

## DOCKETED

<b>Docket Number:</b>	09-AFC-07C
<b>Project Title:</b>	Palen Solar Power Project - Compliance
<b>TN #:</b>	202498
<b>Document Title:</b>	Exh. 3095. Table 1. Plants & butterfly larval food plants on Palen
<b>Description:</b>	N/A
<b>Filer:</b>	Ileene Anderson
<b>Organization:</b>	Center for Biological Diversity
<b>Submitter Role:</b>	Intervenor
<b>Submission Date:</b>	6/23/2014 3:33:51 PM
<b>Docketed Date:</b>	6/23/2014

## Exhibit 3095

Table 1. Plants and the Larval Food Plants of butterflies at the proposed Palen solar plant

Plant species	Butterfly species
<i>Hesperocallis undulata</i>	
<i>Bouteloua barbata</i>	
<i>Festuca</i> species	
<i>Phalaris minor</i>	
<i>Pleuraphis rigida</i>	
<i>Schismus arabicus</i>	
<i>Vulpia octoflora</i>	
<i>Sesuvium verrucosum</i>	<i>Brephidium exilis</i>
<i>Trianthema portulacastrum</i>	
<i>Tidestromia oblongifolia</i>	
<i>Asclepias erosa</i>	<i>Danaus plexippus, Danaus gillippus</i>
<i>Cynanchum utahense</i>	
<i>Sarcostemma cynanchoides</i>	<i>Danaus gillippus</i>
<i>Ambrosia dumosa</i>	
<i>Atrichoseris platyphylla</i>	
<i>Baileya pauciradiata</i>	
<i>Baileya pleniradiata</i>	
<i>Bebbia juncea</i>	<i>Calephelis wrightii</i>
<i>Calycoseris wrightii</i>	
<i>Chaenactis carphoclinia</i>	
<i>Chaenactis fremontii</i>	
<i>Chaenactis stevioides</i>	
<i>Dicoria canescens</i>	
<i>Encelia farinosa</i>	
<i>Encelia frutescens</i>	
<i>Geraea canescens</i>	
<i>Hymenoclea salsola</i>	
<i>Isocoma acradenia</i>	
<i>Malacothrix glabrata</i>	
<i>Monoptilon bellioides</i>	
<i>Palafoxia arida</i>	<i>Nathalis iole</i>
<i>Pectis papposa</i>	
<i>Perityle emoryi</i>	
<i>Psathyrotes ramosissima</i>	
<i>Rafinesquia neomexicana</i>	
<i>Stylocline gnaphaloides</i>	
<i>Trichoptilium incisum</i>	
<i>Amsinckia menziesii</i>	<i>Vanessa cardui</i>
<i>Amsinckia tessellata</i>	<i>Vanessa cardui</i>

*Cryptantha angustifolia*  
*Cryptantha barbigera*  
*Cryptantha costata*  
*Cryptantha maritima*  
*Cryptantha micrantha*  
*Cryptantha nevadensis*  
*Cryptantha pterocarya*  
*Heliotropium convolvulaceum*  
*Pectocarya heterocarpa*  
*Pectocarya platycarpa*  
*Tiquilia plicata*  
*Brassica tournefortii*  
*Dithyrea californica*  
*Guillenia lasiophyllum*  
*Pontia*

*Anthocharis cethura*, *Pontia protodice*,  
*beckeri*

*Lepidium lasiocarpum*  
*Sisymbrium irio*  
*Streptanthella longirostris*  
*Echinocactus polycephalus*  
*Echinocereus engelmannii*  
*Ferocactus cylindraceus*  
*Mammillaria tetrancistra*  
*Opuntia bigelovii*  
*Opuntia echinocarpa*  
*Opuntia ramosissima*  
*Nemacladus glanduliferus*  
*Achyronychia cooperi*  
*Atriplex canescens*  
*Atriplex polycarpa*  
*Monolepis nuttalliana*  
*Salsola tragus*  
*Suaeda moquinii*  
*Brandegea bigelovii*  
*Cuscuta species*  
*Chamaesyce micromera*  
*Chamaesyce polycarpa*  
*Chamaesyce setiloba*  
*Croton californicus*  
*Ditaxis serrata*  
*Ditaxis lanceolata*  
*Ditaxis neomexicana*  
*Stillingia spinulosa*  
*Acacia gregii*  
*Astragalus aridus*  
*Astragalus didymocarpus*

*Hesperopsis libya*, *Brephidium exilis*  
*Hesperopsis libya*, *Brephidium exilis*

*Leptotes marinus*, *Hemiargus ceraunus*  
*Colias eurytheme*

*Astragalus insularis*  
*Cercidium floridum*  
*Dalea mollis*  
*Dalea mollissima*  
*Lotus strigosus*  
*Lupinus arizonicus*  
*Lupinus concinnus*  
*Marina parryi*  
*Olneya tesota*  
*Prosopis glandulosa*  
*Leptotes*

*Psorothamnus emoryi*  
*Psorothamnus schottii*  
*Psorothamnus spinosus*  
*Fouquieria splendens*  
*Erodium texanum*  
*Emmenanthe penduliflora*  
*Nama demissum*  
*Nama pusillum*  
*Phacelia crenulata*  
*Phacelia distans*  
*Phacelia neglecta*  
*Krameria grayi*  
*Hyptis emoryi*  
*Salvia columbariae*  
*Mentzelia affinis*  
*Mentzelia albicaulis*  
*Mentzelia involucreta*  
*Petalonyx thurberi*  
*Eremalche exilis*  
*Eremalche rotundifolia*  
*Abronia villosa*  
*Allionia incarnata*  
*Camissonia boothii*  
*Camissonia brevipes*  
*Camissonia claviformis*  
*Oenothera deltoides*  
*Oenothera primiveris*  
*Orobanche cooperi*  
*Eschscholzia glyptosperma*  
*Eschscholzia minutiflora*  
*Eschscholzia parishii*  
*Plantago ovata*  
*Eriastrum harwoodii*

*Erynnis funerallis*

*Colias eurytheme*, *Vanessa cardui*  
*Colias eurytheme*, *Vanessa cardui*  
*Colias cessionia*  
*Erynnis funerallis*  
*Ministrymon leda*, *Apodemia palmeri*,

*marinus*, *Hemiargus ceraunus*,  
*Hemiargus isola*

*Precis coenia*

*Eriastrum sparsiflorum*  
*Gilia stellata*  
*Langloisia setosissima*  
*Linanthus jonesii*  
*Loeseliastrum schottii*  
*Chorizanthe brevicornu*  
*Chorizanthe corrugata*  
*Chorizanthe rigida*  
*Eriogonum inflatum* *Apodemia mejicanus (mormo) deserti*  
*Eriogonum thomasii*  
*Calandrinia ambigua*  
*Oligomeris linifolia*  
*Datura discolor*  
*Lycium andersonii*  
*Nicotiana obtusifolia*  
*Petunia parviflora*  
*Tamarix species*  
*Phoradendron californica* *Atlides halesus*  
*Fagonia laevis*  
*Kallistromia californica*  
*Larrea tridentata*

The list of plants is from the Palen Solar Plant Fall Botanical Surveys (October 26, 2010 – TN58879). They have been organized as to family in alphabetical order. Some plants may have been missed by this survey. There are other potential butterfly species such as *Philotiella speciosa* which could use one of the different *Chorizanthe* species (Exhibit 3112 - Figure 11) since it has been recorded on the closely related spineflower *Mucronia californica*. Other butterflies could wander on site due to the presence of the larval food plants nearby or off site. Some butterflies can travel great distances.