Habitat Assessment (Short Form) Datasheet

Xerces Society's Western Monarch Count

Date _____ Survey Start Time _____ ☐AM / ☐PM

Observers (first & last names):

_____

Email Address (at least one):

_____

Is this a KNOWN (registered) or NEW (unregistered) site? (Circle one.)
Site ID # _____ Site Name _____

Ownership Information (e.g. List the name and contact info for property owner(s), especially if ownership change occurred. Leave blank if ownership is unclear or remains the same.

_____

_____

Site Access (defined in protocol document): ☐ Open Access / ☐ Limited Access / ☐ No Access

Directions to Site (Describe any special navigation directions that may be helpful for future volunteers e.g., parking area, trail names, landmarks, etc.)

_____

_____

_____

Weather and Microclimate

Cloud/fog cover: _____ %

Precipitation: ☐ none ☐ drizzle ☐ rain

Temperature: _____ ☐ °F ☐ °C

Wind Direction (direction wind is coming FROM), circle what applies:

☐ N / ☐ NE / ☐ NW / ☐ S / ☐ SE / ☐ SW / ☐ E / ☐ W / ☐ No wind (calm)

Monarchs Observed? ☐ Yes / ☐ No

If so, is there an associated count data sheet? ☐ Yes / ☐ No

If not, which monarch activities did you observe at the site (Clusters, flyers, loners, sunners, grounders, mating, dead)? _____

*Once you have completed this habitat assessment form, please complete a monarch count datasheet within the week.

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Habitat Information

Is there a wind buffer between the cluster trees/shrubs and the edge of the grove?

☐ Yes / ☐ No / ☐ No monarch clusters present.

If so, in what directions (circle all that apply)?

☐ N / ☐ NE / ☐ NW / ☐ S / ☐ SE / ☐ SW / ☐ E / ☐ W / ☐ No wind (calm)

Record the tree species present in the grove (check all that apply). If surveying in the Saline Valley, record the shrub species present.

__ ACXX: Acacias (*Acacia spp.*) __ BASA: Mule fat (*Baccharis salicifolia*) __ CUXX: Cypress (*Cupressus spp.*) __ EUCA: Red river gum (*Eucalyptus camaldulensis*) __ EUGL: Blue gum (*Eucalyptus globulus*) __ EUXX: Unknown or other Eucalyptus species (*Eucalyptus spp.*) __ HEMA: Monterey cypress *(Hesperocyparis macrocarpa*) __ LATR: Creosote bush *(Larrea tridentata*)	__ PICA: Canary island pine *(Pinus canariensis*) __ PIRA: Monterey pine (*Pinus radiata*) __ PITO: Torrey pine *(Pinus torreyana*) __ PIXX: Unknown or other pine (Pinus spp.) __ PLRA: Western sycamore (*Platanus racemosa*) __ POFR: Fremont cottonwood (*Populus fremontii*) __ PRPU: Screwbean mesquite (*Prosopis pubescens*) __ PSME: Douglas fir (*Pseudotsuga menziesii*)	__ PSME: Douglas fir (*Pseudotsuga menziesii*) __ QUAG: Coast live oak *(Quercus agrifolia*) __ SAXX: Willow (*Salix spp.*) __ SEGI: Giant sequoia (*Sequoiadendron giganteum*) __ SESE: Coastal redwood (*Sequoia sempervirens*) __ TAXX: Tamarisk (*Tamarix spp.*) __ ULXX: Elm (*Ulmus spp.*) Other: _____ _____ _____

Are there dead/diseased/hazard trees in the grove? ☐ Yes / ☐ No

If so, please describe their location, # of affected trees, and species _____

_____

Is there fresh water (not salty) available nearby? ☐ Yes / ☐ No

If so, what is/are the source(s)? Dew/Irrigation/Lake/Pond/Lagoon/Puddle/Seep/Spring/Stream/None observed/ Other:_____

Are nectar plants currently blooming nearby? ☐ Yes / ☐ No

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Record what species are present (check all that apply).

Native Species:	Native Species (cont.):	Non-native Species (cont.):
__Narrow leaf milkweed (*Asclepias fascicularis*) __ Mule fat/seep willow (*Baccharis salicifolia*, *Baccharis glutinosa*) __ Coyote brush (*Baccharis pilularis*) __ Arroyo willow (*Salix lasiolepis*) __ Other willow (*Salix* sp.) __ Monkeyflower (*Mimulus* sp.) __ Morning glory (*Calystegia* sp.) __ Miner's lettuce (*Claytonia perfoliata*) __ Dune groundsel/ragwort (*Senecio blochmaniae*) __ Mock heather (*Ericameria ericoides*) __ Crisp dune mint (*Monardella crispa*) __ California blackberry (*Rubus ursinus*) __ Manzanita (*Arctostaphylos* sp.) __ Blue blossom (*Ceanothus thyrsiflorus*) __ Western goldenrod (*Euthamia occidentalis*) __ Bluedicks (*Dipterostemon capitatus*)	__ Red alder (*Alnus rubra*) __ Aster (*Aster* sp.) __ Seaside fleabane (*Erigeron glaucus*) Other: _____ _____ _____ _____ Non-native Species: __ Tropical milkweed (*Asclepias curassavica*) __ Blue gum (*Eucalyptus globulus*) __ Red gum (*Eucalyptus camaldulensis*) __ Black mustard (*Brassica nigra*) __ Unknown or other mustard (*Brassica* sp.) __ Common dandelion (*Taraxacum officinale*) __ Ox-eye daisy (*Chrysanthemum leucanthemum*) __ Periwinkle (*Vinca major*) __ Butterfly bush (*Buddleia* sp.)	__ English ivy (*Hedera helix*) __ German ivy (*Senecio mikanioides*) __ Passionflower vine (*Passiflora* sp.) __ Bull thistle (*Cirsium vulgare*) __ Wild radish (*Raphanus sativus*) __ English daisy (*Bellis perennis*) __ White nightshade (*Solanum nodiflorum*) __ Iceplant (*Carpobrotus* sp., *Mesembryanthemum* sp.) __ Field bindweed (*Convolvulus arvensis*) __ Chrysanthemum (*Chrysanthemum* sp.) __ Klamath weed/tansy mustard (*Senecio* sp.) __ Lily-of-the-Nile (*Agapanthus africanus*) __ Sweet fennel (*Foeniculum vulgare*) __ Bottlebrush (*Callistemon* sp.) __ Lantana (*Lantana* sp.) __ Lemon (*Citrus limon*) __ Pride of madeira (*Echium fastuosum*) Other: _____ _____ _____ _____

Did you observe monarchs feeding on nectar? ☐ Yes / ☐ No

If yes, which species? _____

Record any threats or disturbances you observed INSIDE or DIRECTLY ADJACENT to the site (check all that apply).

__ Construction (active)	__ Tree trimming (branches)

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__ Drought stress (dead canopy, loss of leaves, epicormic sprouting) __ Erosion __ Fire damage __ Grove is too dense/shady __ Grove is too open/exposed __ High human visitation load (campsite, trail/sidewalk, business/residence) __ Nectar plant removal __ New development/building(s) __ Old/aging trees __ Pesticide use (likely) __ Pesticide use (observed) __ Proposed development or expansion of facilities __ Storm damage __ Tree clearing/cutting (cut to stump)	__ Trees diseased from Eucalyptus leaf beetle __ Trees diseased from Eucalyptus lerp psyllid __ Trees diseased from other/unknown source __ Trees diseased from pitch canker __ Underbrush removal/fuels management __ Utility structures or maintenance (powerlines, utility poles) __ Vehicle traffic (roads, highways, railroad) Other: _____ _____ _____ _____

Photos and Notes:

Take photos of relevant site characteristics, and describe them below. Optionally include photo location GPS coordinates if relevant (These may be automatically collected in your photo's metadata).

Camerapoint Description: _____

_____

Photopoint #1 Description: _____

_____

Photopoint #2 Description: _____

_____

Notes:

Overall Site Sketch

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Provide a sketch here or on the back of the datasheet; utilize aerial maps, ArcGIS, Google Earth, Google Maps, or other programs to provide a more detailed map of the site and its major features, including cluster locations, if possible.

Please provide GPS coordinates of the grove's boundaries. If the grove is an odd-shaped polygon or many cluster trees, please draw a map on the back of this sheet, or make a shapefile/kmz using Google Earth or GIS products.

GPS Point of Grove's Northern corner: _____N _____W Accuracy (ft): _____
GPS Point of Grove's Eastern corner: _____N _____W Accuracy (ft): _____
GPS Point of Grove's Western corner: _____N _____W Accuracy (ft): _____
GPS Point of Grove's Southern corner: _____N _____W Accuracy (ft): _____

Datum of GPS Unit: ☐ NAD27 ☐ NAD83 ☐ WGS84 ☐ Smartphone ☐ Unknown

End Time _____ ☐AM / ☐PM

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