

Appendix F - Vascular Plant List For Antioch Dunes National Wildlife Refuge

Current Plant Species at Antioch Dunes National Wildlife Refuge. Compiled from California Native Plant Society surveys and other sources. 1974 - 2001.

SEAFIG FAMILY (*AIZOACEAE*)

Ice Plant (*Carpobrotus edulis*)

AMARANTH FAMILY (*AMARANTHACEAE*)

Tumbleweed (Pigweed) (*Amaranthus albus*)
Prostrate Amaranth (*Amaranthus blitoides*)**N
Amaranthus (*Amaranthus sp.*)

AMARYLLIS FAMILY (*AMARYLLIDACEAE*)

Naked Ladies (*Amaryllis belladonna*)

CASHEW FAMILY (*ANACARDIACEAE*)

California Pepper Tree (*Schinus molle*)?N
Poison Oak (*Toxicodendron diversilobum*)N

CELERY(CARROT) FAMILY (*APIACEAE*)

Button-celery (Coyote Thistle) (*Eryngium aristulatum*)**N
Fennel (*Foeniculum vulgare*)
Floating Marsh Pennywort (*Hydrocotyle ranunculoides*)**N
Whorled Marsh Pennywort (*Hydrocotyle verticillata*)**N
Mason's Lilaepsis (*Lilaeopsis masonii*)*N (CA RARE/CNPS 1B)
Water Parsley (*Oenanthe sarmentosa*)N
Hemlock Water Parsnip (*Sium suave*)**N

DOGBANE FAMILY (*APOCYNACEAE*)

Indian-hemp (*Apocynum cannabinum*)**N
Oleander (*Nerium oleander*)

MILKWEED FAMILY (*ASCLEPIADACEAE*)

Narrow-leaf Milkweed (*Asclepias fascicularis*)N

ASTER FAMILY (*ASTERACEAE*)

Yarrow (*Achillea millefolium*)N
Western Ragweed (*Ambrosia psilostachya*)
Unknown (*Ambrosia sp.*)
Mugwort (*Artemisia douglasiana*)N
Suisun Marsh Aster (*Aster lentus*)*N (CNPS 1B)
Coyote Brush (*Baccharis pilularis*)N
Mule Fat (*Baccharis salicifolia*)N
Bur Marigold (*Bidens laevis*)**N
Italian Thistle (*Carduus pycnocephalus*)
Slender-flowered Thistle (*Carduus teniflorus*)?
Tocalote (*Centaurea melitensis*)
Yellow Starthistle (*Centaurea solstitialis*)
Spikeweed (*Centromadia pungens ssp?*)N
Horseweed (*Conyza canadensis*)
Kellogg's Tarweed (*Deinandra kelloggii*) (formerly by *Hemizonia k.*)**N
Western Goldenrod (*Euthamia occidentalis*)**N

California Fluffweed (*Filago californica*)N
 Herba Impia (Fluffweed) (*Filago gallica*)N
 Fragrant Everlasting (*Gnaphalium canescens* ssp. *beneolens*)**N
 Common Cudweed (*Gnaphalium luteo-album*)
 Cotton Batting Plant (*Gnaphalium stramineum*)N
 Cudweed (*Gnaphalium* sp.)
 Gumplant (*Grindelia camporum* var. *camporum*)N
 Hirsute Grindelia (*Grindelia hisutula* var. *h.*)**N
 Marsh Gumplant (*Grindelia stricta* var. *angustifolia*)**N (CNPS 4)
 Grindelia (*Grindelia* sp.)N
 California Matchweed (*Gutierrezia californica*)**N
 Bigelow's Sneezeweed (*Helenium bigelovii*)**N
 Hayfield Tarweed (*Hemizonia congesta* ssp. *c.*)**N
 Telegraph Weed (*Heterotheca grandiflora*)N
 Bristly Golden Aster (*Heterotheca sessiliflora* ssp. *echioides*)**N
 Tarweed (*Holocarpha* sp.)N
 Smooth Cat's Ear (*Hypochaeris glabra*)
 Rough Cat's Ear (*Hypochaeris radicata*)
 Prickly Lettuce (*Lactuca serriola*)
 California Goldfields (*Lasthenia californica*)N
 Tidy-tips (*Layia platyglossa*)**N
 Glandular Lessingia (*Lessingia glandulifera* var. *g.*)**N
 Slender Cottonweed (*Micropus californicus* var. *c.*)N
 Cupped Monolopia (*Monolopia major*)**N
 Bristly Ox-tongue (*Picris echioides*)
 Bush Groundsel (Shrubby Butterweed) (*Senecio flaccidus* var. *douglasii*)**N
 Alkali-marsh Butterweed (*Senecio hydrophilus*)**N
 Common Butterweed (*Senecio vulgaris*)
 Unknown (wet grower) (*Senecio* sp.)
 Prickly Sow Thistle (*Sonchus asper*)
 Common Sow Thistle (*Sonchus oleraceus*)
 Purple Salsify (*Tragopogon porrifolius*)
 Cocklebur (*Xanthium strumarium*)N

BIRCH FAMILY (*BETULACEAE*)

White Alder (*Alnus rhombifolia*)N

BORAGE FAMILY (*BORAGINACEAE*)

Common Fiddleneck (*Amsinckia menziesii* var. *intermedia*)N
 Rancher's Fireweed (*Amsinckia menziesii* var. *menziesii*)N
 Devil's Lettuce (*Amsinckia tessellata* var. *t.*)**N
 Alkali Heliotrope (*Heliotropium curassavicum*)N
 Bracted Popcornflower (*Plagiobotrys bracteatus*)

MUSTARD FAMILY (*BRASSICACEAE*)

Black Mustard (*Brassica nigra*)
 Hoary Cress (*Cardaria* sp.)
 Contra Costa Wallflower (*Erysimum capitatum* ssp. *angustatum*)*N(US & CA ENDANGERED/
 CNPS 1B)
 Summer Mustard (*Hirschfeldia incana*)
 Wide-leaved Peppergrass (*Lepidium latifolium*)
 Radish (*Raphanus sativus*)
 Tumble Mustard (*Sisymbrium altissimum*)
 Oriental Sisymbrium (*Sisymbrium orientale*)

CACTUS FAMILY (*CACTACEAE*)

Prickly-pear Cactus (*Opuntia ficus-indica*)

HONEYSUCKLE FAMILY (CAPRIFOLIACEAE)

Blue Elderberry (*Sambucus mexicana*)N

PINK FAMILY (CARYOPHYLLACEAE)

Mouse-ear Chickweed (*Cerastium glomeratum*)

Windmill Pink (*Silene gallica*)

Sand-spurrey (*Spergularia rubra*)

Common Chickweed (*Stellaria media*)

(CASUARINACEAE)

Beefwood (*Casuarina sp.*)

GOOSEFOOT FAMILY (CHENOPODIACEAE)

Spearscale (*Atriplex triangularis*)N

Goosefoot (*Chenopodium murale*)

Russian Thistle (*Salsola tragus*)

MORNING GLORY FAMILY (CONVOLVULACEAE)

Hedge Morning-glory (Bindweed) (*Calystegia sepium ssp. limnophila*)**N

Bindweed (*Convolvulus arvensis*)

STONECROP FAMILY (CRASSULACEAE)

Pygmyweed (*Crassula connata*)N

Pygmyweed (*Crassula tillaea*)

GOURD FAMILY (CUCURBITACEAE)

Man-root (Wild Cucumber) (*Marah fabaceus*)N

CYPRESS FAMILY (CUPRESSACEAE)

Cypress (*Cupressus sp.*)

Arbivitaie (*Thuja sp.*)

DODDER FAMILY (CUSCUTACEAE)

Field Dodder (*Cuscuta pentagona*)**N

SEDGE FAMILY (CYPERACEAE)

Sitka Sedge (*Carex aquatilis var. dives*)**N

Nebraska Sedge (*Carex nebrascensis*)**N

Sedge (*Carex sp.*)N

Tall Cyperus (Nutsedge) (*Cyperus eragrostis*)N

Common Tule (*Scirpus acutus var. occidentalis*)N

Three Square (*Scirpus americanus*)N

California Tule (Cali. Bulrush) (*Scirpus californicus*)N

Tule (Low Club Rush) (*Scirpus cernuus*)**N

HORSETAIL FAMILY (EQUISETACEAE)

Smooth Scouring Rush (*Equisetum laevigatum*)N

SPURGE FAMILY (EUPHORBIACEAE)

California Croton (*Croton californicus*)**N

LEGUME FAMILY (FABACEAE)

Bird-of-paradise Bush (*Caesalpinia gilliesii*)

French Broom (*Genista monspessulana*)

Leather Root (*Hoita macrostachya*)*N
 Delta Tule Pea (*Lathyrus jepsonii* var. *jepsonii*)*N (CNPS 1B)
 Birdfoot Trefoil (*Lotus corniculatus*)
 Spanish-clover (*Lotus purshianus* var. *purshianus*)N
 Deerweed (*Lotus scoparius*)N
 Stipulate Trefoil (*Lotus stipularis* var. *stipularis*)*N
 Strigose Trefoil (*Lotus strigosus*)*N
 Common Trefoil (*Lotus wrangelianus*)N
 Silver Lupin (*Lupinus albifrons*)N
 Dove Lupine (Dwarf Lupine) (*Lupinus bicolor* var. *pipersmithii*)*N
 Dove Lupine (Dwarf Lupine) (*Lupinus bicolor* var. *umbellatus*)*N
 Chamisso's Bush Lupine (*Lupinus chamissonis*)*N
 Lupine (*Lupinus* sp.)N
 Arroyo Lupine (*Lupinus succulentus*)N
 Burr Clover (*Medicago polymorpha*)
 Alfalfa (*Medicago sativa*)
 White Sweetclover (*Melilotus alba*)
 Yellow Sweetclover (*Melilotus indica*)
 Black Locust (*Robinia pseudoacacia*)
 Pin-point Clover (*Trifolium gracilentum*)N
 Rose Clover (*Trifolium hirtum*)
 Clover (*Trifolium* sp.)N
 Tomcat Clover (*Trifolium willdenovii*)N
 Common Vetch (*Vicia sativa* ssp. *nigra*)
 Spring Vetch (*Vicia sativa* ssp. *sativa*)
 Winter Vetch (*Vicia villosa* ssp. *varia*)
 Winter Vetch (*Vicia villosa* ssp. *villosa*)

BEECH FAMILY (*FAGACEAE*)

Coastal Live Oak (*Quercus agrifolia*)N
 Coastal Live Oak-Interior Live Oak Hybrid (*Quercus agrifolia* var. *wizliseni*)N
 Valley Oak (*Quercus lobata*)

GENTIAN FAMILY (*GENTIANACEAE*)

Monterey Centaury (*Centaureum muehlenbergii*)*N

GERANIUM FAMILY (*GERANIACEAE*)

Large-flowered Filaree (*Erodium botrys*)
 Red-stemmed Filaree (*Erodium cicutarium*)
 Cut-leaf Geranium (*Geranium dissectum*)

WATER-MILFOIL FAMILY (*HALORAGACEAE*)

Milfoil (*Myriophyllum* sp.)

WATERWEED FAMILY (*HYDROCHARITACEAE*)

Common Waterweed (*Elodea canadensis*)

IRIS FAMILY (*IRIDACEAE*)

Yellow Flag (*Iris pseudacorus*)

WALNUT FAMILY (*JUGLANDACEAE*)

N. Cali. Black Walnut (*Juglans californica* var. *hindsii*)*N

RUSH FAMILY (*JUNCACEAE*)

Jointed Rush (*Juncus articulatus*)*N
 Baltic Rush (*Juncus balticus*)N

Toad Rush (*Juncus bufonius* (var.?)N)
Bog Rush (*Juncus effusus*)
Irisleaf Rush (*Juncus xiphioides*)?N

ARROW-GRASS FAMILY (JUNCAGINACEAE)

Flowering Quillwort (*Lilaea scilloides*)?
Arrow-grass (*Triglochin* sp.)N

MINT FAMILY (LAMIACEAE)

Cutleaf Bugleweed (*Lycopus americanus*)**N
Horehound (*Marrubium vulgare*)
Field mint (*Mentha arvensis*)
Mint (*Mentha* sp.)
Hoary Hedge-nettle (White Hedge-nettle) (*Stachys albens*)**N
Vinegar Weed (*Trichostema lanceolatum*)N

LILY FAMILY (LILIACEAE)

Asparagus (*Asparagus officinalis* ssp. o.)
Blue Dicks (*Dichelostemma capitatum*)N

LOOSESTRIFE FAMILY (LYTHRACEAE)

California Loosestrife (*Lythrum californicum*)**N

MALLOW FAMILY (MALVACEAE)

Lavatera (*Lavatera arborea*)
Cretan Tree-mallow (*Cretan lavatera*) (*Lavatera cretica*)
Cheeseweed (*Malva parviflora*)

(MELIACEAE)

Chinaberry (*Melia azedarach*)

MYRTLE FAMILY (MYRTACEAE)

Blue Gum (*Eucalyptus globulus*)

OLIVE FAMILY (OLEACEAE)

Oregon Ash (*Fraxinus latifolia*)**N
Olive (*Olea europaea*)

EVENING-PRIMROSE FAMILY (ONAGRACEAE)

Contorted Primrose (*Camissonia contorta*)?***N
Small-flowered Sun Cup (Small Primrose) (*Camissonia micrantha*)?***N
Camissonia (*Camissonia* sp.)N
Elegant Clarkia (*Clarkia unguiculata*)N
Panicled Willowherb (*Epilobium brachycarpum*)N
Willowherb (*Epilobium ciliatum* ssp. *ciliatum*)N
Smooth Boisduvalia (*Epilobium pygmaeum*)**N
Willowherb (*Epilobium* sp.)N
Water Primrose (*Ludwigia peploides*)?***N
Antioch Dunes Evening Primrose (*Oenothera deltoides* ssp. *howellii*)*N (US & CA
ENDANGERED/CNPS 1B)
Hooker's Evening Primrose (*Oenothera elata* ssp. *hookeri*)**N

OXALIS FAMILY (OXALIDACEAE)

Bermuda Buttercups (*Oxalis pes-caprae*)

POPPY FAMILY (PAPAVERACEAE)

California Poppy (*Eschscholzia californica*)N
Narrow-leaved Meconella (*Meconella linearis*)**N
Wind Poppy (*Stylomecon heterophylla*)N

PLANTAIN FAMILY (PLANTAGINACEAE)

Crownfoot Plantain (Cutleaf Plantain) (*Plantago coronopus*)
English Plantain (*Plantago lanceolata*)
Mexican Plantain (*Plantago subnuda*)**N

SYCAMORE FAMILY (PLANTANACEAE)

Western Sycamore (*Platanus racemosa*)**N

GRASS FAMILY (POACEAE)

Spike Redtop (*Agrostis exarata*)N
Giant Reed (*Arundo donax*)
Slender Wild Oats (*Avena barbata*)
Wild oat (*Avena fatua*)
Bamboo (*Bambusa sp.*)
Rippgut Brome (*Bromus diandrus*)
Soft Brome (*Bromus hordeaceus*)
Red Foxtail Brome (*Bromus madritensis ssp. rubens*)
Pampas Grass (*Cortaderia selloana*)
Bermuda Grass (*Cynodon dactylon*)
Tufted Hairgrass (*Deschampsia cespitosa ssp. c.*)**N
Tufted Hairgrass (*Deschampsia cespitosa ssp. holiciformis*)?***N
Saltgrass (*Distichlis spicata*)N
Meadow Barley (*Hordeum brachyantherum ssp. b.*)N
Farmer's Foxtail (*Hordeum murinum ssp. leporinum*)
Farmer's Foxtail (*Hordeum murinum ssp. m.*)
Bristly Koeleria (*Koeleria phleoides*)
Alkali Rye (Creeping Ryegrass) (*Leymus triticoides*)N
Italian Ryegrass (*Lolium multiflorum*)
Witchgrass (*Panicum capillare*)**N
Canary Grass (*Phalaris canariensis*)
Common Reed (*Phragmites australis*)**N
Smilo Grass (*Piptatherum miliaceum*)
Kentucky Bluegrass (*Poa pratensis*)
Pacific Fescue (*Vulpia microstachys var. pauciflora*)N
Zorro Grass (*Vulpia myuros var. hirsuta*)
Zorro Grass (*Vulpia myuros var. m.*)

PHLOX FAMILY (POLEMONIACEAE)

Blue-headed Gilia (Range Gilia) (*Gilia capitata ssp. staminea*)**N

KNOTPLANT FAMILY (POLYGONACEAE)

Slender Buckwheat (*Eriogonum gracile var. g.*)**N
Naked-stemmed Buckwheat (*Eriogonum nudum var. auriculatum*)N
Hairyflower Buckwheat (*Eriogonum nudum var. pubiflorum*)**N
Willow Weed (*Polygonum lapathifolium*)***N
Water Smartweed (*Polygonum punctatum*)**N
Knotweed (*Polygonum sp.*)
Curly Dock (*Rumex crispus*)

PICKEREL-WEED FAMILY (PONTEDERIACEAE)

Water-hyacinth (*Eichornia crassipes*)

PURSLANE FAMILY (PORTULACACEAE)

Red Maids (*Calandrinia ciliata*)N
Miner's Lettuce (*Claytonia parviflora*)N
Miner's Lettuce (*Claytonia perfoliata*)N
Common Purslane (*Portulaca oleracea*)

ROSE FAMILY (ROSACEAE)

Toyon (*Heteromeles arbutifolia*)N
Silverplant (*Potentilla anserina* ssp. *pacifica*)**N
Almond (*Prunus dulcis*)
Stone Fruit (*Prunus* sp.)
California Rose (*Rosa californica*)N
Himalayan Blackberry (*Rubus discolor*)
California Blackberry (*Rubus ursinus*)N

MADDER FAMILY (RUBIACEAE)

Button-willow (*Cephalanthus occidentalis* var. *californicus*)**N
Goose Grass (Common Bedstraw) (*Galium aparine*)
Bedstraw (*Galium* sp.)

WILLOW FAMILY (SALICACEAE)

Fremont Cottonwood (*Populus fremontii* ssp. *fremontii*)N
Narrow-leaved Willow (Sandbar Willow) (*Salix exigua*)N
Arroyo Willow (*Salix lasiolepis*)N
Shining Willow (*Salix lucida* ssp. *lasiandra****N

SAXIFRAGE FAMILY (SAXIFRAGACEAE)

Fringe Cups (*Tellima grandiflora*)**N

SNAPDRAGON FAMILY (SCROPHULARIACEAE)

Cream Sacs (*Castilleja attenuata*)N
Purple Owlslover (*Castilleja exserta* (ssp.?)N
Delta Mudwort (*Limosella subulata*)N (CNPS 2)
Yellow Monkeyflower (*Mimulus guttatus*)N
Purslane Speedwell (*Veronica peregrina* ssp. *xalapensis*)N

QUASSIA FAMILY (SIMAROUBACEAE)

Tree of Heaven (*Ailanthus altissima*)

NIGHTSHADE FAMILY (SOLANACEAE)

Thorn-apple (*Tolguacha*) (*Datura wrightii*)N
Tree Tobacco (*Nicotiana glauca*)
Blue Witch (*Solanum umbelliferum*)N

CATTAIL FAMILY (TYPHACEAE/SPARGANIACEAE)

Giant Burreed (*Sparganium eurycarpum* or *erectum*)?N
Narrow-leaved Cattail (*Typha angustifolia*)N
Southern Cattail (*Typha domingensis*)N

ELM FAMILY (ULMACEAE)

Dwarf Asiatic Elm (*Ulmus pumila*)

NETTLE FAMILY (*URTICACEAE*)

Dwarf Nettle (*Urtica urens*)

GRAPE FAMILY (*VITACEAE*)

Cultivated Grape (*Vitis vinifera*)

RARE PLANTS OF HISTORICAL OCCURRENCE

Hoover's Cryptantha (*Cryptantha hooveri*) (CNPS 4)*N

Small Spikerush (*Eleocharis parvula*) (CNPS 4)*N

Diamond-petaled Calif. Poppy (*Eschscholzia rhombipetala*) (CNPS 1B)*N

Contra Costa Goldfields (*Lasthenia conjugens*) (CA ENDANGERED/CNPS 1B)*N

Showy Madia (*Madia radiata*) (CNPS 1B)*N

N Native Species

* Rare, threatened or endangered in California. Special Plants List, July 2000, California Dept. of Fish and Game, Natural Diversity Database; and draft of CNPS Inventory of Rare and Endangered Vascular Plants of California, Sixth ed, Due for publication 2001.

**Rare, threatened or endangered in Alameda and Contra Costa counties. Listed in Unusual and Significant Plants of Alameda and Contra Costa Counties, Dianne Lake, (CNPS, East Bay Chapter, sixth ed, 2001).

***Watch List for Alameda and Contra Costa counties. Unusual and Significant Plants of Alameda and Contra Costa Counties, Diane Lake, (CNPS, East Bay Chapter, sixth ed, 2001).

Appendix G - Bird List for Antioch Dunes National Wildlife Refuge and Offshore Waters

Red-throated loon	<i>(Gavia stellata)</i>
Pied-billed grebe	<i>(Podilymbus podiceps)</i>
Western grebe	<i>(Aechmophorus occidentalis)</i>
Brown pelican	<i>(Pelecanus occidentalis)</i>
Double-crested cormorant	<i>(Phalacrocorax auritus)</i>
Black-crowned night-heron	<i>(Nycticorax nycticorax)</i>
Unknown egret	<i>(Egretta thula or Ardea alba?)</i>
Great blue heron	<i>(Ardea herodias)</i>
Snow goose	<i>(Anser caerulescens)</i>
Canada goose	<i>(Branta canadensis)</i>
Mallard	<i>(Anas platyrhynchos platyrhynchos)</i>
Greater scaup	<i>(Aythya marila)</i>
Turkey vulture	<i>(Cathartes aura)</i>
Osprey	<i>(Pandion haliaetus)</i>
White-tailed kite	<i>(Elanus leucurus)</i>
Black kite	<i>(Milvus migrans)</i>
Marsh hawk (Northern harrier)	<i>(Circus cyaneus)</i>
Cooper's hawk	<i>(Accipiter cooperii)</i>
Red-tailed hawk	<i>(Buteo jamaicensis)</i>
American kestrel	<i>(Falco sparverius)</i>
Ring-necked pheasant	<i>(Phasianus colchicus)</i>
California quail	<i>(Callipepla californica)</i>
American coot	<i>(Fulica americana)</i>
Killdeer	<i>(Charadrius vociferus)</i>
Spotted sandpiper	<i>(Actitis macularia)</i>
Common snipe	<i>(Gallinago gallinago)</i>
Ring-billed gull	<i>(Larus delawarensis)</i>
Herring gull - North American	<i>(Larus argentatus smithsonianus)</i>
Caspian tern	<i>(Sterna caspia)</i>
Forster's tern	<i>(Sterna forsteri)</i>
Rock dove	<i>(Columba livia)</i>
Mourning dove	<i>(Zenaida macroura)</i>
Barn owl	<i>(Tyto alba)</i>
White-throated swift	<i>(Aeronautes saxatalis)</i>
Ruby throated hummingbird	<i>(Archilochus colubris)</i>
Anna's hummingbird	<i>(Calypte anna)</i>
Rufous hummingbird	<i>(Selasphorus rufus)</i>
Belted kingfisher	<i>(Ceryle alcyon)</i>
Nuttall's woodpecker	<i>(Picoides nuttallii)</i>
Red-shafted flicker	<i>(Colaptes cafer)</i>
Black phoebe	<i>(Sayornis nigricans)</i>
Western kingbird	<i>(Tyrannus verticalis)</i>
Loggerhead shrike	<i>(Lanius ludovicianus)</i>
Blue jay	<i>(Cyanocitta cristata)</i>
Western scrub-jay	<i>(Aphelocoma californica)</i>
American crow	<i>(Corvus brachyrhynchos)</i>
Common raven	<i>(Corvus corax)</i>
Violet-green swallow	<i>(Tachycineta thalassina)</i>
Cliff swallow	<i>(Petrochelidon pyrrhonota)</i>
Northern rough-winged swallow	<i>(Stelgidopteryx serripennis)</i>
Barn swallow	<i>(Hirundo rustica)</i>
Bushtit - coastal	<i>(Psaltriparus minimus minimus)</i>

Marsh wren	<i>(Cistothorus palustris)</i>
Ruby-crowned kinglet	<i>(Regulus calendula)</i>
American robin	<i>(Turdus migratorius)</i>
Northern mockingbird	<i>(Mimus polyglottos)</i>
European starling	<i>(Sturnus vulgaris)</i>
Water pipit	<i>(Anthus spinoletta)</i>
Cedar waxwing	<i>(Bombycilla cedrorum)</i>
Orange-crowned warbler	<i>(Vermivora celata)</i>
Yellow-rumped warbler	<i>(Dendroica coronata)</i>
Yellow-throated warbler	<i>(Dendroica dominica)</i>
Yellow warbler	<i>(Dendroica petechia)</i>
Rufous sided towhee	<i>(Pipilo maculatus)</i>
Spotted Song sparrow	<i>(Melospiza melodia)</i>
Fox sparrow	<i>(Passerella iliaca)</i>
White-crowned sparrow	<i>(Zonotrichia leucophrys)</i>
Dark-eyed junco	<i>(Junco hyemalis)</i>
Eastern meadowlark	<i>(Sturnella magna)</i>
Western meadowlark	<i>(Sturnella neglecta)</i>
Red-winged blackbird	<i>(Agelaius phoeniceus)</i>
Tri-colored blackbird	<i>(Agelaius tricolor)</i>
Brewer's blackbird	<i>(Euphagus cyanocephalus)</i>
Bullock's oriole	<i>(Icterus bullockii)</i>
Lawrence's goldfinch	<i>(Carduelis lawrencei)</i>
Pine siskin	<i>(Carduelis pinus)</i>
Lesser goldfinch	<i>(Carduelis psaltria)</i>
American goldfinch	<i>(Carduelis tristis)</i>
House finch	<i>(Carpodacus mexicanus)</i>

Appendix H - Fish Species Found Offshore of Antioch Dunes National Wildlife Refuge

American shad	(<i>Alosa sapidissima</i>)
Yellowfin goby	(<i>Acanthogobius flavimanus</i>)
Sacramento sucker	(<i>Catostomus occidentalis</i>)
Prickly sculpin	(<i>Cottus asper</i>) (Richardson)
Shiner surfperch	(<i>Cymatogaster aggregata</i>)
Threadfin shad	(<i>Dorosoma petenense</i>)
Sculpin family	(Family Cottidae)
Goby family	(Family Gobiidae)
Western mosquitofish	(<i>Gambusia affinis</i>)
Threespine stickleback	(<i>Gasterosteus aculeatus</i>) (Linnaeus)
Delta smelt	(<i>Hypomesus transpacificus</i>)
Tule perch	(<i>Hysterocarpus traski</i>) (Gibbons)
Hitch	(<i>Lavinia exilicauda</i>)
Bluegill	(<i>Lepomis macrochirus</i>)
Redear sunfish	(<i>Lepomis microlopus</i>)
Pacific staghorn sculpin	(<i>Leptocottus armatus</i>) (Girard)
Rainwater killifish	(<i>Lucania parva</i>)
Inland silverside	(<i>Menidia beryllina</i>)
Largemouth bass	(<i>Micropterus salmoides</i>)
Striped bass	(<i>Morone saxatilis</i>)
Hardhead	(<i>Mylopharodon conocephalus</i>)
Golden shiner	(<i>Notemigonus crysoleucas</i>)
Rosyface shiner	(<i>Notropis rubellus</i>)
Steelhead trout	(<i>Oncorhynchus mykiss</i>)
Chinook salmon	(<i>Oncorhynchus tshawytscha</i>)
Sacramento blackfish	(<i>Orthodon microlepidotus</i>) (Ayes)
Bigscale logperch	(<i>Percina macrolepida</i>) (Stevenson)
Starry flounder	(<i>Platichthys stellatus</i>)
Sacramento splittail	(<i>Pogonichthys macrolepidotus</i>)
Sacramento squawfish	(<i>Ptychocheilus grandis</i>) (Ayes)
Logfin smelt	(<i>Spirinchus thaleichthys</i>) (Ayes)
Goby shimofuri	(<i>Tridentiger bifasciatus</i>)
Chameleon goby	(<i>Tridentiger trigonocephalus</i>)
Unknown Bass	

Appendix I- Insect List for Antioch Dunes National Wildlife Refuge

Invertebrates observed or collected (1/95 - 6/97)

Arranged alphabetically for ease of reference

Order Coleoptera (Beetles)

Family Alleculidae

Lopopoda sp.

Family Anthicidae

Anthicus biguttulus

*Formicilla sp. **

Family Buprestidae

*Acmaeodera sp. **

Agrilus sp.

Family Carabidae

Agonoderus sp.

Agonum marginicolle

Amara sp.

Harpalus sp. @

Pterostichus sp. @

Scaphinotus striatopunctatus @

Stenolophus maculatus

Family Chrysomelidae

Altica lasulina

Diabrotica undecimpunctata

Monoxia consputa @

Family Coccinellidae

Coccinella californica

Coccinella septempunctata

Hippodamia convergens

Hippodamia quinquesignata

Olla v-nigrum

Psyllobora vigintimaculata

*Stethorus punctum picipes **

Undetermined taxa

Family Curculionidae

Apion proclive

Paragoges maculata

*Sphenophorus aequalis **

Tychius sp. @

Undetermined taxa

Family Dermestidae

Anthrenus sp. @

Family Dytiscidae

*Colymbetes sp. **

Laccophilus decipiens

Thermonectus basillaris

Family Elateridae

*Agriotes sp. **

Euthysanius sp.

Family Heteroceridae

Heterocerus sp.

*Orthellia caesarion **

Family Hydrophilidae

Enochrus diffusus

Tropisternus lateralis

Tropisternus sp.

Family Meloidae

*Lytta sp. **

Nemognatha lurida apicalis

Family Scarabaeidae

Aphodius sp. @

Coenonycha sp.

Cyclocephala sp.

Plectrodes pubescens @

Polyphylla stellata

*Serica anthracina **

Family Tenebrionidae

Amphidora littoralis @

Blapstinus sp. @

Coniontis sp.

Eleodes sp.

Eulabis bicarinata

Nyctoporis sp. @

Order Dermaptera (Earwigs)

Family Forficulidae

Forficula auricularia

Order Diptera (Flies)

Family Anthomyiidae

Adia cinerella

Family Anthomyzidae

Anthomyza sp. @

Family Apioceridae

*Apiocera chrysolasia **

Family Asilidae

Asilus sp.

*Efferia albibarbis**

*Efferia antiochi **

*Efferia cana**

*Stenopogon brevisculus **

*Stenopogon obscuriventris *@*

Family Bibionidae
Biblio albipennis *

Family Bombyliidae
Aphoebanius sp. *
Bombylius sp. *
Hemipenthes sp. *
Thyridanthrax sp. *
Toxophora sp. *
Villa sp.
Undetermined taxon

Family Calliphoridae
Eucalliphora lilaea
Phaenicia serricata

Family Cecidomyiidae
Cordylomyia sp. *

Family Chironomidae
Chironomus decorus
Chironomus staegeri
Hydrobaenus sp.
Procladius sp. *
Symbiocladius equitans @

Family Conopidae
Physocephala texana *
Physoconops fronto

Family Culicidae
Aedes washinoi @
Culex erythrothorax @
Culex tarsalis
Culiseta incidens
Culiseta inornata
Culiseta particeps @

Family Dolichopodidae
Dolichopus sp. @
Hydrophorus sp. @
Medetera sp. @

Family Empididae
Platypalpus sp. *

Family Ephydriidae
Mosillus sp.

Family Helcomyzidae
Pseudoleria sp. *
Suillia limbata @

Family Muscidae
Musca domestica

Family Mycetophilidae
Mycomya sp.

Family Otitidae
Ceroxys latiusculus *

Family Sarcophagidae
Euphytomima sp.

Liopygia sp. *
Ravinia sp. @

Family Scathophagidae
Scathophaga sp. @

Family Sepsidae
Sepsis sp. @

Family Simuliidae
Metacnephia sp.

Family Sphaeroceridae
Leptocera fontinalis @
Leptocera (Rachispoda) sp.

Family Syrphidae
Epistrophe sp.
Eristalinus aeneus
Eristalis sp.
Helophilus latifrons @
Paragus tibialis
Platycheirus sp. @
Syritta pipiens

Family Tabanidae
Chrysops coloradensis *

Family Tachinidae
Archytas apicifer *
Cylindromyia sp. @
Gonia sp. *
Gymnosoma sp. *
Tachina sp. @

Family Tephritidae
Dioxnya sororcula @
Tephritis californica @

Family Therevidae
Acrosathe sp. *

Family Tipulidae
Tipula californica @
Tipula sp. *

Order Hemiptera (True Bugs)

Family Alydidae
Alydus sp. *

Family Berytidae
Jalysus sp. @

Family Corixidae
Corisella decolor
Trichocorixa reticulata

Family Cydnidae
Microporus testudinatus @

Family Lygaeidae
Eremocoris sp. *
Geocoris niger @

Geocoris sp. @
Lygaeus kalmii *
Neocoryphus bicrucis
Nyssius sp.

Family Miridae
Adelphocoris superbus @
Irbisia californica
Lopidea sp.
Lygus hesperus

Family Nabidae
Nabis sp. @

Family Pentatomidae
Chlorochroa ligata *
Chlorochroa sayi *
Murgantia histrionica

Family Rhopalidae
Arhyssus sp. *

Family Saldidae
Saldula pallipes @

Order Homoptera (Cicadas, Hoppers, etc)

Family Cicadellidae
Undetermined taxa

Family Cicadidae
Okanagana sp. *

Family Dictyopharidae
Scolops sp.

Family Membracidae
Undetermined taxa @

Order Hymenoptera (Bees, Wasps & Ants)

Family Andrenidae
Andrena sp.
Perdita sp. *

Family Anthophoridae
Anthophora sp.
Melissodes sp.
Nomada sp. *
Zacosmia maculata maculata

Family Apidae
Apis mellifera
Bombus sonorensis
Bombus vosnesenskii
Xylocopa brasilianorum @

Family Argidae
Sterictophora sp. *

Family Braconidae
Undetermined taxa

Family Chalcididae
Undetermined taxon

Family Chrysididae
Argochrysis mesillae *
Chrysis lucidera *
Chrysis vagabunda *
Hedychridium fletcheri *
Hedychrum boharti *
Parnopes edwardsi *

Family Colletidae
Colletes sp. @

Family Eumenidae
Undetermined taxon

Family Halictidae
Agapostemon sp. *
Dieunomia nevadensis angelisis *
Halictus sp. *
Lassioglossum sp.
Sphecodes sp. *

Family Ichneumonidae
Diplazon laetatorius @
Ophion sp. @
Undetermined taxa

Family Megachilidae
Anthidiellum notatum robertsoni *
Anthidium utahense *
Ashmeadiella sp.
Megachile sp. *
Osmia sp. *

Family Mutillidae
Dasymutilla abdita
Dasymutilla aureola pacifica @
Dasymutilla coccineohirta
Dasymutilla flammifera *
Dasymutilla sackeni
Sphaerophthalma sp.

Family Pompilidae
Anoplius cleora *
Anoplius nigritis *
Aporinellus completus *
Sericopompilus neotropicalis *
Tachypompilus unicolor unicolor *
Undetermined taxa

Family Sphecidae
Ammophila sp.
Bembix americana comata *
Bembix occidentalis
Bicyrtes ventralis *
Cerceris californica *
Cerceris finitima *
Cerceris frontata *
Cerceris vanduzeei
Chalybion californica *
Dryudella sp. *

Clypeadon californica *
Isodontia elegans *
Philanthus multimaculatus *
Philanthus pacifica *
Podalonia luctuosa *
Prionyx sp. *
Sphex lucae
Sphex pennsylvanica *
Steniolia scolopacea *
Undetermined taxa

Family Tenthredinidae
Tenthredo sp. *

Family Tiphidae
Paratiphia nevadensis *

Family Vespidae
Mischocyttarus flavitarsus @
Polistes apachus *
Polistes fuscatus aurifer
Vespula pennsylvanica
Undetermined taxa

Order Lepidoptera (Butterflies & Moths)

Family Arctiidae
Apantesis proxima *
Estigmene acraea *

Family Danaidae
Danaus plexippus

Family Hesperidae
Hylephila phyleus
Pholisora cantullus *
Pyrgus communis

Family Lycaenidae
Callophrys affinis perplexa
Everes amyntula *
Plebejus acmonii
Strymon melinus

Family Noctuidae
Caenurgina crassiuscula
Syneda sp. @
Trichoplusia ni @

Family Nymphalidae
Coenonympha californica
Nymphalis antiopa
Phyciodes mylitta
Precis coenia
Vanessa carye

Family Papilionidae
Papilio zelicaon

Family Pieridae
Colias eurytheme
Euchloe ausinoides
Pieris rapae
Pieris protodice

Family Riodinidae
Apodemia mormo langei

Family Sphingidae
Proserpinus clarkiae *

Order Neuroptera (Lacewings, Antlions, etc)

Family Hemerobiidae
Symphorobius sp. @

Family Myrmeleontidae
Brachynemurus pregrinus

Family Raphidiidae
Agulla sp. *

Order Odonata (Dragonflies & Damselflies)

Family Aeschnidae
Aeshna multicolor
Anax junius

Family Coenagrionidae
Enallagma carunculatum
Enallagma civile

Family Libellulidae
Pachydiplax longipennis *
Tarnetrum costiferum
Tramea sp.

Order Orthoptera (Crickets, Roaches, etc)

Family Acrididae
Melanoplus cinereus dealbatus *
Trimerotropis pallidipennis

Family Gryllacrididae
Ceuthophilus sp. @
Stenopelmatus sp. @

Family Mantidae
Iris oratoria *

Family Phasmatidae
Parabacillus hesperus *

Family Polypagidae
Arenivaga sp. @

Spiders, Scorpions, Wind Scorpions, Centipedes, Millipedes and Isopods have not yet been identified.

Many small bees, wasps and ants have yet to be determined. A few small beetles are also unidentified.

It is estimated that approximately 260 different kinds of insects have currently been collected from the refuge.

The microlepidoptera have essentially been ignored Because of the detailed studies performed by Jerry Powell. Their current status may need to be considered.

* indicates collection or observation of taxon at the Stamm Parcel.

@ indicates collection or observation of taxon at the Sardis Parcel.

No symbol by a taxon indicates that it was found at both refuge parcels.