

Lower Putah Creek Terrestrial Wildlife Monitoring Program

2017 Landowner Report

Prepared for grids 4-32, all study sites, and all reaches of lower Putah Creek

Since 1997, UC Davis Museum of Wildlife and Fish Biology (MWFB) has been conducting surveys along lower Putah Creek to monitor species composition, productivity, population dynamics, and habitat use by a variety of terrestrial organisms. These data are used for basic research and to document status and trends of wildlife populations and communities along the creek for conservation, habitat enhancement, and management purposes. These surveys are included under the Putah Creek Accord and funded by the Solano County Water Agency.

We collect data from permanent study sites located along a linear array of one-mile-long grids extending from the Interdam reach to the Yolo Bypass (Fig. 1). For purposes of comparison, we have divided this stretch of lower Putah Creek into three reaches: an Upper Reach upstream of I-505, a Middle Reach from I-505 downstream to Pedrick Road, and a Lower Reach downstream of Pedrick Road. Data were obtained using a variety of survey methods that enable us to compile species lists and track population changes through space and time.

Our data indicate that Putah Creek is an important riparian ecosystem and supports a large assemblage of flora and fauna representative of California's Central Valley and Coast Range foothills. To date, we have recorded 251 species of birds, 40 species of mammals, and 15 species of amphibians and reptiles along the creek as a whole.

Table 1 contains avian data gathered from point count and transect surveys, breeding bird atlas surveys, mist netting, nest box monitoring, and additional incidental sightings. Various rankings (eg. OB = observed (presence only), PO = possible breeder, PR = probable breeder, CO = confirmed breeder) were assigned to species according to their breeding status as inferred from behavioral cues. For example, a male singing in suitable habitat during the breeding season would be deemed a Possible Breeder (PO) while a male with a female seen in suitable habitat would be deemed a Probable Breeder (PR). An adult bird carrying nest material or food for young would be considered a Confirmed Breeder (CO).

Table 2 contains mammal data obtained through various methods such as camera trapping, Sherman live trapping, Sonobat bat surveys, track and scat surveys, and incidental sightings. Table 3 contains data on amphibians and reptiles obtained through amphibian aquatic funnel trapping, reptile pitfall trapping, and incidental sightings.

For your report, we have also included incidental records derived from the Central Valley Bird listserve (code "IN"). These are records posted by other people about birds they have seen on Putah Creek that happen to fall into our grids. They have not been collected by us, posted by us, or sanctioned by us in any way, but we include them to create a fuller picture of the avifauna of the creek. (To avoid confusion, we coded these as simply observed (OB) in the individual landowner reports.) For your reference, we have included a table of participating landowners below so you will know to whom we sent the reports. We also sent complimentary reports to a few landowners that don't host permanent study sites but have shown interest in our program or have provided extra assistance to us (affiliates).

Table of Participating Landowners

Landowner	Landowner Type	Grid	Site Name (Site Code)
Yolo County Resource Mgmt: Sabatini, Liddicoet, Yarris	Participating	4	Interdam (INTDM)
John and Melanie Pickerel	Participating	7 & 8	Diversion Dam (DVDAM)
Dick, Sue, and Richard Harris	Participating	8	Diversion Dam (DVDAM)
Mack Cody	Participating	8	Diversion Dam (DVDAM)
Tony Morales	Affiliate	8	
Gerry and Carol Parker	Participating	8 & 9	Oxbow (OXBOW)
Herb and Christine Wimmer	Participating	8 & 9	Oxbow (OXBOW)
Stan and Kathy Mertz	Participating	9	Oxbow (OXBOW)
Michael Barbour and Valerie Whitworth	Participating	10	Dry Creek Confluence (DRYCK)
Stan Lester	Participating	10	Dry Creek Confluence (DRYCK)
Winters Putah Creek Park: Scianna	Participating	11	Winters Putah Creek Park (WINTR)
Fred Ramos	Affiliate	12 & 13	
Lisa Baker	Participating	12 & 13	Yolo Housing Authority (YOLOH)
Dennis and Jessica Kilkenny	Affiliate	13	
John and Erin Hasbrook	Affiliate	13	
Sean and Craig McNamara	Participating	13 & 14	Center for Land-based Learning (CLBL)
UC Davis Putah Creek Riparian Reserve: Fulks, Marie	Participating	16-18 & 20-22	Russell Ranch (RUSSR), Picnic Grounds (PICNC), Old Davis Rd (OLDDR)
Maureen Olander	Participating	18	Stevenson's Bridge East (STVBR)
Manfred Kusch and Jamie Madison	Participating	18 & 19	Stevenson's Bridge East (STVBR)
Mike and Dianne Madison	Participating	18 & 19	Stevenson's Bridge East (STVBR)
Rick Martinez	Affiliate	23-25	
City of Davis: McNerney, Reynolds, Snyder	Participating	26-28	Mace Boulevard North (MACEB), South Fork Preserve and downstream easement
Los Rios Farms: Schmid, Jahn	Participating	29-31	Los Rios Farms (LOSRF) and Putah Creek Sinks (PUTCS)
Yolo Basin Wildlife Area: Stoddard	Participating	30-32	Putah Creek Sinks/Yolo Bypass

**Lower Putah Creek
Resource Assessment Map
Grid Locations**

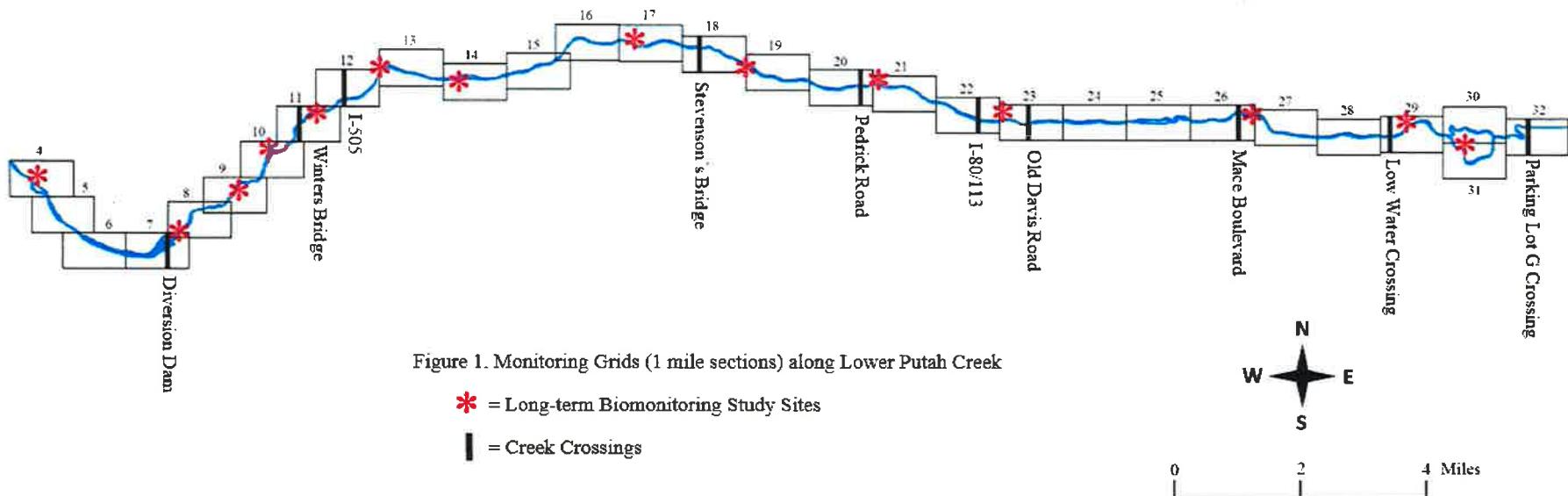


Figure 1. Monitoring Grids (1 mile sections) along Lower Putah Creek

Table 1. Avian species observed along Lower Putah Creek (1997-2016)

Putah Creek Bird Species List

Common Name	Scientific Name	Grid Count	4	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
WATERFOWL — ANATIDAE																																	
Greater White-fronted Goose	<i>Anser albifrons</i>	13					OB	OB		OB	OB			OB	OB		OB	OB			OB	OB			OB	OB	OB						
Emperor Goose	<i>Chen canagica</i>	1																						-				OB					
Snow Goose	<i>Chen caerulescens</i>	6										OB			OB									OB	OB		OB	OB					
Ross's Goose	<i>Chen rossii</i>	2										OB																	OB				
Cackling Goose	<i>Branta hutchinsii</i>	4		OB	OB																								OB	OB			
Canada Goose	<i>Branta canadensis</i>	22	CO	CO	OB	CO	CO	CO	OB	PR	PR		PR	PR	PO	OB	PR	CO	PO	CO	PO		CO	PR		OB	OB						
Tundra Swan	<i>Cygnus columbianus</i>	6										OB			OB			OB	OB									OB	OB				
Mandarin Duck	<i>Aix galericulata</i>	1																	IN														
Wood Duck	<i>Aix sponsa</i>	27	CO	CO	CO	CO	CO	CO	PR	CO	PR	PR	CO	CO	CO	CO																	
Gadwall	<i>Anas strepera</i>	6		CO																					PO		PR	OB	CO				
American Wigeon	<i>Anas americana</i>	5	OB	OB		OB	OB																						OB				
Mallard	<i>Anas platyrhynchos</i>	27	CO	CO	PR	PR	CO	CO	CO	PR	CO	OB	CO	CO	CO	PR	CO	PR	PR	CO	PR	PR	CO	PR	OB	CO	PR	PR	CO				
Blue-winged Teal	<i>Anas discors</i>	2																											OB	OB			
Cinnamon Teal	<i>Anas cyanoptera</i>	5					OB																					OB	PO	OB	PR		
Northern Shoveler	<i>Anas clypeata</i>	2																											OB		OB		
Northern Pintail	<i>Anas acuta</i>	4														OB	OB												OB	OB		OB	
Canvasback	<i>Aythya valisineria</i>	1		OB																													
Ring-necked Duck	<i>Aythya collaris</i>	3	OB	OB																									OB				
Bufflehead	<i>Bucephala albeola</i>	5	OB	OB	OB		OB																						OB				
Common Goldeneye	<i>Bucephala clangula</i>	6	OB	OB	OB	OB			OB																						OB		
Barrow's Goldeneye	<i>Bucephala islandica</i>	1	OB																														
Hooded Merganser	<i>Lophodytes cucullatus</i>	13	OB	OB		OB	OB	OB	OB	PO	OB					IN					CO				OB	OB		OB					
Common Merganser	<i>Mergus merganser</i>	15	CO	OB	OB	OB	PR	OB		OB							OB	OB	OB	OB					OB	OB		OB	OB				
NEW WORLD QUAIL — ODONTOPHORIDAE																																	
California Quail	<i>Callipepla californica</i>	24	CO	PR	PR	PR	PO	PO	PR	PO	PO	OB	CO	CO	PO																		
TURKEYS AND ALLIES — PHASIANIDAE																																	
Red Junglefowl	<i>Gallus gallus</i>	16	OB				OB	OB	OB	OB	OB	OB						OB	OB														
Ring-necked Pheasant	<i>Phasianus colchicus</i>	20	OB	OB	OB		OB					OB			OB	CO	PO	OB	PO	PO	PO	OB	PO		PO	PR	PO	PR	PR	CO			
Indian Peafowl	<i>Pavo cristatus</i>	15	OB	OB	OB	OB		OB							OB	CO	OB	OB	OB	OB	OB	OB						OB		OB			
Wild Turkey	<i>Meleagris gallopavo</i>	25	CO	OB	CO	PR	CO	OB	OB																								
GREBES — PODICIPEDIDAE																																	
Pied-billed Grebe	<i>Podilymbus podiceps</i>	13	OB	CO		PR	CO	OB	PO		PO			OB							OB			OB	OB		OB		OB				
Eared Grebe	<i>Podiceps nigricollis</i>	1		OB																													
Western Grebe	<i>Aechmophorus occidentalis</i>	1		OB																													
PIGEONS AND DOVES — COLUMBIIDAE																																	
Rock Pigeon	<i>Columba livia</i>	24		OB	OB	OB	OB	OB	CO	OB	OB	OB	OB		OB	PR	OB		OB	OB	OB	OB	OB										

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		4	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32						
Band-tailed Pigeon	<i>Patagioenas fasciata</i>	5			OB	OB										IN		OB								OB								
Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	22	PR	PR	PR	PR	CO	CO	PR	OB	OB		OB	OB	PR	CO	PR	PR	OB	OB			OB	OB		OB	OB	OB						
Mourning Dove	<i>Zenaida macroura</i>	27	CO	CO	CO	PR	CO	CO	CO	PR	PR	PR	CO	CO	CO	CO	PR	CO	CO	CO	CO	CO	PR	CO	CO	CO	PR	CO	CO					
CUCKOOS AND ROADRUNNERS — CUCULIDAE																																		
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	4				OB										IN	IN									OB								
Greater Roadrunner	<i>Geococcyx californianus</i>	1	OB																															
NIGHTJARS — CAPRIMULGIDAE																																		
Lesser Nighthawk	<i>Chordeiles acutipennis</i>	1																												OB				
Common Poorwill	<i>Phalaenoptilus nuttallii</i>	4														IN									OB			OB	OB					
SWIFTS — APODIDAE																																		
Vaux's Swift	<i>Chaetura vauxi</i>	6	OB			OB	OB			OB										OB	OB													
White-throated Swift	<i>Aeronautes saxatalis</i>	18	OB	OB	OB		OB	OB	PR		OB			OB	OB	OB	OB	PO	OB	PR		OB	OB		OB	OB								
HUMMINGBIRDS — TROCHILIDAE																																		
Black-chinned Hummingbird	<i>Archilochus alexandri</i>	24	PO	CO	CO	PO	PR	CO	CO	PR	PR		OB	CO	CO	CO	OB	PO	OB	OB	PR		CO	CO		CO	PR	PR	OB					
Anna's Hummingbird	<i>Calypte anna</i>	25	PO	CO	PR	OB	CO	CO	CO	PO	PR	PR	CO	CO	CO	CO	PO	PO	PR	PR	PR	PR		PR	OB	PR								
Costa's Hummingbird	<i>Calypte costae</i>	1																																
Rufous Hummingbird	<i>Selasphorus rufus</i>	10		OB			OB	OB		OB	OB			OB		OB								OB	OB		OB							
Allen's Hummingbird	<i>Selasphorus sasin</i>	8			OB		OB	OB		OB	OB						IN		PR						OB									
Calliope Hummingbird	<i>Selasphorus calliope</i>	2								OB																								
RAILS AND ALLIES — RALLIDAE																																		
Virginia Rail	<i>Rallus limicola</i>	2																									OB	OB						
Common Gallinule	<i>Gallinula galeata</i>	4		OB			OB												PO										CO					
American Coot	<i>Fulica americana</i>	16	CO			PO	OB		OB							OB	OB	OB	OB	OB	OB					OB	OB		PR	OB	OB	PO		
CRANES — GRUIDAE																																		
Sandhill Crane	<i>Antigone canadensis</i>	4																								OB	OB		OB	OB				
STILTS AND AVOCETS — RECURVIROSTRIDAE																																		
Black-necked Stilt	<i>Himantopus mexicanus</i>	4																	OB	OB	OB							OB						
American Avocet	<i>Recurvirostra americana</i>	1																													OB			
PLOVERS — CHARADRIIDAE																																		
Black-bellied Plover	<i>Pluvialis squatarola</i>	2																										OB	OB					
Pacific Golden-Plover	<i>Pluvialis fulva</i>	1																										OB						
Semipalmated Plover	<i>Charadrius semipalmatus</i>	2																													OB		OB	
Killdeer	<i>Charadrius vociferus</i>	26	OB	OB	OB	PR	PR	CO	OB	OB	CO	OB	OB	CO	PO	OB	CO	PR	CO	PR	PO	PO	CO	OB		PR	OB	PO	OB					
SANDPIPERs AND ALLIES — SCOLOPACIDAE																																		
Whimbrel	<i>Numenius phaeopus</i>	12													OB			OB	OB	OB	OB	OB				OB	OB		OB	OB				
Long-billed Curlew	<i>Numenius americanus</i>	14		OB			OB	OB				OB					OB			OB	OB	OB				OB	OB	OB	OB	OB	OB			
Least Sandpiper	<i>Calidris minutilla</i>	2																OB																
Western Sandpiper	<i>Calidris mauri</i>	1																															OB	
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	1		OB																														
Wilson's Snipe	<i>Gallinago delicata</i>	2																															OB	OB

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		4	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
Spotted Sandpiper	<i>Actitis macularius</i>	8	OB	PO		OB	OB			OB					IN						OB	PO									
Greater Yellowlegs	<i>Tringa melanoleuca</i>	14		OB	OB	OB	OB	OB							OB	OB	OB	OB													
Lesser Yellowlegs	<i>Tringa flavipes</i>	1																										OB			
GULLS AND TERNS — LARIDAE																															
Bonaparte's Gull	<i>Chroicocephalus philadelphia</i>	3				OB																OB	OB								
Ring-billed Gull	<i>Larus delawarensis</i>	10		OB											OB		OB	OB		OB											
Western Gull	<i>Larus occidentalis</i>	1																				OB									
California Gull	<i>Larus californicus</i>	16	OB	OB		OB	OB		OB																						
Herring Gull	<i>Larus argentatus</i>	4				OB															OB	OB							OB		
Thayer's Gull	<i>Larus thayeri</i>	1																			OB										
Glaucous-winged Gull	<i>Larus glaucescens</i>	1																			OB										
Caspian Tern	<i>Hydroprogne caspia</i>	7	OB							OB											OB	OB		OB	OB				OB		
Forster's Tern	<i>Sterna forsteri</i>	4																			OB	OB			OB				OB		
CORMORANTS — PHALACROCORACIDAE																															
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	23	OB																												
PELICANS — PELECANIDAE																															
American White Pelican	<i>Pelecanus erythrorhynchos</i>	8	OB	OB																	OB				OB	OB		OB	OB		
HERONS AND EGRETS — ARDEIDAE																															
American Bittern	<i>Botaurus lentiginosus</i>	6		OB																OB		OB							OB	OB	
Great Blue Heron	<i>Ardea herodias</i>	26	OB	OB	CO	OB	OB	OB	OB	CO	CO	PR	CO	CO	OB																
Great Egret	<i>Ardea alba</i>	26	OB																												
Snowy Egret	<i>Egretta thula</i>	24	OB																												
Cattle Egret	<i>Bubulcus ibis</i>	13				OB														OB											
Green Heron	<i>Butorides virescens</i>	25	PR	PO	OB	PR	OB	CO	PR	PO	OB				OB	OB	OB	OB	PO	PO	PO	PO	OB	OB	OB	OB	OB	PO	PO		
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	25	OB	PO	OB	OB	CO	OB	OB	OB	OB	PO	CO	OB																	
IBISES — THRESKIORNITHIDAE																															
White-faced Ibis	<i>Plegadis chihi</i>	12								OB										OB	OB	OB	OB				OB	OB	OB		
NEW WORLD VULTURES — CATHARTIDAE																															
Turkey Vulture	<i>Cathartes aura</i>	26	OB	PR	OB																										
OSPREYS — PANDIONIDAE																															
Osprey	<i>Pandion haliaetus</i>	17	OB	OB	OB	OB	OB	OB			OB		OB																		
HAWKS AND ALLIES — ACCIPITRIDAE																															
White-tailed Kite	<i>Elanus leucurus</i>	23	OB	OB	OB	OB	OB	PO	OB		OB	PO		PR	PR	OB	OB	PR	CO	PR	PR	OB		PR	PR		CO	PO	OB	CO	
Bald Eagle	<i>Haliaeetus leucocephalus</i>	4	OB	IN																										IN	
Northern Harrier	<i>Circus cyaneus</i>	22	OB	OB		OB	OB		OB	OB	OB				OB	OB	OB	OB	PR	CO	PR	PO	PO	PR	PR	PR	OB	PR	OB	OB	
Sharp-shinned Hawk	<i>Accipiter striatus</i>	20	OB																												
Cooper's Hawk	<i>Accipiter cooperii</i>	21	OB	OB	OB	OB	PO	OB	PR	OB		OB	OB	OB	OB	OB	OB														
Northern Goshawk	<i>Accipiter gentilis</i>	1																													
Red-shouldered Hawk	<i>Buteo lineatus</i>	26	CO	CO	CO	OB	CO	CO	PR	CO	CO	PO	CO	CO	CO	CO	CO	PR	CO	CO	PO	PO	CO		PR	PO	PR	PO	CO		
Swainson's Hawk	<i>Buteo swainsoni</i>	27	CO	CO	CO	OB	CO	CO	PR	CO																					

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Red-tailed Hawk	<i>Buteo jamaicensis</i>	27	PO	CO	PR	PR	CO	CO	CO	PR																							
Rough-legged Hawk	<i>Buteo lagopus</i>	1															OB																
Ferruginous Hawk	<i>Buteo regalis</i>	2																	OB											OB			
Golden Eagle	<i>Aquila chrysaetos</i>	4	OB		IN											IN		OB															
BARN OWLS — TYTONIDAE																																	
Barn Owl	<i>Tyto alba</i>	17		OB	OB		OB	OB			OB		OB	OB	OB	CO	OB	OB		OB			PO	OB	PO	OB		OB					
TYPICAL OWLS — STRIGIDAE																																	
Western Screech-Owl	<i>Megascops kennicottii</i>	7				OB	PO	PO								PO		CO	PO	CO													
Great Horned Owl	<i>Bubo virginianus</i>	24	OB	CO	CO	PR	CO		PR	OB	CO		OB	CO	PO	CO	CO	PO	CO	CO	PO	CO	CO	CO									
Northern Pygmy-Owl	<i>Glaucidium gnoma</i>	4	OB	OB										OB																	OB		
Burrowing Owl	<i>Athene cunicularia</i>	1																												IN			
Long-eared Owl	<i>Asio otus</i>	5		OB	OB		OB												IN											OB			
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	1																	OB														
KINGFISHERS — ALCEDINIDAE																																	
Belted Kingfisher	<i>Megaceryle alcyon</i>	26	CO	PR	CO	PO	CO	CO	CO	PR	PR	PR	PR	PR	PO		OB	PO	PO	PR	OB	PR	PO										
WOODPECKERS — PICIDAE																																	
Lewis's Woodpecker	<i>Melanerpes lewis</i>	13	OB	OB	OB	OB	OB				OB	OB		OB	OB	OB	OB	OB	OB														
Acorn Woodpecker	<i>Melanerpes formicivorus</i>	21	CO	CO	CO	OB	OB	OB	CO	PR	OB	OB		OB	PR	CO	OB	OB	OB	OB	PR			OB	OB	PR	OB	OB	OB				
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	2		OB																										IN			
Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>	18	OB		OB	OB	OB	OB	OB	IN	OB	OB				OB	OB																
Nuttall's Woodpecker	<i>Picoides nuttallii</i>	27	CO	PR	CO	PO																											
Downy Woodpecker	<i>Picoides pubescens</i>	26	CO	PR	CO	CO	CO	CO	CO	CO	PR	PR	PO	PR	CO	PO	CO	CO	PR	CO	CO	CO											
Hairy Woodpecker	<i>Picoides villosus</i>	12	PO	PO	OB		OB	OB			OB		OB	PR			OB	OB								OB	OB						
Northern Flicker	<i>Colaptes auratus</i>	23	CO	PO	CO	CO	CO	CO	CO	CO	PR	PO	PR	OB			PO	PO		PR	PO	PR											
Pileated Woodpecker	<i>Dryocopus pileatus</i>	3	OB	PR	OB																												
FALCONS AND ALLIES — FALCONIDAE																																	
Crested Caracara	<i>Caracara cheriway</i>	1																												IN			
American Kestrel	<i>Falco sparverius</i>	23	PR	OB	OB	PR	PO	OB	PO	OB	OB		OB	CO	CO	PR	CO	CO	CO	CO	PO		PO	PO		PO	PO	PO					
Merlin	<i>Falco columbarius</i>	16	OB	OB	OB		OB	OB		OB	OB			OB		IN	OB	OB		IN			OB	OB		OB	OB		OB	OB			
Peregrine Falcon	<i>Falco peregrinus</i>	5	OB														IN	IN													OB	OB	
Prairie Falcon	<i>Falco mexicanus</i>	4	OB				OB									OB		IN															
TYRANT FLYCATCHERS — TYRANNIDAE																																	
Olive-sided Flycatcher	<i>Contopus cooperi</i>	17		OB	OB	OB	OB	OB		OB	OB					OB																	
Western Wood-Pewee	<i>Contopus sordidulus</i>	25	PO	PR	PO	OB	PO	PR	OB	OB	OB	OB	PO	OB	OB	PO	PR	OB	OB	PR													
Eastern Wood-Pewee	<i>Contopus virens</i>	1					OB																										
Willow Flycatcher	<i>Empidonax traillii</i>	20	OB	OB	OB	OB	PO	OB		OB	OB					OB																	
Least Flycatcher	<i>Empidonax minimus</i>	1															OB																
Hammond's Flycatcher	<i>Empidonax hammondi</i>	8														OB								OB									
Gray Flycatcher	<i>Empidonax wrightii</i>	4																				OB								IN			
Dusky Flycatcher	<i>Empidonax oberholseri</i>	14	OB	OB		OB	OB									OB	OB	OB	OB	OB					OB	OB		OB	OB	OB			
Pacific-slope Flycatcher	<i>Empidonax difficilis</i>	26	PR	PR	PO	PO	CO	PR	PO	PO	PR	PR	PO	PO	PO	OB	PR	OB	OB	PO	OB	OB	CO	PO	OB	OB	PO	OB	CO	PO			

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Black Phoebe	<i>Sayornis nigricans</i>	27	CO	PR	CO	CO	CO	CO	CO																													
Eastern Phoebe	<i>Sayornis phoebe</i>	2						OB																		OB												
Say's Phoebe	<i>Sayornis saya</i>	15	OB	OB	OB	OB						OB		OB	OB	OB				OB	OB			OB	OB		OB		OB		OB							
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>	27	CO	PR																																		
Western Kingbird	<i>Tyrannus verticalis</i>	27	PR	CO	CO	PR	CO	PR	PR	CO	CO	CO	CO	CO																								
SHRIKES — LANIIDAE																																						
Loggerhead Shrike	<i>Lanius ludovicianus</i>	10		OB	OB		OB							OB	PO										OB	OB		OB	PO	OB								
VIREOS — VIREONIDAE																																						
Bell's Vireo	<i>Vireo bellii</i>	5		PO															OB				OB										OB	CO				
Hutton's Vireo	<i>Vireo huttoni</i>	17	OB	PO		PO	PO	OB	PO		OB		OB		OB	OB	OB	OB	OB	PO	OB	OB								OB	OB							
Cassin's Vireo	<i>Vireo cassini</i>	20	OB	OB	OB	PO	OB	OB		OB	OB		OB																									
Plumbeous Vireo	<i>Vireo plumbeus</i>	2																					OB									IN						
Warbling Vireo	<i>Vireo gilvus</i>	23	OB	PR	OB	OB	OB	OB	OB	PO	PR	OB	OB	PO	PO	PO	CO	OB	PO																			
Red-eyed Vireo	<i>Vireo olivaceus</i>	1																OB																				
JAYS AND ALLIES — CORVIDAE																																						
Steller's Jay	<i>Cyanocitta stelleri</i>	8	OB	OB	OB		OB										OB	OB	OB														OB					
California Scrub-Jay	<i>Aphelocoma californica</i>	27	CO	PO																																		
Yellow-billed Magpie	<i>Pica nuttalli</i>	26	OB	PR	PR	OB	PO	CO	PO	CO	CO	PR	PR	CO	PR	OB	CO	PR	CO	PR	PR	PO																
American Crow	<i>Corvus brachyrhynchos</i>	27	CO	CO	PO	OB	CO	CO	CO	CO	CO	PO	PO	PO	PR	CO	OB	CO	PO	PO	PR	CO	PO	PR	PO													
Common Raven	<i>Corvus corax</i>	21	OB	PR	PR	OB	PR	CO		OB	PR		OB																									
LARKS — ALAUDIDAE																																						
Horned Lark	<i>Eremophila alpestris</i>	13		OB		OB	OB			OB																			OB	OB	OB	OB	PR	OB	OB			
SWALLOWS — HIRUNDINIDAE																																						
Purple Martin	<i>Progne subis</i>	2		OB																															IN			
Tree Swallow	<i>Tachycineta bicolor</i>	27	CO																																			
Violet-green Swallow	<i>Tachycineta thalassina</i>	13	OB	OB	OB		PR				OB		OB	OB		OB	OB		OB	OB														OB	OB			
No. Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	26	CO	PR	CO	OB	CO	CO	CO	OB	CO	OB	CO	PO	CO	OB	CO	PR	OB	PR																		
Bank Swallow	<i>Riparia riparia</i>	9	OB	OB			OB	OB									OB		OB															OB				
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	26	OB	CO	OB	PO	PR	CO	CO	CO	PO	PR	OB	OB	CO	OB	CO	OB	CO	CO	CO	CO	CO	CO	PO	CO	PO	OB	OB	CO	OB	CO						
Barn Swallow	<i>Hirundo rustica</i>	27	OB	OB	OB	OB	OB	CO	OB	CO	PO	PO	PO	PO	CO	CO	CO	CO	OB	PR	PO	CO	CO	CO	CO	CO	PR	CO	PO	CO	CO							
CHICKADEES AND TITMICE — PARIDAE																																						
Chestnut-backed Chickadee	<i>Poecile rufescens</i>	15	OB	CO	OB		OB												OB																			
Oak Titmouse	<i>Baeolophus inornatus</i>	23	CO	PO	OB	CO	PR	PR	CO	CO	CO	PO	OB	OB	PR	OB																						
BUSHTITS — AEGITHALIDAE																																						
Bushtit	<i>Psaltriparus minimus</i>	27	CO																																			
NUTHATCHES — SITTIDAE																																						
Red-breasted Nuthatch	<i>Sitta canadensis</i>	15		OB			OB		OB	OB	OB	OB	OB	OB													OB	OB										
White-breasted Nuthatch	<i>Sitta carolinensis</i>	25	CO	PR	CO	PR	PO		CO	CO	PO	PR	CO	PR	CO																							
CREEPERS — CERTHIIDAE																																						
Brown Creeper	<i>Certhia americana</i>	5	CO	CO	CO	CO	CO														OB																	

Putah Creek Bird Species List

Common Name	Scientific Name	Grid	Count	4	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
WRENS — TROGLODYTIIDAE																																	
House Wren	<i>Troglodytes aedon</i>		27	CO																													
Pacific Wren	<i>Troglodytes pacificus</i>		7	OB				OB								OB	IN			OB							OB						
Marsh Wren	<i>Cistothorus palustris</i>		7		OB			OB	OB																		PO	CO	PO	CO			
Bewick's Wren	<i>Thryomanes bewickii</i>		27	CO	CO	CO	CO	CO	CO	PR	CO	CO	CO	CO	CO	CO	PR	PR	CO	CO	CO	CO	CO	PR	PR	CO	CO	PR					
GNATCATCHERS — POLIOPTILIDAE																																	
Blue-gray Gnatcatcher	<i>Polioptila caerulea</i>		20	OB	OB	OB	CO	OB	OB	OB	OB					PO	OB		OB	OB	PO	PO			OB	OB		OB	OB				
DIPPERS — CINCLIDAE																																	
American Dipper	<i>Cinclus mexicanus</i>		1	OB																													
KINGLETS — REGULIDAE																																	
Golden-crowned Kinglet	<i>Regulus satrapa</i>		12		OB		OB	OB				OB		OB	OB			OB	OB						OB	OB		OB	OB	OB			
Ruby-crowned Kinglet	<i>Regulus calendula</i>		24	OB	PO	OB																											
SYLVIID WARBLERS — SYLVIIDAE																																	
Wrentit	<i>Chamaea fasciata</i>		17	PR	PR	CO	PR	PR	OB			CO	PO	OB		OB	OB	PR		PO							PR	CO	CO	PR			
THRUSHES — TURDIDAE																																	
Western Bluebird	<i>Sialia mexicana</i>		25	CO	OB	OB	OB																										
Townsend's Solitaire	<i>Myadestes townsendi</i>		1						OB																								
Swainson's Thrush	<i>Catharus ustulatus</i>		26	OB	PO	PO	OB																										
Hermit Thrush	<i>Catharus guttatus</i>		22	OB																													
American Robin	<i>Turdus migratorius</i>		27	PR	CO	PR	PO	PO	CO	CO	PR	CO	CO	CO	CO																		
Varied Thrush	<i>Ixoreus naevius</i>		16	OB				OB			OB	OB		OB	OB																		
MOCKINGBIRDS AND ALLIES — MIMIDAE																																	
Gray Catbird	<i>Dumetella carolinensis</i>		2									OB								IN													
California Thrasher	<i>Toxostoma redivivum</i>		2	OB			PR																										
Sage Thrasher	<i>Oreoscoptes montanus</i>		2																IN	OB													
Northern Mockingbird	<i>Mimus polyglottos</i>		26	OB	CO	PR	PR	PO	PR	OB	PO	PR	CO	PR	CO	CO	CO	PR	CO	CO	PO		CO	CO	CO	PR	PR	PR	CO	PO			
STARLINGS — STURNIDAE																																	
European Starling	<i>Sturnus vulgaris</i>		27	CO	PO	CO	OB																										
WAXWINGS — BOMBYCILLIDAE																																	
Cedar Waxwing	<i>Bombycilla cedrorum</i>		23	OB																													
SILKY-FLYCATCHERS — PTILIOGONATIDAE																																	
Phainopepla	<i>Phainopepla nitens</i>		15	PR	CO	OB	OB	PR	PR	OB	OB			OB	OB	OB	OB	OB	IN									OB	OB	OB			
OLD WORLD SPARROWS — PASSERIDAE																																	
House Sparrow	<i>Passer domesticus</i>		22	OB	CO	CO	OB	CO	CO	CO	CO		OB	OB	CO	CO	CO	OB	CO	CO	CO	CO		CO	CO		OB	OB	CO				
PIPITS — MOTACILLIDAE																																	
American Pipit	<i>Anthus rubescens</i>		20	OB	OB	OB	OB	OB	OB		OB	OB		OB		OB	OB		OB	OB	OB												
FINCHES AND ALLIES — FRINGILLIDAE																																	
House Finch	<i>Haemorhous mexicanus</i>		27	CO	PR	CO	CO	CO	CO																								
Purple Finch	<i>Haemorhous purpureus</i>		19	OB	OB	PO	PO	OB	OB		OB																						
Red Crossbill	<i>Loxia curvirostra</i>		2																IN	IN													

Putah Creek Bird Species List

Common Name	Scientific Name	Grid Count																																
			4	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32					
Pine Siskin	<i>Spinus pinus</i>	16	OB																															
Lesser Goldfinch	<i>Spinus psaltria</i>	25	CO	PR	PR	PO	CO	PR	PR	CO	PR	PR	PR	PO	PO	CO	CO	CO	PR	OB	CO													
Lawrence's Goldfinch	<i>Spinus lawrencei</i>	10		OB	OB		OB							OB		OB	OB	OB							OB	OB								
American Goldfinch	<i>Spinus tristis</i>	27	CO	PO	PR	OB	CO	PR	PR	PO	CO	CO	PR	CO	CO	CO	PR	PR	PR	PR	CO	PO	PR	PR	PR	CO	CO	CO	CO					
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	6		OB	OB		OB						OB			IN		OB																
WOOD-WARBLERS — PARULIDAE																																		
Ovenbird	<i>Seiurus aurocapilla</i>	1																							OB									
Northern Waterthrush	<i>Parkesia noveboracensis</i>	4	OB														OB	IN	OB															
Black-and-white Warbler	<i>Mniotilla varia</i>	3															OB								OB									
Tennessee Warbler	<i>Oreothlypis peregrina</i>	4								OB							OB	IN	IN															
Orange-crowned Warbler	<i>Oreothlypis celata</i>	26	PO	OB	PO	PO	CO	PO	CO	PO	PO	OB	PO	PR	PR	OB	OB	PO	PO	PR	CO	PO	PO	PR	PO	PO	PO	PO	OB					
Nashville Warbler	<i>Oreothlypis ruficapilla</i>	19	OB	OB	OB		OB																											
MacGillivray's Warbler	<i>Geothlypis tolmiei</i>	21	OB																															
Common Yellowthroat	<i>Geothlypis trichas</i>	26	OB	OB	PR	OB	PR	OB	OB	OB	PR		PO	PO	PO	OB	PO	OB	OB	OB	OB	OB	OB	PR	PR	OB	PO	PR	CO	PR				
American Redstart	<i>Setophaga ruticilla</i>	3																								IN								
Northern Parula	<i>Setophaga americana</i>	2																								OB								
Yellow Warbler	<i>Setophaga petechia</i>	25	OB	PR	OB	OB	PO	PO	OB	PO	OB	PO	PR	OB	PO	PO	PO	PO	OB	OB	PO	PO	PO	OB										
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>	3				OB																			IN	IN								
Blackpoll Warbler	<i>Setophaga striata</i>	4	OB																															
Yellow-rumped Warbler	<i>Setophaga coronata</i>	24	OB																															
Black-throated Gray Warbler	<i>Setophaga nigrescens</i>	21	OB																															
Townsend's Warbler	<i>Setophaga townsendi</i>	23	OB	PO	PO	PO	PO	PO	OB																									
Hermit Warbler	<i>Setophaga occidentalis</i>	16	OB	OB	OB	OB	OB				OB		OB	OB			OB																	
Black-throated Green Warbler	<i>Setophaga virens</i>	1																							OB									
Wilson's Warbler	<i>Cardellina pusilla</i>	26	OB	OB	OB	PO	PO	OB	OB	PO	PO	PO	OB	CO	OB	PO	OB	OB	OB	PO	PO	PO												
Yellow-breasted Chat	<i>Icteria virens</i>	17	OB		IN	PR	PO		PO	OB	OB		OB		OB	OB	OB	OB	PO															
EMBERIZID SPARROWS — EMBERIZIDAE																																		
Green-tailed Towhee	<i>Pipilo chlorurus</i>	3																																
Spotted Towhee	<i>Pipilo maculatus</i>	27	PR	CO	CO	PR	CO	PR	CO	CO	CO	PR	CO	CO																				
Rufous-crowned Sparrow	<i>Aimophila ruficeps</i>	2	PR	PO																														
California Towhee	<i>Melozone crissalis</i>	27	CO	CO	CO	PR	CO	CO	PR	PR	CO	PR	CO	CO	CO	CO	PR	PR	PR															
Chipping Sparrow	<i>Spizella passerina</i>	14	OB	OB	OB	OB	OB	OB			OB			OB		OB																		
Clay-colored Sparrow	<i>Spizella pallida</i>	1																																
Brewer's Sparrow	<i>Spizella breweri</i>	1																																
Vesper Sparrow	<i>Pooecetes gramineus</i>	1																																
Lark Sparrow	<i>Chondestes grammacus</i>	16	OB	PO	OB	OB	CO	OB		OB			OB	OB			OB	OB																
Savannah Sparrow	<i>Passerculus sandwichensis</i>	18	OB	OB	OB		OB			OB	OB		OB	OB		OB																		
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	4																																
Fox Sparrow	<i>Passerella iliaca</i>	22	OB																															
Song Sparrow	<i>Melospiza melodia</i>	27	PR	CO	PR	CO	CO	PR	PR	CO	CO	PR	PO	PO	PO	CO	CO	CO																
Lincoln's Sparrow	<i>Melospiza lincolni</i>	22	OB																															

Putah Creek Bird Species List

Common Name	Scientific Name	Grid Count																													
		4	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32			
Swamp Sparrow	<i>Melospiza georgiana</i>	3																										OB	OB		
White-throated Sparrow	<i>Zonotrichia albicollis</i>	14		OB		OB	OB	OB			OB			OB	OB	OB	IN	OB	OB	OB	OB					OB	OB				
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	24	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	PO	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB			
Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	23	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	PO	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB			
Dark-eyed Junco	<i>Junco hyemalis</i>	22	OB	OB	OB	OB	CO	OB	CO	OB	OB		OB	PR	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB			
TANAGERS AND ALLIES — CARDINALIDAE																															
Summer Tanager	<i>Piranga rubra</i>	2															IN			IN											
Western Tanager	<i>Piranga ludoviciana</i>	23	OB	PO	PO	CO	OB	OB	PR	CO	OB		PR	OB	CO	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB	OB		
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	3				IN									OB		OB														
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	27	CO	CO	CO	CO	CO	CO	CO	PR	CO	CO	PR	CO	CO	CO	OB	CO	PR	PO	PO	PR	PR	PR	PO	PO	PR	PR	PR		
Blue Grosbeak	<i>Passerina caerulea</i>	24	OB	OB	PO	PR	OB		PR	OB	PO		OB	OB	OB		PR	OB	PR	CO	PO	PO	PR	PO	PO	PR	CO	PR	CO	CO	
Lazuli Bunting	<i>Passerina amoena</i>	26	OB	OB	OB	PR	PO	OB	OB	OB	PR	OB	OB	PO	OB	PR	PO	PO	PO	PO	PO	PO	PR	OB	PR	CO	PR	PR			
Indigo Bunting	<i>Passerina cyanea</i>	2	OB														IN														
BLACKBIRDS — ICTERIDAE																															
Bobolink	<i>Dolichonyx oryzivorus</i>	1																		OB											
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	27	PO	CO	OB	PO	CO	PR	CO	PO	PR	CO	PR	PR	PO	PO	PR	PR	CO	CO	CO	CO	CO	PR	PR	PR	PR	PO	CO		
Tricolored Blackbird	<i>Agelaius tricolor</i>	9		OB								OB							OB		OB	OB			OB	OB	OB	OB	OB	OB	
Western Meadowlark	<i>Sturnella neglecta</i>	24	CO	PO	OB	PR	OB	OB	OB	OB	OB	OB	OB	OB	PO	PO	PO	OB	OB	PO	PR			PR	PO	PO	PO	PO	PO		
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	6																		OB							OB	OB	OB	OB	OB
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	24	CO	CO	CO	CO	PR	CO	PR	PR	CO	PR	PR	CO	PO	PO	PO	OB	PO	PO	PR			CO	CO		PO	CO	PR	CO	
Great-tailed Grackle	<i>Quiscalus mexicanus</i>	4				OB	OB											OB												OB	
Brown-headed Cowbird	<i>Molothrus ater</i>	27	OB	PR	CO	CO	PR	CO	PR	PR	CO	CO	CO	CO	CO	CO	PR	PR	CO	PR	CO	CO	CO	PR	CO	CO	PR	PR	PR		
Orchard Oriole	<i>Icterus spurius</i>	2																	IN	IN											
Hooded Oriole	<i>Icterus cucullatus</i>	16		OB	OB	OB	OB	OB	PR	OB	OB					OB	PR	CO	OB	OB	PO			OB	OB						
Bullock's Oriole	<i>Icterus bullockii</i>	27	CO	CO	CO	CO	CO	CO	CO	PO	CO	PR	PR	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	CO	PR	CO	CO		
Baltimore Oriole	<i>Icterus galbula</i>	1																	IN												
TOTAL OB		91	92	75	73	82	67	38	57	73	18	53	72	65	88	84	88	68	68	14	7	84	90	14	100	44	103	17			
TOTAL PO		7	10	7	9	13	3	7	15	12	7	10	15	8	3	4	11	16	14	19	13	10	14	11	8	12	12	14			
TOTAL PR		11	12	8	18	11	7	14	14	10	9	13	12	6	6	17	13	16	18	5	5	13	17	20	20	15	15	11			
TOTAL CO		36	48	41	31	46	47	38	28	39	28	34	45	45	39	34	36	32	29	29	25	36	25	14	33	32	29	26			
TOTAL IN		0	1	2	1	0	0	0	0	0	0	1	3	9	17	11	0	2	0	0	6	0	0	0	0	1	1				
SPECIES TOTAL	251	145	163	133	132	152	124	97	114	134	62	110	145	127	145	156	159	132	131	67	50	149	146	59	161	103	160	69			

Nomenclature follows The American Ornithologists' Union, 2016.

OB=observed; PO=possible breeder; PR=probable breeder; CO=confirmed breeder; IN=incidental record from Central Valley Bird listserve.

Table 2. Mammals observed along Lower Putah Creek (1997-2016)

Common Name	Scientific Name	INTDM	DYDAM	OXBOW	DRYCK	WINTR	YOLOH	CLBL	RUSSR	STVBR	PICNC	OLDRR	MACEB	LOSRF	PUTCS
OPOSSUMS – DIDELPHIDAE															
Virginia Opossum	<i>Didelphis virginiana</i>		X	X					X	X	X	X		X	X
HARES AND RABBITS – LEPORIDAE															
Black-tailed Jackrabbit	<i>Lepus californicus</i>	X	X	X	X		X	X	X	X	X	X	X	X	X
Desert Cottontail	<i>Sylvilagus audubonii</i>	X		X	X		X	X	X	X	X	X	X	X	X
SHEREWS – SORICIDAE															
Ornate Shrew	<i>Sorex ornatus</i>		X			X			X		X				
MOLES – TALPIDAE															
Broad-footed Mole	<i>Scapanus latimanus</i>	X	X	X	X	X	X	X		X	X				X
FREE-TAILED BATS – MOLOSSIDAE															
Brazilian Free-tailed Bat	<i>Tadarida brasiliensis</i>					X		X	X	X	X	X	X		
VESPER BATS – VESPERTILIONIDAE															
Big Brown Bat	<i>Eptesicus fuscus</i>					X		X							
Western Red Bat	<i>Lasiorurus blossevillii</i>					X		X	X		X				
Hoary Bat	<i>Lasiorurus cinereus</i>					X		X	X		X				
Yuma Myotis	<i>Myotis yumanensis</i>	X				X		X	X		X	X			
DOGS AND FOXES – CANIDAE															
Coyote	<i>Canis latrans</i>	X	X	X	X				X	X	X	X	X	X	X
Common Gray Fox	<i>Urocyon cinereoargenteus</i>	X				X				X					
Sacramento Valley Red Fox	<i>Vulpes vulpes patwin</i>	X	X	X	X	X	X		X		X	X			
CATS – FELIDAE															
Domestic Cat (FERAL)	<i>Felis catus</i>		X	X	X	X	X	X	X	X	X	X	X	X	X
Bobcat	<i>Lynx rufus</i>	X		X	X		X			X	X				
Mountain Lion	<i>Puma concolor</i>	X	X	X	X	X	X		X	X	X		X		X
SKUNKS – MEPHITIDAE															
Striped Skunk	<i>Mephitis mephitis</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WEASELS, OTTERS, AND BADGERS – MUSTELIDAE															
Northern River Otter	<i>Lontra Canadensis</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
American Mink	<i>Vison vison</i>	X		X		X			X	X	X	X	X	X	X
American Badger	<i>Taxidea taxus</i>		X							X					
RACCOONS – PROCYONIDAE															
Northern Raccoon	<i>Procyon lotor</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BEARS – URSIDAE															
American Black Bear	<i>Ursus americanus</i>	X				X				X		X			
DEER – CERVIDAE															
Black-tailed Deer	<i>Odocoileus hemionus</i>	X	X	X	X	X	X			X					X
PIGS – SUIDAE															
Wild Boar	<i>Sus scrofa</i>	X													
BEAVERS – CASTORIDAE															
American Beaver	<i>Castor canadensis</i>	X	X	X	X	X	X			X	X	X	X	X	X
NEW WORLD MICE, RATS, AND VOLES – CRICETIDAE															
California Vole	<i>Microtus californicus</i>	X	X		X	X			X	X		X	X	X	X
Dusky-footed Woodrat	<i>Neotoma fuscipes</i>	X													
Common Muskrat	<i>Ondatra zibethicus</i>	X	X			X									X
North American Deermouse	<i>Peromyscus maniculatus</i>	X							X		X	X			
Western Harvest Mouse	<i>Reithrodontomys megalotis</i>	X	X		X	X			X		X	X	X		
NEW WORLD PORCUPINES – ERETHIZONTIDAE															
North American Porcupine	<i>Erethizon dorsatum</i>											X			
POCKET GOPHERS – GEOMYIDAE															
Botta's Pocket Gopher	<i>Thomomys bottae</i>									X	X	X	X	X	X
OLD WORLD MICE AND RATS – MURIDAE															
House Mouse	<i>Mus musculus</i>	X	X		X	X				X		X	X	X	X
Norway Rat	<i>Rattus norvegicus</i>									X		X	X		
Black Rat	<i>Rattus rattus</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SQUIRRELS – SCIURIDAE															
California Ground Squirrel	<i>Otospermophilus beecheyi</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Eastern Gray Squirrel	<i>Sciurus carolinensis</i>									X					X
Western Gray Squirrel	<i>Sciurus griseus</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Eastern Fox Squirrel	<i>Sciurus niger</i>		X		X		X	X	X	X	X	X	X	X	X
SPECIES TOTAL	39	26	22	18	20	25	16	24	31	20	30	22	20	15	13

Nomenclature follows "Revised Checklist of North American Mammals North of Mexico, 2014" Bradley et al 2014.

Table 3. Amphibians and Reptiles observed along Lower Putah Creek (1997-2016)

Common Name	Scientific Name	INTDM	DVDRAM	OXBOW	DRYCK	WINTR	YOLOH	CLBL	RUSSR	STVBR	PICNC	OLDRR	MACEB	LOSRF	PUTCS
LUNGLESS SALAMANDERS – PLETHODONTIDAE															
California Slender Salamander	<i>Batrachoseps attenuatus</i>		X						X		X				
TRUE TOADS – BUFONIDAE															
California Toad	<i>Anaxyrus boreas halophilus</i>				X						X				
TREEFROGS – HYLIDAE															
Sierran Treefrog	<i>Pseudacris sierra</i>	X		X	X	X	X	X	X	X	X	X	X	X	X
TRUE FROGS – RANIDAE															
American Bullfrog	<i>Lithobates catesbeianus</i>	X		X	X	X	X	X	X	X	X	X	X	X	X
BOX AND BASKING TURTLES – EMYDIDAE															
Northern Western Pond Turtle	<i>Actinemys marmorata</i>			X	X		X	X		X					
Red-eared Slider	<i>Trachemys scripta elegans</i>			X	X	X				X		X	X		
ALLIGATOR LIZARDS AND ALLIES – ANGUIDAE															
Northern Alligator Lizard	<i>Elgaria coerulea</i>														X
Southern Alligator Lizard	<i>Elgaria multicarinata</i>	X							X			X			
SPINY LIZARDS AND ALLIES – PHRYNOSOMATIDAE															
Western Fence Lizard	<i>Sceloporus occidentalis</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SKINKS – SCINCIDAE															
Gilbert's Skink	<i>Plestiodon gilberti</i>	X													
COLUBRID SNAKES – COLUBRIDAE															
Western Yellow-bellied Racer	<i>Coluber constrictor mormon</i>														X
California Kingsnake	<i>Lampropeltis californiae</i>	X													X
Gopher Snake	<i>Pituophis catenifer</i>			X				X							X
Aquatic Gartersnake	<i>Thamnophis atratus</i>								X						
VIPERS – VIPERIDAE															
Northern Pacific Rattlesnake	<i>Crotalus oreganus oreganus</i>	X	X		X										
SPECIES TOTAL	15	7	4	4	7	5	3	6	6	4	6	4	6	4	4

Nomenclature follows California Herps 2016.



Pallid Bats. Photo: Andy Engilis Jr.



Yellow Warbler. Photo: Andy Engilis Jr.

