patches and strips along the coast from Marin County to Point Conception. Some locations in these belts rarely freeze and two crops can be raised each year. A typical range of winter low temperatures is 32° to 24° F. The lowest recorded temperatures range from 25° to 18° F. The highest average temperature in this climate is 101° F.

3. Southern Coastal Marine Influence -- This climate, milder than the northern coastal influence climate is an excellent agricultural climate. It occurs

south of Point Conception, where the ocean is relatively warm. Winters are mild, summers are cool, and often limited in sunshine by daily high fogs, and the air is usually humid. Crops in areas close to the mouths of canyons may suffer chilling injury in winter when cold air drains down the canyons at night. The range of winter low temperatures is thus broader than might be expected. In a ten-year period, lows have ranged from 33° to 20° F, but some stations have never recorded a freezing temperature. The average high temperature for this climate is 105° F. Three crops can be raised each year in this area.

4. Southern Coastal Thermal Belts -- This is one of the most favored climates for agriculture. It could be called the "avocado belt" because it has always been the best climate for growing that crop, which requires warm winter temperatures, cool spring and summer temperatures, and high relative humidity during the blooming and setting period in the spring. This climate is under marine influence 85 percent of the time; only 15 percent of the time under the dry interior influence. Over a ten-year period, low temperatures have ranged from 32° to 23° F, but these lows are of short duration and frost protection measures are practicable. Throughout most of this climate, however, frosts rarely occur. The average high temperature for this climate is 111° F.

Coastal Soils - One of the most useful schemes for grouping agricultural soils is the Land Capability Classification of the Soil Conservation Service. All soils are placed in eight capability classes according to their capacity for supporting crop production without deteriorating. Soils in the first four classes are capable of producing most crops under good management. Soils of Class I are deep, level soils with adequate water and have few, if any, limitations that restrict their use for crops. Soils of Class II are suitable for most crops and have few special management needs, but they have minor limitations that may narrow their suitability for certain crops. Soils in Classes I and II are considered "prime" under the California Land Conservation Act of 1965 (Government Code Section 51200, et seq.).

Class III soils are suited to fewer or to special crops and require special management. Class IV soils, if used for crops at all, require careful management to prevent deterioration. Classes V and VI soils generally are not suited to cultivation, but a few may be capable of producing specialized crops, such as grapes and apples, and even field and vegetable crops under highly intensive management involving elaborate soil and water conservation practices.

The current trend in coastal land use unfortunately forces agriculture onto the Class IV, V and VI soils, whereas a more rational use of land resources should do the opposite, viz., force urbanization onto the poorer agricultural soils.

Class I, II, and III agricultural soils in the coastal area fall into two general categories: valley land and terrace land. (See maps, Appendix 1.)

Valley Land - Two types of valley soils occur along the coast, depending upon the amount of rainfall they receive. The first type is deep alluvial sand and flood plain soils, high in organic matter and of slightly acid reaction, occupying the river valleys in the higher rainfall areas of the northern coast. Soils of this type are in the Ferndale, Soquel, Corralitos, Farralone, Julian, and Mottsville series. These soils originally produced some of the state's best stands of redwood in Humboldt, Mendocino, Sonoma, San Mateo, and Santa Cruz Counties. Cleared areas of these soils have produced high yields of intensive specialty crops such as bushberries, strawberries, vegetables, cut flowers, and bulbs.

The second type of valley soil is the deep alluvial sand and flood plain soils occupying river valleys in the intermediate rainfall areas from Monterey County south to San Diego County. These represent the most important agricultural soils in California and are highly valued for irrigated vegetable crops, citrus, avocados, and other intensive specialty crops. Soils of this type are in the Sorrento, Metz, Moreno, and Salinas series which occur in the Salinas, Santa Ynez, and Santa Maria Valleys and in coastal valleys of Southern California. They occur where rainfall is too low for timber production.

Terrace Land - Two types of terrace soil also occur depending upon the climate. Narrow benches of dark, slightly acid soils border the coast

from Del Norte County to San Luis Obispo County where winter rainfall is between 15 and 40 inches and summers are cool and dry. These soils are termed "prairie" soils because of the vegetation and other characteristics normally associated with prairie soils around the world. Soils of this type are in the Rhonerville, Arguello, and Lockewood series, occuring largely in Del Norte, Mendocino, San Mateo, and Santa Cruz Counties. These soils have a high potential for grazing land and for specialty crops that thrive close to the ocean, such as cole crops and artichokes.

The combination of mild winters, summer fog, and deep soils found in the lower marine terraces of San Mateo and Santa Cruz Counties and in the board Salinas River Valley in Monterey County provide ideal conditions for the cultivation of high value crops such as Brussels sprouts, artichokes, and cut flowers. In San Mateo County, owing to the unique combination of climate and soil, Brussels sprouts can only be grown commercially in a coastal strip averaging 1-1/4 miles wide. But within this narrow zone, about 50 percent of the state's and 40 percent of the nation's supply of Brussels sprouts is now produced. Other less demanding crops on these soils are generally limited to below the 500 foot elevation because of the higher irrigation costs and erosion that occurs on the steeper slopes above 500 feet.

Terrace soils in the intermediate rainfall zone (10 to 20 inches) along the southern coast from San Luis Obispo southward are also ideal for intensive specialty crop production. Irrigation is required, however, to obtain good sustained yields.

OUTLOOK FOR COASTAL AGRICULTURE

From an acreage standpoint, agricultural land in the coastal area is a relatively small part of the total cropland in the state, and its loss would not subtract much from the total acres of prime land available for agriculture. Qualitatively, however, the location of these acres of deep alluvial and terrace soils in relation to moderating marine influences make them a unique and limited state and national resource for a specialized crop agriculture. Grazing land also contributes substantially to the enhancement of coastal open space.

Agriculture along the coast has been considerably reduced over the past two decades as urban development has proceeded. Urban uses not only compete with agriculture for the same flatlands, but urbanization affects the remaining agriculture in a variety of ways. For example, the cost of production, the intensity of cultivation, and the choice of commodities produced are influenced by urbanization, through an increased tax burden, crop injurious air pollution, and pressures from nearby non-agricultural residents.

Urban encroachment, with its associated air pollution and pressures from people seeking recreation along the coast, has already displaced certain sensitive crops to other areas. Some things, however, that can't be produced inland, such as artichokes and Brussels sprouts, will probably disappear if coastal agricultural soils are not preserved.

Projections of the amount of additional acreage needed in 2000 to produce the variety of market vegetables now grown in the coastal area, even after taking into account anticipated changes in consumer tastes and increases in yield resulting from technological advances, are on the order

of 60 percent (for celery) to 80 percent (for cauliflower). This means, for example, that while California now produces 88 percent of the nation's Brussels sprouts on 5,228 acres in the coastal area, by 2000 we will need 3,607 additional acres (69 percent) to meet the projected demand (Dean, G. W., et al. 1970). The climate and soils of coastal San Mateo and Santa Cruz Counties are especially suited to the production of Brussels sprouts, and removal of these areas from cultivation would seriously diminish the supply of suitable growing areas for the crop. Although there are potential growing areas along the northern coast for many of the cold-climate crops now grown in the central coast area, even they are subject to subdivision.

The outlook for coastal agriculture can be considered bright only if positive measures can be taken to preserve the sine qua non, prime agricultural soil/climate combinations. Efforts have been made in recent years to preserve the most productive agricultural land. The Williamson Act (California Land Conservation Act of 1965. Govt. Code Sect. 51200 et seq.) attempts to preserve land for agriculture by relieving the landowner of an increasingly heavy tax burden. As the matter now stands, however, this approach has not been effective in preserving many of the most agriculturally valuable soils. While many agricultural landowners have put land into preserves under the Act, less than 25 percent of the preserves are on prime agricultural soils (Wood, 1971). This is probably because the best agricultural land is usually surrounding cities, in the path of imminent urbanization, and farmers, by the nature of our economic system, must be speculators before they are farmers.

Agriculture is a vital process that can be carried on indefinitely into the future if the land resources are carefully husbanded. Arable land,

particularly and especially the remaining large units of prime agricultural soils in the coastal area, should be regarded as a natural resource to be preserved in perpetuity for future food production needs, regardless of immediate short-term economic considerations. By the year 2000, according to some current estimates, additional food will be needed at any price, and the prime soils on which to produce that food must be preserved now.

II. PRESENT SITUATION: COUNTY INVENTORY PROFILES

County profiles are arranged in geographical order from north to south. San Francisco and Los Angeles Counties are omitted from this inventory because they lack significant coastal agriculture.

For the purposes of the Chapter, the Coastal Zone is defined by a line five statute miles inland from the shore.

TABLE 1. SUMMARY OF COASTAL AGRICULTURE, 1969
Compiled from data 1/ collected by the
California Crop and Livestock Reporting Service

	Coastal Acres as % of State Total	Coastal Value as % of State Total
Artichokes 2/	100.00	100.00
Asparagus	5.01	7.11
Beans, Green lima	53.41	65.26
Beans, Snap	27.00	44.53 3/
Broccoli 2/	98.14	98.47
Brussels Sprouts 2/	100.00	100.00
Cabbage 2/	67.67	73.70
Carrots	30.43	38.89
Cauliflower	79.16	83.01
Celery 2/	99.05	99.63
Cucumbers	17.35	31.05 3/
Lettuce	49.99	49.27
Onion, green	35.23	50.78
Peas, green	22.51	31.32
Pepper, bell	22.77	21.99
Potatoes	12.85	15.53
Spinach	65.98	77.81
Tomatoes (all)	11.08	36.21 3/
Apples (all) 2/	90.03	86.97
Avocados 2/	97.62	99.07
Grapefruit	9.15	18.41 3/
Lemons (all) 2/	79.94	88.99
Oranges (all)	27.43	19.55
Strawberries 2/	87.82	91.72
Pasture, Irrig.	5.27	5.97
Pasture, other	16.87	15.15

1/ "Coastal" data are for the entire coastal county, but many of these crops are grown only in the marine-influence climate zone of the coast. See Appendix 5 for complete data.

2/ 2/3 or more of the state's acreage of these crops is in the coastal counties.

3/ Coastal location gives value advantage to these crops.

TABLE 2. TEN-YEAR CHANGES IN CROPLAND ACREAGE IN THE COASTAL COUNTIES 1958 - 1967

	Total Cropland 1/ Acres		10-Year Change		Prime 2/ Acres 1967			Prime as % of Total 1967 Cropland
	1958	1967	Acres	% Change	Class I	Class II	Total	
Del Norte	8,253	5,106	-3,147	-38.2	0	4,847	4,847	95.0
Humboldt	88,519	70,220	-18,299	-20.7	8,377	28,336	36,713	51.3
Mendocino	95,425	33,018	-62,407	-65.5	1,200	21,742	22,942	69.4
Sonoma	121,000	79,800	-41,200	-34.1	2,867	33,277	36,144	45.3
Marin	9,900	3,658	-6,242	-63.0	0	1,748	1,780	47.8
San Mateo	32,000	19,483	-12,517	-39.1	800	1,652	2,452	12.6
Santa Cruz	31,784	27,180	-4,604	-14.5	5,500	6,115	11,615	42.6
Monterey	326,169	361,427	+35,258	+10.8	59,400	128,071	187,471	52.0
San Luis Obispo	494,700	449,517	-45,183	-9.1	18,203	59,421	77,624	17.2
Santa Barbara	148,000	132,000	-16,000	-10.8	32,235	57,908	90,143	68.2
Ventura	141,000	220,075	+79,075	+56.1	24,307	109,453	133,760	60.8
Los Angeles	193,000	156,200	-36,800	-19.1	1,109	50,183	51,292	32.8
Orange	130,453	73,916	-56,537	-43.3	39,493	23,078	62,571	84.8
San Diego	180,639	208,770	+28,131	+15.6	0	21,619	21,619	12.0
		Net Loss	160,472					

Source: U. S. Soil Conservation Service, 1970

1/ Cropland includes irrigated and dry land in row crops, field crops, rotation, hayland, orchards, vineyards, bush fruits, or idle.

2/ Prime land is land in capability Class I and Class II.

TABLE 3. URBANIZATION OF PRIME AGRICULTURAL SOILS IN COASTAL COUNTIES - 1967-1980

County	Total Acres of Cropland 1/ on Prime Soils 1967	Projected Acres of Prime 2/ Soils to be Added to Urban Use 3/ 1967-1980	Projected Acres of Prime Soil Remaining in 1980	% of 1967 Prime Soils Added to Urban Use by 1980
Del Norte	4,847	0	4,847	0.0
Humboldt	36,713	230	36,483	0.6
Mendocino	22,942	5,492	17,450	23.9
Sonoma	36,144	9,800	26,344	27.1
Marin	1,780	1,780	0	100.0
San Mateo	2,452	993	1,459	40.4
Santa Cruz	11,615	2,116	9,499	18.2
Monterey	187,471	15,500	171,971	8.2
San Luis Obispo	77,624	841	6,921	1.0
Santa Barbara	90,143	3,850	86,293	4.2
Ventura	133,760	17,024	116,736	12.7
Los Angeles	62,333	4/	4/	4/
Orange	62,571	14,050	48,521	22.4
San Diego	21,619	2,000	19,619	9.2

Source: U. S. Soil Conservation Service, 1970.

1/ Cropland means all land in tillage, rotation, orchards, or bush fruit, and cropland that has been idle for more than three years and is not being converted to other uses. It does not include pasture or other land such as farmsteads, feed lots, roads, ditch banks, fence and hedge rows, etc.

2/ Prime soils are those in land capability Class I or Class II.

3/ Urban use includes cities, villages, other built-up areas of more than 10 acres, roads, railroad yards and industrial sites; cemeteries, airports, golf courses, shooting ranges, and similar areas.

4/ Data incomplete.

DEL NORTE COUNTY

Del Norte County is mountainous except for a narrow, coastal plain extending from the Smith River south to Crescent City. Eight-tenths percent (5,106 acres) of the county's total 641,921 acres was crop land in 1967. Ninety-five percent of the crop land (4,847 acres) is considered prime (capability Class II). All of the county's agricultural land is coastal.

Ninety-five percent of the county's population is located within a ten-mile wide strip along the ocean, and about half of the population lives in the Crescent City area. Projections of population in the county are:

1970 - 16,600	1990 - 23,000
1975 - 17,600	2000 - 26,400
1980 - 18,900	2020 - 32,000

The Klamath River, originating in Oregon and emptying into the ocean near the town of Klamath, provides irrigation water for farms in the lower river area. The Smith River, predominately within the borders of the county, empties into the ocean north of Crescent City near the town of Smith River. The Smith River flood plain and adjacent terrace lands are the principal agricultural areas of the county. These are primarily devoted to dairy, beef, and flower bulb production which are the major elements of the county's agriculture. In 1969, agriculture produced $4,255,200 in income. Easter lily bulbs and livestock and dairy products were the major income producers ($1,434,000 and $1,718,400, respectively). Although timber is the major employer, agriculture is a significant one.

About 3,500 acres of irrigated pasture in the Smith River plain produce feed for 13,300 head of livestock. All irrigation is by portable sprinkler systems. Water for irrigation, pumped from the river or from shallow wells, is plentiful and of excellent quality.

Most Easter lily production (about 300 acres) is on Rowdy soil which requires generous fertilization and liming. Several irrigations are needed during the summer. Easter lily bulbs provide the highest income per acre ($4,750) of any crop in the county. Daffodils are also grown for the cut flower markets and are harvested in February and March.

Greenhouse agriculture is presently expanding. The climate is ideal for growing azaleas in greenhouses, and other greenhouse crops, such as orchids and tomatoes, are also suited and being grown in a limited way. Most cool season vegetables and nearly all types of berries do well in Del Norte, but long distances to urban markets discourage growers at the present time. Many specialty crops, such as nursery stock, beets, carrots, cole crops, artichokes, and strawberries, could be grown commercially in Del Norte if urban pressures should close out production of these crops in the central and southern coastal areas.

Del Norte Zoning Ordinance No. 67-10 (November 1, 1967) designates a limited area suitable for intensive agriculture. The "A" zoning classification is intended to protect agriculture and related industry against encroachment by urban subdivision. It permits nurseries, greenhouses, tree farming, small livestock farming, and animal husbandry, dairying, and cheese processing, as well as conventional crop farming. Prime agricultural land in the county is not immediately threatened by urbanization, and natural flooding will probably protect these lands from urban encroachment until flood control works are built, and the possibility of flooding is eliminated.

HUMBOLDT COUNTY

Agriculture is 6.4 percent of the county's basic economy, about the same as tourism. The forest products industry is the major industry (78% of the basic economy). Most of the population of the county lives in the Arcata-Eureka area. Projections of population in the county are:

Years	Number of Population	Years	Number of Population
1970	107,981	1990	127,800
1975	112,600	2000	132,200
1980	117,200	2020	144,500

There are three major agricultural production areas in northern Humboldt County: 1) Eel River mouth from Ferndale to Fortuna -- a large area; 2) Arcata Bottoms, including McKinleyville and the Clam Beach area; and 3) Redwood Creek mouth and the Orick area. Although agriculture is changing from dairying to intensive agricultural crops, the potential for agriculture is comparable to the Half Moon Bay and Colma areas of San Mateo County. The climate is cool and humid, and the soils are deep and well drained; ideal for cole crops, artichokes, greenhouses, and flower crops.

There are approximately 2,500 acres of Class I and Class II crop land in the area between Arcata and Ferndale. The Arcata Bottoms, approximately 7,000 acres, west of Arcata and between the Mad River and Arcata Bay, was zoned "exclusive agriculture" by the Humboldt County Planning Commission in 1966. Potatoes, berries (strawberries, raspberries, and blackberries), lilies, and daffodils are the major crops in this area, while some growers are experimenting with artichokes, lettuce, and broccoli. The projected agricultural production in the Arcata Bottoms area is $1,100,000 by 1980. The future of agricultural lands south of Humboldt Bay is uncertain, but there is extensive prime agricultural soil in the Eel River bottoms and flood plain which is likely to be converted to urban use if the Eureka area should expand.

HUMBOLDT COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	VALUE ($1,000)
Field Crops:	
Hay - all	35
Silage	61
Pasture	32
Range	57
Sub-total	185
Vegetable Crops:	
Potato	1,013
Cucumber	3
Sub-total	1,016
Nursery Crops:	
Daffodil	160
Bulbs	90
Ornamentals	170
Tree	173
Sub-total	593
Livestock:	
Cattle	357
Sheep	302
Chickens	2
Sub-total	661
Livestock Products:	
Milk	5,441
Eggs	176
Wool	90
Sub-total	5,707

HUMBOLDT COUNTY (Cont'd)

PRODUCT	VALUE ($1,000)
Miscellaneous:	
Milk	150
Grand Total Coastal Area	$ 8,312
Grand Total County Total	$16,357
Grand Total Coastal Area, % of Total	50.8

Source: Humboldt County Agricultural Commissioner

MENDOCINO COUNTY

The coastal plain of Mendocino County contains 28,760 acres of marine terrace land, of which 3,930 acres are Class II soil (14%) and 8,846 acres are Class III soil (30%). There is no Class I soil in the coastal plain. This represents land that is being considered (1971) by the Staff Land Use Committee of the Mendocino County Board of Supervisors for preservation under the Land Conservation Act of 1966 (Williamson Act).

The principal agriculture along the Mendocino coast is dairying, beef cattle, and sheep grazing north of the Navarro River, to Humboldt County, and beef and sheep grazing south of the Navarro River to Sonoma County. Estimated gross value of coastal agriculture in the county is $1,000,000.

Water is limited along this part of the coast. Ground water supplies will not support a large population, and dams or desalinization plants will probably be necessary if population increases. At the present time, large ranches along the coast have been, and are being, purchased for subdivision as retirement and summer homes, mainly in the Fort Bragg and Westport areas. A Pacific Gas and Electric Nuclear Power Plant is being constructed on a former ranch north of the town of Point Arena, south of the Point Arena Lighthouse. These developments suggest rising population pressures in the area.

The Garcia River bottoms and Ten Mile River north of Fort Bragg, are potential agricultural lands that can use river water for irrigation. Today, these areas are used for potatoes and permanent pasture, but in the future, they could produce peas, lettuce, artichokes, and cole crops, which indeed they did in earlier days. They are uneconomical for commercial vegetable growing now only because of the present marketing situation. Winter flooding of these bottoms is preventing or delaying their development and subdivision, but flood control projects will probably hasten their development unless other measures are taken to preserve them for agricultural use.

SONOMA COUNTY

The principal agriculture along the Sonoma coast is sheep and cattle grazing north of the Russian River. South of the Russian River, there are only two dairies. The land is mostly suited for grazing, but in some locations there is good vegetable crop potential. In the past, artichokes have been raised south of Sea Ranch, and there is excellent potato soil in the Valley Ford area near the Marin County Line. Valley Ford would be an excellent crop area if irrigation water were available. The Russian River bottoms are prime agricultural soils that would be suitable for vegetable crop production and intensive greenhouse and floral culture in the future.

Population in the county is projected to increase 50% from 200,000 to 300,000 by 1985. This will bring increased pressure for recreational land use along the coast, but preserving potential crop land for future food needs, as well as for open space separation of recreational and retirement subdivisions, is an important goal of the Sonoma County Planning Department.

MARIN COUNTY

Dairying is the principal agriculture along the Marin coast. Herds are growing larger while the number of herds is decreasing. In general, the county is urban oriented. Most of the county's prime agricultural lands have been subdivided. Nevertheless, there are substantial quantities of good agricultural land in the Tomales area near Sonoma County, but water for irrigation is needed. If irrigation water from the Russian River were transported to the area, it would probably attract subdividers, and unless measures were taken to preserve the land for agriculture, subdivision would undoubtedly prevail.

MARIN COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	AMOUNT OR VALUE (Estimated)	
Irrigated Pasture	600 acres	
Other	110 acres	
Cattle and Calves	15,750 head	- $1,758,000
Sheep and Lambs	10,400 head	
Wool	90,600 pounds	
Nursery products		$ 14,210

Source: Marin County Agricultural Commissioner.

SAN MATEO COUNTY

The coastal section of San Mateo County contains small fertile valleys and marine terraces overlooking the ocean and overlooked in turn by redwood and fir covered mountains that rise to the east. The coastal area in the southwestern part of the county contains about 90% of the remaining farm land in the county. Several thousand acres of agricultural land along the coast have been converted to urban uses since World War II, and pressure is increasing from the San Francisco Bay side of the county for more building sites. Projections of population in the county are:

1975 - 603,700	1990 - 775,000
1980 - 654,700	2000 - 863,400

The climate along the San Mateo coast is ideal for a number of specialty vegetable and flower crops. The growing season averages 319 days per year and temperature records at Half Moon Bay show a variation of less than 10° in the average daily temperature between winter and summer months. A prevailing wind from the west brings the moderating fog, so common along the coast during the summer months. Because of the fog, the coastal strip is well suited to growing Brussels Sprouts, artichokes, and cut flowers for a national market. In the mid 1950's 28% of the Burssels Sprouts produced in the United States were produced on these soils. Today, 43% of the States', and 90% of the Nation's, Brussels Sprouts are produced in San Mateo County. Mushroom growing in specially constructed houses is also a successful specialty crop along the coast where the humidity is high and evaporation is low. Commercial greenhouse area in the county has increased five fold in the past 30 years. Most is

on the bayside, but more is moving to the coastside in order to escape air pollution injury to cut flower crops.

There are about 33,780 acres of marine terrace and alluvial soils below 200 feet elevation between Pillar Point north of Half Moon Bay and Ano Nuevo Point in the south. The most fertile soils are of the Watsonville-Elkhorn and the Tunitas-Lockwood series. There are about 16,900 acres of these prime soils in the area; nearly level to sloping, deep soils on marine terraces or alluvial fans and flood plains. These soils are the most intensively cultivated soils in the area. They are used for growing intensively managed crops such as Brussels Sprouts, artichokes, and cut flowers, but other vegetable crops are also cultivated for marketing, such as broccoli, cauliflower, beets, cabbage, kale, lettuce, fresh peas, potatoes, radishes, water cress, and spinach. Some of this soil is disappearing each year as a result of wave erosion along the shore line, particularly between Miramar and Princeton along Half Moon Bay, but projected urbanization will remove about 50% of the remaining prime crop land from production by 1980.

SAN MATEO COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	ACRES County	ACRES Coastal	Coastal % of County	VALUE ($1,000) County	VALUE ($1,000) Coastal
Vegetable Crops:					
Artichoke	593	593	100	501	501
Beans, Snap	59	57	97	86	83
Beets, Table	20	20	100	15	15
Broccoli	2	2	100	2	2
Brussels sprouts	1,100	1,100	100	1,457	1,457
Cabbage	64	64	100	55	55
Calabrasi	14	14	100	43	43
Carrots	4	4	100	8	8
Celery	11	11	100	34	34
Chard	58	58	100	174	174
Corn, sweet	30	5	17	26	4
Dandelion root	4	4	100	6	6
Greenleaf veg. 1/	42	42	100	42	42
Leeks	24	24	100	67	67
Parsley	9	9	100	24	24
Peas	312	312	100	160	160
Potatoes	68	68	100	86	86
Radish	240	240	100	115	115
Spinach	93	93	100	76	157
Squash					
Winter	184	177	96	161	155
Summer	10	7	70	32	22

1/ Includes Kale, mustard greens, etc.

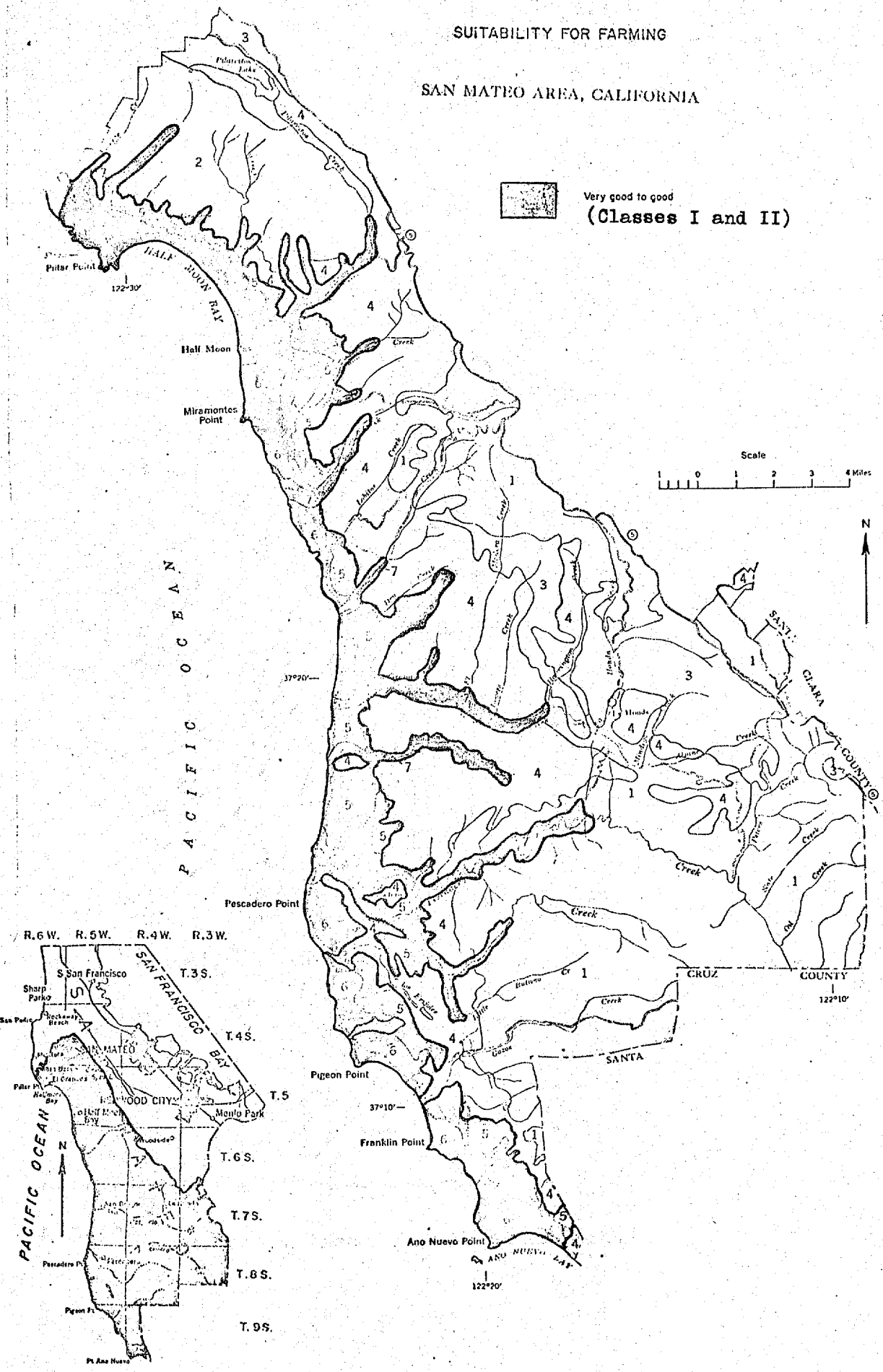
SAN MATEO COUNTY (Cont'd)

PRODUCT	ACRES County	ACRES Coastal	Coastal % of County	VALUE ($1,000) County	VALUE ($1,000) Coastal
Misc. Veg. 2/	60	52	87	3,602	3,559
Total Veg. Crops	3,326	3,276	98	7,131	7,042
Field Crops:					
Beans, dry	31	31	100	4	4
Barley	400	400	100	16	16
Hay, grain	2,850	2,350	82	119	98
Hay, other	198	198	100	6	6
Oats	1,400	1,250	89	45	40
Pasture					
Irrigated	647	619	94	52	50
Other	43,600	41,800	96	241	231
Seed Crops (all)			100	19	19
Cut Flowers & Ornamentals (all)	1,216	1,150	94	9,102	8,935
Total Crop Agriculture	60,710	51,074	84	16,735	16,441

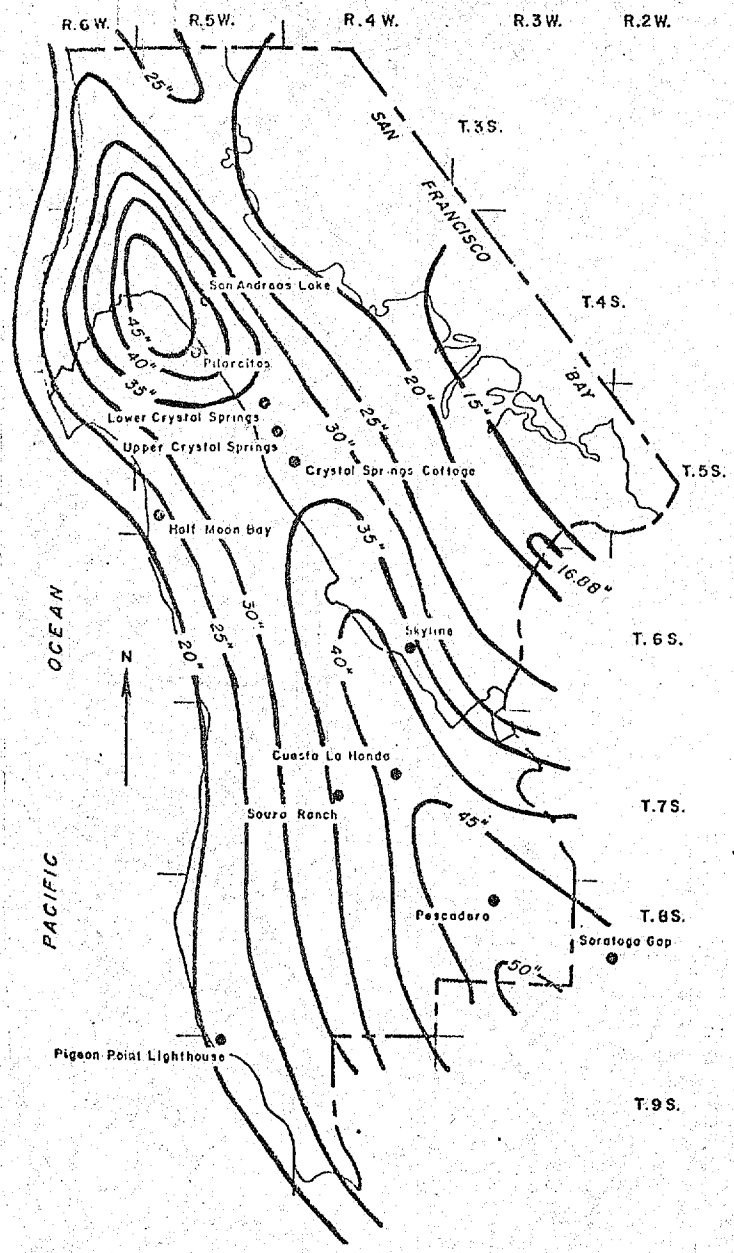
2/ Includes anise, garlic, mushrooms, parsnips, herbs, tomatoes, etc.

SUITABILITY FOR FARMING

SAN MATEO AREA, CALIFORNIA



Source: U. S. Soil Conservation Service.



Average annual precipitation in San Mateo County.

Source: U. S. Soil Conservation Service.

SANTA CRUZ COUNTY

For the past 10 years (1960-1969) the value of the agricultural production in Santa Cruz County has fluctuated between $38 and $55 million (mean $42.8 million). This is not expected to increase unless a breakthrough in agricultural technology occurs, but it could rapidly decrease if acreage is taken out of production. There are 291,840 acres in the county, 39,398 (12%) of which are prime. It will challenge government at all levels to keep the county's prime agricultural land, which is among the best in the State and unique in its location in the central coastal area, from diminishing through urban development. Projections of population in the county are:

1975 - 134,100	1990 - 165,000
1980 - 146,100	2000 - 188,300

The marine terraces north of Santa Cruz and the alluvial soils around Watsonville are among the most highly productive agricultural lands in the country. County planners feel that it is important to the future economy of the county that agriculture be protected from premature urban encroachment.

The county adopted a 25-year general plan in 1961 based on a projected 1985 population of 400,000. The plan's objectives are to maintain a sound and diversified economic base composed of a balance of agricultural production, commerce, clean industry, recreation, and professional services.

SANTA CRUZ COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

	Animal Units	Value ($1,000)	Trend in last Five Years
Sheep	2,320 head	$ 57	-
Dairy	7,920 head	1,428	-

	Acres		
Brussels sprouts	3,270	3,982	Up
Broccoli	375	235	Up
Mushrooms	-	1,956	-
Cauliflower	620	494	Steady
Strawberries	725	5,174	Steady
Bushberries	965	1,894	Down
Artichokes	420	215	Steady
Sugarbeets	100	44	Down
Lettuce	4,640	4,149	Up
Apples	8,138	9,361	Slightly down
Apricots	127	129	Down
Cut Flowers	213	2,750	-
Vegetables and Flower seed	15	44	-
Celery	310	727	Up
Totals	19,918	32,639	

Source: Santa Cruz County Agricultural Commissioner.

MONTEREY COUNTY

Agriculture is the most important single contributor to the economy of Monterey County. It produces 40% of the county's basic income. The county ranks first in the United States for the production of lettuce, artichokes, and strawberries. A long growing season makes it possible to raise three crops annually. Coastal agriculture is only a small percentage of the total agriculture of the county, the leadership of the county in the production of artichokes depends on the prime lands in the Moss Beach-Castroville area which are unique for their location and climate.

Pressures to develop and subdivide this area are strong. The county's population is projected to increase 70% in the next 15 years, from 248,400 in 1970 to 351,600 in 1985, with most of the increase expected in the coastal influence zone of the Salinas Valley, between Salinas and the coast. There are now 85,040 acres of prime agricultural soil, and 25,092 acres of grazing land, zoned "exclusive agriculture" in the county.

MONTEREY COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	COASTAL ACRES	VALUE ($1,000)
Artichokes	9,000	$ 4,844
Strawberries	20	105
Broccoli	400	421
Brussels sprouts	920	1,208
Cabbage	650	499
Cauliflower	200	197
Celery	800	1,478
Lettuce	4,500	5,133
Squash	100	116
Misc. Vegetables	590	736
Nursery Stock & Bulbs	40	176
Totals	17,220	$14,913

Source: Monterey County Agricultural Commissioner

SAN LUIS OBISPO

Prime agricultural soils along the coast from San Simeon to Morro Bay and eastward to the California Polytechnic College campus at San Luis Obispo, and along the coast from Shell Beach south to the Santa Maria River (Santa Barbara County line), have a high potential for intensive specialty crop, cut flower, and greenhouse production. These soils would be able to produce some of the crops forced out of present production areas now threatened by urban encroachment, such as Ventura County. An industrial area is planned between Nipomo and the ocean on prime land (San Luis Obispo Composit Land Use Plan, amended June 6, 1966).

The county's population is projected to increase 10% in the next 15 years from 98,350 in 1970 to 108,200 in 1985. Most of this increase is expected to be along the coast.

SAN LUIS OBISPO COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	VALUE ($1,000)
Animal Industry	$ 3,078
Field Crops and Seeds	1,048
Fruit and Nut Crops	880
Vegetable Crops	9,230
Total	$14,236

Source: San Luis Obispo County Agricultural Commissioner

SANTA BARBARA COUNTY

The largest cropland areas are in the Santa Maria and Lompoc Valleys, but prime alluvial and marine terrace soils exist along the channel between Goleta and Carpinteria. A general plan for the Goleta area, once one of the richest agricultural areas in the country, foresees agricultural land reduced 21.8% by 1980. The value of agriculture from that area will decrease from $12.7 million (32% of the area's income) to $6 million (11% of the area's income) by 1980.

The Cachuma project in the Santa Ynez Valley was completed in 1952 and brought adequate irrigation water to the channel area. Ironically, abundant water made agriculture impractical because it created conditions (increased land prices and higher taxes) favoring subdivision and residential development, forcing agricultural land owners to sell to developers. Thousands of acres have been removed from agricultural production since 1952, and losses of prime citrus land are still occurring. Local planning foresees agriculture reduced and ultimately eliminated from the channel area.

VENTURA COUNTY

There are 24,307 acres of Class I soil and 123,841 acres of Class II soil in the Ventura area (see attached map). Prime agricultural soils combined with a year-round growing climate and adequate irrigation water make the Oxnard plain one of the most fertile areas in the State. Cabbage, celery, lettuce, pimiento peppers, strawberries and fresh market tomatoes are climatically suited to this area.

Yields per acre of certain major crops under intensive management on the prime soils of the Oxnard plain are tabulated below, with the average yield per acre in the county for comparison. (Source: U.S. Soil Conservation Service)

Yield per Acre on the Oxnard Plain

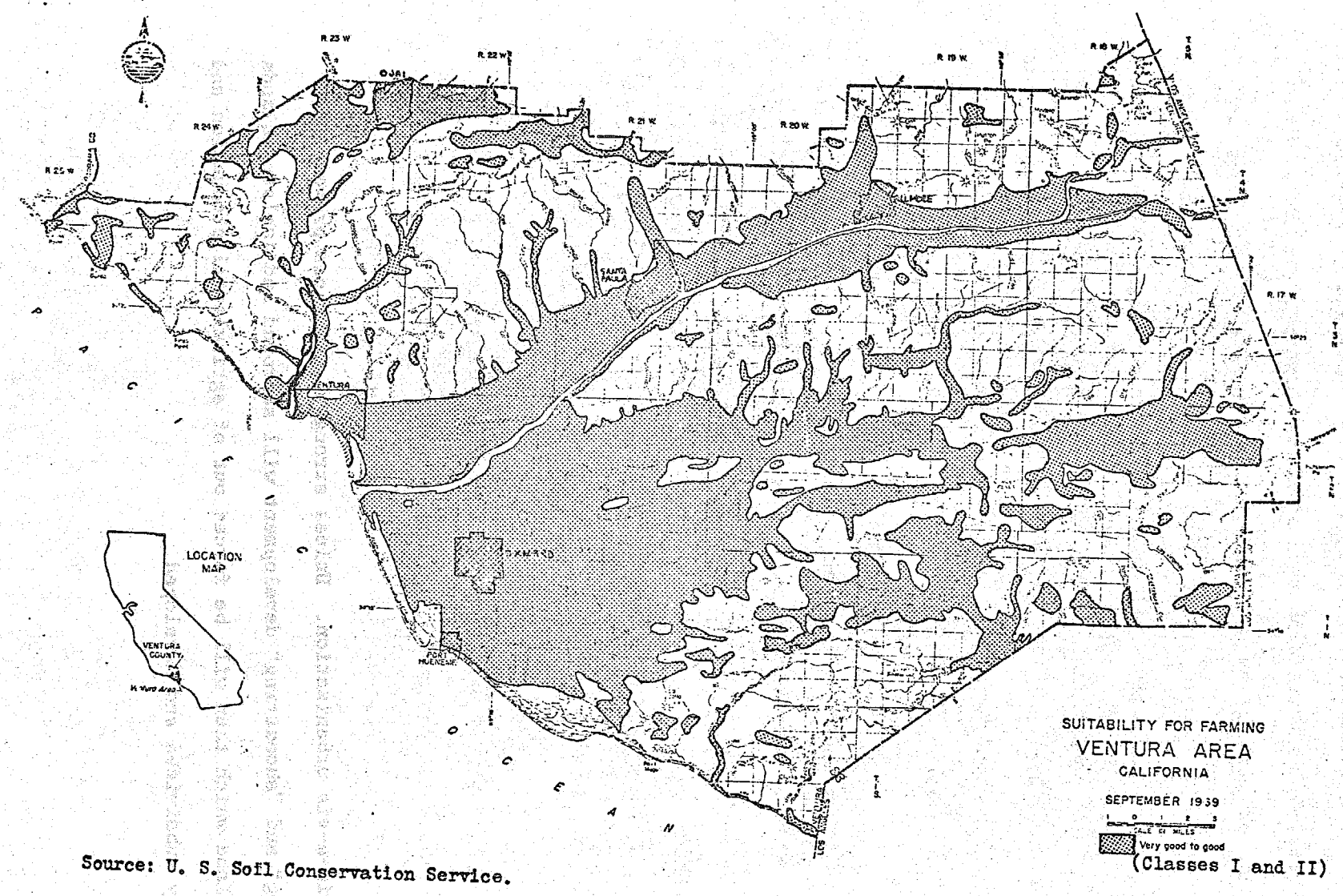
Crop	Tons	Average Yield per Acre in Other Growing Areas (Tons)
Avocado	6.5	2.5 - 3.0
Cabbage	15	10 - 12
Celery	34	27 - 29
Lemons	22.5	15.0 - 15.5
Oranges	18	9 - 15

Although urban expansion is encroaching on crop land at an alarming rate, and total acreages continue downward, farming is still a major economic activity. Citrus packing and vegetable processing are also major industries. The climate enables three crops to be grown annually. The main money crops are lemons, oranges, and tomatoes. Strawberries, avocados,

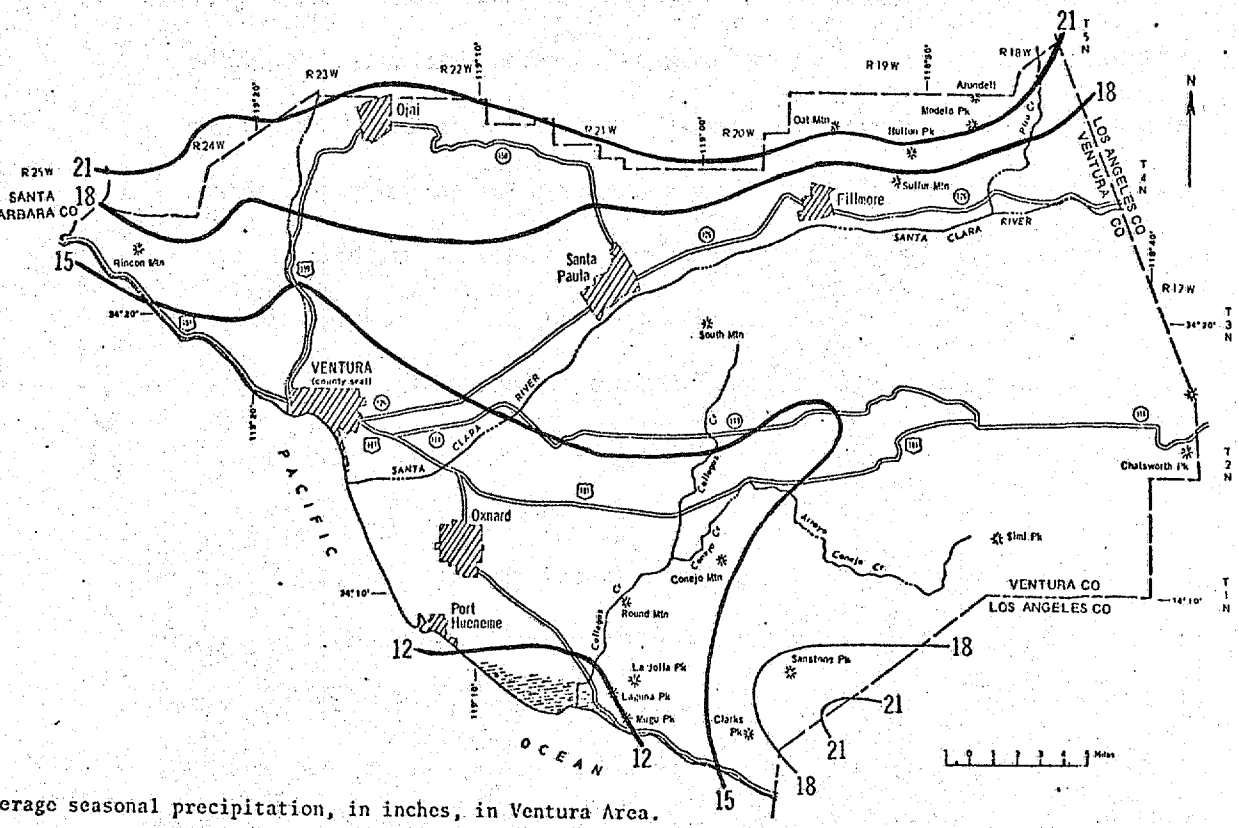
green vegetables, and cut flowers are also significant crops. In 1969, the total value of agricultural production in the county was $170,693,200 from 111,930 acres, 4,145 acres less than in 1968. However, the total economic consequences of agriculture and its related industries in the county are much greater. For example, to produce, package and transport $100 worth of celery or head lettuce (equaling one ton of each) requires $95.98 for celery and $73.82 for head lettuce. Thus, the 1969 value of $142,034,500 for crop agriculture, and $28,648,700 for livestock and related agriculture, means a total economic contribution by agriculture to Ventura County of $536,260,252 in 1969.

Water for agriculture has been adequate, but new intensive agriculture uses more water in competition with urban and industrial users. Urbanization of this rich agricultural area will create ever greater demands for water, to the further detriment of agriculture. Imported water will meet agricultural needs for a time, but reclamation and recycling of waste water will probably be required in the future. Clearly, a careful plan is needed.

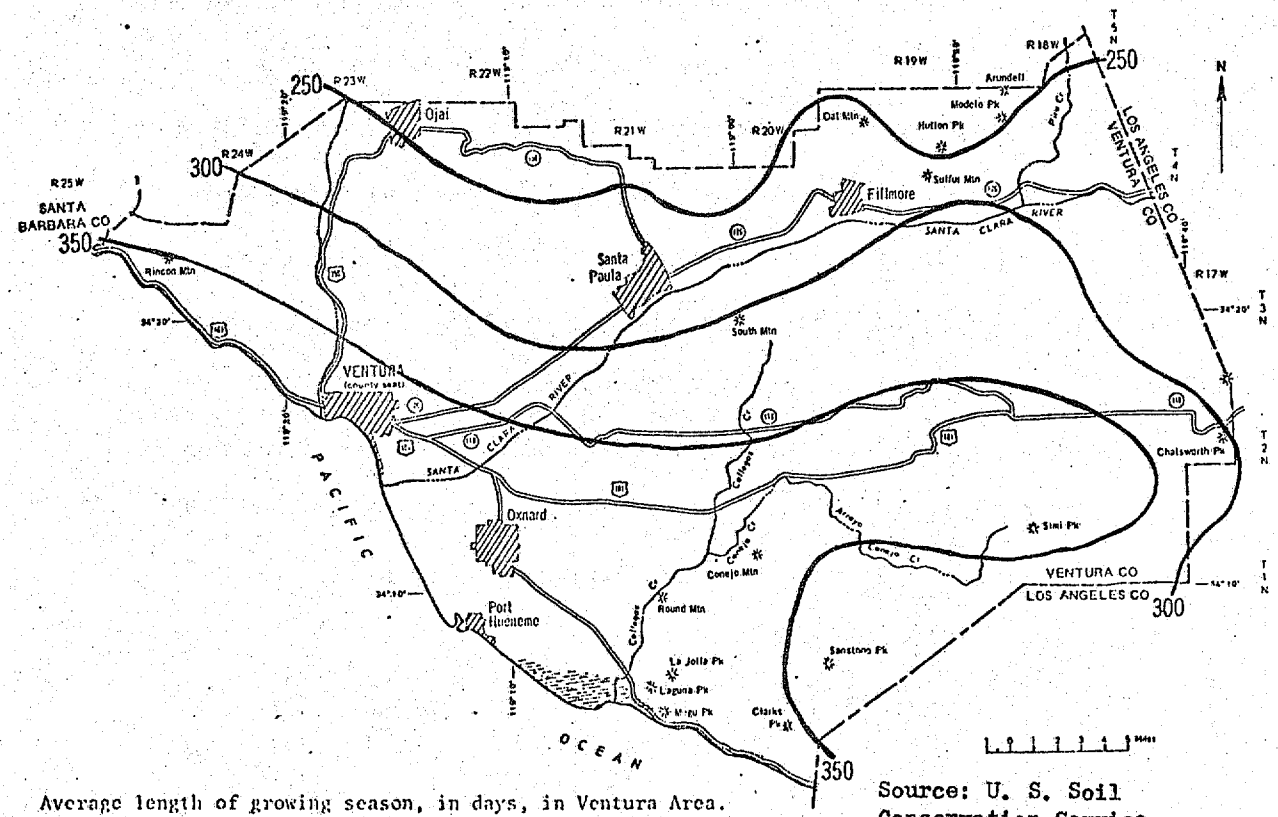
The Ventura County Comprehensive Plan for Sewage (1965) assumes that eventually all prime agricultural land in the County will be converted to urban uses. In this respect, the County is about where Orange County was in 1950 vis-a-vis urbanization. Unless strong planning can prevent it, "leap-frog" and "shoestring" development will surround and isolate islands of prime land which then will be forced out of agricultural production and eventually subdivided and developed.



Source: U. S. Soil Conservation Service.



Average seasonal precipitation, in inches, in Ventura Area.



Average length of growing season, in days, in Ventura Area.

Source: U. S. Soil Conservation Service.

ORANGE COUNTY

The climate, soil, and topography of this region are conducive to specialized crops such as oranges, lemons, walnuts, avocados, strawberries, celery, and tomatoes, but in 1970 there were only 66,000 total acres of crop land remaining in the county, with approximately 7,000 acres of patchwork crop land within five miles of the coast. At the same time urbanization covered 173,100 acres of prime land. By 2020 urbanization is projected to cover 367,200 acres or about 72% of the county (total area 507,690 acres).

It is difficult to argue for the retention of agriculture on strict economic grounds since less than 1% of the county's workers are employed in agriculture, and agriculture contributed only $62 million in basic income to the county in 1969, which was less than 10% of what the 40 largest electronic firms in the county earned. Planners in the county generally assume that the loss of agriculture will not seriously affect either the local economy or the state's agricultural output, and that the county's production can be shifted to other parts of the state. Indeed, the only reason planners seem to have for saving open land in this area at all is for permanent open space requirements. Thus, for example, a study team (Fielding, 1969) saw no reason to plan urban development on relatively non-productive land in order to leave prime soil for intensive agriculture. The team felt that agricultural land in the county should be preserved to provide open space rather than to preserve land for the sake of agriculture itself.

In a defense-based economy, however, agriculture would provide a stabilizing influence if it were encouraged to remain. Moreover, the long range retention of the remaining prime agriculture soils in the county would seem to be a prudent course, in view of projected food shortages, and the possibility that crop production in "other parts of the state" will decline from soil salinization or other foreseeable problems.

ORANGE COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	ACREAGE	F.O.B. VALUE
Tree, Fruit & Berry Crops:		
Avocados	30	$ 44,520
Lemons	11	12,035
Valencia Oranges	800	365,290
Other Deciduous & Subtropical	5	1,580
Strawberries	50	421,030
Sub-totals	896	$844,455
Truck Crops:		
Asparagus	53	$ 40,585
Beans, Snap	100	114,165
Cabbage	70	56,100
Cauliflower	280	725,120
Celery	60	236,400
Corn, Sweet	1,030	529,910
Cucumbers	30	33,625
Lettuce - All	50	49,845
Mushrooms	-	720,000
Parsley	60	64,890
Peppers-Bell	55	69,865
Peppers-Chili	50	18,905
Squash	15	20,040
Tomatoes	954	1,370,085
Misc. Vegetables	10	8,315
Sub-totals	2,817	$4,057,850

ORANGE COUNTY (Cont'd)

PRODUCT	ACREAGE	F.O.B. VALUE
Field Crops:		
Barley	2,175	$ 67,450
Beans, Dry Edible	910	208,470
Hay - All	75	3,945
Pasture & Range Irrigated (Permanent)	20	2,600
Other (Pasture Rental)	1,300	2,610
Straw	1,000	12,505
Misc. Field Crops	60	1,560
Sub-totals	3,220	$299,140
Nursery Stock:		
Potted Plants		$263,000
Ornamentals	19	262,000
Aquatic Plants	1	47,000
Flat Stock	2	40,000
Christmas Trees	5	14,275
Cut Flowers	11	57,650
Sub-totals	38	$683,925
Total acres	6,971	

PRODUCT	TOTAL POUNDS	F.O.B. VALUE
Apiary:		
Honey	3,234	$ 485
Beeswax	57	40
Sub-totals		$ 525

ORANGE COUNTY (Cont'd)

PRODUCT	ANIMAL UNITS	F.O.B. VALUE
Livestock:		
Cattle and Calves	1,071 head	$ 179,030
Chickens	8,160 birds	2,255
Milk	500 cows	528,295
Eggs, Chicken, Market	13,600 layers	104,640
Sub-total		$ 814,220
	GRAND TOTAL	$5,940,105

SAN DIEGO COUNTY

San Diego County ranks 12th in the state for the value of its agricultural production. Gross value of production was $143,055,700 in 1970. Agriculture is the 4th most important industry in San Diego County. Crop acreage is declining largely due to urbanization. In 1970 there were 62,500 acres in crop agriculture, a reduction of 48% from 120,365 acres in 1950. Agriculture in the coastal area is tending toward high-value, high-risk crops with greater return per acre to offset higher costs created by urbanization, water costs ($40-50 per acre foot and higher), and hand labor costs. Nearly all agriculture is planned away from the San Diego coast by 1990 while the markets for its produce are expected to double by then.

The industry is concentrated in certain portions of the county where the combination of soil and climate is favorable. At one time, water was the major limiting factor in determining the kind of crops that could be grown. With the importation of water from sources outside the county, growers have turned to crop specialization with emphasis on those that offer the greatest return per acre.

The Oceanside-San Luis Rey area is generally ideal for truck crops. Land used for this purpose follows the riverbottom east from Oceanside spreading out over the adjoining hills to the north of the San Luis River. Truck crops, particularly tomatoes, continue in a checkerboard pattern to the Vista area. In addition, there are scattered citrus plantings, and dairying is an important industry in the area.

South of Oceanside is the narrow band including the communities of Carlsbad, Leucadia, Encinitas, Cardiff, and Solana Beach. This strip is unexcelled for the production of truck crops. It is also the center of the county's increasing greenhouse and field grown cut flower industry. Some citrus and avocados are grown in this belt, but this is expected to decline as the area becomes more urban in character.

Urbanization is not expected to affect the flower industry extensively because the intrinsically high yields per acre of flowers makes the use of high-value land practicable. Also, the greenhouse flower industry does not create the problems of dust, pesticides, and heavy trucking which accompany other types of crop production, and are therefore more acceptable neighbors in urban areas.

A large portion of the area from Del Mar through Los Penasquitos Rancho to Poway is scheduled for subdivision, although some of it has been, and more could be, used for truck crop production.

South of El Cajon to the Mexican border and west to the ocean is a patchwork of small truck crop acreages interspersed among subdivisions. Much of this patchwork is expected to disappear as the area is further developed. Only in the Otay Ranch, Otay Mesa, and Tijuana Valley areas are there large contiguous farming acreages.

SAN DIEGO COUNTY: Agriculture in the Five-Mile Coastal Area. 1970.

PRODUCT	ACRES County	ACRES Coastal	Coastal % of County	VALUE ($1,000) County	VALUE ($1,000) Coastal
Cabbage	700	140	20.0	617	123
Cauliflower	210	150	71.4	356	254
Celery	940	90	9.6	1,788	172
Cucumber	350	50	14.3	1,165	166
Pepper (Bell, Chili)	315	80	25.4	1,274	324
Snap Bean	460	200	43.5	422	184
Squash	460	75	16.3	883	144
Strawberry	520	300	57.7	3,042	1,755
Sweet Corn	225	140	62.3	106	66
Tomato, Fall	2,600	1,750	67.3	22,041	14,833
Spring	1,400	350	25.0	8.046	2,012
Yam	n.a.	300	n.a.	n.a.	n.a.
Cut Flowers & bulbs	n.a.	1,150		15,642	n.a.
Totals	8,180	4,775		55,382	20,033

Source: San Diego County Agricultural Commissioner

III. OVERALL INTEREST AND OBJECTIVES OF THE STATE IN COASTAL AGRICULTURE

PRESENT POLICY

Primary responsibility for State agricultural policy is vested in the State Board of Agriculture and the Department of Agriculture. Present policy emphasizes marketing and public health; management of agriculture is outside the statutory authority or responsibility of the Department. Therefore, the California Department of Agriculture has no overall or geographically specific state agricultural land use policy.

Recognizing the need to preserve agricultural lands, the Williamson Act (California Land Conservation Act, Gov. Code Section 51200, et seq.) was enacted by the 1965 Legislature. The Williamson Act provides for agreements between landowners and County Boards of Supervisors to place property in agricultural preserves in return for lower tax assessments. Lower assessments are based on the land's agricultural value rather than its development potential. Two principal objectives of the Williamson Act (Appendix 3) are: (1) to discourage in the public interest unnecessary or premature conversion of prime agricultural land to urban uses ("leapfrog" and "shoestring" development patterns); and (2) to preserve prime agricultural land as a definite public asset in the form of open space separation of existing or planned urban or metropolitan development. By mid-1971, however, although seven million acres in California were in Williamson Act preserves, only 25 percent of that acreage was crop land (Wood, 1971).

Under the Williamson Act the second objective cannot be permanently achieved because the agreements expire after a certain time (normally ten years) unless they are renewed each year by the landowner. Preserving

agricultural land under the provisions of the Williamson Act should be used by the State as time in which to plan and legislate a more permanent and equitable policy.

SUGGESTED GOALS AND POLICIES FOR PRESERVING AGRICULTURAL RESOURCES IN THE COASTAL AREA

Despite the language of Article 28 of the California Constitution (Open Space Conservation, 8 November 1966) which says, "it is in the best interest of the state to maintain, preserve, conserve and otherwise continue in existence open space lands for the production of food and fiber ...", "open space" is generally considered by planners to be important only as a physical, social, or esthetic asset to enhance surrounding urban development, not as a resource for the production of food and fiber. Agriculture *per se*, as a vital supporting activity of civilization, totally dependent upon the resources of soil, climate, and water, is seldom recognized in present planning proposals and legislation. Even the objectives of the Williamson Act reflect the usual shortsighted view of agricultural resources, viz., "to discourage ... *premature* (italics added) conversion of prime agricultural land to urban uses," and "to preserve prime agricultural land ... in the form of open space separation for ... metropolitan development."

The Office of Planning and Research (OPR) under the Governor has the duty of preparing and updating every four years a State environmental goals and policy report in which "priority shall be given to the development of state-wide land use policy" (Chapter 1534, Statutes of 1970). The State Board of Agriculture and the Department of Agriculture should

be given a positive role in developing state-wide land use policies and administrative programs that would have as their goal the preservation of agricultural resources qua agricultural resources, in perpetuity.

Suggested State goals and policies for retaining and preserving agricultural resources in the coastal zone (as well as in the entire State) are predicated upon these general assumptions about the future:

1. The State's population will continue to increase and people will continue to desire a higher standard of living;

2. Present trends in technology, affluence, urbanization, etc., will increase pressure to develop substantial portions of coastal lands for urban and recreational uses;

3. Demand for coastal land for urban development will continue at high rates and the supply of suitable agricultural land will diminish;

4. The natural characteristics and values of coastline agriculture will become an increasingly scarce resource to the State and nation.

The following general statements suggest guidelines for formulating goals and designing policies for prime agricultural soil in coastal areas.

1. The coastal agricultural resource is not renewable once destroyed.

2. Areas with a naturally high potential for food production should be protected and preserved in large enough units to permit economic agricultural operations.

3. Planned uses on prime agricultural soil should be as flexible as possible to permit a return to agricultural production if future requirements demand it.

4. Compatible multiple uses of prime agricultural soils should be favored over single purpose development.

5. Long-term economic and social gains should be considered above short-term gains.

The State's policy should be to assure that agriculture will remain a major California industry into perpetuity. The State's interest in coastal agriculture could be reflected in the following goals:

1. To identify and preserve prime agricultural areas, immediately emphasizing those areas having favorable combinations of slope, climate, and soil for the production of special crops, and which are now threatened by imminent subdivision, such as areas of coastal San Mateo, Monterey, Ventura, Orange, and San Diego Counties.

2. To preserve coastal watersheds for agricultural water supplies until alternative sources of water, such as importation,

reclamation of waste, desalinization, etc. become dependable.

Policies are needed that recognize the vital importance of the agricultural resources of the State, particularly in the coastal area since agriculture along the coast is a more limited and threatened resource. Policies, for example, that would:

1. Encourage the preservation of production areas which possess unique characteristics for raising specialty crops;

2. Identify other areas of the coast in which to encourage the production of crops that are now being displaced by urbanization;

3. Identify the potential for multiple use of prime land for recreation and wildlife purposes, and coordinate State and Federal programs that encourage recreational uses on "surplus" prime land;

4. Offer incentives to local governments to accept greater responsibility for adopting and enforcing appropriate agricultural land use regulations (e.g., zoning); and

5. Discourage long term withholding of marginal agricultural land (Capability Classes IV or higher) that can be used instead of prime land for orderly urban expansion.

The following criteria for preserving agricultural lands are suggested:

1. Prime agricultural land in Classes I, II, and III of the Soil Conservation Service's Land Capability Classification.

2. Rangeland on soils that can produce feed for one animal unit on 40 acres or less.

Conventional planning with local government supervision has historically failed to preserve prime agricultural lands for food production (e.g., in Los Angeles, Orange, and Santa Clara Counties), but there are as yet no effective ways in California to deal with this problem at State or regional levels. The State Legislature could, however, provide effective implementation machinery for State action by passing zoning enactments that would protect California's valuable and diminishing prime agricultural soils. The experiences of Holland, France, Sweden, and Finland in Europe, and Hawaii [1/] in the United States, have shown that strong governmental zoning can preserve land.

If agricultural land use policies for the coastal zone cannot be made by The State Board of Agriculture, or a single comprehensive statewide land use body, an Agricultural Land Resources Commission at least should be considered as a body to develop state policy for agricultural land and its allowable uses. Such a commission could encourage and stimulate urban development on agriculturally unsuitable lands (Capability Class IV or higher), and on undeveloped land now within city limits.

1/ Hawaii Act 187, "Greenbelt Law", established State zoning control over all lands, public and private, in the State.

An Agricultural Land Resources Commission might also develop State policies that would prohibit placing public improvements on any Class I, II, or III soils, regardless of whether they are in Williamson Act preserves.

Certainly, it seems better to make a reversible policy error now than to maintain the non-policy course on which we are proceeding. If prime land is preserved and the policy proves wrong, the public will have invested in the saving process and can regain its investment and more. But if the land is lost, and it later becomes necessary to reclaim it by converting urban areas back into agricultural land, the process would be tremendously costly to the public.

REFERENCES

Alden, R. F., and M. J. Shockro. 1969. Preferential assessment of agricultural lands: preservation or discrimination? So. Calif. Law Rev. 42:59-69.

Bean, W. 1968. California: An interpretive history. McGraw-Hill, New York. 576 p.

Belser, K. 1970. The making of slurban America. Cry Calif. 5(4):1-22.

Bennett, M. K. 1939. Climate and agriculture in California. Econ. Geog. 15:153-164.

California Conservation Needs Committee. 1970. California soil and water conservation needs inventory, 1967. U. S. Dept. Agr., Soil Cons. Serv. 164 p.

California Legislature. 1970. Joint Committee on Open Space Land. Final Report. February 1970. State Printing Office. 122 p.

Curry, D. 1970. Irvine: the case for a new kind of planning. Cry Calif. 6(1):18-40.

Dean, G. W., and G. A. King. 1970. Projection of California agriculture to 1980 and 2000: potential impact of San Joaquin Valley West Side development. University of California Division of Agricultural Science, Giannini Foundation Research Report No. 312. 144 p.

Dean, G. W., G. A. King, H. O. Carter, and C. R. Shumway. 1970. Projections of California agriculture to 1980 and 2000. Calif. Agr. Esp. Sta. Bull. 847. 60 p.

Dean, G. W. and C. O. McCorkle, Jr. 1961. Projections relating to California agriculture in 1975. Calif. Agr. Exp. Sta. Bull. 778. 58 p.

Engbeck, J. H. 1966. The vanishing avocado. Cry Calif. 2(1):10-16.

Essig, E. O. 1933. The Russian settlement at Ross. Calif. Hist. Soc. Quart. 12:191-209.

Fielding, G. J. 1969. Implementation of the California Land Conservation Act in Orange County. Univ. Calif., Irvine - Project 21 Study Team on Preserving Open Space in Orange County. p. 3-4.

Hutchinson, C. B., editor. 1946. California Agriculture. Univ. Calif. Press, Berkeley. 444 p.

Johnson, W. E., and G. W. Dean. 1969. California crop trends: yields, acreages, and production areas. Calif. Agr. Exp. Sta. Bull. 551. 126 p.

Kelly, C. F. 1970. What's the purpose of an agricultural experiment station? Calif. Agr. 24(9):2.

Land, A. E. 1967. Toward optimal land use: property tax policy and land use planning. Calif. Law Rev. 55:856-897.

Parsons, P. S., and C. O. McCorkle, Jr. 1969. A statistical picture of California's agriculture. Calif. Agr. Exp. Sta. Bull. 459 (Revised) 67 p.

Snyder, J. H. 1966. Testimony to the Assembly Interim Committee on Revenue and Taxation, and the Interim Committee on Agriculture. p. 35-36. In Michael Harris, "The assessor: his bounty and his victim". Cry Calif. 2(1):35-56.

U. S. Department of Agriculture. 1961. Soil survey of the San Mateo Area, California. U. S. Dept. Agr., Soil Cons. Serv., Series 1954, No. 13. 111 p.

U. S. Department of Agriculture. 1970. Soil survey of the Ventura Area, California. U. S. Dept. Agr., Soil Cons. Serv. 148 p.

Ventura County Planning Department. 1970. The economics of conserving agriculture in Ventura County. Ventura County Planning Department, Ventura. Publ. No. 70-1. 18 p.

Wood, Wm. W. Jr. 1971. An address to the California Board of Agriculture, Sacramento, January 7, 1971. (Dr. Wood is an agricultural economist in the University Extension Service, Riverside, specializing in land use planning and taxation.)

APPENDIX 1. GENERAL LOCATION OF CLIMATES AND PRIME AGRICULTURAL SOILS IN COASTAL COUNTIES

Adapted from: Generalized soil map of California, Calif. Agr. Exp. Sta., Manual 6. (1953); and California's Plantclimates. University of California, Agr. Ext. Serv. (1967)

Soils (See pages to for descriptions of coastal soils.)

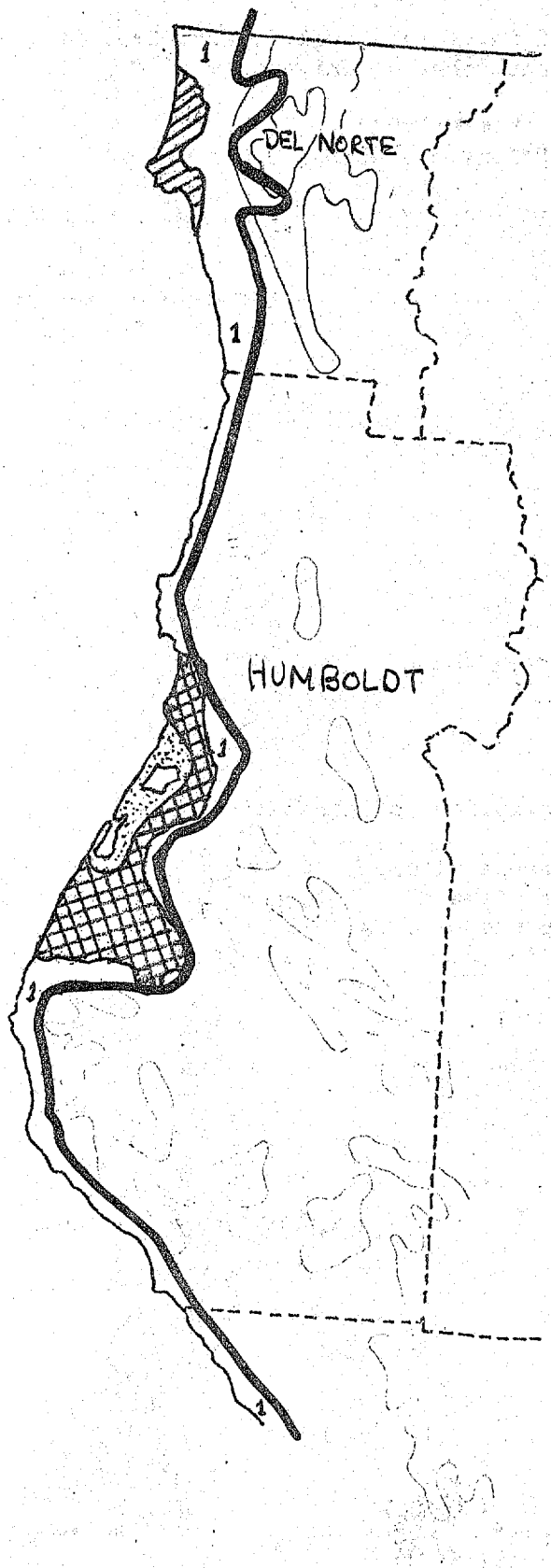
- Terrace Land, gently sloping to undulating high and intermediate rainfall areas.

- Valley Land, deep alluvial fan and flood plain soils in high and intermediate rainfall areas.

- Peat and muck soils.

Climates (See pages to for descriptions of coastal climates.)

1 - Northern coastal marine influence climate.
2 - Northern coastal thermal belt climate.
3 - Southern coastal marine influence climate.
4 - South coastal thermal belt climate.
5 - Cold-winter coastal climates.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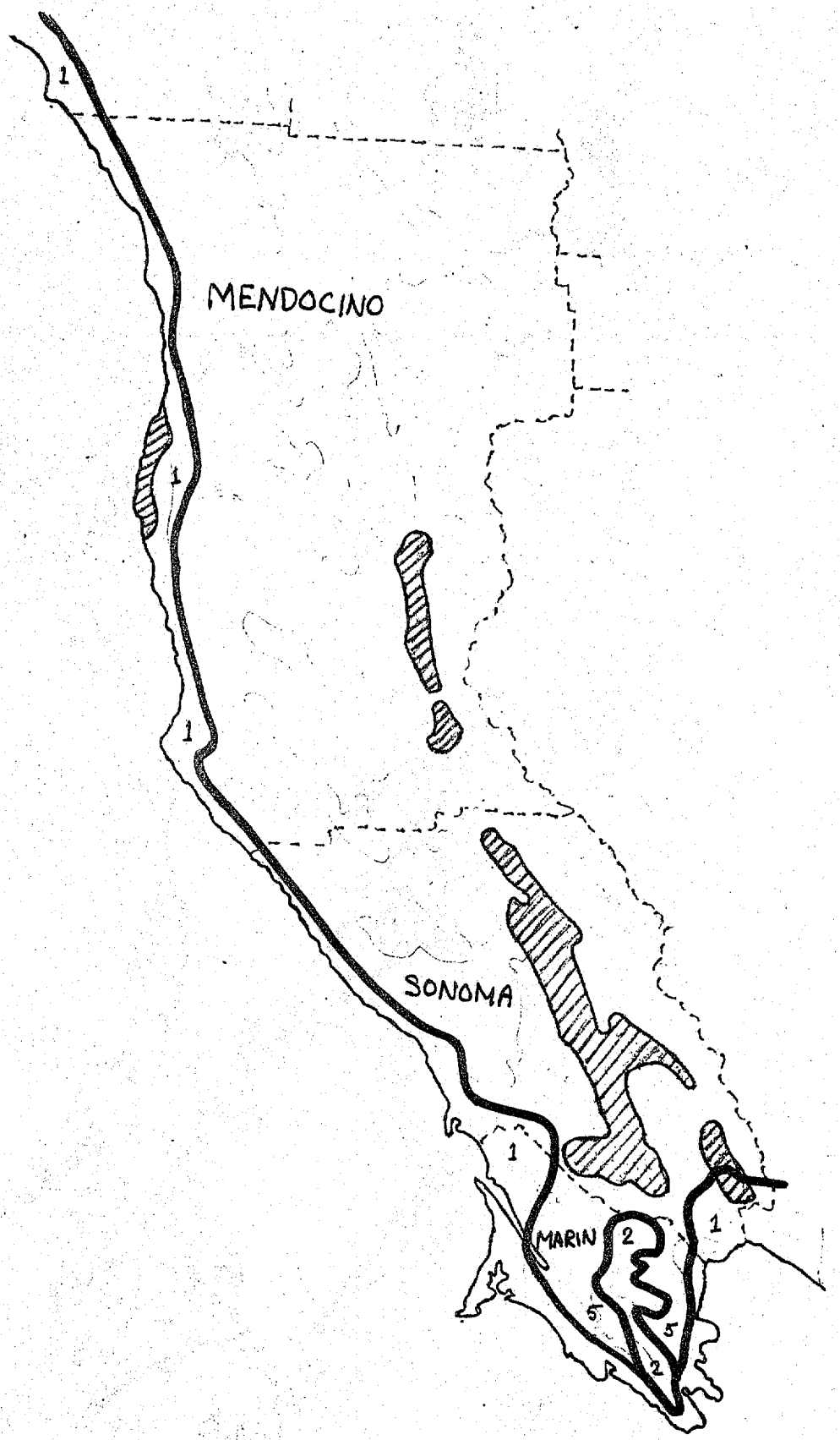
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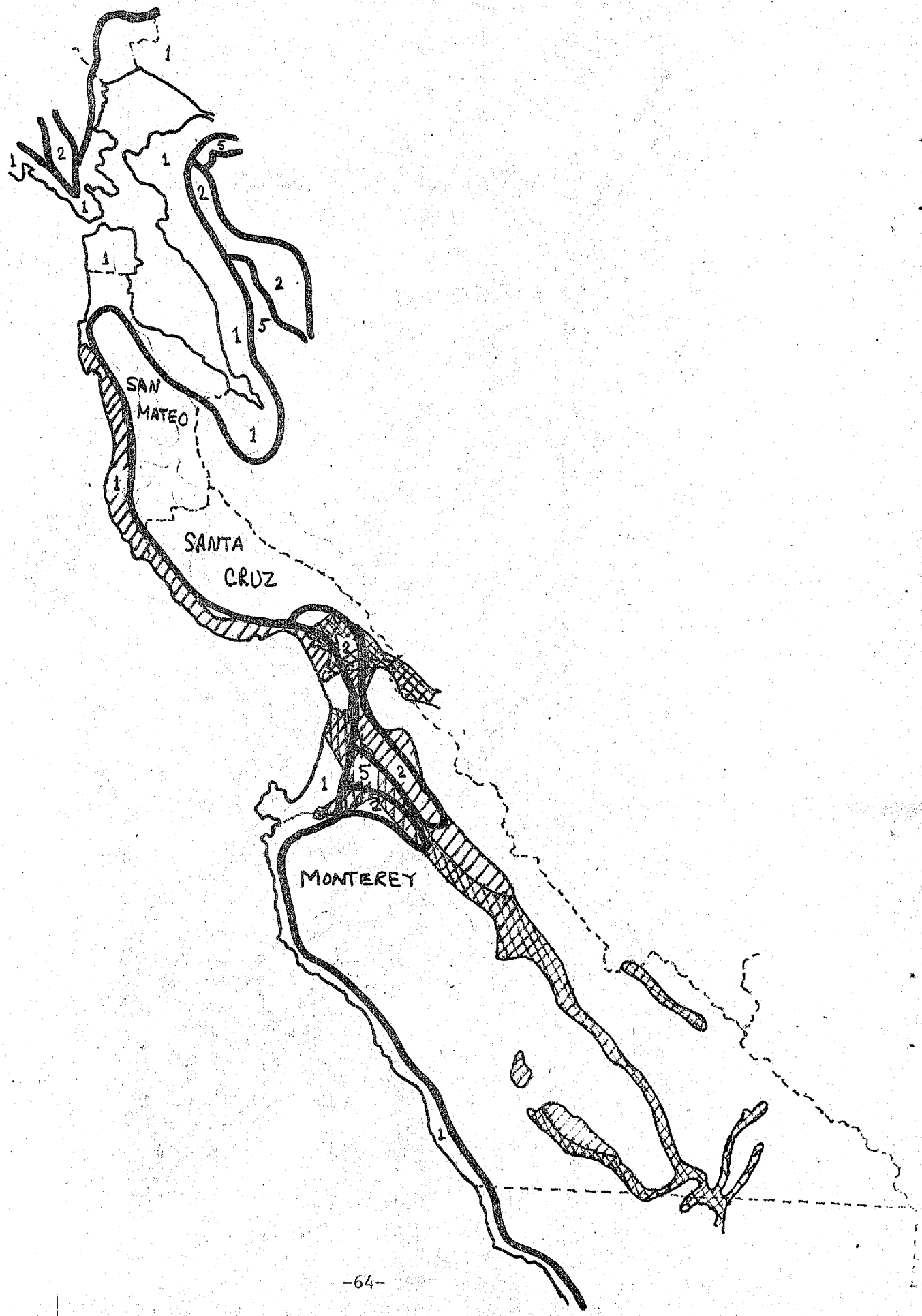
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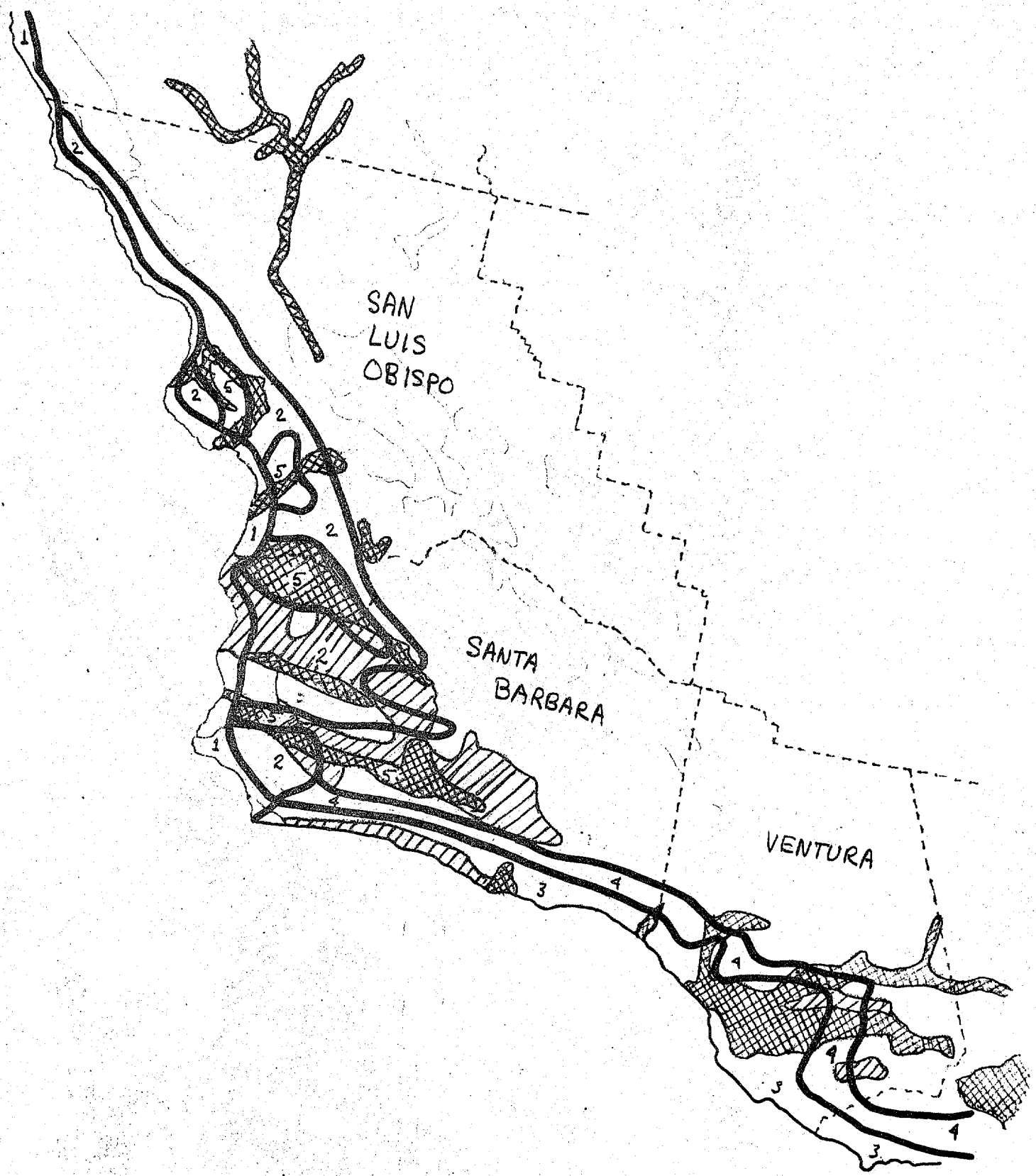
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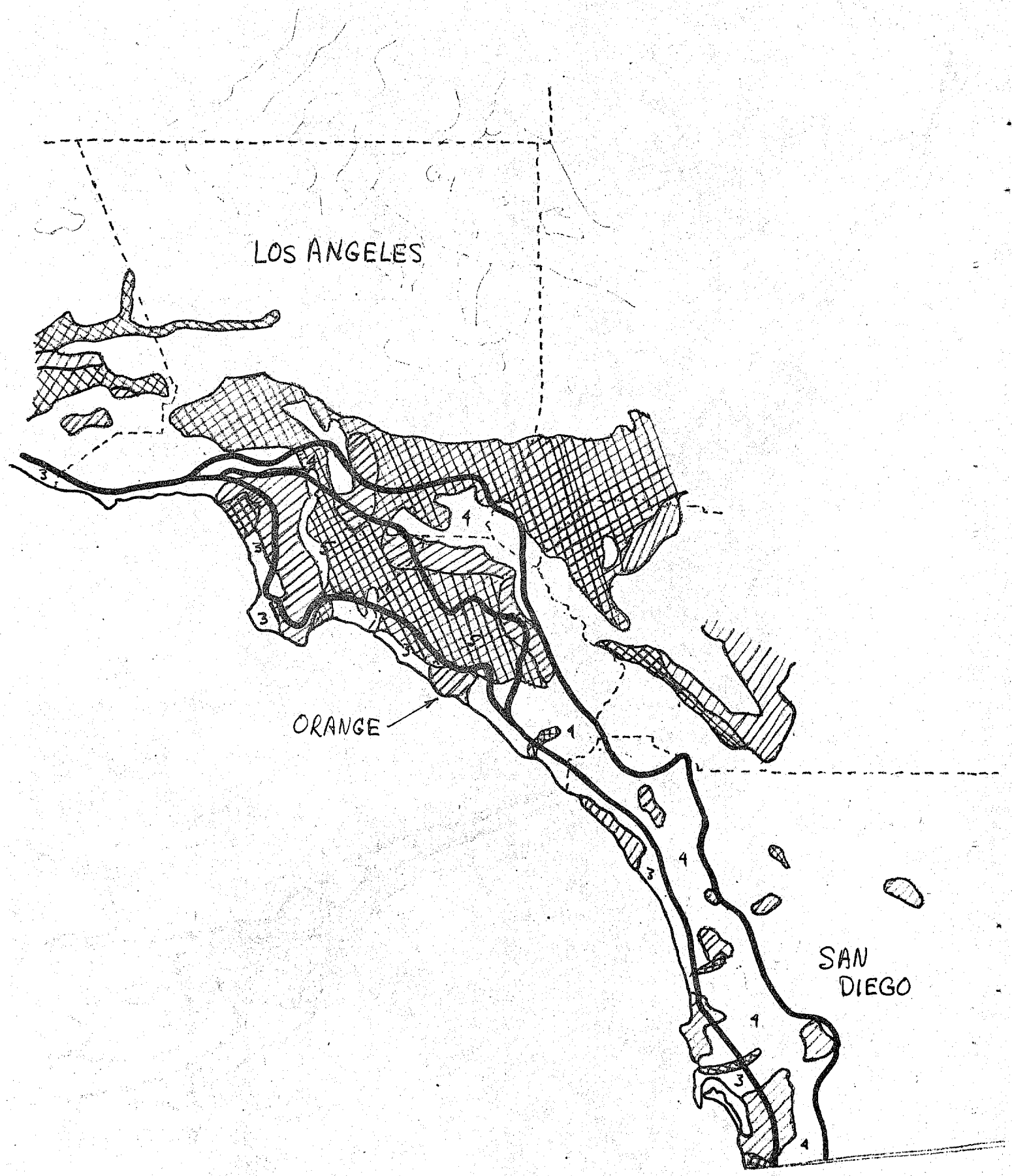
LOS ANGELES
ORANGE
SAN DIEGO

APPENDIX 2. STATE AND FEDERAL SOIL CONSERVATION AGENCIES

California Division of Soil Conservation

The State's present efforts in soil and water conservation are directed toward developing a statewide soil and water conservation policy. The California Soil Conservation Commission and the Division of Soil Conservation have the responsibility for developing statewide policy. The present policy is to encourage farm, range, woodland, and water practices which mechanically help to save soil and water resources from unreasonable and preventable erosion and to encourage and assist individual soil conservation districts. The Division does not engage directly in the management of soil resources. Functions of the Division applicable to soil and water conservation along the coastline are to provide planning and management assistance to local soil conservation districts, to help them develop district soil and water conservation plans, to give assistance in planning small watershed projects, and to help develop solutions to watershed problems.

Since urbanization is at least as destructive of soil resources as erosion, the Soil Conservation Commission and the Division of Soil Conservation should develop policies toward protecting prime soil resources against this problem.

U.S. Department of Agriculture, Soil Conservation Service

This agency furnishes technical assistance to soil and water conservation districts, provides them with financial assistance for projects, and carries on research in conservation and resource management of soil and water. The functions of the Service and the districts are to help protect the land and water resources against erosion, maintain the productive capability of agriculture (as long as the land is used for agriculture), curb water pollution, develop adequate water supplies, sustain fish and wildlife populations, manage forest land, and provide recreation.

Policies and programs of the Soil Conservation Service and districts to foster fish and wildlife, provide recreation facilities, enhance natural beauty, and restore and improve resources are importantly related to the future of the coastline. Specific programs now include planting windbreaks, renovating rangeland, establishing recreation areas, healing scarred earth, stabilizing sand dunes, protecting stream banks, creating trails and walkways, developing wildlife habitat, and providing landscaping and beautification.

Although urbanization is a much more devastating phenomenon on the land, no effort even remotely comparable to the effort to conserve soil from erosion is made to conserve prime agricultural soils from urbanization. Today, it would seem there is a need for public policy in this area.

APPENDIX 3. EXCERPT FROM THE CALIFORNIA LAND CONSERVATION ACT OF 1965 (WILLIAMSON ACT)

Government Code, Chapter 7, section 51200 *et seq*.

"Legislative findings:

"(a) Preservation of the limited supply of prime agricultural land [1/] is necessary to the conservation of the state's economic resources, and is necessary to the maintenance of the agricultural economy as well as to the assurance of adequate, healthful and nutritious food for future residents.

"(b) Discouraging unnecessary conversion of prime land to urban uses is a matter of public interest.

"(c) Preservation of agricultural land as open space is an important physical, social, esthetic and economic asset to the public."

1/ "Prime agricultural land" means: (1) all land which qualifies for rating as Class I or Class II in the Soil Conservation Service Land Use Capability Classifications, or (2) land which has returned from the production of unprocessed agricultural plant products an annual gross value of not less than two hundred dollars per acre for three of the previous five years.

APPENDIX 4. COASTAL AGRICULTURE

These are countywide estimates[1/] representing crops that are commonly produced in coastal areas. The last two columns of each page indicate relative coastal dependency (% of state's acreage in the coastal county), and relative value of coastal production (% of state's total value from the coastal county). For example, San Mateo and Santa Barbara Counties produce, on the average, higher valued artichokes from their acreage (approximately 14% of the value on 9% of the acres), than Santa Cruz or Monterey Counties (approximately 86% of the value on 91% of the acres). This is because Santa Cruz and Monterey Counties have more "marginal" plantations producing artichokes for processing than San Mateo and Santa Barbara Counties, who have more "optimal" plantations producing fresh market artichokes.

1/ 1969 county estimates reported to the State and Federal Crop and Livestock Reporting Service, Sacramento

Crop **ARTICHOKES** Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	×	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	684	4.04	2 764	208.79	577 100	2	6.04	8.44
	Santa Cruz	420	2.96	1 245	172.69	215 000	4	3.71	3.14
	Monterey	9 900	2.41	23 864	237.60	5 670 000	1	87.42	82.88
	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	320	4.4	1 410	269.00	379 000	3	2.83	5.54
	Ventura	—	.		.				
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	—	.		.				
	STATE TOTAL	11 324	.	29 283	.	6 841 100		100.00	100.00

Crop ASPARAGUS Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
NORTH	Humboldt	—	.		.				
NORTH	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
CENTRAL	Marin	—	.		.				
CENTRAL	San Francisco	—	.		.				
CENTRAL	San Mateo	—	.		.			.	
CENTRAL	Santa Cruz	—	.		.			.	
CENTRAL	Monterey	1 530	1.74	2 670	434.45	1 160 000	4	3.65	4.44
CENTRAL	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	—	.		.			.	
SOUTH	Ventura	—	.		.				
SOUTH	Los Angeles	—	.		.				
SOUTH	Orange	570	2.34	1 334	523.70	698 700	8	1.36	2.67
SOUTH	San Diego	X	.		.				
	STATE TOTAL	41 942	.	65 672	.	26 120 000		5.01	7.11

Crop **BEANS, GREEN LIMA** Units *Tons*

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	×	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	—	.		.			.	
	Monterey	3 190	1.92	6 120	173.00	1 059 000	3	10.86	13.52
	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	2 000	1.5	3 000	190.00	570 000		7.03	7.28
	Ventura	10 100	2.09	21 100	165.00	3 482 000	1	35.52	44.46
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	—	.		.				
	STATE TOTAL	28 431	.	46 500	.	7 831 900		53.41	65.26

Crop **BEANS - GREEN SNAP** Units *Tons*

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	X	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	47	2.32	109	336.00	36 600		0.48	0.64
	Santa Cruz	440	4.89	2 150	247.00	531 000		4.48	9.47
	Monterey	750	2.33	7 750	110.00	192 000		7.64	3.42
	San Luis Obispo	222	6.06	7 345	358.23	446 000		2.26	7.95
SOUTH	Santa Barbara	54	4.6	248	300.00	74 400		0.55	1.33
	Ventura	—	.		.				
	Los Angeles	—	.		.				
	Orange	679	4.02	2 730	291.50	795 800		6.91	14.19
	San Diego	460	3.9	7 780	237.00	422 000		4.68	7.53
	STATE TOTAL	9 823	.	32 981	.	5 607 414		27.00	44.53

Crop .....BROCCOLI..... Units Tons.

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	3	3.3	10	210.00	2 080		.01	.01
	Santa Cruz	375	3.28	1 230	191.00	235 000		1.30	1.24
	Monterey	14 730	2.92	43 057	245.28	10 561 000	1	51.24	55.84
	San Luis Obispo	2 745	3.41	9 350	202.03	1 889 000	3	9.55	9.99
SOUTH	Santa Barbara	8 100	3.8	31 000	161.29	5 000 000	2	28.18	26.44
	Ventura	2 260	2.3	5 200	180.00	936 000	4	7.86	4.95
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	—	.		.				
	STATE TOTAL	2.8 748	.	91 510	.	18 912 925		98.14	98.47

Crop BRUSSEL SPROUTS Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	1 010	6.73	6 800	210.00	1 427 500	2	19.14	22.16
	Santa Cruz	3 270	5.63	18 400	216.40	3 982 000	1	61.98	61.82
	Monterey	850	4.50	3 825	210.00	803 000	3	16.11	12.47
	San Luis Obispo	146	5.99	875	261.71	229 000	4	2.77	3.55
SOUTH	Santa Barbara	x	.		.			.	
	Ventura	—	.		.				
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	—	.		.				
	STATE TOTAL	5 276	.	29 900	.	6 441 500		100.00	100.00

Crop CABBAGE Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	X	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	64	9.75	624	64.00	39 900		0.71	0.57
	Santa Cruz	375	14.3	5 350	64.80	347 000		4.18	4.96
	Monterey	1 080	11.64	12 575	68.80	865 000	2	12.04	12.36
	San Luis Obispo	315	12.2	3 850	60.00	231 000		3.51	3.30
SOUTH	Santa Barbara	480	18.0	8 640	68.00	588 000	5	5.35	8.40
	Ventura	2 160	12.03	26 000	68.50	1 781 000	1	24.07	25.45
	Los Angeles	360	10.0	3 600	86.00	310 000		4.01	4.43
	Orange	538	12.8	6 881	55.00	378 500		6.00	5.41
	San Diego	700	14.0	9 800	63.00	617 000	4	7.80	8.82
	STATE TOTAL	8 973	.	103 462	.	6 998 106		67.67	73.70

Crop CARROTS Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	4	11.2	45	140.00	6 300		0.02	0.02
	Santa Cruz	—	.		.			.	
	Monterey	4 300	14.7	63 068	105.51	6 654 000	1	19.60	26.36
	San Luis Obispo	226	17.9	4 050	92.00	373 000	9	1.03	1.48
SOUTH	Santa Barbara	1 230	15.0	18 400	80.00	1 472 000	5	5.61	5.83
	Ventura	280	15.0	4 200	90.00	378 000	8	1.28	1.50
	Los Angeles	260	26.00	6 760	109.00	737 000	7	1.18	2.92
	Orange	376	10.3	3 858	51.24	197 700	10	1.71	0.78
	San Diego	—	.		.				
	STATE TOTAL	21 938	.	371 166	.	25 245 682		30.43	38.89

Crop **CAULIFLOWER** Units Tons.

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	620	4.3	2 665	185.36	494 000		3.98	3.21
	Monterey	8 600	4.51	38 810	216.62	8 407 000		55.23	54.68
	San Luis Obispo	618	5.52	3 412	245.60	838 000		3.97	5.45
SOUTH	Santa Barbara	1 530	5.8	8 830	209.29	1 848 000		9.83	12.02
	Ventura	212	4.5	954	190.00	181 000		1.36	1.18
	Los Angeles	25	14.0	350	72.00	25 200		0.16	0.16
	Orange	510	9.64	4 916	124.84	613 700		3.28	3.99
	San Diego	210	8.2	1 720	207.00	356 000		1.35	2.32
	STATE TOTAL	15 570	.	77 546		15 374 596		79.16	83.01

Crop CELERY Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	11	27.8	306	104.00	31 800	10	0.07	0.07
	Santa Cruz	310	18.9	5 850	124.27	727 000	7	1.92	1.53
	Monterey	5 685	31.1	176 540	103.28	18 233 000	1	35.29	38.49
	San Luis Obispo	1 518	26.4	40 080	125.00	5 010 000	3	9.42	10.58
SOUTH	Santa Barbara	780	27.0	21 100	120.00	2 532 000	5	4.84	5.34
	Ventura	5 440	29.23	159 000	100.00	15 900 000	2	33.77	33.56
	Los Angeles	12	25.0	300	80.00	24 000	1	0.07	0.05
	Orange	1 263	23.4	29 529	99.90	2 949 900	4	7.84	6.23
	San Diego	940	28.0	26 300	68.00	1 788 000	6	5.83	3.78
	STATE TOTAL	16 111	.	461 684	.	47 364 078		99.05	99.63

Crop CUCUMBERS Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	160	13.25	2 120	92.45	196 000		2.45	2.65
	Monterey	X	.		.			.	
	San Luis Obispo	47	10.9	512	139.50	70 400		0.72	0.95
SOUTH	Santa Barbara	X	.		.			.	
	Ventura	253	13.52	3 420	151.00	516 000		3.88	6.97
	Los Angeles	—	.		.				
	Orange	321	10.3	3 297	106.34	350 600		4.93	4.74
	San Diego	350	16.0	5 600	208.00	1 165 000	3	5.37	15.74
	STATE TOTAL	6 514	.	69 191	.	7 400 128		17.35	31.05

Crop .....LETTUCE (HEAD)..... Units .Tons.

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	X	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	300	5.4	1 620	145.00	235 000		0.22	0.17
	Santa Cruz	4 640	11.4	52 782	78.61	4 149 000	6	3.33	3.07
	Monterey	51 820	12.4	642 295	76.35	49 040 000	1	37.19	36.26
	San Luis Obispo	4 486	15.0	67 296	75.41	5 075 000	5	3.22	3.75
SOUTH	Santa Barbara	4 280	12.00	51 400	75.00	3 855 000	9	3.07	2.85
	Ventura	3 960	10.00	39 600	100.00	3 960 000	8	2.84	2.93
	Los Angeles	—	.		.				
	Orange	X	.		.				
	San Diego	165	13.0	2 150	140.00	301 000		0.12	0.24
	STATE TOTAL	139 320	.	1 531 343	.	135 236 965		49.99	49.27

Crop GREEN ONION Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	—	.		.			.	
	Monterey	—	.		.			.	
	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	—	.		.			.	
	Ventura	82	15.00	1 230	147.00	181 000		3.65	3.84
	Los Angeles	710	21.0	14 910	148.00	2 207 000	1	31.58	46.94
	Orange	—	.		.				
	San Diego	×	.		.				
	STATE TOTAL	2 248	.	58 187	.	4 701 610		35.23	50.78

Crop GREEN PEAS Units Tons.

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	408	1.5	612	276.00	169 000	2	5.14	12.46
	Santa Cruz	—	.		.			.	
	Monterey	×	.		.			.	
	San Luis Obispo	210	1.4	285	280.00	82 600		2.64	6.09
SOUTH	Santa Barbara		.		.			.	
	Ventura	1 170	1.74	2 030	85.10	173 000		14.73	12.76
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	—	.		.				
	STATE TOTAL	7 944	.	13 829	.	1 355 600		22.51	31.32

Crop **BELL PEPPER** Units *Tons*

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	—	.		.			.	
	Monterey	—	.		.			.	
	San Luis Obispo	367	6.5	2 385	207.00	494 000		6.27	7.23
SOUTH	Santa Barbara		.		.			.	
	Ventura	700	8.0	5 600	84.00	470 000		11.97	6.88
	Los Angeles	—	.		.				
	Orange	X	.		.				
	San Diego	265	7.1	1 880	286.00	538 000		4.53	7.88
	STATE TOTAL	5 850	.	44 463	.	6 830 117		22.77	21.99

Crop POTATOES Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	X	.		.				
	Humboldt	1 356	13.04	16 376	54.68	895 410		1.54	1.21
	Mendocino	X	.		.				
CENTRAL	Sonoma	X							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	100	15.5	1 550	50.00	77 500		0.11	0.10
	Santa Cruz	—	.		.				
	Monterey	7 480	16.17	121 000	56.20	6 800 000	3	8.48	9.20
	San Luis Obispo	259	18.0	4 660	48.00	224 000		0.29	0.30
SOUTH	Santa Barbara	2 430	18.0	43 700	52.00	2 272 000	7	2.75	3.08
	Ventura	—	.		.				
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	1 080	16.0	17 300	70.00	1 211 000	8	1.22	1.64
	STATE TOTAL	88 217	.	1 437 394	.	73 876 325		12.85	15.53

Crop SPINACH Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	96	5.82	559	233.27	130 400	4	1.15	5.07
	Santa Cruz	—	.		.				
	Monterey	3 300	9.39	31 000	28.60	887 000	2	39.40	34.14
	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	X	.		.				
	Ventura	2 130	7.22	15 390	65.11	1 002 000	1	25.43	38.56
	Los Angeles	—	.		.				
	Orange	—	.		.				
	San Diego	X	.		.				
	STATE TOTAL	8 376	.	66 654	.	2 598 400		65.98	77.81

Crop TOMATOES, ALL Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	X	.		.				
	Humboldt	33	8.13	268	119.32	32 008		0.02	0.02
	Mendocino	X	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	110	12.6	1 390	297.84	414 000		0.06	0.23
	Monterey	5 500	17.7	97 500	176.53	17 212 000	4	3.06	9.64
	San Luis Obispo	102	10.0	1 020	222.00	226 000		0.06	0.13
SOUTH	Santa Barbara	1 200	23.5	28 200	30.30	854 000		0.67	0.48
	Ventura	5 630	21.74	122 370	83.12	10 171 000	6	3.13	5.70
	Los Angeles	75	13.0	975	327.00	319 000		0.04	0.18
	Orange	3 281	22.3	73 113	72.54	5 303 4.00		1.83	2.97
	San Diego	4 000	23.32	93 300	322.48	30 087 000	1	2.23	16.86
	STATE TOTAL	179 668	.	3 751 529	.	178 381 450		11.08	36.21

Crop APPLES, ALL Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
NORTH	Humboldt	26	8.50	221	89.53	19 787		0.12	0.10
NORTH	Mendocino	695	11.87	8 250	61.50	507 000	6	3.31	2.61
CENTRAL	Sonoma	8 839	12.81	113 270	53.57	6 068 000	2	42.07	31.30
CENTRAL	Marin	—	.		.				
CENTRAL	San Francisco	—	.		.				
CENTRAL	San Mateo	43	3.93	169	115.86	19 580		0.20	0.10
CENTRAL	Santa Cruz	8 138	14.73	119 900	78.07	9 361 000	1	38.73	48.28
CENTRAL	Monterey	679	.	8 989	79.72	716 600	4	3.23	3.70
CENTRAL	San Luis Obispo	170	3.1	527	95.00	50 100		0.81	0.26
SOUTH	Santa Barbara	—	.		.			.	
SOUTH	Ventura	—	.		.			.	
SOUTH	Los Angeles	24	4.7	113	133.00	15 000		0.11	0.08
SOUTH	Orange	—	.		.				
SOUTH	San Diego	305	2.8	850	123.52	105 000	10	1.45	0.54
	STATE TOTAL	21 012	.	269 193	.	19 388 232		90.03	86.97

Crop AVOCADOS Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
NORTH	Humboldt	—	.		.				
NORTH	Mendocino	—	.		.				
CENTRAL	Sonoma								
CENTRAL	Marin	—	.		.				
CENTRAL	San Francisco	—	.		.				
CENTRAL	San Mateo	—	.		.			.	
CENTRAL	Santa Cruz	—	.		.			.	
CENTRAL	Monterey	—	.		.			.	
CENTRAL	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	1 920	4.3	8 330	340.00	2 832 000	2	10.60	12.48
SOUTH	Ventura	2 947	2.43	7 150	302.00	2 159 000	3	16.27	9.51
SOUTH	Los Angeles	1 259	1.42	1 788	300.00	536 000	5	6.95	2.36
SOUTH	Orange	1 183	2.71	3 206	494.01	1 583 800	4	6.53	6.98
SOUTH	San Diego	10 375	3.2	33 200	463.00	15 372 000	1	57.27	67.74
	STATE TOTAL	18 116	.	54 372	.	22 691 369		97.62	99.07

Crop GRAPEFRUIT Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	–	.		.				
	Humboldt	–	.		.				
	Mendocino	–	.		.				
CENTRAL	Sonoma	–							
	Marin	–	.		.				
	San Francisco	–	.		.				
	San Mateo	–	.		.			.	
	Santa Cruz	–	.		.			.	
	Monterey	–	.		.			.	
	San Luis Obispo	–	.		.				
SOUTH	Santa Barbara	–	.		.			.	
	Ventura	767	12.70	9 740	119.92	1 168 000	3	6.14	8.32
	Los Angeles	80	2.5	200	120.00	24 000		0.64	0.17
	Orange	146	13.3	1 942	64.42	125 100		1.17	8.91
	San Diego	150	12.00	1 805	78.86	142 350		1.20	1.01
	STATE TOTAL	12 493	.	162 545	.	14 044 614		9.15	18.41

Crop LEMONS, ALL Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	–	.		.				
	Humboldt	–	.		.				
	Mendocino	–	.		.				
CENTRAL	Sonoma	–							
	Marin	–	.		.				
	San Francisco	–	.		.				
	San Mateo	–	.		.			.	
	Santa Cruz	–	.		.			.	
	Monterey	–	.		.			.	
	San Luis Obispo	–	.		.				
SOUTH	Santa Barbara	4 160	13.5	56 300	168.38	9 480 000	2	10.84	12.34
	Ventura	22 553	15.08	340 000	159.64	54 276 000	1	58.77	70.66
	Los Angeles	1 787	7.1	12 688	145.00	1 840 000	6	4.66	2.40
	Orange	523	8.24	4 310	137.24	591 506	8	1.36	0.77
	San Diego	1 655	10.6	17 540	123.38	2 164 000	5	4.31	2.82
	STATE TOTAL	38 374	.	491 179	.	76 808 711		79.94	88.99

Crop ORANGES (All) Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	—	.		.			.	
	Santa Cruz	—	.		.			.	
	Monterey	—	.		.			.	
	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	80	3.0	240	150.00	36 000		00.5	0.03
	Ventura	20 857	14.91	311 044	67.06	19 304 800	2	12.49	13.46
	Los Angeles	2 375	3.5	8 316	53.87	448 000		1.42	0.31
	Orange	15 462	10.12	156 485	49.99	7 823 100	5	9.26	5.46
	San Diego	7 035	3.5	54 055	44.76	419 640		4.21	0.29
	STATE TOTAL	167 039	.	1 644 260	.	143 334 196		27.43	19.55

Crop STRAWBERRIES (All) Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	X							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	3	12.00	36	586.00	21 100		0.04	0.04
	Santa Cruz	725	15.81	11 460	451.48	5 174 000	5	8.72	9.02
	Monterey	2 194	12.76	28 005	412.46	11 551 000	2	26.38	20.14
	San Luis Obispo	210	16.75	3 518	440.02	1 548 000	10	2.53	2.70
SOUTH	Santa Barbara	580	18.6	10 790	481.28	5 193 000	4	6.97	9.06
	Ventura	915	23.55	21 550	421.58	9 085 000	3	11.00	15.85
	Los Angeles	525	14.8	7 770	486.00	3 776 000	6	6.31	6.59
	Orange	1 632	23.4	38 189	345.00	13 175 200	1	19.62	22.98
	San Diego	520	15.0	7 800	390.00	3 042 000	7	6.25	5.30
	STATE TOTAL	8 316	.	14.1 377	.	57 332 325		87.82	91.72

Crop PASTURE - IRRIGATED Units Acres

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	3 000	.		15.00	45 000		0.27	0.08
	Humboldt	8 500	.		60.60	515 100		0.77	0.93
	Mendocino	5 300	.		50.00	265 000		0.48	0.48
CENTRAL	Sonoma	15 000			45.00	675 000		1.36	1.22
	Marin	800	.		45.00	36 000		0.07	0.06
	San Francisco	—	.		.				
	San Mateo	700	.		72.00	50 400		0.06	0.09
	Santa Cruz	4 270	.		35.00	149 000		0.39	0.27
	Monterey	2 300	.		40.00	92 000		0.21	0.17
	San Luis Obispo	3 650	.		40.00	146 000		0.33	0.26
SOUTH	Santa Barbara	9 540	.		60.00	572 000		0.87	1.03
	Ventura	—	.		.				
	Los Angeles	3 000	.		190.00	570 000		0.27	1.03
	Orange	453	.		130.00	58 900		0.04	0.11
	San Diego	1 680	.		80.00	134 000		0.15	0.24
	STATE TOTAL	1 100 025	.		.	55 437 500		5.27	5.97

Crop PASTURE - OTHER Units Tons

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	24 650	.		6.00	148 000		0.13	0.27
NORTH	Humboldt	240 000	.		7.92	1 900 800	10	1.30	3.53
NORTH	Mendocino	975 000	.		1.60	1 564 000		5.28	2.90
CENTRAL	Sonoma	423 100			1.81	765 000		2.29	1.42
CENTRAL	Marin	145 000	.		3.00	435 000		0.78	0.81
CENTRAL	San Francisco	—	.		.				
CENTRAL	San Mateo	41 500	.		5.00	208 000		0.22	0.39
CENTRAL	Santa Cruz	49 100	.		5.00	246 000		0.27	0.46
CENTRAL	Monterey	—	.		.			.	
CENTRAL	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara	575 000	.		4.00	2 300 000	8	3.11	4.27
SOUTH	Ventura	—	.		.				
SOUTH	Los Angeles	220 000	.		1.50	330 000		1.19	0.61
SOUTH	Orange	5 600	.		20.00	11 200		0.03	0.02
SOUTH	San Diego	420 000	.		0.60	252 000		2.27	0.47
	STATE TOTAL	18 479 157	.		.	53 877 700		16.87	15.15

Crop CUT FLOWERS & DECORATIVES (All) Units .....

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte		.		.	49 000		0.06	
	Humboldt		.		.	100 506		0.12	
	Mendocino		.		.				
CENTRAL	Sonoma					200 700		0.24	
	Marin		.		.	389 000		0.47	
	San Francisco		.		.	536 010		0.65	
	San Mateo		.		.	13 506 210	3	16.36	
	Santa Cruz		.		.	2 750 000	8	3.33	
	Monterey		.		.	(UNPUBLISHED)		.	
	San Luis Obispo		.		.	–			
SOUTH	Santa Barbara		.		.	4 945 000	6	5.99	
	Ventura		.		.	3 342 000	7	4.05	
	Los Angeles		.		.	5 202 000	5	6.30	
	Orange		.		.	1 587 400	10	1.92	
	San Diego		.		.	14 956 000	1	18.11	
	STATE TOTAL		.		.	82 543 155		64.63	

Crop GLADIOUS Units DOZEN

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	–	.		.				
	Humboldt	–	.		.				
	Mendocino	–	.		.				
CENTRAL	Sonoma	–							
	Marin	–	.		.				
	San Francisco	–	.		.				
	San Mateo	–	.		.			.	
	Santa Cruz	–	.		.			.	
	Monterey	–	.		.			.	
	San Luis Obispo	–	.		.				
SOUTH	Santa Barbara	–	.		.			.	
	Ventura	–	.		.			.	
	Los Angeles	–	.		.				
	Orange	–	.		.				
	San Diego		.	2 610 000	.	2 466 000	1	77.68	
	STATE TOTAL		.		.	3 174 520		.	

Crop CARNATIONS (All) Units Blooms

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	–	.		.				
	Mendocino	–	.		.				
CENTRAL	Sonoma	–							
	Marin	–	.		.				
	San Francisco	–	.		.				
	San Mateo	3 100 000	.	71 300 000	.063	4 492 000	2	24.54	
	Santa Cruz	2 280 800	.		.	3 299 000	3	18.02	
	Monterey	–	.		.			.	
	San Luis Obispo	–	.		.				
SOUTH	Santa Barbara		.		.	713 000		3.89	
	Ventura		.		.				
	Los Angeles	–	.		.				
	Orange	–	.		.				
	San Diego		.	72 787	.	4 782 000	1	26.12	
	STATE TOTAL		.		.	18 304 986		72.57	

Crop CRYSANTHEMUMS (All) Units Blooms

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	—	.		.				
	Humboldt	—	.		.				
	Mendocino	—	.		.				
CENTRAL	Sonoma	—							
	Marin	—	.		.				
	San Francisco	—	.		.				
	San Mateo	4 639 000	.		.	2 600 000	2	18.06	
	Santa Cruz	—	.		.			.	
	Monterey	—	.		.			.	
	San Luis Obispo	—	.		.				
SOUTH	Santa Barbara		.		.	600 000		4.17	
	Ventura		.		.				
	Los Angeles	3 005 640	.		.	992 000	3	6.89	
	Orange		.		.				
	San Diego		.		.				
	STATE TOTAL		.		.	14 394 075		29.12	

Crop ROSES Units Blooms

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte	–	.		.				
	Humboldt	–	.		.				
	Mendocino	–	.		.				
CENTRAL	Sonoma	–							
	Marin	–	.		.				
	San Francisco	–	.		.				
	San Mateo		.		.	1 398 000	3	12.72	
	Santa Cruz	334 000	.	5 908 500	.	460 845	5	4.19	
	Monterey	–	.		.			.	
	San Luis Obispo	–	.		.				
SOUTH	Santa Barbara	–	.		.			.	
	Ventura	–	.		.				
	Los Angeles	–	.		.				
	Orange	–	.		.				
	San Diego	–	.		.				
	STATE TOTAL		.		.	10 988 945		16.91	

Crop .....NURSERY PRODUCTS..... Units .....

15 Coastal Counties

	COUNTIES	Acres Harvested	Yield (Production) Units per Acre	Yield (Production) Total Units	Value Per Unit	Value Total	State Rank	% of Total State Acres	% of Total State Value
NORTH	Del Norte		.		.	1 718 000		1.39	
	Humboldt		.		.	320 973		0.26	
	Mendocino		.		.	199 000		0.16	
CENTRAL	Sonoma					842 800		0.68	
	Marin		.		.	142 100		0.11	
	San Francisco		.		.	283 000		0.23	
	San Mateo		.		.	10 005 000	3	8.07	
	Santa Cruz		.		.	2 535 000		2.05	
	Monterey		.		.	(UNPUBLISHED)		.	
	San Luis Obispo		.		.	94 000		0.08	
SOUTH	Santa Barbara		.		.	2 559 000		2.07	
	Ventura		.		.	2 667 800		2.15	
	Los Angeles		.		.	35 091 000	1	28.33	
	Orange		.		.	15 122 400	2	12.21	
	San Diego		.		.	5 816 000	6	4.70	
	STATE TOTAL		.		.	123 837 430		65.16	

PART 2

PESTICIDES IN THE COASTAL ZONE

by

GORDON F. SNOW, Ph.D[1]

HISTORY AND BACKGROUND

The word "pesticide" is a general classification which includes various agents used to control, eradicate, or mitigate the effects of organisms having an unwanted effect on man's endeavors and is an all inclusive term. Contained within the concept of pesticide are the insecticides, fungicides, bactericides, herbicides, miticides, rodenticides and any other number of subdivisions that might be applicable to specific pest.

A pest is defined in the Agricultural Code as "any of the following things that is, or is liable to be, dangerous or detrimental to the agricultural industry of the state:

"(a) Any infectious, transmissible, or contagious disease of any plant, or any disorder of any plant which manifests symptoms or behavior which the director, after investigation and hearing, finds and determines is characteristic of an infectious, transmissible, or contagious disease,

"(b) Any form of animal life,

"(c) Any form of vegetable life."

There are many different species of pests in the world. Such organisms as bacteria, fungi, nematodes, insects, viruses, and any other living thing can be called a pest, depending upon who is observing it and what effect it may be having on some other organism. For example, insect pests cause

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several different types of major injury to, or interference with, man's activity. These include damage to domestic animals, crops, structures, recreational areas, stored products, as well as being vectors of plant and animal pathogens, human diseases, and contributing to the contamination and adulteration of human food. It has been estimated that loss to agriculture from insect damage may be in the area of four billion dollars per year in the United States. Even under the most favorable circumstances, a loss to agriculture of this magnitude is inordinately high. It is predictable that the use of pesticides will continue into the foreseeable future. As the demand for food, fiber, wood products, and other natural materials rise concomitantly with a growing population, any rejection of chemical pesticides as a tool of production will automatically result in increased prices and very likely a shortage of the product involved. Some evolution in the methods of application and the formulation of materials may occur, but outright bans cannot be seriously contemplated without fatally compromising American agriculture's ability to produce enough food for its own people. Despite the inadequacies and criticism associated with chemical control, it nevertheless remains the bulwark of insect control work and will continue to do so in the future.

A pesticide generally falls into a broad chemical class of organic or inorganic, depending upon its composition. All materials termed "organic" contain carbon, hydrogen, and oxygen. The materials containing these elements are "hydrocarbons" and are classified as organic compounds. The organic materials may be further subdivided and categorized according to their composition, and it is on this basis that we have terms such as chlorinated hydrocarbons, which are merely materials containing carbon, hydrogen, oxygen and chlorine; organophosphates which contain carbon, hydrogen, oxygen and

phosphorus; and the carbamates which, again, are a different class containing carbon, hydrogen, oxygen and sometimes sulfur, mercury, or other materials.

The use of pesticides is as old as the pursuit of agriculture itself. The first written records concerning pesticides are probably to be found in a letter from Pliny, who reported circa 470 B.C. that amurca of olives should be sprinkled on plants to prevent attacks by blight. Amurca of olives is the cake left after pressing the oil from olives, and probably this material contained some residual olive oil. The use of vegetable oils as fungicides for powdery mildew was rediscovered some 2,400 years later. While this may have been the first written record of the use of an organic compound to prevent or control diseases of plants, it probably is not the first instance of the use of an organic pesticide. Practically all the materials used by ancient peoples to ward off plagues of pestilence, insects, and diseases were organic in nature.

During the late 1700's an infusion of walnut leaves was used to control canker worms in trees, aphids, and ringworm in humans. The material has been shown to be a good fungicide whose active ingredient is 5-hydroxy, 1,4-naphthaquinone. This is related to tetrachloroquinone, a popular seed treatment sold as Spergon.

As early as 200 B.C. burning sulfur was used as a bactericide and fungicide. Inorganics were, therefore, used as well as organics. Sodium chloride, which is common table salt, was used in the 1700's to make a brine in which wheat seed was soaked to prevent the occurrence of wheat smut disease.

Both sulfur and copper were so commonly used in the early civilizations that their pesticidal properties could not have been missed. Both of these materials have been discovered and rediscovered many times. Lime-sulfur

has been used with good effect as a sheep dip, as a dormant wash for San Jose scale in California, and on apple foliage for the prevention of scab. Copper sulphate, and its pesticidal properties have been discovered many times; its most notable use being as a component of the Bordeaux mixtures in the treatment of downy mildew in grapes.

However, it wasn't until about 25 years ago that the expansion of organic chemical research began to make itself felt in the field of pesticides. During the period between the two World Wars the number of common pesticides was severely limited. The selection was restricted to such things as nicotine, Paris green, calcium arsenate, lead arsenate, pyrethrum, and some of the oils. With the industrial chemical expansion following World War II, and the tremendous success which accompanied the use of DDT during World War II as an insecticide which was harmless to humans but had a wide spectrum of insect targets, the age of organic pesticides was initiated.

The chlorinated hydrocarbons as a group are noted for their fairly long residual effectiveness, which, depending upon the compound and physical conditions, may range from several days to several weeks or longer. This longevity itself is unstable since varying conditions play an important part in the resistance to degradation. Photolytic and oxidative processes are extremely important to the degradation of materials in this class.

The organophosphates, while much more toxic to warmblooded animals than the chlorinated hydrocarbons, nevertheless have a relatively short life expectancy. They break down rapidly following application. Their expected useful life ranges from a few hours to a few days or weeks at the most. The carbamates are cholinesterase inhibitors like the organo-

phosphates but they are not as toxic to humans. They also degrade rapidly under normal conditions.

Inorganic materials depending on heavy metal constitutents for their pesticidal action may undergo some degradation, but the metal ingredient remains in place for years, and may, therefore, create a problem to subsequent land uses. Like any other human activity, the use of pesticides is only as dangerous or as safe as people may make it.

Pesticides account for about one percent of the total U. S. chemical production. Of the pesticides produced, agriculture uses approximately 45 percent, on crops, government agencies about five percent, while industrial and home use account for the rest.[1] Although there is little doubt that surface runoff from agriculture lands may account for a portion of the pesticide contamination of surface waters, industries and urban developments with their discharges of waste through primary and secondary treatment plants is considered a much more significant source of pesticide in these waters than agriculture.

There are several alternatives to chemically synthesized pesticides which have been prominently mentioned. Among these are biological control, "natural" materials such as nicotine and pyrethrum, "natural balance", etc. It is pertinent to the discussion to note that within the last 80 years there have been imported into the United States some 520 predatory insects, for which hopes were held that they would be able to establish themselves and decimate an indigent pest. Of this number, 405 failed to establish themselves in the United States.[2]

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[1] Environmental Quality. The First Annual Report of the Council on Environmental Quality. Aug. 1970.

[2] Irving, George W., Jr. 1970. Agricultural Pest Control and the Environment. Science 168:1419--1424.

Of those which survived the transition, most were relatively unsuccessful in performing as had been hoped, while only about 20 have become fairly good predators of the pests for which they were imported. There are also a few examples where the predator imported became more of a pest than the species it was hoped to control. The uncontrolled activity of the predator either through the elimination or reduction of the pest and a shift in predation to a new and desirable species or the possible shift preceding the elimination of the target species is not uncommon. For example, the mongoose was imported into Hawaii to rid the Islands of rats and snakes, but it also became the chief predator of game birds in that area. Predators are usually versatile and this character is quite often overlooked. Although there is considerable literature, discussion and study devoted to biological control and the maintenance of the natural balance, it would appear from these results that while the employment of natural predators may be quite effective under certain conditions and circumstances, biological control per se must be viewed as an augmentive method rather than a primary control technique.

Although considerable discussion is taking place about the need for integrated programs of pest control, it should be recognized that every conceivable device, method, and technique has been employed to escape, inhibit, or prevent the inroads made by a pest on a particular crop. Chemicals came into use to supplement the efforts being made because other methods of pest prevention, inhibition, or control were inadequate. The tremendous increase in use of the highly effective organic pesticides after World War II was a direct result of the deficiencies in previous methods. Despite the best efforts of one of the most highly developed and technologically sophisticated agricultural systems in the world, the United

States still suffers a loss of over seven percent in productivity to diseases alone. This amounts to something over three billion dollars annually.

TYPES AND USES OF PESTICIDES

Of the pesticides manufactured and employed, approximately 86 percent are insecticides, while the remaining 14 percent are variously distributed through the other types of pesticides. The chlorinated hydrocarbon pesticides, which include DDT, aldrin, dieldrin, BHC, toxaphene, etc., are among the most widely known, but there is a fundamental difference between the organic and the inorganic insecticides. The inorganics contain such toxic elements as lead, arsenic, selenium, and mercury which do not decompose, and once applied to the soil they remain forever unless leached away by water. Most of them are only slightly, if at all, soluble in water, therefore, they tend to remain where applied.

In comparison with the inorganics, the organics break down relatively easily and disappear. Provided enough time and the proper conditions, even the most toxic or persistent of the organic compounds can be oxidized to end products of carbon dioxide and water.

Since the organics are subject to decomposition, it is evident that a rate of degradation of these compounds can be established for varying conditions. In contrast to the situation where yearly application of a stable inorganic insecticide to the soil causes the concentration of the material to increase each year, the organic insecticides decompose at a rate which, for any given compound applied at a constant rate, will reach an equilibrium concentration state. Once this level is reached, it makes no difference how many years their application is continued. The rate of

application will be equalled by the rate of decomposition. It is obvious that if the application is stopped, then the original insecticide will continue to decompose and disappear from the soil over a determinable period of time.

The factors working to decompose the organic insecticides are several. Oxygen, combined with the catalytic action of sunlight, is a very powerful oxidizing agent. Also, as temperature increases the rate of the oxidative process doubles approximately with each ten degree centigrade rise in the temperature. On the other hand, materials that are held in darkness and under anaerobic conditions may be expected to last considerably longer.

Hydrolysis (reaction with water) is increased by either high or low pH. The phosphate insecticides, as well as some of the hydrocarbons, are particularly subject to this reaction. Iron compounds have a very marked catalytic activity, particularly against the chlorinated hydrocarbons, which makes the investigation of pesticide reactions in the soil extremely difficult because of the high iron content in many soils.

Because of the interference with the normal use of surface waters caused by the general increased public awareness of pesticides and their potential as water contaminants, surveillance activities designed to detect water pollution by these materials were begun by the Public Health Service as early as 1956. A 1968 report by the California Department of Water Resources [1] indicates that DDT and other chlorinated hydrocarbons of similar solubility are not found to any significant extent in agricultural drain waters. This conclusion was reached following an extensive investigation in the Fresno County area. Since large amounts of chlorinated

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[1] The Fate of Pesticides Applied to Irrigated Agricultural Land. State of California, Department of Water Resources. Bulletin #174-1. May 1968.

hydrocarbon pesticides have been historically used in the area, it is reasonable to assume that if the materials cannot be found in drainage waters from that area there is little likelihood that they are contaminating to any significant degree those waters in the Coastal Zone which drain predominantly agriculture areas. However, the more soluble chlorinated hydrocarbons, such as lindane and toxaphene, may be expected to move in water from the point of application.

Inorganic insecticides include such materials as lead and calcium arsenate, and have been used for many years by agriculturists.

Table 1. Inorganic Pesticides

Mercuric Chloride H_gCl_2	Paris Green $3CU(A_sO_2)_2$
Selenium Compounds $(KNH_4S)_5Se$	Lead Arsenate $PbHA_sO_4$
Na_2SeO_4	Calcium Arsenate $Ca_3(A_sO_4)_2$
Lime Sulfur $Ca\ S_x$	

The arsenicals (lead arsenate, calcium arsenate) have been used as insecticides for some 200 years. Both lead and arsenic accumulate readily in soils. Finer textured soils apparently tend to accumulate larger amounts than other soil types. Arsenic concentrations tend to occur to the depths at which the soil has been plowed, but rarely do they penetrate deeper into the soil.

The most common insecticide residues in soil are the chlorinated hydrocarbons. Edwards [1] has reported that after one year he was able to find 26 percent of aldrin, 45 percent heptachlor, 55 percent chlordane

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[1] Edwards, C. A., 1964. Factors Affecting the Persistence of Insecticides in Soil. Soil and Fert. 27: 451-454.

and 60 percent lindane, 75 percent dieldrin, and 80 percent DDT in the soil. After three years these concentrations had diminished to approximately five percent for aldrin, 10 percent for heptachlor, 15 percent chlordane, 40 percent dieldrin, and 50 percent DDT, although the values did vary considerably. DDT, for example, ranged from 26 percent to 78 percent after three years.

Edwards stated that the organophosphate insecticides broke down so rapidly that measurable quantities existed in soil for only days or weeks, and rarely months, following applications.

Soil organic matter is considered a major factor influencing the persistence of many pesticides in the soils. The process accompanying persistence is largely a physical one of adsorption rather than chemical reactions. Among the organic pesticides the adsorption quality is enhanced by the one, two, or three chlorine substitution on the phenyl ring. It seems apparent that a strong inverse correlation exists between adsorption and solubility.

The ultimate fates of pesticides applied on or near the soil surface are largely unpredictable depending as they do upon the material applied, the composition of the soil, irrigation practices or rainfall, water movement, etc., all of which contribute to the distribution of pesticides, both above and below the soil surface. The potential for contamination of water supplies depends largely upon solubility, adsorbability, location of the pesticide in the soil or on the soil.

Although most chemicals are soluble to some degree with water, many of the organic compounds are notable exceptions to this rule. For example, DDT has a solubility of only 1.2 parts per million in water. The classic pathway for any material moving in a water system is through five basic

steps. First, it would be applied to the soil surface. Second, it would enter the zone of aeration (the zone between the soil surface and the water table). Third, the zone of saturation (the zone of ground water movement to a stream). Fourth, a stream course, and fifth, the open sea. The number of cases where a contaminant may move through the first four of these and end up in the ocean are limited indeed. The distances travelled by pesticides, both above and below ground level, vary by several orders of magnitude, according to the variations in hydrogeologic conditions. Unfortunately, predictions are not easily made concerning the relative harmful or harmless situations where pesticides may enter a water system. Because of this inability to make such predictions, the applicability and enforcement of regulations concerning these situations may be open to criticism.

Before any pesticide can be sold or applied in California it must be registered with the State Department of Agriculture. At the present time there are over 14,000 pesticide formulations registered for use in California. Fortunately, from the enforcement standpoint, only approximately 800 of these are regularly used. The Agricultural Code recognizes the hazardous nature of certain injurious materials and requires the Department of Agriculture to establish rules and regulations governing their use in the State. The Department of Agriculture has established detailed regulations for the use of many materials, including such chemicals as:

1. Calcium arsenate
2. Standard lead arsenate
3. Copper acetoarsenite (Paris green)
4. Tetraethyl pyrophosphate (TEPP)
5. O,O-Diethyl O-para-nitrophenyl thiophosphate (parathion)

6. O,O-Dimethyl O-para-nitrophenyl phiophosphate (methyl parathion)
7. O-ethyl O-para-nitrophenyl thionobenzenephosphonate (EPN)
8. Octamethyl pyrophosphoramide (OMPA)
9. O,O-diethyl O-2(ethylmercapto)-ethyl thiophosphate (demeton) (Systox)
10. 2-Caromethoxy, 1, methylvinyl dimethyl phosphate (Phosdrin)
11. O,O-Diethyl S-(ethylthiomethyl) phosphorodithioate (Thimet)
12. O,O-Diethyl S-2-(ethylthio)phosphorodithioate (Di-Syston)
13. Chloropicrin
14. Dimethyl Phosphate of 3-Hydroxy, N,N-Dimethyl-Cis - Crotonamide (Bidrin)
15. Dimethyl phosphate of 3-Hydroxy-N-methyl-Cis - Crotonamide (Azodrin)

Pesticides are important for some uses which are only indirectly, if at all, related to agriculture. Herbicides are widely used to reduce the labor required for roadside maintenance, where they are used to sterilize soil under and near guardrails, signposts and bridges throughout the State highway system as well as for weed killers. There have been reported 16 different types of herbicides used to maintain fire control strips throughout California. Moth proofing carpets, clothing, blankets, etc., is widely practiced in the urban community. Rat poisons, termite eradication and hundreds of other applications are of daily occurrence.

The use of pesticides is of deep concern to conservationists because of the hazard they may present to fish and wildlife. The hazard caused by direct exposure to the chemical itself is believed to be relatively small. The indirect effects can be found although they are more difficult to precisely appraise. These indirect effects include: (1) interference with food chains, such as the removal of food sources by the killing action of pesticides; (2) the faunal displacement that occurs when one species is reduced by chemical control resulting in the increase of another less

abundant species to the extent that it becomes a pest; (3) the alteration of a chemical to a different, more toxic substance; (4) the reduction in reproductive potential resulting from consumption of small amounts of a toxicant.

PRESENT USES

California leads the nation by a wide margin in the production of fruits and vegetables. With more than 140 crops being produced in commercial volume, no one of them dominates the State's agricultural economy. When the horticultural specialty crops are included, the total number exceeds 200.

The hazards of pesticide use are fully recognized. Effective laws have been promulgated to assure that food and other agricultural products are not only safe for California consumers, but will comply with the strictest standards of any foreign or domestic authority. To assure the effectiveness of pesticide laws, the California Department of Agriculture is assisted by the county agricultural commissioners and their staffs in the various counties. The total number of agricultural law enforcement officers in the 13 coast counties alone amounts to 278. They have an intimate knowledge of almost every farm and the pesticides used on it in their counties and provide California with unmatched agricultural law enforcement.

The pesticide regulatory program of the State consists basically of four parts: (1) regulation of the composition and the labeling of individual pesticide products; (2) licensing business firms and aircraft pilots applying pesticides; (3) regulating the use of hazardous materials through a permit

system; and (4) testing fruits, vegetables and other produce for pesticide residues.

Each pesticide offered for sale in California must be registered with the Department of Agriculture. Before it can be registered, the manufacturer must submit extensive detailed information regarding the material in order to establish the effectiveness of the product against the pests to be controlled as well as information concerning acute and chronic toxicity and any other hazards which may be associated with the product. A hazard might include possible injury to the applicator, to the crops, livestock or honeybees. Often special attention is given to the protection of wildlife and fish. In preparing the required information, manufacturers often spend more than $3,000,000 testing the material, developing data and submitting summaries which may, in themselves, consist of several thousand pages of information.

There is a simultaneous evaluation of the information by the Federal authorities and the staff of the California Department of Agriculture. There is an exchange of information between these agencies. While the State Department of Agriculture ordinarily accepts the tolerances and evaluation of the material accorded it by the Federal authorities, there is no requirement that it do so. Registration by the State may be refused, after hearing, on the basis that a product is of little or no value for the purpose for which it is intended, or is detrimental to vegetation (except weeds), to domestic animals, or to the public health and safety even though it may be properly used. Registration, of course, may also be refused where false or misleading statements are made or implied.

Each agricultural pest control operator is required to be licensed by the Department of Agriculture in order to engage in the application of

pesticides for hire. He must also register with the county agricultural commissioner in the county where he will be doing business. If the pest control operator or an aircraft pilot does not comply with the regulations, he is subject to prosecution on a misdemeanor charge or his license may be suspended or revoked. As previously mentioned, injurious materials may only be used under permit from the county agricultural commissioner.

To assure that food, milk, hay and other products in trade channels are free of excessive pesticide residues, the State Department of Agriculture maintains a sampling procedure designed to detect any instances where tolerances are exceeded. The tolerances for pesticide residues are established by the authority of the Agricultural Code and are basically the same as those established under Federal law. The tolerances were set in such a manner that a safety factor is provided so that there will be no hazard even if the food is accidentally contaminated with a pesticide at several times the established tolerance.

PESTICIDES IN THE COASTAL ZONE

The reports of pesticide use in the Coastal Area are restricted to those materials used in crop production or urban pest control. No significant reports of animal pesticides are included.

The amounts of pesticide, types, crops on which used, and the area in which they are applied in the coastal zone are itemized in appendices relating to pesticide use data compiled in November, 1970. This material represents an approximate eleven-month use report for pesticides in the areas designated in the map supplement as being between the dark line and the coast. The designated areas represent, insofar as possible, the zones

of pesticidal application corresponding to agricultural development.

Table 2. 1970 Pesticide Use in the Coastal Zone

California Department of Agriculture

Chemical	Commodity
Carbaryl	Potatoes
2,4-D	Weeds
2,4,5-T	Brush
Copper oxychlor sulfate	Potatoes
Sinox	Alfalfa hay
Amitrole	Fallow land
Simazine	Fallow land
Polyram	Potatoes
2,4,5-T	Brush berries
Dicamba	Turf
2,4-D	Turf
2,4-D	Bushberries
Amitrole	Roadside
Monuron	Roadside
Dalapon	Pasture
Petroleum solvents	Pasture
2,4-D	Clover
2,4-D	Oats
Endosulfan	Artichokes
Parathion	Artichokes
Di-syston	Brussels sprouts
Guthion	Brussels sprouts
Parathion	Brussels sprouts

Chemical	Commodity
Systox	Brussels sprouts
Telone	Fallow land
D-D Mixture	Fallow land
Dylox	Brussels sprouts
Meta-systox-r	Brussels sprouts
Phosdrin	Brussels sprouts
DDT	Brussels sprouts
Methlybromide	Brussels sprouts
Trifluralin	Brussels sprouts
CDEC	Brussels sprouts
Maneb	Brussels sprouts
Zinc Sulphate	Brussels sprouts
Guthion	Carrots
Chlordane	Brussels sprouts
Phosdrin	Brussel sprouts
Sulfur	Peas
Diazinon	Strawberries
Endosulfate	Strawberries
Naled	Strawberries
Eptam	Dry beans
Malathion	Onions
Maneb	Onions
Sulfur	Onions
Captan	Strawberries
Dimethoate	Nursery plantings
Maneb	Nursery plantings
Petroleum solvents	Strawberries

Chemical	Commodity
Phosdrin	Nursery plantings
Sinox	Strawberries
Trifluralin	Dry beans
Zineb	Nursery plantings
BTB	Strawberries
Chloropicrin	Fallow land
DDD	Nursery plantings
Lime Sulfur	Bush berries
Sulfur	Strawberries
TEPP	Strawberries
Balan	Fallow land
Chloropicrin	Strawberries
Carbaryl	Strawberries
DNBP	Weeds
Endosulfan	Lettuce
Melathion	Lettuce
Parathion	Lettuce
Phosdrin	Lettuce
Thiram	Strawberries
Toxaphene	Celery
Zineb	Lettuce
Copperoleate-Abieta	Celery
Copperoxychloride	Broccoli
Dacthal	Cauliflower
DDT	Broccoli
Diazinon	Celery

Chemical	Commodity
Diazion	Lettuce
DNBP	Weeds
Endosulfan	Broccoli
Endosulfan	Celery
Malathion	Celery
Maneb	Broccoli
Maneb	Celery
Metaldehyde	Artichokes
Metasystox-R	Broccoli
Methyl parathion	Artichokes
Parathion	Broccoli
Parathion	Celery
Perthane	Celery
Petroleum solvents	Celery
Phorate	Lettuce
Phosdrin	Broccoli, bush berries, cauliflower, lettuce, nursery plantings, and strawberries
Sulfur	Broccoli
Systox	Broccoli
Tepp	Strawberries
Tok-E-25	Broccoli, cauliflower, celery
Toxaphene	Broccoli
Aldrin	Lettuce
Botran	Lettuce
Diazanon	Lettuce
Dieldrin	Lettuce

Chemical	Commodity
Dimethylate	Lettuce
Endosulfan	Lettuce
Methyl parathion	Lettuce
Paraquat	Fallow land
Parathion	Lettuce
Perthane	Lettuce
Phorate	Lettuce
Phosdrin	Lettuce
Sulfur	Lettuce
Summer oils	Lettuce
Tok-E-25	Celery
Toxaphene	Lettuce, strawberries
Trifluralin	Lettuce
Zineb	Lettuce
Copper	Lettuce
Endosulfan	Celery, lettuce
Malathion	Celery, lettuce
Methyl parathion	Celery, lettuce, tomatoes
Parathion	Tomatoes
Trifluralin	Cabbage
Zinc sulfate	Celery
Diazinon	Lettuce
Endosulfan	Lettuce
Iron	Lettuce
Miscellaneous minor elements	Lettuce
CIPC	Lettuce
Carbaryl	Apples

Chemical	Commodity
DDT	Cabbage
Dimethylate	Cabbage
Endosulfan	Cabbage
DNBP-amine salts	Fallow land
Maneb	Cabbage
Metasystox-R	Cabbage
Methomyl	Cabbage
Sulfur	Cabbage
Systox	Cabbage
Jordon	Cabbage
Toxaphene	Cabbage
Trifluralin	Cabbage
Zinc sulfate	Cabbage
BTB	Cauliflower
Dacthal	Cauliflower
Diazinon	Cauliflower
Endosulfan	Artichokes
Endosulfan	Cauliflower
Parathion	Cabbage
Phosdrin	Brussels sprouts, cauliflower, squash
Systox	Brussels sprouts, cauliflower
Tok-E-25	Cauliflower, Broccoli
Toxaphene	Brussels sprouts, cabbage, cauliflower
Trifluralin	Cabbage
DDT	Cauliflower
DNBP	Weeds

Chemical	Commodity
Endosulfan	Cauliflower
BTB	Cabbage
Dacthal	Cauliflower, onions
Diazanon	Radishes
Endothal	Beets
Molasses	Lettuce
Kerb	Artichokes
Chlordane	Celery
Dylox bait	Lettuce
Prometryne	Celery
Calcium nitrate	Celery
Sugar	Celery
Sugar	Lettuce
Tenoran	Onions
Oil of vitriol	Onions
DD mixture	Onions
Dacthal	Onions
Parathion	Peas, Bartlett pears
Sulfur	Peas, Bartlett pears
Toxaphene	Peas, Bartlett pears
Endosulfan	Peas
Parathion	Peas
Sulfur	Peas
Toxaphene	Peas
MCPA	Garbanzo beans
2,4-D	Sedan grass

Chemical	Commodity
Disyston	Miscellaneous temper trees
Diazanon	Walnuts
Copper sulfa-pentha	Celery
Dicamba	Oats
Systox	Almonds
Endosulfan	Almonds
Zinc	Almonds
Zinc	Celery
Kelthane	Bushberries
Copper	Celery
DNBP	Cabbage
Kelthane	Strawberries
Phosdrin	Peas
Methylparathion	Endive
Parathion	Endive
CDEC	Cabbage
Endosulfan	Napa cabbage
Kelthane	Bushberries
Zineb	Napa cabbage
Tok-E-25	Almonds
Copper	Cabbage, celery
Zinc	Almonds, celery
BTB	Peppers, bell
Captan	Spinach Cabareal
Copper sulfa pentha	Spinach
Dimethylate	Peppers, bell

Chemical	Commodity
Dyrene	Celery
Endosulfan	Peppers, bell, spinach
Naled	Spinach
Paraquat	Peppers, bell
Parathion	Beans, dry, spinach
Phosdrin	Spinach
Prometryne	Celery
Toxaphene	Beans, green lima, celery
Diazinon	Peppers, bell, spinach, tomatoes
Methomyl	Tomatoes
Ethyl parathion	Spinach
Parathion	Tomatoes, spinach
Phosdrin	Peppers, bell
Ro-neet	Spinach
Telone	Tomatoes
Systox	Cabbage
Tok-E-25	Parsley
Ramite	Miscellaneous timber
Bromacil	Fallow land
Phosdrin	Spinach
Endosulfan	Peppers, chili
Metasystox-R	Peppers, chili
Parathion	Citrus
IPC	Lettuce
Summer oils	Lemons
Fenac	Wheat

Chemical	Commodity
Hyvar (Bromacil)	Wheat
Diphenamid	Fallow land
PPCP	Lemons
EDB	Fallow land
Karathane	Cucumbers
Parathion	Cucumbers
Phosdrin	Collards
Calcium hydroxide	Ornamental plants
Carbaryl	Miscellaneous timber
Diazanon	Olives, ornamental, sugar pine
Dieldrin	Nursery plantings
Morestan	Nursery ornamentals
Petroleum solvents	Avocados, lemons
Petroleum solvents	Oranges
Simazine	Lemons
Chlorabenzilate	Lemons
Chloropicrin	Nurseries
Diazinon	Nurseries
Diuron	Lemons
2,4-D	Avocados, Lemons
Phosphorus pentoxide	Lemons
Zinc	Lemons
Copper	Lemons
Planavin	Fallow land
Calcium hudroxide	Lemons
Copper sulfa penta	Lemons

Chemical	Commodity
Copper sulfate-basic	Lemons
Hydrated lime	Lemons
Paraquat	Lemons
Petroleum solvents	Lemons
2,4-D	Lemons
Copper oxychloride	Avocados
Paraquat	Lemons
Petroleum solvents	Avocados
Simazine	Avocados
2,4,5-T	Avocados
Oretenone	Lemons
Lead arsenate-standard	Turf
Mataldehyde	Lemons
Tetradifon	Nurseries
Pentac	Timbers
Kelthane	Plums
Malathion	Plums
Borax	Celery
DPP	Potatoes, carrots
2,4-D	Corn
Gibberellic acid	Celery
Phosphorus pentoxide	Lemons
Fundal	Timber trees, misc.
Linuron	Carrots
Methoxychlor	Carrots
Phosphamidon	Potatoes
Lindane	Broccoli

Chemical	Commodity
Nabam	Celery, lettuce
Plamapim	Broccoli
Thian	Lettuce, magnesium lettuce

Table 3. Crops Treated With Pesticides in the Coastal Area, 1970

Field & Vegetable Crops		Tree Crops
Artichoke	Oats	Almond
Bean, Dry	Onion	Apple
Bean, Garbanzo	Pasture	Avocado
Bean, Lima	Peas	Lemon
Beet	Pepper	Olive
Broccoli	Potato	Orange
Brussels sprouts	Parsley	Pear
Bushberries	Radish	Plum
Cabbage	Strawberry	Walnut
Carrot	Squash	
Cauliflower	Tomato	
Celery	Turf	
Clover	Spinach	
Corn	Nursery Plantings	
Cucumber	Endive	
Fallow land	Roadside - weeds	
Lettuce		

Table 4. Pesticides Applied in the Coastal Area, 1970

Insecticides/ Acaricides	Herbicides	Fungicides	Nematocides
Aldrin	Amitrole	Botran	Chloropecrin
Aramite	Balan	Captan	D-D mixture
Carbaryl (Sevin)	Borax	Coppers*	Ethylene dibromide (EDB)
Chlordane	Bromacil	Dyrene	Methyl bromide
Chlorobenzilate	CDEC	Karathane	Telone
DDD	CIPC	Lime sulfur	
DDT	Dacthal	Maneb	
Diazinon	Dalapon	Nabam	
Dimethoate	Dicamba	Polyram	
Dieldrin	Diuron	Thiram	
Di-Syston	DNBP	Zineb	
Dylox	Eptam	Zinc Sulfate	
Endosulfan	Fenac	Sulfur	
Fundal	IPC		
Guthion	Linuron		
Kelthane	MCPA		
Lead Arsenate	Monuron		
Malathion	Morstan		
Metaldehyde	Paraquat		
Methomyl	PCP		
Naled	Planavin		
Parathion	Prometryne		
Perthane	"Ro-Neet"		
Phorate	Simazine		

Insecticides/ Acaricides	Herbicides	Fungicides	Nematocides
Phosdrin	Sinox		
Rotenone	Tenoran		
Systox (meta-systox)	TOK E-25		
TEPP	Trifluralin		
Tetradiphon	2,4-D		
Toxaphene	2,4,5-T		

* Basic copper sulfate and chlorides, copper oleate.

Based on pesticide use reports, the principal crop-growing areas in the coastal zone are to be found between Soquel and Castroville in the Monterey Bay area, Atascadero, Arroyo Grande, Guadalupe-Nipomo, Lompoc, the Oxnard plain, and Cardiff-by-the-Sea. The principal area of crop production is south of San Francisco. North of San Francisco livestock and forest products dominate the agricultural and economic scene. This is reflected in the variety and amounts of pesticides reported to be used in the coastal area. A considerable portion of the pesticide use in the coastal zone occurred in the urban areas as structural pest control operations, residential pest exterminations, and as part of industrial or commercial undertakings. Although no report of industrial use of pesticides is available, it is estimated that, on a national basis, urban home and industrial use of pesticides accounts for almost fifty percent of the total manufactured and sold in the United States.

Although significant research steps are being taken to reduce the amounts of pesticides required and used in all segments of pest control,

there is no technological breakthrough in evidence which will delete the need for chemical pesticides in the foreseeable future. Therefore, environmental planners should accommodate this circumstance in their considerations of land use projections. If agricultural activities are supplanted by urbanization the pesticide amounts used in a given area will remain fairly constant even though they may vary in type.

PESTICIDE USE DATA

STATE OF CALIFORNIA
DEPARTMENT OF AGRICULTURE

COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/03W-11 H	2,4-D	WEED		30.000	1	5.00
02N/01W-07 H	CARBARYL	POTATOES		17.500	1	7.00
02N/01W-88 H	AMITROLE	STRUCTURAL CONTROL	.190			
	BORAX AND BORIC ACID		146.640			
	DIELDRIN		.094			
	DIURON		2.000			
	MALEIC HYDRAZIDE		115.971			
	MONURON		46.800			
	SIMAZINE		2.800			
02N/01W-99 H	BROMACIL	RESIDENTIAL CONTR.	172.800			
	2,4-D		220.000			
	2,4,5-T		236.000			
02N/01W-08 H	CARBARYL	POTATOES		120.000	1	60.00
02N/01W-14 H	CARBARYL	POTATOES		19.875	1	10.00
02N/02W-01 H	CARBARYL	POTATOES		15.000	1	6.00
	2,4-D	PASTURE, MEADOW		25.000	2	12.00
02N/02W-03 H	2,4-D	PASTURE, MEADOW		4.000	1	5.00
02N/02W-04 H	2,4-D	PASTURE, MEADOW		3.000	1	1.00
02N/02W-88 H	DIAZINON	STRUCTURAL CONTROL	.047			
	MALEIC HYDRAZIDE		46.388			
	PCP		14.000			
03N/01W-17 H	2,4-D	FALLOWLAND		4.000	1	2.50
		PASTURE, MEADOW		55.000	1	5.50
	2,4,5-T	PASTURE, MEADOW		55.000	1	5.50
03N/01W-18 H	2,4-D	NOT REPORTED		2.500	1	5.00
03N/01W-29 H	CARBARYL	POTATOES		158.000	1	79.00
03N/01W-31 H	CARBARYL	POTATOES		50.000	1	20.00
03N/01W-32 H	COPPER OXYCHLOR SULF	POTATOES		150.000	2	100.00
03N/01W-33 H	SINOX	ALFALFA HAY		50.000	1	10.00
03N/01W-35 H	AMITROLE	FALLOWLAND		5.400	1	3.00
	SIMAZINE	FALLOWLAND		12.000	1	3.00
	2,4-D	FALLOWLAND		6.000	1	3.00
03N/01W-36 H	CARBARYL	POTATOES		50.550	2	91.00
03N/01W-88 H	CHLORDANE	STRUCTURAL CONTROL	14.439			
	DIAZINON		.203			
	DIELDRIN		.726			
03N/01W-99 H	BROMACIL	RESIDENTIAL CONTR.	163.200			
	2,4-D		160.000			
	2,4,5-T		160.000			
03N/02W-13 H	CARBARYL	POTATOES		94.000	2	47.00
	2,4-D	PASTURE, MEADOW		24.000	1	8.00
03N/02W-27 H	POLYRAM	POTATOES		210.000	1	175.00
	SPREADERS	POTATOES		13.077	1	175.00
03N/02W-34 H	2,4-D	CORN		7.000	1	7.00
03N/02W-36 H	CARBARYL	POTATOES		10.000	1	5.00
04N/01W-09 H	CARBARYL	POTATOES		20.000	1	10.00
	2,4-D	HOME GARDENS		1.123	1	.25
	2,4,5-T	BUSHBERRIES		1.335	1	.50
04N/01W-32 H	CARBARYL	POTATOES		20.000	1	10.00

COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/01W-32 H	COPPER OXYCHLOR SULF	POTATOES		24.000	1	16.00
	2,4-D	BARLEY		75.024	1	120.00
04N/01W-88 H	MALEIC HYDRAZIDE	STRUCTURAL CONTROL	135.300			
04N/01W-99 H	AMMATE	RESIDENTIAL CONTR.	210.000			
	2,4-D		20.000			
	2,4,5-T		20.000			
04N/02W-88 H	MALEIC HYDRAZIDE	STRUCTURAL CONTROL	1.546			
05N/01W-24 H	2,4-D	PASTURE, MEADOW		27.723	21	8.50
	2,4,5-T	BUSHBERRIES		2.460	2	.50
		PASTURE, MEADOW		13.641	21	8.50
05N/01W-25 H	DICAMBA	TURF		2.000	1	1.00
	2,4-D	TURF		2.000	1	1.00
05N/01W-27 H	2,4-D	BUSHBERRIES		.100	1	.10
	2,4,5-T	BUSHBERRIES		.100	1	.10
05N/01W-88 H	CHLORDANE	STRUCTURAL CONTROL	171.550			
	DDT		2.000			
	DELNAV		10.480			
	DIAZINON		19.288			
	DIELDRIN		5.969			
	ETHYLENE BROMIDE EDB		6.786			
	LINDANE		1.200			
	MALEIC HYDRAZIDE		15.463			
	PCP		121.868			
05N/01W-99 H	BROMACIL	RESIDENTIAL CONTR.	192.000			
06N/01W-01 H	2,4-D	PASTURE, MEADOW		8.002	1	14.00
06N/01W-23 H	2,4-D	CORN		1.126	1	3.00
08N/01W-88 H	CHLORDANE	STRUCTURAL CONTROL	8.000			
	DIELDRIN		.070			
	ETHYLENE BROMIDE EDB		2.121			
16N/01W-10 H	AMITROLE	ROADSIDE		8.000	1	1.00
	MONURON	ROADSIDE		1.750	1	1.00
16N/01W-11 H	DALAPON	PASTURE, MEADOW		.850	1	10.00
	2,4-D	PASTURE, MEADOW		65.335	4	23.00
	2,4,5-T	PASTURE, MEADOW		.665	1	1.00
	SPREADERS	PASTURE, MEADOW		143.700	1	10.00
16N/01W-14 H	PETROLEUM SOLVENTS	PASTURE, MEADOW		266.000	1	80.00
	2,4-D	PASTURE, MEADOW		3.264	1	80.00
16N/01W-17 H	PETROLEUM SOLVENTS	WEED		3,325.000	1	5.00
	2,4-D	WEED		1.500	1	5.00
16N/01W-20 H	AMITROLE	RESIDENTIAL CONTR.		5.000	1	1.00
	2,4-D	WEED		12.000	2	12.00
	2,4,5-T	WEED		2.000	1	8.00
16N/01W-21 H	PETROLEUM SOLVENTS	WEED		5,985.000	1	9.00
	2,4-D	WEED		45.000	1	9.00
16N/01W-88 H	CHLORDANE	STRUCTURAL CONTROL	24.846			
	DELNAV		1.980			
	DIAZINON		6.807			
	DIELDRIN		1.334			
	ETHYLENE BROMIDE EDB		.707			

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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
16N/01W-88 H	LINDANE	STRUCTURAL CONTROL	.200			
16N/02W-13 H	2,4-D	PASTURE, MEADOW		8.000	1	2.00
17N/01W-02 H	2,4-D	PASTURE, MEADOW		144.909	4	63.00
17N/01W-10 H	HEPTACHLOR	NURSERY PLANTINGS		36.480	1	20.00
17N/01W-27 H	2,4-D	PASTURE, MEADOW		31.181	1	32.00
17N/01W-29 H	AMITROLE	WEED		9.000	1	.75
	2,4-D	WEED		1.500	1	.75
18N/01W-05 H	PETROLEUM SOLVENTS	PASTURE, MEADOW		133.000	1	80.00
	2,4,5-T	PASTURE, MEADOW		10.976	1	80.00
18N/01W-08 H	2,4-D	PASTURE, MEADOW		1.392	1	5.00
	2,4,5-T	PASTURE, MEADOW		1.382	1	5.00
18N/01W-22 H	2,4-D	PASTURE, MEADOW		11.741	1	5.00
18N/01W-26 H	2,4-D	PASTURE, MEADOW		52.873	3	13.00
18N/01W-27 H	2,4-D	PASTURE, MEADOW		41.318	4	14.00
18N/01W-34 H	2,4-D	PASTURE, MEADOW		240.000	1	15.00
18N/01W-35 H	2,4-D	PASTURE, MEADOW		219.304	3	19.50
18N/01W-88 H	CHLORDANE	STRUCTURAL CONTROL	9.626			
	DIELDRIN		.125			
	ETHYLENE BROMIDE EDB		1.414			
05N/01E-88 H	AMITROLE	STRUCTURAL CONTROL	1.463			
	MALEIC HYDRAZIDE		807.932			
	SIMAZINE		52.000			
05N/01E-99 H	2,4-D	RESIDENTIAL CONTR.	32.000			
	2,4,5-T		32.000			
06N/01E-30 H	2,4-D	FALLOWLAND		22.000	1	11.00
06N/01E-88 H	CHLORDANE	STRUCTURAL CONTROL	18.439			
	DIAZINON		.639			
	DIELDRIN		1.504			
	ETHYLENE BROMIDE EDB		4.532			
	MALEIC HYDRAZIDE		92.777			
06N/01E-99 H	AMITROLE	RESIDENTIAL CONTR.	5.400			
	ATRAZINE		16.000			
	BROMACIL		154.560			
	PARAQUAT		1.500			
	2,4-D		44.000			
	2,4,5-T		44.000			
07N/01E-30 H	2,4-D	BUSHBERRIES		22.000	1	4.00
	2,4,5-T	BUSHBERRIES		22.000	1	4.00
07N/01E-88 H	CHLORDANE	STRUCTURAL CONTROL	14.440			
	DIAZINON		.563			
	DIELDRIN		.293			
07N/01E-99 H	MALEIC HYDRAZIDE	RESIDENTIAL CONTR.	6.000			
08N/01E-88 H	AMITROLE	STRUCTURAL CONTROL	4.088			
	PRAMITOL, PROMETONE		97.250			
	SIMAZINE		11.900			
	2,4-D		.365			
09N/01E-88 H	AMITROLE	STRUCTURAL CONTROL	.313			
	PRAMITOL, PROMETONE		43.088			
	SIMAZINE		2.500			

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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/01E-08 H	2,4-D	PASTURE, MEADOW		1.000	1	5.00
	2,4,5-T	PASTURE, MEADOW		1.000	1	5.00
10N/01E-88 H	AMITROLE	STRUCTURAL CONTROL	.313			
	PRAMITOL, PROMETONE		129.263			
	SIMAZINE		2.500			
11N/01E-88 H	AMITROLE	STRUCTURAL CONTROL	.575			
	DIAZINON		.031			
	PRAMITOL, PROMETONE		114.900			
	SIMAZINE		4.600			
	SPREADERS		.153			
13N/01E-04 H	AMITROLE	RESIDENTIAL CONTR.		.500	1	.10
14N/01E-33 H	AMITROLE	RESIDENTIAL CONTR.		.500	1	.10
02S/03W-36 H	PETROLEUM SOLVENTS	PASTURE, MEADOW		199.500	1	30.00
	2,4,5-T	PASTURE, MEADOW		60.000	1	30.00
05S/01E-88 H	CHLORDANE	STRUCTURAL CONTROL	24.000			
	PCP		7.705			
01N/07W-88 M	CHLORDANE	STRUCTURAL CONTROL	6.000			
	DDT		.500			
	DIELDRIN		.750			
	LINDANE		.063			
01N/07W-99 M	AMITROLE	RESIDENTIAL CONTR.	1.125			
	SIMAZINE		4.800			
01N/08W-88 M	CHLORDANE	STRUCTURAL CONTROL	15.000			
	DIAZINON		.812			
	DIELDRIN		.988			
	METALDEHYDE		8.208			
01N/08W-99 M	AMITROLE	RESIDENTIAL CONTR.	1.800			
	MALEIC HYDRAZIDE		10.800			
	NALED		.062			
	SIMAZINE		6.400			
02N/02W-03 M	2,4-D	PASTURE, MEADOW		1.950	1	2.00
02N/08W-88 M	CHLORDANE	STRUCTURAL CONTROL	5.500			
02N/08W-99 M	CARBARYL	RESIDENTIAL CONTR.	15.000			
	MALATHION		16.416			
	MALEIC HYDRAZIDE		24.000			
03N/01W-88 M	DIELDRIN	STRUCTURAL CONTROL	.093			
	ETHYLENE BROMIDE EDB		.707			
03N/09W-88 M	CHLORDANE	STRUCTURAL CONTROL	4.813			
	DIAZINON		.125			
03N/09W-99 M	MALEIC HYDRAZIDE	RESIDENTIAL CONTR.	36.000			
04N/09W-19 M	2,4-D	PASTURE, MEADOW		59.040	1	10.00
04N/10W-01 M	2,4-D	PASTURE, MEADOW		11.250	1	15.00
04N/10W-24 M	2,4-D	PASTURE, MEADOW		4.000	1	10.00
05N/01W-88 M	CHLORDANE	STRUCTURAL CONTROL	14.440			
	DIAZINON		.188			
	DIELDRIN		.803			
	ETHYLENE BROMIDE EDB		2.121			
05N/10W-21 M	2,4-D	PASTURE, MEADOW		362.000	1	181.00
05N/10W-99 M	CHLORDANE	RESIDENTIAL CONTR.	.450			

STATE OF CALIFORNIA
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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
05N/12W-99 M	CARBARYL	RESIDENTIAL CONTR.	7.750			
06N/11W-99 M	AMITROLE	RESIDENTIAL CONTR.	1.350			
	CHLORDANE		1.400			
	SIMAZINE		4.800			
07N/11W-99 M	CARBARYL	RESIDENTIAL CONTR.	37.500			
	DIAZINON		37.500			
08N/13W-88 M	CHLOROPICRIN	STRUCTURAL CONTROL	.110			
	VIKANE		16.000			
10N/15W-03 M	2,4-D	FALLOWLAND		.750	1	.75
10N/15W-11 M	2,4-D	FALLOWLAND		3.000	1	1.50
	2,4,5-T	WEED		40.000	1	10.00
14N/17W-12 M	2,4-D	PASTURE, MEADOW		20.659	1	40.00
15N/17W-99 M	MALEIC HYDRAZIDE	RESIDENTIAL CONTR.	26.100			
16N/01W-19 M	ENDRIN	NOT REPORTED		.144	1	37.00
16N/17W-99 M	AMITROLE	RESIDENTIAL CONTR.	4.950			
	CARBARYL		2.000			
	MALEIC HYDRAZIDE		51.900			
	SIMAZINE		18.400			
17N/17W-99 M	AMITROLE	RESIDENTIAL CONTR.	6.300			
	MALEIC HYDRAZIDE		32.100			
	SIMAZINE		20.800			
18N/17W-08 M	2,4-D	CLOVER		10.000	1	5.00
		OATS		2.970	1	8.00
18N/17W-18 M	2,4-D	FALLOWLAND		.989	1	.25
	2,4,5-T	FALLOWLAND		.480	1	.25
18N/17W-88 M	CHLORDANE	STRUCTURAL CONTROL	276.000			
	DIELDRIN		39.000			
18N/17W-99 M	AMITROLE	RESIDENTIAL CONTR.	4.500			
	CHLORDANE		.800			
	DIAZINON		.121			
	MALEIC HYDRAZIDE		39.900			
	SIMAZINE		17.600			
18N/18W-99 M	AMITROLE	RESIDENTIAL CONTR.	17.100			
	ANSAR 170		3.989			
	ATRAZINE		24.000			
	PRAMITOL, PROMETONE		191.500			
	SIMAZINE		12.800			
	2,4-D		6.250			
19N/17W-99 M	MALEIC HYDRAZIDE	RESIDENTIAL CONTR.	62.100			
	SIMAZINE		.800			
21N/17W-17 M	2,4,5-T	FALLOWLAND		150.000	1	50.00
01S/06W-88 M	ALDRIN	STRUCTURAL CONTROL	18.000			
	BAYGON		.094			
	CARBARYL		3.375			
	CHLORDANE		269.752			
	DDT		2.000			
	DDVP		.133			
	DIAZINON		7.625			
	DIELDRIN		6.611			

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DEPARTMENT OF AGRICULTURE

COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01S/06W-88 M	DURSBAN	STRUCTURAL CONTROL	.157			
	LINDANE		.725			
	METALDEHYDE		1.761			
	METHYL BROMIDE		3.000			
01S/06W-99 M	AMITROLE	RESIDENTIAL CONTR.	28.424			
	CARBARYL		262.250			
	CHLORDANE		42.625			
	COPPER SULFA-PENTHAH		1.520			
	COPPER SULFATE-BASIC		2.120			
	DIELDRIN		2.250			
	DIPHACIN		.006			
	DORMANT OILS		22.785			
	DURSBAN		1.908			
	ETHION		.250			
	LEAD ARSENATE -BASIC		53.200			
	LINDANE		1.800			
	MALATHION		171.302			
	MALEIC HYDRAZIDE		32.000			
	NALED		4.000			
	PETROLEUM SOLVENTS		140.116			
	SPREADERS		6.812			
01S/16W-88 M	BAYGON	STRUCTURAL CONTROL	.003			
	DIAZINON		.078			
02S/05W-88 M	AMITROLE	STRUCTURAL CONTROL	3.600			
	ANSAR 138		36.663			
	AVITROL 200		.032			
	BAYGON		87.618			
	BORAX AND BORIC ACID		.495			
	CARBARYL		13.688			
	CHLORDANE		1,733.527			
	CHLOROPICRIN		.248			
	CYANOGAS		3.045			
	DDT		47.876			
	DDVP		11.102			
	DIAZINON		630.266			
	DIELDRIN		26.457			
	DIPHACIN		.072			
	DURSBAN		60.211			
	KEPONE		.001			
	LINDANE		38.756			
	MALATHION		17.545			
	METHYL BROMIDE		98.500			
	PCP		112.203			
	PIPERONYL BUTOXIDE		6.861			
	PYRETHRINS		43.774			
	SIMAZINE		3.200			
	SODIUM FLUORIDE		499.928			
	SODIUM FLUOSILICATE		.475			
02S/05W-99 M	ALDRIN	RESIDENTIAL CONTR.	1.600			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
02S/05W-99 M	ATRAZINE	RESIDENTIAL CONTR.	160.000			
	BALAN		2.500			
	BROMACIL		349.440			
	CARBARYL		2.750			
	CHLORDANE		189.250			
	DIAZINON		1.000			
	DIELDRIN		.800			
	DIPHACIN		.018			
	DURSBAN		2.958			
	LINDANE		27.950			
	MALATHION		5.291			
	MANEB		20.000			
	2,4-D		293.333			
	2,4,5-T		.667			
02S/15W-88 M	CHLORDANE	STRUCTURAL CONTROL	12.033			
	LINDANE		1.040			
	SILICA AEROGEL		.953			
03S/06W-88 M	BAYGON	STRUCTURAL CONTROL	.123			
	CHLORDANE		24.677			
	DDT		.188			
	DIAZINON		16.002			
	DIELDRIN		1.128			
	DURSBAN		1.678			
	PCP		.771			
	PIPERONYL BUTOXIDE		.289			
	PYRETHRINS		.054			
	VIKANE		19.000			
03S/06W-99 M	AMITROLE	RESIDENTIAL CONTR.	3.375			
	ATRAZINE		13.600			
	DIPHACIN		.001			
	DIPHENAMID		5.200			
	DORMANT OILS		1,481.025			
	LINDANE		42.488			
	SIMAZINE		4.600			
	2,4-D		6.813			
03S/14W-88 M	CALCIUM ARSENATE	STRUCTURAL CONTROL	.175			
	CHLORDANE		102.571			
	HEPTACHLOR		.035			
	LINDANE		19.995			
	PCP		.679			
	SILICA AEROGEL		13.819			
04S/06W-88 M	BAYGON	STRUCTURAL CONTROL	.064			
	CHLORDANE		9.349			
	DIAZINON		2.420			
	DURSBAN		.024			
	MALATHION		.092			
	PCP		5.374			
	VIKANE		17.000			
04S/06W-99 M	CAPTAN	RESIDENTIAL CONTR.	.125			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04S/06W-99 M	CARBARYL	RESIDENTIAL CONTR.	1.000			
	CHLORDANE		3.438			
	DIAZINON		2.500			
	DORMANT OILS		.899			
	ETHION		.041			
	MALEIC HYDRAZIDE		310.000			
	MANEB		5.600			
	ZINC SULPHATE		.240			
04S/12W-88 M	BAYGON	STRUCTURAL CONTROL	.250			
	CHLORDANE		221.000			
	HEPTACHLOR		.152			
	PCP		5.609			
05S/05W-18 M	2,4-D	RANGELAND		150.000	1	75.00
	2,4,5-T	RANGELAND		150.000	1	75.00
05S/05W-88 M	CHLORDANE	STRUCTURAL CONTROL	.187			
	CHLOROPICRIN		.428			
	DIAZINON		.623			
	DURSBAN		.040			
	ETHYLENE BROMIDE EDB		.399			
	VIKANE		59.000			
05S/05W-99 M	AMITROLE	RESIDENTIAL CONTR.	6.800			
	CARBARYL		.500			
	CHLORDANE		9.969			
	DACTHAL		18.750			
	DIAZINON		.549			
	DIELDRIN		1.856			
	LINDANE		2.800			
	MALATHION		.821			
	MALEIC HYDRAZIDE		33.000			
	META-SYSTOX-R		.063			
	SIMAZINE		4.200			
	2,4-D		3.000			
06S/05W-21 M	ENDOSULFAN	ARTICHOKES		45.000	1	45.00
	PARATHION	ARTICHOKES		22.500	1	45.00
07S/05W-16 M	ENDOSULFAN	ARTICHOKES		35.000	1	35.00
	PARATHION	ARTICHOKES		17.500	1	35.00
08S/05W-99 M	AMITROLE	RESIDENTIAL CONTR.	2.000			
	SIMAZINE		8.000			
08S/07W-99 M	CARBARYL	RESIDENTIAL CONTR.	.250			
	CHLORDANE		2.075			
	DIAZINON		.743			
	DIELDRIN		.010			
	LINDANE		.048			
	PYRETHRINS		.005			
09S/04W-99 M	AMITROLE	RESIDENTIAL CONTR.	1.500			
	SIMAZINE		5.600			
10S/03W-32 M	DI-SYSTON	BRUSSEL SPROUTS		15.500	3	62.00
	GUTHION	BRUSSEL SPROUTS		69.060	4	71.00
	PARATHION	BRUSSEL SPROUTS		87.500	5	125.00

COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11S/01W-99 M	PARAQUAT	RESIDENTIAL CONTR.	9.105			
	PETROLEUM SOLVENTS		4.888			
	SIMAZINE		47.680			
	SODIUM POLYSULFIDE		8.120			
	STREPTOMYCIN		.100			
	STRYCHNINE		.230			
	WARFARIN		.053			
	ZINC PHOSPHIDE		.632			
	2,4-D		64.250			
	2,4,5-T		60.195			
	COPPER		12.500			
11S/02W-13 M	AMITROLE	WEED		10.800	1	27.00
	SIMAZINE	WEED		108.000	1	27.00
	2,4-D	WEED		6.750	1	27.00
11S/02W-19 M	D-D MIXTURE	FALLOWLAND		9,504.000	2	64.00
	DI-SYSTON	BRUSSEL SPROUTS		60.012	1	60.00
	DYLUX	BRUSSEL SPROUTS		115.781	8	170.25
	ENDOSULFAN	BRUSSEL SPROUTS		37.000	3	37.00
	GUTHION	BRUSSEL SPROUTS		154.867	7	165.00
	META-SYSTOX-R	BRUSSEL SPROUTS		1.625	1	3.25
	PARATHION	BRUSSEL SPROUTS		53.500	3	73.00
	PHOSDRIN	BRUSSEL SPROUTS		47.500	2	95.00
	SYSTOX	BRUSSEL SPROUTS		126.500	10	253.00
	TELONE	FALLOWLAND		1,782.000	1	12.00
	SPREADERS	BRUSSEL SPROUTS		29.222	15	354.25
11S/02W-20 M	D-D MIXTURE	FALLOWLAND		43,213.500	6	278.00
	DDT	BRUSSEL SPROUTS		7.500	1	1.50
	DI-SYSTON	BRUSSEL SPROUTS		7.500	1	20.00
	GUTHION	BRUSSEL SPROUTS		16.500	2	16.00
	META-SYSTOX-R	BRUSSEL SPROUTS		9.000	1	18.00
	METHYL BROMIDE	BRUSSEL SPROUTS		798.000	1	2.10
	SYSTOX	BRUSSEL SPROUTS		180.613	8	362.00
	TOXAPHENE	BRUSSEL SPROUTS		146.250	3	45.00
	TRIFLURALIN	BRUSSEL SPROUTS		15.145	1	20.00
11S/02W-21 M	CDEC	BRUSSEL SPROUTS		100.000	1	40.00
	D-D MIXTURE	FALLOWLAND		14,404.500	1	97.00
	DI-SYSTON	BRUSSEL SPROUTS		36.000	1	48.00
	GUTHION	BRUSSEL SPROUTS		8.440	1	27.00
	METHYL BROMIDE	BRUSSEL SPROUTS		1,350.000	2	4.50
	PARATHION	BRUSSEL SPROUTS		1.000	1	2.00
	SYSTOX	BRUSSEL SPROUTS		139.002	5	287.00
	TOXAPHENE	BRUSSEL SPROUTS		241.500	2	67.00
11S/02W-88 M	ALDRIN	STRUCTURAL CONTROL	64.000			
	BAYGON		7.178			
	CALCIUM ARSENATE		.181			
	CARBARYL		187.544			
	CHLORDANE		2,742.055			
	CYANOGAS		1.549			
	DDT		18.813			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10S/03W-32 M	SYSTOX	BRUSSEL SPROUTS		215.075	6	102.00
	TOXAPHENE	BRUSSEL SPROUTS		82.500	2	22.00
10S/03W-33 M	DI-SYSTON	BRUSSEL SPROUTS		191.037	6	191.00
	ENDOSULFAN	BRUSSEL SPROUTS		27.500	1	55.00
	GUTHION	BRUSSEL SPROUTS		78.000	5	104.00
	PARATHION	BRUSSEL SPROUTS		55.000	1	55.00
	TELONE	FALLOWLAND		13,662.000	2	92.00
10S/03W-99 M	AMITROLE	RESIDENTIAL CONTR.	5.600			
	MALEIC HYDRAZIDE		33.000			
	SIMAZINE		24.400			
11S/01W-88 M	BAYGON	STRUCTURAL CONTROL	3.357			
	CARBARYL		122.402			
	CHLORDANE		3,667.868			
	CYANOGAS		.210			
	DDT		5.157			
	DIAZINON		35.631			
	DIELDRIN		22.186			
	DIMETHOATE		.053			
	DIPHACIN		2.749			
	DURSBAN		.016			
	HEPTACHLOR		.089			
	LINDANE		330.207			
	MALATHION		188.114			
	MANEB		.674			
	METALDEHYDE		14.307			
	META-SYSTOX-R		2.612			
	METHYL BROMIDE		150.000			
	PCP		22.976			
	PETROLEUM SOLVENTS		.200			
	PYRETHRINS		.052			
	VIKANE		872.860			
11S/01W-99 M	AMITROLE	RESIDENTIAL CONTR.	2.300			
	ATRAZINE		1.600			
	CAPTAN		1.000			
	CARBARYL		188.875			
	CHLORDANE		143.968			
	COPPER SULFA-PENTHAH		18.780			
	COPPER SULFATE-BASIC		1.822			
	DIAZINON		8.687			
	DIELDRIN		.188			
	DORMANT OILS		477.617			
	ETHION		15.334			
	KELTHANE		.351			
	LINDANE		62.240			
	MALATHION		67.341			
	MALEIC HYDRAZIDE		24.000			
	MANEB		2.000			
	META-SYSTOX-R		.031			
	METHYL BROMIDE		19.000			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11S/02W-88 M	DIAZINON	STRUCTURAL CONTROL	29.894			
	DIELDRIN		18.940			
	DIPHACIN		2.271			
	DURSBAN		1.156			
	HEPTACHLOR		.047			
	LINDANE		245.468			
	MALATHION		190.230			
	MANEB		1.130			
	METALDEHYDE		43.140			
	META-SYSTOX-R		.733			
	METHYL BROMIDE		59.875			
	PCP		4.269			
	PDB		.076			
	PETROLEUM SOLVENTS		.100			
	PIPERONYL BUTOXIDE		.307			
	PYRETHRINS		.536			
	SILICA AEROGEL		19.968			
	VIKANE		432.970			
	ZINC SULPHATE		.034			
	AMMONIUM FLUOSILICAT		.282			
11S/02W-99 M	ALDRIN	RESIDENTIAL CONTR.	12.000			
	AMITROLE		151.730			
	ATRAZINE		87.200			
	BROMACIL		624.000			
	CAPTAN		.375			
	CARBARYL		59.250			
	CHLORDANE		100.938			
	COPPER SULFA-PENTHAH		8.930			
	COPPER SULFATE-BASIC		1.325			
	DALAPON		.319			
	DIAZINON		13.312			
	DIELDRIN		.047			
	DORMANT OILS		439.510			
	ETHION		13.435			
	HYVAR		4.800			
	LIME SULFUR		370.020			
	LINDANE		28.170			
	MALATHION		53.813			
	MANEB		2.950			
	META-SYSTOX-R		.381			
	METHYL BROMIDE		10.000			
	PARAQUAT		9.014			
	PETROLEUM SOLVENTS		.818			
	SIMAZINE		52.502			
	SODIUM POLYSULFIDE		13.340			
	STRYCHNINE		.100			
	TRYSBEN,TCB		22.000			
	WARFARIN		.008			
	ZINC PHOSPHIDE		.040			

COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11S/02W-99 M	2,4-D	RESIDENTIAL CONTR.	311.380			
	2,4,5-T		97.506			
	SODIUM METABORATE		15.680			
11S/03W-03 M	D-D MIXTURE	FALLOWLAND		1,485.000	1	10.00
	DI-SYSTON	BRUSSEL SPROUTS		56.011	3	56.00
	DYLOX	BRUSSEL SPROUTS		52.375	7	70.00
	ENDOSULFAN	BRUSSEL SPROUTS		25.000	2	25.00
	GUTHION	BRUSSEL SPROUTS		101.751	9	106.00
	MANEB	BRUSSEL SPROUTS		8.000	1	10.00
	META-SYSTOX-R	BRUSSEL SPROUTS		20.333	3	40.00
	METHYL BROMIDE	BRUSSEL SPROUTS		699.200	1	1.84
	PARATHION	BRUSSEL SPROUTS		47.000	5	53.00
	PHOSDRIN	BRUSSEL SPROUTS		20.000	3	40.00
	SYSTOX	BRUSSEL SPROUTS		17.000	4	34.00
	TELONE	FALLOWLAND		5,049.000	2	34.00
	ZINC SULPHATE	BRUSSEL SPROUTS		.342	1	10.00
	SPREADERS	BRUSSEL SPROUTS		12.263	15	154.00
11S/03W-04 M	CDEC	BRUSSEL SPROUTS		40.000	1	16.00
	D-D MIXTURE	FALLOWLAND		13,068.000	2	88.00
	DI-SYSTON	BRUSSEL SPROUTS		116.023	1	116.00
	DYLOX	BRUSSEL SPROUTS		35.000	4	54.50
		CARROTS		12.000	1	12.00
	ENDOSULFAN	BRUSSEL SPROUTS		11.000	1	11.00
	GUTHION	BRUSSEL SPROUTS		133.332	6	106.50
		CARROTS		11.870	1	12.00
	PARATHION	BRUSSEL SPROUTS		19.000	3	24.50
	SYSTOX	BRUSSEL SPROUTS		104.500	7	209.00
	TOXAPHENE	BRUSSEL SPROUTS		366.600	3	63.00
	SPREADERS	BRUSSEL SPROUTS		10.528	8	132.50
11S/03W-11 M	D-D MIXTURE	FALLOWLAND		15,147.000	1	102.00
	DI-SYSTON	BRUSSEL SPROUTS		102.000	1	136.00
	GUTHION	BRUSSEL SPROUTS		56.252	3	76.50
	META-SYSTOX-R	BRUSSEL SPROUTS		17.500	1	35.00
	METHYL BROMIDE	BRUSSEL SPROUTS		741.000	1	1.95
	PARATHION	BRUSSEL SPROUTS		91.860	2	139.00
		FALLOWLAND		4.200	2	6.00
	SYSTOX	BRUSSEL SPROUTS		79.500	4	146.50
	TOXAPHENE	BRUSSEL SPROUTS		228.000	2	64.00
11S/03W-12 M	CHLORDANE	BRUSSEL SPROUTS		154.000	3	77.00
	DIAZINON	BRUSSEL SPROUTS		30.500	2	61.00
	DYLOX	BRUSSEL SPROUTS		60.000	1	60.00
	ENDOSULFAN	BRUSSEL SPROUTS		16.000	1	16.00
	GUTHION	BRUSSEL SPROUTS		33.750	1	45.00
	MANEB	BRUSSEL SPROUTS		43.200	1	54.00
	META-SYSTOX-R	BRUSSEL SPROUTS		36.649	1	55.00
	PARATHION	BRUSSEL SPROUTS		16.000	1	16.00
		PEAS		17.500	2	35.00
	PETROLEUM SOLVENTS	WEED		532.000	1	5.00
	PHOSDRIN	BRUSSEL SPROUTS		78.000	3	129.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11S/03W-12 M	SINOX	WEED		8.333	1	5.00
	SULFUR	PEAS		437.500	2	35.00
	SYSTOX	BRUSSEL SPROUTS		89.500	4	179.00
	SPREADERS	BRUSSEL SPROUTS		24.736	8	311.00
11S/03W-99 M	AMITROLE	RESIDENTIAL CONTR.	.090			
	SIMAZINE		.384			
	2,4-D		36.000			
	2,4,5-T		36.000			
15S/01W-88 M	ALDRIN	STRUCTURAL CONTROL	1.000			
	BAYGON		1.278			
	CHLORDANE		72.500			
	DIAZINON		2.000			
	LETHANE 384		1.768			
	METHYL BROMIDE		165.000			
	PCP		51.700			
	VIKANE		78.000			
15S/01W-99 M	ALDRIN	RESIDENTIAL CONTR.	6.250			
	AMITROLE		59.619			
	ATRAZINE		9.600			
	BAYGON		.176			
	BROMACIL		1.600			
	CARBARYL		249.900			
	CASARON		5.500			
	CHLORDANE		106.326			
	COPPER SULFA-PENTHAH		15.929			
	DALAPON		12.750			
	DIAZINON		27.625			
	DYLOX		7.600			
	DYRENE		1.000			
	FERBAM		2.880			
	KELTHANE		3.088			
	LETHANE 384		.120			
	LINDANE		1.165			
	LINURON		.250			
	MALATHION		6.564			
	PARAQUAT		.625			
	PCP		.125			
	PETROLEUM SOLVENTS		79.002			
	SILVEX		9.188			
	SIMAZINE		57.200			
	SUMMER OILS		66.500			
	TORDON		.004			
	ZINEB		2.225			
	2,4-D		11.509			
	2,4,5-T		1.875			
	SPREADERS		48.858			
	ZINC		2.375			
	COPPER		1.000			
16S/01W-77 M	2,4-D	WEED		4.000	1	4.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
16S/01W-88 M	ALDRIN	STRUCTURAL CONTROL	2.000			
	BAYGON		.394			
	CHLORDANE		174.006			
	DIAZINON		.250			
	DIELDRIN		2.250			
	ETHYLENE BROMIDE EDB		8.000			
	LETHANE 384		1.804			
	METHYL BROMIDE		50.000			
	PCP		118.800			
	VIKANE		374.000			
16S/01W-99 M	ALDRIN	RESIDENTIAL CONTR.	2.000			
	AMITROLE		58.563			
	ATRAZINE		6.400			
	BAYGON		.188			
	CARBARYL		803.000			
	CASARON		3.000			
	CHLORDANE		286.000			
	COPPER SULFA-PENTHAH		37.188			
	DALAPON		8.075			
	DIAZINON		96.312			
	DICAMBA		.562			
	DIELDRIN		8.213			
	DIPHENAMID		1.600			
	DORMANT OILS		48.686			
	DURSBAN		.082			
	DYLOX		4.800			
	GARDONA		1.330			
	KARATHANE		1.688			
	KELTHANE		5.382			
	LETHANE 384		.120			
	LINDANE		5.797			
	LINURON		.750			
	MAGNESIUM CHLORIDE		9.600			
	MALATHION		40.967			
	MALEIC HYDRAZIDE		280.000			
	PCP		1.333			
	PETROLEUM SOLVENTS		42.691			
	SILVEX		50.000			
	SIMAZINE		15.800			
	SUMMER OILS		96.425			
	TUPERSAN		6.250			
	ZECTRAN		.375			
	ZINEB		55.096			
	2,4-D		59.625			
	2,4,5-T		57.062			
	ZINC SULPHATE		.760			
	SPREADERS		91.489			
	NITROGEN ELEMENTAL		.048			
	ZINC		.380			

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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
16S/01W-99 M	COPPER	RESIDENTIAL CONTR.	2.280			
17S/01W-99 M	AMITROLE	RESIDENTIAL CONTR.	1.125			
	CARBARYL		35.200			
	CHLORDANE		8.000			
	COPPER SULFA-PENTHAH		3.800			
	DIAZINON		4.000			
	FERBAM		6.300			
	KARATHANE		.330			
	KELTHANE		.125			
	SILVEX		1.000			
	SUMMER OILS		73.150			
	2,4-D		1.000			
	ZINC SULPHATE		3.800			
	SPREADERS		4.790			
02S/05E-88 M	BAYGON	STRUCTURAL CONTROL	91.208			
	CHLORDANE		57.758			
	DIAZINON		4.531			
11S/01E-18 M	2,4-D	WEED		3.264	1	.50
	2,4,5-T	WEED		3.185	1	.50
11S/01E-20 M	DIAZINON	STRAWBERRIES		4.000	1	8.00
	ENDOSULFAN	STRAWBERRIES		16.000	1	8.00
	NALED	STRAWBERRIES		8.000	1	8.00
	SPREADERS	STRAWBERRIES		3.593	1	8.00
11S/01E-28 M	PHOSDRIN	BRUSSEL SPROUTS		40.000	1	40.00
	SYSTOX	BRUSSEL SPROUTS		52.500	3	105.00
11S/01E-34 M	EPTAM	BEANS, DRY		678.000	1	226.00
	GUTHION	BRUSSEL SPROUTS		55.000	3	74.00
	MALATHION	ONIONS		12.000	1	6.00
	MANEB	ONIONS		18.000	1	6.00
	METHYL BROMIDE	BRUSSEL SPROUTS		2,025.000	1	6.75
	PARATHION	BRUSSEL SPROUTS		74.000	3	74.00
	SULFUR	ONIONS		90.000	1	6.00
	SPREADERS	BRUSSEL SPROUTS		32.716	3	74.00
11S/01E-88 M	BAYGON	STRUCTURAL CONTROL	.064			
	CARBARYL		56.488			
	CHLORDANE		2,148.681			
	CYANOGAS		.316			
	DDT		.282			
	DIAZINON		6.635			
	DIELDRIN		6.817			
	DIPHACIN		.201			
	HEPTACHLOR		.009			
	LINDANE		164.662			
	MALATHION		61.963			
	MANEB		.220			
	METALDEHYDE		11.361			
	META-SYSTOX-R		1.798			
	PCP		.170			
	SILICA AEROGEL		.119			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11S/01E-88 M	VIKANE	STRUCTURAL CONTROL	206.720			
	AMMONIUM FLUOSILICAT		.146			
11S/01E-99 M	AMITROLE	RESIDENTIAL CONTR.	2.500			
	CAPTAN		.500			
	CARBARYL		41.375			
	CARBOPHENOTHION		.750			
	CHLORDANE		84.314			
	COPPER SULFA-PENTHAH		.699			
	COPPER SULFATE-BASIC		3.000			
	DIAZINON		2.378			
	DIELDRIN		1.132			
	DORMANT OILS		37.782			
	ETHION		1.073			
	GUTHION		1.000			
	KARATHANE		.375			
	LINDANE		17.560			
	MALATHION		28.219			
	MALEIC HYDRAZIDE		165.000			
	METHYL BROMIDE		6.000			
	PARAQUAT		.747			
	PETROLEUM SOLVENTS		1.629			
	SIMAZINE		13.100			
	STRYCHNINE		.080			
	SUMMER OILS		23.940			
	WARFARIN		.005			
	ZINC PHOSPHIDE		.064			
	2,4-D		98.000			
	2,4,5-T		105.264			
	COPPER		1.000			
12S/01E-03 M	CAPTAN	STRAWBERRIES		40.000	1	8.00
	DIMETHOATE	NURSERY PLANTINGS		9.000	2	9.00
	EPTAM	BEANS, DRY		106.500	1	35.50
	MANEB	NURSERY PLANTINGS		9.300	2	9.00
	PETROLEUM SOLVENTS	STRAWBERRIES		782.040	1	8.00
	PHOSDRIN	NURSERY PLANTINGS		6.000	1	6.00
		STRAWBERRIES		8.000	1	8.00
	SINOX	STRAWBERRIES		10.000	1	8.00
	TRIFLURALIN	BEANS, DRY		17.750	1	35.50
	ZINEB	NURSERY PLANTINGS		.360	1	6.00
	SPREADERS	STRAWBERRIES		1.073	1	8.00
12S/01E-10 M	PHOSDRIN	BRUSSEL SPROUTS		25.000	1	25.00
12S/01E-11 M	BTB	STRAWBERRIES		12.000	1	8.00
	CHLOROPICRIN	FALLOWLAND		2,439.500	2	16.40
	-DDD-	NURSERY PLANTINGS		15.000	1	15.00
	GUTHION	BRUSSEL SPROUTS		131.000	9	131.00
	LIME SULFUR	BUSHBERRIES		300.000	1	6.00
	METHYL BROMIDE	FALLOWLAND		3,505.500	2	16.40
	NALED	STRAWBERRIES		79.000	3	108.00
	PHOSDRIN	BRUSSEL SPROUTS		55.000	2	55.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
12S/01E-11 M	PHOSDRIN	STRAWBERRIES		132.750	6	135.00
	SULFUR	STRAWBERRIES		1,384.500	4	93.00
	SYSTOX	BRUSSEL SPROUTS		142.500	8	285.00
	TEPP	STRAWBERRIES		16.980	2	29.00
	SPREADERS	STRAWBERRIES		1.743	2	13.00
12S/01E-12 M	BALAN	FALLOWLAND		8.808	1	10.00
	CHLOROPICRIN	STRAWBERRIES		631.950	1	5.00
	D-D MIXTURE	FALLOWLAND		6,237.000	1	42.00
	GUTHION	BRUSSEL SPROUTS		23.250	2	41.00
	MALATHION	ARTICHOKES		25.000	1	40.00
	METHYL BROMIDE	STRAWBERRIES		1,283.050	1	5.00
	NALED	STRAWBERRIES		28.000	1	14.00
	PARATHION	BRUSSEL SPROUTS		25.000	1	25.00
	PETROLEUM SOLVENTS	STRAWBERRIES		782.040	1	8.00
	PHOSDRIN	STRAWBERRIES		15.500	2	18.00
	SINOX	STRAWBERRIES		10.000	1	8.00
	SYSTOX	BRUSSEL SPROUTS		19.751	3	61.00
	TOXAPHENE	BRUSSEL SPROUTS		5.909	1	21.00
	SPREADERS	STRAWBERRIES		1.341	1	10.00
12S/01E-13 M	CAPTAN	STRAWBERRIES		300.000	6	60.00
	CARBARYL	STRAWBERRIES		18.459	2	18.00
	CHLORDANE	STRAWBERRIES		90.000	1	9.00
	CHLOROPICRIN	FALLOWLAND		13,455.000	1	10.00
		STRAWBERRIES		637.451	1	5.07
	DI-SYSTON	BRUSSEL SPROUTS		120.024	2	120.00
	DNBP	WEED		27.500	1	22.00
	ENDOSULFAN	LETTUCE		30.000	3	30.00
	MALATHION	LETTUCE		20.000	3	30.00
	METHYL BROMIDE	BRUSSEL SPROUTS		1,237.500	1	3.30
		STRAWBERRIES		1,294.219	1	5.07
	PARATHION	LETTUCE		5.000	1	10.00
	PETROLEUM SOLVENTS	STRAWBERRIES		2,215.780	2	18.00
		WEED		9,645.160	2	106.00
	PHOSDRIN	LETTUCE		79.752	6	91.00
		STRAWBERRIES		96.629	7	110.00
	SINOX	STRAWBERRIES		22.500	2	18.00
		WEED		105.000	1	84.00
	SULFUR	STRAWBERRIES		2,427.500	12	169.00
	TEPP	STRAWBERRIES		77.760	7	125.00
	THIRAM	STRAWBERRIES		19.500	1	6.00
	TOXAPHENE	CELERY		92.000	1	23.00
		LETTUCE		30.000	1	10.00
	ZINEB	LETTUCE		12.000	1	10.00
	SPREADERS	LETTUCE		14.541	7	101.00
		STRAWBERRIES		14.053	6	93.00
12S/01E-14 M	CAPTAN	STRAWBERRIES		22.600	4	28.00
	PHOSDRIN	STRAWBERRIES		14.000	2	14.00
	SULFUR	STRAWBERRIES		745.000	6	40.00
	THIRAM	STRAWBERRIES		7.200	2	12.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
12S/01E-15 M	ENDOSULFAN	BRUSSEL SPROUTS		64.000	1	64.00
	GUTHION	BRUSSEL SPROUTS		72.000	3	102.00
	PARATHION	BRUSSEL SPROUTS		18.000	1	18.00
	SYSTOX	BRUSSEL SPROUTS		363.000	1	66.00
	TOXAPHENE	BRUSSEL SPROUTS		60.000	1	20.00
	SPREADERS	BRUSSEL SPROUTS		66.495	3	148.00
12S/01E-23 M	D-D MIXTURE	FALLOWLAND		27,720.000	1	100.00
	DIMETHOATE	NURSERY PLANTINGS		15.086	6	30.00
	GUTHION	BRUSSEL SPROUTS		118.500	15	237.00
	LINDANE	NURSERY PLANTINGS		96.000	1	6.00
	MANEB	NURSERY PLANTINGS		38.800	4	18.00
	PARATHION	BRUSSEL SPROUTS		117.000	15	234.00
	PHOSDRIN	NURSERY PLANTINGS		12.250	3	15.00
	SYSTOX	BRUSSEL SPROUTS		103.000	13	206.00
12S/01E-24 N	COPPER OLEATE-ABIETA	CELERY		41.440	2	14.00
	COPPER OXYCHLORIDE	BROCCOLI		7.000	1	35.00
	DACTHAL	CAULIFLOWER		81.000	2	18.00
	DDT	BROCCOLI		117.500	4	120.00
	DIAZINON	CELERY		8.500	2	27.00
		LETTUCE		53.755	8	118.00
	DNBP	WEED		25.000	1	20.00
	ENDOSULFAN	BROCCOLI		62.000	2	62.00
		CELERY		14.000	2	14.00
		LETTUCE		267.000	18	267.00
	MALATHION	CELERY		11.500	2	15.00
		LETTUCE		59.500	7	71.00
	MANEB	BROCCOLI		72.000	2	60.00
		CELERY		8.085	1	7.00
	METALDEHYDE	ARTICHOKES		184.800	1	154.00
	META-SYSTOX-R	BROCCOLI		30.000	2	60.00
	METHYL PARATHION	ARTICHOKES		735.000	5	581.00
	PARATHION	BROCCOLI		30.000	2	60.00
		CELERY		3.500	1	7.00
	PERTHANE	LETTUCE		16.000	2	16.00
	PETROLEUM SOLVENTS	CELERY		6,384.000	2	16.00
		WEED		21,831.950	3	151.00
	PHORATE	LETTUCE		71.015	6	71.00
	PHOSDRIN	BROCCOLI		22.512	2	60.00
		BUSHBERRIES		19.500	1	26.00
		CAULIFLOWER		11.000	1	11.00
		CELERY		29.250	5	38.00
		LETTUCE		154.750	17	226.00
		NURSERY PLANTINGS		4.500	1	6.00
		STRAWBERRIES		91.000	6	108.00
	SINOX	WEED		163.750	2	131.00
	SULFUR	BROCCOLI		115.750	2	62.00
		STRAWBERRIES		75.000	1	6.00
	SYSTOX	BROCCOLI		31.000	2	62.00
	TEPP	STRAWBERRIES		3.000	1	6.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
12S/01E-24 M	TOK-25	BROCCOLI		122.500	1	35.00
		CAULIFLOWER		72.000	2	18.00
		CELERY		185.500	3	53.00
	TOXAPHENE	BROCCOLI		235.000	4	120.00
		CELERY		108.000	2	27.00
		LETTUCE		150.000	3	44.00
	TRIFLURALIN	BROCCOLI		50.016	3	80.00
	ZINEB	BROCCOLI		35.000	1	35.00
		CELERY		.315	1	7.00
		LETTUCE		154.800	10	129.00
	SPREADERS	BROCCOLI		14.629	4	122.00
		BUSHBERRIES		3.487	1	26.00
		CELERY		4.465	3	21.00
		LETTUCE		66.867	25	345.00
		STRAWBERRIES		5.633	2	42.00
12S/01E-25 M	METHYL PARATHION	ARTICHOKES		16.163	1	40.00
	PARATHION	ARTICHOKES		751.500	12	776.00
12S/01E-99 M	2,4-D	RESIDENTIAL CONTR.	15.000			
	2,4,5-T		15.000			
12S/02E-07 M	ALDRIN	LETTUCE		23.200	2	29.00
	BOTRAN	LETTUCE		231.750	11	181.00
	DIAZINON	LETTUCE		78.378	11	161.00
	DIELDRIN	LETTUCE		11.600	2	29.00
	DIMETHOATE	LETTUCE		4.257	1	17.00
	ENDOSULFAN	LETTUCE		347.000	22	362.00
	METHYL PARATHION	LETTUCE		19.500	2	39.00
	PARAQUAT	FALLOWLAND		9.699	1	8.00
	PARATHION	LETTUCE		166.357	22	357.00
	PERTHANE	LETTUCE		30.500	3	38.00
	PHORATE	LETTUCE		27.006	2	27.00
	PHOSDRIN	LETTUCE		132.482	18	253.00
	SULFUR	LETTUCE		12.400	4	62.00
	SUMMER OILS	LETTUCE		7.069	1	17.00
	TOK-25	CELERY		28.000	1	8.00
	TOXAPHENE	LETTUCE		824.000	18	268.00
		STRAWBERRIES		159.000	1	53.00
	TRIFLURALIN	LETTUCE		48.000	1	12.00
	ZINEB	LETTUCE		15.500	4	62.00
	2,4-D	PASTURE, MEADOW		88.008	3	108.00
	SPREADERS	LETTUCE		147.933	17	247.00
	COPPER	LETTUCE		3.100	4	62.00
12S/02E-08 M	ENDOSULFAN	CELERY		10.000	1	10.00
		LETTUCE		154.500	11	179.00
	MALATHION	CELERY		28.125	3	30.00
		LETTUCE		26.250	1	28.00
	MANEB	CELERY		16.000	1	10.00
	METHYL PARATHION	CELERY		8.763	1	10.00
		LETTUCE		104.626	6	131.00
		TOMATOES		35.625	2	55.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
12S/02E-08 M	PARATHION	LETTUCE		100.438	15	286.00
		TOMATOES		34.750	4	107.00
	PERTHANE	LETTUCE		44.000	2	44.00
	PETROLEUM SOLVENTS	WEED		3,192.000	2	24.00
	PHOSDRIN	LETTUCE		279.500	18	344.00
	SINOX	FALLOWLAND		137.500	1	110.00
		WEED		60.000	2	24.00
	TOXAPHENE	CELERY		120.000	3	30.00
		LETTUCE		589.000	7	160.00
		TOMATOES		208.000	2	52.00
	TRIFLURALIN	CABBAGE		8.128	1	13.00
	2,4-D	DITCHES		6.682	1	1.00
	ZINC SULPHATE	CELERY		.684	1	10.00
	SPREADERS	LETTUCE		13.479	4	99.00
12S/02E-16 M	AMITROLE	WEED		21.600	1	24.00
	DIAZINON	LETTUCE		11.500	1	23.00
	ENDOSULFAN	LETTUCE		23.000	1	23.00
	SIMAZINE	WEED		96.000	1	24.00
	TOK-25	CELERY		87.000	1	29.00
	2,4-D	WEED		6.000	1	24.00
	SPREADERS	LETTUCE		3.660	1	23.00
12S/02E-17 M	ALDRIN	LETTUCE		48.800	4	61.00
	DIAZINON	LETTUCE		68.372	4	67.00
	DIELDRIN	LETTUCE		24.400	4	61.00
	DIMETHOATE	LETTUCE		5.668	1	34.00
	ENDOSULFAN	LETTUCE		407.000	19	393.00
		TOMATOES		20.186	2	33.00
	MALATHION	LETTUCE		93.813	5	91.00
	MANEB	LETTUCE		28.800	3	36.00
	META-SYSTOX-R	CAULIFLOWER		23.986	2	36.00
	METHOMYL	CAULIFLOWER		16.200	2	36.00
		LETTUCE		3.600	1	8.00
	METHYL PARATHION	LETTUCE		238.250	12	269.00
	PARATHION	LETTUCE		203.000	20	370.00
		TOMATOES		16.500	2	33.00
	PERTHANE	LETTUCE		23.000	1	23.00
	PETROLEUM SOLVENTS	FALLOWLAND		10,773.000	4	108.00
	PHORATE	LETTUCE		39.750	2	53.00
	PHOSDRIN	LETTUCE		588.750	47	936.00
		TOMATOES		16.500	2	33.00
	SINOX	FALLOWLAND		135.000	4	108.00
	SYSTOX	LETTUCE		2.000	1	8.00
	TOXAPHENE	LETTUCE		1,734.000	22	447.00
	IRON	LETTUCE		.131	1	8.00
	MISC. MINOR ELEMENTS	LETTUCE		329.546	14	407.00
	SPREADERS	CAULIFLOWER		5.959	2	36.00
		LETTUCE		433.699	36	840.00
	ZINC	LETTUCE		.300	1	8.00
12S/02E-18 M	BALAN	LETTUCE		193.500	15	258.00

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12S/02E-18 M	BOTRAN	LETTUCE		124.500	3	102.00
	CIPC	LETTUCE		387.000	15	258.00
	DIAZINON	LETTUCE		136.760	13	286.00
	ENDOSULFAN	CELERY		4.000	1	8.00
		LETTUCE		747.000	28	751.00
	MALATHION	LETTUCE		57.000	5	102.00
	MANEB	LETTUCE		11.200	1	14.00
	PARATHION	CELERY		2.000	1	8.00
		LETTUCE		208.500	14	436.00
	PERTHANE	LETTUCE		92.000	3	66.00
	PETROLEUM SOLVENTS	WEED		1,715.700	2	18.00
	PHORATE	LETTUCE		97.019	3	97.00
	PHOSDRIN	CELERY		14.000	2	16.00
		LETTUCE		464.262	31	660.00
		TOMATOES		20.000	1	20.00
	SINOX	WEED		32.500	2	18.00
	SULFUR	LETTUCE		6.800	1	17.00
	TOK-25	CELERY		21.000	1	6.00
	TOXAPHENE	LETTUCE		818.000	8	217.00
	TRIFLURALIN	CELERY		3.751	1	6.00
		LETTUCE		68.000	1	17.00
	ZINEB	LETTUCE		259.300	8	226.00
	SPREADERS	LETTUCE		127.753	28	664.00
	COPPER	LETTUCE		1.700	1	17.00
12S/02E-19 M	CARBARYL	APPLES		40.000	1	16.00
	DNBP	WEED		343.750	2	275.00
	PETROLEUM SOLVENTS	WEED		34,865.950	2	275.00
	PHOSDRIN	LETTUCE		41.000	3	41.00
	SPREADERS	LETTUCE		14.532	3	41.00
12S/02E-31 M	META-SYSTOX-R	BRUSSEL SPROUTS		10.000	1	20.00
	TOXAPHENE	BRUSSEL SPROUTS		80.000	1	20.00
12S/02E-88 M	BAYGON	STRUCTURAL CONTROL	.773			
	CALCIUM ARSENATE		.156			
	CARBARYL		58.112			
	CHLORDANE		148.828			
	CYANOGAS		.053			
	DDT		2.063			
	DIAZINON		22.557			
	DIELDRIN		6.771			
	DIPHACIN		.719			
	DURSBAN		.032			
	HEPTACHLOR		.043			
	LINDANE		1.508			
	MALATHION		24.828			
	METALDEHYDE		7.521			
	META-SYSTOX-R		.544			
	METHYL BROMIDE		64.375			
	PCP		.837			
	PDB		.076			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
12S/02E-88 M	PIPERONYL BUTOXIDE	STRUCTURAL CONTROL	.289			
	PYRETHRINS		.374			
	VIKANE		211.190			
12S/02E-99 M	ATRAZINE	RESIDENTIAL CONTR.	11.600			
	CARBARYL		34.250			
	CARBOPHENOTHION		13.125			
	CHLORDANE		129.000			
	COPPER SULFA-PENTHAH		5.500			
	COPPER SULFATE-BASIC		48.000			
	DIAZINON		34.390			
	DORMANT OILS		.356			
	GUTHION		4.000			
	KARATHANE		4.688			
	LINDANE		.860			
	MALATHION		5.000			
	MALEIC HYDRAZIDE		6.000			
	MANEB		.800			
	METHYL BROMIDE		2.000			
	SIMAZINE		4.000			
	STRYCHNINE		.025			
	SUMMER OILS		425.600			
	WARFARIN		.002			
	ZINC PHOSPHIDE		.016			
	ZINEB		28.500			
	2,4-D		.500			
	ZINC SULPHATE		.034			
	SPREADERS		4.378			
13S/02E-04 M	DDT	CABBAGE		305.750	12	225.50
	DIMETHOATE	CABBAGE		10.014	1	30.00
	DNBP -AMINE SALTS	FALLOWLAND		185.000	1	148.00
	ENDOSULFAN	CABBAGE		50.000	2	50.00
	MANEB	CABBAGE		209.400	9	174.50
	META-SYSTOX-R	CABBAGE		90.250	10	180.50
	METHOMYL	CABBAGE		6.750	1	15.00
	PETROLEUM SOLVENTS	FALLOWLAND		19,290.320	1	148.00
	SULFUR	CABBAGE		257.800	5	101.00
	SYSTOX	CABBAGE		25.000	2	50.00
	TORDON	CABBAGE		49.500	1	16.50
	TOXAPHENE	CABBAGE		629.500	11	209.00
	TRIFLURALIN	CABBAGE		5.000	1	10.00
	ZINC SULPHATE	CABBAGE		2.462	2	48.00
	SPREADERS	CABBAGE		29.403	13	240.50
13S/02E-05 M	BTB	CAULIFLOWER		3.600	1	15.00
	DACTHAL	CAULIFLOWER		43.875	2	13.00
	DDT	CABBAGE		5.000	1	5.00
		CAULIFLOWER		9.999	1	15.00
	DIAZINON	CAULIFLOWER		19.000	2	38.00
	ENDOSULFAN	ARTICHOKES		37.000	1	37.00
		CABBAGE		14.000	2	17.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
13S/02E-05 M	ENDOSULFAN	CAULIFLOWER		10.500	1	14.00
	GUTHION	ARTICHOKES		38.000	1	38.00
	METHYL PARATHION	ARTICHOKES		185.750	6	208.00
	PARATHION	ARTICHOKES		96.689	7	169.00
		CABBAGE		6.000	1	12.00
	PETROLEUM SOLVENTS	BROCCOLI		13.300	1	4.00
	PHOSDRIN	BRUSSEL SPROUTS		16.000	1	16.00
		CAULIFLOWER		19.000	2	38.00
		SQUASH		18.000	1	24.00
	SYSTOX	BRUSSEL SPROUTS		39.500	4	79.00
		CAULIFLOWER		7.500	1	15.00
	TOK-25	BROCCOLI		20.000	1	4.00
		CAULIFLOWER		39.000	2	13.00
	TOXAPHENE	BRUSSEL SPROUTS		176.000	2	44.00
		CABBAGE		10.000	1	5.00
		CAULIFLOWER		19.998	1	15.00
	TRIFLURALIN	CABBAGE		46.000	4	92.00
	2,4-D	WEED		4.000	1	2.50
	SPREADERS	ARTICHOKES		7.568	1	38.00
		CABBAGE		5.394	1	12.00
		CAULIFLOWER		24.257	2	29.00
		SQUASH		4.598	1	24.00
13S/02E-06 M	CHLOROPICRIN	FALLOWLAND		18,298.000	4	66.90
	DDT	CAULIFLOWER		15.000	1	15.00
	DNBP	WEED		68.750	1	55.00
	ENDOSULFAN	CAULIFLOWER		11.250	1	15.00
	METHYL BROMIDE	FALLOWLAND		665.000	1	1.90
	PETROLEUM SOLVENTS	WEED		3,584.350	1	55.00
	TELONE	FALLOWLAND		15,967.000	3	65.00
13S/02E-07 M	BTB	CABBAGE		1.440	1	12.00
		CAULIFLOWER		1.560	1	13.00
	DACTHAL	CAULIFLOWER		58.500	1	13.00
		ONIONS		15.000	1	2.00
	DDT	CABBAGE		30.000	1	15.00
		CAULIFLOWER		63.000	4	63.00
	DIAZINON	RADISHES		20.375	4	39.00
	ENDOSULFAN	CABBAGE		12.000	1	12.00
		CAULIFLOWER		9.750	1	13.00
	ENDOTHALL	BEETS		8.000	1	2.00
	MALATHION	LETTUCE		7.500	1	12.00
	MANEB	CABBAGE		24.000	1	15.00
	META-SYSTOX-R	CABBAGE		15.000	1	15.00
	PHOSDRIN	CAULIFLOWER		13.000	1	13.00
	SYSTOX	CAULIFLOWER		25.000	3	50.00
	TOK-25	CAULIFLOWER		52.000	1	13.00
		PARSLEY		48.000	2	12.00
	ZINEB	LETTUCE		27.000	1	12.00
	SPREADERS	CABBAGE		21.565	2	27.00
		CAULIFLOWER		22.283	3	55.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
13S/02E-07 M	SPREADERS	RADISHES		8.776	4	39.00
	MOLASSES	LETTUCE		39.690	1	12.00
13S/02E-08 M	METHYL PARATHION	ARTICHOKES		30.000	1	30.00
13S/02E-09 M	DDT	CABBAGE		30.000	1	20.00
	META-SYSTOX-R	CABBAGE		10.000	1	20.00
	METHYL PARATHION	ARTICHOKES		123.000	2	123.00
	NALED	STRAWBERRIES		5.000	1	10.00
	PHOSDRIN	STRAWBERRIES		10.000	1	10.00
	SULFUR	CABBAGE		65.000	1	20.00
	TOXAPHENE	CABBAGE		60.000	1	20.00
	SPREADERS	CABBAGE		2.395	1	20.00
13S/02E-17 M	BOTRAN	CAULIFLOWER		20.250	1	9.00
	BTB	BRUSSEL SPROUTS		32.400	1	9.00
	DIAZINON	BRUSSEL SPROUTS		19.125	4	36.00
		CABBAGE		4.500	1	9.00
	META-SYSTOX-R	CABBAGE		4.500	1	9.00
		CAULIFLOWER		4.500	1	9.00
	METHOMYL	CAULIFLOWER		4.050	1	9.00
	PHOSDRIN	BRUSSEL SPROUTS		22.500	3	27.00
		CABBAGE		18.000	2	18.00
	TOXAPHENE	BRUSSEL SPROUTS		36.000	1	9.00
	SPREADERS	BRUSSEL SPROUTS		10.778	1	9.00
13S/02E-19 M	MALATHION	ARTICHOKES		10.000	1	8.00
	METHYL PARATHION	ARTICHOKES		1,792.500	35	1,792.50
	PHOSDRIN	ARTICHOKES		4.000	1	8.00
13S/02E-20 M	BTB	CAULIFLOWER		1.440	1	12.00
	DDT	BROCCOLI		25.000	1	25.00
		CABBAGE		5.000	1	5.00
		CAULIFLOWER		34.000	3	34.00
	DIMETHOATE	LETTUCE		4.339	1	13.00
	ENDOSULFAN	BROCCOLI		25.000	1	25.00
		CABBAGE		3.750	1	5.00
		CAULIFLOWER		30.000	3	40.00
		LETTUCE		13.000	1	13.00
	METHYL PARATHION	ARTICHOKES		37.000	1	37.00
	PETROLEUM SOLVENTS	CELERY		3,388.840	1	8.00
	PHORATE	LETTUCE		6.001	1	9.00
	PHOSDRIN	CABBAGE		2.500	1	5.00
		CAULIFLOWER		6.500	1	13.00
	SYSTOX	CAULIFLOWER		7.069	2	13.00
	TOK-25	CELERY		4.000	1	8.00
	TOXAPHENE	LETTUCE		36.000	1	9.00
	SPREADERS	BROCCOLI		7.501	1	25.00
		CABBAGE		1.504	1	5.00
		CAULIFLOWER		49.404	3	32.00
		LETTUCE		5.288	1	9.00
13S/02E-29 M	GUTHION	ARTICHOKES		101.500	3	148.00
	METHYL PARATHION	ARTICHOKES		2,629.250	51	2,719.00
	PARATHION	ARTICHOKES		126.000	2	126.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
13S/02E-29 M	SPREADERS	ARTICHOKES		33.013	5	192.00
	KERB	ARTICHOKES		5.240	1	42.00
13S/02E-30 M	CHLORDANE	CELERY		30.000	2	17.00
	DYLOX BAIT	LETTUCE		9.000	1	9.00
	DDT	CABBAGE		52.000	3	26.00
		CAULIFLOWER		18.000	1	9.00
	DIAZINON	CABBAGE		4.500	1	9.00
		CAULIFLOWER		9.000	2	18.00
	DIMETHOATE	CAULIFLOWER		4.505	1	9.00
	ENDOSULFAN	ARTICHOKES		125.000	4	125.00
	GUTHION	ARTICHOKES		116.500	4	142.00
	MALATHION	ARTICHOKES		10.000	1	8.00
	MANEB	CELERY		17.480	2	16.00
	META-SYSTOX-R	CABBAGE		17.250	4	41.00
		CAULIFLOWER		21.500	4	43.00
	METHOMYL	CABBAGE		14.850	3	33.00
		CAULIFLOWER		27.450	6	61.00
	METHYL PARATHION	ARTICHOKES		863.375	19	904.00
	PARATHION	ARTICHOKES		47.250	3	63.00
	PERTHANE	LETTUCE		18.000	1	9.00
	PETROLEUM SOLVENTS	CELERY		10,061.450	4	27.00
		FALLOWLAND		3,857.000	1	29.00
	PHOSDRIN	ARTICHOKES		4.000	1	8.00
		CABBAGE		4.500	1	9.00
		CAULIFLOWER		22.500	3	30.00
		CELERY		8.000	2	16.00
		LETTUCE		9.000	1	9.00
	SINOX	FALLOWLAND		29.000	1	29.00
	TOK-25	CELERY		5.000	2	10.00
	TOXAPHENE	CELERY		104.000	4	26.00
	ZINC SULPHATE	CELERY		.616	1	9.00
	SPREADERS	ARTICHOKES		15.577	1	39.00
		CABBAGE		29.372	5	50.00
		CAULIFLOWER		39.096	6	59.00
		CELERY		9.398	2	16.00
		LETTUCE		10.567	1	9.00
13S/02E-31 M	METHYL PARATHION	ARTICHOKES		1,344.250	23	1,356.00
	PARATHION	ARTICHOKES		896.000	5	896.00
	PHOSDRIN	ARTICHOKES		188.000	2	376.00
13S/02E-32 M	ENDOSULFAN	ARTICHOKES		94.000	1	188.00
	GUTHION	ARTICHOKES		163.500	5	176.00
	MALATHION	ARTICHOKES		150.000	3	120.00
	METHYL PARATHION	ARTICHOKES		1,677.250	33	1,704.00
	PARATHION	ARTICHOKES		224.000	3	230.00
	PHOSDRIN	ARTICHOKES		64.500	4	138.00
	SPREADERS	ARTICHOKES		14.974	2	50.00
13S/02E-33 M	ENDOSULFAN	ARTICHOKES		12.500	1	50.00
	GUTHION	ARTICHOKES		81.000	2	81.00
		CABBAGE		10.000	1	20.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
13S/02E-33 M	METHYL PARATHION	ARTICHOKES		1,153.000	19	1,153.00
		CABBAGE		6.250	1	20.00
	PARATHION	ARTICHOKES		438.500	7	456.50
	PHOSDRIN	ARTICHOKES		42.730	3	97.00
	SPREADERS	ARTICHOKES		32.361	2	81.00
13S/02E-99 M	ALDRIN	RESIDENTIAL CONTR.	8.000			
	AMITROLE		.200			
	CHLORDANE		13.000			
	DIAZINON		12.000			
	SIMAZINE		.800			
14S/01E-12 M	ENDOSULFAN	ARTICHOKES		145.500	1	291.00
	GUTHION	ARTICHOKES		95.000	5	95.00
	METHYL PARATHION	ARTICHOKES		299.981	11	388.00
	PARATHION	ARTICHOKES		485.500	7	522.00
	SPREADERS	ARTICHOKES		76.640	2	64.00
14S/01E-35 M	METHYL PARATHION	ARTICHOKES		1,136.313	25	1,204.00
	PARATHION	ARTICHOKES		74.125	5	136.00
14S/01E-36 M	ABATE	STREAMS		235.200	1	40.00
	DURSBAN	WASTE GROUND		7.504	1	40.00
	METHYL PARATHION	ARTICHOKES		160.000	2	160.00
14S/01E-88 M	ALDRIN	STRUCTURAL CONTROL	4.000			
	CHLORDANE		23.000			
	DIAZINON		.250			
14S/01E-99 M	ALDRIN	RESIDENTIAL CONTR.	9.000			
	AMITROLE		2.000			
	BROMACIL		96.000			
	CARBARYL		4.400			
	CHLORDANE		18.600			
	DIAZINON		3.250			
14S/02E-04 M	DIAZINON	LETTUCE		15.000	3	30.00
	ENDOSULFAN	ARTICHOKES		20.000	1	20.00
	GUTHION	ARTICHOKES		201.500	8	220.00
	MALATHION	ARTICHOKES		195.000	3	156.00
	METHYL PARATHION	ARTICHOKES		4,161.250	48	4,247.00
	PARATHION	ARTICHOKES		113.000	3	138.00
	PHOSDRIN	ARTICHOKES		78.000	3	156.00
		LETTUCE		15.000	3	30.00
	SIMAZINE	ARTICHOKES		24.000	1	24.00
	TOK-25	CELERY		104.000	1	26.00
	SPREADERS	ARTICHOKES		49.117	4	83.00
		LETTUCE		17.617	3	30.00
14S/02E-05 M	CHLOROPICRIN	STRAWBERRIES		1,405.971	1	8.65
	DDT	BROCCOLI		12.000	1	12.00
		CABBAGE		4.000	1	4.00
	ENDOSULFAN	ARTICHOKES		18.000	1	18.00
		BROCCOLI		12.000	1	12.00
		CABBAGE		4.000	1	4.00
	GUTHION	ARTICHOKES		165.000	7	200.00
	MALATHION	ARTICHOKES		43.750	3	35.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
14S/02E-05 M	METHYL BROMIDE	STRAWBERRIES		1,863.729	1	8.65
	METHYL PARATHION	ARTICHOKES		2,525.000	65	2,563.00
	PARATHION	ARTICHOKES		36.000	2	48.00
	PHOSDRIN	ARTICHOKES		17.500	3	35.00
	SPREADERS	ARTICHOKES		69.858	3	98.00
		BROCCOLI		5.394	1	12.00
		CABBAGE		1.801	1	4.00
14S/02E-06 M	DYLOX	LETTUCE		9.500	1	19.00
	MALATHION	ARTICHOKES		23.750	2	19.00
	METHYL PARATHION	ARTICHOKES		2,484.775	22	2,288.00
	PARATHION	ARTICHOKES		11.000	1	22.00
	PHOSDRIN	ARTICHOKES		26.000	3	41.00
	SPREADERS	ARTICHOKES		8.843	2	37.00
14S/02E-07 M	BTB	CABBAGE		27.440	1	7.00
	CHLORDANE	CELERY		14.000	1	7.00
	DDT	CABBAGE		25.000	2	12.50
		CAULIFLOWER		44.000	2	27.00
	DIAZINON	CABBAGE		.500	1	1.00
		CELERY		3.500	1	7.00
	DICAMBA	WEED		7.500	1	15.00
	ENDOSULFAN	CELERY		11.000	2	11.00
	GUTHION	ARTICHOKES		49.500	1	99.00
	MALATHION	CELERY		7.000	1	7.00
	MANEB	CELERY		58.660	7	49.00
	META-SYSTOX-R	CABBAGE		10.250	4	22.50
		CAULIFLOWER		9.250	2	21.00
	METHOMYL	CABBAGE		7.650	3	17.00
		CAULIFLOWER		4.950	1	11.00
	METHYL PARATHION	ARTICHOKES		1,059.000	13	1,059.00
		CELERY		12.250	2	14.00
	PARATHION	ARTICHOKES		1,167.000	10	1,167.00
	PETROLEUM SOLVENTS	CELERY		6,583.500	2	18.00
	PHOSDRIN	ARTICHOKES		179.500	3	359.00
		CELERY		26.500	8	53.00
	PROMETRYNE	CELERY		8.400	1	7.00
	TOK-25	CELERY		5.500	1	11.00
	TOXAPHENE	CABBAGE		4.000	1	1.00
		CELERY		73.940	3	25.00
	CALCIUM NITRATE	CELERY		175.000	3	21.00
	ZINC SULPHATE	CELERY		2.633	3	21.00
	SPREADERS	CABBAGE		18.498	6	30.50
		CAULIFLOWER		6.457	1	11.00
		CELERY		28.090	7	49.00
14S/02E-08 M	DDT	CABBAGE		8.000	2	4.00
		CAULIFLOWER		52.000	4	29.00
	DIAZINON	CABBAGE		.500	1	2.00
		CAULIFLOWER		4.000	1	8.00
		LETTUCE		15.250	3	30.50
	DYLOX	CAULIFLOWER		7.500	1	6.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
14S/02E-08 M	ENDOSULFAN	ARTICHOKES		40.000	2	40.00
		CAULIFLOWER		4.000	1	8.00
		LETTUCE		37.250	4	44.00
	GUTHION	ARTICHOKES		66.000	3	66.00
		CAULIFLOWER		7.000	2	14.00
	MALATHION	ARTICHOKES		240.000	4	192.00
	META-SYSTOX-R	CABBAGE		2.000	2	4.00
		CAULIFLOWER		3.000	1	6.00
	METHYL PARATHION	ARTICHOKES		3,214.500	76	3,219.00
	PHORATE	LETTUCE		10.125	1	13.50
	PHOSDRIN	ARTICHOKES		96.000	4	192.00
		CABBAGE		2.000	1	2.00
		LETTUCE		6.000	2	6.00
	SYSTOX	CAULIFLOWER		11.250	5	37.00
	SPREADERS	ARTICHOKES		1.791	1	12.00
14S/02E-09 M	BTB	CELERY		3.120	3	26.00
	DYLOX	CELERY		5.000	1	10.00
	ENDOSULFAN	ARTICHOKES		45.000	1	45.00
		CELERY		16.000	1	16.00
		LETTUCE		340.000	17	340.00
	GUTHION	ARTICHOKES		137.000	5	137.00
	MALATHION	ARTICHOKES		28.750	1	23.00
		CELERY		8.659	1	18.00
	METHOMYL	LETTUCE		9.000	1	20.00
	METHYL PARATHION	ARTICHOKES		1,062.813	19	1,134.00
		CELERY		140.250	14	194.00
		LETTUCE		121.125	10	216.00
	PARATHION	ARTICHOKES		50.625	2	90.00
		CELERY		35.066	14	194.00
		FALLOWLAND		6.000	1	2.00
		LETTUCE		123.790	21	403.00
	PETROLEUM SOLVENTS	CELERY		864.500	1	2.00
		FALLOWLAND		30,157.750	10	299.00
	PHORATE	LETTUCE		152.275	7	160.00
	PHOSDRIN	ARTICHOKES		11.500	1	23.00
		CELERY		18.000	3	26.00
		LETTUCE		114.813	13	256.00
	SINOX	FALLOWLAND		506.500	9	289.00
	SYSTOX	CELERY		13.000	4	52.00
	TEPP	CELERY		1.231	1	10.00
		LETTUCE		4.584	3	37.00
	TOK-25	CELERY		536.000	7	76.50
		FALLOWLAND		8.000	1	2.00
	TOXAPHENE	CELERY		1,052.000	19	263.00
		LETTUCE		596.000	8	149.00
	SPREADERS	ARTICHOKES		72.655	3	101.00
		CELERY		97.625	12	163.00
		LETTUCE		145.315	6	103.00
	SUGAR	CELERY		609.000	9	129.00

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CONT.						
14S/02E-09 M	SUGAR	LETTUCE		1,625.000	17	325.00
14S/02E-16 M	ALDRIN	FALLOWLAND		19.800	2	33.00
	BTB	LETTUCE		.696	1	23.00
	DYLOX BAIT	CAULIFLOWER		7.875	1	10.50
	DDT	CAULIFLOWER		60.500	4	44.00
	DIAZINON	CAULIFLOWER		46.500	5	93.00
		CELERY		14.500	3	29.00
		LETTUCE		187.500	19	375.00
	DIELDRIN	FALLOWLAND		9.900	2	33.00
		LETTUCE		39.000	5	104.00
	DIMETHOATE	CAULIFLOWER		9.000	1	24.00
	DYLOX	CAULIFLOWER		18.000	1	12.00
	ENDOSULFAN	CAULIFLOWER		5.500	1	11.00
		CELERY		55.750	7	65.00
		LETTUCE		318.625	24	447.00
	GUTHION	ARTICHOKES		88.000	3	58.00
		CAULIFLOWER		18.000	1	24.00
	MALATHION	LETTUCE		81.876	4	76.00
	MANEB	CELERY		3.520	1	8.00
	META-SYSTOX-R	CAULIFLOWER		41.375	7	100.00
	METHOMYL	CAULIFLOWER		4.050	1	9.00
	METHYL PARATHION	ARTICHOKES		391.000	3	391.00
		CAULIFLOWER		12.750	2	34.00
		CELERY		18.500	3	28.00
	PARATHION	CAULIFLOWER		42.000	4	67.00
		CELERY		4.500	1	9.00
		LETTUCE		56.500	5	113.00
	PERTHANE	CAULIFLOWER		11.000	1	11.00
		LETTUCE		95.000	4	71.00
	PETROLEUM SOLVENTS	CELERY		24,139.500	7	65.00
		FALLOWLAND		2,394.000	1	24.00
	PHORATE	LETTUCE		227.847	14	246.50
	PHOSDRIN	CAULIFLOWER		21.750	4	54.00
		CELERY		13.500	3	27.00
		LETTUCE		372.750	23	404.00
	SINOX	FALLOWLAND		24.000	1	24.00
	SYSTOX	CAULIFLOWER		8.250	3	33.00
	TCK-25	CELERY		87.500	4	37.00
	TOXAPHENE	CELERY		87.435	4	35.00
		LETTUCE		424.000	11	180.50
	ZINEB	CELERY		101.400	7	65.00
	CALCIUM NITRATE	CELERY		96.600	3	29.00
	MISC. MINOR ELEMENTS	CAULIFLOWER		7.287	1	9.00
	SPREADERS	ARTICHOKES		51.493	2	43.00
		CAULIFLOWER		3.727	3	57.00
		CELERY		4.694	1	8.00
		LETTUCE		29.967	4	51.00
14S/02E-17 M	DIAZINON	LETTUCE		16.500	1	33.00
	ENDOSULFAN	LETTUCE		16.500	1	33.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
14S/02E-17 M	GUTHION	ARTICHOKES		102.000	2	102.00
	MALATHION	ARTICHOKES		72.500	1	58.00
		LETTUCE		11.875	1	19.00
	METHYL PARATHION	ARTICHOKES		90.000	3	90.00
		LETTUCE		36.000	1	36.00
	PHORATE	LETTUCE		103.334	4	104.00
	PHOSDRIN	ARTICHOKES		61.000	2	90.00
		LETTUCE		18.000	1	36.00
	SIMAZINE	ARTICHOKES		21.000	1	21.00
	TOK-25	CELERY		66.000	1	22.00
	TOXAPHENE	LETTUCE		170.000	3	85.00
	MISC. MINOR ELEMENTS	LETTUCE		29.149	1	36.00
	SPREADERS	ARTICHOKES		13.948	1	70.00
		LETTUCE		21.143	1	36.00
14S/02E-18 M	METHYL PARATHION	ARTICHOKES		401.000	3	401.00
	2,4-D	OATS		35.000	1	70.00
14S/02E-20 M	DACTHAL	ONIONS		24.000	1	4.00
	DIAZINON	LETTUCE		47.500	5	87.00
	ENDOSULFAN	LETTUCE		128.500	9	163.00
	MALATHION	CELERY		10.000	1	10.00
	METHYL PARATHION	LETTUCE		14.000	1	28.00
	NALED	CELERY		22.500	1	15.00
	OIL OF VITRIOL	ONIONS		1,286.880	1	4.00
	PARATHION	LETTUCE		26.000	3	66.00
	PERTHANE	LETTUCE		30.500	3	61.00
	PETROLEUM SOLVENTS	ONIONS		39.900	1	4.00
	PHORATE	LETTUCE		97.264	6	105.00
	PHOSDRIN	LETTUCE		148.500	11	199.00
	TENORAN	ONIONS		12.000	1	4.00
	TOXAPHENE	LETTUCE		397.000	8	131.00
	SPREADERS	CELERY		5.873	1	10.00
		LETTUCE		262.807	20	364.00
	SUGAR	LETTUCE		132.000	2	44.00
14S/02E-21 M	ENDOSULFAN	LETTUCE		53.328	2	80.00
	METHYL PARATHION	ARTICHOKES		24.000	1	24.00
	PARATHION	LETTUCE		40.000	2	80.00
	PETROLEUM SOLVENTS	CELERY		2,793.000	1	6.00
	PHOSDRIN	LETTUCE		40.000	2	80.00
14S/02E-28 M	BTB	LETTUCE		.540	1	18.00
	PETROLEUM SOLVENTS	FALLOWLAND		6,902.700	2	74.00
	PHOSDRIN	LETTUCE		9.000	1	18.00
	SINOX	FALLOWLAND		96.250	2	74.00
14S/02E-29 M	METHYL PARATHION	ARTICHOKES		19.000	1	19.00
	SPREADERS	ARTICHOKES		7.587	1	19.00
15S/01E-12 M	PARATHION	ARTICHOKES		139.140	2	140.00
15S/01E-22 M	D-D MIXTURE	ONIONS		742.500	1	3.00
15S/01E-88 M	ALDRIN	STRUCTURAL CONTROL	34.000			
	BAYGON		4.056			
	CHLORDANE		298.625			

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15S/01E-88 M	DDT	STRUCTURAL CONTROL	20.000			
	DIAZINON		24.750			
	DURSBAN		.250			
	ETHYLENE BROMIDE EDB		2.000			
	LETHANE 384		6.378			
	MALATHION		111.250			
	PCP		34.191			
	VIKANE		44.000			
15S/01E-99 M	ALDRIN	RESIDENTIAL CONTR.	21.000			
	AMITROLE		49.700			
	AMMATE		1,710.000			
	ATRAZINE		9.600			
	BAYGON		.281			
	BROMACIL		6.800			
	CARBARYL		747.000			
	CASARON		2.750			
	CHLORDANE		152.835			
	COPPER SULFA-PENTHAH		13.620			
	DALAPON		7.650			
	DDT		2.000			
	DIAZINON		54.969			
	DIELDRIN		.750			
	DORMANT OILS		7.025			
	DURSBAN		.055			
	DYLOX		1.300			
	DYRENE		1.000			
	KELTHANE		1.663			
	LINDANE		2.175			
	LINURON		2.000			
	MALATHION		21.241			
	MANEB		1.925			
	PARAQUAT		1.000			
	PCP		1.000			
	PETROLEUM SOLVENTS		142.412			
	PRAMITOL, PROMETONE		2.970			
	SILVEX		2.500			
	SIMAZINE		43.200			
	SUMMER OILS		19.119			
	ZINEB		7.539			
	2,4-D		146.500			
	2,4,5-T		4.000			
	SPREADERS		13.470			
	ZINC		3.468			
17S/01E-88 M	CHLORDANE	STRUCTURAL CONTROL	44.000			
	DIELDRIN		.188			
	PCP		.825			
19S/02E-32 M	METHYL PARATHION	ARTICHOKES		22.000	1	22.00
26S/07E-88 M	CHLORDANE	STRUCTURAL CONTROL	1.428			
	DIAZINON		.376			

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
26S/07E-88 M	DIELDRIN	STRUCTURAL CONTROL	.238			
27S/08E-23 M	DIELDRIN	FALLOWLAND		27.500	1	55.00
27S/08E-88 M	CHLORDANE	STRUCTURAL CONTROL	21.505			
	DIAZINON		.248			
	DIELDRIN		.238			
	ETHYLENE BROMIDE EDB		.091			
	HEPTACHLOR		.027			
	PCP		.758			
	PETROLEUM SOLVENTS		.166			
27S/08E-99 M	MALEIC HYDRAZIDE	RESIDENTIAL CONTR.	216.000			
28S/09E-36 M	2,4-D	RANGELAND		18.780	1	150.00
28S/10E-88 M	BAYGON	STRUCTURAL CONTROL	.141			
	CHLORDANE		4.544			
	DIAZINON		.124			
	DIELDRIN		.069			
	DURSBAN		.031			
28S/10E-99 M	MALEIC HYDRAZIDE	RESIDENTIAL CONTR.	42.000			
29S/10E-88 M	ALDRIN	STRUCTURAL CONTROL	14.000			
	CHLORDANE		41.713			
	DIAZINON		.967			
	DIELDRIN		.548			
	DURSBAN		.040			
	ETHYLENE BROMIDE EDB		1.015			
	MALATHION		1.241			
	PETROLEUM SOLVENTS		3.372			
	PIPERONYL BUTOXIDE		.088			
	PYRETHRINS		.510			
29S/10E-99 M	CARBARYL	RESIDENTIAL CONTR.	4.500			
	CHLORDANE		35.057			
	MALEIC HYDRAZIDE		104.000			
	SIMAZINE		4.000			
29S/11E-33 M	PARATHION	PEAS		3.032	5	4.91
		PEARS, BARTLETT		1.000	1	1.00
	SULFUR	PEAS		75.800	5	4.91
		PEARS, BARTLETT		25.000	1	1.00
	TOXAPHENE	PEAS		15.160	5	4.91
		PEARS, BARTLETT		5.000	1	1.00
	2,4-D	BARLEY		35.250	1	47.00
29S/11E-99 M	2,4-D	RESIDENTIAL CONTR.	1.000			
	2,4,5-T		1.000			
30S/11E-15 M	ENDOSULFAN	PEAS		10.000	2	4.00
	PARATHION	PEAS		2.000	2	4.00
	SULFUR	PEAS		50.000	2	4.00
30S/11E-16 M	PARATHION	PEAS		2.150	2	5.50
	SULFUR	PEAS		3.750	1	1.50
	TOXAPHENE	PEAS		.750	1	1.50
30S/11E-17 M	PARATHION	CAULIFLOWER		29.000	2	50.00
		LETTUCE		23.800	5	52.00
		PEAS		1.000	1	1.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
30S/11E-17 M	SULFUR	CAULIFLOWER		726.000	2	50.00
		LETTUCE		595.000	5	52.00
	TOXAPHENE	CAULIFLOWER		145.000	2	50.00
		LETTUCE		119.000	5	52.00
30S/11E-20 M	2,4-D	GRAIN		20.006	1	32.00
30S/11E-22 M	MCPA	GARBANZO BEANS		16.875	1	45.00
	2,4-D	SUDANGRASS		45.000	1	45.00
32S/12E-09 M	PARATHION	PEAS		1.200	2	2.00
	SULFUR	PEAS		30.000	2	2.00
	TOXAPHENE	PEAS		6.000	2	2.00
32S/12E-88 M	CHLORDANE	STRUCTURAL CONTROL	16.033			
	DIAZINON		.186			
	DIELDRIN		.168			
	HEPTACHLOR		.045			
	PCP		1.598			
32S/12E-99 M	AMITROLE	RESIDENTIAL CONTR.	1.000			
	BETASAN		.278			
	CASARON		2.500			
	DACTHAL		18.000			
	MALEIC HYDRAZIDE		48.000			
	PARAQUAT		3.222			
	SIMAZINE		.400			
	TRIFLURALIN		1.000			
	2,4-D		.125			
32S/13E-19 M	PARATHION	PEAS		.700	2	3.50
	PHOSDRIN	STRAWBERRIES		1.750	1	2.50
	SULFUR	PEAS		17.500	2	3.50
		STRAWBERRIES		26.250	1	2.50
	TOXAPHENE	PEAS		2.500	1	.50
32S/13E-21 M	DI-SYSTON	MISC. TIMBER TREES		80.000	1	2.00
	PARATHION	CELERY		168.640	22	194.00
	PHOSDRIN	CELERY		83.655	15	134.00
32S/13E-22 M	BTB	CELERY		5.400	1	9.00
	COPPER SULFA-PENTHAH	CELERY		15.200	2	10.00
	DIAZINON	WALNUTS		222.000	3	111.00
	DICAMBA	OATS		4.000	1	1.00
	ENDOSULFAN	CELERY		14.500	3	14.50
		NURSERY PLANTINGS		18.000	1	18.00
	MANEB	CELERY		13.500	1	4.50
	METHYL PARATHION	CELERY		4.500	1	4.50
	NALED	STRAWBERRIES		.960	2	8.00
	PARATHION	LETTUCE		7.000	1	7.00
		TOMATOES		5.000	1	10.00
	PERTHANE	LETTUCE		7.000	1	7.00
	PHOSDRIN	CELERY		5.400	1	9.00
	SULFUR	PEAS		637.000	3	13.00
		TOMATOES		125.000	1	10.00
	SYSTOX	CELERY		5.000	2	10.00
		NURSERY PLANTINGS		9.000	1	18.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
32S/13E-22 M	TEPP	STRAWBERRIES		.027	2	8.00
	TOXAPHENE	TOMATOES		25.000	1	10.00
	ZINEB	CELERY		21.600	1	9.00
		LETTUCE		15.750	1	7.00
	SPREADERS	CELERY		7.856	2	10.00
		LETTUCE		5.499	1	7.00
		NURSERY PLANTINGS		14.140	1	18.00
	ZINC	CELERY		15.200	2	10.00
32S/13E-27 M	BTB	CELERY		122.400	3	17.00
	COPPER SULFA-PENTHAH	ALMONDS		7.600	1	5.00
		CELERY		36.480	4	24.00
	ENDOSULFAN	ALMONDS		5.000	1	5.00
		CELERY		7.000	1	7.00
	PARATHION	PEAS		3.500	2	5.00
	PHOSDRIN	CELERY		17.000	3	17.00
	SULFUR	PEAS		122.500	1	2.50
	SYSTOX	ALMONDS		2.500	1	5.00
		CELERY		3.500	1	7.00
	TOK-25	CELERY		41.000	2	12.00
	SPREADERS	ALMONDS		3.928	1	5.00
		CELERY		18.854	4	24.00
	ZINC	ALMONDS		7.600	1	5.00
		CELERY		36.480	4	24.00
32S/13E-28 M	BTB	CELERY		231.600	7	37.00
	COPPER SULFA-PENTHAH	ALMONDS		6.080	1	4.00
		CELERY		80.560	10	53.00
	ENDOSULFAN	ALMONDS		4.000	1	4.00
		BUSHBERRIES		4.000	1	4.00
		CELERY		60.500	12	60.50
	EPTAM	BEANS, DRY		6.000	1	2.00
	KELTHANE	BUSHBERRIES		4.000	1	4.00
	MANEB	CELERY		43.890	4	19.00
	PARATHION	BEANS, DRY		1.000	1	2.00
		LETTUCE		1.000	1	2.00
		PEAS		7.875	5	11.75
		PEARS, BARTLETT		1.000	1	2.00
		TOMATOES		.875	1	1.75
	PERTHANE	LETTUCE		8.000	3	8.00
	PHOSDRIN	BUSHBERRIES		9.000	1	4.00
		CELERY		39.500	7	37.00
		LETTUCE		6.000	2	6.00
	SULFUR	BEANS, DRY		50.000	1	2.00
		PEAS		376.875	5	11.75
		PEARS, BARTLETT		50.000	1	2.00
		TOMATOES		21.875	1	1.75
	SYSTOX	ALMONDS		2.000	1	4.00
		CELERY		25.500	12	60.50
	TOK-25	CELERY		94.000	5	25.50
	ZINEB	CELERY		1.710	4	19.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
32S/13E-28 M	ZINEB	LETTUCE		12.900	2	6.00
	ZINC SULPHATE	CELERY		9.120	1	6.00
	SPREADERS	ALMONDS		3.142	1	4.00
		BUSHBERRIES		3.142	1	4.00
		CELERY		42.419	10	54.00
		LETTUCE		6.284	3	8.00
	ZINC	ALMONDS		6.080	1	4.00
		CELERY		118.940	15	78.50
	COPPER	CELERY		29.260	4	19.50
32S/13E-29 M	CHLOROPICRIN	FALLOWLAND		2,158.350	3	23.00
	DNBP	CABBAGE		3.680	1	3.00
	KELTHANE	STRAWBERRIES		14.000	1	14.00
	METHYL BROMIDE	FALLOWLAND		5,276.650	3	23.00
	NALED	STRAWBERRIES		176.220	6	87.00
	PHOSDRIN	STRAWBERRIES		71.936	9	127.00
	TEPP	STRAWBERRIES		134.870	16	200.00
	SPREADERS	STRAWBERRIES		10.998	1	14.00
32S/13E-30 M	NALED	STRAWBERRIES		66.330	2	33.50
	PETROLEUM SOLVENTS	STRAWBERRIES		9.749	1	11.50
	PHOSDRIN	PEAS		.375	1	1.00
		STRAWBERRIES		28.422	5	64.00
	SYSTOX	STRAWBERRIES		4.313	1	11.50
	TEPP	STRAWBERRIES		26.255	6	67.50
	2,4-D	OATS		1.876	1	5.00
32S/13E-31 M	DIMETHOATE	CABBAGE		3.828	1	7.00
	ENDOSULFAN	CABBAGE		17.661	2	10.00
		CELERY		9.800	1	14.00
		PEAS		2.400	1	3.00
	MANEB	CABBAGE		6.300	1	3.00
		CELERY		29.400	1	14.00
		PEAS		7.200	1	3.00
	METHYL PARATHION	CABBAGE		1.313	1	7.00
		CELERY		9.800	1	14.00
		ENDIVE		.563	1	3.00
		LETTUCE		.563	1	3.00
		PEAS		2.400	1	3.00
	PARATHION	CABBAGE		7.525	3	14.00
		CELERY		54.555	18	94.00
		ENDIVE		1.125	1	3.00
		LETTUCE		1.125	1	3.00
		NURSERY PLANTINGS		7.700	2	11.00
		PEAS		7.750	5	12.00
	SULFUR	PEAS		37.500	2	1.00
	SYSTOX	CABBAGE		2.500	3	8.00
		CELERY		7.000	6	28.00
		LETTUCE		3.000	3	12.00
	TOXAPHENE	CABBAGE		21.000	1	4.00
		CELERY		210.105	7	48.50
		NURSERY PLANTINGS		57.750	2	11.00

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32S/13E-31 M	TOXAPHENE	PEAS		7.500	2	1.00
	ZINEB	CABBAGE		8.400	1	4.00
		CELERY		91.350	7	45.00
		NURSERY PLANTINGS		23.100	2	11.00
32S/13E-32 M	BTB	CABBAGE		127.630	9	36.50
		CELERY		10.320	3	43.00
		NAPA CABBAGE		28.800	1	4.00
	CDEC	CABBAGE		20.000	2	5.00
	COPPER SULFA-PENTHAH	CELERY		155.040	8	70.50
	DBCP	CABBAGE		584.640	8	25.00
	DI-SYSTON	LETTUCE		7.999	1	6.00
	ENDOSULFAN	BUSHBERRIES		3.000	1	3.00
		CABBAGE		32.500	7	32.50
		CAULIFLOWER		10.000	1	10.00
		CELERY		90.500	10	90.50
		STRAWBERRIES		4.000	1	4.00
		NAPA CABBAGE		4.000	1	4.00
	ETHION	STRAWBERRIES		22.500	3	30.00
	KELTHANE	BUSHBERRIES		3.000	1	3.00
		STRAWBERRIES		34.000	4	34.00
	MALATHION	STRAWBERRIES		12.000	1	8.00
	MANEB	CABBAGE		4.620	1	2.00
		CELERY		4.620	1	2.00
		NAPA CABBAGE		9.240	1	4.00
	PERTHANE	LETTUCE		13.500	2	13.50
	PETROLEUM SOLVENTS	CELERY		19,351.500	5	39.50
	PHOSDRIN	BUSHBERRIES		3.000	1	3.00
		CABBAGE		13.450	5	20.50
		CELERY		43.000	3	43.00
		LETTUCE		13.500	2	13.50
		STRAWBERRIES		4.000	1	4.00
	SULFUR	PEAS		245.000	1	5.00
	SYSTOX	CABBAGE		21.750	10	43.50
		CAULIFLOWER		5.000	1	10.00
		CELERY		36.250	9	72.50
		NAPA CABBAGE		2.000	1	4.00
	TEPP	STRAWBERRIES		29.550	3	30.00
	TOK-25	CABBAGE		16.000	1	5.00
		CELERY		240.000	11	65.50
	ZINEB	CABBAGE		57.030	5	29.00
		CELERY		.180	1	2.00
		LETTUCE		27.675	2	13.50
		NAPA CABBAGE		.360	1	4.00
	SPREADERS	CABBAGE		32.601	8	41.50
		CAULIFLOWER		7.856	1	10.00
		CELERY		6.284	1	8.00
		LETTUCE		10.605	2	13.50
		STRAWBERRIES		2.989	1	4.00
	NITROGEN ELEMENTAL	CABBAGE		3,262.400	11	41.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
32S/13E-32 M	NITROGEN ELEMENTAL	LETTUCE		399.960	1	6.00
	PHOSPHORUS PENTOXIDE	CABBAGE		3,262.400	11	41.00
		LETTUCE		399.960	1	6.00
	POTASSIUM ELEMENTAL	CABBAGE		3,262.400	11	41.00
		LETTUCE		399.960	1	6.00
	ZINC	CELERY		220.400	11	113.50
	COPPER	CELERY		65.360	3	43.00
32S/13E-33 M	BALAN	LETTUCE		2.250	1	2.00
	BTB	CELERY		303.360	5	46.00
	COPPER HYDROXIDE	CELERY		1.800	1	12.00
	COPPER SULFA-PENTHAH	ALMONDS		39.520	2	26.00
		CELERY		205.960	12	102.00
	ENDOSULFAN	ALMONDS		26.000	2	26.00
		CELERY		153.000	16	156.00
	MANEB	CELERY		132.825	4	57.50
	METHYL PARATHION	CELERY		6.000	1	12.00
	PETROLEUM SOLVENTS	CELERY		13,732.250	4	27.00
	PHOSDRIN	BRUSSEL SPROUTS		.875	1	1.25
		CELERY		66.000	8	66.00
	SULFUR	NURSERY PLANTINGS		588.000	1	12.00
	SYSTOX	ALMONDS		13.000	2	26.00
		CELERY		55.625	14	140.00
		LETTUCE		2.500	3	10.00
	TOK-25	ALMONDS		32.000	1	8.00
		CELERY		557.200	17	145.50
	TOXAPHENE	CELERY		48.000	1	12.00
	ZINEB	CELERY		5.175	4	57.50
	2,4-D	MISC. TIMBER TREES		8.000	1	4.00
	SPREADERS	ALMONDS		20.425	2	26.00
		CELERY		59.310	8	75.50
	ZINC	ALMONDS		39.520	2	26.00
		CELERY		2,233.290	18	202.50
	COPPER	CABBAGE		73.150	1	22.00
		CELERY		286.330	6	100.50
32S/13E-88 M	CALCIUM ARSENATE	STRUCTURAL CONTROL	.481			
	CHLORDANE		295.203			
	DIAZINON		1.509			
	DIELDRIN		.927			
	HEPTACHLOR		.006			
	PCP		.175			
32S/13E-99 M	AMITROLE	RESIDENTIAL CONTR.	1.125			
	CARBARYL		5.000			
	CHLORDANE		33.041			
	MALEIC HYDRAZIDE		128.000			
	SIMAZINE		2.000			
	SPREADERS		38.617			
01N/22W-06 S	BUTRAN	LETTUCE		75.600	2	42.00
	BTB	CABBAGE		10.819	2	35.00
		CELERY		105.750	2	141.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/22W-06 S	BTB	LETTUCE		87.450	8	119.00
		PEPPERS, BELL		12.600	1	21.00
	CAPTAN	SPINACH		499.000	2	35.00
	CARBARYL	CABBAGE		17.600	1	11.00
		PEPPERS, BELL		43.000	1	21.50
	COPPER SULFA-PENTHAH	CABBAGE		1.650	1	11.00
	DIMETHOATE	BEANS, GREEN LIMA		15.018	1	30.00
		SPINACH		3.505	2	14.00
		PEPPERS, BELL		4.006	1	12.00
		SPINACH		.668	1	2.00
	DI-SYSTON	FALLOWLAND		27.435	2	25.00
	DYRENE	CELERY		259.000	4	122.00
	ENDOSULFAN	BROCCOLI		30.625	1	35.00
		CABBAGE		36.750	3	49.00
		CELERY		11.000	1	22.00
		LETTUCE		42.000	2	42.00
		NURSERY PLANTINGS		10.000	2	10.00
		PEPPERS, BELL		22.800	2	33.00
		SPINACH		16.500	2	22.00
	MANEB	CELERY		133.200	4	84.00
	META-SYSTOX-R	CABBAGE		7.334	1	11.00
	METHOMYL	CABBAGE		5.850	1	13.00
	METHYL PARATHION	BROCCOLI		30.625	1	35.00
		CABBAGE		19.000	2	24.50
		CELERY		44.000	2	44.00
		LETTUCE		42.000	2	42.00
		NURSERY PLANTINGS		10.000	2	10.00
		PEPPERS, BELL		16.800	1	21.00
		SPINACH		16.500	2	22.00
	NALED	SPINACH		38.000	1	19.00
	PARAQUAT	PEPPERS, BELL		17.387	1	21.50
	PARATHION	BEANS, DRY		74.100	3	114.00
		SPINACH		5.700	2	18.00
	PHOSDRIN	CABBAGE		32.125	4	59.00
		CELERY		342.750	9	389.00
		LETTUCE		87.450	8	119.00
		SPINACH		21.000	3	34.00
	PROMETRYNE	CELERY		12.800	1	10.00
	SULFUR	CABBAGE		11.000	2	22.00
	SYSTOX	CABBAGE		6.500	1	13.00
	TOK-25	FALLOWLAND		20.000	1	5.00
	TOXAPHENE	BEANS, GREEN LIMA		180.000	1	30.00
		CELERY		198.000	2	44.00
	ZINEB	CABBAGE		13.750	2	22.00
		CELERY		2,659.200	10	446.00
	ZIRAM	CELERY		90.000	1	30.00
	SPREADERS	CELERY		6.180	3	46.00
	NITROGEN ELEMENTAL	FALLOWLAND		906.290	2	25.00
	PHOSPHORUS PENTOXIDE	FALLOWLAND		3,954.720	2	25.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/22W-06 S	COPPER	CABBAGE		1.100	1	11.00
01N/22W-07 S	AMITROLE	FALLOWLAND		1.000	1	1.00
	BOTRAN	LETTUCE		38.700	2	21.50
	BTB	BROCCOLI		4.800	1	40.00
		CABBAGE		26.250	3	40.00
		CELERY		33.750	2	45.00
		LETTUCE		53.940	14	115.50
		SPINACH		3.600	1	6.00
	CAPTAN	LETTUCE		18.500	5	37.00
		SPINACH		170.000	2	80.00
	CARBARYL	TOMATOES		128.000	1	32.00
	CHLORDANE	FALLOWLAND		36.000	1	18.00
	DALAPON	FALLOWLAND		4.250	1	1.00
	DDT	CABBAGE		57.500	3	40.00
		TOMATOES		18.000	1	12.00
	DIAZINON	PEPPERS, BELL		2.640	1	4.00
		SPINACH		33.000	2	21.00
		TOMATOES		6.000	1	12.00
	DIMETHOATE	SPINACH		5.509	1	22.00
	DYRENE	CELERY		117.600	3	56.00
	ENDOSULFAN	CABBAGE		47.000	4	55.00
		CELERY		26.000	2	26.00
		LETTUCE		44.500	5	49.00
		SPINACH		46.125	3	61.50
		TOMATOES		32.000	1	32.00
	MANEB	CELERY		882.240	7	183.00
		TOMATOES		32.000	1	40.00
	METHOMYL	TOMATOES		18.000	1	40.00
	METHYL PARATHION	CABBAGE		12.000	1	15.00
		CELERY		62.000	4	62.00
		LETTUCE		44.500	5	49.00
		SPINACH		29.250	2	39.00
		TOMATOES		15.000	1	40.00
	NALED	SPINACH		100.000	1	50.00
	PARATHION	BEANS, DRY		39.000	2	52.00
		CABBAGE		30.000	2	30.00
		SPINACH		16.875	1	22.50
		TOMATOES		36.000	2	52.00
	PHOSDRIN	BROCCOLI		54.061	2	80.00
		CABBAGE		32.250	4	55.00
		CELERY		73.350	4	91.00
		LETTUCE		71.750	14	115.50
		PEPPERS, BELL		1.980	1	4.00
		SPINACH		23.850	3	42.00
	PROMETRYNE	CELERY		23.040	1	18.00
	RO-NEET	SPINACH		135.135	1	33.00
	SYSTOX	CABBAGE		20.000	3	40.00
	TELONE	TOMATOES		13,216.500	2	69.75
	TOK-25	BROCCOLI		80.000	1	20.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/22W-07 S	TOK-25	PARSLEY		80.000	1	20.00
	TOXAPHENE	CABBAGE		100.000	3	40.00
		CELERY		81.000	1	18.00
		TOMATOES		36.000	1	12.00
	ZINEB	CELERY		4,365.000	13	669.00
	2,4-D	FALLOWLAND		.960	1	1.00
	4-MCB	PEAS		22.000	1	22.00
01N/22W-18 S	BTB	BROCCOLI		26.250	1	35.00
	DIAZINON	WASTE GROUND		30.000	1	40.00
	PHOSDRIN	BROCCOLI		26.250	1	35.00
01N/22W-20 S	ARAMITE	MISC. TIMBER TREES		4.072	1	4.00
	META-SYSTOX-R	CABBAGE		.750	1	3.00
	METHOMYL	CABBAGE		1.350	1	3.00
	METHYL PARATHION	CELERY		16.255	1	26.00
	PARATHION	CABBAGE		2.250	1	3.00
01N/22W-21 S	AMITROLE	FALLOWLAND		32.000	1	8.00
	BROMACIL	FALLOWLAND		12.800	1	8.00
	CAPTAN	SPINACH		28.000	1	14.00
	DIAZINON	NURSERY PLANTINGS		2.250	1	3.00
	DIURON	FALLOWLAND		19.200	1	8.00
	ENDOSULFAN	SPINACH		5.250	1	7.00
	METHYL PARATHION	SPINACH		10.850	2	21.00
	PARATHION	BEANS, DRY		38.400	3	64.00
	PHOSDRIN	SPINACH		22.400	2	28.00
01N/22W-22 S	BTB	CABBAGE		12.000	1	20.00
		LETTUCE		3.000	1	5.00
		SPINACH		2.775	2	5.00
	DIAZINON	NURSERY PLANTINGS		4.250	3	8.50
	DIMETHOATE	BEANS, GREEN LIMA		25.531	1	51.00
	DI-SYSTON	TOMATOES		34.500	1	23.00
	ENDOSULFAN	CABBAGE		9.000	1	9.00
		PEPPERS, CHILI		10.500	1	21.00
	MALATHION	LETTUCE		3.960	1	3.00
	MANEB	CELERY		31.200	1	13.00
		NURSERY PLANTINGS		13.600	3	8.50
	META-SYSTOX-R	NURSERY PLANTINGS		5.814	3	8.50
		PEPPERS, CHILI		7.875	1	21.00
	METHYL PARATHION	CABBAGE		9.000	1	9.00
	PARATHION	BEANS, DRY		18.750	1	25.00
	PERTHANE	LETTUCE		9.900	1	3.00
	PHOSDRIN	CABBAGE		12.000	1	20.00
		CELERY		9.750	1	13.00
		LETTUCE		3.000	1	5.00
		SPINACH		2.775	2	5.00
	SYSTOX	BEANS, GREEN LIMA		12.375	1	33.00
01N/22W-27 S	BOTRAN	LETTUCE		155.025	5	89.00
	BTB	BROCCOLI		18.750	1	25.00
		CABBAGE		27.600	3	39.00
		CELERY		67.560	5	122.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/22W-27 S	BTB	LETTUCE		49.350	5	67.00
	CAPTAN	SPINACH		90.750	3	61.00
	CARBARYL	SPINACH		60.800	1	38.00
	D-D MIXTURE	FALLOWLAND		3,960.000	1	20.00
	DDT	NURSERY PLANTINGS		63.000	4	38.00
		TOMATOES		28.500	1	19.00
	DIAZINON	NURSERY PLANTINGS		3.000	1	6.00
	DIMETHOATE	NURSERY PLANTINGS		.501	1	1.00
	DI-SYSTON	BROCCOLI		56.250	1	25.00
		LETTUCE		5.063	1	4.50
		TOMATOES		87.000	2	37.00
	DYRENE	CELERY		912.000	16	490.50
		NOT REPORTED		68.000	1	34.00
	ENDOSULFAN	CABBAGE		17.800	2	20.00
		CELERY		101.000	4	74.50
		LETTUCE		148.625	9	151.50
		NURSERY PLANTINGS		181.000	12	182.00
		SPINACH		47.500	3	76.00
		TOMATOES		33.830	2	34.00
	EPTAM	POTATOES		180.000	3	60.00
	KELTHANE	BEANS, DRY		1.500	1	1.25
		BEANS, GREEN LIMA		4.410	2	5.00
	MANEB	CELERY		113.600	4	71.00
		NURSERY PLANTINGS		54.400	3	31.00
	META-SYSTOX-R	NURSERY PLANTINGS		23.221	3	42.00
	METHOMYL	CABBAGE		16.200	3	36.00
		NURSERY PLANTINGS		2.700	1	6.00
	METHYL PARATHION	CABBAGE		31.300	4	38.00
		CELERY		232.000	8	232.00
		LETTUCE		148.625	9	151.50
		NURSERY PLANTINGS		180.000	10	180.00
		SPINACH		66.500	3	76.00
		TOMATOES		17.000	1	17.00
	NALED	BEANS, DRY		2.000	1	1.25
		CELERY		71.000	2	71.00
		NURSERY PLANTINGS		1.500	1	1.00
		NOT REPORTED		34.000	1	34.00
	PARATHION	BEANS, DRY		63.000	3	98.00
		BEANS, GREEN LIMA		87.550	4	120.00
		NURSERY PLANTINGS		8.650	2	22.00
		PEPPERS, BELL		1.053	1	20.00
		SPINACH		9.600	1	24.00
		TOMATOES		25.470	2	36.00
	PHOSDRIN	BEANS, GREEN LIMA		18.098	1	31.00
		BROCCOLI		18.750	1	25.00
		CABBAGE		21.000	2	28.00
		CELERY		367.250	22	541.50
		LETTUCE		49.350	5	67.00
		SPINACH		55.500	4	85.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/22W-27 S	PHOSDRIN	NOT REPORTED		17.000	1	34.00
	PLANAVIN	FALLOWLAND		32.720	1	50.00
	PROMETRYNE	CELERY		42.240	1	33.00
	SYSTOX	CABBAGE		9.000	1	18.00
	TELONE	FALLOWLAND		10,203.930	4	67.10
	TOK-25	NURSERY PLANTINGS		212.000	3	53.00
	TOXAPHENE	NURSERY PLANTINGS		62.000	3	22.00
		PEPPERS, BELL		120.000	1	20.00
		TOMATOES		141.150	2	36.00
	ZINEB	CELERY		297.000	5	99.00
	4-MCB	PEAS		26.000	1	26.00
01N/22W-28 S	PARATHION	BEANS, GREEN LIMA		21.523	1	35.00
		CITRUS		34.800	1	58.00
	SYSTOX	BEANS, GREEN LIMA		8.250	1	22.00
01N/22W-30 S	ENDOSULFAN	SPINACH		11.550	1	21.00
	METHYL PARATHION	SPINACH		18.150	2	36.00
	PARATHION	SPINACH		3.300	1	15.00
01N/22W-33 S	MANEB	CELERY		19.200	1	12.00
	METHYL PARATHION	BEANS, DRY		54.000	1	72.00
	PARATHION	BEANS, DRY		57.750	2	77.00
	PHOSDRIN	CELERY		12.000	1	12.00
01N/22W-34 S	BALAN	LETTUCE		3.750	1	5.00
	CAPTAN	NURSERY PLANTINGS		32.000	1	8.00
	IPC	LETTUCE		7.500	1	5.00
	TOK-25	NURSERY PLANTINGS		60.000	1	15.00
	KERB	LETTUCE		7.500	1	5.00
01N/22W-35 S	BTB	BROCCOLI		6.000	1	10.00
	DDT	NURSERY PLANTINGS		27.000	1	27.00
	ENDOSULFAN	BROCCOLI		10.000	1	10.00
	MANEB	NURSERY PLANTINGS		81.600	2	29.00
	META-SYSTOX-R	NURSERY PLANTINGS		21.043	1	27.00
	METHYL PARATHION	BROCCOLI		10.000	1	10.00
	PARATHION	NURSERY PLANTINGS		16.800	1	21.00
	PHOSDRIN	NURSERY PLANTINGS		4.800	1	8.00
01N/22W-36 S	CAPTAN	STRAWBERRIES		76.000	1	38.00
	D-D MIXTURE	FALLOWLAND		11,385.000	1	50.00
	DI-SYSTON	TOMATOES		15.000	1	20.00
01N/22W-88 S	ALDRIN	STRUCTURAL CONTROL	300.000			
	CARBARYL		.100			
	CHLORDANE		134.012			
	DDVP		.407			
	DELNAV		.870			
	DIAZINON		3.141			
	DIELDRIN		7.200			
	DURSBAN		.704			
	KEPONE		.002			
	LINDANE		.475			
	MALATHION		10.391			
	METALDEHYDE		.110			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01N/22W-88 S	PIPERONYL BUTOXIDE	STRUCTURAL CONTROL	.026			
	PYRETHRINS		1.250			
	VIKANE		19.800			
	METHYL SALICYLATE		1.863			
01N/22W-99 S	AMITROLE	RESIDENTIAL CONTR.	65.700			
	BROMACIL		1.220			
	CARBARYL		4.260			
	CHLORDANE		23.648			
	DIAZINON		7.687			
	DIMETHOATE		1.544			
	MALATHION		3.888			
	NAPHTHAL ACETIC ACID		.040			
01N/23W-88 S	CHLORDANE	STRUCTURAL CONTROL	320.500			
02N/23W-03 S	AMITROLE	FALLOWLAND		5.600	2	2.00
	BROMACIL	FALLOWLAND		3.200	1	1.00
	DIURON	FALLOWLAND		3.200	1	1.00
	SIMAZINE	FALLOWLAND		2.400	1	1.00
	SUMMER OILS	LEMONS		138.254	1	2.00
	SPREADERS	FALLOWLAND		1.562	2	2.00
02N/23W-04 S	AMITROLE	FALLOWLAND		3.600	1	1.00
	BROMACIL	FALLOWLAND		3.200	1	1.00
	DIURON	FALLOWLAND		3.200	1	1.00
		WEED		3.200	1	2.00
	FENAC	WEED		6.272	1	2.00
	HYVAR	WEED		3.200	1	2.00
	2,4-D	WEED		1.488	1	2.00
	SPREADERS	FALLOWLAND		1.198	1	1.00
		WEED		2.366	1	2.00
02N/23W-10 S	D-D MIXTURE	FALLOWLAND		5,175.720	2	20.00
02N/23W-11 S	BTB	CELERY		42.570	7	129.00
	DYRENE	CELERY		404.860	13	273.00
	ENDOSULFAN	CELERY		14.000	1	28.00
	MANEB	CELERY		113.520	4	72.00
	METHYL PARATHION	CELERY		217.000	10	217.00
	NALED	CELERY		64.000	4	71.00
	PETROLEUM SOLVENTS	FALLOWLAND		8,379.000	1	21.00
	PHOSDRIN	CELERY		197.750	17	346.00
	PROMETRYNE	CELERY		44.800	2	35.00
	TOK-25	CELERY		394.000	4	68.00
	ZINEB	CELERY		169.680	3	84.00
02N/23W-14 S	DIPHENAMID	FALLOWLAND		157.500	2	35.00
	ENDOSULFAN	NURSERY PLANTINGS		33.000	3	33.00
	METHYL PARATHION	NURSERY PLANTINGS		33.000	3	33.00
02N/23W-23 S	DBCP	LEMONS		516.000	1	20.00
	PARATHION	BEANS, DRY		442.500	1	59.00
02N/23W-25 S	BTB	CABBAGE		9.750	1	13.00
		CELERY		143.370	9	234.00
		LETTUCE		31.200	3	52.00
	CAPTAN	LETTUCE		10.000	1	10.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
02N/23W-25 S	CARBARYL	PEPPERS, BELL		60.000	1	30.00
		TOMATOES		86.000	1	43.00
	DBCP	FALLOWLAND		946.000	1	27.50
	DIAZINON	CUCUMBERS		12.800	1	32.00
	DYRENE	CELERY		587.000	9	215.00
	ENDOSULFAN	CABBAGE		4.375	1	5.00
		CELERY		72.000	4	97.00
		TOMATOES		94.200	3	116.00
	ETHYLENE BROMIDE EDB	FALLOWLAND		847.578	1	20.00
	KARATHANE	CUCUMBERS		25.600	1	32.00
	MANEB	CELERY		204.240	6	132.00
		TOMATOES		68.800	1	43.00
	METHOMYL	CABBAGE		5.850	1	13.00
	METHYL PARATHION	CABBAGE		10.875	2	18.00
		CELERY		171.000	7	171.00
		TOMATOES		43.000	1	43.00
	NALED	CELERY		203.840	7	176.00
	PARATHION	BEANS, DRY		30.000	1	50.00
		CABBAGE		5.469	2	10.00
		CUCUMBERS		7.000	2	20.00
		LETTUCE		2.000	1	4.00
		TOMATOES		26.918	2	42.00
	PHOSDRIN	CABBAGE		31.050	4	37.00
		CELERY		382.000	17	512.00
		COLLARDS		2.000	1	4.00
		LETTUCE		95.500	17	155.00
		SPINACH		19.600	8	34.00
	PROMETRYNE	CELERY		102.400	3	80.00
	TOXAPHENE	TOMATOES		148.500	1	30.00
	ZINEB	CELERY		1,617.960	18	653.00
02N/23W-35 S	DIURON	DITCHES		15.000	1	5.00
	HYVAR	DITCHES		24.000	1	5.00
02N/23W-36 S	BOTRAN	CELERY		25.000	1	10.00
	BTB	CELERY		172.110	12	421.00
		LETTUCE		.720	1	6.00
	CAPTAN	LETTUCE		3.000	1	6.00
	DYRENE	CELERY		1,079.220	21	586.00
	ENDOSULFAN	CELERY		13.400	1	26.80
		TOMATOES		32.250	1	43.00
	KELTHANE	BEANS, DRY		105.000	2	100.00
	MANEB	CELERY		142.422	3	55.80
	METHYL PARATHION	CELERY		115.800	4	115.80
		TOMATOES		32.250	1	43.00
	NALED	CELERY		252.000	8	252.00
	PARATHION	BEANS, DRY		70.000	2	100.00
	PHOSDRIN	CELERY		560.500	25	784.00
		LETTUCE		4.500	1	6.00
	PROMETRYNE	CELERY		34.560	1	27.00
	TELONE	CELERY		24.000	1	12.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
02N/23W-36 S	TOXAPHENE	BEANS, DRY		525.000	2	100.00
	ZINEB	CELERY		934.458	9	355.80
02N/23W-88 S	ALDRIN	STRUCTURAL CONTROL	10.000			
	CHLORDANE		301.100			
	DDVP		.250			
	DIAZINON		7.250			
	DIELDRIN		20.738			
	MALATHION		33.750			
	METHYL SALICYLATE		.621			
02N/23W-99 S	AMITROLE	RESIDENTIAL CONTR.	42.300			
	ATRAZINE		18.400			
	BROMACIL		10.365			
	CALCIUM HYDROXIDE		.200			
	CAPTAN		.500			
	CARBARYL		38.775			
	CHLORDANE		87.600			
	COPPER SULFA-PENTHAH		.200			
	KELTHANE		2.800			
	MALATHION		1.200			
	META-SYSTOX-R		.128			
	NAPHTHAL ACETIC ACID		.232			
	SIMAZINE		5.130			
	SUMMER OILS		2.344			
	2,4-D		34.000			
03N/02W-13 S	2,4-D	PASTURE, MEADOW		1.407	1	5.00
03N/09W-99 S	CARBARYL	RESIDENTIAL CONTR.	15.000			
	MALATHION		15.000			
03N/23W-99 S	BROMACIL	RESIDENTIAL CONTR.	1.030			
	DALAPON		2,803.580			
	DIURON		19.200			
	2,4-D		1,052.000			
03N/24W-16 S	PARATHION	BEANS, GREEN LIMA		6.000	1	10.00
03N/24W-99 S	AMITROLE	RESIDENTIAL CONTR.	27.900			
	BROMACIL		1.110			
04N/25W-19 S	AMITROLE	WEED		36.000	1	25.00
	CALCIUM HYDROXIDE	ORNAMENTAL PLANTS		2.034	3	.47
	CARBARYL	MISC. TIMBER TREES		12.000	1	1.50
	COPPER SULFA-PENTHAH	ORNAMENTAL PLANTS		2.034	3	.47
		NOT REPORTED		.660	1	.11
	DIAZINON	NURSERY PLANTINGS		.440	1	.11
		OLIVES		2.250	1	1.50
		ORNAMENTAL PLANTS		5.950	3	4.60
		PINE, SUGAR		4.390	4	2.45
	DIELDRIN	NURSERY PLANTINGS		1.250	2	1.00
	META-SYSTOX-R	ORNAMENTAL PLANTS		4.250	2	5.50
	MORESTAN	NURSERY PLANTINGS		.750	1	1.00
		ORNAMENTAL PLANTS		1.203	3	1.16
	PETROLEUM SOLVENTS	AVOCADOS		3,840.375	3	17.50
		LEMONS		24,683.872	19	202.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/25W-19 S	PETROLEUM SOLVENTS	ORANGES		46.085	1	.50
	SIMAZINE	LEMONS		25.600	2	32.00
	2,4-D	TURF		24.000	1	8.00
04N/25W-20 S	CARBARYL	NURSERY PLANTINGS		4.800	1	1.50
	CHLOROBENZILATE	LEMONS		160.000	1	64.00
	CHLOROPICRIN	NURSERY PLANTINGS		25.000	1	.25
	DIAZINON	NURSERY PLANTINGS		6.000	2	3.00
	DIURON	LEMONS		2.800	1	5.00
	PETROLEUM SOLVENTS	FALLOWLAND		1,755.600	1	8.00
		LEMONS		17,006.245	9	132.50
	SUMMER OILS	LEMONS		2,672.901	1	29.00
	TEPP	NURSERY PLANTINGS		1.290	1	3.50
	2,4-D	AVOCADOS		15.000	1	30.00
		LEMONS		9.500	2	11.00
	PHOSPHORUS PENTOXIDE	LEMONS		6.480	1	4.00
		MISCELANEUS FRUITS		8.640	1	1.00
	ZINC	LEMONS		3.240	1	4.00
		MISCELANEUS FRUITS		4.320	1	1.00
	COPPER	LEMONS		8.700	1	4.00
		MISCELANEUS FRUITS		11.600	1	1.00
04N/25W-25 S	CALCIUM HYDROXIDE	LEMONS		315.900	2	21.00
	COPPER SULFA-PENTHAH	LEMONS		29.400	2	14.00
	COPPER SULFATE-BASIC	LEMONS		21.600	1	5.00
	HYDRATED LIME	LEMONS		.280	2	14.00
	PARAQUAT	LEMONS		21.753	1	9.00
	PETROLEUM SOLVENTS	LEMONS		5,953.135	7	50.50
	SIMAZINE	LEMONS		18.000	1	9.00
	2,4-D	LEMONS		6,877.440	2	25.00
		PASTURE, MEADOW		7.000	1	7.00
	SPREADERS	LEMONS		7.000	2	14.00
04N/25W-26 S	AMITROLE	NOT REPORTED		3.000	1	.75
	COPPER OXYCHLORIDE	AVOCADOS		42.000	1	1.00
	COPPER SULFA-PENTHAH	LEMONS		9.500	2	4.50
	COPPER SULFATE-BASIC	MISCELANEUS FRUITS		5.800	1	1.00
	HYDRATED LIME	LEMONS		.100	2	4.50
		MISCELANEUS FRUITS		7.200	1	1.00
	PARAQUAT	LEMONS		12.488	2	15.50
	PETROLEUM SOLVENTS	AVOCADOS		4,827.900	3	22.00
		LEMONS		18,121.119	19	110.75
		NOT REPORTED		665.000	3	2.50
	SIMAZINE	AVOCADOS		14.400	2	18.00
		LEMONS		36.880	6	56.50
		NOT REPORTED		2.000	3	2.50
	2,4-D	FALLOWLAND		16.500	1	5.50
		NOT REPORTED		6.000	1	1.50
	2,4,5-T	AVOCADOS		3.250	1	13.00
		WEED		2.500	1	2.00
	SPREADERS	LEMONS		12.283	4	20.00
		NOT REPORTED		2.702	2	2.25

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/25W-27 S	AMITROLE	WEED		1.500	1	.75
		NOT REPORTED		2.400	1	1.50
	CARBARYL	MISC. TIMBER TREES		19.200	2	2.00
	CHLOROBENZILATE	LEMONS		21.000	1	14.00
	COPPER SULFA-PENTHAH	LEMONS		31.900	1	11.00
	DIURON	LEMONS		6.272	2	32.00
	DORMANT OILS	LEMONS		1,537.910	1	11.00
	HYDRATED LIME	LEMONS		.330	1	11.00
	PARAQUAT	AVOCADOS		6.533	3	10.00
		LEMONS		.750	1	1.50
		MISC. TIMBER TREES		16.921	1	7.00
	PETROLEUM SOLVENTS	AVOCADOS		1,463.000	2	5.50
		LEMONS		24,352.121	14	174.25
		NOT REPORTED		532.000	1	2.00
	SIMAZINE	AVOCADOS		14.400	3	10.50
		LEMONS		16.600	2	20.75
		MISC. TIMBER TREES		25.200	1	7.00
		NOT REPORTED		4.000	2	3.50
	SUMMER OILS	LEMONS		3,087.396	2	18.00
	2,4-D	FALLOWLAND		4.000	1	2.00
		LEMONS		71.500	3	78.00
	SPREADERS	AVOCADOS		2.999	2	5.00
		LEMONS		11.843	2	12.50
		WEED		.450	1	.75
		NOT REPORTED		3.593	1	1.50
04N/25W-28 S	COPPER SULFA-PENTHAH	LEMONS		16.000	1	5.00
	D-D MIXTURE	LEMONS		2,257.200	1	1.90
	DORMANT OILS	LEMONS		5,960.990	2	42.00
	HYDRATED LIME	LEMONS		.075	1	5.00
	PARAQUAT	LEMONS		8.655	2	8.75
		WEED		2.422	1	2.00
	PETROLEUM SOLVENTS	LEMONS		19,545.018	16	169.50
	SIMAZINE	LEMONS		76.000	1	9.50
	2,4-D	FALLOWLAND		8.000	1	16.00
		LEMONS		51.750	5	63.00
		WEED		28.000	1	28.00
	SPREADERS	LEMONS		8.938	3	13.75
04N/25W-29 S	PARAQUAT	AVOCADOS		4.833	1	2.00
	PETROLEUM SOLVENTS	LEMONS		2,169.264	6	28.50
	2,4-D	AVOCADOS		2.000	1	2.00
04N/25W-30 S	PETROLEUM SOLVENTS	LEMONS		1,027.026	1	8.00
04N/25W-33 S	GUTHION	NURSERY PLANTINGS		3.000	1	4.00
04N/25W-34 S	DORMANT OILS	LEMONS		7,902.443	3	42.00
	PETROLEUM SOLVENTS	LEMONS		10,151.777	5	90.00
	RUTENONE	LEMONS		8.475	1	15.50
	SUMMER OILS	LEMONS		1,726.320	1	15.50
	2,4-D	LEMONS		10.000	1	20.00
04N/25W-35 S	CARBARYL	MISC. TIMBER TREES		8.000	1	1.00
	PARAQUAT	LEMONS		35.941	2	23.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/25W-35 S	PARAQUAT	MISC. TIMBER TREES		14.000	1	14.00
	PETROLEUM SOLVENTS	FALLOWLAND		316.008	1	4.00
		LEMONS		8,785.682	6	73.00
	SIMAZINE	LEMONS		35.200	1	22.00
		MISC. TIMBER TREES		22.400	1	14.00
	SPREADERS	LEMONS		41.913	2	23.00
04N/25W-88 S	CARBOPHENOTHION	STRUCTURAL CONTROL	2.769			
	CHLORDANE		33.444			
	DALAPON		.425			
	DDVP		.500			
	DIAZINON		2.375			
	DIELDRIN		27.048			
	DURSBAN		.280			
	ETHYLENE BROMIDE EDB		73.338			
	LINDANE		.750			
	PARAQUAT		.900			
	PETROLEUM SOLVENTS		9.975			
	SIMAZINE		3.750			
04N/25W-99 S	AMITROLE	RESIDENTIAL CONTR.	27.956			
	BROMACIL		.640			
	CARBARYL		182.700			
	CARBOPHENOTHION		.086			
	CHLORDANE		25.000			
	CHLOROBENZILATE		6.000			
	COPPER OXYCHLORIDE		118.650			
	DACTHAL		1.407			
	DALAPON		8.819			
	DIAZINON		4.094			
	KELTHANE		3.243			
	LEAD ARSENATE -BASIC		81.120			
	MALATHION		18.646			
	META-SYSTOX-R		.047			
	NALED		89.750			
	PARAQUAT		15.067			
	SIMAZINE		49.350			
	PURAT SPRAY		.104			
	SPREADERS		22.917			
04N/26W-13 S	PETROLEUM SOLVENTS	LEMONS		816.354	1	8.00
04N/26W-14 S	PETROLEUM SOLVENTS	AVOCADOS		438.900	1	2.00
		LEMONS		14,813.974	7	101.00
	SIMAZINE	LEMONS		10.400	1	26.00
	2,4-D	FALLOWLAND		6.000	2	8.00
		LEMONS		44.000	3	44.00
	2,4,5-T	FALLOWLAND		2.000	1	4.00
04N/26W-15 S	FUNDAL	MISC. TIMBER TREES		3.105	1	.69
	PETROLEUM SOLVENTS	LEMONS		5,003.460	1	40.00
	2,4-D	LEMONS		42.000	1	42.00
04N/26W-16 S	LEAD ARSENATE-STAND	TURF		7,020.000	1	50.00
	PETROLEUM SOLVENTS	LEMONS		4,950.792	2	32.00

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04N/26W-16 S	2,4-D	TURF		108.000	2	54.00
04N/26W-17 S	PETROLEUM SOLVENTS	LEMONS		4,345.110	1	40.00
04N/26W-18 S	AMITROLE	WEED		2.000	1	1.00
	PARAQUAT	CITRUS		1,273.125	1	175.00
	SPREADERS	CITRUS		104.786	1	175.00
		WEED		.604	1	1.00
04N/26W-20 S	PETROLEUM SOLVENTS	LEMONS		1,097.250	1	5.00
	SIMAZINE	LEMONS		4.000	1	5.00
04N/26W-23 S	CALCIUM ARSENATE	LEMONS		40.000	1	16.00
	METALDEHYDE	LEMONS		24.000	1	16.00
	PETROLEUM SOLVENTS	LEMONS		11,260.246	5	95.50
	2,4-D	AVOCADOS		4.250	1	17.00
		LEMONS		22.000	1	22.00
04N/26W-24 S	MORESTAN	NURSERY PLANTINGS		.040	1	.02
	PETROLEUM SOLVENTS	LEMONS		503.638	1	9.00
		ORANGES		46.085	1	.50
	2,4-D	AVOCADOS		7.500	1	10.00
04N/26W-88 S	CHLORDANE	STRUCTURAL CONTROL	206.834			
	COPPER NAPHTHENATE		2.000			
	DDT		.064			
	DDVP		.250			
	DIAZINON		5.093			
	DIELDRIN		78.061			
	ETHYLENE BROMIDE EDB		5.677			
	LINDANE		.464			
	PETROLEUM SOLVENTS		4.689			
04N/26W-99 S	AMITROLE	RESIDENTIAL CONTR.	8.338			
	BROMACIL		.255			
	BTB		.304			
	CARBARYL		1,049.621			
	CARBOPHENOTHION		17.538			
	CHLOROBENZILATE		5.883			
	COPPER OXYCHLORIDE		10.500			
	COPPER SULFA-PENTHAH		1.500			
	DACTHAL		2.004			
	DALAPON		.850			
	DDT		.048			
	DIAZINON		5.649			
	DUDINE		39.247			
	KARATHANE		1.108			
	KELTHANE		3.751			
	LEAD ARSENATE -BASIC		1,569.984			
	LINDANE		10.006			
	MALATHION		30.661			
	META-SYSTOX-R		20.000			
	NALED		139.875			
	NAPHTHAL ACETIC ACID		1.701			
	PANOGEN 15		.008			
	PARAQUAT		4.780			

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04N/26W-99 S	PETROLEUM SOLVENTS	RESIDENTIAL CONTR.	643.162			
	SIMAZINE		.984			
	TETRADIFON		.051			
	VAPAM		13.080			
	2,4,5-T		1.696			
	IRON		.160			
	MANGANESE		.288			
	PURAT SPRAY		.912			
	SPREADERS		34.564			
	NITROGEN ELEMENTAL		1.440			
	PHOSPHORUS PENTOXIDE		.640			
	MAGNESUIM		.512			
	ZINC		2.140			
04N/27W-18 S	PARAQUAT	AVOCADOS		4.555	3	5.65
	SIMAZINE	AVOCADOS		.800	1	1.00
	2,4-D	TURF		32.074	2	34.00
	2,4,5-T	TURF		34.430	2	34.00
	SPREADERS	AVOCADOS		3.392	3	5.65
04N/27W-30 S	CARBARYL	MISC. TIMBER TREES		7.200	1	1.00
	DIAZINON	NURSERY PLANTINGS		.540	1	.18
	KELTHANE	NURSERY PLANTINGS		.258	1	.18
	MORESTAN	MISC. TIMBER TREES		2.250	1	1.00
	PARAQUAT	AVOCADOS		1.811	1	2.25
	PETROLEUM SOLVENTS	AVOCADOS		399.000	1	1.50
	TETRADIFON	NURSERY PLANTINGS		.270	1	.18
	SPREADERS	AVOCADOS		1.351	1	2.25
04N/27W-88 S	ALDRIN	STRUCTURAL CONTROL	15.500			
	BAYGON		.170			
	BTB		.140			
	CHLORDANE		769.770			
	COPPER NAPHTHENATE		27.600			
	DDT		1.304			
	DDVP		3.438			
	DELNAV		.293			
	DIAZINON		85.912			
	DIELDRIN		174.492			
	DURSBAN		2.481			
	ETHYLENE BROMIDE EDB		327.107			
	LINDANE		.528			
	MCPA		.494			
	PCP		27.138			
	PETROLEUM SOLVENTS		193.122			
	SILICA AEROGEL		3.813			
	AMMONIUM FLUOSILICAT		.189			
04N/27W-99 S	ACTIDIONE	RESIDENTIAL CONTR.	.001			
	AMITROLE		111.635			
	ANSAR 138		.052			
	BALAN		.613			
	BROMACIL		117.907			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/27W-99 S	BTB	RESIDENTIAL CONTR.	.720			
	CARBARYL		392.800			
	CARBOPHENOTHION		22.712			
	CHLORDANE		52.038			
	CHLOROBENZILATE		3.880			
	COPPER OXYCHLORIDE		115.500			
	COPPER SULFA-PENTHAH		1.084			
	DACTHAL		34.378			
	DALAPON		9.417			
	DIAZINON		1.875			
	DIMETHOATE		6.125			
	DIPHENAMID		.282			
	DUDINE		8.827			
	DSMA		1.824			
	KARATHANE		.250			
	KELTHANE		1.372			
	LEAD ARSENATE -BASIC		579.744			
	LINDANE		7.365			
	MALATHION		18.685			
	MALEIC HYDRAZIDE		1.641			
	MCPA		.156			
	META-SYSTOX-R		13.000			
	NALED		47.016			
	NAPHTHAL ACETIC ACID		.570			
	PANOGEN 15		.008			
	PARAQUAT		22.353			
	PETROLEUM SOLVENTS		466.367			
	SIMAZINE		52.805			
	THIRAM		.094			
	TRIFLURALIN		2.000			
	VAPAM		249.832			
	2,4-D		.163			
	2,4,5-T		.676			
	IRON		.030			
	MANGANESE		.054			
	PURAT SPRAY		.264			
	SPREADERS		28.510			
	NITROGEN ELEMENTAL		.270			
	PHOSPHORUS PENTOXIDE		.120			
	MAGNESUIM		.096			
	ZINC		1.204			
04N/28W-13 S	PARAQUAT	AVOCADOS		4.022	5	5.00
	PETROLEUM SOLVENTS	AVOCADOS		199.500	2	.75
		LEMONS		414.761	1	7.00
	SIMAZINE	AVOCADOS		1.600	1	2.00
	2,4-D	NOT REPORTED		6.666	1	15.00
	2,4,5-T	TURF		20.000	1	40.00
	SPREADERS	AVOCADOS		2.999	5	5.00
04N/28W-14 S	CALCIUM HYDROXIDE	LEMONS		194.400	1	12.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/28W-14 S	COPPER SULFATE-BASIC	LEMONS		34.560	1	12.00
	PARAQUAT	AVOCADOS		1.011	1	1.25
		LEMONS		1.000	1	2.00
	PETROLEUM SOLVENTS	AVOCADOS		66.500	1	.25
		LEMONS		1,349.618	2	14.00
	2,4-D	FALLOWLAND		6.000	1	2.00
	SPREADERS	AVOCADOS		.747	1	1.25
04N/28W-15 S	CALCIUM HYDROXIDE	LEMONS		1,283.100	4	69.00
	COPPER SULFATE-BASIC	LEMONS		228.960	4	69.00
	GUTHION	WALNUTS		29.625	2	18.00
	META-SYSTOX-R	MISC. TIMBER TREES		.436	3	2.32
		NURSERY PLANTINGS		.248	2	1.32
	MORESTAN	MISC. TIMBER TREES		20.983	2	28.13
		NURSERY PLANTINGS		3.199	3	2.19
	PENTAC	MISC. TIMBER TREES		.040	1	.04
		NURSERY PLANTINGS		111.600	1	27.90
	PETROLEUM SOLVENTS	LEMONS		11,659.379	4	82.00
04N/28W-16 S	CALCIUM HYDROXIDE	LEMONS		805.050	3	55.00
	COPPER SULFATE-BASIC	LEMONS		144.560	3	55.00
	GUTHION	WALNUTS		34.500	4	22.00
	KELTHANE	WALNUTS		4.000	1	2.00
	PARAQUAT	LEMONS		12.888	1	8.00
	PETROLEUM SOLVENTS	LEMONS		4,743.412	5	40.00
	TEPP	STRAWBERRIES		8.800	1	22.00
	2,4-D	LEMONS		4.000	1	8.00
04N/28W-19 S	CARBARYL	ORNAMENTAL PLANTS		2.400	1	1.00
	DICAMBA	TURF		4.005	1	.89
	META-SYSTOX-R	ORNAMENTAL PLANTS		1.815	2	1.23
	2,4-D	TURF		4.005	1	.89
04N/28W-21 S	DIAZINON	NURSERY PLANTINGS		2.500	1	2.00
04N/28W-22 S	KELTHANE	PLUMS		5.625	1	5.00
	MALATHION	PLUMS		21.875	1	5.00
04N/28W-23 S	ROTENONE	LEMONS		.180	1	1.50
	SUMMER OILS	LEMONS		138.254	1	1.50
04N/28W-24 S	CALCIUM HYDROXIDE	LEMONS		48.600	1	2.00
	COPPER SULFATE-BASIC	LEMONS		8.640	1	2.00
	PETROLEUM SOLVENTS	LEMONS		289.674	1	2.00
04N/28W-88 S	CHLORDANE	STRUCTURAL CONTROL	390.600			
	DDT		.400			
	DDVP		.813			
	DIAZINON		16.437			
	DIELDRIN		53.089			
	DURSBAN		.471			
	ETHYLENE BROMIDE EDB		31.101			
	MALATHION		1.283			
	PCP		.170			
	PETROLEUM SOLVENTS		9.643			
04N/28W-99 S	AMITROLE	RESIDENTIAL CONTR.	26.740			
	BROMACIL		.230			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/28W-99 S	CARBARYL	RESIDENTIAL CONTR.	192.350			
	CARBOPHENOTHION		68.822			
	CHLORDANE		2.000			
	COPPER OXYCHLORIDE		42.000			
	COPPER SULFA-PENTHAH		.608			
	DACTHAL		40.061			
	DALAPON		3.772			
	DIAZINON		1.125			
	DIELDRIN		.183			
	DIMETHOATE		1.346			
	DIPHENAMID		.948			
	DODINE		7.556			
	DYRENE		1.563			
	LEAD ARSENATE -BASIC		108.672			
	LINDANE		29.300			
	MALATHION		5.926			
	MCPA		.063			
	META-SYSTOX-R		1.000			
	METHOXYCHLOR		4.000			
	NALED		15.175			
	NAPHTHAL ACETIC ACID		.638			
	PARAQUAT		7.043			
	PETROLEUM SOLVENTS		.033			
	SIMAZINE		5.420			
	TRIFLURALIN		1.906			
	VAPAM		6.544			
	2,4-D		.194			
	2,4,5-T		.715			
	DACONIL		1.125			
	SPREADERS		3.115			
	ZINC		.608			
04N/29W-06 S	DBCP	LEMONS		731.000	1	12.50
	PETROLEUM SOLVENTS	LEMONS		4,048.853	1	30.00
	SUMMER OILS	LEMONS		10,428.264	2	74.40
	2,4-D	LEMONS		60.000	1	60.00
		PASTURE, MEADOW		200.000	1	200.00
		SUDAN		220.000	1	220.00
04N/29W-09 S	CALCIUM HYDROXIDE	LEMONS		315.900	1	13.00
	COPPER SULFATE-BASIC	LEMONS		56.160	1	13.00
	PETROLEUM SOLVENTS	LEMONS		27,255.690	1	180.00
	2,4-D	FALLOWLAND		2.000	1	2.00
	2,4 DP	FALLOWLAND		2.000	1	2.00
04N/29W-10 S	PETROLEUM SOLVENTS	LEMONS		1,264.032	2	16.00
04N/29W-11 S	PARAQUAT	LEMONS		33.000	1	33.00
	PETROLEUM SOLVENTS	LEMONS		9,737.263	3	70.00
	ROTENONE	LEMONS		9.600	1	16.00
	2,4-D	LEMONS		66.000	1	33.00
	SPREADERS	LEMONS		16.219	1	33.00
04N/29W-24 S	DICAMBA	TURF		.125	1	1.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04N/29W-24 S	2,4-D	TURF		1.000	1	1.00
	2,4,5-T	TURF		.500	1	1.00
04N/29W-99 S	AMITROLE	RESIDENTIAL CONTR.	45.252			
	ATRAZINE		7.000			
	BROMACIL		.470			
	FENAC		7.875			
	GUTHION		5.750			
04N/30W-01 S	CALCIUM HYDROXIDE	LEMONS		364.500	1	30.00
	COPPER SULFATE-BASIC	LEMONS		64.800	1	30.00
	PETROLEUM SOLVENTS	LEMONS		2,534.648	1	30.00
04N/30W-99 S	AMITROLE	RESIDENTIAL CONTR.	36.900			
	BROMACIL		.410			
04N/31W-88 S	CHLORDANE	STRUCTURAL CONTROL	.875			
	DIAZINON		1.125			
	DIELDRIN		28.008			
04N/31W-99 S	AMITROLE	RESIDENTIAL CONTR.	33.300			
	BROMACIL		.370			
04N/33W-99 S	AMITROLE	RESIDENTIAL CONTR.	28.800			
	BROMACIL		.350			
04N/34W-99 S	AMITROLE	RESIDENTIAL CONTR.	63.000			
	BROMACIL		.780			
05N/01W-88 S	CHLORDANE	STRUCTURAL CONTROL	38.506			
	DELNAV		7.860			
	DIAZINON		9.058			
	DIELDRIN		2.623			
	LINDANE		.800			
05N/30W-33 S	TEPP	NURSERY PLANTINGS		2.004	2	9.10
05N/30W-34 S	2,4-D	PASTURE, MEADOW		512.000	4	512.00
05N/31W-30 S	2,4-D	OATS		37.500	1	50.00
05N/31W-35 S	2,4-D	OATS		168.750	1	225.00
05N/31W-36 S	DIAZINON	WALNUTS		150.000	1	75.00
	PETROLEUM SOLVENTS	LEMONS		2,073.803	1	14.00
	2,4-D	HAY		6.000	1	8.00
		PASTURE, MEADOW		60.000	1	40.00
05N/32W-99 S	AMITROLE	RESIDENTIAL CONTR.	23.400			
	BROMACIL		.300			
	2,4-D		2.000			
	2,4,5-T		2.000			
05N/33W-99 S	AMITROLE	RESIDENTIAL CONTR.	27.900			
	BROMACIL		.350			
05N/34W-99 S	2,4-D	RESIDENTIAL CONTR.	1.000			
	2,4,5-T		1.000			
05N/35W-11 S	2,4-D	OATS		200.000	1	200.00
05N/35W-99 S	AMITROLE	RESIDENTIAL CONTR.	42.300			
	BROMACIL		.515			
06N/34W-06 S	DIMETHOATE	CAULIFLOWER		2.753	1	5.50
	ENDOSULFAN	CAULIFLOWER		5.500	1	5.50
	META-SYSTOX-R	CAULIFLOWER		2.063	1	5.50
	METHOMYL	CAULIFLOWER		2.475	1	5.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
06N/34W-06 S	PHOSDRIN	CAULIFLOWER		2.750	1	5.50
	SYSTOX	PEAS		5.000	1	20.00
	ZINEB	CAULIFLOWER		20.625	1	5.50
06N/34W-07 S	META-SYSTOX-R	NURSERY PLANTINGS		3.750	1	10.00
	PHOSDRIN	NURSERY PLANTINGS		5.000	1	10.00
06N/34W-99 S	2,4-D	RESIDENTIAL CONTR.	3.264			
	2,4,5-T		3.136			
06N/35W-99 S	AMITROLE	RESIDENTIAL CONTR.	25.200			
	BROMACIL		.310			
06N/36W-99 S	ATRAZINE	RESIDENTIAL CONTR.	32.000			
	BORAX AND BORIC ACID		624.000			
	PRAMITOL, PROMETONE		40.000			
	SIMAZINE		6.000			
	SODIUM CHLORATE		480.000			
	TORDON		7.000			
07N/34W-19 S	DI-SYSTON	CABBAGE		10.500	1	4.00
	TOK-25	CABBAGE		12.000	1	4.00
07N/34W-30 S	BALAN	LETTUCE		33.750	2	45.00
	CARBARYL	NURSERY PLANTINGS		20.000	1	4.00
	DI-SYSTON	CAULIFLOWER		10.125	1	9.00
		FALLOWLAND		192.000	4	122.00
		LETTUCE		156.750	2	82.00
	ENDOSULFAN	NURSERY PLANTINGS		14.000	1	14.00
	MCPA	BEANS, DRY		22.000	1	22.00
	META-SYSTOX-R	CABBAGE		.625	1	2.50
		CAULIFLOWER		11.500	2	23.00
		NURSERY PLANTINGS		17.189	5	48.50
		PEAS		21.375	2	57.00
	PHOSDRIN	CAULIFLOWER		16.250	2	23.00
		NURSERY PLANTINGS		25.000	4	43.00
	SULFUR	NURSERY PLANTINGS		142.000	2	5.00
	SYSTOX	PEAS		5.000	1	20.00
07N/34W-31 S	DI-SYSTON	CABBAGE		63.633	6	61.00
	ENDOSULFAN	LETTUCE		4.500	1	9.00
	MALATHION	MISC. VEGETABLES		3.750	1	2.50
	MANEB	PEAS		88.800	1	37.00
	MCPA	BEANS, DRY		213.000	3	163.00
	META-SYSTOX-R	CAULIFLOWER		1.125	1	3.00
		NURSERY PLANTINGS		22.122	2	53.00
		PEAS		69.500	7	216.00
	METHOMYL	LETTUCE		2.250	1	9.00
	PHOSDRIN	CAULIFLOWER		1.500	1	3.00
		MISC. VEGETABLES		1.000	1	1.00
		NURSERY PLANTINGS		20.000	2	40.00
	RO-NEET	FALLOWLAND		37.500	1	10.00
	SULFUR	CAULIFLOWER		9.450	2	6.00
		MISC. VEGETABLES		15.000	1	1.00
		NURSERY PLANTINGS		25.200	2	16.00
		PEAS		1,108.800	2	54.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
07N/34W-31 S	TELONE	FALLOWLAND		14,968.800	1	84.00
	ZINEB	CAULIFLOWER		.450	1	3.00
		NURSERY PLANTINGS		1.200	1	8.00
	COPPER	CAULIFLOWER		1.800	1	3.00
		NURSERY PLANTINGS		4.800	1	8.00
07N/34W-88 S	CHLORDANE	STRUCTURAL CONTROL	4.813			
	DDT		.144			
	DIAZINON		1.405			
	DIELDRIN		.995			
	ETHYLENE BROMIDE EDB		1.596			
	PCP		.170			
	PETROLEUM SOLVENTS		10.940			
07N/34W-99 S	BROMACIL	RESIDENTIAL CONTR.	261.750			
	DIELDRIN		9.707			
	MALEIC HYDRAZIDE		30.400			
	2,4-D		6.000			
	2,4,5-T		6.000			
	SPREADERS		7.185			
07N/35W-13 S	BALAN	LETTUCE		56.250	2	50.00
	BTB	CABBAGE		11.284	2	36.00
		LETTUCE		2.400	2	20.00
		SPINACH		.240	1	2.00
	CARBARYL	CABBAGE		95.200	3	54.50
	DDT	CABBAGE		114.000	6	57.00
	ENDOSULFAN	CABBAGE		212.000	17	215.00
		CELERY		104.500	10	111.50
		LETTUCE		216.000	24	216.00
		SPINACH		1.500	1	2.00
	FOLPET	LETTUCE		13.000	1	13.00
	GUTHION	CABBAGE		7.500	1	15.00
	IPC	LETTUCE		200.000	2	50.00
	LINDANE	LETTUCE		40.000	1	20.00
	MANEB	CABBAGE		40.400	3	50.50
		CELERY		333.200	11	143.50
	META-SYSTOX-R	CABBAGE		37.500	6	76.50
	METHYL PARATHION	CABBAGE		35.313	3	56.50
		CELERY		60.939	9	97.50
		LETTUCE		114.376	19	183.00
		SPINACH		1.250	1	2.00
	PARATHION	CABBAGE		46.000	8	92.00
		LETTUCE		6.500	2	13.00
	PERTHANE	CABBAGE		116.200	5	75.50
	PHOSDRIN	CABBAGE		45.500	2	45.50
		CELERY		14.000	1	14.00
		LETTUCE		48.500	7	57.50
		SPINACH		15.000	2	12.00
	SYSTOX	CABBAGE		7.500	1	15.00
	TOK-25	CABBAGE		202.500	11	67.50
		CELERY		57.000	2	19.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
07N/35W-13 S	TOXAPHENE	CABBAGE		228.000	6	57.00
	ZINEB	CABBAGE		.718	1	21.00
	ZINC SULPHATE	CABBAGE		1.009	2	29.50
		CELERY		13.527	10	136.50
	ZINC	CELERY		.420	1	7.00
07N/35W-22 S	CAPTAN	CABBAGE		8.750	1	17.50
		NURSERY PLANTINGS		2.000	1	4.00
	DIAZINON	CABBAGE		16.750	2	33.50
		NURSERY PLANTINGS		2.000	1	4.00
	DIMETHOATE	CABBAGE		24.780	3	49.50
		NURSERY PLANTINGS		1.335	1	4.00
	DI-SYSTON	CABBAGE		43.313	1	16.50
		FALLOWLAND		4.501	1	4.50
		NURSERY PLANTINGS		15.750	1	6.00
	ENDOSULFAN	CABBAGE		46.000	5	92.00
		NURSERY PLANTINGS		5.000	2	10.00
	ETHYLENE BROMIDE EDB	CABBAGE		598.290	1	16.50
		FALLOWLAND		4,351.200	1	48.00
	META-SYSTOX-R	CABBAGE		44.415	5	93.50
		NURSERY PLANTINGS		9.094	3	22.00
	METHOMYL	CABBAGE		7.425	1	16.50
	PARATHION	NURSERY PLANTINGS		6.000	1	12.00
	PHOSDRIN	CABBAGE		77.125	7	128.00
		NURSERY PLANTINGS		2.500	1	5.00
	SYSTOX	CABBAGE		8.750	1	17.50
	TELONE	NURSERY PLANTINGS		534.600	1	6.00
	TOK-25	CABBAGE		92.000	2	23.00
		NURSERY PLANTINGS		67.000	3	17.00
	TRIFLURALIN	NURSERY PLANTINGS		12.000	1	4.00
	4-2,4DB	PASTURE, MEADOW		12.000	1	8.00
07N/35W-23 S	BALAN	FALLOWLAND		60.000	2	80.00
	BOTRAN	CELERY		6.000	1	4.00
		LETTUCE		18.000	1	9.00
	BTB	CELERY		3.000	1	5.00
		LETTUCE		7.500	1	12.50
		SPINACH		1.594	1	4.25
	CAPTAN	CABBAGE		10.000	1	20.00
		CAULIFLOWER		6.500	2	8.50
	CARBARYL	LETTUCE		9.600	1	6.00
	DDT	NURSERY PLANTINGS		15.000	2	10.00
	DIAZINON	LETTUCE		13.600	2	24.00
		NURSERY PLANTINGS		5.000	1	10.00
		SPINACH		2.000	1	4.00
	DIMETHOATE	CAULIFLOWER		4.756	2	9.50
		LETTUCE		2.003	1	6.00
	ENDOSULFAN	CABBAGE		16.000	2	32.00
		CAULIFLOWER		2.500	1	5.00
		CELERY		20.000	4	30.00
		LETTUCE		62.000	6	124.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
07N/35W-23 S	ENDOSULFAN	NURSERY PLANTINGS		16.500	1	5.50
	ETHYLENE BROMIDE EDB	FALLOWLAND		3,616.029	6	94.30
	GUTHION	SPINACH		3.000	1	4.00
	LINURON	CARROTS		31.000	3	31.00
	MANEB	CAULIFLOWER		16.800	3	13.50
		CELERY		196.800	13	94.50
		LETTUCE		136.000	3	68.00
		NURSERY PLANTINGS		12.000	2	10.00
	META-SYSTOX-R	CABBAGE		9.999	1	20.00
		CAULIFLOWER		2.004	1	4.00
		NURSERY PLANTINGS		5.010	2	10.00
	METHOMYL	CABBAGE		10.800	2	24.00
		CAULIFLOWER		1.800	1	4.00
		LETTUCE		45.050	5	109.00
	METHYL PARATHION	CELERY		31.314	10	63.00
	NALED	CELERY		23.000	3	23.00
	PARATHION	CELERY		14.625	5	39.00
	PETROLEUM SOLVENTS	CARROTS		11,970.000	2	30.00
		NURSERY PLANTINGS		6.517	1	4.00
	PHOSDRIN	CABBAGE		13.000	2	32.00
		CELERY		28.250	8	55.50
		LETTUCE		69.700	8	128.50
		NURSERY PLANTINGS		3.750	1	10.00
		SPINACH		3.094	2	8.25
	PROMETRYNE	CELERY		40.000	5	35.00
	RO-NEET	FALLOWLAND		6.000	1	2.00
	SYSTOX	CABBAGE		6.000	1	12.00
	TOK-25	CARROTS		68.000	1	17.00
		NURSERY PLANTINGS		162.500	8	50.50
	TOXAPHENE	CELERY		121.875	5	32.50
		NURSERY PLANTINGS		30.000	2	10.00
	ZINEB	CAULIFLOWER		21.060	1	4.50
		CELERY		23.700	2	10.00
		LETTUCE		59.000	3	36.50
		NURSERY PLANTINGS		12.500	1	10.00
		SPINACH		11.000	2	8.00
	ZINC SULPHATE	CELERY		.513	1	5.00
		LETTUCE		3.489	2	34.00
	ZINC	CAULIFLOWER		.180	1	4.50
07N/35W-24 S	CAPTAN	NURSERY PLANTINGS		9.000	2	11.00
	DDT	NURSERY PLANTINGS		9.000	1	6.00
	DIAZINON	SPINACH		8.500	3	17.00
	DIMETHOATE	CAULIFLOWER		2.753	2	5.50
		NURSERY PLANTINGS		2.002	1	4.00
	DI-SYSTON	CABBAGE		87.150	3	33.20
		CAULIFLOWER		6.501	1	6.50
		SPINACH		15.003	1	15.00
	ENDOSULFAN	CAULIFLOWER		2.750	2	5.50
		NURSERY PLANTINGS		2.000	1	4.00

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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
07N/35W-24 S	ETHYLENE BROMIDE EDB	FALLOWLAND		384.621	2	9.33
	GUTHION	SPINACH		7.500	2	10.00
	LINURON	CARROTS		15.000	1	15.00
	MANEB	CAULIFLOWER		20.400	2	11.00
		CELERY		8.000	1	5.00
		NURSERY PLANTINGS		18.000	3	15.00
	META-SYSTOX-R	CABBAGE		9.000	2	18.00
		CAULIFLOWER		5.000	2	8.00
		NURSERY PLANTINGS		10.129	4	22.00
		PEAS		11.250	1	30.00
	METHOMYL	CAULIFLOWER		.225	1	.50
	METHYL PARATHION	CELERY		.938	1	5.00
	PARATHION	CELERY		1.875	1	5.00
	PHOSDRIN	CABBAGE		9.000	1	9.00
		CAULIFLOWER		1.000	1	2.00
		CELERY		2.500	1	5.00
		SPINACH		6.375	3	17.00
	PROMETRYNE	CELERY		4.266	1	4.00
	TELONE	CABBAGE		409.860	1	4.60
		FALLOWLAND		4,811.400	3	40.50
	TOK-25	CABBAGE		84.750	3	28.25
		CAULIFLOWER		1.000	1	1.00
		NURSERY PLANTINGS		92.334	5	25.00
	TOXAPHENE	CELERY		18.750	1	5.00
		NURSERY PLANTINGS		100.750	5	26.00
	ZINEB	SPINACH		36.250	5	27.00
	ZINC SULPHATE	CAULIFLOWER		.616	1	6.00
	ZINC	NURSERY PLANTINGS		.450	3	15.00
07N/35W-25 S	BALAN	FALLOWLAND		7.500	1	10.00
		LETTUCE		12.000	1	8.00
	BOTRAN	LETTUCE		65.188	3	33.50
	BTB	LETTUCE		10.234	3	30.25
		NURSERY PLANTINGS		6.750	1	9.00
	CAPTAN	LETTUCE		9.500	2	19.00
		NURSERY PLANTINGS		11.500	1	11.50
	CARBARYL	NURSERY PLANTINGS		22.500	1	9.00
	DDT	BROCCOLI		10.000	1	5.00
		CABBAGE		153.000	5	102.00
		NURSERY PLANTINGS		219.000	9	95.50
	DIAZINON	CABBAGE		16.000	2	32.00
	DIMETHOATE	CABBAGE		24.029	4	48.00
	DI-SYSTON	CABBAGE		30.942	3	30.00
		CAULIFLOWER		13.500	1	12.00
		FALLOWLAND		63.000	2	24.00
		LETTUCE		18.750	1	10.00
	ENDOSULFAN	CABBAGE		4.000	1	8.00
		LETTUCE		81.250	8	113.00
	ETHYLENE BROMIDE EDB	CELERY		543.900	1	15.00
		FALLOWLAND		924.630	3	25.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
07N/35W-25 S	ETHYLENE BROMIDE EDB	NURSERY PLANTINGS		1,218.500	2	38.00
	MALATHION	NURSERY PLANTINGS		8.750	1	7.00
	MANEB	CELERY		14.400	1	9.00
		NURSERY PLANTINGS		43.200	4	36.00
	MCPA	BEANS, DRY		85.000	1	85.00
	META-SYSTOX-R	CABBAGE		12.000	2	44.00
		NURSERY PLANTINGS		41.317	9	88.50
	METHOMYL	CABBAGE		3.600	1	8.00
		LETTUCE		43.650	8	97.00
	METHYL PARATHION	CELERY		1.688	1	9.00
		LETTUCE		10.688	3	49.50
	PARATHION	BEETS		3.125	1	5.00
		CELERY		3.375	1	9.00
		LETTUCE		16.875	2	45.00
		NURSERY PLANTINGS		12.000	3	24.00
	PERTHANE	NURSERY PLANTINGS		18.000	1	9.00
	PETROLEUM SOLVENTS	CARROTS		56,900.000	5	77.00
	PHOSDRIN	BEETS		5.000	1	5.00
		CABBAGE		28.000	4	48.00
		LETTUCE		18.500	4	35.25
	PROMETRYNE	CELERY		10.800	1	9.00
	SULFUR	PEAS		1,730.400	4	125.00
	SYSTOX	CABBAGE		33.000	4	66.00
	TOK-25	CABBAGE		120.000	3	34.00
		CELERY		35.000	2	14.00
		NURSERY PLANTINGS		359.500	8	91.50
	TOXAPHENE	CABBAGE		336.000	6	110.00
		CARROTS		411.500	6	107.00
		CELERY		33.750	1	9.00
		LETTUCE		195.000	3	50.00
		NURSERY PLANTINGS		394.000	10	102.50
	ZINC	NURSERY PLANTINGS		.720	3	24.00
07N/35W-26 S	BOTRAN	CELERY		12.000	2	8.00
	CAPTAN	CABBAGE		4.500	1	9.00
		CAULIFLOWER		.750	1	1.50
	DDT	NURSERY PLANTINGS		44.000	2	22.00
	DIAZINON	LETTUCE		10.500	1	21.00
	DIMETHOATE	CABBAGE		30.536	5	61.00
	DI-SYSTON	FALLOWLAND		28.125	1	15.00
		SPINACH		18.000	1	20.00
	ENDOSULFAN	CABBAGE		21.500	3	43.00
		LETTUCE		85.000	6	150.00
	ETHYLENE BROMIDE EDB	FALLOWLAND		543.900	1	15.00
		LETTUCE		435.120	1	12.00
	GUTHION	CELERY		4.000	2	8.00
	LINURON	CARROTS		55.000	4	69.00
	MANEB	CAULIFLOWER		6.600	2	5.50
		CELERY		11.200	2	8.00
		LETTUCE		153.600	3	88.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
07N/35W-26 S	MANEB	NURSERY PLANTINGS		14.400	1	12.00
	MCPA	BEANS, DRY		80.000	1	80.00
	META-SYSTOX-R	CABBAGE		9.999	1	20.00
		CAULIFLOWER		2.000	1	4.00
		NURSERY PLANTINGS		16.438	4	40.50
		PEAS		8.625	1	23.00
	METHOMYL	CABBAGE		8.100	1	18.00
		LETTUCE		58.500	5	130.00
	METHYL PARATHION	CELERY		1.500	2	8.00
		LETTUCE		20.000	1	20.00
	PARATHION	CELERY		3.000	2	8.00
		NURSERY PLANTINGS		4.250	1	8.50
	PETROLEUM SOLVENTS	CELERY		4,256.000	2	9.00
	PHOSDRIN	CABBAGE		43.250	6	72.00
		CELERY		2.000	1	4.00
		LETTUCE		44.750	3	79.00
	PROMETRYNE	CELERY		4.800	1	4.00
	TELONE	CARROTS		2,138.400	1	12.00
	TOK-25	CABBAGE		217.000	6	72.50
		CAULIFLOWER		18.000	1	4.50
		CELERY		24.000	2	8.00
		NURSERY PLANTINGS		87.500	4	25.50
	TOXAPHENE	CELERY		42.000	3	12.00
		NURSERY PLANTINGS		155.500	4	39.50
	ZINEB	CAULIFLOWER		7.020	1	1.50
	ZINC SULPHATE	LETTUCE		3.078	1	30.00
	ZINC	CAULIFLOWER		.045	1	1.50
07N/35W-27 S	DI-SYSTON	FALLOWLAND		36.094	1	13.75
	ETHYLENE BROMIDE EDB	FALLOWLAND		1,087.800	1	20.00
	MANEB	LETTUCE		172.800	3	144.00
	METHOMYL	LETTUCE		32.400	2	72.00
	PHOSDRIN	LETTUCE		72.000	3	144.00
	TELONE	FALLOWLAND		1,225.125	1	13.75
	TOK-25	CABBAGE		155.000	3	42.50
07N/35W-31 S	MCPA	BEANS, DRY		35.000	1	35.00
07N/35W-99 S	AMITROLE	RESIDENTIAL CONTR.	17.100			
	ATRAZINE		32.000			
	BORAX AND BORIC ACID		624.000			
	BROMACIL		73.474			
	PRAMITOL, PROMETONE		40.000			
	SIMAZINE		6.000			
	SODIUM CHLORATE		480.000			
	TORDON		8.000			
08N/35W-99 S	AMITROLE	RESIDENTIAL CONTR.	18.000			
	DIURON		20.000			
	PARAQUAT		32.000			
	SILVEX		60.000			
	2,4-D		82.000			
	2,4,5-T		22.000			

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
08N/36W-99 S	AMITROLE	RESIDENTIAL CONTR.	25.200			
	BROMACIL		.310			
09N/35W-99 S	AMITROLE	RESIDENTIAL CONTR.	50.400			
	BROMACIL		.900			
10N/35W-01 S	BORAX AND BORIC ACID	CELERY		72.000	3	40.00
	BTB	CELERY		1.800	1	30.00
	COPPER HYDROXIDE	CELERY		67.500	1	27.00
	COPPER SULFA-PENTHAH	BROCCOLI		2.000	1	10.00
	DDT	BROCCOLI		20.000	1	10.00
	DIAZINON	CELERY		20.000	3	40.00
	DI-SYSTON	BROCCOLI		32.006	2	32.00
	ENDOSULFAN	ARTICHOKES		21.500	2	43.00
		CELERY		66.750	5	77.50
	EPTAM	BEANS, DRY		142.125	2	52.50
	ETHYLENE BROMIDE EDB	CARROTS		864.000	1	15.00
		POTATOES		950.400	1	16.50
	GUTHION	BEANS, DRY		10.250	1	20.50
	MANEB	CELERY		72.000	1	30.00
	META-SYSTOX-R	BROCCOLI		16.000	2	32.00
	METHYL PARATHION	ARTICHOKES		91.000	3	91.00
		CELERY		40.000	3	40.00
	NABAM	CELERY		108.284	7	87.50
	PERTHANE	LETTUCE		31.000	1	15.50
	PHOSDRIN	CELERY		29.007	7	87.50
		LETTUCE		21.500	2	23.50
	SULFUR	BROCCOLI		8.000	1	10.00
		CELERY		1,150.000	2	46.00
	TOK-25	BROCCOLI		36.000	1	12.00
	TOXAPHENE	BROCCOLI		40.000	1	10.00
	2,4-D	CORN		12.194	1	32.50
	ZINC SULPHATE	BROCCOLI		10.000	1	10.00
	SPREADERS	ARTICHOKES		56.350	3	91.00
		CELERY		58.803	7	87.50
		CORN		9.743	1	32.50
	COPPER	CELERY		85.100	2	46.00
10N/35W-02 S	BALAN	LETTUCE		6.750	1	12.00
	DDT	BROCCOLI		70.000	3	35.00
	DIAZINON	LETTUCE		6.750	1	13.50
	DIMETHOATE	CABBAGE		2.280	2	15.50
		CAULIFLOWER		8.250	1	16.50
		LETTUCE		8.758	3	35.00
	DI-SYSTON	BROCCOLI		53.828	4	87.00
		CABBAGE		.029	1	14.50
		CAULIFLOWER		30.562	5	68.00
	ENDOSULFAN	CABBAGE		22.750	4	24.50
		CAULIFLOWER		16.500	1	16.50
		LETTUCE		212.625	21	243.50
	EPTAM	BEANS, DRY		207.000	4	69.00
	IPC	LETTUCE		18.000	1	12.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-02 S	META-SYSTOX-R	BROCCOLI		26.000	4	52.00
		CABBAGE		10.063	4	24.50
		CARROTS		6.250	1	12.50
		CAULIFLOWER		7.750	1	15.50
	METHOMYL	CABBAGE		7.200	2	16.00
		CAULIFLOWER		14.175	2	31.50
		LETTUCE		112.275	21	249.50
	METHYL PARATHION	LETTUCE		19.500	1	19.50
	NABAM	LETTUCE		66.582	7	57.50
	PERTHANE	LETTUCE		24.000	1	12.00
	PHORATE	LETTUCE		51.951	5	58.00
	PHOSDRIN	CABBAGE		10.750	2	15.50
		CAULIFLOWER		24.250	2	32.50
		LETTUCE		30.065	5	55.00
	SYSTOX	BROCCOLI		28.000	3	56.00
		CAULIFLOWER		16.250	2	32.50
	TOK-25	BROCCOLI		214.500	4	71.50
		CAULIFLOWER		211.500	5	70.50
	TOXAPHENE	BROCCOLI		140.000	3	35.00
		LETTUCE		78.000	1	19.50
	TRIFLURALIN	BROCCOLI		18.252	3	33.50
		CAULIFLOWER		19.068	2	30.50
	MISC. MINOR ELEMENTS	LETTUCE		204.260	4	34.00
	SPREADERS	BROCCOLI		53.909	6	75.00
		CABBAGE		11.315	5	28.00
		CARROTS		8.986	1	12.50
		CAULIFLOWER		28.922	4	64.50
		LETTUCE		166.387	22	274.50
10N/35W-03 S	DDT	CABBAGE		16.250	1	13.00
	DIAZINON	CABBAGE		6.500	1	13.00
		LETTUCE		6.500	1	13.00
	DIMETHOATE	LETTUCE		4.502	2	18.00
	DI-SYSTON	CABBAGE		.026	1	11.00
	ENDOSULFAN	CABBAGE		13.000	1	13.00
		LETTUCE		224.250	17	234.50
	MALATHION	LETTUCE		9.500	1	9.50
	MANEB	BROCCOLI		57.750	1	25.00
	META-SYSTOX-R	CABBAGE		6.500	1	13.00
	METHOMYL	LETTUCE		97.425	15	216.50
	NABAM	CABBAGE		13.156	1	13.00
		LETTUCE		40.916	4	36.00
	PERTHANE	LETTUCE		19.000	1	9.50
	PHORATE	LETTUCE		29.072	3	31.00
	PHOSDRIN	CABBAGE		3.250	1	13.00
		CAULIFLOWER		12.000	1	12.00
		LETTUCE		9.625	3	29.00
	TOXAPHENE	CABBAGE		32.500	1	13.00
	ZINEB	BROCCOLI		2.250	1	25.00
	MISC. MINOR ELEMENTS	LETTUCE		97.353	2	18.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-03 S	SPREADERS	CABBAGE		9.350	2	26.00
		LETTUCE		135.666	19	257.00
10N/35W-04 S	BALAN	LETTUCE		21.094	4	37.50
	BTB	CELERY		27.000	1	9.00
	DDT	CAULIFLOWER		70.500	1	47.00
	DIAZINON	CELERY		18.750	2	37.50
		LETTUCE		8.500	1	17.00
	DIMETHOATE	LETTUCE		4.377	2	17.50
	DI-SYSTON	BROCCOLI		24.990	1	25.00
	ENDOSULFAN	CELERY		13.500	1	13.50
		LETTUCE		46.375	4	55.00
	GIBBERELLIC ACID	CELERY		.258	1	9.50
	GUTHION	POTATOES		48.750	1	65.00
	IPC	LETTUCE		56.250	4	37.50
	MALATHION	LETTUCE		26.250	2	17.50
	MANEB	CELERY		22.800	1	9.50
		POTATOES		21.450	1	65.00
	META-SYSTOX-R	BROCCOLI		12.500	1	25.00
		CAULIFLOWER		23.500	1	47.00
	METHOMYL	LETTUCE		23.175	4	51.50
	METHOXYCHLOR	BROCCOLI		12.500	1	25.00
		CELERY		25.500	2	25.50
	METHYL PARATHION	CELERY		51.000	3	51.00
		LETTUCE		37.500	2	37.50
	NABAM	CELERY		54.777	3	51.00
	PERTHANE	LETTUCE		26.500	2	17.50
	PETROLEUM SOLVENTS	CELERY		20,005.860	3	39.00
	PHORATE	LETTUCE		35.443	3	43.00
	PHOSDRIN	BROCCOLI		9.000	1	9.00
		CELERY		26.889	4	56.00
		LETTUCE		34.250	2	38.50
	TOXAPHENE	CAULIFLOWER		141.000	1	47.00
		CELERY		54.000	1	13.50
		LETTUCE		82.000	1	20.50
	ZINEB	CELERY		27.000	1	9.00
	SPREADERS	CELERY		18.326	3	51.00
		LETTUCE		38.464	7	89.50
10N/35W-05 S	COPPER SULFA-PENTHAH	BROCCOLI		14.800	1	8.00
	EPTAM	POTATOES		102.000	2	34.00
	ETHYLENE BROMIDE EDB	POTATOES		945.000	1	17.50
	GUTHION	POTATOES		25.500	2	34.00
	MANEB	POTATOES		54.400	2	34.00
	METHYL PARATHION	BROCCOLI		24.000	1	24.00
	SULFUR	BROCCOLI		200.000	1	8.00
	SYSTOX	BROCCOLI		20.000	2	40.00
	TRIFLURALIN	BROCCOLI		22.347	1	32.50
	2,4-D	CORN		25.701	1	68.50
	SPREADERS	BROCCOLI		28.740	2	40.00
		CORN		14.370	1	68.50

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
CONT.						
10N/35W-05 S	SPREADERS	POTATOES		12.215	2	34.00
10N/35W-07 S	BALAN	LETTUCE		23.626	3	42.00
	BTB	LETTUCE		2.760	1	23.00
	CIPC	LETTUCE		69.750	3	42.00
	DBCP	BROCCOLI		298.126	1	26.00
	DDT	BROCCOLI		58.000	2	47.00
	DI-SYSTON	BROCCOLI		123.125	3	115.00
		CAULIFLOWER		36.000	1	40.00
	ENDOSULFAN	LETTUCE		134.000	8	140.00
	EPTAM	BEANS, DRY		79.500	2	36.50
	META-SYSTOX-R	BROCCOLI		70.000	4	140.00
	METHYL PARATHION	LETTUCE		66.250	8	140.00
	PARATHION	LETTUCE		15.000	6	96.00
	PHOSDRIN	LETTUCE		74.500	5	85.00
	SYSTOX	BROCCOLI		16.500	1	33.00
		LETTUCE		21.500	3	66.00
	TOXAPHENE	BROCCOLI		116.000	2	47.00
		LETTUCE		48.000	1	12.00
	SPREADERS	BROCCOLI		23.711	1	33.00
10N/35W-08 S	BTB	CABBAGE		3.840	2	22.00
	COPPER OXYCHLORIDE	BROCCOLI		2.600	1	13.00
	COPPER SULFA-PENTHAH	BROCCOLI		16.600	3	83.00
	DI-SYSTON	BROCCOLI		103.507	2	96.00
		POTATOES		125.963	2	53.00
	ENDOSULFAN	CABBAGE		10.000	1	10.00
	EPTAM	BEANS, DRY		129.375	1	57.50
	LINURON	CARROTS		22.500	2	15.00
	META-SYSTOX-R	BROCCOLI		31.000	2	62.00
		CABBAGE		6.000	1	12.00
		CARROTS		7.500	1	7.50
	METHOXYCHLOR	CARROTS		7.500	1	7.50
	PETROLEUM SOLVENTS	CARROTS		8,952.563	2	15.00
	PHOSPHAMIDON	POTATOES		146.000	6	146.00
	SULFUR	BROCCOLI		76.800	4	96.00
	ZINEB	BROCCOLI		96.000	4	96.00
10N/35W-09 S	AMITROLE	FALLOWLAND		25.500	1	8.50
	BTB	CAULIFLOWER		2.880	1	12.00
	COPPER SULFA-PENTHAH	BROCCOLI		2.250	1	9.00
	DDT	BROCCOLI		306.000	12	164.50
		CABBAGE		17.250	2	10.50
	DIMETHOATE	CABBAGE		1.688	1	3.00
		CAULIFLOWER		7.507	2	20.00
	DI-SYSTON	BROCCOLI		173.458	11	168.50
		CABBAGE		14.625	2	13.00
		POTATOES		67.500	1	30.00
	ENDOSULFAN	CABBAGE		4.000	1	4.00
		CAULIFLOWER		25.000	2	25.00
	EPTAM	BEANS, DRY		47.995	1	24.00
	ETHYLENE BROMIDE EDB	BROCCOLI		1,350.000	1	25.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-09 S	LINDANE	BROCCOLI		4.800	1	24.00
	MANEB	BROCCOLI		127.200	3	53.00
	META-SYSTOX-R	BROCCOLI		43.500	7	87.00
		CABBAGE		2.000	1	4.00
		CAULIFLOWER		4.250	1	17.00
	METHYL PARATHION	CABBAGE		2.000	1	4.00
		CAULIFLOWER		8.500	1	17.00
	PARAQUAT	DITCHES		2.000	1	4.00
	PARATHION	CABBAGE		.500	1	4.00
		CAULIFLOWER		2.125	1	17.00
	PETROLEUM SOLVENTS	CARROTS		19,950.000	1	30.00
	PHOSDRIN	CABBAGE		6.000	2	6.00
		CAULIFLOWER		14.000	2	20.00
	SULFUR	BROCCOLI		9.000	1	9.00
	SYSTOX	BROCCOLI		60.750	7	121.50
		CABBAGE		3.750	1	7.50
	TOK-25	BROCCOLI		217.500	3	72.50
	TOXAPHENE	BROCCOLI		612.000	12	164.50
		CABBAGE		34.500	2	10.50
	TRIFLURALIN	BROCCOLI		63.666	6	103.00
	2,4-D	FALLOWLAND		17.000	1	8.50
	2,4,5-T	FALLOWLAND		8.500	1	8.50
	ZINC SULPHATE	BROCCOLI		11.250	1	9.00
	SPREADERS	BROCCOLI		78.681	6	109.50
		CABBAGE		12.579	2	10.50
		FALLOWLAND		15.271	1	8.50
10N/35W-10 S	BALAN	LETTUCE		9.000	1	16.00
	BORAX AND BORIC ACID	CELERY		197.460	9	100.00
	COPPER SULFA-PENTHAH	BROCCOLI		12.800	1	64.00
		CELERY		4.000	2	16.00
	DIAZINON	CAULIFLOWER		3.000	1	6.00
		CELERY		50.500	9	101.00
		LETTUCE		6.000	1	12.00
	DIMETHOATE	CABBAGE		.704	1	16.00
		CAULIFLOWER		3.000	1	6.00
		LETTUCE		7.634	2	30.50
	ENDOSULFAN	CABBAGE		17.875	3	31.00
		CAULIFLOWER		9.000	2	12.00
		CELERY		85.250	8	96.50
		LETTUCE		162.125	11	171.50
	IPC	LETTUCE		24.000	1	16.00
	META-SYSTOX-R	BROCCOLI		10.000	1	20.00
		CABBAGE		25.626	5	59.00
		CAULIFLOWER		3.250	1	6.50
	METHOMYL	BROCCOLI		9.000	1	20.00
		CABBAGE		22.275	4	49.50
		LETTUCE		72.900	11	162.00
	METHYL PARATHION	CAULIFLOWER		6.500	1	6.50
		CELERY		142.000	12	142.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-10 S	METHYL PARATHION	LETTUCE		21.500	1	21.50
	NABAM	CELERY		236.570	16	187.00
		LETTUCE		50.223	4	44.00
	PERTHANE	LETTUCE		103.000	3	51.50
	PETROLEUM SOLVENTS	CELERY		25,963.462	4	47.50
	PHORATE	LETTUCE		20.909	2	25.50
	PHOSDRIN	CABBAGE		12.000	1	16.00
		CAULIFLOWER		3.000	1	6.00
		CELERY		32.440	11	124.00
		LETTUCE		28.002	4	64.00
	SULFUR	BROCCOLI		51.200	1	64.00
		CELERY		16.000	2	16.00
	TOK-25	BROCCOLI		31.500	1	10.50
		CAULIFLOWER		37.500	2	12.50
		CELERY		162.000	5	54.00
	TOXAPHENE	CELERY		206.000	4	51.50
		LETTUCE		86.000	1	21.50
	ZINEB	CELERY		10.000	1	8.00
	MISC. MINOR ELEMENTS	LETTUCE		12.011	1	12.00
	ZINC SULPHATE	BROCCOLI		64.000	1	64.00
		CELERY		10.000	1	8.00
	SPREADERS	BROCCOLI		14.370	1	20.00
		CABBAGE		31.249	5	59.00
		CAULIFLOWER		4.494	2	12.50
		CELERY		78.720	16	187.00
		LETTUCE		116.236	13	195.00
10N/35W-11 S	BORAX AND BORIC ACID	CELERY		163.200	8	91.00
	BOTRAN	LETTUCE		42.000	2	21.00
	COPPER HYDROXIDE	CELERY		21.500	1	10.00
	DDT	BROCCOLI		327.000	6	163.50
		CAULIFLOWER		83.000	4	41.50
	DIAZINON	CELERY		57.000	10	114.00
		LETTUCE		2.250	1	4.50
	DIMETHOATE	BROCCOLI		2.750	1	5.50
		LETTUCE		1.626	1	6.50
	DI-SYSTON	BROCCOLI		.162	3	83.00
		LETTUCE		.070	1	13.00
	ENDOSULFAN	CAULIFLOWER		46.750	5	52.00
		CELERY		105.625	10	114.00
		LETTUCE		148.875	15	160.00
	EPTAM	BEANS, DRY		134.438	3	75.50
		FALLOWLAND		220.500	3	73.50
	ETHYLENE BROMIDE EDB	CARROTS		748.800	1	13.00
	GUTHION	FALLOWLAND		44.750	3	73.50
	MANEB	BROCCOLI		224.640	6	95.00
		CELERY		52.800	2	22.00
	META-SYSTOX-R	BROCCOLI		52.500	4	105.00
		CAULIFLOWER		36.750	4	73.50
	METHOMYL	CAULIFLOWER		5.175	2	11.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-11 S	METHOMYL	LETTUCE		64.350	12	143.00
	METHOXYCHLOR	CELERY		18.000	1	12.00
	METHYL PARATHION	CELERY		138.500	12	138.50
	NABAM	CELERY		244.299	17	195.50
	PERTHANE	LETTUCE		12.000	2	6.50
	PETROLEUM SOLVENTS	BROCCOLI		113.582	2	46.00
		CAULIFLOWER		9.476	1	19.00
	PHORATE	LETTUCE		61.422	5	68.50
	PHOSDRIN	CAULIFLOWER		2.000	1	2.00
		CELERY		42.942	13	148.50
		LETTUCE		4.500	2	9.00
	SULFUR	CAULIFLOWER		125.000	1	5.00
	SYSTOX	BROCCOLI		55.500	6	111.00
		CAULIFLOWER		23.500	5	47.00
	TOK-25	BROCCOLI		427.500	7	165.50
		CAULIFLOWER		23.000	2	11.50
		CELERY		382.500	12	127.50
	TOXAPHENE	BROCCOLI		654.000	6	163.50
		CAULIFLOWER		166.000	4	41.50
		CELERY		232.000	5	58.00
	TRIFLURALIN	BROCCOLI		31.673	2	47.50
	SPREADERS	BROCCOLI		142.276	10	198.00
		CAULIFLOWER		70.081	10	118.50
		CELERY		95.688	18	206.50
		LETTUCE		106.196	16	164.50
	COPPER	CAULIFLOWER		9.250	1	5.00
10N/35W-12 S	BORAX AND BORIC ACID	CELERY		737.300	26	364.50
	BOTRAN	CELERY		98.100	4	51.00
	COPPER HYDROXIDE	CELERY		100.000	2	40.00
	COPPER SULFA-PENTHAH	CELERY		78.500	2	50.00
	DBCP	CAULIFLOWER		229.344	2	40.00
	DDT	CAULIFLOWER		126.000	6	63.00
	DIAZINON	CELERY		258.000	38	516.00
	DIMETHOATE	CAULIFLOWER		5.250	1	10.50
		LETTUCE		4.752	1	19.00
	DI-SYSTON	BROCCOLI		50.032	3	61.00
		CAULIFLOWER		46.107	7	95.00
	ENDOSULFAN	BROCCOLI		5.500	1	11.00
		CELERY		126.750	9	134.50
		LETTUCE		122.125	7	152.50
	EPTAM	BEANS, DRY		70.500	2	47.00
	GUTHION	POTATOES		19.500	2	26.00
	LINURON	CARROTS		84.750	3	56.50
	MANEB	POTATOES		20.800	1	13.00
	META-SYSTOX-R	BROCCOLI		5.500	1	11.00
	METHOMYL	BROCCOLI		4.950	1	11.00
		LETTUCE		68.625	7	152.50
	METHOXYCHLOR	CARROTS		56.500	3	56.50
	METHYL PARATHION	CELERY		517.500	39	517.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-12 S	NABAM	CELERY		810.930	47	641.00
		LETTUCE		71.758	3	71.50
	PARATHION	CELERY		19.500	1	19.50
	PERTHANE	LETTUCE		93.000	3	46.50
	PETROLEUM SOLVENTS	CARROTS		33,449.833	3	56.50
	PHORATE	LETTUCE		46.890	2	50.00
	PHOSDRIN	CELERY		171.949	45	629.50
		LETTUCE		33.567	4	68.00
	SULFUR	CELERY		6,950.000	10	278.00
	SYSTOX	CAULIFLOWER		31.500	6	63.00
	TOK-25	BROCCOLI		349.500	10	116.50
		CAULIFLOWER		58.500	3	19.50
		CELERY		187.500	6	62.50
	TOXAPHENE	CAULIFLOWER		252.000	6	63.00
		CELERY		84.000	2	21.00
	MISC. MINOR ELEMENTS	LETTUCE		674.750	2	50.00
	SPREADERS	BROCCOLI		3.957	1	11.00
		CAULIFLOWER		26.415	7	73.50
		CELERY		512.765	48	661.50
		LETTUCE		143.003	10	199.00
	COPPER	CELERY		396.050	8	228.00
10N/35W-13 S	DDT	BROCCOLI		58.000	2	29.00
		CAULIFLOWER		120.000	3	60.00
	DI-SYSTON	BROCCOLI		.060	1	30.00
		CAULIFLOWER		43.125	2	41.00
		POTATOES		116.955	1	46.00
	EPTAM	BEANS, DRY		114.750	4	65.50
		POTATOES		28.500	1	9.50
	ETHYLENE BROMIDE EDB	BEANS, GREEN LIMA		1,411.205	1	24.00
		CAULIFLOWER		950.400	1	16.50
	GUTHION	POTATOES		74.625	4	99.50
	LINURON	CARROTS		102.000	3	68.00
	MANEB	POTATOES		79.200	3	49.50
	META-SYSTOX-R	POTATOES		24.750	3	49.50
	METHYL PARATHION	BROCCOLI		3.188	1	17.00
	PARATHION	BROCCOLI		6.375	1	17.00
		FALLOWLAND		141.000	1	23.50
	PETROLEUM SOLVENTS	CARROTS		7,331.625	1	17.50
	PHOSDRIN	LETTUCE		18.000	1	18.00
	SYSTOX	BROCCOLI		29.750	3	59.50
		CAULIFLOWER		30.000	3	60.00
	TOK-25	CARROTS		75.000	1	25.00
		CAULIFLOWER		180.000	3	60.00
	TOXAPHENE	BROCCOLI		116.000	2	29.00
		CAULIFLOWER		240.000	3	60.00
	2,4-D	CORN		40.146	2	107.00
		OATS		4.500	1	6.00
	SPREADERS	CAULIFLOWER		27.668	3	60.00
		CORN		40.303	2	107.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-13 S	SPREADERS	POTATOES		17.791	3	49.50
10N/35W-14 S	COPPER SULFA-PENTHAH	BROCCOLI		6.850	2	55.00
	DDT	BROCCOLI		566.000	13	283.00
	DIMETHOATE	BROCCOLI		10.012	1	20.00
	DI-SYSTON	BROCCOLI		434.349	18	410.50
		POTATOES		84.000	1	40.00
	ENDOSULFAN	BROCCOLI		20.000	1	20.00
	GUTHION	POTATOES		142.045	4	176.00
	MANEB	POTATOES		201.600	3	126.00
	META-SYSTOX-R	POTATOES		21.000	1	42.00
	METHYL PARATHION	BROCCOLI		53.067	13	283.00
	PARATHION	BROCCOLI		139.875	13	283.00
		FALLOWLAND		240.000	1	40.00
	PERTHANE	BROCCOLI		20.000	1	20.00
	SULFUR	BROCCOLI		137.000	4	110.00
	SYSTOX	BROCCOLI		149.500	13	299.00
	TOXAPHENE	BROCCOLI		1,132.000	13	283.00
	TRIFLURALIN	BROCCOLI		18.278	1	32.50
	ZINEB	BROCCOLI		34.250	2	55.00
	2,4-D	CORN		60.782	1	162.00
	SPREADERS	CORN		58.199	1	162.00
	ZINC	POTATOES		1.680	1	42.00
10N/35W-15 S	BALAN	LETTUCE		5.626	2	10.00
	BTB	CABBAGE		.720	1	3.00
		CAULIFLOWER		1.680	1	7.00
	CIPC	LETTUCE		17.500	2	10.00
	COPPER SULFA-PENTHAH	BROCCOLI		140.450	3	87.00
	DDT	BROCCOLI		13.750	1	11.00
	DIMETHOATE	BROCCOLI		20.750	2	41.50
	DI-SYSTON	BROCCOLI		103.020	3	103.00
		POTATOES		52.800	1	22.00
	ENDOSULFAN	LETTUCE		5.000	1	5.00
	ETHYLENE BROMIDE EDB	FALLOWLAND		1,756.800	1	30.50
	GUTHION	POTATOES		39.000	3	52.00
	LINDANE	CABBAGE		.400	1	2.00
		LETTUCE		1.000	1	5.00
	MANEB	BROCCOLI		38.400	1	16.00
		POTATOES		83.200	3	52.00
	META-SYSTOX-R	BROCCOLI		18.000	2	36.00
	METHYL PARATHION	LETTUCE		2.500	1	5.00
	NABAM	BROCCOLI		20.000	1	16.00
	PHORATE	LETTUCE		3.750	1	5.00
	PHOSDRIN	CABBAGE		6.000	3	6.00
		CAULIFLOWER		7.000	1	7.00
	SULFUR	BROCCOLI		857.000	3	87.00
	SYSTOX	BROCCOLI		25.000	2	50.00
		CABBAGE		.750	1	1.50
	TOK-25	BROCCOLI		210.000	3	70.00
		CELERY		69.500	5	28.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-15 S	TOXAPHENE	BROCCOLI		27.500	1	11.00
	TRIFLURALIN	BROCCOLI		36.415	2	53.50
		CABBAGE		1.008	1	2.00
	ZINEB	BROCCOLI		141.200	3	86.00
	MISC. MINOR ELEMENTS	BROCCOLI		269.900	1	16.00
	SPREADERS	BROCCOLI		58.084	5	107.50
10N/35W-16 S	BALAN	LETTUCE		13.500	2	24.00
	BTB	BROCCOLI		2.880	1	12.00
		CAULIFLOWER		4.800	1	20.00
		LETTUCE		4.320	2	18.00
	CIPC	LETTUCE		42.000	2	24.00
	COPPER OXYCHLORIDE	BROCCOLI		7.500	1	30.00
	COPPER SULFA-PENTHAH	BROCCOLI		41.700	7	205.00
	DBCP	CARROTS		229.328	1	20.00
	DDT	BROCCOLI		160.500	4	104.50
		CAULIFLOWER		15.000	1	12.00
	DIMETHOATE	CABBAGE		3.375	1	6.00
		CAULIFLOWER		5.008	1	20.00
		LETTUCE		1.875	1	10.00
	DI-SYSTON	BROCCOLI		33.995	2	34.00
		CABBAGE		5.001	1	5.00
		CAULIFLOWER		20.004	1	20.00
		POTATOES		135.750	2	55.00
	ENDOSULFAN	CABBAGE		17.000	3	17.00
		LETTUCE		37.000	3	37.00
	EPTAM	BEANS, DRY		121.500	1	54.00
	LINURON	CARROTS		39.000	2	26.00
	META-SYSTOX-R	BROCCOLI		24.125	3	66.50
		CABBAGE		3.000	1	6.00
		CAULIFLOWER		6.000	1	12.00
	METHOXYCHLOR	CARROTS		16.500	1	16.50
	METHYL PARATHION	ARTICHOKES		17.100	1	57.00
		CABBAGE		3.000	1	6.00
		LETTUCE		20.000	3	40.00
	NABAM	BROCCOLI		46.175	2	36.50
	PARATHION	ARTICHOKES		34.200	1	57.00
		CABBAGE		.750	1	6.00
		LETTUCE		3.750	2	30.00
	PETROLEUM SOLVENTS	BROCCOLI		4.988	1	10.00
		CARROTS		22,250.900	2	37.00
	PHORATE	LETTUCE		22.500	2	30.00
	PHOSDRIN	BROCCOLI		12.000	1	12.00
		CABBAGE		6.000	1	6.00
		CAULIFLOWER		40.000	2	40.00
		LETTUCE		23.000	3	28.00
	PHOSPHAMIDON	POTATOES		95.000	3	95.00
	PLANAVIN	BROCCOLI		12.500	1	12.50
	SULFUR	BROCCOLI		196.800	8	235.00
	SYSTOX	BROCCOLI		42.250	4	84.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-16 S	SYSTOX	CABBAGE		2.500	1	5.00
		LETTUCE		3.500	1	7.00
	TOK-25	BROCCOLI		118.000	3	59.00
		CABBAGE		12.500	1	5.00
		CAULIFLOWER		30.000	1	12.00
	TOXAPHENE	BROCCOLI		321.000	4	104.50
	TRIFLURALIN	CABBAGE		1.262	1	5.00
	ZINEB	BROCCOLI		246.000	8	235.00
	SPREADERS	BROCCOLI		66.649	5	111.00
10N/35W-17 S	BTB	BROCCOLI		7.680	2	32.00
	CDEC	BROCCOLI		10.500	1	3.50
	COPPER SULFA-PENTHAH	BROCCOLI		10.800	4	70.00
		CABBAGE		39.200	1	14.00
	DBCP	BROCCOLI		1,028.370	2	59.00
		CARROTS		205.700	1	17.00
	DDT	BROCCOLI		136.000	3	68.00
	DIAZINON	BROCCOLI		7.500	1	15.00
	DIMETHOATE	BROCCOLI		12.509	2	25.00
	DI-SYSTON	BEANS, DRY		50.010	1	50.00
		BROCCOLI		214.673	8	207.00
	ENDOSULFAN	ARTICHOKES		38.250	1	51.00
		BROCCOLI		15.000	1	15.00
		CABBAGE		10.000	1	10.00
		LETTUCE		196.500	18	261.00
	GUTHION	BROCCOLI		55.750	8	111.50
	METHYL PARATHION	ARTICHOKES		46.200	4	154.00
		BROCCOLI		66.938	11	154.50
		CABBAGE		1.875	1	10.00
		LETTUCE		52.439	18	258.00
	PARATHION	ARTICHOKES		92.400	4	154.00
		BROCCOLI		22.813	8	116.50
		CABBAGE		3.750	1	10.00
		LETTUCE		93.500	18	258.00
	PERTHANE	CABBAGE		20.000	1	10.00
		LETTUCE		101.000	6	101.00
	PHORATE	LETTUCE		96.013	9	96.00
	PHOSDRIN	BROCCOLI		32.000	2	32.00
		LETTUCE		8.000	1	16.00
	SULFUR	BROCCOLI		94.400	6	102.00
		CABBAGE		280.000	1	14.00
		STRAWBERRIES		735.000	1	15.00
	SYSTOX	BROCCOLI		41.500	4	83.00
		CABBAGE		10.000	2	20.00
	TOK-25	BROCCOLI		90.000	1	30.00
		LETTUCE		68.000	1	17.00
	TOXAPHENE	BROCCOLI		717.500	14	226.50
		LETTUCE		589.000	11	152.00
	TRIFLURALIN	BROCCOLI		13.395	1	23.50
	ZINEB	BROCCOLI		54.000	4	70.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-17 S	IRON	LETTUCE		.480	1	16.00
	SPREADERS	BROCCOLI		35.925	2	50.00
	MAGNESUIM	LETTUCE		.859	1	16.00
	ZINC	LETTUCE		6.139	1	16.00
	COPPER	LETTUCE		.394	1	16.00
10N/35W-18 S	BTB	LETTUCE		1.200	1	10.00
	COPPER HYDROXIDE	CELERY		72.500	2	29.00
	COPPER SULFA-PENTHAH	CABBAGE		1.800	2	18.00
	DDT	BROCCOLI		99.000	3	43.00
		CABBAGE		84.000	4	42.00
	DIMETHOATE	CAULIFLOWER		6.231	1	14.00
	ENDOSULFAN	BROCCOLI		6.000	1	12.00
		CABBAGE		52.000	6	52.00
		CAULIFLOWER		14.000	1	14.00
		CELERY		64.000	4	64.00
		LETTUCE		120.000	15	153.00
	LINDANE	CABBAGE		2.250	1	12.00
	MANEB	CELERY		120.400	4	64.00
	META-SYSTOX-R	BROCCOLI		9.500	1	19.00
		CABBAGE		25.000	5	50.00
	METHOMYL	CABBAGE		4.500	1	10.00
		LETTUCE		7.650	2	17.00
	METHYL PARATHION	ARTICHOKES		15.300	1	51.00
		CABBAGE		13.500	8	72.00
		CELERY		14.252	5	76.00
		LETTUCE		23.188	12	121.00
	PARAQUAT	FALLOWLAND		6.000	1	12.00
		WEED		5.500	1	22.00
	PARATHION	ARTICHOKES		30.600	1	51.00
		CABBAGE		31.500	9	84.00
		CELERY		28.500	5	76.00
		FALLOWLAND		10.500	1	21.00
		LETTUCE		46.373	12	121.00
	PERTHANE	CABBAGE		22.000	3	22.00
		LETTUCE		54.000	5	54.00
	PHOSDRIN	BROCCOLI		11.200	1	14.00
		CABBAGE		9.000	1	9.00
		CAULIFLOWER		7.000	1	14.00
		CELERY		20.000	2	40.00
		LETTUCE		21.000	4	42.00
	SULFUR	BROCCOLI		7.200	1	12.00
		CABBAGE		36.000	4	36.00
		CELERY		200.000	1	8.00
	SYSTOX	CABBAGE		27.000	6	54.00
		CAULIFLOWER		21.000	3	42.00
	TOK-25	BROCCOLI		32.500	3	16.00
	TOXAPHENE	BROCCOLI		198.000	3	43.00
		CABBAGE		168.000	4	42.00
		CELERY		156.000	3	36.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-18 S	TOXAPHENE	LETTUCE		387.500	9	92.00
	ZINEB	CABBAGE		9.000	2	18.00
	SPREADERS	BROCCOLI		5.988	1	5.00
		FALLOWLAND		2.759	1	21.00
	ZINC	BROCCOLI		9.000	1	12.00
		CELERY		.960	2	24.00
	COPPER	BROCCOLI		1.800	1	12.00
		CELERY		28.000	1	8.00
10N/35W-19 S	BTB	CABBAGE		.960	1	4.00
	CARBARYL	CABBAGE		4.000	1	4.00
	DIMETHOATE	LETTUCE		1.313	1	7.00
	DI-SYSTON	BROCCOLI		25.005	1	25.00
	ENDOSULFAN	CABBAGE		3.500	1	3.50
		LETTUCE		212.000	12	212.00
	METHYL PARATHION	CABBAGE		1.750	1	3.50
		LETTUCE		102.125	12	212.00
	PARATHION	CABBAGE		.438	1	3.50
		LETTUCE		17.375	8	139.00
	PHORATE	LETTUCE		84.750	7	112.00
	PHOSDRIN	CABBAGE		7.500	2	7.50
		LETTUCE		125.000	9	125.00
	2,4-D	OATS		262.500	1	350.00
10N/35W-20 S	COPPER SULFA-PENTHAH	BROCCOLI		8.000	1	10.00
	DICAMBA	OATS		28.500	1	114.00
	ENDOSULFAN	LETTUCE		14.000	1	14.00
	KELTHANE	STRAWBERRIES		8.400	1	6.00
	NALED	STRAWBERRIES		65.820	2	35.00
	PHOSDRIN	LETTUCE		14.000	1	14.00
		STRAWBERRIES		20.000	3	24.00
	SULFUR	BROCCOLI		2.000	1	10.00
		STRAWBERRIES		417.600	4	28.00
	TEPP	STRAWBERRIES		9.570	1	29.00
	TOK-25	BROCCOLI		46.250	2	23.00
	2,4-D	OATS		1,168.500	1	114.00
	ZINC SULPHATE	BROCCOLI		10.000	1	10.00
10N/35W-21 S	DICAMBA	OATS		5.500	1	22.00
	ENDOSULFAN	ARTICHOKES		177.250	7	233.00
	EPTAM	BEANS, DRY		75.000	1	25.00
	ENDRIN BAIT	ARTICHOKES		4.000	1	80.00
	METHYL PARATHION	ARTICHOKES		312.450	27	1,041.50
	PARATHION	ARTICHOKES		245.100	10	408.50
	METHYL PARATHION	ARTICHOKES		4.500	1	15.00
	PARATHION	ARTICHOKES		33.600	1	56.00
	METHYL PARATHION	ARTICHOKES		4.800	1	16.00
	PARATHION	ARTICHOKES		439.050	18	608.00
	PHOSDRIN	LETTUCE		.309	1	12.00
	SYSTOX	BROCCOLI		8.500	1	17.00
	TOK-25	BROCCOLI		36.750	2	22.50
	TOXAPHENE	BROCCOLI		152.460	1	22.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-21 S	TRIFLURALIN	BEANS, DRY		12.621	1	25.00
	2,4-D	OATS		22.000	1	22.00
		TURF		.250	1	.50
	SPREADERS	BROCCOLI		2.261	2	22.50
	NITROGEN ELEMENTAL	OATS		4.400	1	22.00
	PHOSPHORUS PENTOXIDE	OATS		12.672	1	22.00
	ZINC	OATS		6.595	1	22.00
10N/35W-22 S	BALAN	LETTUCE		2.813	1	5.00
	CARBARYL	BROCCOLI		26.000	2	13.00
	CIPC	LETTUCE		3.828	1	5.00
	DDT	BROCCOLI		457.000	13	206.00
		CABBAGE		7.000	1	3.50
		CAULIFLOWER		85.500	5	52.00
	DIMETHOATE	BROCCOLI		23.009	3	46.00
	DI-SYSTON	BROCCOLI		259.266	13	310.00
		CAULIFLOWER		7.001	1	7.00
	ENDOSULFAN	BROCCOLI		36.000	3	37.00
		CAULIFLOWER		29.500	2	29.50
	EPTAM	BEANS, DRY		169.125	3	72.50
	ETHYLENE BROMIDE EDB	BEANS, DRY		2,611.584	2	44.00
		BROCCOLI		1,468.800	2	25.00
	GUTHION	CAULIFLOWER		5.625	1	7.50
	LINDANE	BROCCOLI		4.383	1	8.50
	META-SYSTOX-R	BROCCOLI		66.438	10	135.50
		CABBAGE		1.750	1	3.50
		CAULIFLOWER		31.125	5	66.00
	METHOMYL	BROCCOLI		4.950	1	11.00
		CAULIFLOWER		4.050	1	9.00
	METHYL PARATHION	BROCCOLI		12.470	5	66.50
	PARATHION	BROCCOLI		24.938	5	66.50
	PETROLEUM SOLVENTS	BROCCOLI		19.751	1	6.00
	SYSTOX	BROCCOLI		63.250	9	126.50
		CABBAGE		1.750	1	3.50
		CAULIFLOWER		8.500	2	17.00
	TOK-25	BROCCOLI		388.500	6	132.50
	TOXAPHENE	BROCCOLI		914.000	13	206.00
		CABBAGE		14.000	1	3.50
		CAULIFLOWER		148.500	4	44.50
	TRIFLURALIN	BROCCOLI		62.006	4	91.50
	SPREADERS	BROCCOLI		214.156	19	298.00
		CABBAGE		5.040	2	7.00
		CAULIFLOWER		43.247	8	91.00
10N/35W-23 S	BALAN	LETTUCE		7.875	1	7.00
	COPPER SULFA-PENTHAH	BROCCOLI		71.850	2	88.00
	DDT	BROCCOLI		180.000	4	90.00
		CABBAGE		13.000	1	6.50
	DI-SYSTON	BROCCOLI		82.069	4	99.50
		CAULIFLOWER		71.015	4	71.00
		PEAS		97.500	1	65.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-23 S	ENDOSULFAN	BROCCOLI		44.000	3	44.00
		LETTUCE		15.000	3	15.00
	IPC	LETTUCE		28.000	1	7.00
	META-SYSTOX-R	BROCCOLI		18.500	2	37.00
		CABBAGE		3.000	1	6.00
		NURSERY PLANTINGS		10.000	1	20.00
	METHOMYL	BROCCOLI		9.000	1	20.00
	METHYL PARATHION	BROCCOLI		13.875	3	74.00
		LETTUCE		6.875	2	11.00
	PARATHION	BROCCOLI		27.750	3	74.00
		NURSERY PLANTINGS		10.000	1	20.00
	PETROLEUM SOLVENTS	CARROTS		10,590.125	1	24.50
	PHOSDRIN	CABBAGE		6.000	1	6.00
		LETTUCE		2.000	1	4.00
	SULFUR	BROCCOLI		567.400	2	88.00
		NURSERY PLANTINGS		78.400	1	2.00
	SYSTOX	BROCCOLI		66.000	6	132.00
		CABBAGE		3.250	1	6.50
	TOK-25	BROCCOLI		98.000	3	38.00
		CABBAGE		15.000	1	6.00
	TOXAPHENE	BROCCOLI		360.000	4	90.00
		CABBAGE		26.000	1	6.50
	ZINEB	BROCCOLI		53.000	1	53.00
	SPREADERS	NURSERY PLANTINGS		7.185	1	20.00
10N/35W-24 S	DDT	BROCCOLI		218.000	4	109.00
	DIAZINON	LETTUCE		4.500	1	9.00
	DI-SYSTON	BROCCOLI		86.688	5	96.50
	ENDOSULFAN	BROCCOLI		66.500	4	66.50
		LETTUCE		29.500	7	39.00
	ETHYLENE BROMIDE EDB	CARROTS		1,964.436	2	22.00
	GUTHION	POTATOES		3.750	1	5.00
	MANEB	POTATOES		8.000	1	5.00
	META-SYSTOX-R	BROCCOLI		14.000	1	28.00
	METHOXYCHLOR	CARROTS		14.500	2	14.50
	METHYL PARATHION	BROCCOLI		27.845	8	148.50
		LETTUCE		7.314	7	39.00
	PARATHION	BROCCOLI		79.313	8	148.50
		LETTUCE		14.626	7	39.00
	PERTHANE	LETTUCE		11.000	2	11.00
	PETROLEUM SOLVENTS	CARROTS		8,177.838	2	14.50
	SYSTOX	BROCCOLI		86.125	8	182.00
	TOK-25	BROCCOLI		46.500	1	15.50
	TOXAPHENE	BROCCOLI		576.000	5	137.00
		LETTUCE		78.250	4	19.00
	SPREADERS	BROCCOLI		64.311	2	89.50
10N/35W-25 S	DIMETHOATE	LETTUCE		6.095	3	28.50
	ENDOSULFAN	LETTUCE		260.500	20	267.50
	METHYL PARATHION	LETTUCE		62.750	9	131.00
	PARATHION	LETTUCE		12.126	7	97.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-25 S	PHORATE	LETTUCE		174.251	17	230.00
	PHOSDRIN	LETTUCE		114.500	12	144.50
10N/35W-26 S	BALAN	LETTUCE		28.408	6	50.50
	DDT	BROCCOLI		18.000	1	6.00
		CABBAGE		25.000	4	14.00
		CAULIFLOWER		28.000	2	14.00
	DI-SYSTON	BROCCOLI		20.004	1	20.00
	ENDOSULFAN	CABBAGE		.750	1	1.00
		CAULIFLOWER		10.000	2	10.00
		LETTUCE		40.500	4	40.50
	EPTAM	BEANS, DRY		31.875	1	17.00
		FALLOWLAND		36.000	1	32.00
	IPC	LETTUCE		75.750	6	50.50
	LINDANE	BROCCOLI		47.657	4	115.00
		CABBAGE		1.547	1	3.00
		FALLOWLAND		8.253	1	32.00
		LETTUCE		26.038	6	50.50
	META-SYSTOX-R	CABBAGE		10.000	6	20.00
		CAULIFLOWER		16.500	4	33.00
	METHYL PARATHION	LETTUCE		22.625	2	29.00
	PARATHION	CABBAGE		.250	1	1.00
	PERTHANE	LETTUCE		10.500	3	10.50
	PHOSDRIN	BROCCOLI		6.400	1	8.00
		CABBAGE		8.000	3	8.00
		CAULIFLOWER		25.000	3	25.00
		LETTUCE		14.000	4	15.00
	SEVIN BAIT	BROCCOLI		8.000	1	4.00
	SYSTOX	CAULIFLOWER		5.000	2	10.00
	TOXAPHENE	BROCCOLI		36.000	1	6.00
		CABBAGE		50.000	4	14.00
		CAULIFLOWER		56.000	2	14.00
	TRIFLURALIN	BROCCOLI		69.820	4	115.00
		CABBAGE		2.000	1	3.00
		FALLOWLAND		12.006	1	32.00
	2,4-D	BARLEY		36.500	1	36.50
	SPREADERS	BARLEY		21.852	1	36.50
		CABBAGE		1.083	1	3.00
		LETTUCE		1.973	1	5.50
10N/35W-27 S	BALAN	LETTUCE		2.250	1	4.00
	CARBARYL	BROCCOLI		10.000	1	5.00
	CIPC	LETTUCE		7.000	1	4.00
	DDT	BROCCOLI		15.000	1	5.00
	DI-SYSTON	CABBAGE		4.001	1	4.00
		CAULIFLOWER		4.501	1	4.50
	ENDOSULFAN	BROCCOLI		27.000	2	27.00
	LINDANE	BROCCOLI		23.350	2	88.00
		LETTUCE		.008	1	4.00
	META-SYSTOX-R	BROCCOLI		13.500	2	27.00
	PHORATE	LETTUCE		7.001	1	7.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/35W-27 S	PHOSDRIN	WEED		10.000	1	10.00
	TOXAPHENE	BROCCOLI		30.000	1	5.00
	TRIFLURALIN	BROCCOLI		50.097	2	88.00
	2,4-D	OATS		7.000	1	7.00
	SPREADERS	BROCCOLI		19.410	2	27.00
		OATS		4.196	1	7.00
10N/35W-35 S	PHORATE	SUGAR BEETS		5.001	1	5.00
	2,4-D	OATS		245.000	1	245.00
	SPREADERS	OATS		146.699	1	245.00
10N/35W-36 S	2,4-D	OATS		135.000	1	270.00
		PASTURE, MEADOW		20.000	1	10.00
10N/35W-88 S	CHLORDANE	STRUCTURAL CONTROL	7.000			
	DIAZINON		.500			
	DIELDRIN		.310			
	HEPTACHLOR		.009			
	PCP		.265			
10N/35W-99 S	AMITROLE	RESIDENTIAL CONTR.	84.952			
	ANSAR 170		15.000			
	ATRAZINE		26.000			
	BROMACIL		75.160			
	CARBARYL		8.000			
	CHLORDANE		4.961			
	DIAZINON		10.500			
	ENDRIN		40.410			
	FENAC		24.750			
	MALATHION		.250			
	PETROLEUM SOLVENTS		2,660.000			
	SIMAZINE		16.000			
	TRYSBEN,TCB		12.000			
	2,4-D		6.000			
	PURAT SPRAY		.080			
10N/36W-12 S	CARBARYL	CABBAGE		11.000	1	5.50
	DIAZINON	BROCCOLI		2.875	1	11.50
		LETTUCE		36.250	5	72.50
	DIMETHOATE	LETTUCE		6.503	2	26.00
	ENDOSULFAN	CABBAGE		8.000	1	8.00
		LETTUCE		59.250	5	82.50
	META-SYSTOX-R	CABBAGE		9.750	2	19.50
	METHOMYL	CABBAGE		11.250	3	25.00
		LETTUCE		56.250	8	125.00
	METHOXYCHLOR	BROCCOLI		23.000	1	11.50
	METHYL PARATHION	LETTUCE		47.000	3	47.00
	NABAM	LETTUCE		139.976	9	138.50
	PERTHANE	CABBAGE		5.500	1	5.50
		LETTUCE		52.000	2	26.00
	PETROLEUM SOLVENTS	CABBAGE		14.816	1	6.00
	PHORATE	LETTUCE		60.951	6	68.00
	PHOSDRIN	BROCCOLI		2.875	1	11.50
		CABBAGE		5.500	1	5.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
10N/36W-12 S	PHOSDRIN	LETTUCE		10.625	3	42.50
	TOK-25	CABBAGE		41.000	2	14.00
	ZINEB	BROCCOLI		25.296	1	11.50
	MISC. MINOR ELEMENTS	LETTUCE		209.173	1	15.50
	SPREADERS	CABBAGE		15.989	3	25.00
		LETTUCE		88.216	10	153.50
10N/36W-23 S	2,4-D	OATS		300.000	1	400.00
11N/35W-04 S	DI-SYSTON	POTATOES		67.500	1	30.00
11N/35W-05 S	PARATHION	CELERY		69.600	10	87.00
		FALLOWLAND		1.600	1	2.00
	PERTHANE	CAULIFLOWER		25.000	1	10.00
	PHOSDRIN	CAULIFLOWER		6.000	1	10.00
11N/35W-06 S	META-SYSTOX-R	BROCCOLI		21.500	1	43.00
	TOK-25	BROCCOLI		62.000	1	31.00
11N/35W-10 S	EPTAM	BEANS, DRY		228.000	1	76.00
11N/35W-17 S	ENDOSULFAN	LETTUCE		152.000	5	152.00
	METHOMYL	LETTUCE		60.750	4	135.00
	PHORATE	LETTUCE		15.943	1	17.00
	SPREADERS	LETTUCE		97.555	5	152.00
11N/35W-18 S	BTB	LETTUCE		.600	1	5.00
	ENDOSULFAN	LETTUCE		193.500	12	212.50
	METHOMYL	LETTUCE		71.775	9	159.50
	METHYL PARATHION	LETTUCE		6.750	2	36.00
	PARATHION	LETTUCE		13.500	2	36.00
	PERTHANE	LETTUCE		155.000	4	95.00
	PHORATE	LETTUCE		33.193	2	40.00
	PHOSDRIN	LETTUCE		62.500	3	65.00
	TOXAPHENE	LETTUCE		72.000	1	18.00
	SPREADERS	LETTUCE		100.612	10	176.50
11N/35W-19 S	BTB	CABBAGE		.720	1	6.00
	DI-SYSTON	CABBAGE		.008	1	4.00
	ENDOSULFAN	CELERY		64.000	7	78.00
	METHYL PARATHION	CELERY		71.000	7	78.00
	PHORATE	LETTUCE		12.000	3	16.00
	PHOSDRIN	CABBAGE		6.000	1	6.00
		LETTUCE		22.000	3	22.00
	TOXAPHENE	CELERY		452.000	8	113.00
11N/35W-20 S	BTB	LETTUCE		15.000	1	12.00
	DI-SYSTON	BROCCOLI		27.005	1	27.00
	ENDOSULFAN	LETTUCE		79.500	8	99.00
	METHYL PARATHION	LETTUCE		14.438	6	77.00
	PARATHION	LETTUCE		28.875	6	77.00
	PERTHANE	LETTUCE		60.000	5	60.00
	PHOSDRIN	LETTUCE		20.000	3	34.00
	TOXAPHENE	LETTUCE		162.000	3	39.00
11N/35W-21 S	DI-SYSTON	BROCCOLI		30.006	1	30.00
	ENDOSULFAN	LETTUCE		36.000	1	36.00
	METHOMYL	LETTUCE		16.200	1	36.00
	NABAM	LETTUCE		36.432	1	36.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11N/35W-21 S	PHOSDRIN	LETTUCE		9.000	1	36.00
	SPREADERS	LETTUCE		25.866	1	36.00
11N/35W-22 S	BALAN	LETTUCE		165.659	12	294.50
	BORAX AND BORIC ACID	CELERY		20.700	1	11.50
	CARBARYL	LETTUCE		41.000	1	20.50
	DIAZINON	CELERY		5.750	1	11.50
		LETTUCE		84.250	13	168.50
	DIMETHOATE	LETTUCE		30.138	7	120.50
	ENDOSULFAN	LETTUCE		256.000	15	276.50
	IPC	LETTUCE		441.750	12	294.50
	MALATHION	LETTUCE		284.000	10	156.50
	METHOMYL	CABBAGE		5.400	1	12.00
		LETTUCE		62.775	11	139.50
	METHYL PARATHION	CELERY		11.500	1	11.50
		LETTUCE		143.000	9	143.00
	NABAM	CELERY		14.545	1	11.50
		LETTUCE		125.152	15	124.00
	PERTHANE	LETTUCE		293.500	6	156.50
	PHORATE	LETTUCE		133.169	11	142.00
	PHOSDRIN	CELERY		2.875	1	11.50
		LETTUCE		88.750	12	194.00
	SYSTOX	CABBAGE		6.000	1	12.00
	TOXAPHENE	LETTUCE		332.000	3	83.00
	2,4-D	OATS		32.500	1	32.50
	MISC. MINOR ELEMENTS	LETTUCE		661.256	6	49.00
	SPREADERS	CABBAGE		8.622	1	12.00
		CELERY		5.509	1	11.50
		LETTUCE		274.118	32	519.00
		OATS		19.457	1	32.50
11N/35W-23 S	DDT	BROCCOLI		26.000	1	13.00
	ENDOSULFAN	CABBAGE		5.000	1	5.00
	META-SYSTOX-R	BROCCOLI		8.805	1	13.00
		CABBAGE		2.500	1	5.00
		CARROTS		16.500	1	33.00
	METHYL PARATHION	BROCCOLI		2.438	1	13.00
		CABBAGE		.938	1	5.00
	PARATHION	BROCCOLI		4.875	1	13.00
		CABBAGE		1.875	1	5.00
	TOXAPHENE	BROCCOLI		52.000	1	13.00
		CABBAGE		22.500	1	5.00
	SPREADERS	CARROTS		23.711	1	33.00
11N/35W-24 S	DDT	BROCCOLI		51.000	3	25.50
	DIMETHOATE	BROCCOLI		4.250	1	8.50
	ENDOSULFAN	BROCCOLI		8.500	1	8.50
		LETTUCE		93.000	7	130.00
	GUTHION	POTATOES		5.250	2	7.00
	LINURON	CARROTS		46.500	2	31.00
	MANEB	POTATOES		126.400	4	79.00
	META-SYSTOX-R	POTATOES		16.000	2	32.00

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11N/35W-24 S	METHOMYL	BROCCOLI		2.700	1	6.00
	METHOXYCHLOR	CARROTS		13.000	1	13.00
	METHYL PARATHION	LETTUCE		20.625	6	110.00
	PARATHION	LETTUCE		41.250	6	110.00
	PERTHANE	LETTUCE		56.000	3	56.00
	PETROLEUM SOLVENTS	CARROTS		11,570.801	2	20.50
	PHOSDRIN	LETTUCE		10.000	1	20.00
	SYSTOX	BROCCOLI		23.500	6	47.00
	TOK-25	BROCCOLI		114.000	5	42.00
		CARROTS		91.500	2	30.50
	TOXAPHENE	BROCCOLI		102.000	3	25.50
		LETTUCE		296.000	4	74.00
	SPREADERS	BROCCOLI		34.681	7	55.50
		CARROTS		5.748	1	8.00
	NITROGEN ELEMENTAL	CARROTS		6.400	1	8.00
	PHOSPHORUS PENTOXIDE	CARROTS		12.288	1	8.00
	POTASSIUM ELEMENTAL	CARROTS		2.291	1	8.00
11N/35W-25 S	BALAN	LETTUCE		21.656	2	38.50
	BORAX AND BORIC ACID	CELERY		18.900	2	10.50
	BTB	CABBAGE		12.500	1	12.50
	CARBARYL	LETTUCE		39.000	1	19.50
	CIPC	LETTUCE		67.375	2	38.50
	DIAZINON	CAULIFLOWER		2.000	1	4.00
		CELERY		12.500	5	25.00
		LETTUCE		91.500	15	188.00
	DIMETHOATE	BROCCOLI		4.000	1	8.00
		CAULIFLOWER		2.000	1	4.00
		LETTUCE		16.633	5	66.50
	DI-SYSTON	BROCCOLI		32.022	5	40.00
		POTATOES		204.000	3	69.00
	ENDOSULFAN	BROCCOLI		25.000	2	25.00
		CABBAGE		6.250	1	12.50
		CAULIFLOWER		6.000	2	8.00
		CELERY		2.750	1	5.50
		LETTUCE		314.875	21	349.00
		POTATOES		116.500	4	143.00
	EPTAM	BEANS, DRY		87.000	2	29.00
		POTATOES		262.500	3	87.50
	GUTHION	POTATOES		110.375	5	174.00
	LINURON	CARROTS		96.750	3	64.50
	MALATHION	CELERY		6.750	1	4.50
		LETTUCE		41.000	2	25.50
	MANEB	CELERY		10.800	1	4.50
		POTATOES		419.200	7	262.00
	META-SYSTOX-R	POTATOES		75.000	6	150.00
	METHOMYL	CAULIFLOWER		3.600	2	8.00
		LETTUCE		176.850	26	393.00
	METHOXYCHLOR	CARROTS		64.500	3	64.50
		CELERY		4.500	1	4.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11N/35W-25 S	METHYL PARATHION	CELERY		23.875	5	25.00
		LETTUCE		68.125	7	83.50
	NABAM	CELERY		23.405	4	20.50
		LETTUCE		271.165	17	259.50
		POTATOES		111.320	4	88.00
	PERTHANE	LETTUCE		208.500	10	127.00
	PETROLEUM SOLVENTS	BROCCOLI		65.842	1	16.00
		CARROTS		36,791.524	3	64.50
		CELERY		5,720.663	2	10.50
	PHORATE	LETTUCE		108.311	7	120.00
	PHOSDRIN	CAULIFLOWER		2.000	1	4.00
		CELERY		8.313	5	25.00
		LETTUCE		32.565	10	112.50
	SYSTOX	BROCCOLI		19.500	2	39.00
		CABBAGE		6.250	1	12.50
	TOK-25	BROCCOLI		298.500	5	107.50
		CABBAGE		51.000	2	17.00
		CAULIFLOWER		19.500	1	6.50
		CELERY		21.000	1	7.00
	TOXAPHENE	LETTUCE		66.000	2	22.00
	TRIFLURALIN	BROCCOLI		29.697	2	47.50
	MISC. MINOR ELEMENTS	LETTUCE		202.425	1	15.00
	SPREADERS	BROCCOLI		30.896	3	47.00
		CABBAGE		8.986	1	12.50
		CAULIFLOWER		5.748	2	8.00
		CELERY		10.605	5	25.00
		LETTUCE		256.549	36	533.50
		POTATOES		50.296	4	88.00
11N/35W-26 S	BALAN	LETTUCE		91.126	11	162.00
	CARBARYL	LETTUCE		116.500	5	66.50
	CIPC	LETTUCE		59.500	3	34.00
	COPPER OXYCHLORIDE	LETTUCE		.100	1	1.00
	DIAZINON	LETTUCE		158.500	21	317.00
	DIMETHOATE	LETTUCE		43.288	14	173.00
	ENDOSULFAN	ALMONDS		24.000	1	24.00
		BROCCOLI		8.500	1	8.50
		LETTUCE		426.625	41	545.00
	IPC	LETTUCE		192.000	8	128.00
	MALATHION	LETTUCE		246.300	9	135.00
	META-SYSTOX-R	BROCCOLI		5.500	1	11.00
	METHOMYL	LETTUCE		202.500	37	450.00
	METHYL PARATHION	LETTUCE		190.126	22	285.50
	NABAM	LETTUCE		464.837	29	450.00
	PARATHION	BROCCOLI		4.250	1	8.50
		LETTUCE		37.500	8	100.00
	PERTHANE	LETTUCE		523.000	20	278.50
	PHORATE	LETTUCE		293.984	27	325.00
	PHOSDRIN	ALMONDS		12.000	1	24.00
		LETTUCE		152.252	25	361.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11N/35W-26 S	SULFUR	LETTUCE		.400	1	1.00
	SYSTOX	BROCCOLI		4.250	1	8.50
		CAULIFLOWER		12.500	1	25.00
	TOXAPHENE	LETTUCE		558.000	11	138.00
	TRIFLURALIN	BROCCOLI		12.504	2	20.00
	ZINEB	LETTUCE		.500	1	1.00
	MISC. MINOR ELEMENTS	LETTUCE		1,761.126	9	123.50
	SPREADERS	BROCCOLI		6.112	1	8.50
		LETTUCE		479.896	63	815.50
	COPPER	ALMONDS		38.160	1	24.00
		CELERY		185.250	2	78.00
11N/35W-27 S	BALAN	LETTUCE		41.063	6	73.00
	BTB	CABBAGE		3.000	1	3.00
	CARBARYL	LETTUCE		41.000	2	20.50
	CIPC	LETTUCE		81.156	5	56.50
	DIAZINON	CELERY		2.500	1	5.00
		LETTUCE		132.250	18	264.50
	DIMETHOATE	CABBAGE		.750	1	1.50
		LETTUCE		20.758	7	83.00
	DI-SYSTON	POTATOES		218.993	2	97.00
	ENDOSULFAN	BRUSSEL SPROUTS		1.000	2	1.00
		CABBAGE		5.625	4	7.50
		CELERY		2.500	1	5.00
		LETTUCE		281.875	25	349.00
	ETHYLENE BROMIDE EDB	FALLOWLAND		302.148	1	5.50
	GUTHION	POTATOES		58.000	2	116.00
	IPC	LETTUCE		24.750	1	16.50
	MALATHION	LETTUCE		181.000	9	98.00
	MANEB	LETTUCE		44.600	2	31.00
	META-SYSTOX-R	BRUSSEL SPROUTS		.125	1	.50
		CABBAGE		.750	1	1.50
		POTATOES		50.500	2	116.00
	METHOMYL	CABBAGE		1.350	2	3.00
		LETTUCE		179.100	31	398.00
	METHOXYCHLOR	CELERY		8.000	1	8.00
	METHYL PARATHION	BRUSSEL SPROUTS		.875	2	1.00
		CABBAGE		1.125	1	1.50
		LETTUCE		182.313	15	204.50
	NABAM	BRUSSEL SPROUTS		.506	1	.50
		CELERY		5.060	1	5.00
		LETTUCE		561.398	44	551.50
		POTATOES		70.840	1	56.00
	PARATHION	TURNIPS		82.000	10	164.00
	PERTHANE	LETTUCE		274.000	11	137.00
	PETROLEUM SOLVENTS	CELERY		9,037.250	2	16.50
	PHORATE	LETTUCE		233.581	19	254.50
	PHOSDRIN	CABBAGE		2.250	2	3.00
		CELERY		1.250	1	5.00
		LETTUCE		87.949	19	258.50

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11N/35W-27 S	SYSTOX	CABBAGE		1.500	1	3.00
	TOXAPHENE	BRUSSEL SPROUTS		2.000	1	.50
		CABBAGE		4.500	1	1.50
		LETTUCE		300.500	7	81.00
	2,4-D	WEED		5.000	1	5.00
	MISC. MINOR ELEMENTS	LETTUCE		1,381.567	7	99.00
	SPREADERS	BRUSSEL SPROUTS		.364	2	1.00
		CABBAGE		4.311	4	7.50
		CELERY		1.801	1	5.00
		LETTUCE		399.976	54	706.50
		POTATOES		20.118	1	56.00
11N/35W-28 S	BALAN	LETTUCE		7.031	1	12.50
	DIAZINON	LETTUCE		21.750	1	43.50
	DIMETHOATE	LETTUCE		12.505	2	50.00
	ENDOSULFAN	LETTUCE		393.000	20	490.00
	IPC	LETTUCE		18.750	1	12.50
	METHOMYL	LETTUCE		155.025	16	344.50
	NABAM	LETTUCE		167.490	7	166.50
	PERTHANE	LETTUCE		46.000	2	28.00
	PHORATE	LETTUCE		181.918	8	207.00
	PHOSDRIN	LETTUCE		27.196	2	87.00
	2,4-D	CORN		15.758	2	42.00
	MISC. MINOR ELEMENTS	LETTUCE		1,234.794	3	91.50
	SPREADERS	CORN		15.099	2	42.00
		LETTUCE		323.913	21	508.00
	COPPER	CELERY		20.000	1	8.00
11N/35W-32 S	DDT	BROCCOLI		58.000	1	29.00
	EPTAM	BEANS, DRY		450.000	5	150.00
	GIPBERELLIC ACID	BEANS, DRY		.308	2	62.00
	META-SYSTOX-R	BROCCOLI		14.500	1	29.00
	METHOMYL	BROCCOLI		.900	1	2.00
	METHYL PARATHION	BROCCOLI		28.500	1	28.50
	PETROLEUM SOLVENTS	BROCCOLI		78.191	2	31.00
	SYSTOX	BROCCOLI		15.250	2	30.50
	TOK-25	BROCCOLI		46.500	2	31.00
	TOXAPHENE	BROCCOLI		116.000	1	29.00
	SPREADERS	BROCCOLI		42.756	3	59.50
11N/35W-33 S	BALAN	LETTUCE		6.750	1	12.00
	CIPC	LETTUCE		18.000	1	12.00
	DDT	BROCCOLI		21.250	1	17.00
	DIMETHOATE	BROCCOLI		5.256	1	10.50
	DI-SYSTON	BROCCOLI		.006	1	2.00
		LETTUCE		.036	3	13.50
	ENDOSULFAN	BROCCOLI		10.500	1	10.50
		LETTUCE		132.750	13	146.50
	LINURON	CARROTS		15.000	1	10.00
	META-SYSTOX-R	BROCCOLI		8.500	1	17.00
	METHOMYL	BROCCOLI		8.100	1	18.00
		LETTUCE		18.000	5	40.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11N/35W-33 S	METHYL PARATHION	CARROTS		1.500	1	1.50
		LETTUCE		30.125	7	99.00
	PARATHION	LETTUCE		25.375	6	79.00
	PERTHANE	LETTUCE		12.000	1	12.00
	PETROLEUM SOLVENTS	BROCCOLI		59.252	1	18.00
		CARROTS		6,369.038	2	11.50
	PHORATE	LETTUCE		79.976	8	96.00
	PHOSDRIN	BROCCOLI		1.875	1	2.50
		LETTUCE		17.000	1	17.00
	SYSTOX	BROCCOLI		34.000	3	68.00
	TOK-25	BROCCOLI		27.000	1	18.00
	TOXAPHENE	BROCCOLI		42.500	1	17.00
		LETTUCE		200.000	4	50.00
	SPREADERS	BROCCOLI		42.401	4	59.00
		LETTUCE		27.325	8	71.50
11N/35W-34 S	EPTAM	POTATOES		87.000	1	29.00
	ETHYLENE BROMIDE EDB	POTATOES		1,762.920	1	29.50
	GUTHION	POTATOES		25.500	3	36.00
	MANEB	POTATOES		29.600	2	18.50
	META-SYSTOX-R	POTATOES		3.000	1	6.00
	NABAM	POTATOES		22.135	1	17.50
	2,4-D	CORN		30.204	1	80.50
	SPREADERS	CORN		16.890	1	80.50
		POTATOES		10.777	2	30.00
11N/35W-35 S	GUTHION	POTATOES		31.500	2	42.00
	MANEB	POTATOES		67.200	2	42.00
	PERTHANE	LETTUCE		24.000	1	12.00
	PHOSDRIN	LETTUCE		12.000	1	12.00
	2,4-D	OATS		125.000	1	125.00
11N/35W-36 S	COPPER HYDROXIDE	CELERY		45.000	1	18.00
	ENDOSULFAN	LETTUCE		15.000	2	20.00
	METHYL PARATHION	LETTUCE		5.625	3	30.00
	PARATHION	LETTUCE		11.250	3	30.00
	PERTHANE	LETTUCE		10.000	1	10.00
	PHORATE	LETTUCE		10.002	1	10.00
	TOXAPHENE	LETTUCE		80.000	2	20.00
12N/35W-25 S	PARATHION	LETTUCE		10.000	1	10.00
	PERTHANE	LETTUCE		10.000	1	10.00
	ZINEB	LETTUCE		22.500	1	10.00
	SPREADERS	LETTUCE		7.856	1	10.00
12N/35W-28 S	COPPER	CELERY		20.000	1	8.00
12N/35W-29 S	ENDOSULFAN	CELERY		17.000	1	17.00
	MANEB	CELERY		51.000	1	17.00
	METHYL PARATHION	CELERY		17.000	1	17.00
	TOK-25	CELERY		88.000	3	22.00
12N/35W-30 S	COPPER SULFA-PENTHAH	CELERY		7.600	1	5.00
	ENDOSULFAN	CAULIFLOWER		5.000	1	5.00
		CELERY		5.000	1	5.00
	PETROLEUM SOLVENTS	CELERY		2,327.500	1	5.00

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12N/35W-30 S	SYSTOX	CAULIFLOWER		2.500	1	5.00
		CELERY		2.500	1	5.00
	TOK-25	CELERY		20.000	1	5.00
	SPREADERS	CAULIFLOWER		3.928	1	5.00
	ZINC	CELERY		7.600	1	5.00
12N/35W-32 S	COPPER SULFA-PENTHAH	CELERY		23.560	2	15.50
	DBCP	CABBAGE		61.440	1	4.00
	ENDOSULFAN	CELERY		15.500	2	15.50
	SYSTOX	CELERY		7.750	2	15.50
	SPREADERS	CELERY		12.176	2	15.50
	NITROGEN ELEMENTAL	CABBAGE		460.800	2	6.00
	PHOSPHORUS PENTOXIDE	CABBAGE		460.800	2	6.00
	POTASSIUM ELEMENTAL	CABBAGE		460.800	2	6.00
	ZINC	CELERY		23.560	2	15.50
12N/35W-33 S	COPPER HYDROXIDE	CELERY		477.160	17	166.00
	ENDOSULFAN	CELERY		27.078	14	130.00
	METHYL PARATHION	CELERY		43.703	17	166.00
	PARATHION	CELERY		3.500	2	28.00
	PROMETRYNE	CELERY		22.400	1	14.00
	TOK-25	CELERY		96.000	2	24.00
	TOXAPHENE	CELERY		336.000	10	98.00
12N/35W-35 S	BALAN	LETTUCE		13.125	2	10.00
	MANEB	LETTUCE		39.270	3	17.00
	PARATHION	LETTUCE		7.000	3	14.00
	PERTHANE	LETTUCE		36.000	7	36.00
	PHOSDRIN	LETTUCE		22.000	4	22.00
	ZINEB	LETTUCE		32.730	6	32.00
	SPREADERS	LETTUCE		11.563	4	19.00
01S/16W-25 S	DDT	MISC. TIMBER TREES		53.835	1	97.00
01S/16W-88 S	ALDRIN	STRUCTURAL CONTROL	35.500			
	BAYGON		1.174			
	CALCIUM ARSENATE		.176			
	CARBARYL		2.203			
	CHLORDANE		963.839			
	COPPER NAPHTHENATE		5.400			
	DDVP		2.822			
	DIAZINON		20.825			
	DIELDRIN		8.972			
	DIPHACIN		.007			
	DURSBAN		5.626			
	ETHYLENE BROMIDE EDB		159.437			
	FUMARIN		.001			
	HEPTACHLOR		.249			
	KEPONE		.008			
	LINDANE		31.671			
	MALATHION		21.048			
	METALDEHYDE		.055			
	METHYL BROMIDE		82.000			
	PCP		6.020			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	AGR	AGR APPS	ACRES
01S/16W-88 S	PETROLEUM SOLVENTS	STRUCTURAL CONTROL	106.976			
	PIPERONYL BUTOXIDE		.035			
	PIVAL		.002			
	PYRETHRINS		3.092			
	SILICA AEROGEL		11.436			
	SODIUM FLUORIDE		1.700			
	VIKANE		60.000			
	AMMONIUM FLUOSILICAT		.564			
	METHYL SALICYLATE		1.863			
01S/16W-99 S	BETASAN	RESIDENTIAL CONTR.	.234			
	CARBARYL		404.500			
	CHLORDANE		4.880			
	DDT		180.000			
	DIAZINON		2.500			
	DIMETHOATE		2.860			
	DODINE		.325			
	DORMANT OILS		60.760			
	KARATHANE		20.609			
	KELTHANE		3.427			
	LINDANE		44.262			
	MALATHION		168.949			
	META-SYSTOX-R		23.736			
	NALED		.062			
	NAPHTHAL ACETIC ACID		3.432			
	PETROLEUM SOLVENTS		2.660			
	UREA		1.000			
01S/17W-32 S	CHLOROPICRIN	FALLOWLAND		187.500	1	.25
	TELONE	FALLOWLAND		187.500	1	.25
01S/17W-88 S	ALDRIN	STRUCTURAL CONTROL	2.000			
	BAYGON		1.977			
	BUTOXYETHANOL		.007			
	CARBARYL		1.650			
	CHLORDANE		220.859			
	DDVP		.156			
	DIAZINON		5.095			
	ETHYLENE BROMIDE EDB		1.015			
	HEPTACHLOR		.016			
	LIME SULFUR		.375			
	LINDANE		5.151			
	MALATHION		5.520			
	METHYL BROMIDE		349.000			
	PCP		.472			
	PETROLEUM SOLVENTS		2.022			
	PYRETHRINS		.029			
	VIKANE		135.400			
01S/17W-99 S	CARBARYL	RESIDENTIAL CONTR.	381.500			
	CHLORDANE		1.000			
	DDT		125.000			
	DIELDRIN		.750			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
01S/17W-99 S	KARATHANE	RESIDENTIAL CONTR.	8.000			
	LINDANE		34.200			
	MALATHION		45.125			
	META-SYSTOX-R		2.001			
	PARAQUAT		15.754			
	SODIUM ARSENITE		15.600			
01S/18W-88 S	CHLORDANE	STRUCTURAL CONTROL	262.134			
	DDT		.005			
	DDVP		4.125			
	DIAZINON		6.000			
	DIELDRIN		1.125			
	DURSBAN		6.000			
	ETHYLENE BROMIDE EDB		.743			
	LINDANE		4.275			
	PETROLEUM SOLVENTS		1.742			
01S/18W-99 S	CARBARYL	RESIDENTIAL CONTR.	225.000			
	MALATHION		42.250			
	META-SYSTOX-R		6.399			
	2,4-D		2.621			
01S/19W-35 S	DIAZINON	NURSERY PLANTINGS		2.250	1	1.00
		NURSRY STK, MOVABL		11.250	2	2.50
	PENTAC	NURSRY STK, MOVABL		1.000	2	2.50
		NURSERY PLANTINGS		1.125	1	1.00
01S/19W-88 S	CHLORDANE	STRUCTURAL CONTROL	14.540			
	DIAZINON		.091			
	LINDANE		1.600			
01S/19W-99 S	KELTHANE	RESIDENTIAL CONTR.	.664			
	META-SYSTOX-R		.746			
01S/21W-03 S	CHLORDANE	LEMONS		65.000	1	26.00
02S/15W-88 S	ALDRIN	STRUCTURAL CONTROL	14.300			
	BAYGON		3.258			
	CALCIUM ARSENATE		5.010			
	CALCIUM ARSENITE		.175			
	CARBARYL		.830			
	CHLORDANE		1,775.468			
	CHLOROPICRIN		.956			
	DDT		.008			
	DDVP		4.250			
	DIAZINON		119.672			
	DIELDRIN		48.638			
	DIPHACIN		.020			
	DURSBAN		7.181			
	ETHYLENE BROMIDE EDB		21.205			
	FUMARIN		.001			
	HEPTACHLOR		.392			
	KEPONE		.603			
	LINDANE		24.106			
	MALATHION		59.616			
	METALDEHYDE		.124			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
02S/15W-88 S	METHYL BROMIDE	STRUCTURAL CONTROL	1,797.975			
	PCP		15.406			
	PETROLEUM SOLVENTS		38.743			
	PIPERONYL BUTOXIDE		.106			
	PYRETHRINS		11.010			
	SILICA AEROGEL		18.310			
	SODIUM FLUORIDE		12.750			
	VIKANE		871.958			
	AMMONIUM FLUOSILICAT		1.140			
	METHYL SALICYLATE		7.406			
02S/15W-99 S	BAYGON	RESIDENTIAL CONTR.	.375			
	BORAX AND BORIC ACID		398.600			
	BROMACIL		2.700			
	CARBARYL		4.500			
	CHLOROBENZILATE		2.758			
	DIAZINON		2.758			
	DIELDRIN		.125			
	DIMETHOATE		.123			
	DODINE		.325			
	KELTHANE		.109			
	LINDANE		3.224			
	MALATHION		4.000			
	META-SYSTOX-R		6.502			
	NAPHTHAL ACETIC ACID		.008			
	PARAQUAT		5.250			
	SILVEX		.333			
	SODIUM ARSENITE		15.600			
	SODIUM CHLORATE		240.000			
	TOXAPHENE		6.000			
	2,4-D		6.240			
	2,4,5-T		15.000			
02S/16W-88 S	ALDRIN	STRUCTURAL CONTROL	7.680			
	BAYGON		.360			
	CHLORDANE		.500			
	DDVP		.939			
	DIAZINON		1.756			
	DURSBAN		.879			
	LINDANE		.514			
	MALATHION		.318			
02S/18W-88 S	CHLORDANE	STRUCTURAL CONTROL	19.788			
02S/18W-05 S	2,4,5-T	PASTURE, MEADOW		6.185	2	15.00
03S/14W-88 S	ALDRIN	STRUCTURAL CONTROL	266.500			
	BAYGON		25.867			
	CALCIUM ARSENATE		5.213			
	CALCIUM ARSENITE		1.422			
	CARBARYL		11.406			
	CHLORDANE		6,320.766			
	CHLOROPICRIN		87.811			
	COPPER NAPHTHENATE		2.984			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
03S/14W-88 S	DDT	STRUCTURAL CONTROL	4.320			
	DDVP		43.152			
	DELNAV		5.000			
	DIAZINON		116.125			
	DIELDRIN		36.868			
	DIPHACIN		.010			
	DURSBAN		15.191			
	ETHYLENE BROMIDE EDB		53.047			
	FUMARIN		.001			
	HEPTACHLOR		1.751			
	KEPONE		.008			
	LINDANE		39.744			
	MALATHION		180.559			
	METALDEHYDE		.062			
	METHYL BROMIDE		5,394.864			
	MGK 264		.055			
	PCP		57.495			
	PETROLEUM SOLVENTS		194.505			
	PIPERONYL BUTOXIDE		1.303			
	PYRETHRINS		9.452			
	SILICA AEROGEL		37.853			
	SODIUM FLUORIDE		5.100			
	VIKANE		2,160.380			
	AMMONIUM FLUOSILICAT		1.209			
	METHYL SALICYLATE		3.703			
03S/14W-99 S	AMITROLE	RESIDENTIAL CONTR.	8.100			
	ANSAR 170		32.000			
	ATRAZINE		36.000			
	BEP		367.200			
	BORAX AND BORIC ACID		44,076.200			
	BROMACIL		50.058			
	BROMOXYNIL		5.280			
	CARBARYL		22.000			
	CHLORDANE		16.204			
	DIMETHOATE		11.708			
	HYVAR		5.000			
	KELTHANE		1,018.893			
	MALATHION		3,844.544			
	META-SYSTOX-R		194.004			
	MORESTAN		22.500			
	NAPHTHAL ACETIC ACID		.080			
	PARAQUAT		2.000			
	PCP		2.000			
	PENTAC		137.250			
	SODIUM ARSENITE		15.600			
	SODIUM CHLORATE		15,633.500			
	SUMMER OILS		1,650.000			
	TOXAPHENE		11.781			
	2,4-D		6.000			

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CUMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
03S/15W-88 S	BAYGON	STRUCTURAL CONTROL	3.380			
	CALCIUM ARSENATE		.156			
	CALCIUM ARSENITE		.164			
	CARBARYL		1.000			
	CHLORDANE		1,386.217			
	CHLOROPICRIN		142.620			
	DDT		.944			
	DDVP		6.236			
	DIAZINON		30.903			
	DIELDRIN		.028			
	DURSBAN		4.673			
	ETHYLENE BROMIDE EDB		14.831			
	HEPTACHLOR		1.140			
	LINDANE		12.013			
	MALATHION		137.228			
	METHYL BROMIDE		1,833.055			
	PCP		28.546			
	PETROLEUM SOLVENTS		95.028			
	PIPERONYL BUTOXIDE		.104			
	PYRETHRINS		.284			
	SILICA AEROGEL		4.956			
	SODIUM FLUORIDE		5.100			
	VIKANE		1,478.190			
	AMMONIUM FLUOSILICAT		.244			
03S/15W-99 S	BORAX AND BORIC ACID	RESIDENTIAL CONTR.	15,615.300			
	CARBARYL		.500			
	DIMETHOATE		.125			
	KELTHANE		.263			
	MALATHION		12.500			
	NAPHTHAL ACETIC ACID		.080			
	SODIUM CHLORATE		6,110.000			
	2,4-D		15.000			
04S/12W-88 S	ALDRIN	STRUCTURAL CONTROL	3,866.850			
	BAYGON		9.159			
	CALCIUM ARSENATE		.441			
	CALCIUM ARSENITE		.154			
	CARBARYL		.374			
	CHLORDANE		2,982.514			
	CHLOROPICRIN		49.428			
	CHLOROTHENE, QCK CLR		7.381			
	COPPER NAPHTHENATE		1.604			
	CYANOGAS		.118			
	DDT		6.220			
	DDVP		9.922			
	DIAZINON		48.384			
	DIELDRIN		70.670			
	DIPHACIN		.016			
	DURSBAN		11.873			
	ETHYLENE BROMIDE EDB		124.361			

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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04S/12W-88 S	ETHYLENE DICHLORIDE	STRUCTURAL CONTROL	2.594			
	FUMARIN		.003			
	HEPTACHLOR		.819			
	KEPONE		.015			
	LINDANE		81.857			
	MALATHION		143.166			
	METALDEHYDE		.117			
	METHYL BROMIDE		13,749.155			
	PARAC, PARA DICHLORO		.340			
	PCP		21.477			
	PDB		.164			
	PETROLEUM SOLVENTS		194.009			
	PINE OIL		4.293			
	PIPERONYL BUTOXIDE		.781			
	PIVAL		.018			
	PYRETHRINS		12.303			
	SILICA AEROGEL		37.458			
	SODIUM FLUORIDE		8.500			
	VIKANE		3,581.475			
	ORTHO DICHLOROBENZEN		6.214			
	AMMONIUM FLUOSILICAT		1.100			
	METHYL SALICYLATE		6.797			
04S/12W-99 S	AMITROLE	RESIDENTIAL CONTR.	18.000			
	ANSAR 170		56.000			
	ATRAZINE		56.400			
	BORAX AND BORIC ACID		31,946.540			
	BROMACIL		42.474			
	CARBARYL		7.600			
	CHLORDANE		4.466			
	CHLOROBENZILATE		8.237			
	DDVP		16.000			
	DIAZINON		10.737			
	DIMETHOATE		160.834			
	KELTHANE		.877			
	LINURON		7.500			
	MALATHION		4.923			
	META-SYSTOX-R		1.922			
	NALED		766.000			
	NAPHTHAL ACETIC ACID		.578			
	PANOGEN 15		.072			
	PARAQUAT		20.000			
	SIMAZINE		129.600			
	SODIUM ARSENITE		30.000			
	SODIUM CHLORATE		12,946.000			
	2,4-D		113.200			
04S/13W-88 S	ALDRIN	STRUCTURAL CONTROL	158.000			
	BAYGON		.023			
	CALCIUM ARSENATE		.033			
	CHLORDANE		213.363			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04S/13W-88 S	CHLOROPICRIN	STRUCTURAL CONTROL	.270			
	DDT		.500			
	DDVP		38.956			
	DELNAV		24.000			
	DIAZINON		5.023			
	DIELDRIN		1.501			
	DURSBAN		42.743			
	HEPTACHLOR		.008			
	LINDANE		.619			
	MALATHION		1.250			
	METHYL BROMIDE		60.000			
	PCP		.370			
	PETROLEUM SOLVENTS		.499			
	PIPERONYL BUTOXIDE		.438			
	PYRETHRINS		1.155			
	SODIUM FLUORIDE		5.100			
	VIKANE		545.280			
04S/13W-99 S	AMITROLE	RESIDENTIAL CONTR.	105.300			
	ANSAR 138		34.720			
	ANSAR 170		133.080			
	ATRAZINE		16.000			
	BORAX AND BORIC ACID		11,577.400			
	BROMACIL		248.084			
	BROMOXYNIL		18.000			
	DALAPON		17.000			
	LINURON		130.000			
	MONURON		56.000			
	PARAQUAT		60.000			
	SODIUM CHLORATE		3,985.000			
	TORDON		18.000			
	2,4-D		35.800			
04S/14W-08 S	PARATHION	STRAWBERRIES		3.040	1	8.00
04S/14W-88 S	ALDRIN	STRUCTURAL CONTROL	279.000			
	BAYGON		.020			
	CALCIUM ARSENATE		.482			
	CALCIUM ARSENITE		.044			
	CHLORDANE		286.258			
	CHLOROPICRIN		.736			
	DDVP		19.722			
	DELNAV		7.000			
	DIAZINON		7.729			
	DIELDRIN		3.403			
	DURSBAN		18.470			
	ETHYLENE BROMIDE EDB		3.752			
	FUMARIN		.001			
	LINDANE		1.638			
	MALATHION		4.987			
	METHYL BROMIDE		454.660			
	PCP		.036			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
04S/14W-88 S	PETROLEUM SOLVENTS	STRUCTURAL CONTROL	11.931			
	PIPERONYL BUTOXIDE		.202			
	PYRETHRINS		.352			
	SILICA AEROGEL		2.954			
	AMMONIUM FLUOSILICAT		.146			
04S/14W-99 S	ANSAR 170	RESIDENTIAL CONTR.	64.000			
	BORAX AND BORIC ACID		233.600			
	BROMACIL		196.698			
	BROMOXYNIL		13.280			
	CARBARYL		3.500			
	CHLORDANE		5.280			
	DIAZINON		1.000			
	PETROLEUM SOLVENTS		24.938			
	SODIUM ARSENITE		15.600			
	SODIUM CHLORATE		80.000			
04S/15W-88 S	ALDRIN	STRUCTURAL CONTROL	131.010			
	CHLORDANE		180.325			
	DDT		2.000			
	DDVP		1.820			
	DIAZINON		1.023			
	DURSBAN		1.352			
	LINDANE		.434			
	MALATHION		10.000			
05S/11W-07 S	METHYL BROMIDE	TOMATOES		2,975.000	2	17.50
	METHYL ISOTHIOCYANAT	TOMATOES		8.919	1	13.00
05S/11W-18 S	METHYL BROMIDE	TOMATOES		1,462.500	1	6.50
05S/11W-28 S	DDT	PEPPERS, BELL		18.000	1	18.00
	DIMETHOATE	BEANS, GREEN LIMA		95.114	1	190.00
	PARATHION	CAULIFLOWER		3.500	1	7.00
	PHOSDRIN	PEPPERS, BELL		4.750	1	19.00
	TOXAPHENE	PEPPERS, BELL		36.000	1	18.00
	SPREADERS	BEANS, GREEN LIMA		7.099	1	190.00
05S/11W-33 S	DDT	PEPPERS, BELL		18.000	1	18.00
	TOXAPHENE	PEPPERS, BELL		36.000	1	18.00
05S/11W-88 S	ALDRIN	STRUCTURAL CONTROL	1,689.000			
	BAYGON		.883			
	CALCIUM ARSENATE		.089			
	CARBARYL		12.175			
	CHLORDANE		425.850			
	CHLOROPICRIN		.407			
	DDVP		20.391			
	DIAZINON		29.679			
	DIELDRIN		264.531			
	DIPHACIN		.003			
	DURSBAN		24.271			
	ETHYLENE BROMIDE EDB		2.049			
	FUMARIN		.003			
	HEPTACHLOR		.012			
	KEPONE		.002			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
05S/11W-88 S	LINDANE	STRUCTURAL CONTROL	5.695			
	MALATHION		17.341			
	METALDEHYDE		.055			
	METHYL BROMIDE		279.000			
	PCP		.207			
	PETROLEUM SOLVENTS		20.628			
	PIPERONYL BUTOXIDE		.122			
	PIVAL		.014			
	PYRETHRINS		3.476			
	SODIUM FLUORIDE		3.300			
	TOXAPHENE		3.200			
	VIKANE		78.210			
	WARFARIN		.001			
	AMMONIUM FLUOSILICAT		.500			
	METHYL SALICYLATE		1.863			
05S/11W-99 S	ALDRIN	RESIDENTIAL CONTR.	4.000			
	BORAX AND BORIC ACID		10,925.160			
	BROMACIL		1.490			
	CARBARYL		10.000			
	CHLORDANE		23.125			
	DDVP		.096			
	DIAZINON		15.627			
	DIELDRIN		.585			
	DIMETHOATE		2.000			
	LINDANE		12.760			
	MALATHION		8.013			
	META-SYSTOX-R		3.000			
	MORESTAN		1.000			
	NALED		17.314			
	NAPHTHAL ACETIC ACID		2.088			
	PETROLEUM SOLVENTS		254.163			
	PYRETHRINS		.250			
	SODIUM CHLORATE		4,018.000			
	SUGAR		2.184			
05S/13W-88 S	ALDRIN	STRUCTURAL CONTROL	94.000			
	BAYGON		2.264			
	CALCIUM ARSENATE		.122			
	CARBARYL		.305			
	CHLORDANE		348.157			
	CHLOROPICRIN		2.662			
	COPPER NAPHTHENATE		1.528			
	DDT		.500			
	DDVP		2.433			
	DIAZINON		17.986			
	DIELDRIN		29.518			
	DIPHACIN		.010			
	DURSBAN		4.254			
	ETHYLENE BROMIDE EDB		4.387			
	FUMARIN		.001			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
05S/13W-88 S	HEPTACHLOR	STRUCTURAL CONTROL	.003			
	KEPONE		.009			
	LINDANE		37.342			
	MALATHION		28.832			
	METALDEHYDE		.062			
	METHYL BROMIDE		715.550			
	PCP		.835			
	PETROLEUM SOLVENTS		36.917			
	PIPERONYL BUTOXIDE		.403			
	PYRETHRINS		5.875			
	SILICA AEROGEL		.762			
	SODIUM FLUORIDE		12.750			
	VIKANE		37.620			
	AMMONIUM FLUOSILICAT		.038			
	METHYL SALICYLATE		3.703			
05S/13W-99 S	ATRAZINE	RESIDENTIAL CONTR.	12.000			
	CARBARYL		3.750			
	CHLOROBENZILATE		2.249			
	DIAZINON		2.124			
	DIMETHOATE		.459			
	FENAC		52.500			
	PANOGEN 15		.040			
	SODIUM ARSENITE		3,600.000			
	SODIUM CHLORATE		375.000			
	UROX		230.000			
05S/14W-09 S	PARATHION	NURSERY PLANTINGS		13.502	2	24.00
	SYSTOX	NURSERY PLANTINGS		10.877	4	41.00
05S/14W-17 S	DDT	NURSERY PLANTINGS		4.500	1	3.00
	PARATHION	NURSERY PLANTINGS		1.800	1	3.00
	SULFUR	NURSERY PLANTINGS		9.000	1	3.00
05S/14W-88 S	BAYGON	STRUCTURAL CONTROL	10.421			
	CALCIUM ARSENATE		.034			
	CARBARYL		4.682			
	CHLORDANE		683.851			
	CHLOROPICRIN		.388			
	COPPER NAPHTHENATE		.024			
	DDT		2.168			
	DDVP		1.692			
	DIAZINON		34.526			
	DIELDRIN		24.325			
	DIPHACIN		.016			
	DURSBAN		1.534			
	ETHYLENE BROMIDE EDB		52.106			
	FUMARIN		.001			
	HEPTACHLOR		.034			
	KEPONE		.022			
	LINDANE		19.672			
	MALATHION		76.097			
	METALDEHYDE		.103			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
05S/14W-88 S	METHYL BROMIDE	STRUCTURAL CONTROL	38.000			
	PCP		1.119			
	PETROLEUM SOLVENTS		33.719			
	PIPERONYL BUTOXIDE		.166			
	PYRETHRINS		4.200			
	SILICA AEROGEL		.095			
	VIKANE		95.040			
	AMMONIUM FLUOSILICAT		.005			
	METHYL SALICYLATE		3.093			
05S/14W-99 S	CARBARYL	RESIDENTIAL CONTR.	3.750			
	CHLORDANE		27.712			
	DIAZINON		3.500			
	DIMETHOATE		.334			
	KELTHANE		.915			
	MALATHION		15.785			
	NAPHTHAL ACETIC ACID		.080			
05S/15W-88 S	BUTOXYETHANOL	STRUCTURAL CONTROL	.056			
	CHLORDANE		.812			
	DIELDRIN		3.070			
	DURSBAN		.008			
	LINDANE		.400			
	PCP		.059			
06S/10W-36 S	2,4-D	NOT REPORTED		7.995	1	10.66
06S/10W-88 S	ALDRIN	STRUCTURAL CONTROL	4.567			
	AVITROL 200		.110			
	BAYGON		.208			
	CARBARYL		13.051			
	CHLORDANE		471.006			
	CHLOROPICRIN		.109			
	COPPER NAPHTHENATE		1.600			
	DDT		4.548			
	DDVP		37.298			
	DIAZINON		47.305			
	DIELDRIN		212.893			
	DIPHACIN		.010			
	DURSBAN		38.375			
	ETHYLENE BROMIDE EDB		239.149			
	FUMARIN		.002			
	LINDANE		11.797			
	MALATHION		79.688			
	METHYL BROMIDE		240.900			
	PETROLEUM SOLVENTS		184.258			
	PIVAL		.028			
	PYRETHRINS		3.260			
	SODIUM FLUORIDE		3.390			
	TOXAPHENE		1.600			
	VIKANE		159.100			
06S/10W-99 S	ALDRIN	RESIDENTIAL CONTR.	16.000			
	ANSAR 170		48.000			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
06S/10W-99 S	ATRAZINE	RESIDENTIAL CONTR.	6.400			
	BARBAN		.095			
	BORAX AND BORIC ACID		4,898.660			
	BROMACIL		6.000			
	BROMOXYNIL		15.840			
	CARBARYL		25.563			
	CHLORDANE		70.987			
	CHLOROBENZILATE		.285			
	DDVP		.805			
	DIAZINON		26.182			
	DIELDRIN		5.529			
	DIMETHOATE		.965			
	KELTHANE		6.219			
	LINDANE		29.160			
	MALATHION		75.270			
	METALDEHYDE		2.500			
	META-SYSTOX-R		7.675			
	NAPHTHAL ACETIC ACID		3.410			
	PETROLEUM SOLVENTS		2,157.925			
	PYRETHRINS		.290			
	SODIUM CHLORATE		2,788.000			
	PURAT SPRAY		.048			
	SPREADERS		3.603			
06S/11W-88 S	ALDRIN	STRUCTURAL CONTROL	40.000			
	BAYGON		.194			
	CARBARYL		8.713			
	CHLORDANE		786.325			
	DDT		1.000			
	DDVP		31.628			
	DIAZINON		17.571			
	DIELDRIN		145.682			
	DIPHACIN		.015			
	DURSBAN		34.796			
	FUMARIN		.003			
	LINDANE		6.083			
	MALATHION		8.372			
	METHYL BROMIDE		125.000			
	PETROLEUM SOLVENTS		16.478			
	PIVAL		.007			
	PYRETHRINS		.508			
	SODIUM FLUORIDE		10.790			
	TOXAPHENE		1.000			
	VIKANE		21.780			
	WARFARIN		.002			
06S/11W-99 S	AMITROLE	RESIDENTIAL CONTR.	2.700			
	BARBAN		.095			
	BORAX AND BORIC ACID		803.000			
	BROMACIL		4.000			
	CARBARYL		16.500			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
06S/11W-99 S	CHLORDANE	RESIDENTIAL CONTR.	37.962			
	CHLOROBENZILATE		.285			
	DIAZINON		22.830			
	DIELDRIN		.580			
	LINDANE		27.060			
	MALATHION		3.065			
	NAPHTHAL ACETIC ACID		.032			
	PYRETHRINS		.290			
	SODIUM CHLORATE		965.000			
	PURAT SPRAY		.080			
	SPREADERS		.747			
07S/08W-88 S	CHLORDANE	STRUCTURAL CONTROL	27.880			
	DDVP		.031			
	DURSBAN		.031			
	LINDANE		1.566			
	MALATHION		1.250			
07S/09W-88 S	ALDRIN	STRUCTURAL CONTROL	41.220			
	BAYGON		.053			
	CARBARYL		12.302			
	CHLORDANE		294.905			
	COPPER NAPHTHENATE		.447			
	DDT		1.120			
	DDVP		24.314			
	DIAZINON		20.386			
	DIELDRIN		117.196			
	DIMETHOATE		.084			
	DIPHACIN		.010			
	DURSBAN		20.219			
	ETHYLENE BROMIDE EDB		34.700			
	FUMARIN		.001			
	HEPTACHLOR		.018			
	LINDANE		4.553			
	MALATHION		3.424			
	METHYL BROMIDE		34.913			
	PCP		.340			
	PETROLEUM SOLVENTS		17.550			
	PIVAL		.007			
	PYRETHRINS		1.457			
	SODIUM FLUORIDE		.850			
	WARFARIN		.001			
07S/09W-99 S	ALDRIN	RESIDENTIAL CONTR.	428.000			
	BORAX AND BORIC ACID		17,315.800			
	CARBARYL		11.750			
	CHLORDANE		57.614			
	DDVP		.805			
	DIAZINON		19.319			
	DIELDRIN		2.699			
	KELTHANE		3.000			
	LINDANE		24.320			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
07S/09W-99 S	MALATHION	RESIDENTIAL CONTR.	3.755			
	META-SYSTOX-R		2.558			
	NAPHTHAL ACETIC ACID		.096			
	PETROLEUM SOLVENTS		2,571.954			
	PYRETHRINS		.135			
	SODIUM CHLORATE		7,015.000			
08S/07W-88 S	ALDRIN	STRUCTURAL CONTROL	140.000			
	BAYGON		.152			
	CARBARYL		2.050			
	CHLORDANE		56.737			
	DDT		1.000			
	DDVP		18.198			
	DIAZINON		4.278			
	DIELDRIN		76.577			
	DURSBAN		16.750			
	ETHYLENE BROMIDE EDB		19.037			
	LINDANE		1.796			
	MALATHION		1.005			
	PIVAL		.001			
	PYRETHRINS		.015			
08S/07W-99 S	ALDRIN	RESIDENTIAL CONTR.	188.000			
	BORAX AND BORIC ACID		489.100			
	CARBARYL		.500			
	CHLORDANE		8.275			
	DDVP		.048			
	DIAZINON		1.682			
	DIELDRIN		.102			
	LINDANE		9.048			
	PYRETHRINS		.030			
	SODIUM CHLORATE		167.500			
08S/08W-14 S	BTB	CABBAGE		4.740	3	10.00
	BYGON	LETTUCE		1.500	2	6.00
	DDT	PEPPERS, BELL		25.498	4	36.00
	DDVP	TOMATOES		80.000	1	40.00
	DIMETHOATE	PEPPERS, BELL		6.008	1	9.00
	DOWSPRAY	TOMATOES		20.024	1	40.00
	ENDOSULFAN	PEPPERS, BELL		14.400	1	9.00
	GUTHION	TOMATOES		60.000	1	40.00
	KARATHANE	SQUASH		6.000	1	15.00
	LINDANE	SQUASH		4.500	1	15.00
	MALATHION	CAULIFLOWER		72.000	1	36.00
	METHYL BROMIDE	CAULIFLOWER		16.200	1	36.00
	NALED	CABBAGE		3.000	2	6.00
	PHOSDRIN	LETTUCE		7.000	3	8.00
	SYSTOX	CABBAGE		8.000	5	16.00
	[illegible]	CAULIFLOWER		18.908	2	45.00
	[illegible]	PEPPERS, BELL		10.502	3	27.00
	TOXAPHENE	PEPPERS, BELL		20.999	2	18.00
	[illegible]	TOMATOES		160.000	1	40.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
06S/08W-22 S	SODIUM ARSENITE	WEED		257.369	1	.33
08S/08W-88 S	ALDRIN	STRUCTURAL CONTROL	440.000			
	CARBARYL		4.000			
	CHLORDANE		74.320			
	DDT		2.000			
	DDVP		8.064			
	DIAZINON		.140			
	DIELDRIN		66.000			
	DURSBAN		7.980			
	LINDANE		1.862			
	MALATHION		1.250			
08S/08W-99 S	ATRAZINE	RESIDENTIAL CONTR.	9.600			
	BORAX AND BORIC ACID		585.000			
	CHLORDANE		24.000			
	KELTHANE		1.480			
	LINDANE		1.000			
	MALATHION		2.000			
	PETROLEUM SOLVENTS		598.500			
	SODIUM CHLORATE		225.000			
09S/07W-14 S	CHLOROPICRIN	TOMATOES		3,486.162	2	98.50
		NOT REPORTED		884.813	1	25.00
	DBCP	TOMATOES		696.600	1	27.00
	D-D MIXTURE	TOMATOES		309.600	1	12.00
	DDT	CABBAGE		40.000	1	40.00
		TOMATOES		32.500	1	65.00
	MALATHION	WEED		28.500	1	100.00
	METHYL BROMIDE	TOMATOES		14,370.412	2	98.50
		NOT REPORTED		3,647.313	1	25.00
	SYSTOX	CABBAGE		24.340	1	40.00
	TOXAPHENE	CABBAGE		80.000	1	40.00
		TOMATOES		65.000	1	65.00
11S/01E-88 S	CHLORDANE	STRUCTURAL CONTROL	9.626			
	PCP		.046			
11S/05W-04 S	DBCP	FALLOWLAND		206.400	1	16.00
	DDT	CABBAGE		180.000	3	120.00
		TOMATOES		75.000	1	50.00
	DIMETHOATE	CABBAGE		60.072	3	120.00
	DI-SYSTON	CABBAGE		15.600	1	16.00
	FOLCID	TOMATOES		75.000	1	50.00
	GUTHION	TOMATOES		37.500	1	50.00
	NALED	TOMATOES		50.000	1	50.00
	TOXAPHENE	CABBAGE		360.000	3	120.00
		TOMATOES		150.000	1	50.00
11S/05W-05 S	CHLOROPICRIN	FALLOWLAND		11,100.000	1	37.00
	DBCP	FALLOWLAND		361.200	2	26.00
		TOMATOES		490.200	1	38.00
	DDT	TOMATOES		48.000	1	24.00
	DI-SYSTON	CABBAGE		66.300	2	68.00
	GUTHION	TOMATOES		167.272	1	24.00

COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
11S/05W-05 S	METHYL BROMIDE	FALLOWLAND		11,100.000	1	37.00
	TOXAPHENE	TOMATOES		96.000	1	24.00
11S/05W-88 S	BAYGON	STRUCTURAL CONTROL	1.585			
	CARBARYL		21.164			
	CHLORDANE		1,313.775			
	CYANOGAS		1.302			
	DDVP		2.200			
	DELNAV		.367			
	DIAZINON		20.782			
	DIELDRIN		60.377			
	DURSBAN		1.050			
	LINDANE		1.700			
	MALATHION		8.250			
	METALDEHYDE		.481			
	PIVAL		.003			
	VIKANE		125.000			
	WARFARIN		.252			
11S/05W-99 S	CARBARYL	RESIDENTIAL CONTR.	2.250			
	CHLORDANE		126.600			
	DIAZINON		2.135			
	DIELDRIN		2.250			
	KELTHANE		.661			
	MALATHION		31.690			
	PCP		.500			
	PENTAC		1.000			
12S/04W-06 S	DDT	TOMATOES		12.219	2	6.50
	GUTHION	TOMATOES		7.913	1	6.00
	TELONE	TOMATOES		3,158.100	5	15.95
	TOXAPHENE	TOMATOES		24.438	2	6.50
12S/04W-07 S	DBCP	SQUASH		43.000	1	2.50
	DDT	NURSERY PLANTINGS		4.510	2	3.50
	GUTHION	NURSERY PLANTINGS		11.247	1	2.50
	TELONE	TOMATOES		4,059.000	2	20.50
	TOXAPHENE	NURSERY PLANTINGS		10.203	2	3.50
12S/04W-08 S	TELONE	TOMATOES		1,782.000	2	9.00
12S/04W-17 S	CHLOROPICRIN	FALLOWLAND		113.652	1	1.20
	D-D MIXTURE	TOMATOES		6,771.600	1	36.00
	METHYL BROMIDE	FALLOWLAND		230.748	1	1.20
	TELONE	TOMATOES		7,326.000	3	37.00
12S/04W-20 S	CHLOROPICRIN	FALLOWLAND		15,000.000	1	40.00
	DDT	TOMATOES		38.000	2	40.00
	METHYL BROMIDE	FALLOWLAND		15,000.000	1	40.00
	TELONE	TOMATOES		8,217.000	2	41.50
	TOXAPHENE	TOMATOES		42.720	2	40.00
12S/04W-21 S	CHLOROPICRIN	NURSERY PLANTINGS		77.864	1	2.20
	DDT	TOMATOES		25.000	1	25.00
	METHYL BROMIDE	NURSERY PLANTINGS		320.964	1	2.20
	TELONE	TOMATOES		990.000	1	5.00
	TOXAPHENE	TOMATOES		50.000	1	25.00

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LOCATION	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
12S/04W-28 S	CHLOROPICRIN	NURSERY PLANTINGS		174.240	2	1.32
	D-D MIXTURE	SQUASH		1,287.000	1	6.50
		TOMATOES		3,564.000	1	20.00
	METHYL BROMIDE	NURSERY PLANTINGS		353.760	2	1.32
12S/04W-33 S	CHLOROPICRIN	NURSERY PLANTINGS		319.800	1	1.30
	TELONE	NURSERY PLANTINGS		213.200	1	1.30
12S/04W-34 S	CHLOROPICRIN	NURSERY PLANTINGS		2,007.027	1	20.90
	METHYL BROMIDE	NURSERY PLANTINGS		4,074.873	1	20.90
12S/04W-88 S	ALDRIN	STRUCTURAL CONTROL	12.838			
	BAYGON		.176			
	CARBARYL		1.120			
	CHLORDANE		463.520			
	CYANOGAS		.798			
	DDVP		.450			
	DELNAV		.189			
	DIAZINON		4.971			
	DIELDRIN		37.397			
	DURSBAN		.445			
	MALATHION		4.875			
	METALDEHYDE		.233			
	WARFARIN		.126			
12S/05W-88 S	VIKANE	STRUCTURAL CONTROL	17.000			
12S/05W-99 S	CHLORDANE	RESIDENTIAL CONTR.	2.400			
	CHLOROBENZILATE		2.750			
	COPPER SULFA-PENTHAH		.128			
	MALATHION		1.000			
	PETROLEUM SOLVENTS		154.613			
	ROTENONE		.613			
	IRON		.040			
	MANGANESE		.072			
	NITROGEN ELEMENTAL		1.080			
	PHOSPHORUS PENTOXIDE		.480			
	MAGNESUIM		.128			
	ZINC		.288			
13S/04W-03 S	CHLOROPICRIN	NURSERY PLANTINGS		5,110.269	2	34.90
	DIMETHOATE	NURSERY PLANTINGS		3.423	4	7.00
	DI-SYSTON	NURSERY PLANTINGS		2.174	1	5.00
	METHYL BROMIDE	NURSERY PLANTINGS		114.436	1	.40
	PANOGEN 15	NURSERY PLANTINGS		.024	1	2.00
	TELONE	NURSERY PLANTINGS		2,863.155	1	34.50
		TOMATOES		18,958.500	2	95.75
	ZINEB	NURSERY PLANTINGS		15.000	4	10.00
13S/04W-04 S	CHLOROPICRIN	NURSERY PLANTINGS		301.620	2	1.00
	D-D MIXTURE	NURSERY PLANTINGS		201.080	2	1.00
	DDT	NURSERY PLANTINGS		19.384	14	23.33
	DIMETHOATE	NURSERY PLANTINGS		286.242	19	36.50
	DI-SYSTON	NURSERY PLANTINGS		14.834	8	23.00
	KELTHANE	NURSERY PLANTINGS		4.084	5	14.00
	PANOGEN 15	NURSERY PLANTINGS		.056	2	5.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
13S/04W-04 S	PARATHION	NURSERY PLANTINGS		.011	1	2.00
	PETROLEUM SOLVENTS	NURSERY PLANTINGS		2.367	1	2.00
	TOXAPHENE	NURSERY PLANTINGS		44.594	14	23.33
	XYLENE	NURSERY PLANTINGS		13.764	5	14.00
	ZINEB	NURSERY PLANTINGS		62.625	17	41.75
13S/04W-09 S	CHLOROPICRIN	NURSERY PLANTINGS		1,464.900	1	10.00
	DDT	NURSERY PLANTINGS		8.160	10	14.25
	DIMETHOATE	NURSERY PLANTINGS		136.740	13	17.75
	DI-SYSTON	NURSERY PLANTINGS		2.833	4	6.50
	KELTHANE	NURSERY PLANTINGS		.882	3	3.00
	PANOGEN 15	NURSERY PLANTINGS		.008	1	.75
	TELONE	NURSERY PLANTINGS		1,126.900	2	10.75
	TOXAPHENE	NURSERY PLANTINGS		28.387	10	14.25
	XYLENE	NURSERY PLANTINGS		2.952	3	3.00
	ZINEB	NURSERY PLANTINGS		29.250	10	27.00
	2,4-D	BARLEY		243.000	1	300.00
13S/04W-10 S	D-D MIXTURE	TOMATOES		185.625	1	.75
	DDT	NURSERY PLANTINGS		29.482	9	24.50
	DIMETHOATE	NURSERY PLANTINGS		13.587	9	27.00
	DI-SYSTON	NURSERY PLANTINGS		1.087	1	2.50
	KELTHANE	NURSERY PLANTINGS		3.747	4	12.00
	LINDANE	NURSERY PLANTINGS		2.600	1	13.00
	PANOGEN 15	NURSERY PLANTINGS		.064	2	6.00
	PARATHION	NURSERY PLANTINGS		1.500	1	3.00
	TOXAPHENE	NURSERY PLANTINGS		63.463	9	24.50
	XYLENE	NURSERY PLANTINGS		11.804	4	12.00
	ZINEB	NURSERY PLANTINGS		35.250	6	30.00
	2,4-D	BARLEY		7.500	1	10.00
13S/04W-15 S	CARBARYL	CORN		6.000	2	8.00
	CHLOROBENZILATE	ORANGES		19.100	2	12.50
	CHLOROPICRIN	NURSERY PLANTINGS		18,261.539	4	66.16
	D-D MIXTURE	NURSERY PLANTINGS		12,125.000	2	65.75
	DIMETHOATE	NURSERY PLANTINGS		1.003	1	2.00
		ORNAMENTAL PLANTS		.375	1	8.00
	KELTHANE	CORN		4.500	2	6.50
		NURSERY PLANTINGS		86.948	7	27.25
		ORNAMENTAL PLANTS		315.199	4	20.00
	MALATHION	NURSERY PLANTINGS		9.172	2	14.00
		ORNAMENTAL PLANTS		1,123.425	4	20.00
	MANEB	CORN		26.180	2	6.00
		NURSERY PLANTINGS		7.700	1	4.00
	META-SYSTOX-R	CORN		15.286	5	16.50
		NURSERY PLANTINGS		242.533	8	34.00
		ORNAMENTAL PLANTS		14.096	4	20.00
	METHYL BROMIDE	NURSERY PLANTINGS		78.692	1	.27
	NABAM	NURSERY PLANTINGS		4.180	3	10.00
	PANOGEN 15	NURSERY PLANTINGS		.011	1	4.00
	PENTAC	NURSERY PLANTINGS		.500	1	4.00
		ORNAMENTAL PLANTS		5.000	4	20.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
13S/04W-15 S	PETROLEUM SOLVENTS	ORANGES		593.513	2	12.50
	TELONE	NURSERY PLANTINGS		23.520	1	.14
	ZINEB	CORN		.540	2	6.00
	DELNAV	NURSERY PLANTINGS		3.300	2	6.00
13S/04W-21 S	CHLOROBENZILATE	LEMONS		15.504	3	13.53
		ORANGES		.750	1	.75
	PETROLEUM SOLVENTS	LEMONS		1,748.006	3	13.53
		ORANGES		12.968	1	.75
13S/04W-22 S	CHLOROBENZILATE	LEMONS		5.040	1	12.60
		ORANGES		1.710	1	.90
	CHLOROPICRIN	NURSERY PLANTINGS		635.925	4	2.68
	D-D MIXTURE	NURSERY PLANTINGS		375.120	3	2.18
	DIMETHOATE	NURSERY PLANTINGS		1.312	4	2.50
	PETROLEUM SOLVENTS	LEMONS		536.256	1	12.60
		ORANGES		59.850	1	.90
	TELONE	NURSERY PLANTINGS		41.495	1	.50
	ZINEB	NURSERY PLANTINGS		3.938	4	2.50
13S/04W-23 S	CAPTAN	NURSERY PLANTINGS		1.000	1	2.00
	CHLOROPICRIN	NURSERY PLANTINGS		76.175	1	.52
	DDT	NURSERY PLANTINGS		1.964	3	4.50
	DIMETHOATE	NURSERY PLANTINGS		6.873	14	14.42
	DI-SYSTON	NURSERY PLANTINGS		2.625	1	7.00
	KELTHANE	NURSERY PLANTINGS		3.545	11	13.25
		NURSRY STK, MOVABL		.294	1	1.00
	PANOGEN 15	NURSERY PLANTINGS		.103	1	.75
	PARATHION	NURSERY PLANTINGS		3.500	1	7.00
		NURSRY STK, MOVABL		.495	1	1.00
	PETROLEUM SOLVENTS	NURSRY STK, MOVABL		1.184	1	1.00
	TELONE	NURSERY PLANTINGS		43.155	1	.52
	TOXAPHENE	NURSERY PLANTINGS		6.059	3	4.50
	XYLENE	NURSERY PLANTINGS		9.730	9	10.25
		NURSRY STK, MOVABL		.984	1	1.00
	ZINEB	NURSERY PLANTINGS		9.815	6	8.25
	SPREADERS	NURSERY PLANTINGS		.431	1	2.00
13S/04W-88 S	ALDRIN	STRUCTURAL CONTROL	9.716			
	BAYGON		.176			
	CALCIUM ARSENATE		.099			
	CARBARYL		1.720			
	CHLORDANE		1,385.393			
	CYANOGAS		.777			
	DDVP		.250			
	DELNAV		.189			
	DIAZINON		4.586			
	DIELDRIN		30.722			
	DURSBAN		1.465			
	MALATHION		225.968			
	METALDEHYDE		.178			
	METHYL BROMIDE		40.000			
	VIKANE		105.000			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
13S/04W-88 S	WARFARIN	STRUCTURAL CONTROL	.101			
13S/04W-99 S	DALAPON	RESIDENTIAL CONTR.	3.400			
14S/04W-13 S	DDT	TOMATOES		2.000	1	2.00
	TOXAPHENE	TOMATOES		4.000	1	2.00
14S/04W-88 S	ALDRIN	STRUCTURAL CONTROL	21.028			
	BAYGON		.216			
	CARBARYL		4.820			
	CHLORDANE		466.024			
	CYANOGAS		1.113			
	DDVP		.450			
	DELNAV		.189			
	DIAZINON		5.293			
	DIELDRIN		30.197			
	DURSBAN		.445			
	LINDANE		.125			
	MALATHION		7.375			
	METALDEHYDE		.233			
	METHYL BROMIDE		30.000			
	VIKANE		99.550			
	WARFARIN		.126			
14S/04W-99 S	CARBARYL	RESIDENTIAL CONTR.	2.000			
	CHLORDANE		.452			
	DIAZINON		4.590			
	KELTHANE		1.126			
	PCP		.500			
	PENTAC		.500			
15S/03W-88 S	BAYGON	STRUCTURAL CONTROL	10.584			
	CARBARYL		9.080			
	CHLORDANE		335.501			
	DIAZINON		.160			
	DURSBAN		1.000			
	MALATHION		37.663			
	PIVAL		.004			
	PYRETHRINS		.040			
15S/03W-99 S	CHLORDANE	RESIDENTIAL CONTR.	3.042			
	DIAZINON		1.285			
15S/04W-88 S	ALDRIN	STRUCTURAL CONTROL	45.512			
	BAYGON		.582			
	CALCIUM ARSENATE		.471			
	CARBARYL		18.550			
	CHLORDANE		2,653.708			
	CYANOGAS		5.565			
	DDT		.024			
	DDVP		3.200			
	DELNAV		3.302			
	DIAZINON		28.694			
	DIELDRIN		146.403			
	DURSBAN		4.000			
	ETHYLENE BROMIDE EDB		.236			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
15S/04W-88 S	MALATHION	STRUCTURAL CONTROL	16.500			
	METALDEHYDE		1.273			
	PCP		2.299			
	PETROLEUM SOLVENTS		1.563			
	SILICA AEROGEL		2.025			
	VIKANE		119.950			
	WARFARIN		.460			
15S/04W-99 S	BROMACIL	RESIDENTIAL CONTR.	104.000			
	CARBARYL		10.750			
	CHLORDANE		127.426			
	CHLOROBENZILATE		52.823			
	COPPER SULFA-PENTHAH		3.420			
	DALAPON		112.200			
	DIAZINON		16.661			
	DORMANT OILS		155.000			
	HYVAR		9.600			
	KELTHANE		7.280			
	LINDANE		18.354			
	MALATHION		5.434			
	META-SYSTOX-R		25.161			
	PETROLEUM SOLVENTS		567.245			
	PHOSPHAMIDON		114.915			
	ROTENONE		.100			
	TETRADIFON		1.125			
	ZINEB		96.000			
	2,4-D		108.000			
16S/03W-88 S	ALDRIN	STRUCTURAL CONTROL	230.012			
	BAYGON		14.091			
	CALCIUM ARSENATE		.554			
	CARBARYL		19.900			
	CHLORDANE		8,604.394			
	CYANOGAS		9.644			
	DDVP		13.700			
	DIAZINON		95.352			
	DIELDRIN		394.229			
	DURSBAN		7.700			
	LINDANE		7.151			
	MALATHION		136.510			
	METALDEHYDE		3.370			
	PCP		2.830			
	SILICA AEROGEL		2.025			
	VIKANE		168.500			
	WARFARIN		15.770			
16S/03W-99 S	BROMACIL	RESIDENTIAL CONTR.	63.200			
	CARBARYL		15.400			
	CHLORDANE		497.668			
	CHLOROBENZILATE		46.032			
	COPPER SULFA-PENTHAH		3.990			
	DALAPON		86.700			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
16S/03W-99 S	DIAZINON	RESIDENTIAL CONTR.	35.893			
	DIELDRIN		2.250			
	DORMANT OILS		131.130			
	HYVAR		7.600			
	KELTHANE		12.455			
	LINDANE		19.079			
	MALATHION		104.190			
	META-SYSTOX-R		13.001			
	NICOTINE SULFATE		.470			
	PETROLEUM SOLVENTS		488.110			
	PHOSPHAMIDON		112.095			
	ROTENONE		.625			
	TETRADIFON		4.500			
	ZINEB		64.875			
	2,4-D		68.000			
16S/04W-88 S	ALDRIN	STRUCTURAL CONTROL	37.364			
	BAYGON		1.098			
	CALCIUM ARSENATE		.274			
	CARBARYL		7.650			
	CHLORDANE		2,533.630			
	CYANOGAS		3.360			
	DDT		.056			
	DDVP		8.223			
	DELNAV		.734			
	DIAZINON		45.494			
	DIELDRIN		129.100			
	DURSBAN		2.600			
	ETHYLENE BROMIDE EDB		.581			
	LINDANE		5.420			
	MALATHION		16.500			
	METALDEHYDE		1.032			
	METHYL BROMIDE		40.000			
	PCP		1.642			
	PETROLEUM SOLVENTS		3.911			
	SILICA AEROGEL		3.150			
	VIKANE		44.780			
	WARFARIN		.011			
16S/04W-99 S	CHLORDANE	RESIDENTIAL CONTR.	261.313			
	DDT		.500			
	DIAZINON		3.513			
	DIELDRIN		6.844			
	MALATHION		29.500			
17S/02W-88 S	ALDRIN	STRUCTURAL CONTROL	36.867			
	BAYGON		7.095			
	CALCIUM ARSENATE		1.194			
	CARBARYL		21.499			
	CHLORDANE		5,140.420			
	CYANOGAS		6.510			
	DDT		.032			

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COMPREHENSIVE OCEAN AREA PLAN - PESTICIDE DATA

LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	AGR	AGR APPS	ACRES
17S/02W-88 S	DDVP	STRUCTURAL CONTROL	6.650			
	DELNAV		.734			
	DIAZINON		128.820			
	DIELDRIN		66.913			
	DURSBAN		6.760			
	ETHYLENE BROMIDE EDB		.344			
	LINDANE		2.063			
	MALATHION		32.822			
	METALDEHYDE		2.065			
	METHYL BROMIDE		410.000			
	PCP		.416			
	PETROLEUM SOLVENTS		2.347			
	PIVAL		.002			
	SILICA AEROGEL		25.425			
	VIKANE		240.000			
	WARFARIN		.022			
17S/02W-99 S	BROMACIL	RESIDENTIAL CONTR.	22.400			
	CARBARYL		3.216			
	CHLORDANE		269.193			
	CHLOROBENZILATE		22.000			
	DALAPON		52.700			
	DDT		1.000			
	DIAZINON		19.120			
	DIELDRIN		.450			
	DORMANT OILS		62.000			
	HYVAR		4.000			
	KELTHANE		.420			
	LINDANE		11.900			
	MALATHION		28.382			
	META-SYSTOX-R		14.000			
	PETROLEUM SOLVENTS		291.270			
	PHOSPHAMIDON		62.000			
	ZINEB		59.250			
	2,4-D		106.000			
17S/03W-88 S	ALDRIN	STRUCTURAL CONTROL	153.384			
	BAYGON		19.000			
	CALCIUM ARSENATE		.700			
	CARBARYL		46.550			
	CHLORDANE		2,707.725			
	CYANOGAS		2.940			
	DDVP		3.200			
	DELNAV		.734			
	DIAZINON		34.474			
	DIELDRIN		120.263			
	DURSBAN		3.100			
	MALATHION		11.500			
	METALDEHYDE		.757			
	METHYL BROMIDE		10.000			
	PCP		4.933			

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
17S/03W-88 S	PIVAL	STRUCTURAL CONTROL	.006			
	PYPETHRINS		.549			
	VIKANE		49.650			
	WARFARIN		.007			
17S/03W-99 S	CHLORDANE	RESIDENTIAL CONTR.	9.754			
	CHLOROBENZILATE		.055			
	DDT		3.250			
	DIAZINON		6.319			
	KELTHANE		1.632			
	KURON		4.050			
	MALATHION		5.000			
	ROTENONE		1.275			
17S/04W-88 S	ALDRIN	STRUCTURAL CONTROL	49.732			
	CALCIUM ARSENATE		.613			
	CARBARYL		5.200			
	CHLORDANE		125.050			
	DDT		.040			
	DIAZINON		2.018			
	DIELDRIN		1.125			
	ETHYLENE BROMIDE EDB		.453			
	PCP		.247			
	PETROLEUM SOLVENTS		3.132			
	SILICA AEROGEL		1.575			
	VIKANE		183.500			
17S/04W-99 S	AMITRULE	RESIDENTIAL CONTR.	1.800			
	CARBARYL		5.750			
	CHLORDANE		65.516			
	CHLOROBENZILATE		3.924			
	COPPER SULFA-PENTHAH		5.240			
	DDT		1.000			
	DIAZINON		20.898			
	DIURON		.800			
	KARATHANE		1.055			
	KELTHANE		8.678			
	LINDANE		3.356			
	MALATHION		18.250			
	META-SYSTOX-R		1.748			
	PETROLEUM SOLVENTS		184.112			
	PHOSPHAMIDON		1.587			
	ROTENONE		.725			
	TETRADIFON		3.626			
	COPPER		2.200			
18S/02W-04 S	FOLCID	TOMATOES		30.000	1	20.00
	GUTHION	TOMATOES		15.000	1	20.00
	NALED	TOMATOES		20.000	1	20.00
18S/02W-21 S	DDT	BEANS, DRY		160.000	3	110.00
		TOMATOES		511.000	4	536.00
	SYSTOX	LETTUCE		12.500	1	50.00
	TOXAPHENE	BEANS, DRY		200.000	2	90.00

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LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	LBS. USED AGR	AGR APPS	ACRES
18S/02W-21 S	TOXAPHENE	TOMATOES		922.000	3	436.00
18S/02W-88 S	ALDRIN	STRUCTURAL CONTROL	73.196			
	BAYGON		7.952			
	CALCIUM ARSENATE		.428			
	CARBARYL		66.140			
	CHLORDANE		5,732.815			
	CYANOGAS		17.850			
	DDT		1.064			
	DDVP		9.500			
	DELNAV		.734			
	DIAZINON		95.944			
	DIELDRIN		74.365			
	DURSBAN		6.240			
	ETHYLENE BROMIDE EDB		.688			
	HEPTACHLOR		.350			
	LINDANE		8.880			
	MALATHION		38.000			
	METALDEHYDE		2.065			
	METHYL BROMIDE		60.000			
	PCP		2.976			
	PETROLEUM SOLVENTS		4.694			
	PIVAL		2.002			
	SILICA AEROGEL		16.875			
	VIKANE		238.750			
	WARFARIN		.915			
18S/02W-99 S	AMITROLE	RESIDENTIAL CONTR.	3.600			
	ANSAR 138		49.600			
	BROMACIL		3.600			
	CARBARYL		.750			
	CHLORDANE		146.702			
	CHLOROBENZILATE		2.472			
	CYANOGAS		.026			
	DALAPON		13.550			
	DIAZINON		15.394			
	DIELDRIN		3.263			
	DORMANT OILS		174.685			
	KELTHANE		.420			
	LINDANE		.200			
	MALATHION		27.045			
	PETROLEUM SOLVENTS		289.940			
	ROTENONE		.313			
	SIMAZINE		2.000			
	TETRADIFON		1.125			
	2,4-D		.250			
18S/03W-88 S	CALCIUM ARSENATE	STRUCTURAL CONTROL	.044			
	DIELDRIN		.750			
	PCP		.678			
19S/02W-05 S	CALCIUM ARSENATE	FALLOWLAND		17.500	1	5.00
26S/07E-88 S	DIAZINON	STRUCTURAL CONTROL	.094			

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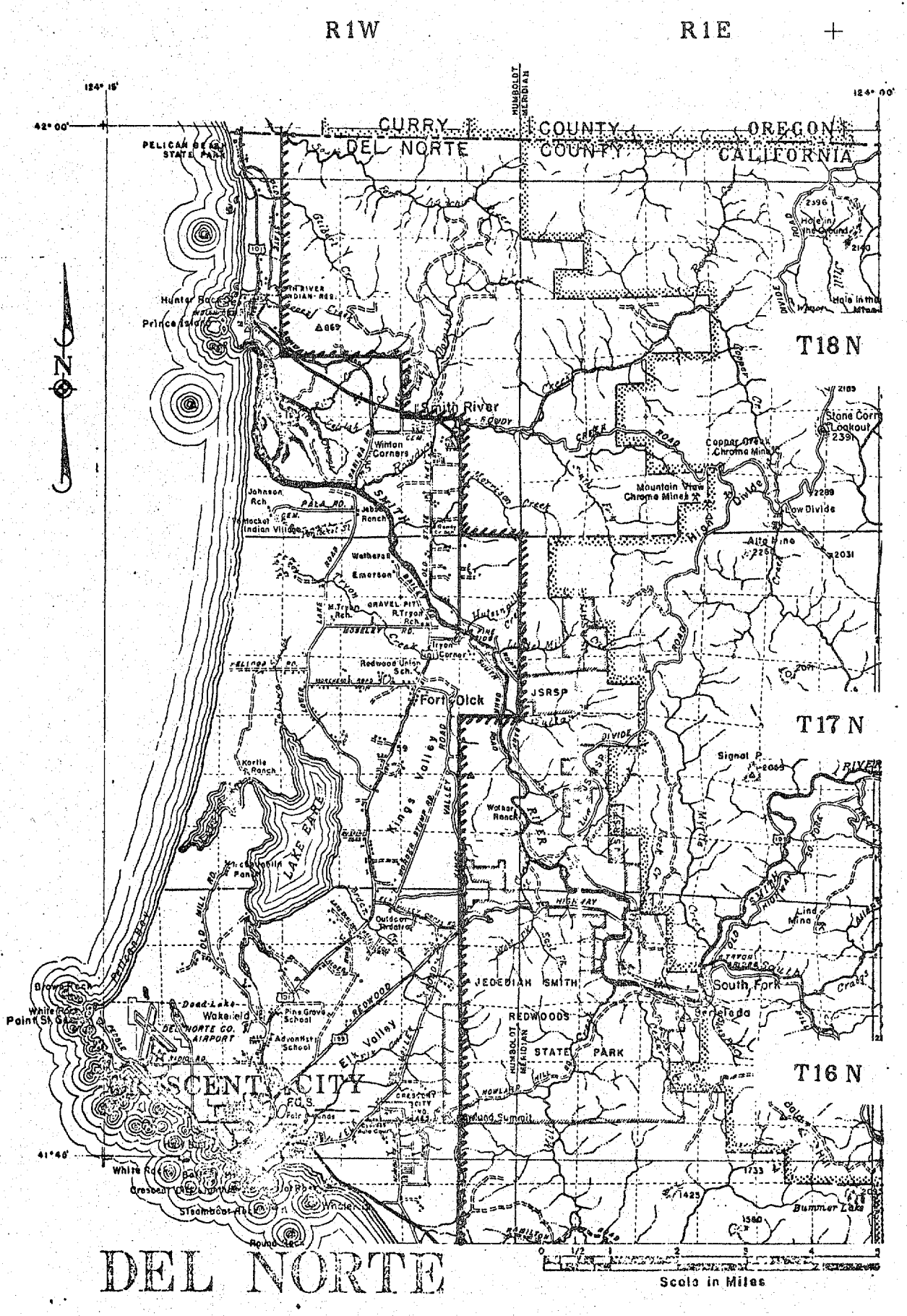
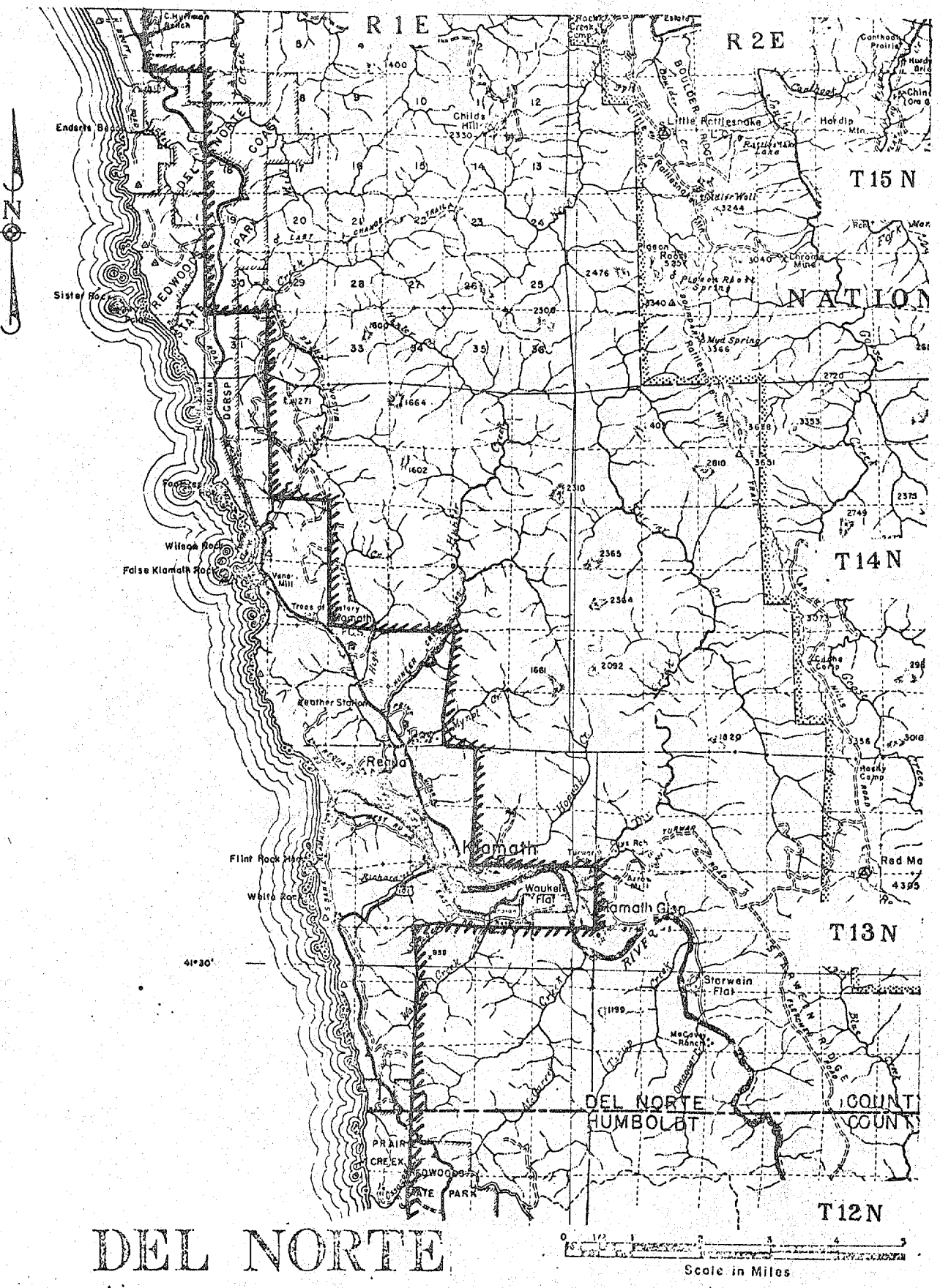
LOCATION CONT.	CHEMICAL	COMMODITY	LBS. USED NON-AGR	AGR	AGR APPS	ACRES
26S/07E-88 S	DIELDRIN	STRUCTURAL CONTROL	.070			
27S/08E-88 S	DIAZINON	STRUCTURAL CONTROL	.062			
	DIELDRIN		.070			
28S/10E-88 S	DIAZINON	STRUCTURAL CONTROL	.031			
	DIELDRIN		.023			
29S/10E-88 S	DIAZINON	STRUCTURAL CONTROL	.312			
	DIELDRIN		.164			
32S/12E-88 S	DIAZINON	STRUCTURAL CONTROL	.062			
	DIELDRIN		.070			
32S/13E-88 S	DIAZINON	STRUCTURAL CONTROL	.375			
	DIELDRIN		.281			
32S/13E-99 S	CHLORDANE	RESIDENTIAL CONTR.	1.203			

PESTICIDE USE DATA

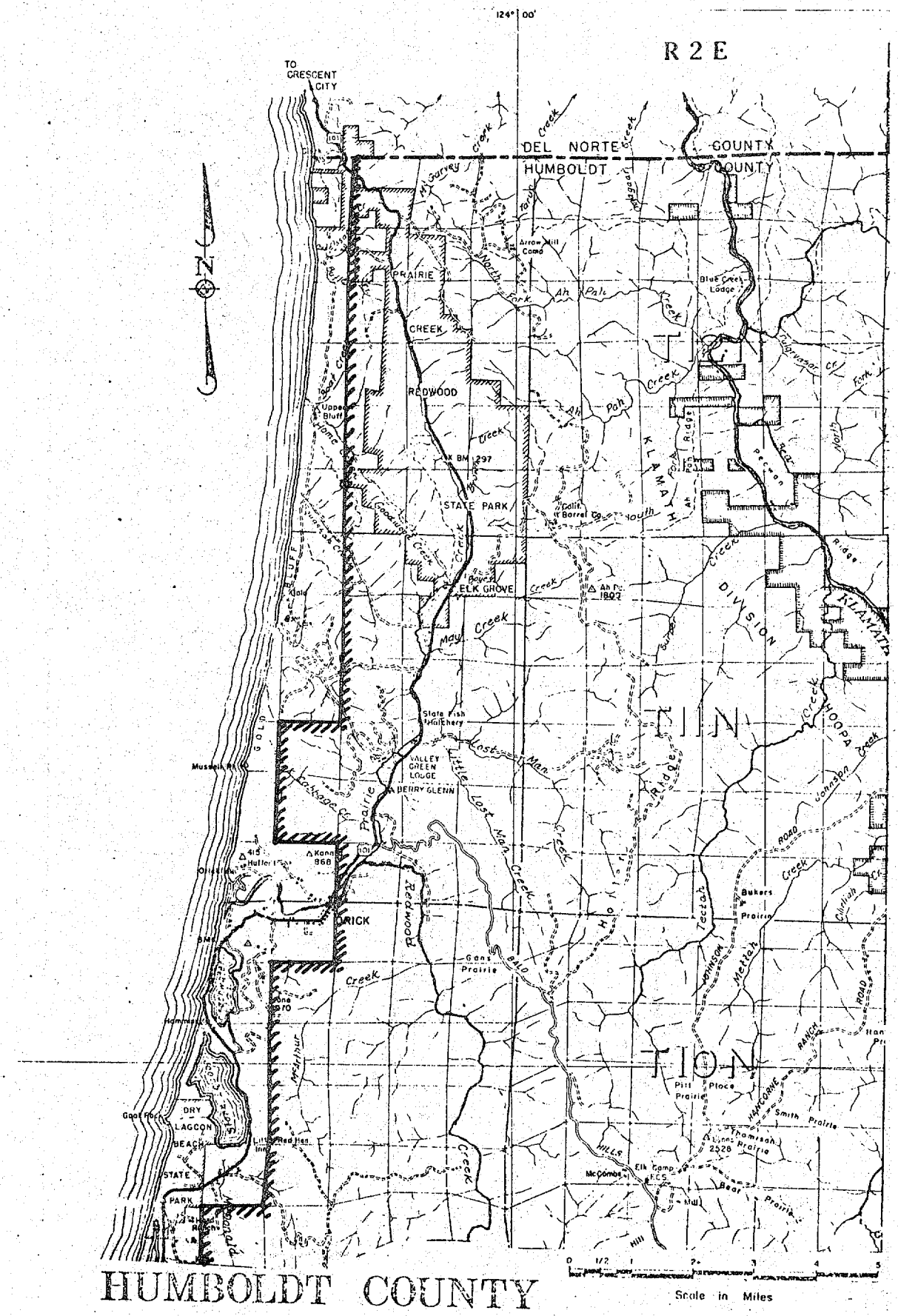
MAP SUPPLEMENT


R1W
R1E
CURRY COUNTY
DEL NORTE COUNTY
OREGON
CALIFORNIA
HUMBOLDT MERIDIAN
124° 15'
124° 00'
42° 00'
41° 40'
T18 N
T17 N
T16 N
N
PELICAN BEACH STATE PARK
Hunter Rock
Prince Island
Smith River
Winton Corners
Johnson Rch.
Jebson Ranch
Wetherall
Emerson
GRAVEL PIT
Tryon Corner
Redwood Union Sch.
Fort Dick
JSRSP
Kings Valley
Kortle Ranch
LAKE EARL
Wather Ranch
Outdoor Theatre
JEDEDIAH SMITH
REDWOODS
STATE PARK
South Fork
Berteleda
Elk Valley
Wakefield
Pine Grove School
Advantist School
DEL NORTE CO. AIRPORT
Brown Rock
White Rock
Point St. George
SCENT CITY
F.C.S.
Fair Grounds
Round Rock
Steamboat Rock
Copper Creek Chrome Mine
Mountain View Chrome Mines
Low Divide
Alta Pine
Stone Corr Lookout
Signal P.
Lind Mine
Bummer Lake
Scale in Miles

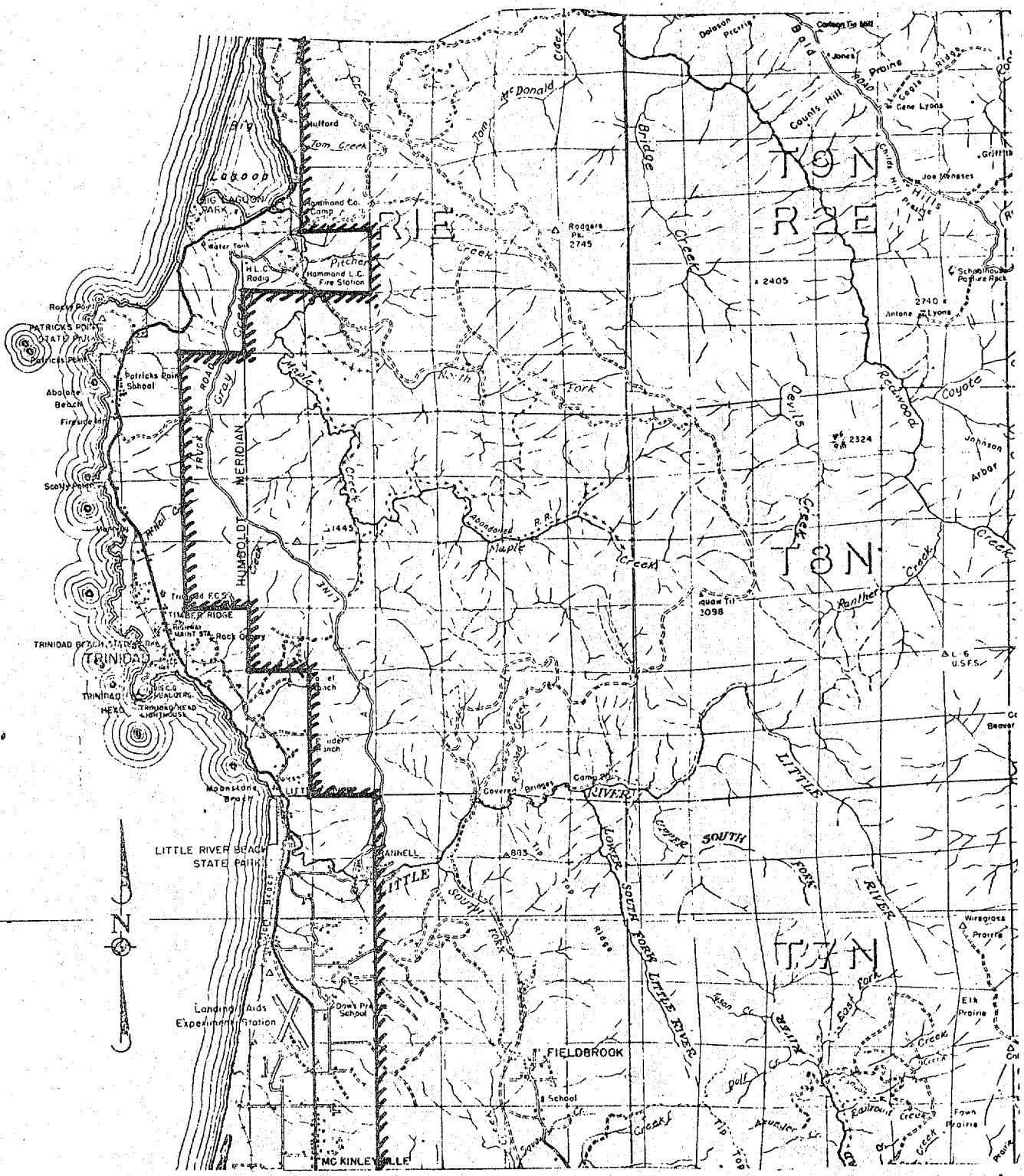
DEL NORTE


R 1 E
R 2 E
T 15 N
T 14 N
T 13 N
T 12 N
NATION
Enderts Beach
Sister Rock
Wilson Rock
False Klamath Rock
Flint Rock Hem
White Rock
Childs Hill
Little Rattlesnake
Hardin Mtn.
Pigeon Roost
Chrome Mine
Mud Spring
Weather Station
Klamath
Waukell Flat
Klamath Glen
Starwein Flat
McCovey Ranch
Red Mo
DEL NORTE COUNTY
HUMBOLDT COUNTY
PRAIRIE CREEK
REDWOODS STATE PARK
41°30'
Scale in Miles

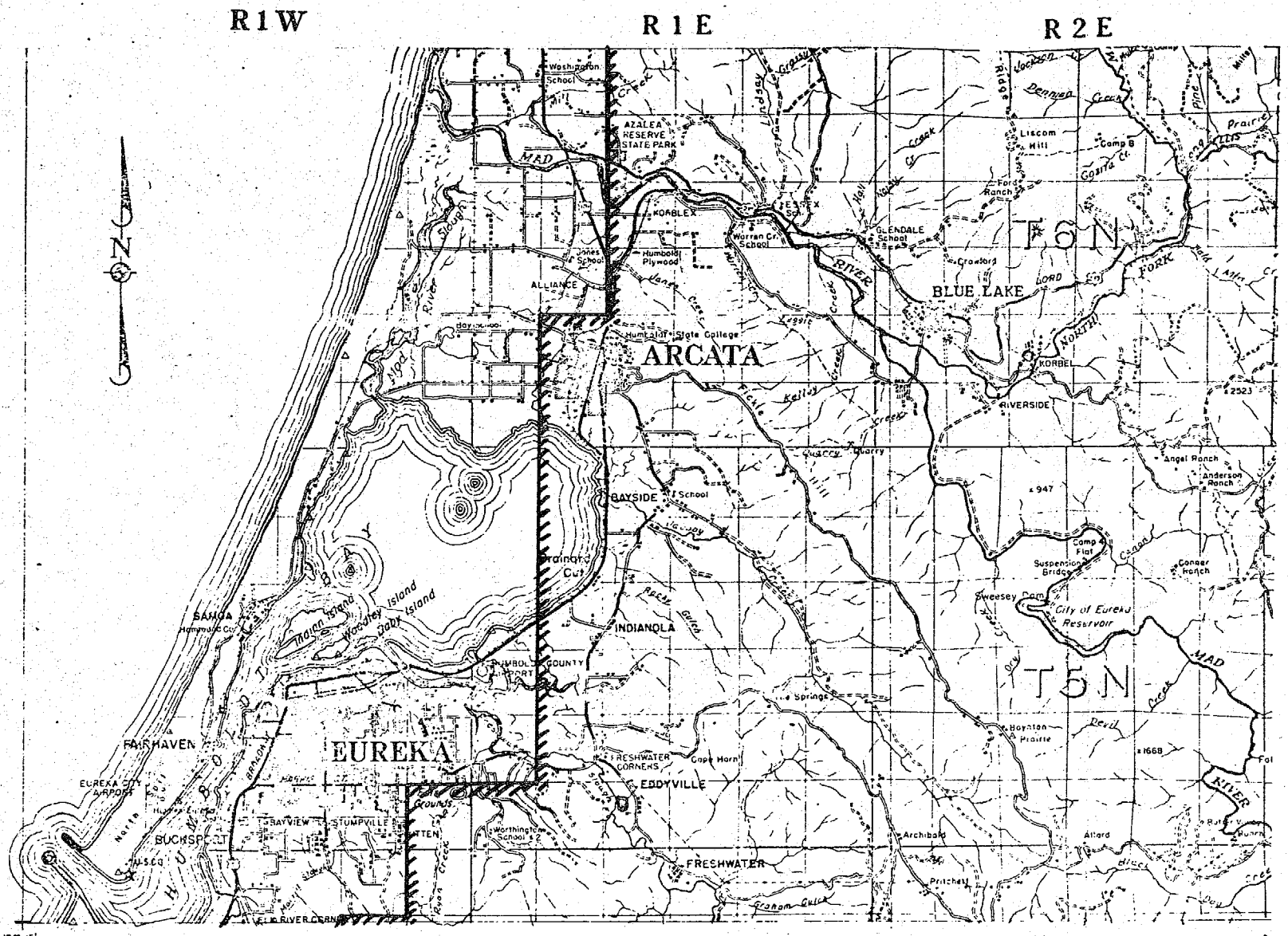
DEL NORTE



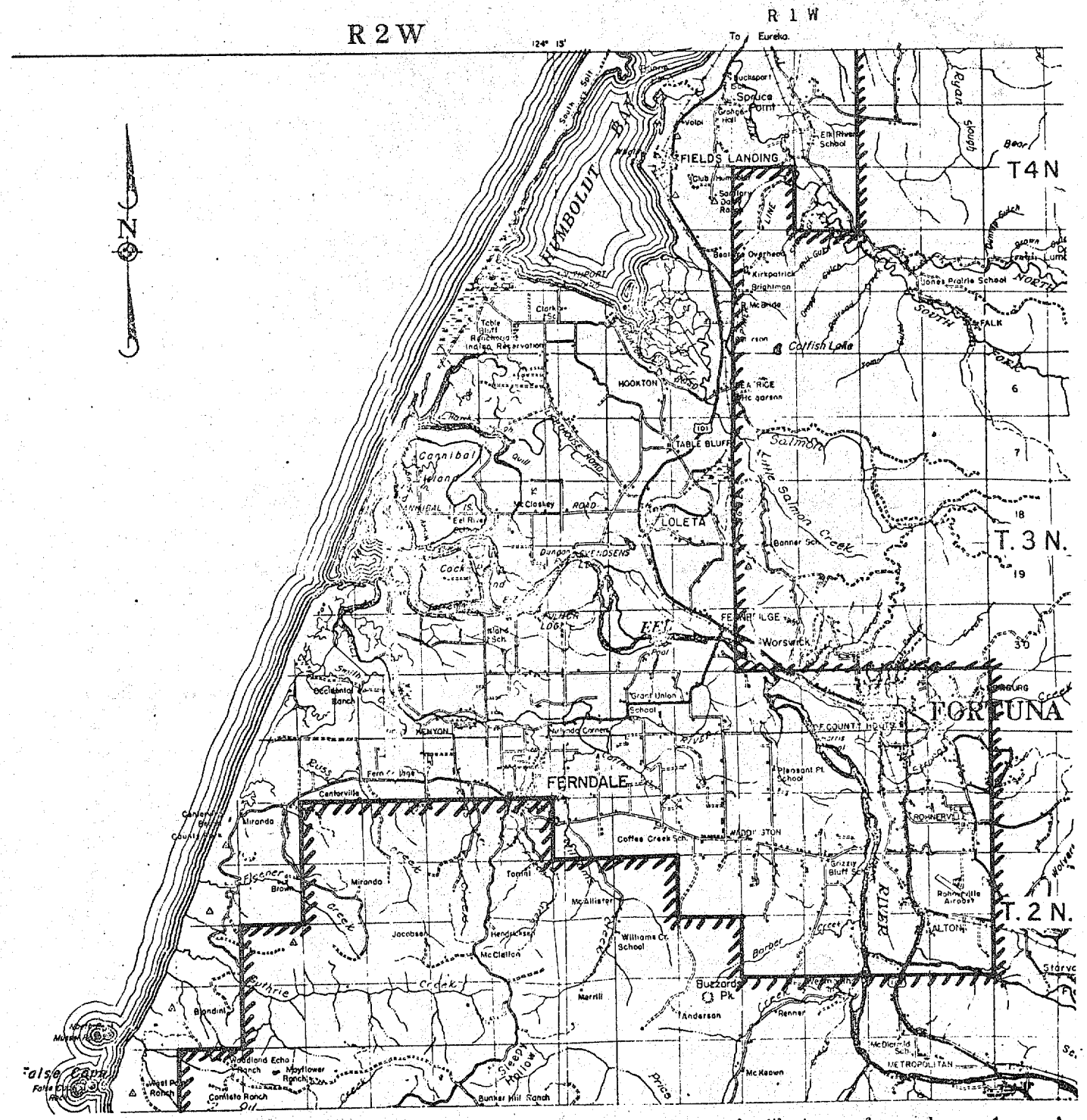
HUMBOLDT COUNTY



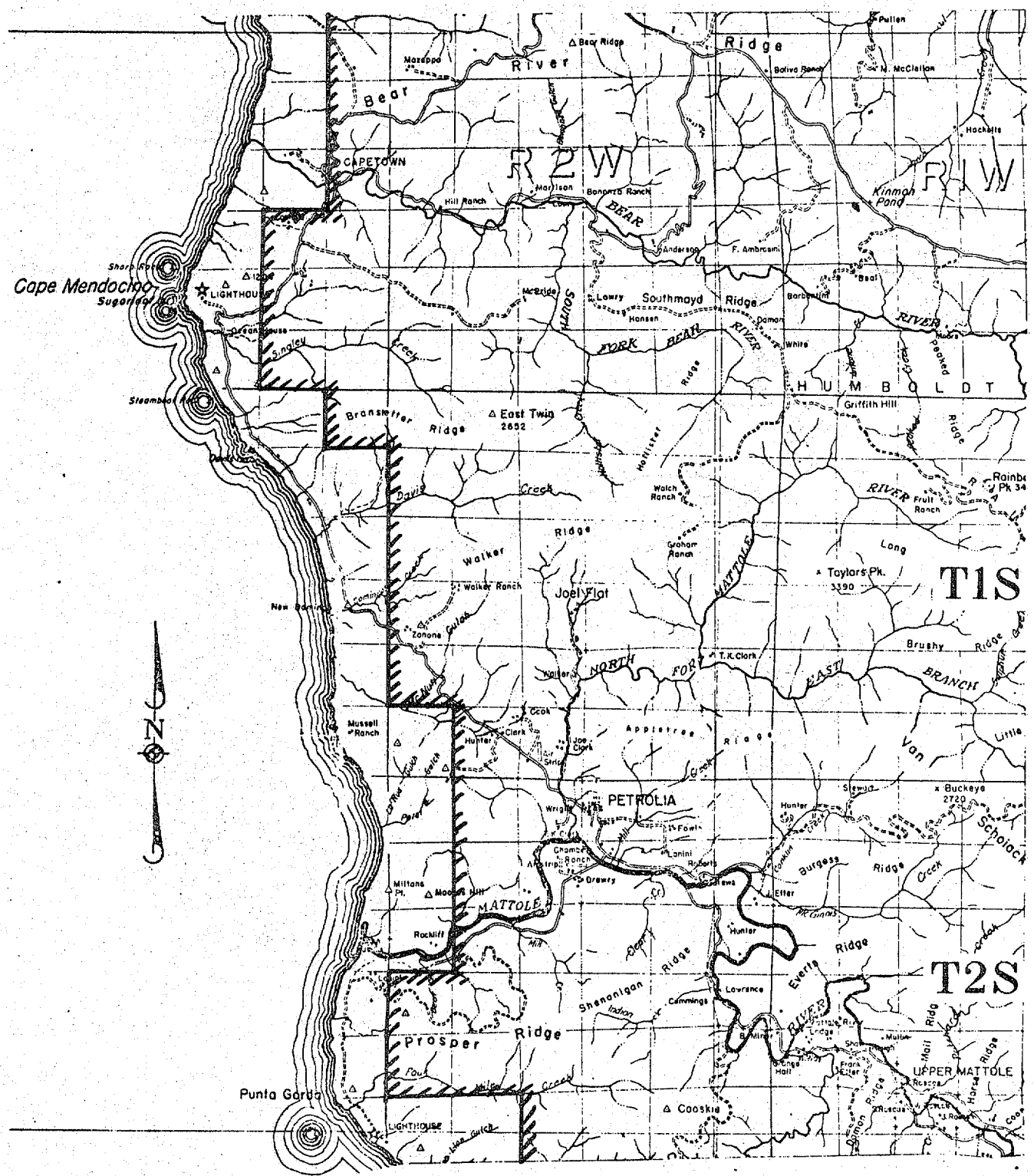
HUMBOLDT COUNTY



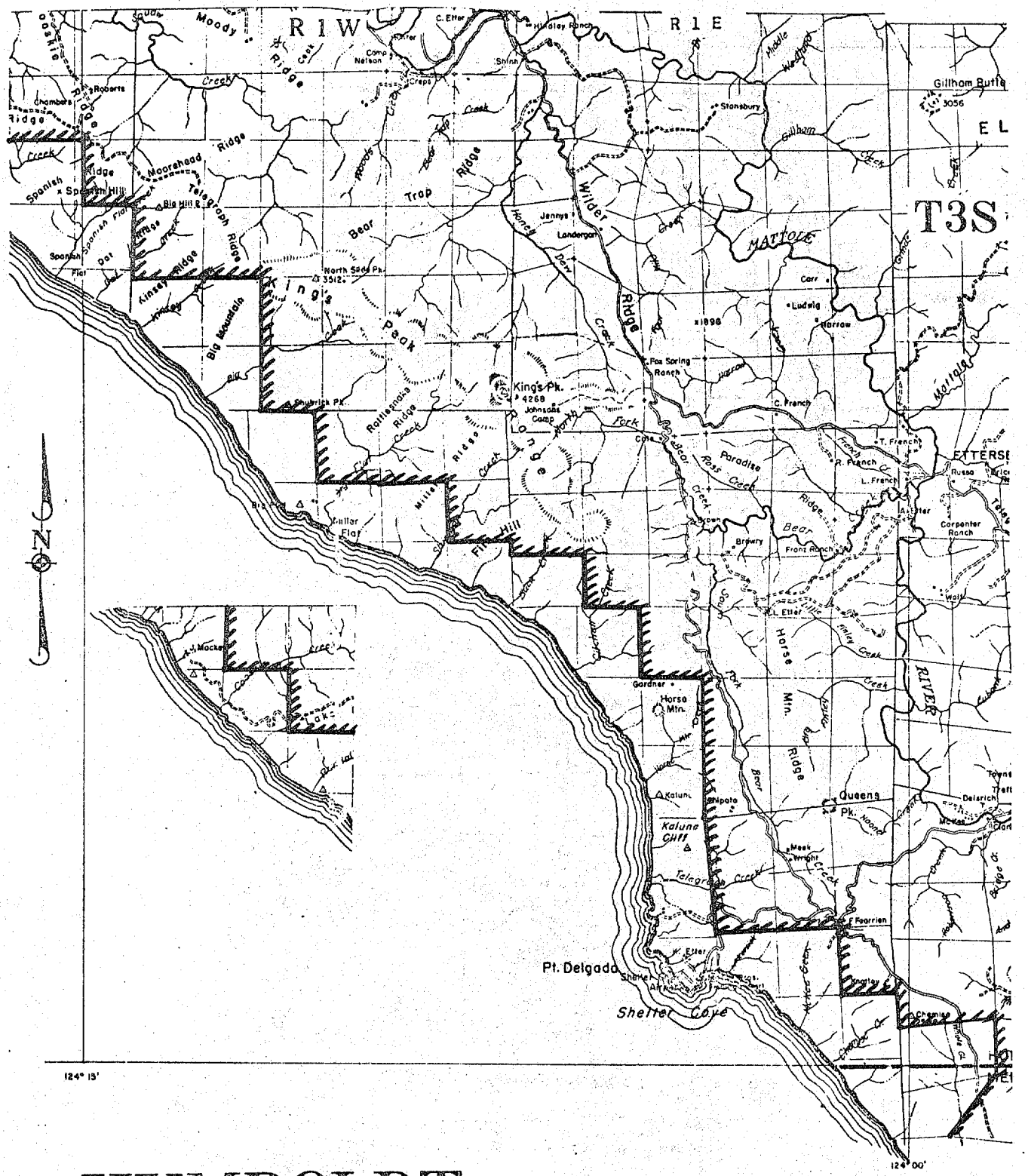
HUMBOLDT COUNTY



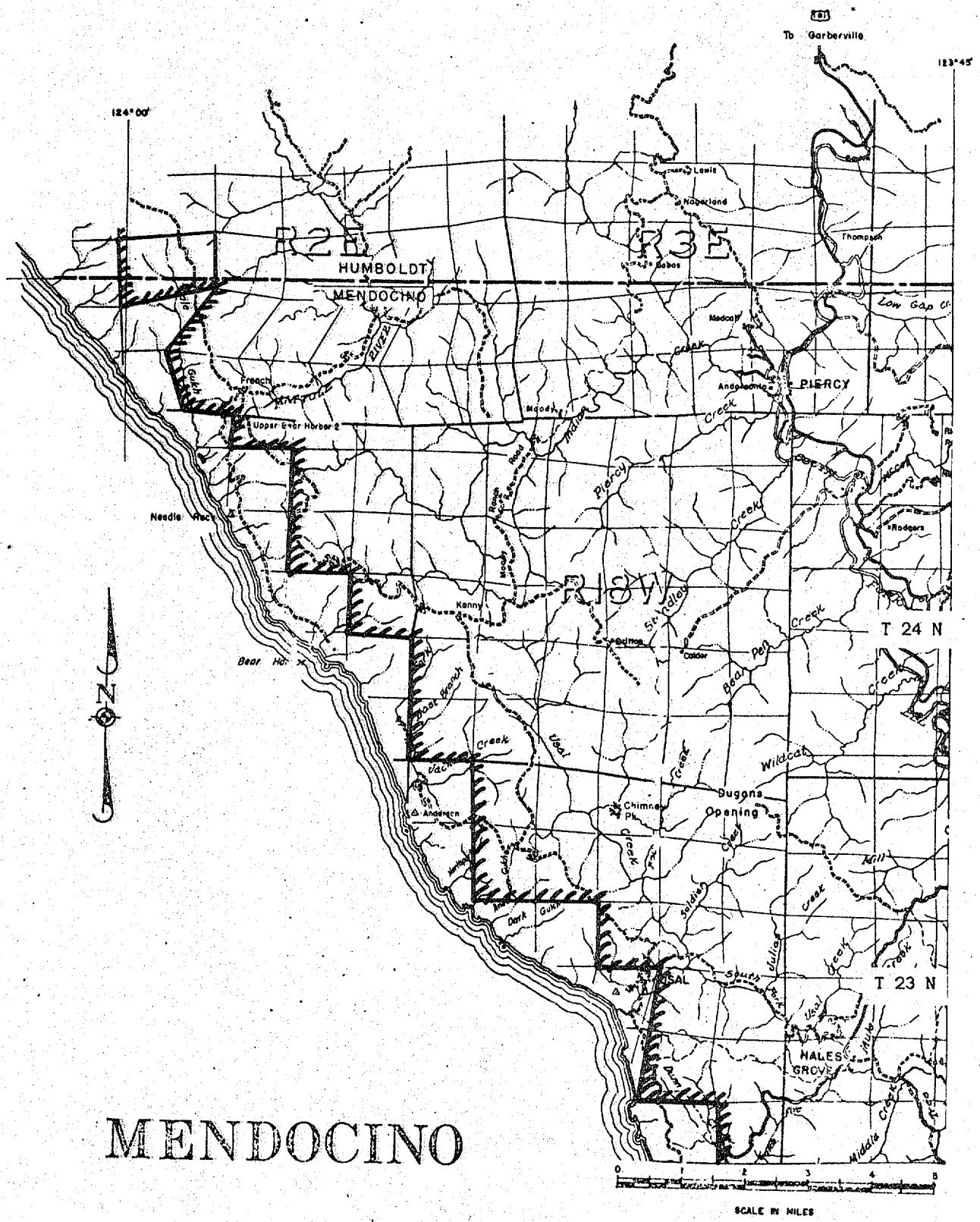
HUMBOLDT COUNTY



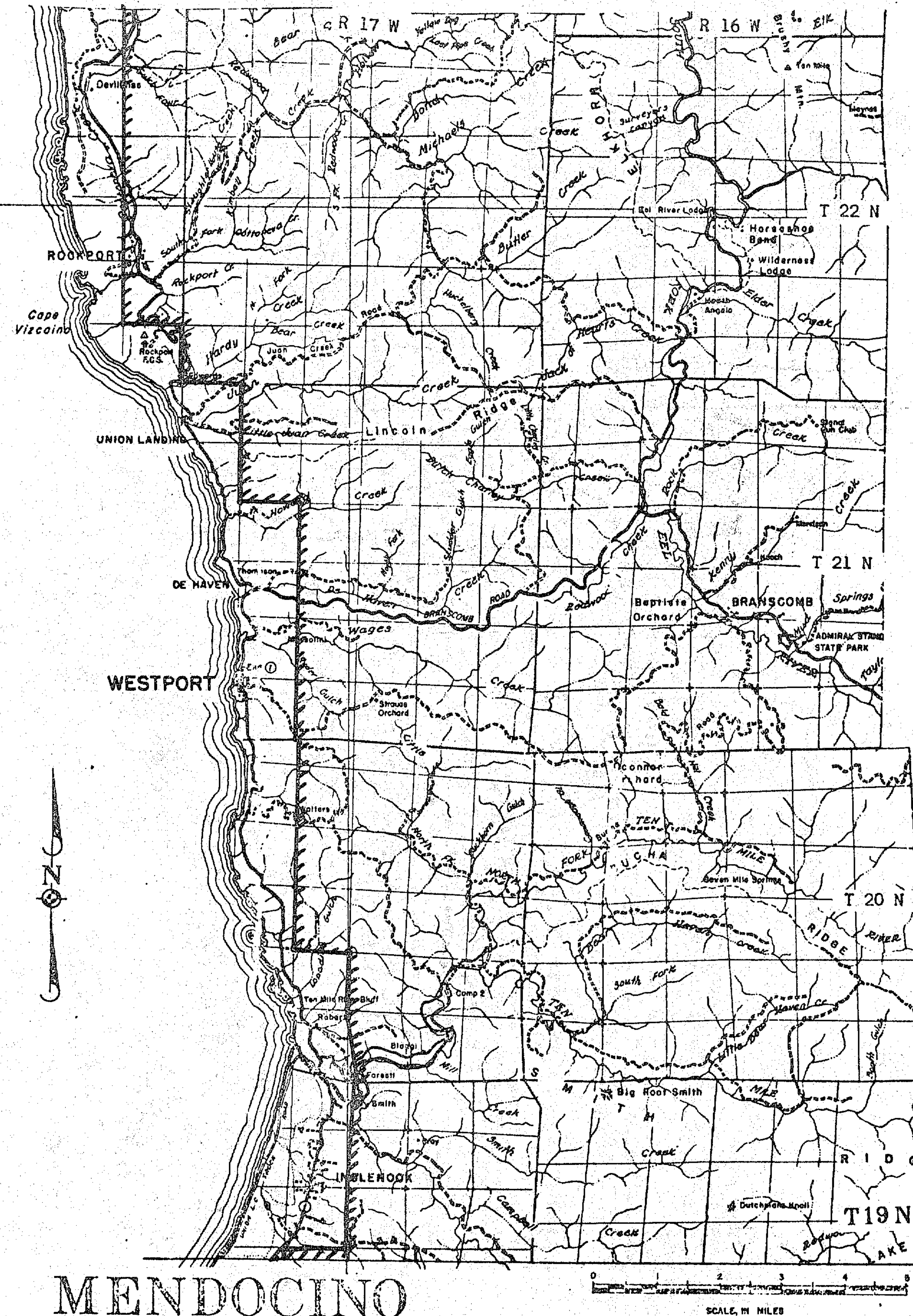
HUMBOLDT COUNTY

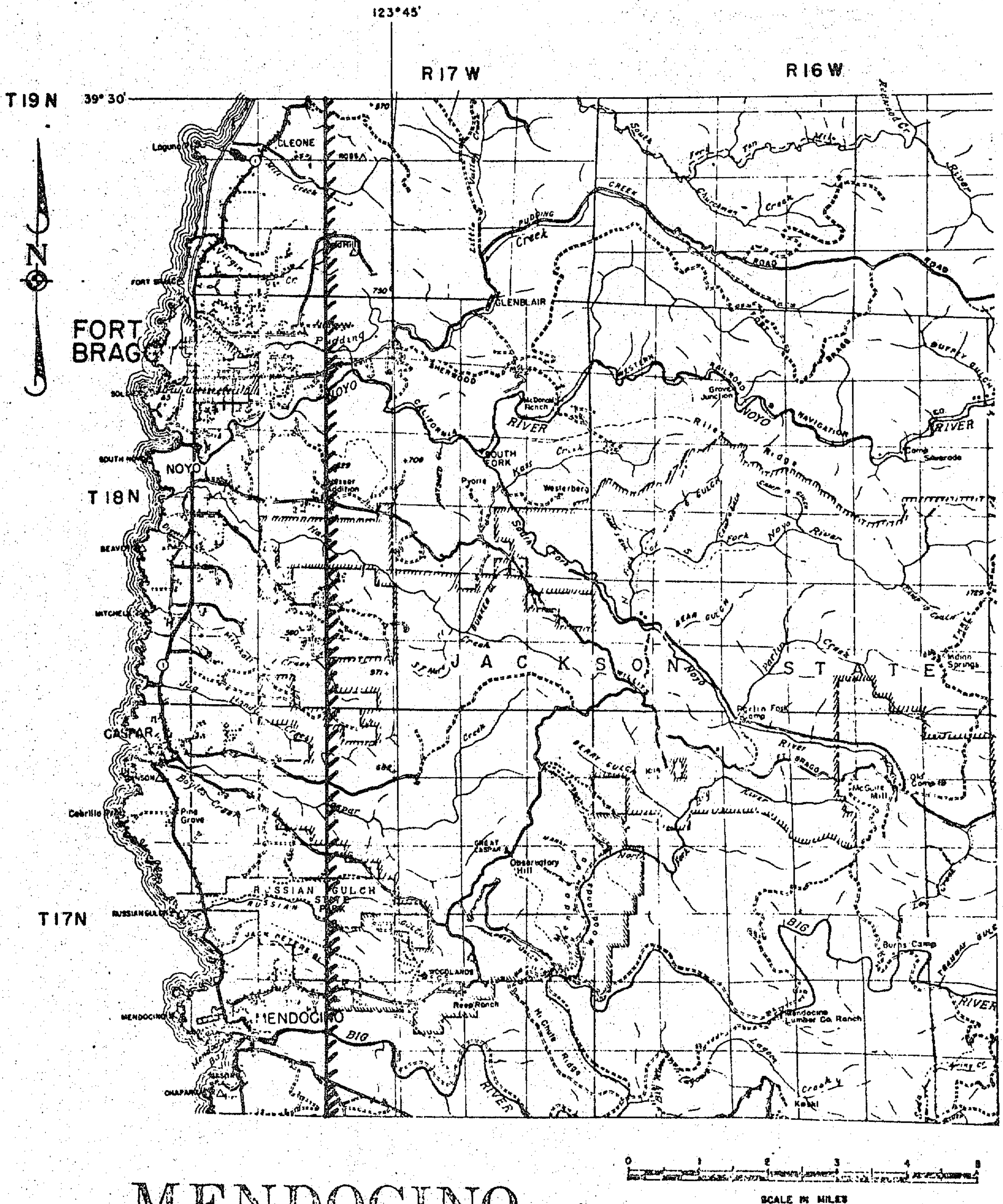

R1W
R1E
T3S
Moody Ridge
Moorehead Ridge
Telegraph Ridge
Spanish Hill
Big Hill
Kinsey Ridge
Big Mountain
Bear Trap Ridge
Wilder Ridge
Jennys
Landergan
North Side Pk.
3512
King's Peak
Shubrick Pk.
Rattlesnake Ridge
King's Pk.
4268
Johnsons Camp
Fox Spring Ranch
Ludwig
Harrow
Carr
Stansbury
Gillham Butte
3056
Mattole
C. French
T. French
R. French
L. French
Paradise
Ross Creek
Bear Creek
Brown
Brewry
Front Ranch
Carpenter Ranch
Russa
Wolf
Miller Flat
Fire Hill
Horse Mtn. Ridge
Gardner
Horse Mtn.
Kaluna
Kaluna Cliff
Queens Pk.
Meek Wright
Telegraph Creek
F. Fearrien
Pt. Delgado
Shelter Cove
Knotley
Chemise
Delsrich
Mattole
RIVER
124° 15'
124° 00'
N
0 1 2 3 4 5
Scale in Miles

HUMBOLDT


To Garberville
123°45'
124°00'
R2E
R3E
R18W
HUMBOLDT
MENDOCINO
Lewis
Nagerland
Thompson
Low Gap Cr.
Medcalf
PIERCY
Andersonia
French
Upper Bear Harbor 2
Needle Rock
Kenny
Bear Ha
Rodgers
T 24 N
T 23 N
Dugans Opening
Chimney Pk.
Anderson
Wildcat
Mill
Dark Gulch
Usal
HALES GROVE
Middle Creek
N
0 1 2 3 4 5
SCALE IN MILES

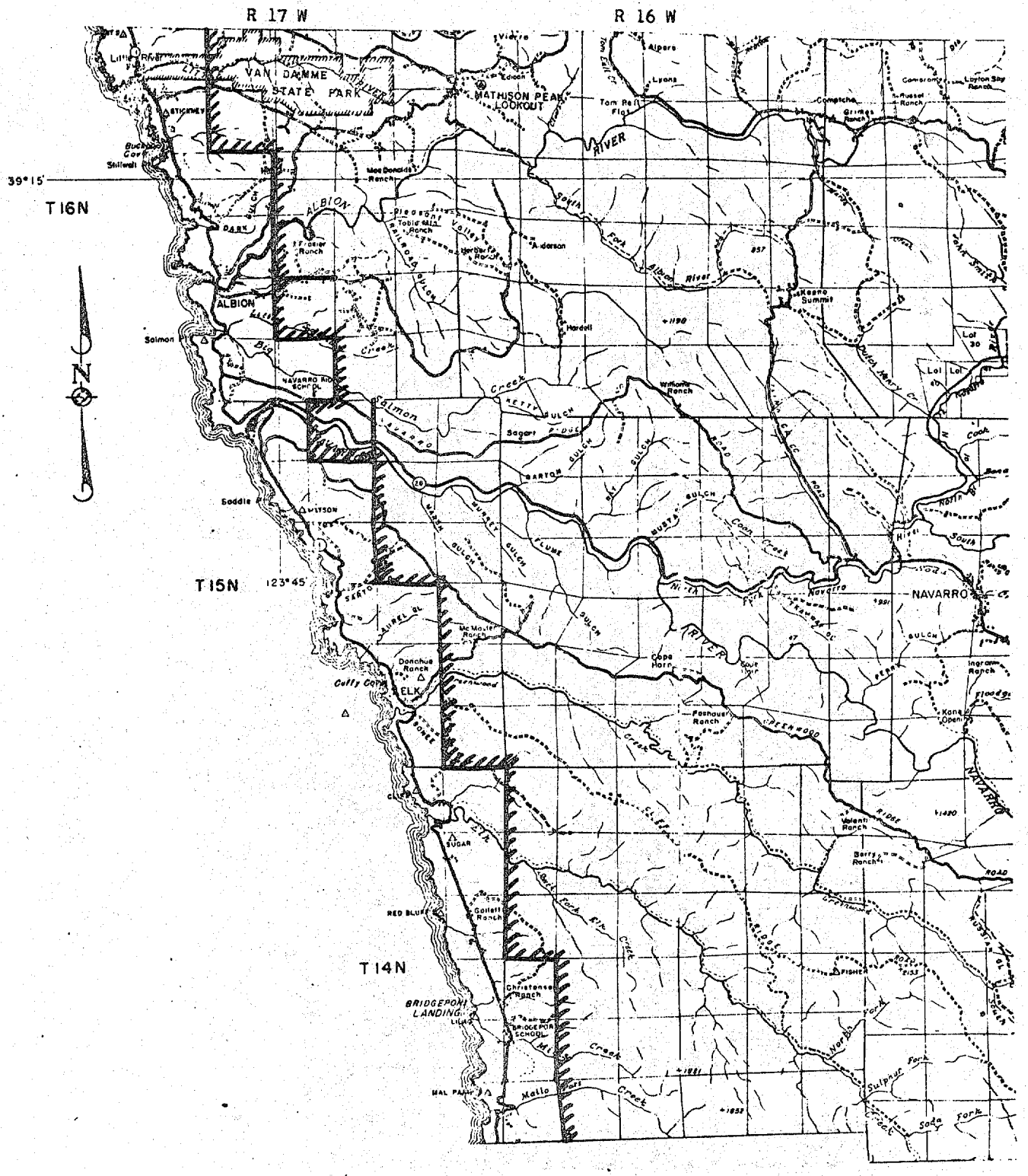
MENDOCINO


R 17 W
R 16 W
T 22 N
T 21 N
T 20 N
T19 N
ROCKPORT
Cape Vizcaino
UNION LANDING
DE HAVEN
WESTPORT
BRANSCOMB
Baptiste Orchard
ADMIRAL STANDLEY STATE PARK
Eel River Lodge
Horseshoe Bend
Wilderness Lodge
Lincoln Ridge
Strauss Orchard
Seven Mile Spring
Camp 2
Big Rock Smith
INGLENOOK
Dutchmans Knoll
MENDOCINO
SCALE, IN MILES
0
1
2
3
4
5



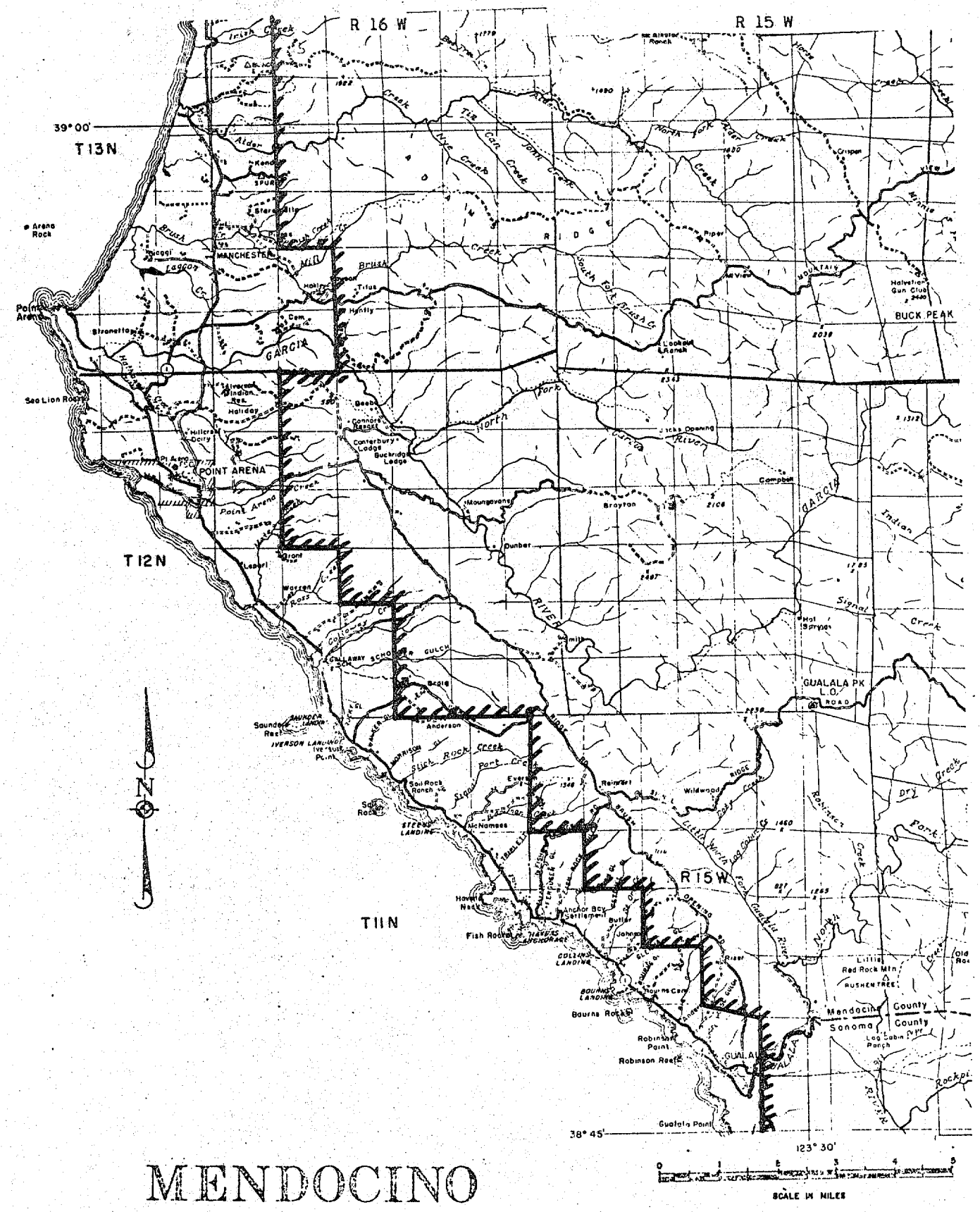
123°45'
R17W
R16W
T19N
39°30'
T18N
T17N
N
FORT BRAGG
CLEONE
GLENBLAIR
NOYO
CASPAR
MENDOCINO
JACKSON STATE
RUSSIAN GULCH STATE PARK
NOYO RIVER
Pudding Creek
SOUTH FORK
Observatory Hill
Burns Camp
Mendocino Lumber Co. Ranch
BIG RIVER
0 1 2 3 4 5
SCALE IN MILES

MENDOCINO

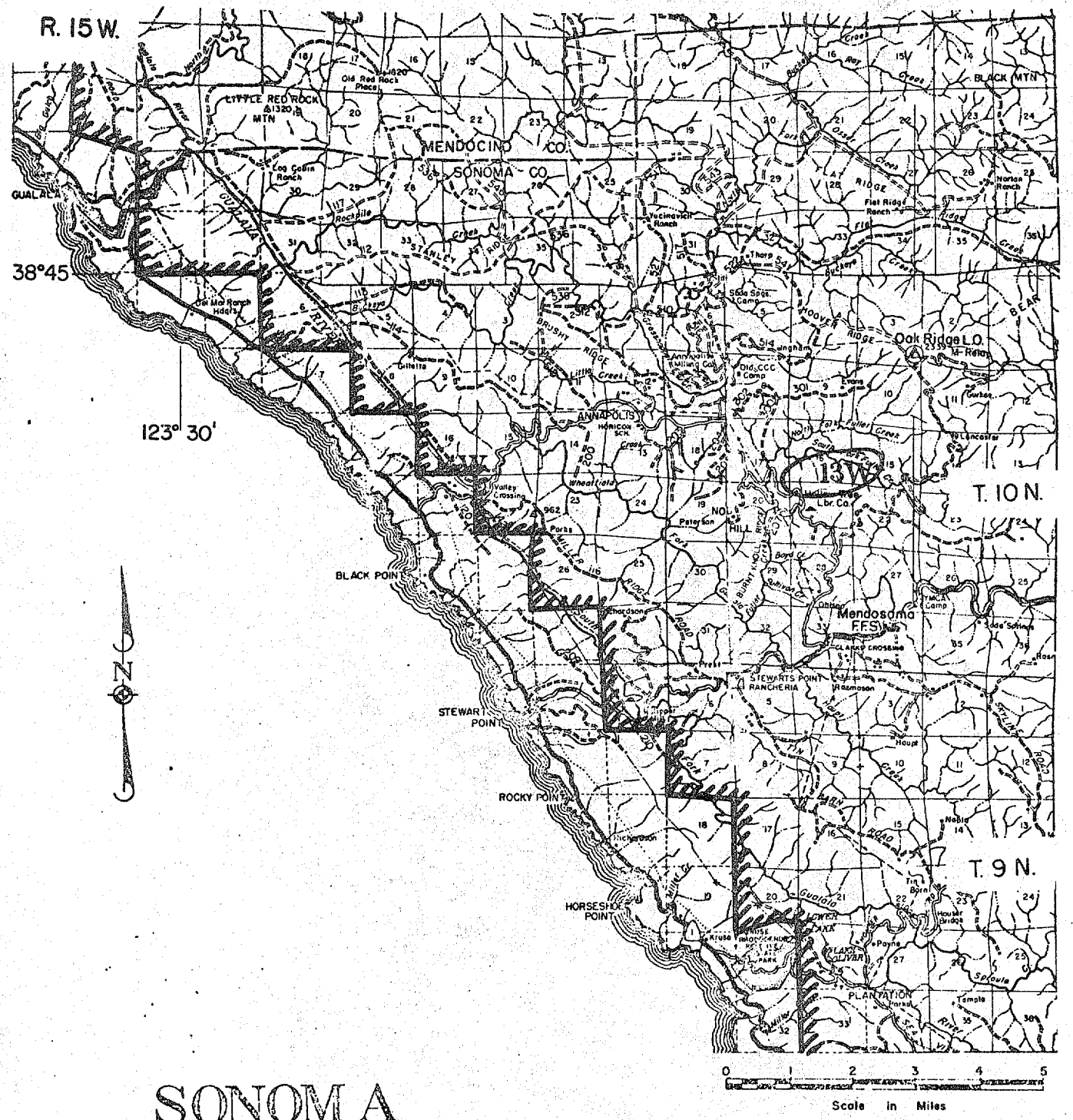


MENDOCINO

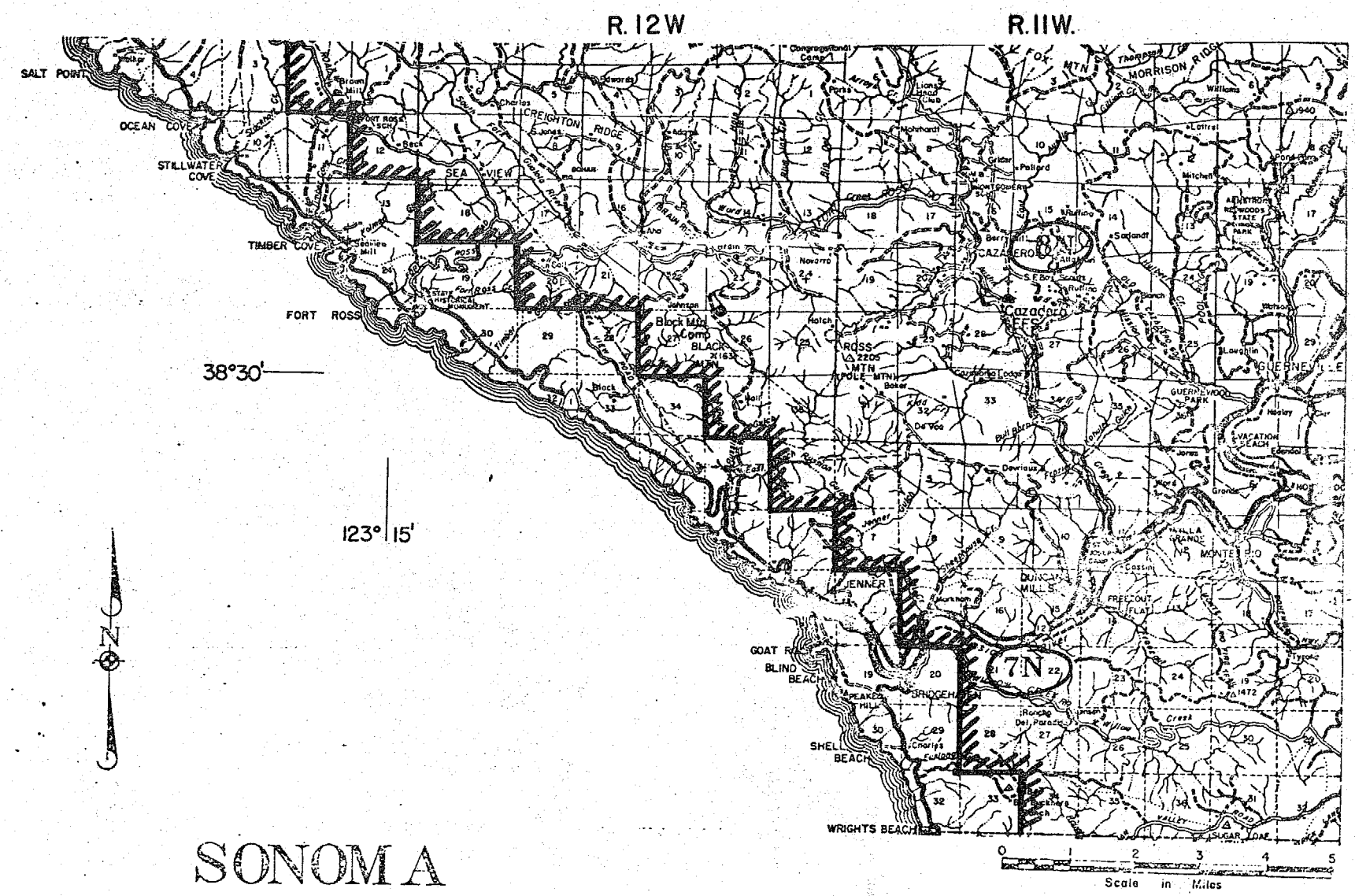
SCALE IN MILES


R 16 W
R 15 W
39° 00'
T 13 N
T 12 N
T 11 N
R 15 W
38° 45'
123° 30'
Arena Rock
Point Arena
Sea Lion Rock
MANCHESTER
POINT ARENA
GARCIA
RIVER
BUCK PEAK
GUALALA PK L.O.
Mendocino County
Sonoma County
Bourns Rock
Robinson Point
Robinson Reef
Gualala Point
Fish Rock
Anchor Bay Settlement
Saunders Reef
Iverson Landing
Stick Rock Creek
Soil Rock Ranch
Steele Landing
Gallaway Schooner Gulch
Dunbar
Brayton
Campbell
Jacks Opening
Hot Springs
Wildwood
Reinert
Anderson
Beebe
Canterbury Lodge
Buckridge Lodge
Moungavans
Hayes Anchorage
Collins Landing
Bourns Landing
Little Red Rock Mtn
Rushen Tree
Log Cabin Ranch
Mountain View
Halvetian Gun Club
Lookout Ranch
Piper
Crispen
Irish Creek
Alder Creek
Brush Creek
Mill Creek
Lagoon Cr.
Tin Can Creek
John Creek
Nye Creek
North Fork
South Fork Brush Cr.
Indian Creek
Signal Creek
Dry Creek
Robinson Creek
Little North Fork Gualala River
Gualala River
Ross Creek
Point Arena Creek
Hillcrest Dairy
Holiday
Stranetta
Cem
Hently
Titus
Beebe
Warren
Leport
Grant
Anderson
Everson
McNamees
Fish Rock
Butler
Johnson
Riser
Wamith
Ridge Rd
Sunset Rd
Bourns Cem
Gualala
Scale in Miles
0 1 2 3 4 5

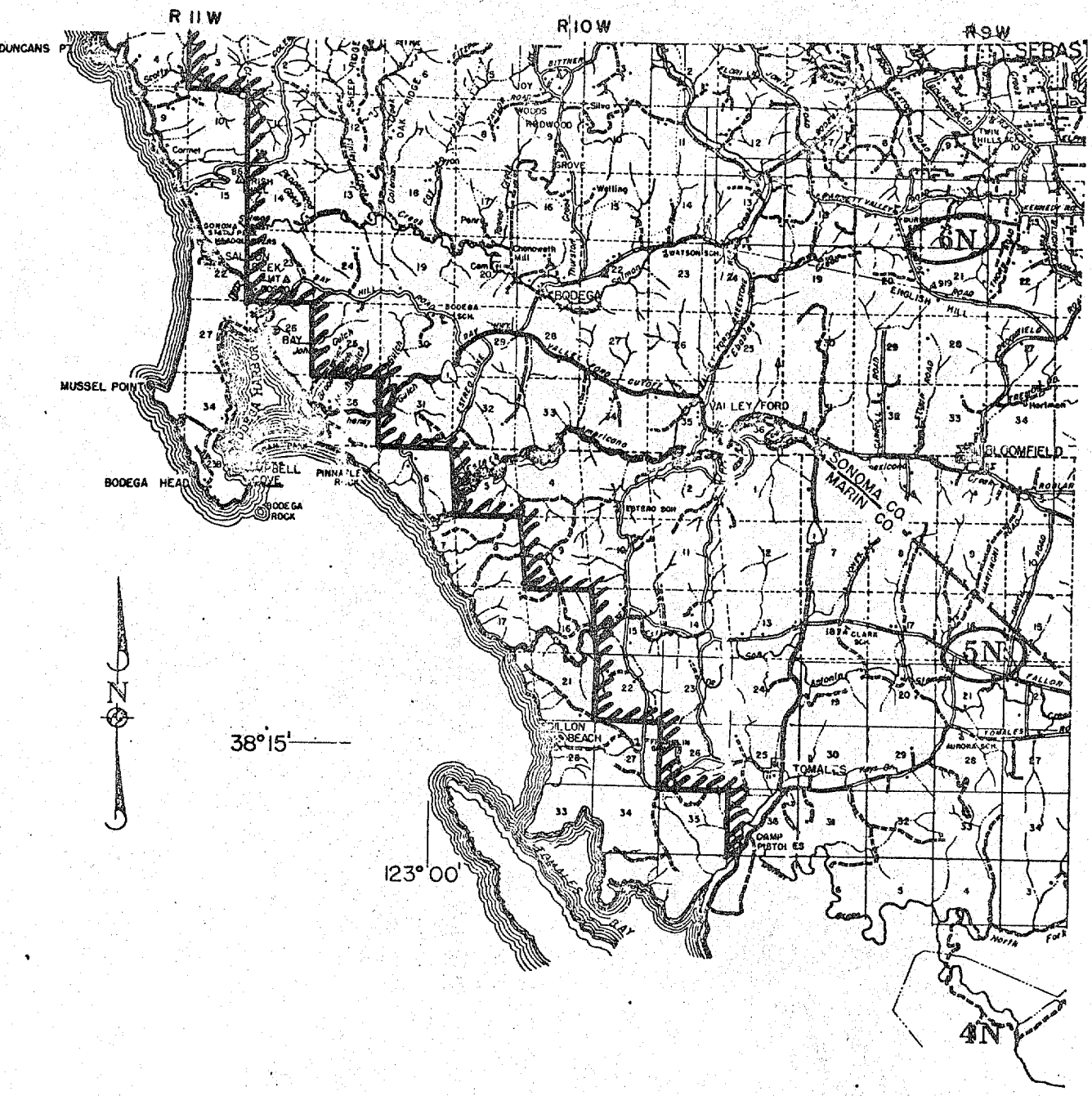
MENDOCINO


R. 15 W.
38°45'
123° 30'
T. 10 N.
T. 9 N.
MENDOCINO CO.
SONOMA CO.
LITTLE RED ROCK
BLACK MTN
GUALALA
BLACK POINT
STEWART POINT
ROCKY POINT
HORSESHOE POINT
ANNAPOLIS
Oak Ridge L.O.
Mendosoma F.F.S.
STEWARTS POINT RANCHERIA
PLANTATION
N
0 1 2 3 4 5
Scale in Miles

SONOMA

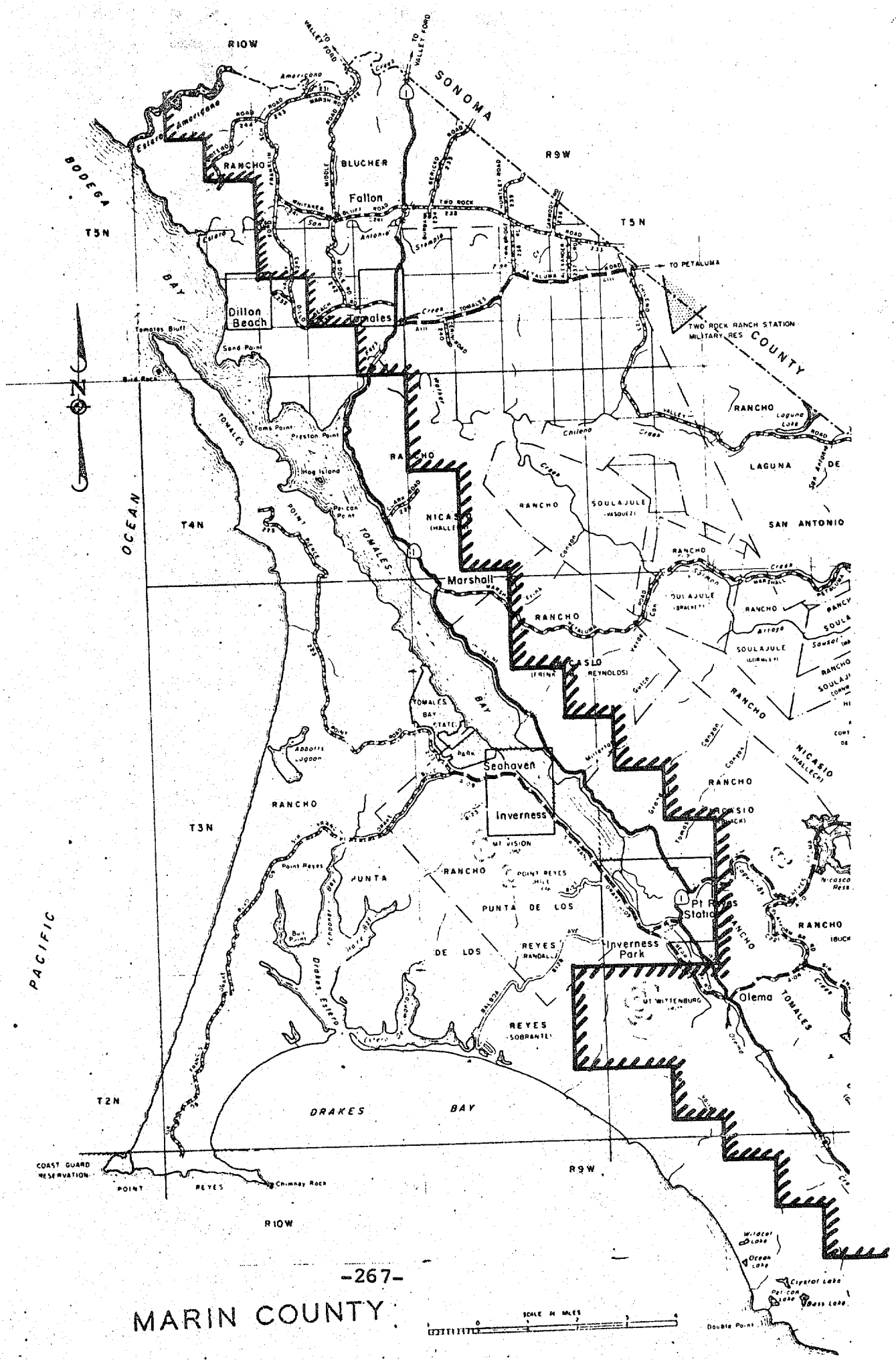

R. 12W
R. 11W.
SALT POINT
OCEAN COVE
STILLWATER COVE
TIMBER COVE
FORT ROSS
SEA VIEW
CREIGHTON RIDGE
MORRISON RIDGE
FOX MTN
CAZADERO
Cazadero EFS
ROSS MTN
BLACK MTN
Block Mtn Camp
GUERNEVILLE
GUERNEWOOD PARK
VACATION BEACH
MONTE RIO
DUNCAN MILLS
FREECOUT FLAT
JENNER
GOAT RK
BLIND BEACH
BRIDGEHAVEN
SHELL BEACH
WRIGHTS BEACH
SUGAR LOAF
7N
38°30'
123° 15'
N
0 1 2 3 4 5
Scale in Miles

SONOMA

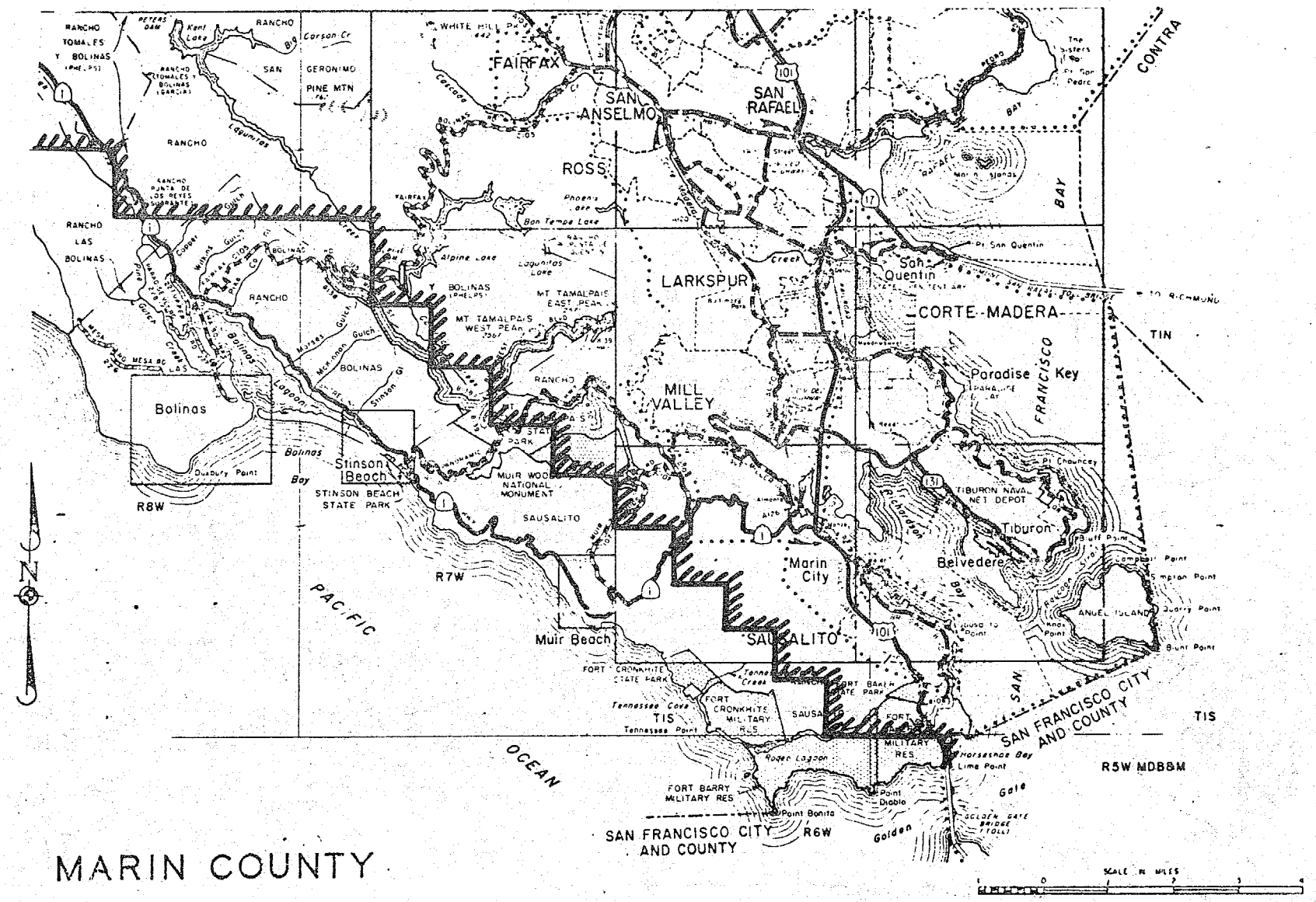


SONOMA

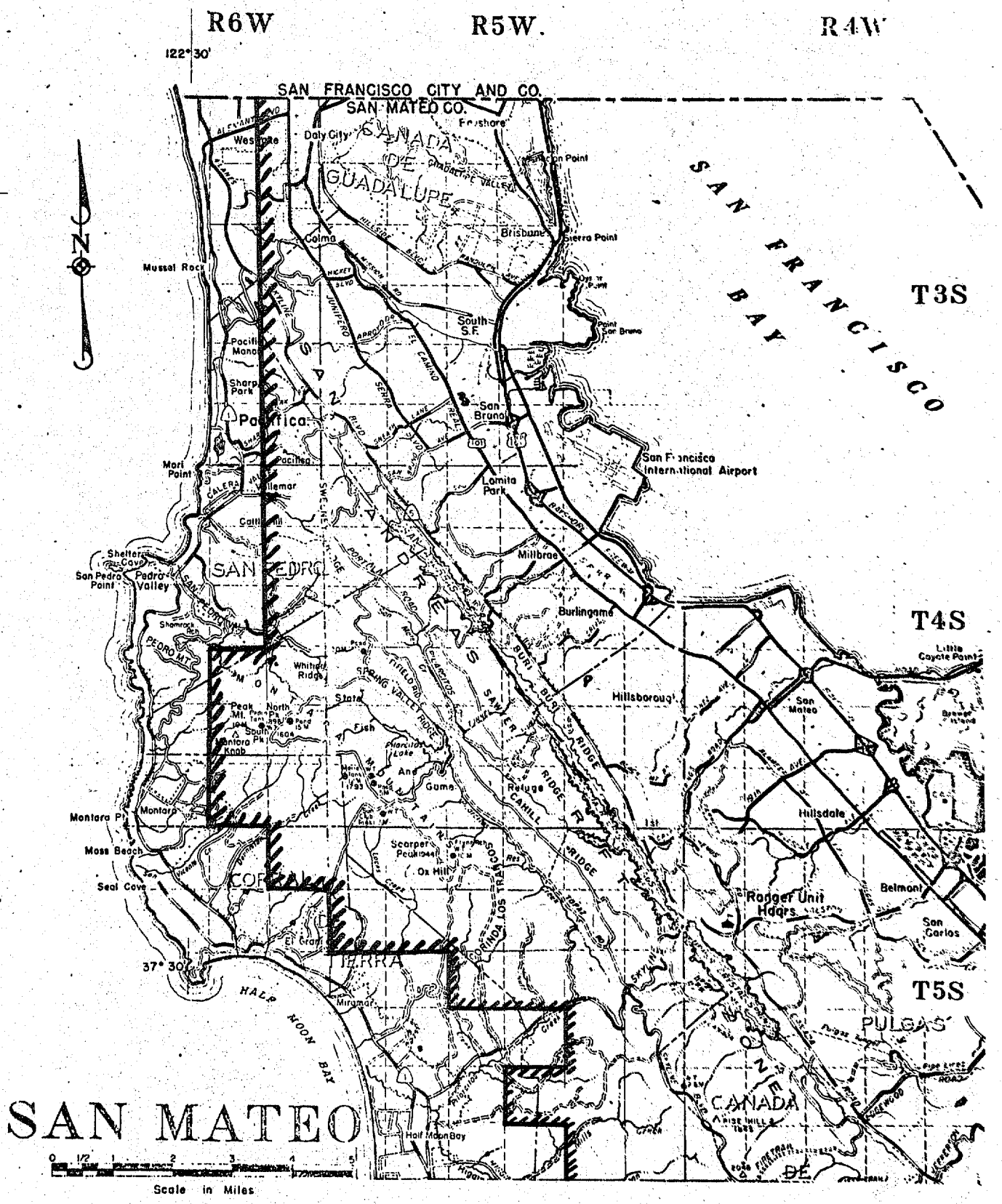
0 1 2 3 4 5
Scale in Miles



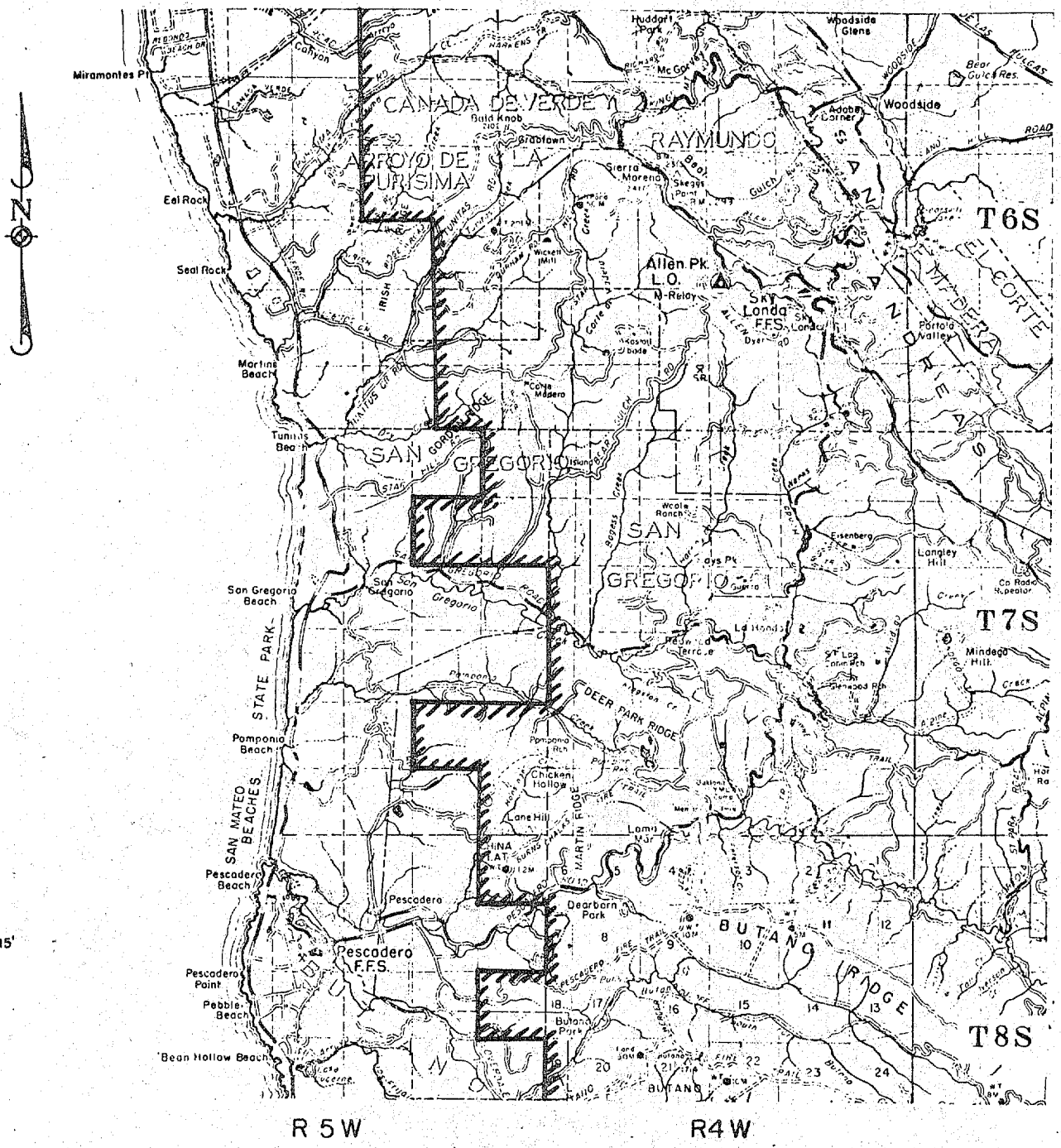
MARIN COUNTY



MARIN COUNTY

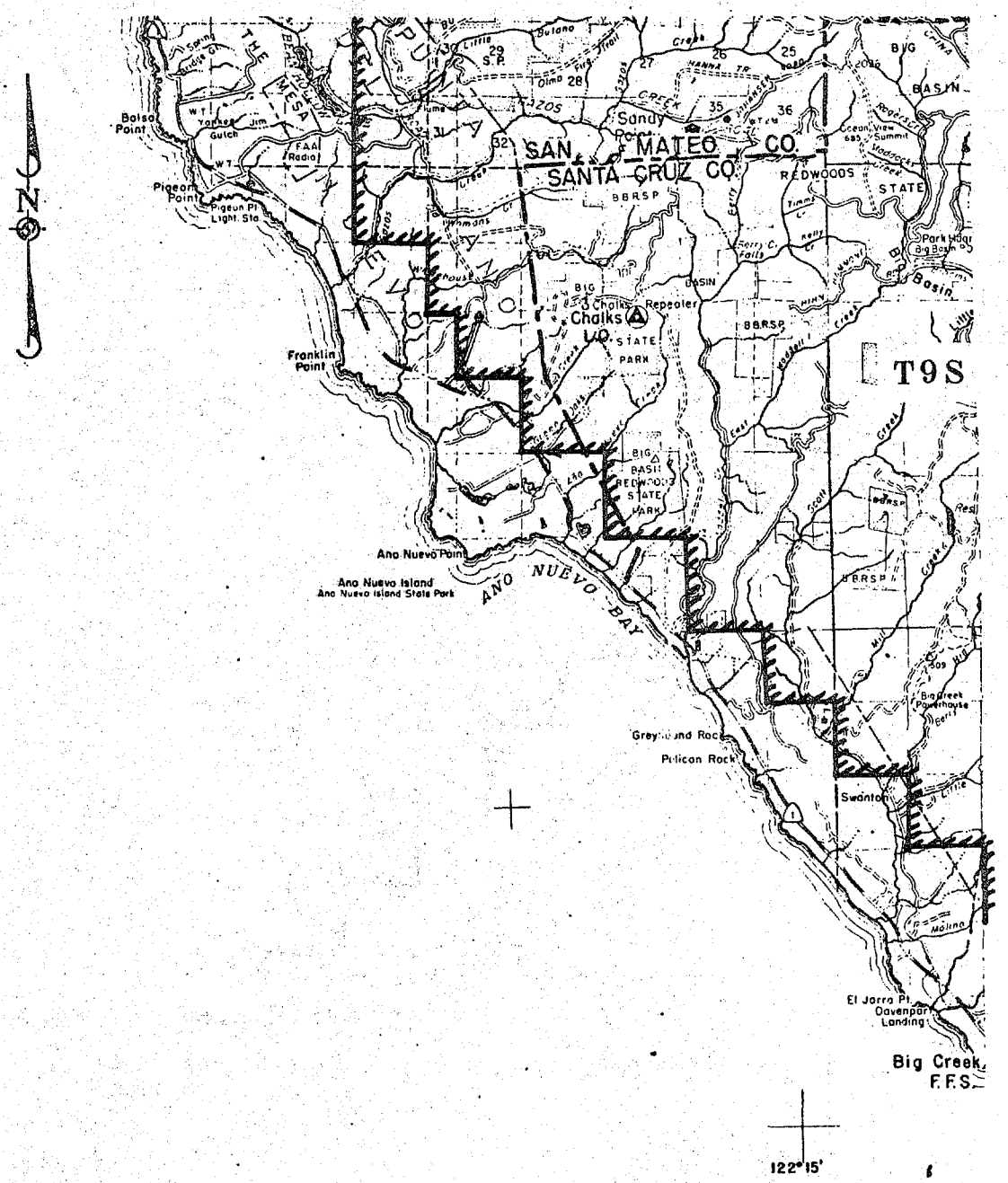

R6W
R5W.
R4W
122° 30'
SAN FRANCISCO CITY AND CO.
SAN MATEO CO.
SAN FRANCISCO BAY
T3S
T4S
T5S
N
Daly City
Westlake
Colma
Brisbane
Sierra Point
South S.F.
Point San Bruno
San Bruno
San Francisco International Airport
Lomita Park
Millbrae
Burlingame
Hillsborough
San Mateo
Hillsdale
Belmont
San Carlos
Ranger Unit Hdqrs.
Pacifica
Pacifica Manor
Sharp Park
Mussel Rock
Mori Point
Shelter Cove
San Pedro Point
Pedro Valley
Shamrock Rch.
Whitton Ridge
Peak Mt.
North Pk.
South Pk.
Montara Knob
Montara Pt.
Montara
Moss Beach
Seal Cove
Scarper Peak
Ox Hill
Miramar
Half Moon Bay
HALF MOON BAY
37° 30'
Little Coyote Point
Scale in Miles
0 1/2 1 2 3 4 5

SAN MATEO



SAN MATEO

Scale in Miles

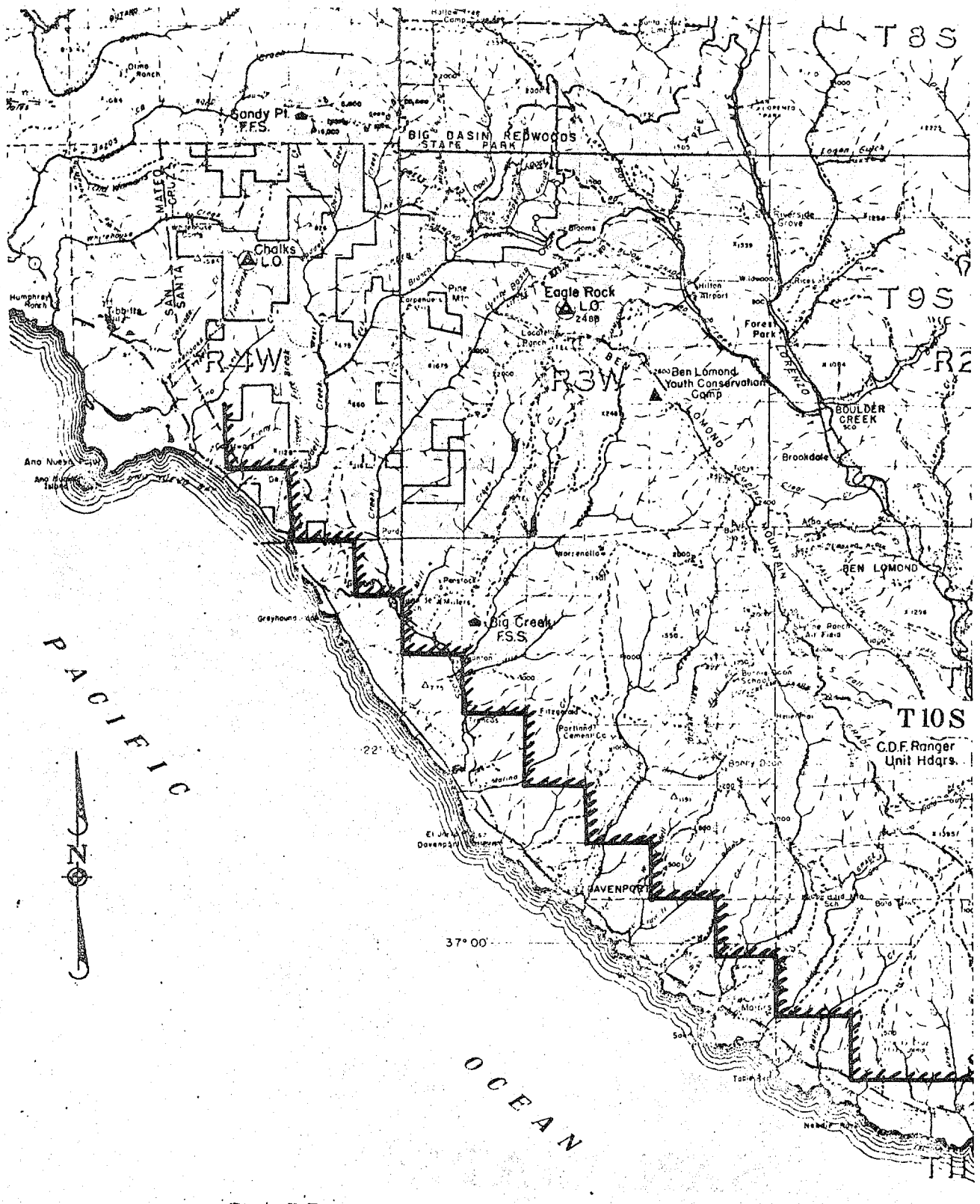


R5W R4W

SAN MATEO

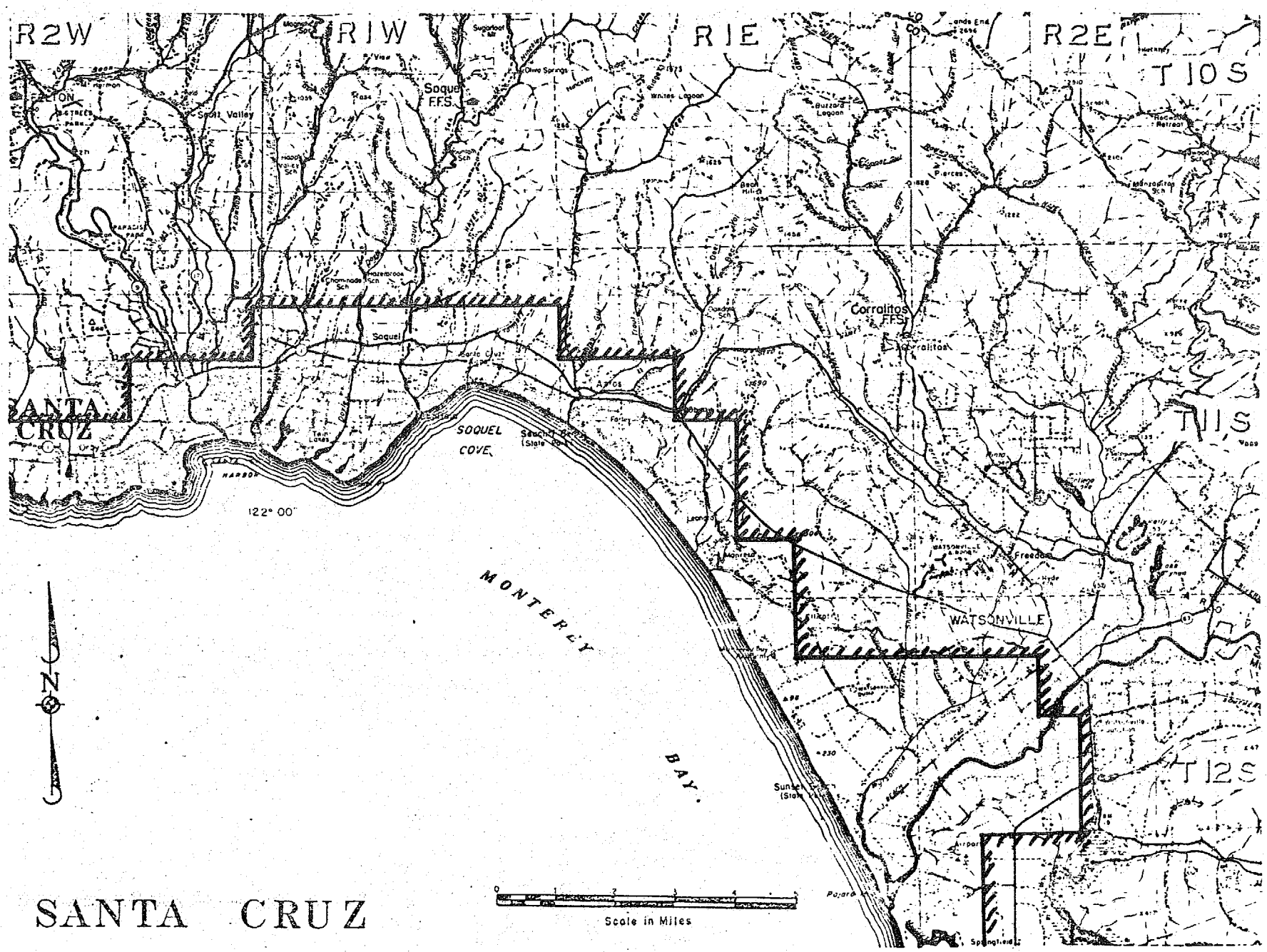
0 1/2 1 2 3 4 5

Scale in Miles



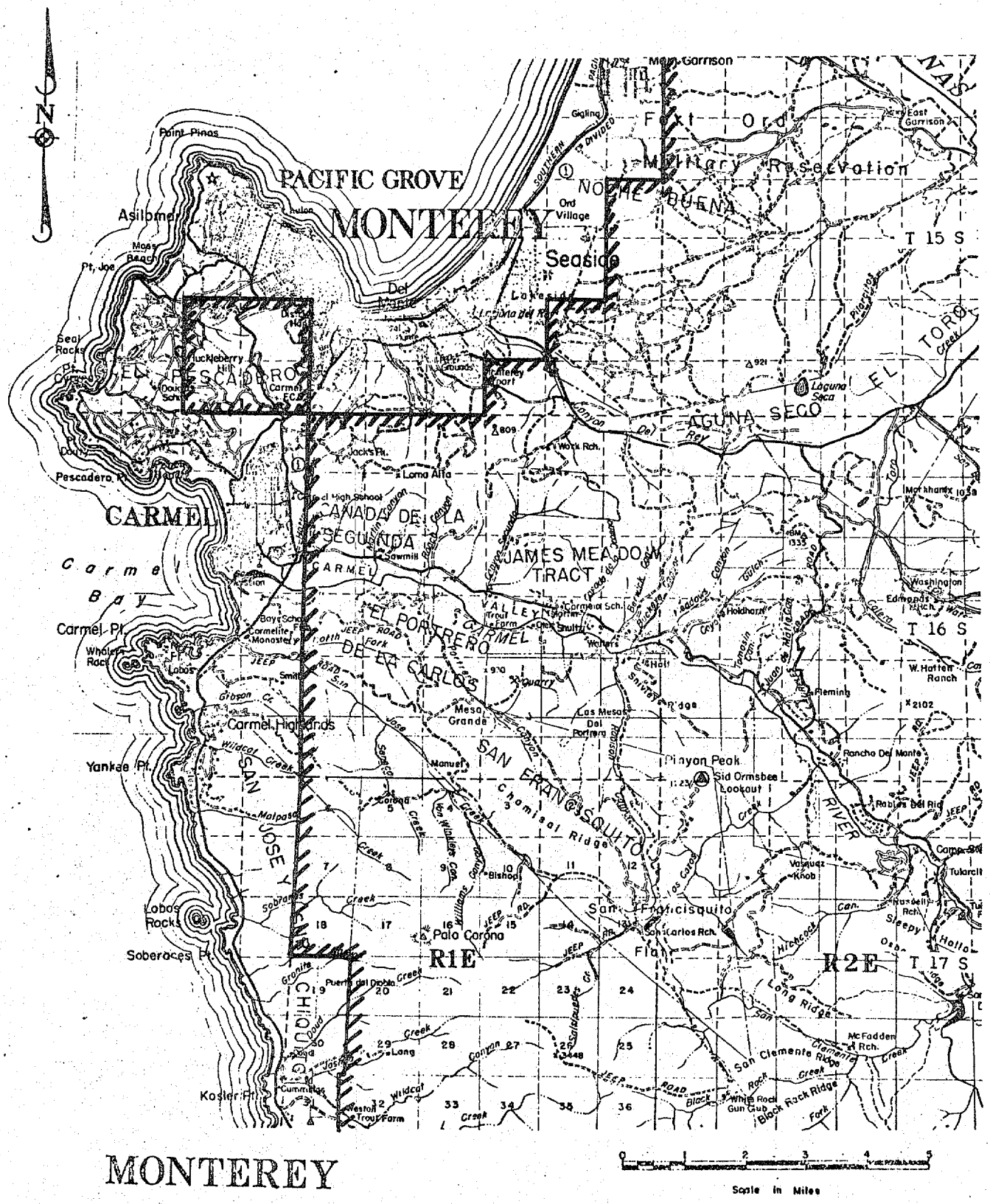
SANTA CRUZ

Scale in Miles

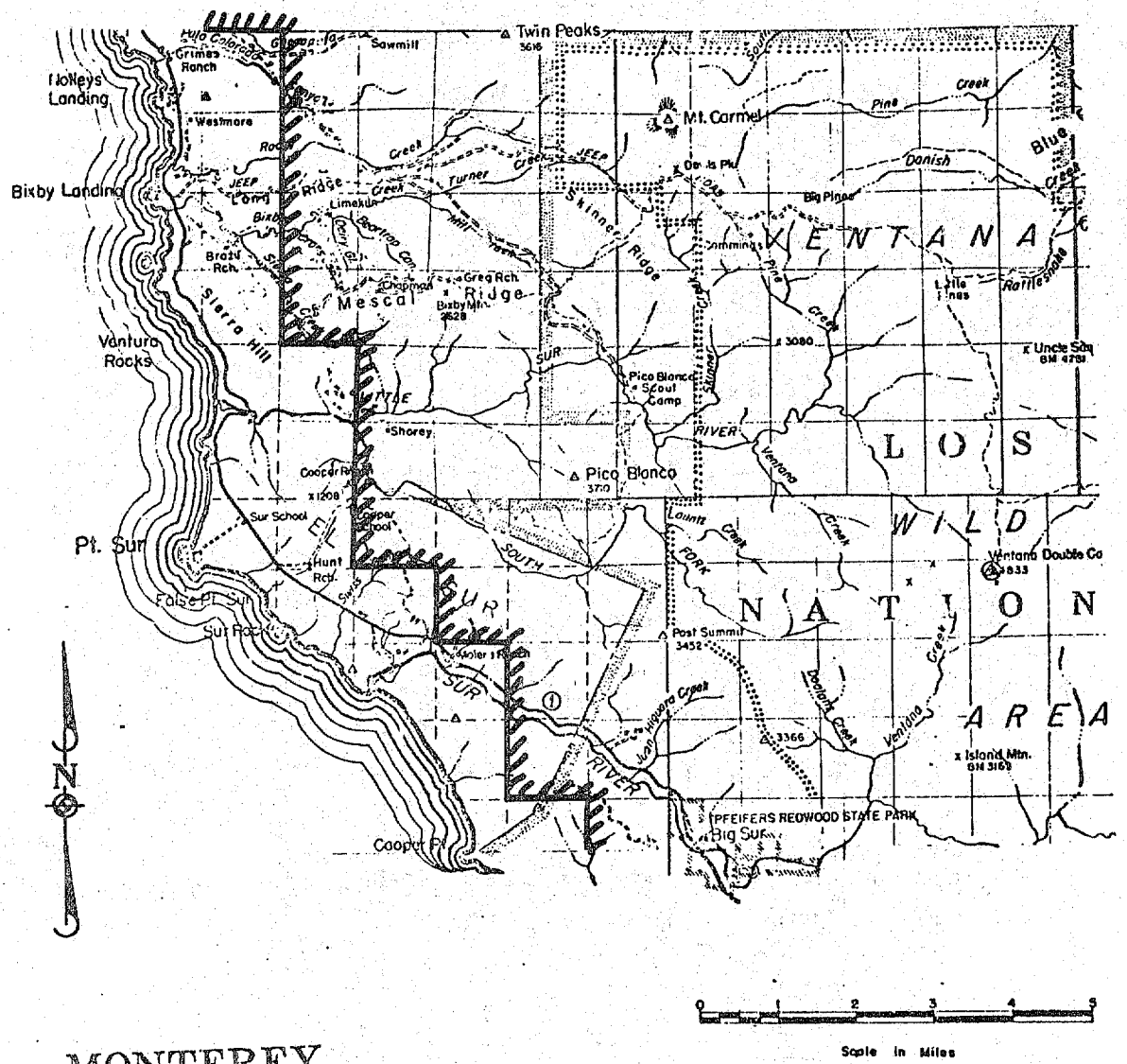

R2W
R1W
R1E
R2E
T10S
T11S
T12S
Soquel Valley
Soquel F.F.S.
Olive Springs
Buzzard Lagoon
Corralitos F.F.S.
Corralitos
Soquel
SANTA CRUZ
SOQUEL COVE
HARBOR
122° 00'
MONTEREY BAY
WATSONVILLE
Freedom
Pajaro
Springfield
N
Scale in Miles

SANTA CRUZ

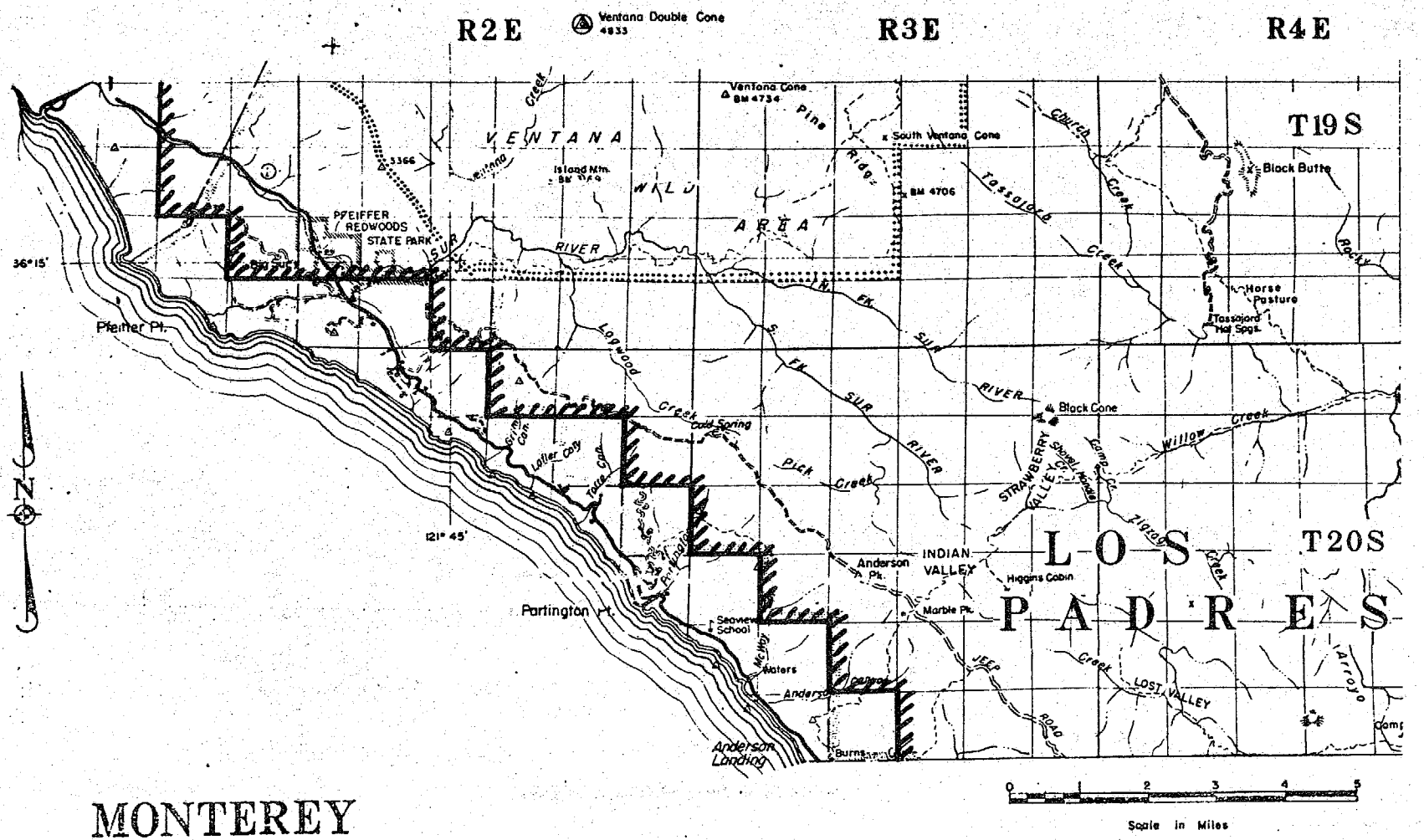
R 2 E
R 3 E
T 12 S
T 13 S
T 14 S
WATSONVILLE
SALINAS
MONTEREY
Castroville
Marina
Santa Rita
Aromas
Dunbarton
Elkhorn
Prunedale
Castroville FCS
Del Monte Junction
Nashua
Neponset
Lapis
Burdin
Coopers
Graves
Airport
Espinosa Lake
Kaiser Plant
Natividad
Lagunita Lake
Sugarloaf Peak
Pinto Lake
Kelly Lake
Lake Tynan
Freedom
Watsonville Airport
Watsonville Junction
Country Club
Trafton
Blohm
Johnson
Hutchings
Fowler
Pajaro Gap
Soda Lake
Anzar Lake
The Rocks
Pinecate Pk.
Hay Barn
Tucker
Strawberry Canyon
Long Canyon
Paradise Canyon
Archer
Mesa Landing Steam Plant
Mesa Landing
Mulligan Hill
Rincon Sch.
Lagunita Sch.
Salinas Rural Fire Station No. 2
Salinas Rural Fire Station No. 1
Scale in Miles


N
PACIFIC GROVE
MONTEREY
Seaside
Fort Ord
Military Reservation
NOCHE BUENA
Ord Village
Point Pinos
Asilomar
Pt. Joe
Seal Rocks
EL PESCADERO
Pescadero Pt.
CARMEL
Carmel Bay
Carmel Pt.
Whaler Rock
Carmel Highlands
Yankee Pt.
Lobos Rocks
Soberanes Pt.
Kosler Pt.
CANADA DE LA SEGUNDA
JAMES MEADOW TRACT
EL PORTRERO DE LA CARLOS
SAN FRANCISQUITO
SAN JOSE Y SAN CHIQUITO
Chamisal Ridge
Pinyon Peak
Sid Ormsbee Lookout
Mesa Grande
Palo Corona
San Francisquito Flat
Laguna Seca
LAGUNA SECO
EL TORO
Canyon Del Rey
Loma Alta
Jack's Pt.
Carmel High School
Carmel Valley
Carmelite Monastery
Bay School
Lobos
Smith
Wildcat Creek
Malpaso Creek
Sobranes Creek
Granite Creek
Long Ridge
San Clemente Ridge
Black Rock Ridge
Rancho Del Monte
Rabies Del Rio
Vasquez Knob
Tularcito
Sleepy Hollow
Washington
Edmonds Rch.
W. Hatten Ranch
Fleming
Holdhorn
Walters
Holt
Snivley Ridge
Las Mesas Del Portrero
Manuel
Bishop
Puerta del Diablo
Long
Cummings
Weston Trout Farm
Cuyama Rd.
Hichcock Can.
Sleepy Hollow
McFadden Rch.
Black Rock Gun Club
T 15 S
T 16 S
T 17 S
R1E
R2E
Scale in Miles

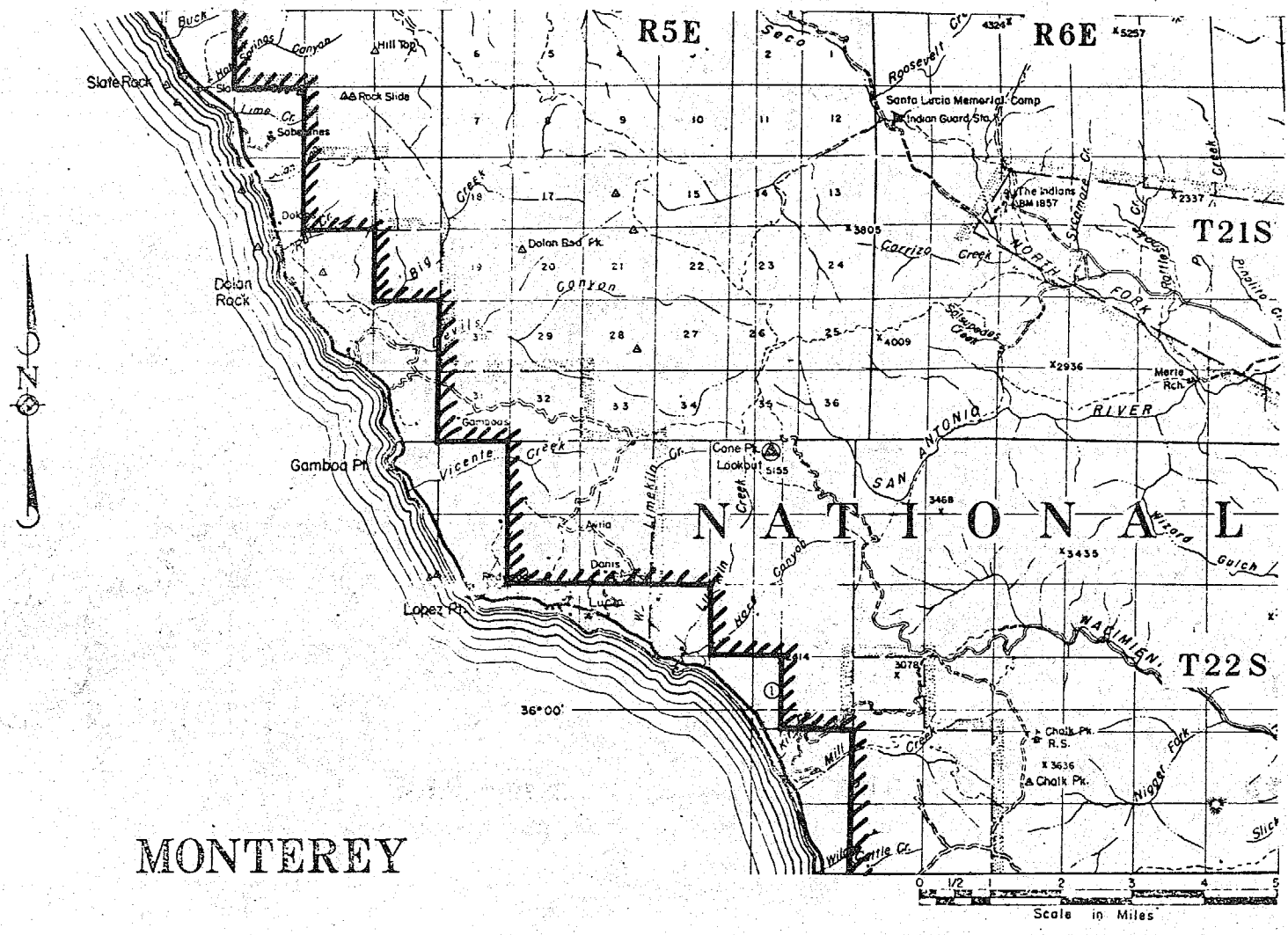
MONTEREY

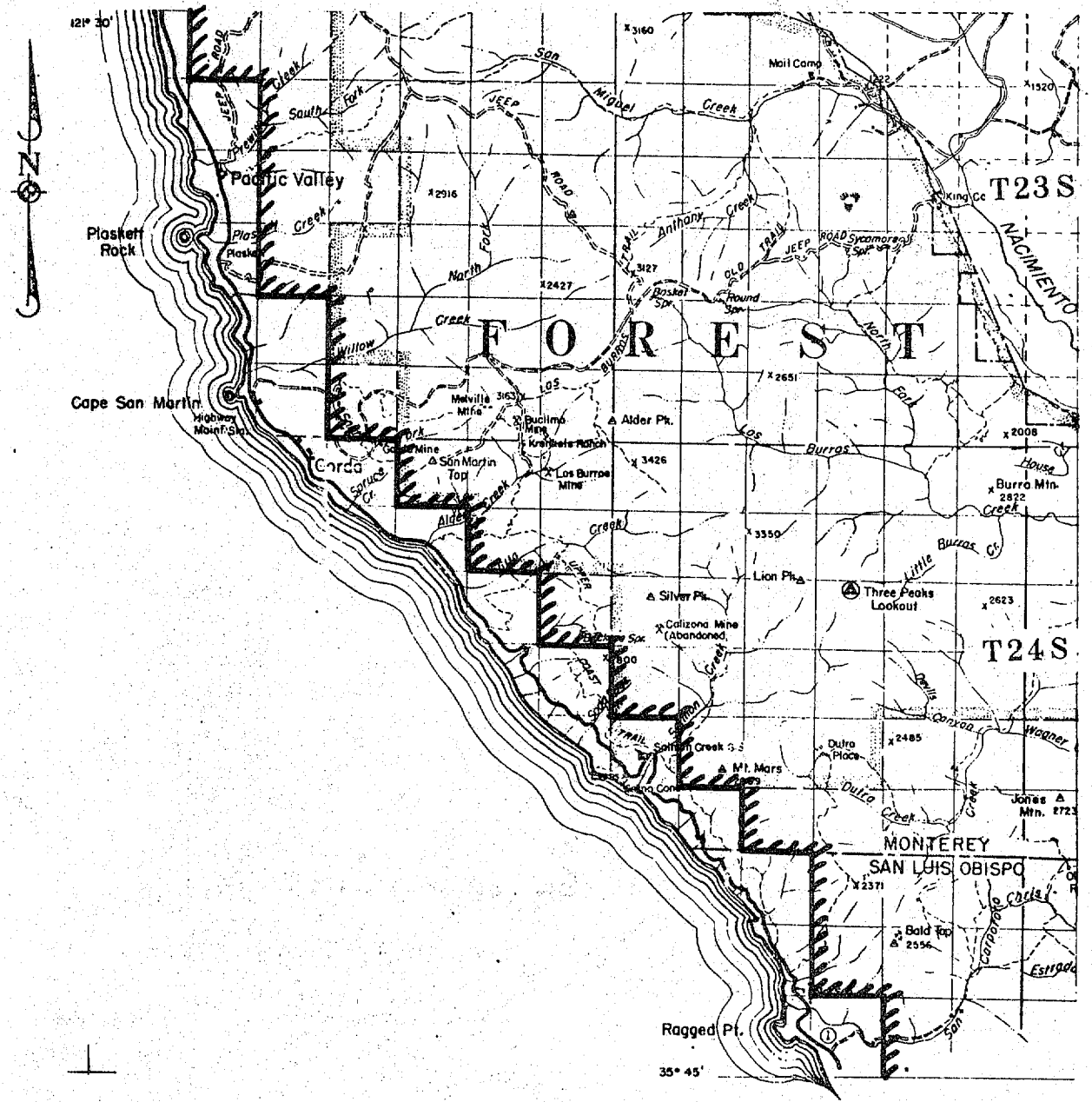

Twin Peaks
3616
Sawmill
Grimes Ranch
Nolleys Landing
Westmore
Bixby Landing
Mt. Carmel
Pine Creek
Danish
Blue Creek
Big Pines
Turner Creek
Limekiln
Skinner Ridge
Mesca Ridge
Greg Rch.
Bixby Mtn.
2628
Sierra Hill
Ventura Rocks
Pico Blanco Scout Camp
Shorey
Pico Blanco
3710
Cooper Rch.
Sur School
Pt. Sur
Hunt Rch.
False Pt. Sur
Sur Rock
Post Summit
3452
Juan Higuera Creek
Doolans Creek
Ventana Creek
Island Mtn.
Rattlesnake
Little Pines
Uncle Sam
Ventana Double Co
PFEIFERS REDWOOD STATE PARK
Big Sur
Cooper Pt.
VENTANA
LOS
WILD
NATION
AREA
N
0 1 2 3 4 5
Scale in Miles

MONTEREY


R2E
R3E
R4E
T19S
T20S
Ventana Double Cone
4833
Ventana Cone
BM 4734
South Ventana Cone
BM 4706
Pine Ridge
VENTANA
WILD
AREA
Island Mtn.
PFEIFFER
REDWOODS
STATE PARK
SUR
RIVER
N. FK. SUR RIVER
S. FK. SUR RIVER
Church Creek
Tassajara Creek
Black Butte
Horse Pasture
Tassajara Hot Spgs.
Rocky
Black Cone
Willow Creek
Logwood Creek
Cold Spring
Pick Creek
STRAWBERRY VALLEY
Shovel Handle Cr.
Camp Cr.
Zigzag Creek
Lofler Cnty
Torre Can.
Grim Can.
Pfeiffer Pt.
Partington Pt.
Seaview School
McWay
Waters
Anderson Landing
Burns
Anderson Pk.
INDIAN VALLEY
Higgins Cabin
Marble Pk.
JEEP ROAD
Creek
LOST VALLEY
Arroyo
LOS PADRES
36°15'
121°45'
N
0 1 2 3 4 5
Scale in Miles

MONTEREY

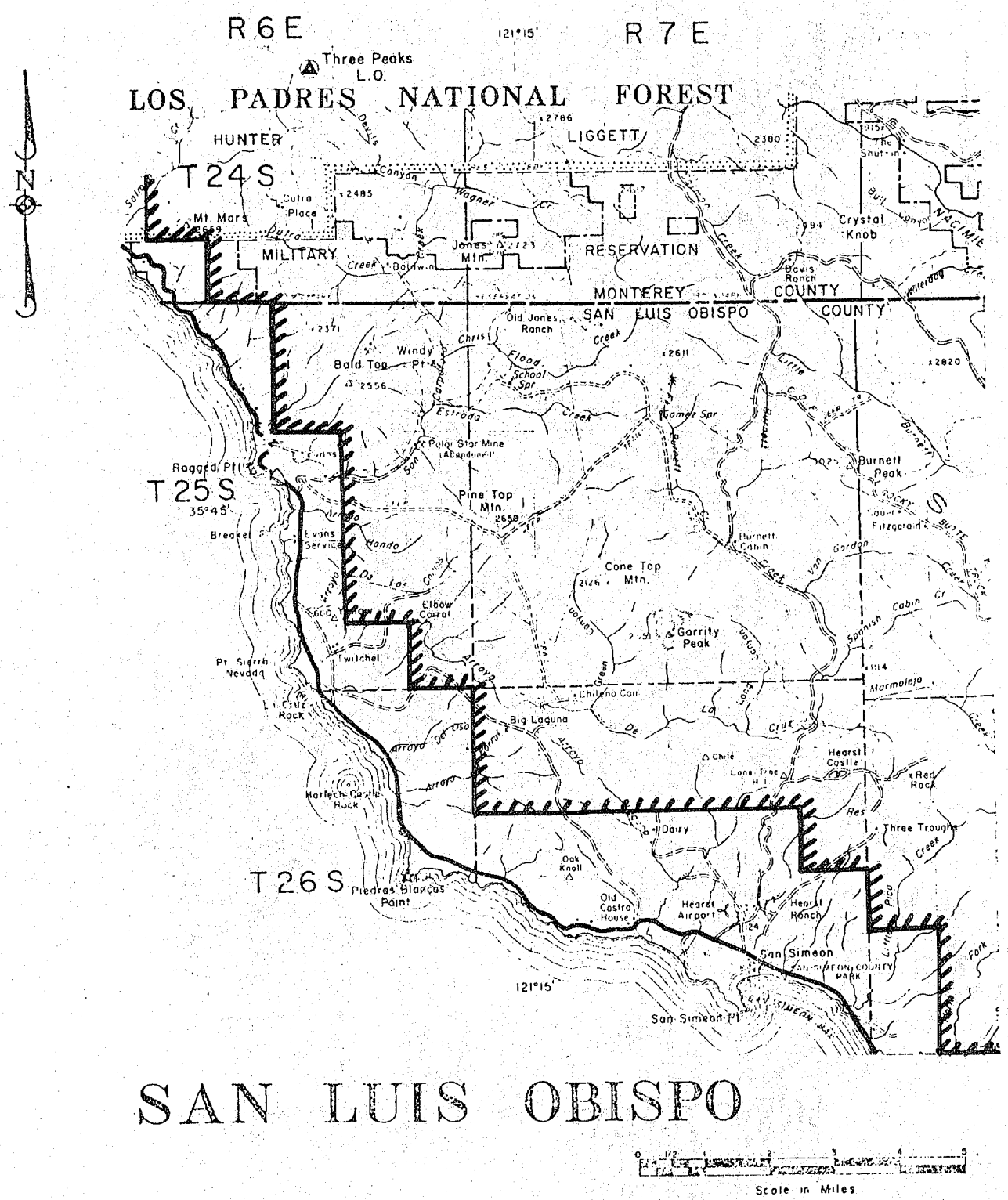

R5E
R6E
T21S
T22S
NATIONAL
MONTEREY
Slate Rock
Dolan Rock
Gamboa Pt.
Lopez Pt.
Hill Top
Rock Slide
Sabelines
Dolan Bad Pk.
Santa Lucia Memorial Camp
Indian Guard Sta.
The Indians
BM 1857
Cone Pk.
Lookout
Avila
Danis
Lucia
Merle Rch.
Chalk Pk.
R.S.
Chalk Pk.
Big Creek
Devils Canyon
Vicente Creek
Limekiln Cr.
Limekiln Creek
Hare Canyon
Mill Creek
Wild Cattle Cr.
Carrizo Creek
Salsipuedes Creek
Sycamore Cr.
Rattlesnake Cr.
Pinolito Cr.
Roosevelt Cr.
Seco
Slick
Nigger Fork
Wizard Gulch
NORTH FORK
SAN ANTONIO RIVER
WACIMIEN
36°00'
0 1/2 1 2 3 4 5
Scale in Miles
N

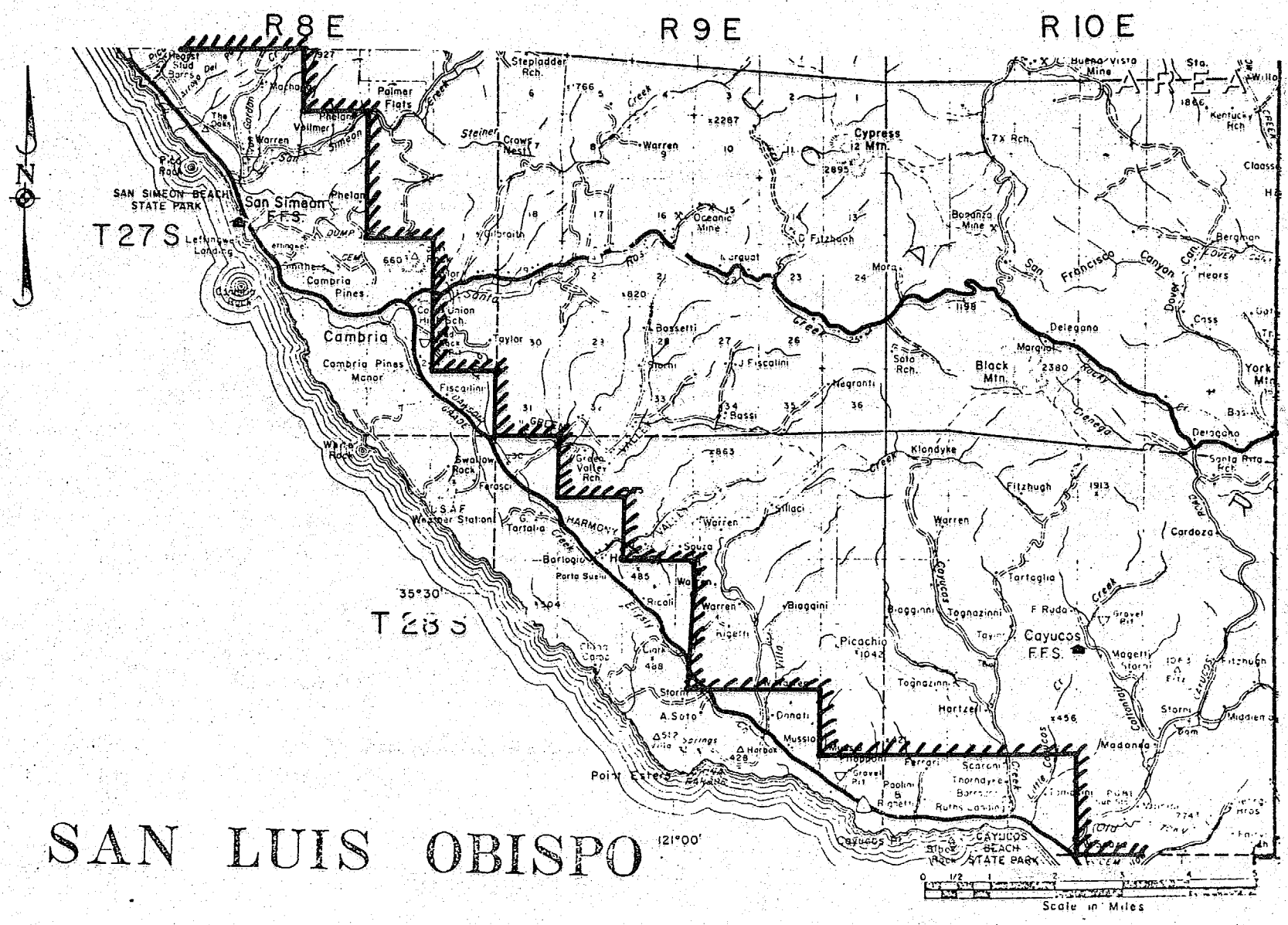


R5E R6E

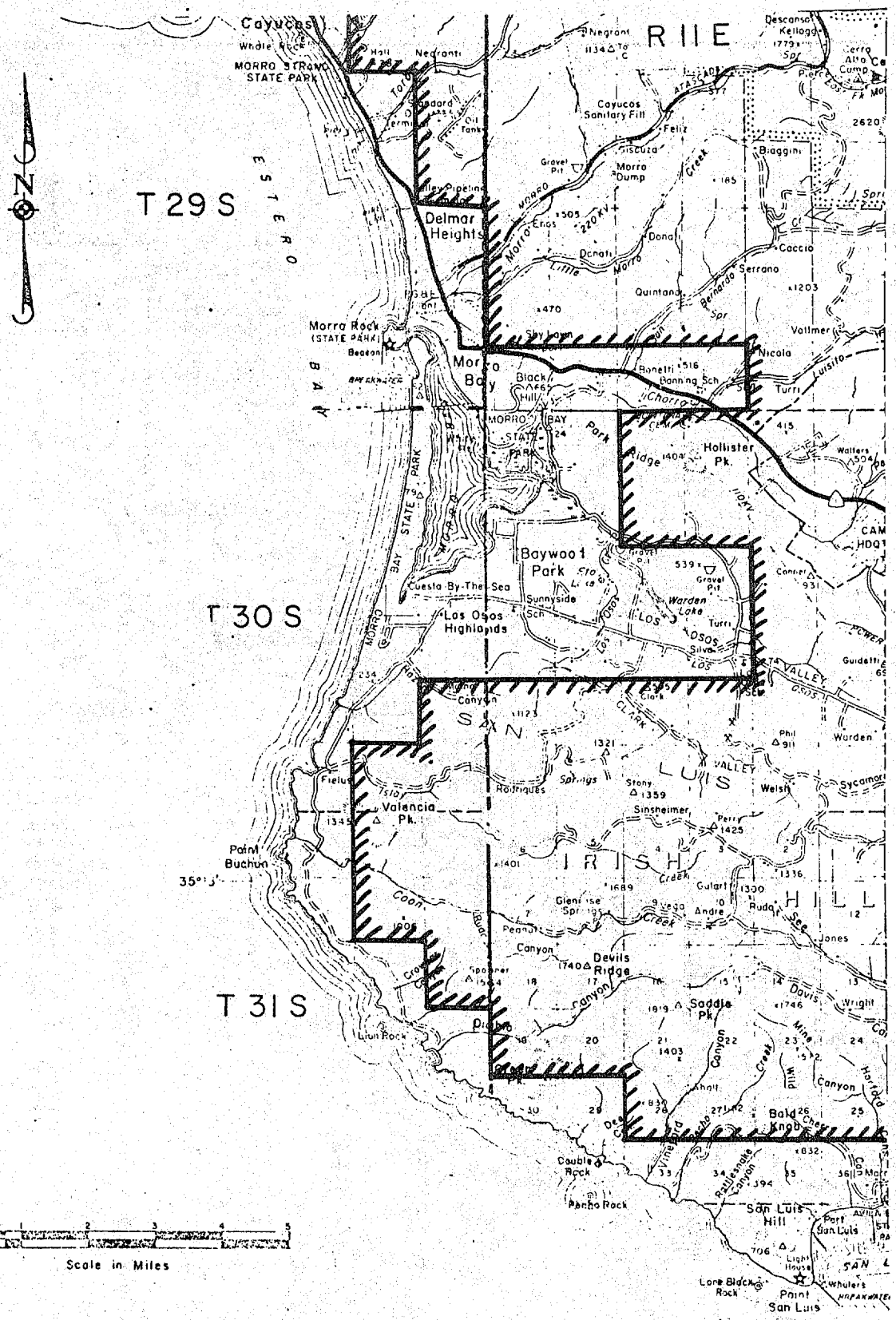
MONTEREY

0 1 2 3 4 5
Scale in Miles

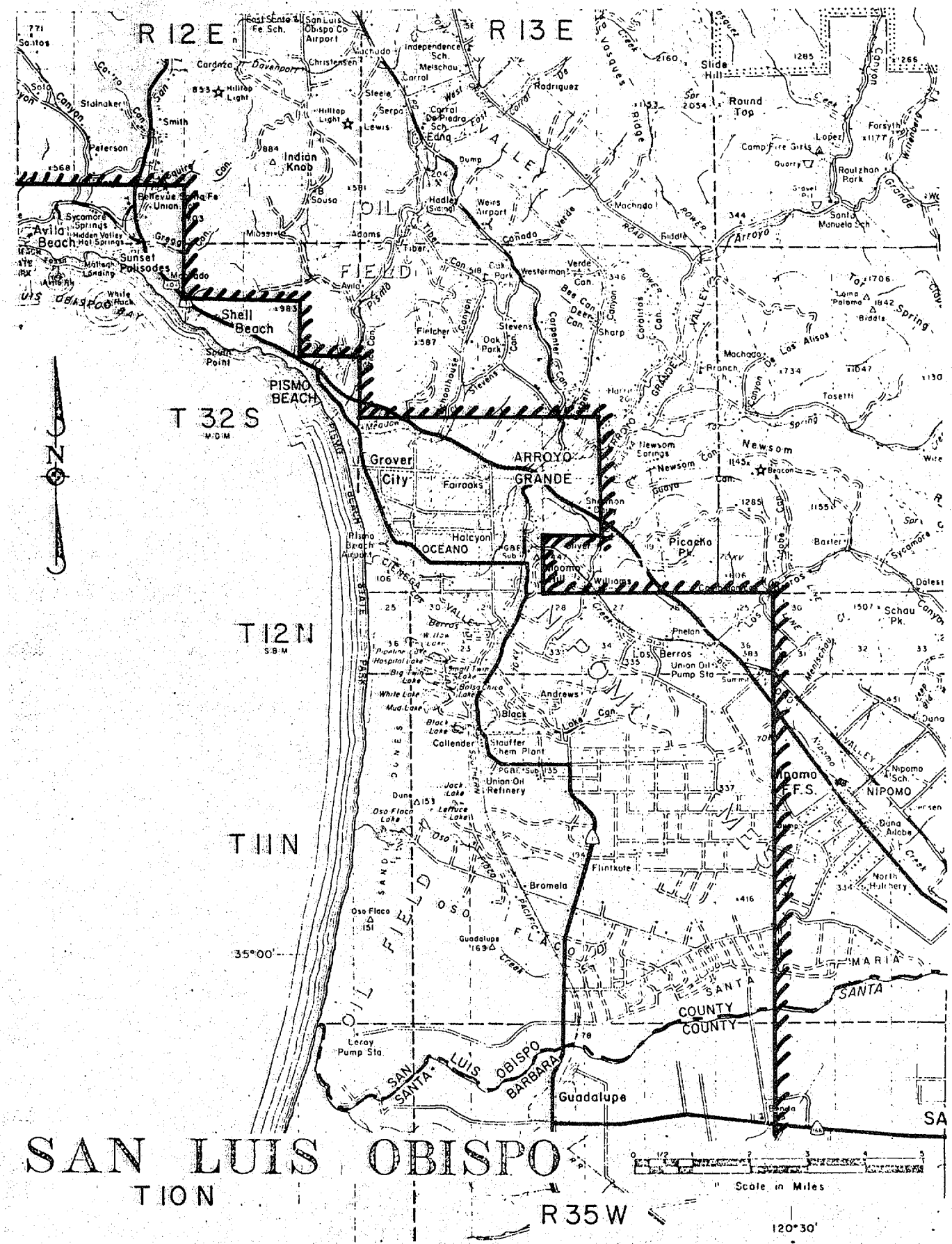

R6E
R7E
121°15'
Three Peaks L.O.
LOS PADRES NATIONAL FOREST
HUNTER
LIGGETT
T24S
Mt. Mars
MILITARY
RESERVATION
Jones Mtn.
Crystal Knob
MONTEREY COUNTY
SAN LUIS OBISPO COUNTY
Old Jones Ranch
Bald Top
Windy Pt.
Ragged Pt.
T25S
35°45'
Pine Top Mtn.
Burnett Peak
Cone Top Mtn.
Garrity Peak
Elbow Corral
Twitchel
Pt. Sierra Nevada
Big Laguna
Hearst Castle
Red Rock
Three Troughs
Dairy
Oak Knoll
T26S
Piedras Blancas Point
Old Castro House
Hearst Airport
Hearst Ranch
San Simeon
SAN SIMEON COUNTY PARK
San Simeon Pt.
121°15'
SAN LUIS OBISPO
Scale in Miles

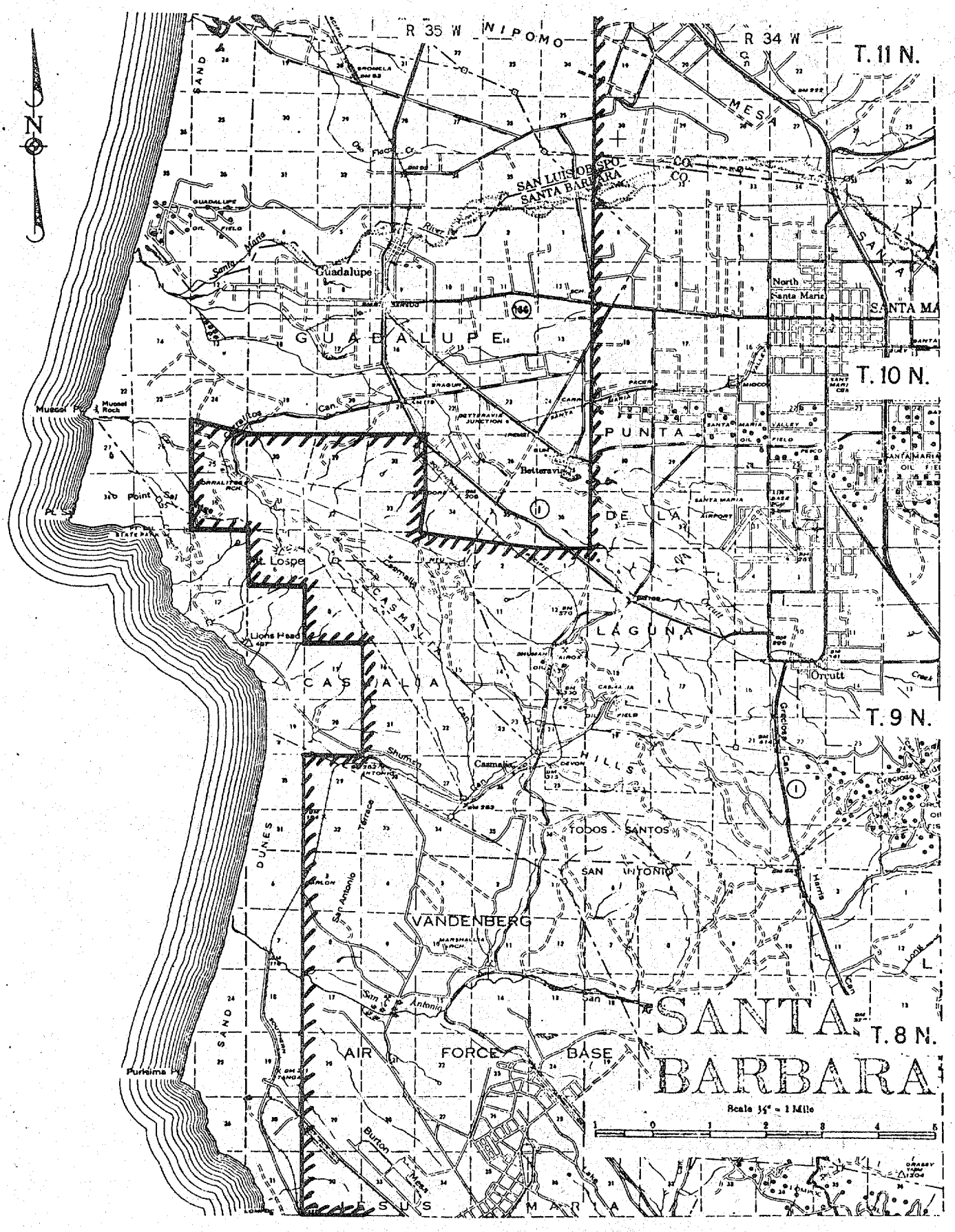


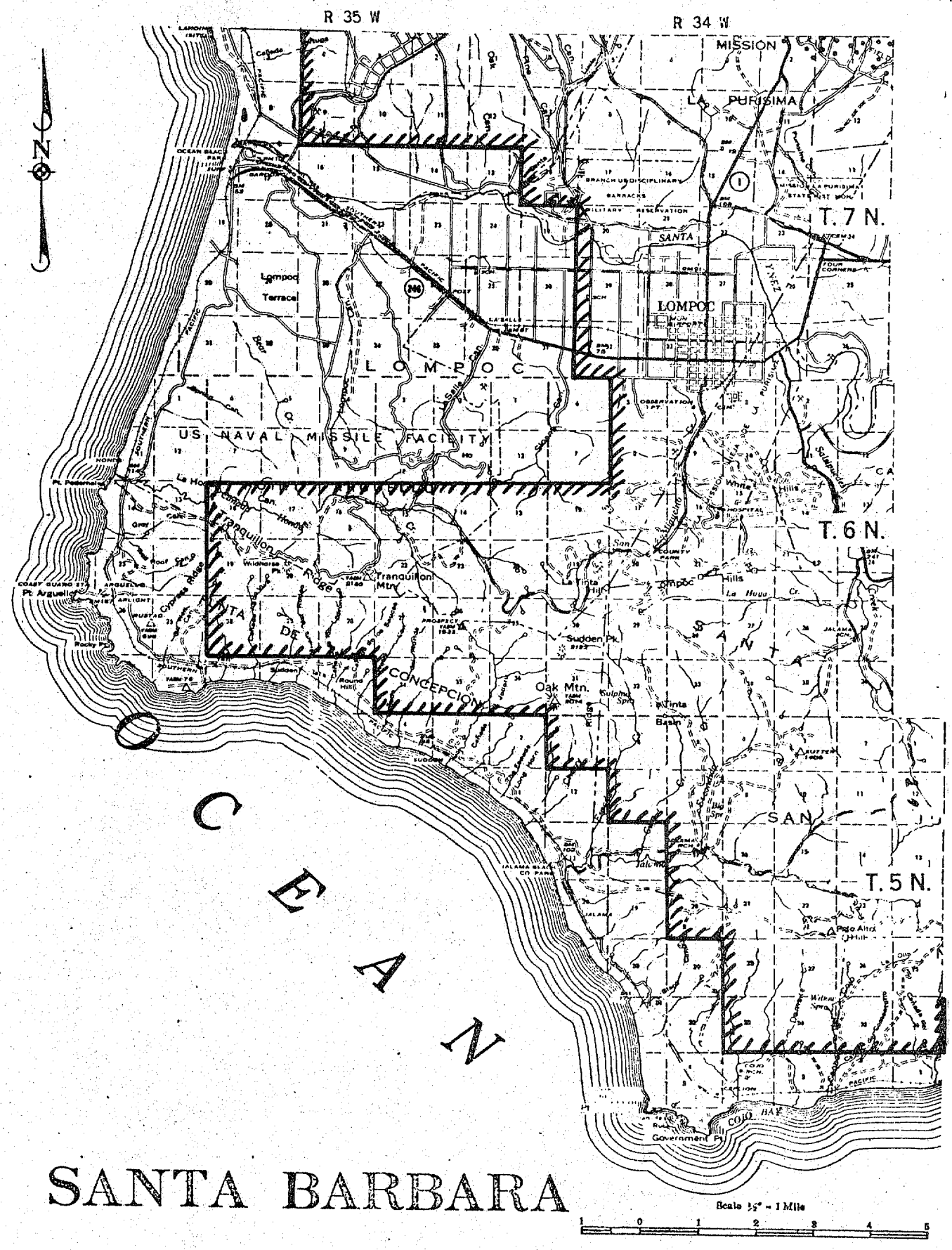
SAN LUIS OBISPO



SAN LUIS OBISPO

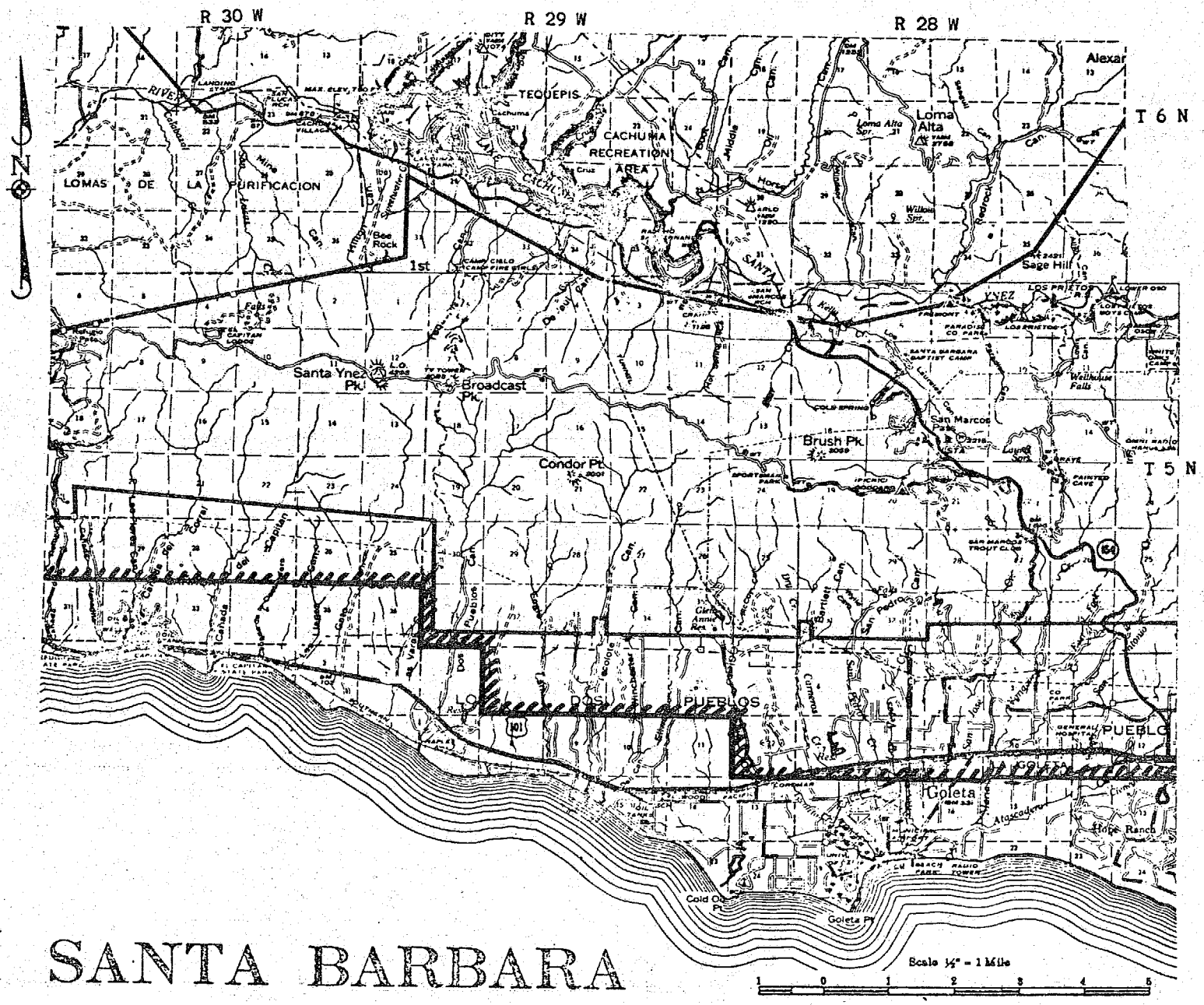

R 12 E
R 13 E
T 32 S
T 12 N
T 11 N
35°00'
120°30'
R 35 W
Shell Beach
PISMO BEACH
Grover City
ARROYO GRANDE
OCEANO
Nipomo F.S.
NIPOMO
Guadalupe
SAN LUIS OBISPO
SANTA BARBARA
SANTA MARIA
Scale in Miles


R 35 W
NIPOMO
R 34 W
T. 11 N.
MESA
SAN LUIS OBISPO CO.
SANTA BARBARA CO.
Guadalupe
GUADALUPE
North Santa Maria
SANTA MA
T. 10 N.
PUNTA
DE LA
LAGUNA
Betteravia
Mt. Lospe
Lions Head
CASMALIA
Orcutt
T. 9 N.
Casmalia
HILLS
TODOS SANTOS
SAN ANTONIO
VANDENBERG
AIR FORCE BASE
T. 8 N.
SANTA BARBARA
Scale 1/2" = 1 Mile
Purisima Pt.
Mussel Rock
Point Sal
SAND DUNES
JESUS MARIA

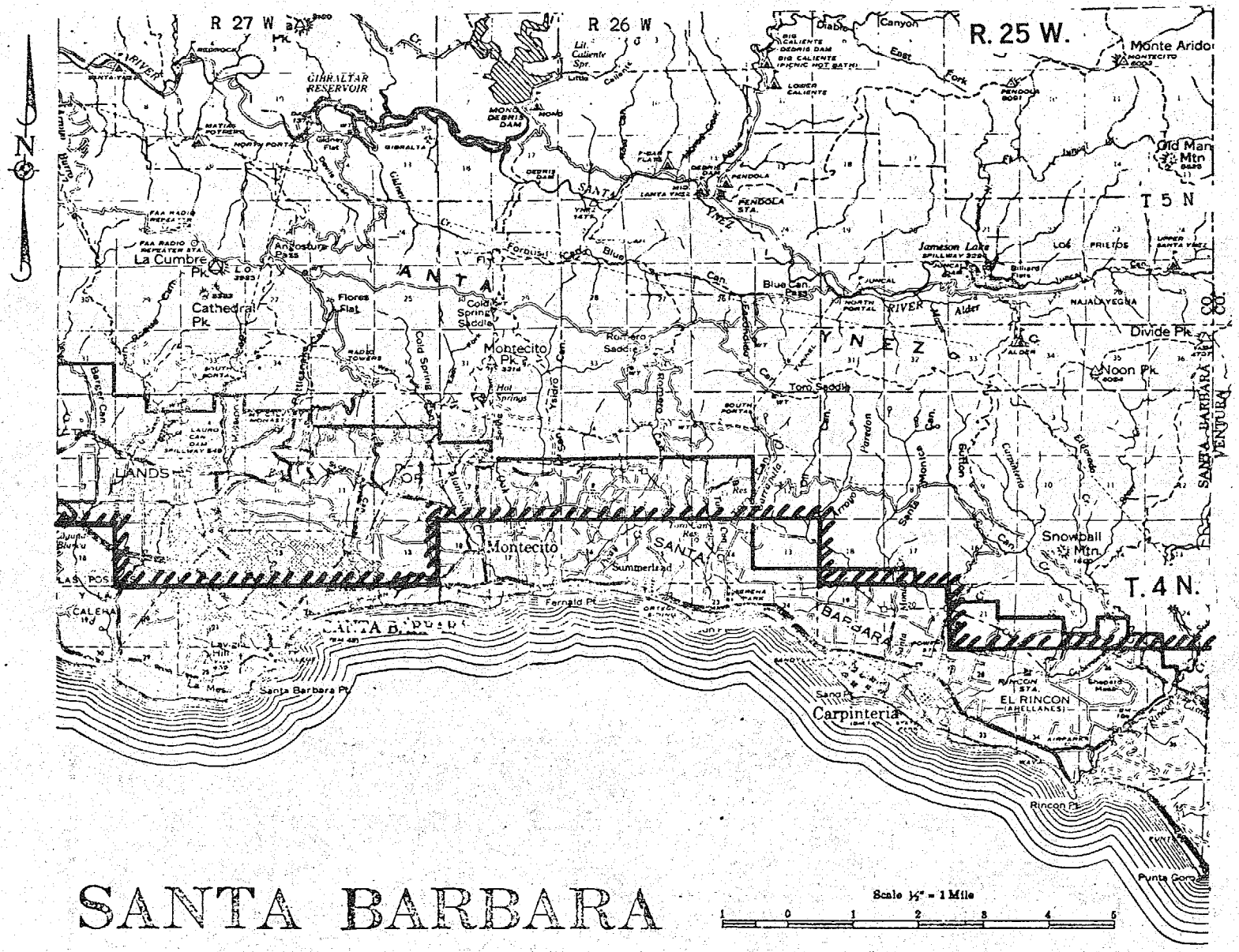


SANTA BARBARA

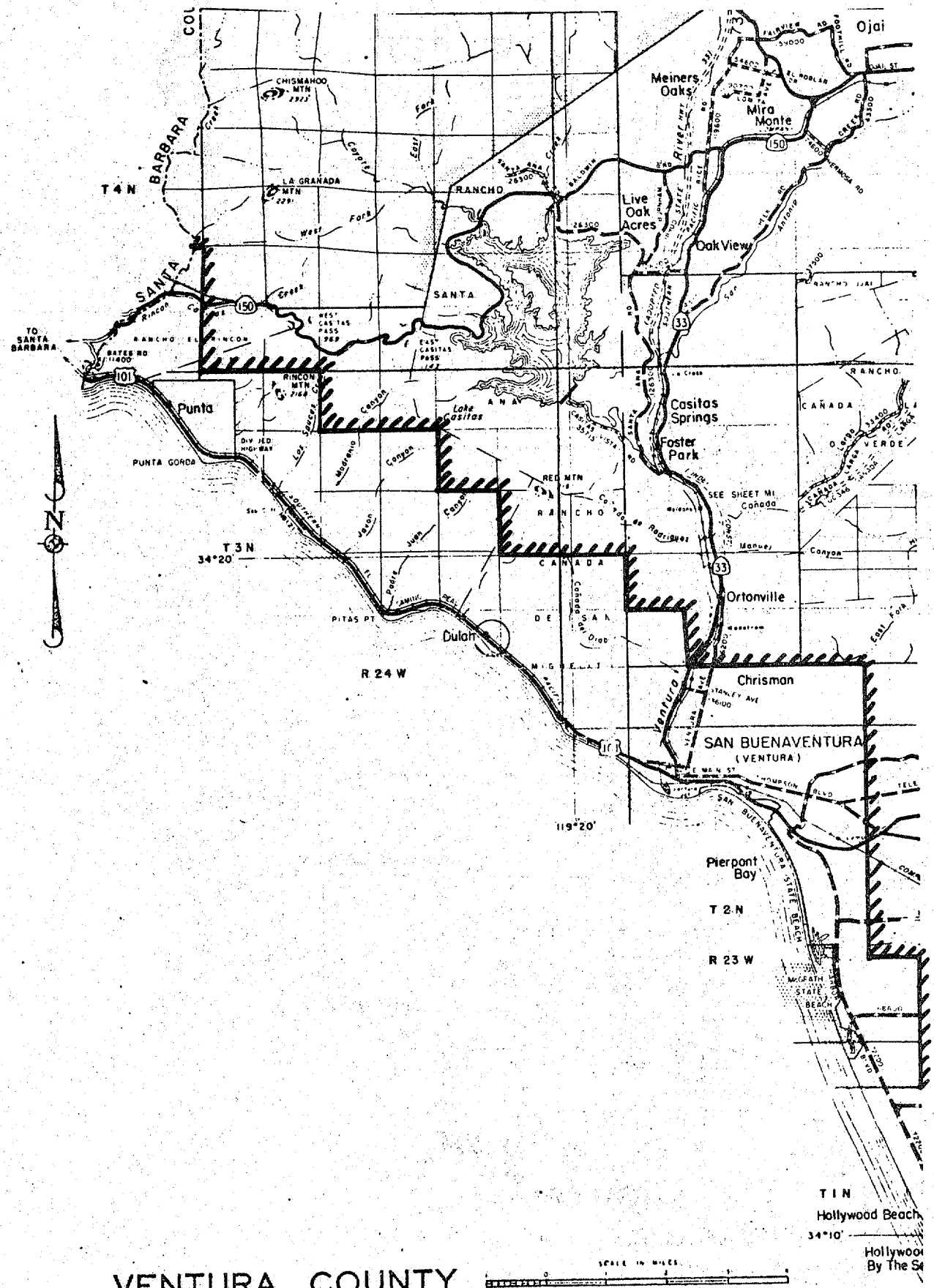
R 33 W
R 32 W
R 31 W
T 6 N
T 5 N
N
SANTA ROSA
SANTA ROSA HILLS
NOJOQUI
MOUNTAINS
YNEZ
LAS CRUCES
Nojoqui Summit
Nojoqui Falls
Monjas Spr.
Bald Mtn.
Gaviota Pk.
Gaviota Pass
Buellton
Chalk Hill
Solvang
Santa Ynez
NUESTRA SENORA DEL REFUGIO
Scale ½" = 1 Mile
SANTA BARBARA



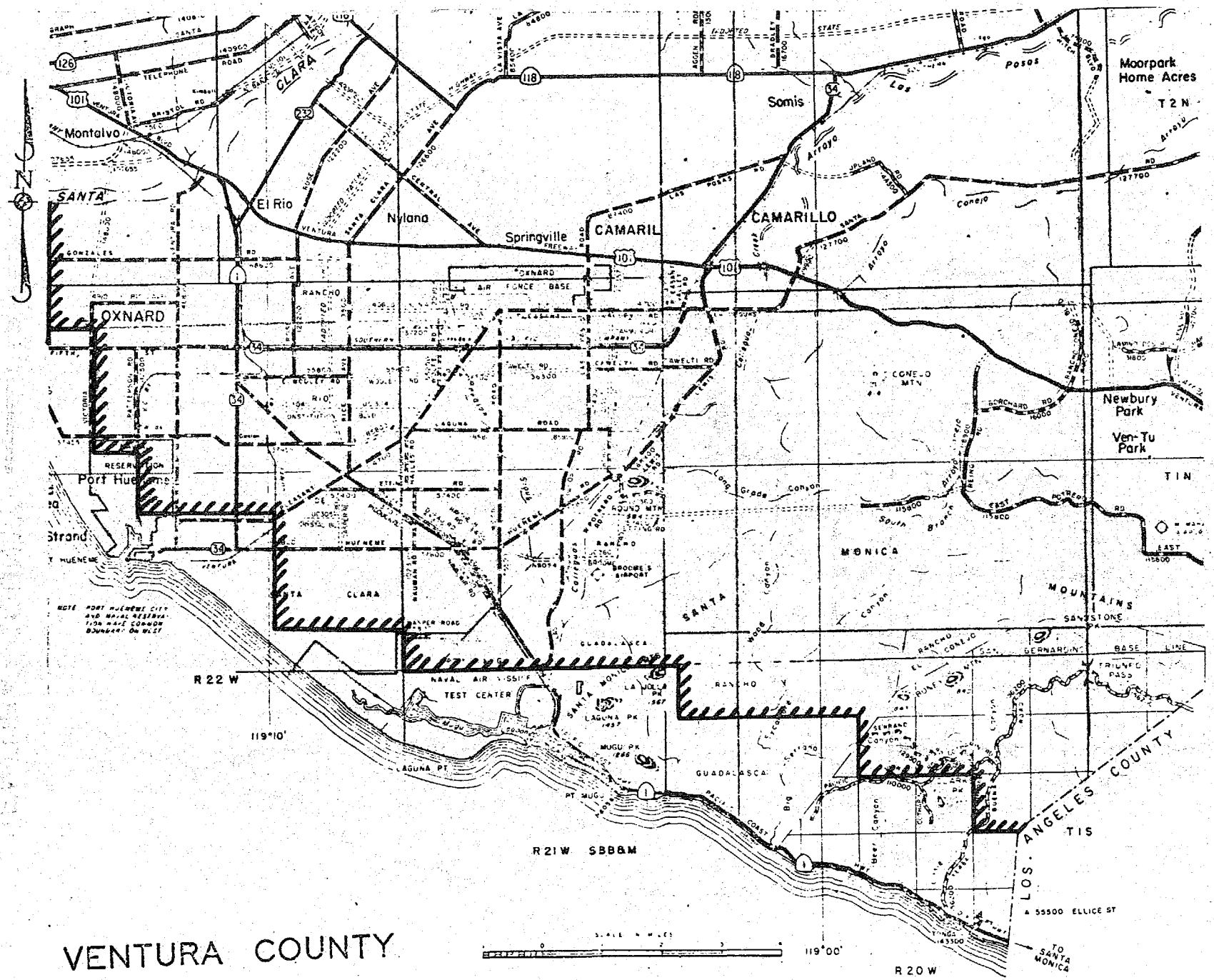
SANTA BARBARA



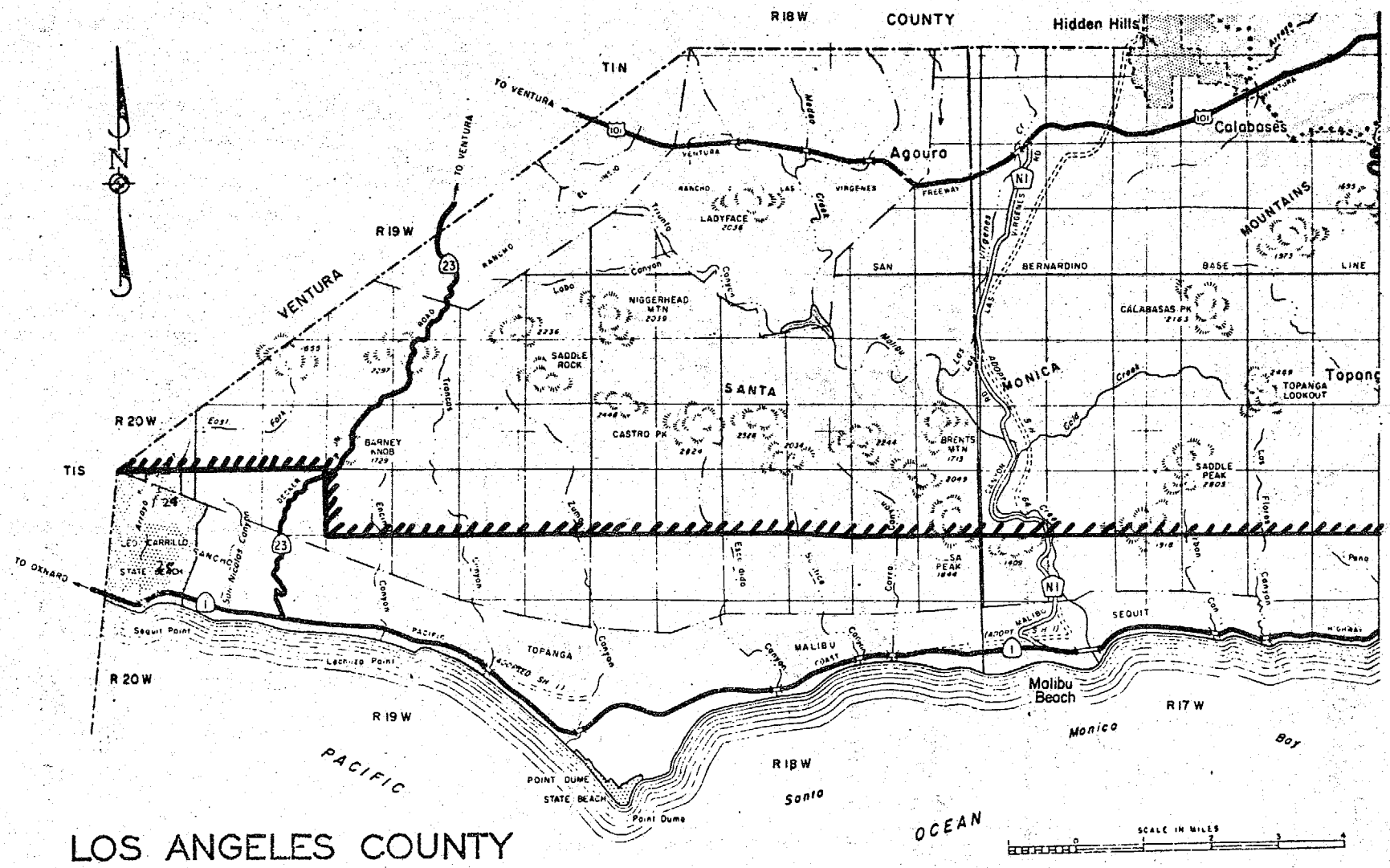
SANTA BARBARA



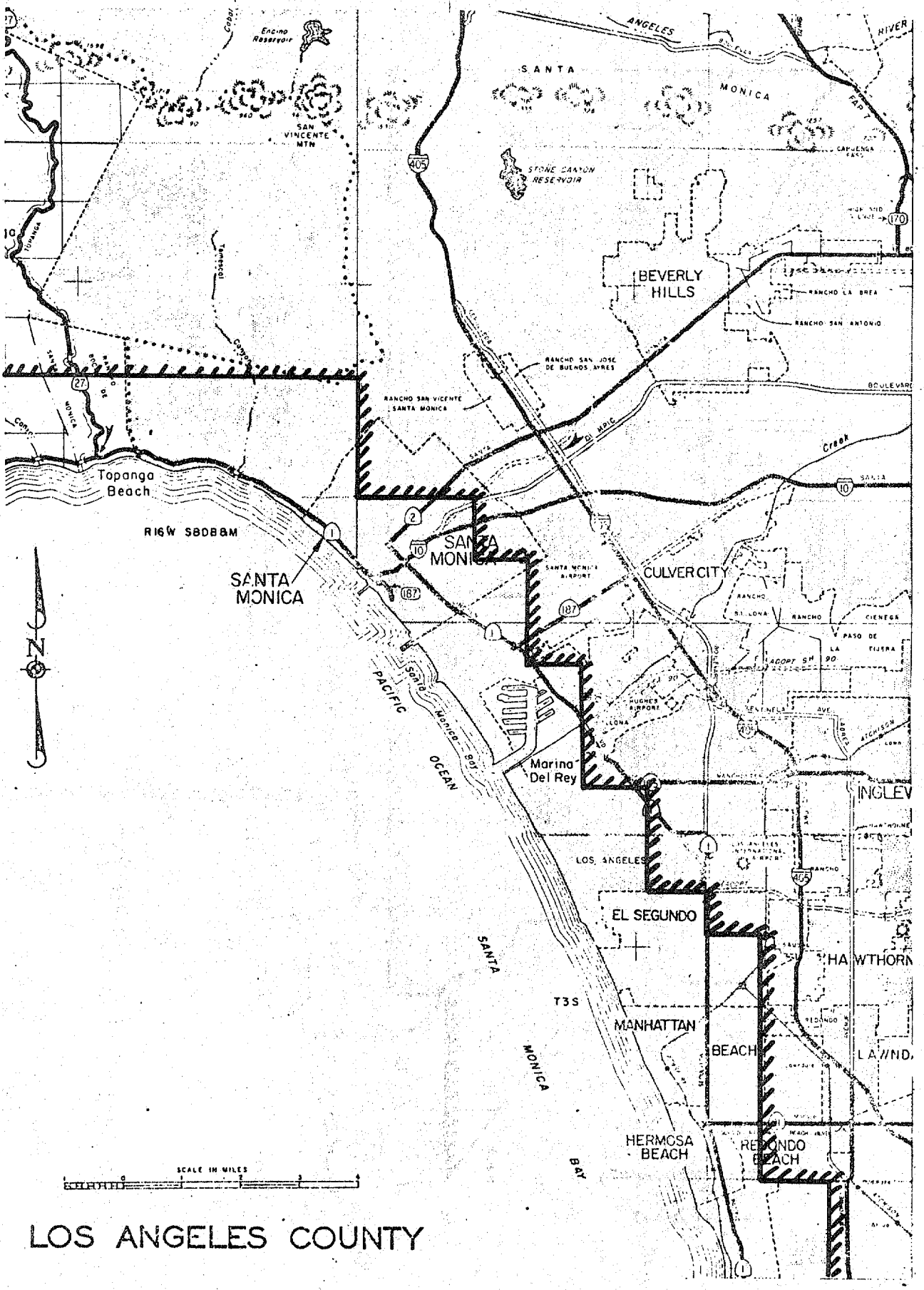
VENTURA COUNTY



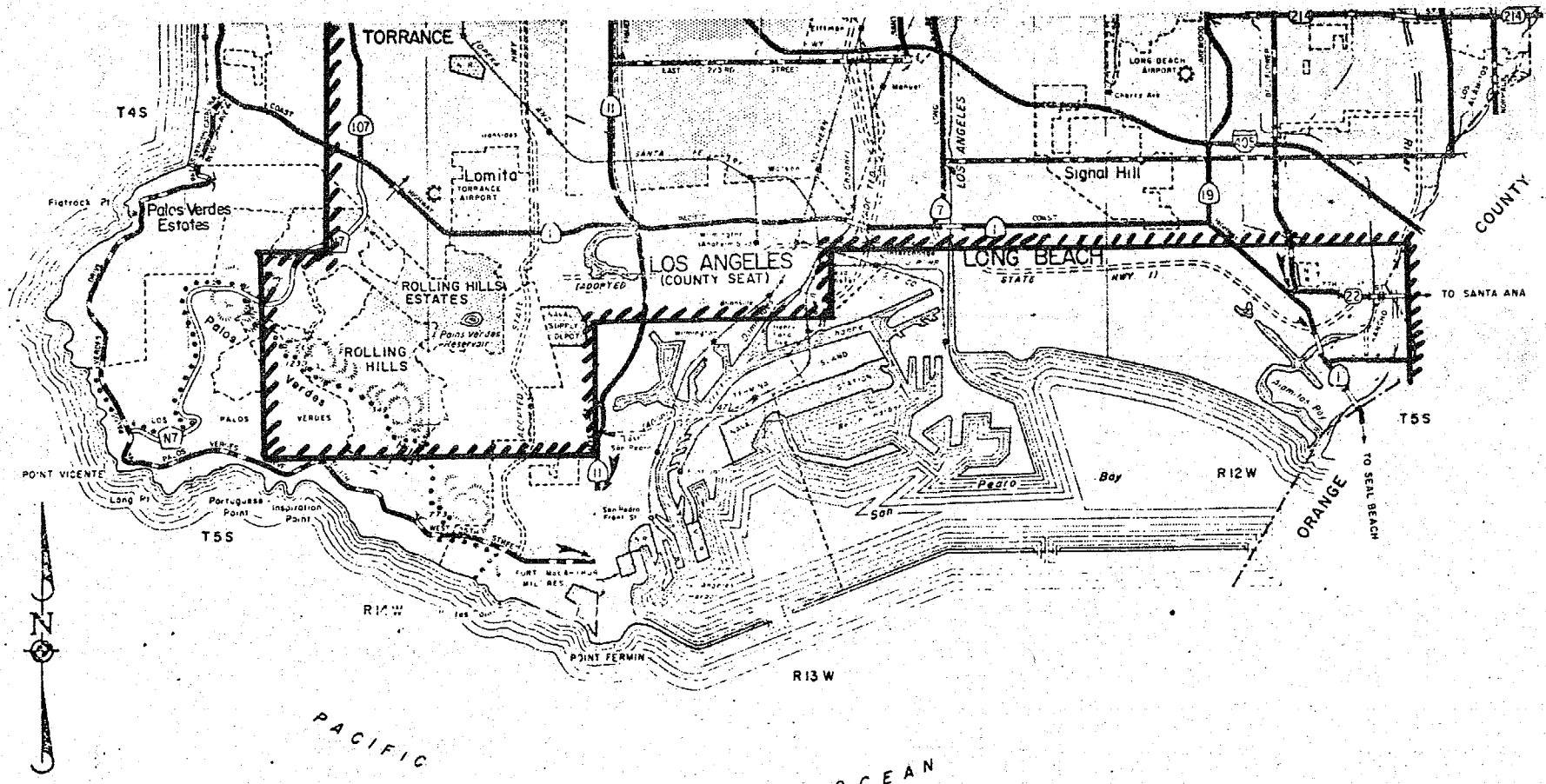
VENTURA COUNTY



LOS ANGELES COUNTY

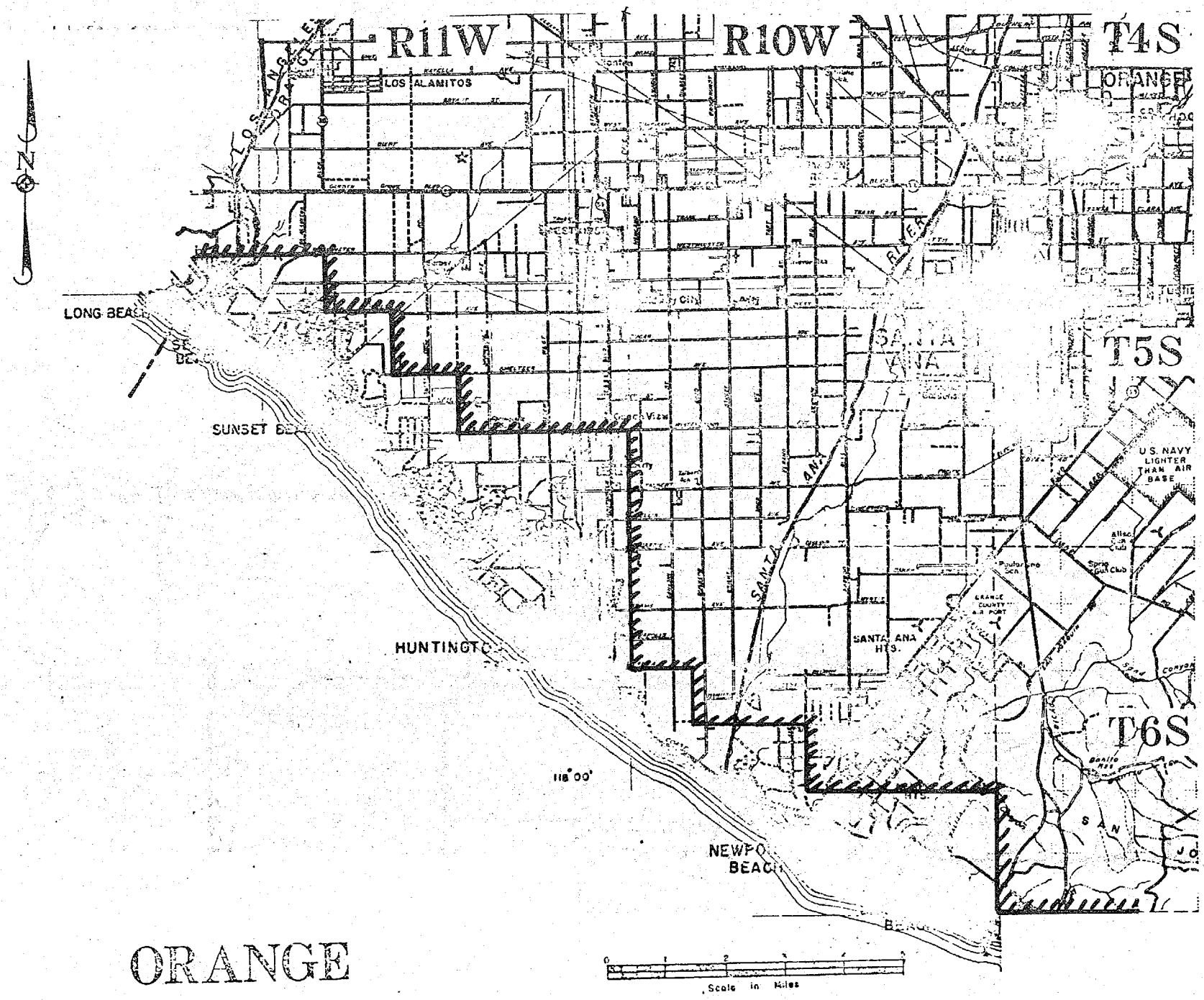


LOS ANGELES COUNTY

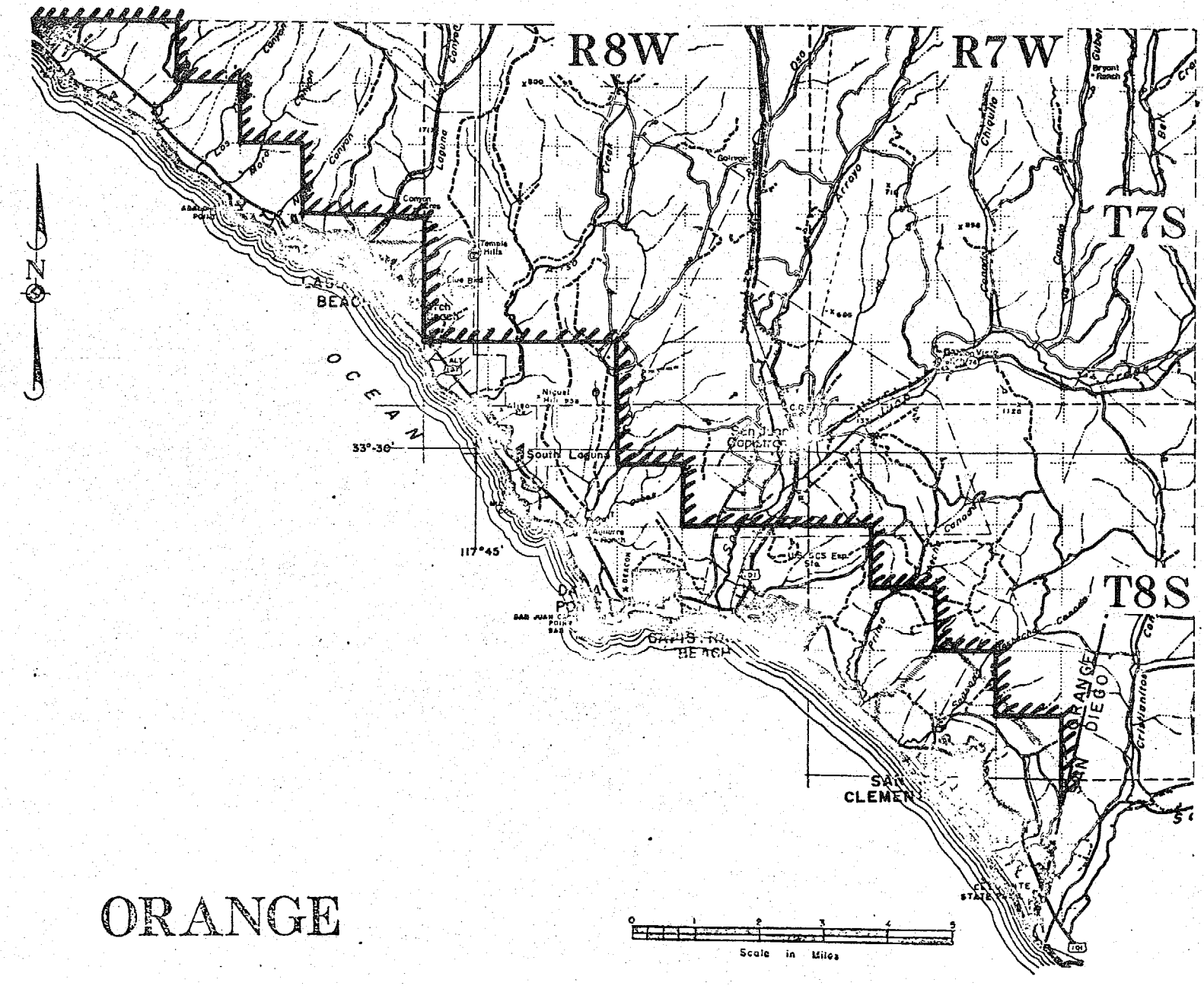


LOS ANGELES COUNTY

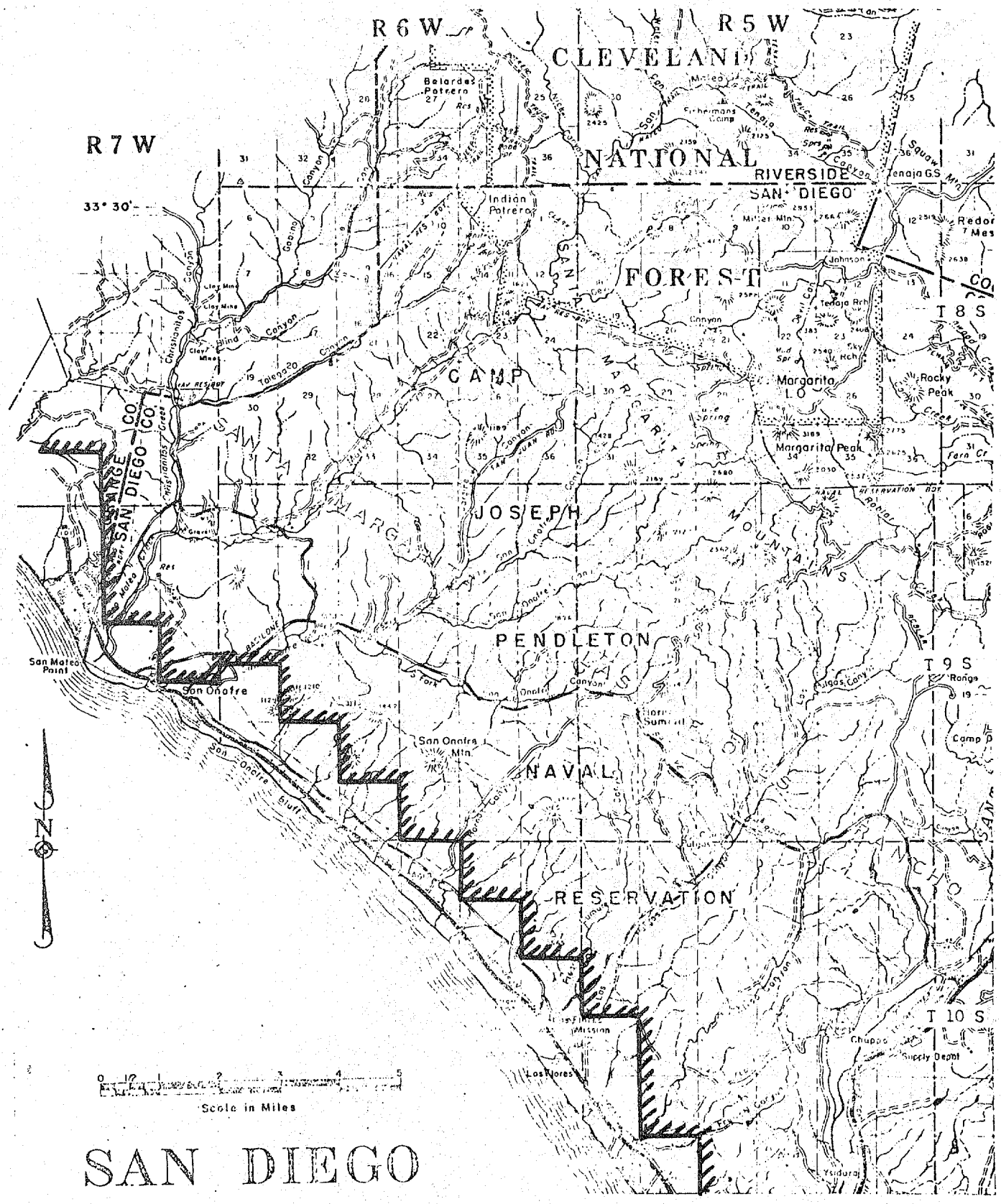
SCALE IN MILES


R11W
R10W
T4S
T5S
T6S
LOS ALAMITOS
LONG BEACH
SUNSET BEACH
HUNTINGTON
NEWPORT BEACH
SANTA ANA
SANTA ANA HTS.
U.S. NAVY LIGHTER THAN AIR BASE
ORANGE COUNTY AIR PORT
118°00'
N
Scale in Miles

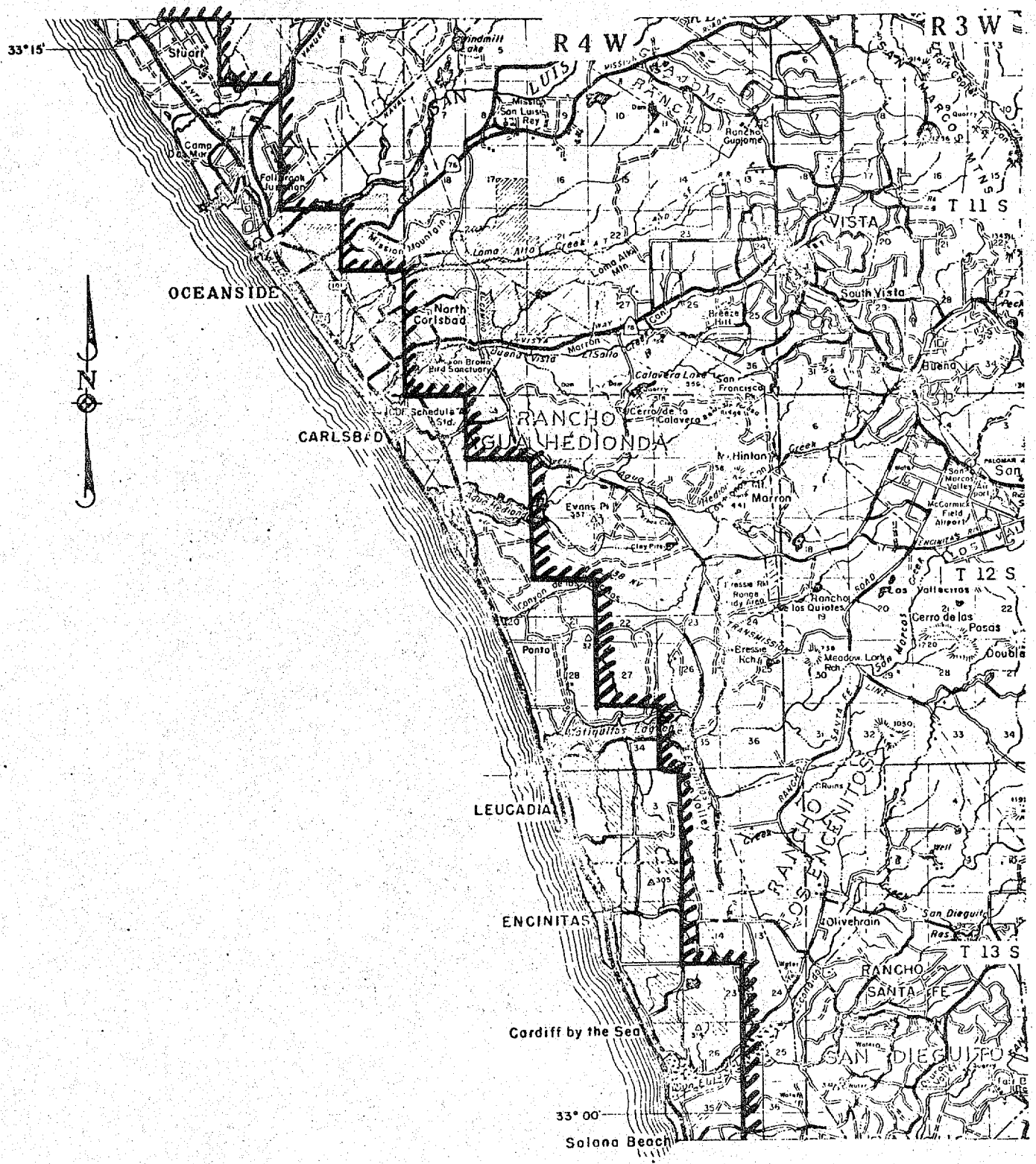
ORANGE


R8W
R7W
T7S
T8S
N
OCEAN
33°-30'
117°45'
South Laguna
Temple Hills
Niguel Hill
Aliso
Aguerre Ranch
Golivan
Arroyo
Chiquito
Bryant Ranch
Canada
Prima
Cristianitos
SAN CLEMEN
ORANGE
SAN DIEGO
0 1 2 3 4 5
Scale in Miles

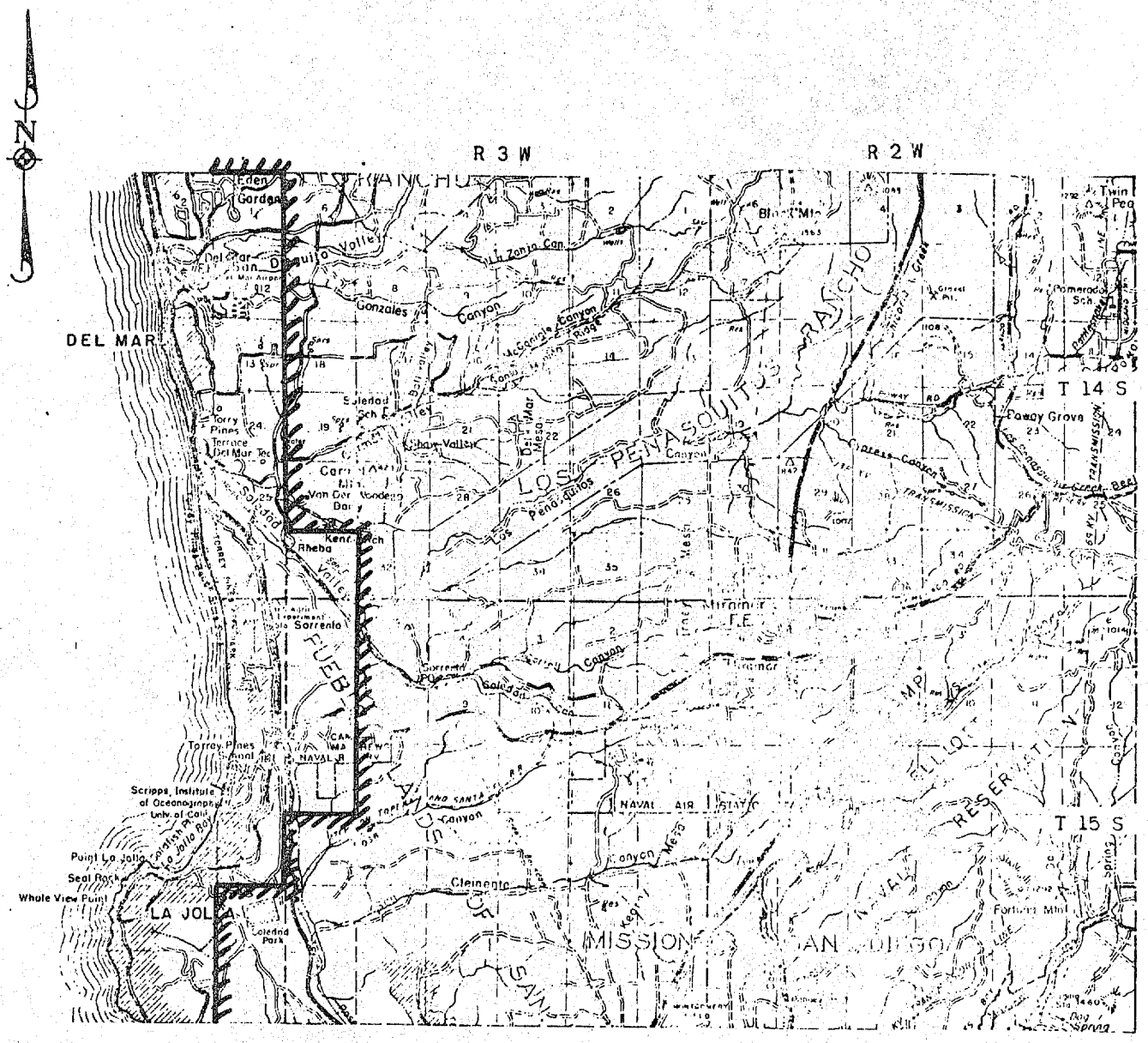
ORANGE


R 6 W
R 5 W
R 7 W
CLEVELAND
NATIONAL
FOREST
RIVERSIDE
SAN DIEGO
33° 30'
Belardes Potrero
Indian Potrero
Fisherman's Camp
Tenaja G.S.
Squaw Mtn
Redon Mes
Johnson
Tenaja Rch
Sky Rch
Margarita L.O.
Rocky Peak
Margarita Peak
T 8 S
T 9 S
T 10 S
CAMP
JOSEPH
PENDLETON
NAVAL
RESERVATION
SANTA MARGARITA MOUNTAINS
SAN DIEGO CO.
San Mateo Point
San Onofre
San Onofre Mtn.
San Onofre Bluff
Los Flores
Chuppo
Supply Depot
Ysidora
Scale in Miles
N

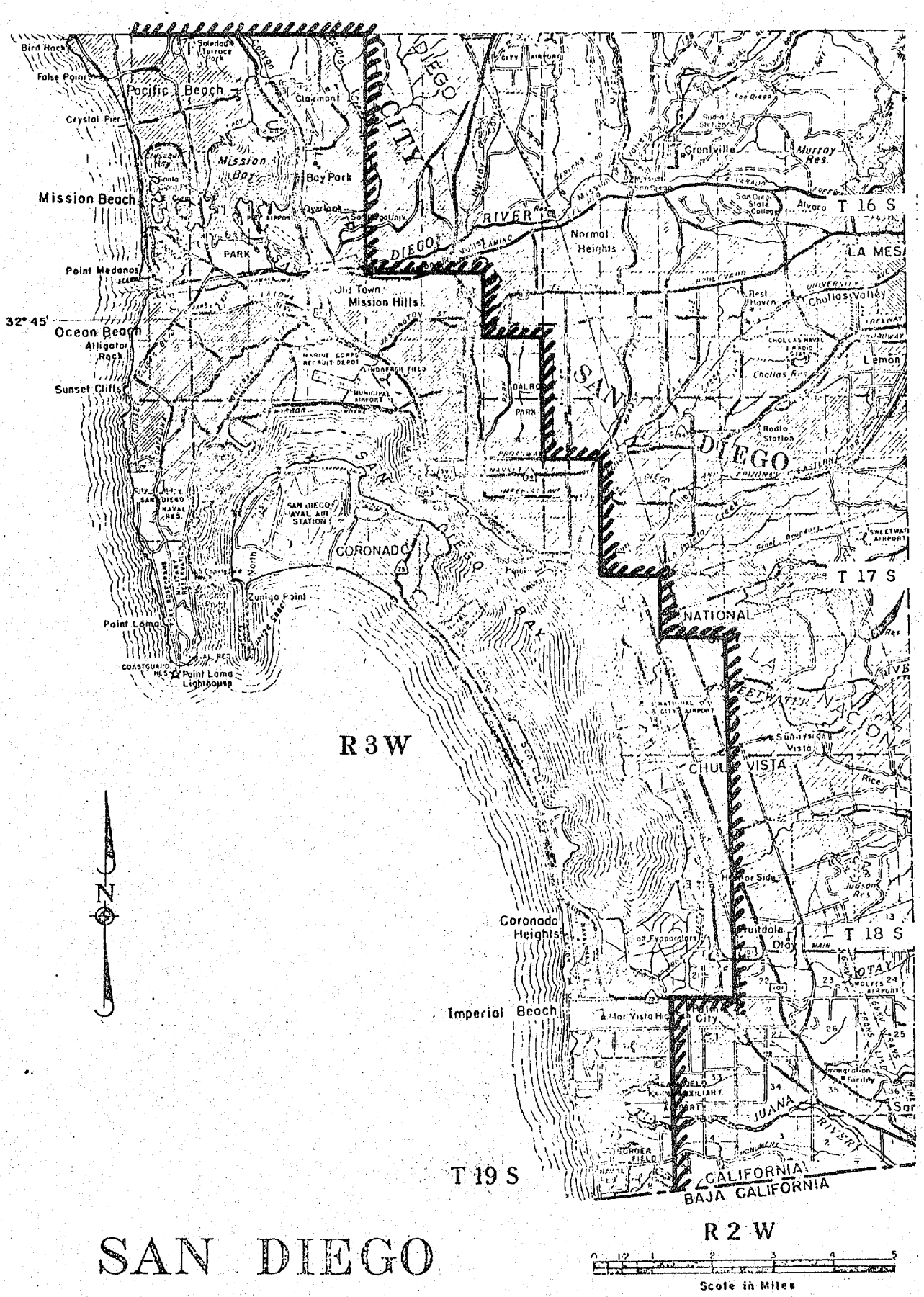
SAN DIEGO


33°15'
R 4 W
R 3 W
T 11 S
T 12 S
T 13 S
OCEANSIDE
CARLSBAD
LEUCADIA
ENCINITAS
Cardiff by the Sea
33° 00'
Solana Beach
RANCHO GUAJOME
RANCHO LOS ENCINITOS
RANCHO SANTA FE
SAN DIEGUITO
VISTA
South Vista
North Carlsbad
Stuart
Camp Das Mar
Fallbrook Junction
Mission Mountain
Loma Alta Creek
Loma Alta Mtn.
Breeze Hill
Calavera Lake
San Francisco Pk.
Cerro de la Calavera
Mt. Hinton
Mt. Marron
Evans Pk.
Rancho de los Quiotes
Los Vallecitos
Cerro de las Pasas
Meadow Lark Rch.
Bressie Rch.
Ponto
Olivehrain
San Dieguito Res.
McCormick Field Airport
Buena
Scale in Miles

SAN DIEGO


N
R 3 W
R 2 W
T 14 S
T 15 S
DEL MAR
LA JOLLA
Eden Garden
Del Mar
Gonzales Canyon
Torry Pines Terrace
Soledad Sch
Shaw Valley
Del Mar Mesa
Los Penasquitos Canyon
LOS PENASQUITOS RANCHO
Poway Grove
Cypress Canyon
Rheba
Sorrento
Torrey Pines Sanal
Scripps Institute of Oceanography Univ. of Cali
Point La Jolla
Seal Rock
Whole View Point
Soledad Park
Cleinente
NAVAL AIR STATION
MISSION
SAN DIEGO
Fortuna Mtn
Pomerado Sch
Twin Pea
Black Mtn
Miramar F.E.
Scale in Miles

SAN DIEGO


Bird Rock
False Point
Pacific Beach
Crystal Pier
Mission Beach
Mission Bay
Bay Park
Clairmont
Point Medanos
Ocean Beach
Alligator Rock
Sunset Cliffs
32° 45'
Old Town
Mission Hills
Normal Heights
Grantville
Murray Res.
Alvara
T 16 S
LA MES
Chollas Valley
Lemon
Chollas Res.
Radio Station
SAN DIEGO
CORONADO
SAN DIEGO NAVAL AIR STATION
Zuniga Point
Point Loma
Point Loma Lighthouse
T 17 S
NATIONAL
CHULA VISTA
Sunnyside Vista
Rice
Coronado Heights
Imperial Beach
Palm City
T 18 S
T 19 S
CALIFORNIA
BAJA CALIFORNIA
R 3 W
R 2 W
N
Scale in Miles

SAN DIEGO