

**COSUMNES RIVER PRESERVE - Vascular Plant Species Observed on the Castello, Denier, Shaw, and Whaley Properties, Sacramento County**

Scientific Name	Common Name	Growth Habit	Wetland		Family	Castello Property	Shaw Property	Denier Property	Whaley Property
			Indicator	Status					
<i>Abutilon theoprasiti</i> *	Velvet-leaf	AH	NI		Malvaceae		X		
<i>Acer negundo ssp. californicum</i>	Box elder	T	FACW		Aceraceae	X	X	X	X
<i>Achyrochaena mollis</i>	Blow wives	AH	FAC*		Asteraceae	X		X	
<i>Aegilops triuncialis</i> *	Barbed goat grass	AG	.		Poaceae		X		
<i>Aesculus californica</i>	California buckeye	T	.		Hippocastanaceae		X		
<i>Ailanthus altissima</i> *+	Tree-of-heaven	T	FACU		Simaroubaceae	X			
<i>Aira caryophylla</i> * [ <i>Aspris</i> c.]	Silver hairgrass	AG	.		Poaceae	X		X	
<i>Alisma plantago-aquatica</i> var. <i>americana</i> [ <i>A. triviale</i> ]	Broadleaf water-plantain	PH	OBL		Alismaceae	X		X	
<i>Allium amplexens</i>	Narrowleaved onion	PH	.		Liliaceae			X	
<i>Alnus rhombifolia</i>	White alder	T	FACW		Betulaceae	X			
<i>Alopecurus saccatus</i>	Pacific foxtail	AG	OBL		Poaceae	X		X	
<i>Amaranthus blitoides</i> [ <i>A. graecizans</i> ]	Prostrate amaranth	AH	FACW		Amaranthaceae	X		X	
<i>Ambrosia artemisiifolia</i>	Common ragweed	AH	.		Asteraceae	X			
<i>Amsinckia menziesii</i> var. <i>intermedia</i> [ <i>A. i.</i> ]	Rancher's fire	AH	.		Boraginaceae	X		X	X
<i>Anagallis arvensis</i> *	Scarlet pimpernel	AH	FAC		Primulaceae	X	X	X	
<i>Anthemis cotula</i> *	Mayweed	AH	FACU		Asteraceae	X	X	X	X
<i>Aphanes occidentalis</i> [ <i>Alchemilla occidentalis</i> ]	Dew-cup	AH	.		Rosaceae	X		X	
<i>Apocynum cannabinum</i>	Clasping-leaf dogbane	PH	FAC		Apocynaceae	X			
<i>Aristida oligantha</i>	Three-awn	PG	.		Poaceae			X	
<i>Aristolochia californica</i>	California or Dutchman's pipevine	PV	.		Aristolochiaceae	X			
<i>Artemisia douglasiana</i>	Mugwort	PH	FACW		Asteraceae	X	X	X	X
<i>Asclepias fascicularis</i>	Narrow-leaved milkweed	PH	FAC		Ascepiadaceae	X	X	X	X
<i>Asclepias speciosa</i>	Greek or showy milkweed	PH	FAC		Ascepiadaceae	X	X		
<i>Aster chilensis</i> var. <i>chilensis</i>	Chilean aster	PH	FAC		Asteraceae	X	X		
<i>Aster subulatus</i> var. <i>ligulatus</i> [ <i>A. exilis</i> ]	Annual saltmarsh aster	AH	FACW		Asteraceae	X			X
<i>Avena barbata</i> *	Slender wild oat	AG	.		Poaceae	X		X	X
<i>Avena fatua</i> * [ <i>A. f. var. glabrata</i> , <i>A. f. var. vilis</i> ]	Wild oat	AG	.		Poaceae	X	X	X	X
<i>Azolla filiculoides</i>	Fern-like azolla, (mosquito fern)	F	OBL		Azollaceae	X			X
<i>Baccharis pilularis</i> [ <i>B. p. ssp. consanguinea</i> & <i>pilularis</i> ]	Coyote brush	S	.		Asteraceae	X	X		X
<i>Baccharis salicifolia</i> [ <i>B. viminea</i> , <i>B. glutinosa</i> ]	Mule fat, seep-willow	S	FACW		Asteraceae				X
<i>Beta vulgaris</i> *	Beet	AH	FACU		Chenopodiaceae	X			
<i>Bidens frondosa</i>	Stick tight, Devil's beggars-tick	AH	FACW		Asteraceae	X	X	X	X
<i>Blennosperma nanum</i>	Yellow carpet	AH	OBL		Asteraceae			X	
<i>Brassica nigra</i> *	Black mustard	AH	.		Brassicaceae	X			
<i>Brassica rapa ssp. syvestris</i> * [ <i>B. campestris</i> ]	Field mustard	AH	.		Brassicaceae	X	X	X	
<i>Briza minor</i> *	Little quakinggrass	AG	FACW-		Poaceae	X		X	
<i>Brodiaea elegans ssp. elegans</i> [ <i>B. e. var. mundula</i> ]	Elegant harvest brodiaea	PH	FACU		Liliaceae	X	X	X	X
<i>Bromus diandrus</i> *	Ripgut grass	AG	(FACU-)		Poaceae	X	X	X	X
<i>Bromus hordeaceus</i> * [ <i>B. mollis</i> , <i>B. racemosus</i> ]	Soft chess	AG	FACU-		Poaceae	X	X	X	X
<i>Bromus madritensis ssp. rubens</i> * [ <i>B. r.</i> ]	Red brome	AG	NI		Poaceae	X			
<i>Callitriche marginata</i> [ <i>C. longipedunculata</i> ]	California water-starwort	PH	OBL		Callitrichaceae	X		X	

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<i>Calochortus luteus</i> var. <i>luteus</i>	Yellow Mariposa lily	PH	.		Liliaceae			X	
<i>Cannabis sativa</i> ssp. <i>sativa</i> +*	Marijuana	AH	FACU*		Moraceae	X			
<i>Capsella bursa-pastoris</i> *	Shepherd's purse	AH	FAC-		Brassicaceae	X	X	X	X
<i>Carduus pycnocephalus</i> *	Italian thistle	AH	.		Asteraceae	X	X	X	X
<i>Carex barbarae</i>	Barbara sedge	PH	FACW		Cyperaceae	X	X	X	X
<i>Carex praegracilis</i> [C. <i>camporum</i> ]	Clustered field sedge	PH	FACW-		Cyperaceae	X	X		
<i>Castilleja attenuata</i> [Orthocarpus <i>attenuatus</i> ]	Valley tassels	AH	.		Scrophulariaceae	X		X	
<i>Castilleja campestris</i> ssp. <i>campestris</i> [Orthocarpus <i>c.</i> ]	Valley tassels	AH	OBL		Scrophulariaceae			X	
<i>Castilleja exserta</i> ssp. <i>exserta</i> [Orthocarpus <i>purpurescens</i> ]	Purple owl's-clover	AH	.		Scrophulariaceae			X	
<i>Celtis reticulata</i> + [C. <i>douglasii</i> ] ?	Netleaf hackberry	T	FACW*		Ulmaceae		X		
<i>Centaurea solstitialis</i> *	Yellow star-thistle	AH	.		Asteraceae	X	X	X	X
<i>Centaureum floribundum</i> = C. <i>muehlenbergii</i>	June centauray	AH	FACW		Gentianaceae		X		
<i>Centunculus minimus</i> [Anagallis <i>minima</i> ]	Chaffweed	AH	FACW		Primulaceae			X	
<i>Cephalanthus occidentalis</i> var. <i>californicus</i>	Buttonbush	S	OBL		Rubiaceae	X	X	X	X
<i>Cerastium arvense</i> var. <i>arvense</i> [C. <i>a.</i> var. <i>villosum</i> ]	Mouse-ear chickweed	AH	FAC		Caryophyllaceae	X	X		
<i>Cerastium glomeratum</i> * [C. <i>viscosum</i> ]	Mouse-ear chickweed	AH	FACU		Caryophyllaceae	X	X	X	X
<i>Chamaesyce ocellata</i> [Euphorbia <i>o.</i> ]	Littleeye spurge	AH	.		Euphorbiaceae		X		
<i>Chamomilla suaveolens</i> * [Matricaria <i>matricarioides</i> ]	Pineapple weed	AH	FACU		Asteraceae	X	X	X	
<i>Chenopodium album</i> *	Lambsquarter	AH	FAC		Chenopodiaceae	X	X		
<i>Chenopodium ambrosioides</i> * [C. <i>a.</i> vars.]	Mexican tea	PH	FAC		Chenopodiaceae	X	X	X	X
<i>Chlorogalum pomeridianum</i> var. <i>pomeridianum</i>	Common soap plant	PH	.		Liliaceae	X	X	X	
<i>Cichorium intybus</i> *	Chicory	PH	.		Asteraceae	X	X	X	X
<i>Cirsium vulgare</i> * [C. <i>lanceolatum</i> ]	Bull thistle	AH	FACU		Asteraceae	X	X		
<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i> [C. <i>q.</i> , <i>Godetia q.</i> ]	Four-spotted godetia, winecup clarkia	AH	.		Onagraceae			X	
<i>Claytonia perfoliata</i> ssp. <i>perfoliata</i> [Montia <i>p.</i> ]	Miner's lettuce	AH	FAC		Portulacaceae	X			X
<i>Clematis ligusticifolia</i> var. <i>californica</i>	California pipestem clematis	PV	FAC		Ranunculaceae		X		
<i>Conium maculatum</i> *	Poison-hemlock	PH	FACW		Apiaceae	X	X	X	X
<i>Convolvulus arvensis</i> *	Bind weed	PV	.		Convolvulaceae	X	X	X	X
<i>Conyza canadensis</i> var. <i>canadensis</i>	Western horseweed	AH	FAC		Asteraceae	X	X	X	X
<i>Crassula aquatica</i> [C. <i>saginoidea</i> ]	Water pygmy-stonecrop	AH	OBL		Crassulaceae	X		X	X
<i>Crypsis schoenoides</i> * [Heleochloa <i>s.</i> ]	Swamp timothy	AG	OBL		Poaceae	X	X	X	X
<i>Cuscuta howelliana</i>	Boggs Lake dodder	AV	.		Cuscutaceae			X	
<i>Cynodon dactylon</i> *	Bermuda grass	PG	FAC		Poaceae	X	X	X	X
<i>Cyperus eragrostis</i>	Umbrella-sedge	PH	FACW		Cyperaceae	X	X		
<i>Cyperus esculentus</i> *	Yellow nutgrass, chufa	PH	FACW		Cyperaceae	X	X	X	X
<i>Damasonium californicum</i>	Damasonium	PH	OBL		Alismataceae			X	
<i>Datura stramonium</i>	Jimson weed	AH	.		Solanaceae	X			
<i>Daucus carota</i> *	Wild carrot	BH	.		Apiaceae	X	X		
<i>Delphinium variegatum</i> ssp. <i>variegatum</i>	Royal larkspur	PH	.		Ranunculaceae			X	
<i>Deschampsia danthanoidea</i>	Annual hairgrass	AG	FACW		Poaceae	X		X	
<i>Dichelostemma capitatum</i> ssp. <i>capitatum</i> [D. <i>pulchellum</i> ]	Blue dicks, northern saitas	PH	.		Amaryllidaceae	X		X	
<i>Dichelostemma congestum</i>	Ookow	PH	.		Liliaceae				

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<i>Digitalis purpurea</i> var. <i>purpurea</i> *	Purple foxglove	PH	.		Scrophulariaceae	X			
<i>Distichlis spicata</i> var. <i>spicata</i> [ <i>D. s.</i> vars.]	Coastal saltgrass	PG	FACW		Poaceae	X			
<i>Downingia bicornuta</i>	Purple-horned downingia	AH	OBL		Campanulaceae	X		X	
<i>Downingia ornatissima</i>	Ornate downingia	AH	OBL		Campanulaceae			X	
<i>Echinodorus berteri</i>	Bur head	PH	OBL		Alismataceae	X	X	X	X
<i>Echinochloa crusgalli</i> *	Barnyard grass	PG	FACW		Poaceae	X			
<i>Eleocharis acicularis</i>	Slender spike-rush	PH	OBL		Cyperaceae		X	X	
<i>Eleocharis macrostachya</i> [ <i>Heleocharis palustris</i> , <i>E. p.</i> ]	Common spike-rush	PH	OBL		Cyperaceae	X	X	X	X
<i>Elodea canadensis</i>	Broad water-weed	PH	OBL		Hydrocharitaceae			X	
<i>Epilobium brachycarpum</i>	willow-hrb	AH	FAC		Onagraceae	X		X	
<i>Epilobium densiflorum</i> [ <i>Boisduvalia densiflora</i> ]	Dense-flowered spike-primrose	AH	OBL		Onagraceae	X			
<i>Epilobium paniculatum</i>	Panicled willow-herb	AH	.		Onagraceae	X	X	X	
<i>Epilobium pygmaeum</i> [ <i>Boisduvalia glabella</i> , <i>B. g.</i> var. <i>campestris</i> ]	Smooth spike-primrose	AH	FACW		Onagraceae	X		X	
<i>Equisetum hyemale</i> var. <i>affine</i> [ <i>E. a.</i> , <i>h.</i> var. <i>californicum</i> , <i>h.</i> var. <i>r</i> ]	Rough horsetail	PF	FACW		Equisetaceae				X
<i>Eremocarpus setigerus</i>	Dove weed	AH	.		Euphorbiaceae	X	X	X	X
<i>Erigeron philadelphicus</i> ?	Philadelphia fleabane	BH	FAC		Asteraceae		X		
<i>Erodium botrys</i> *	Long-beaked filaree	AH	.		Geraniaceae	X		X	
<i>Erodium cicutarium</i> *	Redstem filaree	AH	.		Geraniaceae	X	X	X	
<i>Erodium moschatum</i> *	Whitstem filaree	AH	.		Geraniaceae	X			
<i>Eryngium vaseyi</i> var. <i>vaseyi</i> [ <i>E. v.</i> var. <i>vallicola</i> ]	Vasey's coyote-thistle	PH	FACW		Apiaceae	X		X	
<i>Eschscholzia californica</i> var. <i>californica</i>	California poppy	AH	.		Papaveraceae	X	X	X	
<i>Eucalyptus globulus</i> +	Tasmanian blue gum	T	.		Myrtaceae	X			
<i>Euthamia occidentalis</i> [ <i>Solidago o.</i> ]	Western goldenrod	PH	OBL		Asteraceae	X	X		X
<i>Festuca arundinacea</i> * [ <i>F. elatior</i> var. <i>a.</i> ]	Kentucky fescue, (tall fescue)				Poaceae		X		
<i>Ficus carica</i> *+	Common fig	T	.		Moraceae		X	X	
<i>Foeniculum vulgare</i> *	Sweet fennel	PH	FACU		Apiaceae	X	X	X	
<i>Fraxinus latifolia</i> [ <i>F. oregona</i> ]	Oregon ash	S	FACW		Oleaceae	X	X	X	X
<i>Geranium dissectum</i> *	Dissected geranium	AH	.		Geraniaceae	X			
<i>Glyceria declinata</i> *	Manna grass	PG	OBL		Poaceae	X		X	
<i>Glycyrrhiza lepidota</i> var. <i>glutinosa</i>	American licorice	PH	FAC+		Fabaceae		X		X
<i>Gnaphalium palustre</i>	Lowland cudweed	AH	FACW-		Asteraceae	X	X		X
<i>Gratiola ebracteata</i>	Bractless hedge-hyssop	AH	OBL		Scrophulariaceae	X		X	
<i>Grindelia camporum</i> var. <i>camporum</i>	Great Valley gumplant	S	FACU		Asteraceae	X			
<i>Helianthus annuus</i> [ <i>H. a.</i> spp. <i>lenticularis</i> ]	Western sunflower	AH	FAC-		Asteraceae	X	X	X	X
<i>Hemizonia fitchii</i>	Fitch's tarplant	AH	.		Asteraceae	X		X	
<i>Hemizonia pungens</i> [ <i>H. laevis</i> in part]	Spikeweed	AH	FAC		Asteraceae	X	X		
<i>Hesperavx caulescens</i> [ <i>Evax c.</i> ]	Evax	AH	OBL		Asteraceae			X	
<i>Holocarpa virgata</i> ssp. <i>virgata</i>	Virgate tarweed	AH	.		Asteraceae	X		X	
<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i> [ <i>H. boreale</i> ]	Meadow barley	PG	FACW		Poaceae		X		X
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> * [ <i>H. geniculatum</i> ]	Mediterranean barley	AG	FAC		Poaceae	X	X	X	X
<i>Hordeum murinum</i> ssp. <i>leporinum</i> * [ <i>H. l.</i> ]	Hare barley	AG	NI		Poaceae	X	X	X	X
<i>Hypericum perforatum</i> *	Klamath weed	PH	.		Hypericaceae	X	X		

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<i>Isoetes howellii</i>	Howell's quillwort	PF	OBL	.	Isoetaceae			X	
<i>Juglans hindsii</i> (introduced native)	Northern California black walnut	T	FAC	.	Juglandaceae	X	X	X	X
<i>Juncus balticus</i> var. <i>balticus</i> [ <i>J. arcticus</i> var. <i>b.</i> ]	Baltic rush	PH	OBL	.	Juncaceae	X	X		
<i>Juncus bufonius</i> var. <i>bufonius</i>	Common toad rush	AH	OBL	.	Juncaceae	X	X	X	X
<i>Juncus effusus</i> var. <i>pacificus</i>	Bog rush	PH	OBL	.	Juncaceae				X
<i>Juncus xiphioides</i> var. <i>xiphioides</i>	Iris-leaved rush	PH	OBL	.	Juncaceae	X	X	X	X
<i>Lactuca serriola</i> *	Prickly wild lettuce	AH	FAC	.	Asteraceae	X	X	X	X
<i>Lamium amplexicaule</i> *	Henbit	AH	.	.	Lamiaceae		X		
<i>Lasthenia fremontii</i>	Fremont goldfields	AH	OBL	.	Asteraceae	X		X	
<i>Lasthenia glaberrima</i>	Rayless goldfields	AH	OBL	.	Asteraceae	X		X	
<i>Lasthenia glabrata</i> ssp. <i>glabrata</i>	Yellow-ray goldfields	AH	FACW	.	Asteraceae			X	
<i>Lathyrus jepsonii</i> var. <i>californicus</i> [ <i>L. j.</i> ssp. <i>c.</i> ]	California peavine	PV	.	.	Fabaceae	X	X		
<i>Layia chrysanthemoides</i>	Tidy tips	AH	.	.	Asteraceae			X	
<i>Layia fremontii</i>	Fremont tidy tips	AH	.	.	Asteraceae			X	
<i>Lemna minor</i>	Lesser duckweed	AH	OBL	.	Lemnaceae	X	X	X	X
<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i> * [ <i>L. leysleri</i> ]	Hairy hawkbit	PH	FACU	.	Asteraceae	X		X	X
<i>Lepidium latifolium</i> *	Broadleaf peppergrass	PH	FACW	.	Brassicaceae	X	X		X
<i>Lepidium nitidum</i>	Common peppergrass	AH	.	.	Brassicaceae	X		X	
<i>Leymus triticoides</i> [ <i>Elymus</i> t.]	Creeping or alkali rye-grass	PG	FAC+	.	Poaceae	X	X	X	X
<i>Limnanthes alba</i> var. <i>alba</i>	White meadow-foam	AH	OBL*	.	Limnanthaceae			X	
<i>Lolium multiflorum</i> * [ <i>L. m.</i> varieties, <i>L. perenne</i> ssp. <i>m.</i> ]	Italian ryegrass	AG	FAC*	.	Poaceae	X	X	X	X
<i>Lolium perenne</i> * [ <i>L. p.</i> var. <i>aristatum</i> , <i>L. p.</i> var. <i>crispatum</i> ]	English ryegrass, (perennial ryegrass)			.	Poaceae		X		X
<i>Lotus corniculatus</i> *	Bird's-foot trefoil	PH	FAC	.	Fabaceae	X	X	X	X
<i>Lotus purshianus</i>	Pursh's lotus	AH	.	.	Fabaceae	X			
<i>Ludwigia repens</i> * [ <i>Jussiaea</i> r. var. <i>peploides</i> ]	Yellow water-primrose	PH	OBL	.	Onagraceae	X			
<i>Lupinus bicolor</i>	Bicolored lupine	AH	.	.	Fabaceae	X	X	X	
<i>Lupinus succulentus</i>	Fleshy lupine	AH	.	.	Fabaceae	X			
<i>Lythrum hyssopifolia</i> [ <i>L. adsurgens</i> ]	Hyssop loosestrife, wallow poly	AH/PH	FACW	.	Lythraceae	X	X	X	X
<i>Maclura pomifera</i> +	White mulberry	T	NI	.	Moraceae		X		
<i>Malus sylvestris</i> *+ [ <i>M. malus</i> , <i>Pyrus m.</i> ]	Common apple	T	.	.	Rosaceae	X			
<i>Malva neglecta</i> *	Common or small mallow	AH	.	.	Malvaceae	X	X		
<i>Malva parviflora</i> *	Cheeseweed	AH	.	.	Malvaceae	X			
<i>Malvella leprosa</i> [ <i>Sida</i> l. var. <i>hederacea</i> ]	Alkali mallow	PH	FAC	.	Malvaceae	X	X		X
<i>Marah fabaceus</i> [ <i>M. f.</i> var. <i>agrestis</i> ]	Man-root	PV	.	.	Cucurbitaceae	X	X		
<i>Marrubium vulgare</i> *	White horehound	S	FAC	.	Lamiaceae	X	X		
<i>Marsilea vestita</i>	Hairy pepperwort	PF	OBL	.	Marsileaceae	X			
<i>Medicago polymorpha</i> * [ <i>M. hispida</i> varieties]	Bur-clover	AH	(FACU-)	.	Fabaceae	X	X	X	
<i>Melilotus indica</i> *	Yellow sweetclover	AH	FAC	.	Fabaceae	X	X	X	X
<i>Mentha arvensis</i>	Field mint	PH	FACW	.	Lamiaceae	X			
<i>Mentha pulegium</i> *	Pennyroyal	PH	OBL	.	Lamiaceae	X	X	X	X
<i>Mimulus guttatus</i> ssp. <i>guttatus</i>	Common streamside monkeyflower	PH	OBL	.	Scrophulariaceae	X	X	X	X
<i>Mimulus tricolor</i>	Tricolor monkeyflower	AH	OBL	.	Scrophulariaceae	X		X	

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<i>Morus nigra</i> +	Black mulberry	T	.		Moraceae	X			
<i>Navarretia leucocephala</i> ssp. <i>leucocephala</i>	White-flowered navarretia	AH	OBL		Polemoniaceae	X	X	X	
<i>Navarretia squarrosa</i>	Skunkweed	AH	.		Polemoniaceae		X		
<i>Nicotiana acuminata</i> ssp. <i>multiflora</i> *	Wild tobacco	AH	.		Solanaceae	X			
<i>Oenothera elata</i> ssp. <i>hirsutissima</i> [ <i>O. hookeri</i> ssp. <i>venusta</i> ]	Great marsh evening primrose	BH	FACW		Onagraceae	X			
<i>Oxalis laxa</i> *	Lax wood-sorrel	AH	.		Oxalidaceae	X			
<i>Paspalum dilatatum</i> *	Dallis grass	PG	FAC		Poaceae	X	X	X	X
<i>Paspalum distichum</i>	Joint Dallis grass	PG	OBL		Poaceae	X			X
<i>Petrorhagia dubia</i> *+ [ <i>P. velutina</i> , <i>Tunica</i> v.]	Grass pink	AH	.		Caryophyllaceae	X			
<i>Phalaris aquatica</i> * [ <i>P. stenoptera</i> , <i>P. tuberosa</i> , <i>P. t. var. s.</i> ]	Harding grass	PG	FAC+		Poaceae	X	X		X
<i>Phalaris lemmonii</i>	Lemmon's canary grass	AG	FACW-		Poaceae	X		X	
<i>Phalaris paradoxa</i> *	Paradox canary grass	AG	(FACW)		Poaceae	X			
<i>Phoenix dactylifera</i> +	Date palm	T	.		Arecaceae	X			
<i>Phoradendron flavescens</i> var. <i>villosum</i> = <i>P. v.</i>	Oak mistletoe, (hairy mistletoe)				Viscaceae	X	X		
<i>Phyla nodiflora</i> [ <i>Lippia n. var. rosea</i> ]	Common frog-fruit	PH	FACW		Verbenaceae	X	X	X	X
<i>Picris echioides</i> *	Bristly ox-tongue	AH	FAC*		Asteraceae	X	X		X
<i>Pilularia americana</i>	American pillwort	PF	OBL		Marsileaceae			X	
<i>Plagiobothrys nothofulvus</i>		AH	FAC		Boraginaceae	X		X	
<i>Plagiobothrys stipitatus</i> var. <i>micranthus</i>	Small stipitate popcornflower	AH	OBL		Boraginaceae	X	X	X	X
<i>Plagiobothrys stipitatus</i> var. <i>stipitatus</i>	Stipitate popcornflower	AH	OBL		Boraginaceae			X	
<i>Plantago lanceolata</i> *	Narrowleaf plantain	PH	FAC-		Plantaginaceae	X	X	X	
<i>Plantago major</i> *	Broadleaf plantain	PH	FACW-		Plantaginaceae		X		
<i>Poa annua</i> var. <i>annua</i> *	Annual bluegrass	AG	FACW-		Poaceae	X	X		
<i>Poa bulbosa</i> *	Fruiting bluegrass	AG	.		Poaceae	X		X	
<i>Pogogyne douglasii</i>	Douglas' pogogyne	AH	OBL		Lamiaceae			X	
<i>Pogogyne zizyphoroides</i>	Sacramento mesamint	AH	OBL		Lamiaceae	X		X	
<i>Polygonum amphibium</i> [ <i>P. coccineum</i> var. <i>pratincola</i> ]	Water smartweed	PH	OBL		Polygonaceae	X			X
<i>Polygonum aviculare</i> var. <i>aviculare</i> * [ <i>P. heterophyllum</i> ]	Prostrate knotweed	AH	FAC		Polygonaceae	X	X	X	
<i>Polygonum hydropiperoides</i> var. <i>hydropiperoides</i> [ <i>Persicaria h.</i> ]	Swamp smartweed	PH	OBL		Polygonaceae	X			
<i>Polygonum punctatum</i> var. <i>punctatum</i> [ <i>Persicaria p.</i> ]	Dotted water smartweed	AH	OBL		Polygonaceae	X			
<i>Polypogon monspeliensis</i> *	Rabbitsfoot grass	AG	FACW+		Poaceae	X	X	X	X
<i>Populus fremontii</i> [ <i>P. f. ssp. f. vars. arizonica</i> & <i>macdougalii</i> ]	Fremont cottonwood	T	FACW		Salicaceae	X	X		X
<i>Portulaca oleraceus</i> *	Common purslane	AH	FAC		Portulacaceae	X			
<i>Prunus cerasifera</i> *	Cherry plum	T	.		Rosaceae	X	X	X	X
<i>Psilocarphus brevissimus</i>	Woolly marbles	AH	OBL		Asteraceae	X	X	X	
<i>Psilocarphus oregonus</i>	Oregon woolly-heads	AH	OBL		Asteraceae		X		
<i>Psilocarphus tenellus</i>	Slender woolly heads	AH	FAC		Asteraceae		X		
<i>Pyracantha angustifolia</i>	Firethorn	S			Rosaceae	X			
<i>Quercus lobata</i>	Valley oak	T	FAC*		Fagaceae	X	X	X	X
<i>Ranunculus aquatilis</i>	Hispid water buttercup	PH	OBL		Ranunculaceae	X			
<i>Ranunculus bonariensis</i> var. <i>trisepalus</i>	Vernal buttercup	AH	OBL		Ranunculaceae	X		X	X
<i>Ranunculus californicus</i> [ <i>R. c. vars.</i> ]	California buttercup	PH	NI*		Ranunculaceae	X			

**COSUMNES RIVER PRESERVE - Vascular Plant Species Observed on the Castello, Denier, Shaw, and Whaley Properties, Sacramento County**

Scientific Name	Common Name	Growth Habit	Wetland Indicator Status	Family	Castello	Shaw	Denier	Whaley
					Property	Property	Property	Property
<i>Ranunculus muricatus</i> *	Prickle-fruited buttercup	PH	FACW+	Ranunculaceae	X		X	
<i>Raphanus raphanestrum</i> *	Yellow wild raddish	AH	.	Brassicaceae	X			
<i>Raphanus sativus</i> *	Wild radish	AH	.	Brassicaceae	X	X	X	X
<i>Robinia pseudoacacia</i> *+	Black locust	T	FAC*	Fabaceae	X	X		
<i>Rosa californica</i>	California wild rose	S	FAC+	Rosaceae	X	X	X	X
<i>Rubus discolor</i> * [R. procerus]	Himalaya berry	PV	FAC	Rosaceae	X	X	X	X
<i>Rubus ursinus</i> [R. vitifolius ssp. u. & v.]	Pacific blackberry	PV	FACW*	Rosaceae	X	X	X	X
<i>Rumex dentatus</i> *	dock	AH or BH	.	Polygonaceae	X			
<i>Rumex crispus</i> *	Curly dock	PH	FACW-	Polygonaceae	X	X	X	X
<i>Rumex pulcher</i> *	Fiddle dock	PH	FAC+	Polygonaceae	X	X	X	X
<i>Sagittaria montevidensis</i> ssp. calycina	Hooded arrowhead		OBL	Alismataceae	X			
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	PH	OBL	Alismataceae			X	
<i>Salix exigua</i> [S. sessilifolia]	Narrowleaf willow	S	OBL	Salicaceae	X	X	X	X
<i>Salix gooddingii</i> [S. g. var. variabilis]	Black willow	T	OBL	Salicaceae	X	X	X	X
<i>Salix lasiolepis</i>	Arroyo willow	T	FACW	Salicaceae	X	X	X	X
<i>Sambucus mexicana</i> [S. caerulea var. m.]	Blue elderberry	S	FAC	Caprifoliaceae	X	X	X	X
<i>Sanicula bipinnata</i>	Poison sanicle	PH	.	Apiaceae	X			
<i>Saponaria officinalis</i> *	Bouncing bet			Caryophyllaceae	X	X		
<i>Scirpus acutus</i> var. occidentalis [S. lacustris, S. o.]	Viscid tule	PH	OBL	Cyperaceae	X	X	X	X
<i>Scirpus microcarpus</i> [S. m. vars. longispicatus & rubrotinctus]	Small-fruited bulrush	PH	OBL	Cyperaceae		X		
<i>Senecio vulgaris</i> *	Common groundsel	AH	NI*	Asteraceae	X	X	X	X
<i>Sidalcea calycosa</i>	Annual checker-mallow	AH	OBL	Malvaceae			X	
<i>Silybum marianum</i> *	Milk thistle	AH	.	Asteraceae	X	X		X
<i>Solanum nigrum</i> *	Black nightshade	AH	FACU	Solanaceae	X	X		
<i>Soliva sessilis</i> * [S. pterosperma]	Lawn burweed	AH	FAC	Asteraceae	X			
<i>Sonchus asper</i> *	Prickly sow-thistle	AH	FAC	Asteraceae	X	X	X	
<i>Sonchus oleraceus</i> *	Common sow-thistle	AH	NI*	Asteraceae	X	X	X	X
<i>Sorghum halepense</i> *	Johnson grass	PG	FACU	Poaceae	X	X	X	X
<i>Spergularia rubra</i> * [Tissa r.]	Purple sandspurry	AH	FAC-	Caryophyllaceae	X			
<i>Stachys albens</i>	Whitestem hedge-nettle	PH	OBL	Lamiaceae	X			
<i>Stellaria media</i> *	Common chickweed	AH	FACU	Caryophyllaceae	X	X	X	
<i>Symphoricarpos mollis</i> [S. a., S. m. var. a.]	Trailing snowberry	S	.	Caprifoliaceae		X		
<i>Taeniatherum caput-medusae</i> * [Elymus caput-medusae]	Medusa head	PG	.	Poaceae	X		X	
<i>Thysanocarpus curvipes</i> var. curvipes	Sand fringe-pod	AH	.	Brassicaceae			X	
<i>Torilis arvensis</i> * [T. japonica]	Hedge-parsley	AH	.	Apiaceae	X	X	X	
<i>Toxicodendron diversilobum</i> [Rhus diversiloba]	Poison oak	S/V	.	Anacardiaceae	X	X	X	X
<i>Tragopogon porrifolius</i> *	Salsify, oyster plant	BH	.	Asteraceae	X	X		
<i>Tribulus terrestris</i> *	Puncture weed, land caltrop	AH	.	Zygophyllaceae	X			
<i>Trifolium depauperatum</i> var. depauperatum [T. amplexens]	Dwarf sack clover	PH	FAC-	Fabaceae			X	
<i>Trifolium hirtum</i> *	Rose clover	AH	.	Fabaceae	X		X	X
<i>Trifolium tridentatum</i> [T. t. var. aciculare]	Tomcat clover	AH	.	Fabaceae			X	
<i>Trifolium variegatum</i>	Whitewitch clover	AH	FACW-	Fabaceae			X	

**COSUMNES RIVER PRESERVE - Vascular Plant Species Observed on the Castello, Denier, Shaw, and Whaley Properties, Sacramento County**

Scientific Name	Common Name	Growth Habit	Wetland		Family	Castello Property	Shaw Property	Denier Property	Whaley Property
			Indicator	Status					
<i>Triphysaria pusilla</i> [ <i>Orthocarpus pusillus</i> ]	Dwarf owl's clover	AH	.		Scrophulariaceae			X	
<i>Triteleia hyacinthina</i> [ <i>Brodiaea h.</i> ]	White triteleia	PH	FACW*		Liliaceae	X		X	
<i>Triteleia laxa</i> [ <i>Brodiaea l.</i> ]	Ithuriel's spear	PH	.		Liliaceae	X		X	
<i>Triticum aestivum</i> *	Cultivated wheat	AG	.		Poaceae	X		X	
<i>Typha latifolia</i>	Broad-leaved cattail, soft flag	PH	OBL		Typhaceae	X	X	X	X
<i>Urtica dioica</i> ssp. <i>holosericea</i>	California creek nettle	PH	FACW		Urticaceae	X	X	X	X
<i>Verbascum blattaria</i> *	Moth mullein	BH	FACW		Scrophulariaceae	X	X	X	X
<i>Verbascum thapsus</i> *	Common mullein	BH	(FAC)		Scrophulariaceae	X			
<i>Verbena bonariensis</i> *	South American vervain	AH/BH	FACW		Verbenaceae	X	X		
<i>Verbena lasiostachys</i>	Western vervain	PH	FAC-		Verbenaceae	X	X		
<i>Verbena litoralis</i>	Vervain	BH or PH	.		Verbenaceae	X			
<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	Purslane speedwell	AH	OBL		Scrophulariaceae	X		X	
<i>Vicia benghalensis</i> *	Mediterranean vetch	AH	.		Fabaceae	X		X	
<i>Vicia sativa</i> ssp. <i>sativa</i> * [ <i>V. angustifolia</i> vars.]	Spring vetch, (sweet vetch)				Fabaceae	X			
<i>Vitis californica</i>	California wild grape	PV	FACW		Vitaceae	X	X	X	X
<i>Vitis vinifera</i> +	Grape	PV	(FACW)		Vitaceae	X			
<i>Vulpia bromoides</i> * [ <i>Festuca dertonensis</i> ]	Slender fescue	AG	FACU*		Poaceae	X	X	X	
<i>Vulpia myuros</i> var. <i>myuros</i> * [ <i>Festuca m.</i> ]	Rattail fescue	AG	FACW		Poaceae	X			
<i>Wyethia angustifolia</i> [ <i>W. a. var. foliosa</i> ]	Narrowleaf mule-ear's	PH	FACU-		Asteraceae			X	
<i>Xanthium strumarium</i> ssp. <i>canadense</i>	Cocklebur	AH	FAC+		Asteraceae	X	X	X	X

Notes: Scientific nomenclature follows Bailey and Bailey (1976) for ornamentals, Hickman (1993) for natives, Broich (1987) for *Lathyrus*, Gordon-Reedy (1990) for *Leptodactylon*, and Skinner and Pavlik (1994) for special-status species. An \* indicates non-native taxa that have become naturalized or persist without cultivation.

An + indicates ornamental or agricultural plant species that are actively cultivated.

Common names follow Abrams and Ferris (1960), Bailey and Bailey (1976) for ornamentals, and Hickman (1993), Niehaus and Ripper (1976), and DeGarmo (1980) for natives.

Synonyms in parentheses for scientific and common names are preferred.

Growth habit definitions:

- AF = annual fern or fern ally.
- AG = annual grass.
- AH = annual herb.
- AV = annual vine.
- BH = biennial herb.
- PF = perennial fern or fern ally.
- PG = perennial grass.
- PH = perennial herb.
- PV = perennial vine.
- S = shrub.
- T = tree.

Wetland indicator status (Reed 1988):

- OBL = obligate wetland species, occurs almost always in wetlands (>99% probability).
- FACW = facultative wetland species, usually found in wetlands (67-99% probability).
- FAC = facultative species, equally likely to occur in wetlands or nonwetlands (34-67% probability).
- FACU = facultative upland species, usually occur in nonwetlands (67-99% probability).
- + or - symbols are modifiers that indicate greater or lesser affinity for wetland habitats.
- NI = no indicator has been assigned due to a lack of information to determine indicator status.
- \* = a tentative assignment to that indicator status by Reed (1988).
- A period "." indicates that no wetland indicator status has been given in Reed (1988).
- Parentheses around an indicator status indicates the wetland status as suggested by the author based on extensive field observations.

**COSUMNES RIVER PRESERVE - Vascular Plant Species Observed on the Castello, Denier, Shaw, and Whaley Properties, Sacramento County**

Scientific Name	Common Name	Growth Habit	Wetland Indicator Status	Family	Castello Property	Shaw Property	Denier Property	Whaley Property
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**SacValley CNPS Plant List.** *This Cosumnes River Preserve plant list is provided as a courtesy of the California Native Plant Society (CNPS), Sacramento Valley Chapter and was adapted with permission from the original list compiled by consulting botanist Matt Gause, a member of the SacValley CNPS Chapter.*

*The Sacramento Valley Chapter of the California Native Plant Society, has meetings featuring speakers, books and seeds for sale on the second Wednesday of the month, September through June (except December). Meetings take place at 7pm at the Shepards Garden and Arts Center in McKinley Park, 3330 McKinley Boulevard, Sacramento. The CNPS Sacramento Valley Chapter Plant Sale is the fourth Saturday of September at the Shepard Garden and Arts Center. Visit the website at [www.sacvalleycnps.org](http://www.sacvalleycnps.org) for more information and contacts. (soj 4/3004)*