

Appendix A - References

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Mark Dellinger	Administrator	Lake County Special Districts
Rachel Elkins	Pomology Farm Advisor	University of California Cooperative Extension, Lakeport, California
Pamela Francis	Deputy Director	Water Resources Division, Lake County Department of Public Works
Steven Hajik	Agriculture Commissioner	Lake County Agriculture Department
Paul Hoffman	Wildlife Biologist	California Department of Fish and Game
Dr. Alex J. Horne	Professor Emeritus	University of California, Berkeley
Lauren Johnson	Forest Botanist	United States Forest Service, Mendocino National Forest
Terry Knight	Reporter and Columnist	Lake County Record Bee
Ray Ruminski	Director	Lake County Environmental Health Department
Chuck Lamb	Community Liaison	Konocti Regional Trails Group
Eric Seely	Deputy Redevelopment Director	Lake County Redevelopment Agency
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Jay Rowan	Associate Fisheries Biologist	California Department of Fish and Game
Eric Seely	Deputy Redevelopment Director	Lake County Redevelopment Agency
Gary Sharpe	Assistant Field Manager	U.S. Dept. of the Interior, Bureau of Land Management, Ukiah Field Office
Lynette Shimek	K9 Coordinator, formerly Lake County Game Warden	California Department of Fish and Game
Ralph Simkins	Clear Lake Lands Coordinator	Lake County Dept. of Public Works
Bruce Smith	Road Manager	United States Forest Service, Mendocino National Forest
Tom Smythe	Water Resources Engineer	Lake County Dept. of Public Works
Steve Stangland	Lake County Roads Superintendent	Lake County Dept. of Public Works
Richard Sugarek	Remedial Project Manager	US Environmental Protection Agency
Jeffrey Tunnell	Fire Prevention & Mitigation Specialist	U.S. Dept. of the Interior, Bureau of Land Management, Ukiah Field Office

Appendix B - Water Quality Monitoring Programs in the Clear Lake Watershed (From LCWRD 2008)

California Department of Food and Agriculture

The California Department of Food and Agriculture (CDFA) monitors the application of herbicides utilized for the eradication of hydrilla. Prior to each treatment, samples are collected and the temperature, pH, dissolved oxygen, conductivity and secchi depth are determined. Water temperature profiles may also be created to determine if the lake is stratified at the sampling sites. This data is measured the day before treatment, three days after, seven days after and weekly up to 35 days after treatment. In addition, the water is analyzed for content of the herbicide being applied (typically copper or fluridone). Samples are also collected at the "inlet" (Rodman Slough) and outlet of the lake (Cache Creek) and analyzed for the same constituents. This data is maintained by CDFA.

California Department of Water Resources

The California Department of Water Resources (DWR) conducts water quality monitoring at three sites on the lake ten times per year. This sampling started in the early 1970's. DWR conducted other sampling in Clear Lake in the 1960's. Currently DWR performs the following sampling:

Water Sample Collection

Lake water samples are collected with a Van Dom style 2.2 liter sampler and a 1.2 liter Teflon Kemmerer Bottle sampler to fill various High Density Polyethylene (HDPE) plastic bottles and ultra-clean glass bottles. Samples are taken at discreet layers in the water column every three meters (beginning at 0.5 meter and continuing at 3m, 6m, 9m... etc.). The Cache Creek surface water station sample is collected by dipping the collection bottle to 0.15 meters. Turbidity is measured in the field or the DWR Red Bluff lab from these same samples. Greater volumes are collected at 0.5 meters and at the bottom of lake stations for alkalinity, mineral, nutrient, and minor element analyses at either DWR's Bryte laboratory in Sacramento or an outside laboratory.

Mineral and some nutrient samples are filtered in the field with the use of a Geotech Peristaltic Sampling Pump and a 142mm stainless steel filtering head capable of supporting a 0.45 um nitrocellulose membrane filter. Dissolved minor element samples are filtered in a clean room at DWR's Bryte laboratory.

Lab analyses include:

Analyte	Frequency	Analyte	Frequency
Boron	10X / yr	Aluminum	4X / yr
Calcium	10X / yr	Arsenic	4X / yr
Magnesium	10X / yr	Cadmium	4X / yr
Potassium	10X / yr	Chromium	4X / yr
Sodium	10X / yr	Copper	4X / yr
Chloride	10X / yr	Iron	10X / yr
Nitrate	10X / yr	Lead	4X / yr
Sulfate	10X / yr	Manganese	4X / yr
Alkalinity	10X / yr	Nickel	4X / yr
Hardness	10X / yr	Selenium	4X / yr
Electrical conductivity	10X / yr	Silver	4X / yr

Total Dissolved Solids	10X / yr	Zinc	4X / yr
Ammonia Nitrogen, Total	10X / yr	Phytoplankton	10X / yr
Ammonia Nitrogen, Dissolved	10X / yr	Zooplankton	10X / yr
Total Kjeldahl Nitrogen	10X / yr		
Organic Nitrogen	10X / yr		
Ortho-phosphate	10X / yr		
Phosphorus	10X / yr		
Nitrite & Nitrate	10X / yr		

Temperature

All lake station temperatures are measured with a Hydrolab Surveyor 4a with H2O Multiprobe. As the probe descends, it is stopped every meter from surface to bottom, allowing for temperatures to stabilize, and then recorded. Surface water station (Cache Creek) temperatures are measured with an YSI Model 85 handheld oxygen, conductivity, and temperature system. The probe is submerged into the sample bottle, stirred, and temperatures are recorded at the station. A temperature recorder is located at the Cache Creek near Lower Lake station. The recorder (HOBO Water Temp. Pro) records temperature data every 15 minutes and is deployed year-round.

Dissolved Oxygen

Dissolved oxygen (D.O.) measurements are taken with the Hydrolab Surveyor 4a with H2O Multiprobe. Prior to collecting oxygen data, the Hydrolab is calibrated with YSI Model 85 handheld oxygen, conductivity, and temperature system. As the probe descends, it is stopped every meter from surface to bottom, allowing for temperatures to stabilize, and then recorded. D.O. is determined at tributary stations with the use of the YSI Model 85 handheld oxygen, conductivity, and temperature system. The probe is submerged into the sample bottle, stirred, and D.O. are recorded at the station.

pH

All lake station pHs are measured with a Hydrolab Surveyor 4a with H2O Multiprobe. As the probe descends, it is stopped, every meter from surface to bottom, allowing for readings to stabilize, and then recorded. Tributary stations pHs are measured with a sensION1 portable pH meter. The probe is submerged into the sample bottle, stirred, that allowed to stabilize and pH is recorded at the station.

Specific Conductance

The specific conductance (SC) is measured with a Hydrolab Surveyor 4a with H2O Multiprobe. All lake stations are measured with a Hydrolab Surveyor4a with H2O Multiprobe. As the probe descends, it is stopped every meter from surface to bottom, allowing for readings to stabilize, and then recorded. SC is determined at tributary stations with the use of the YSI Model 85 handheld oxygen, conductivity, and temperature system. The probe is submerged into the sample bottle, stirred, allowed to stabilize and SC is recorded at the station.

Turbidity

Samples are taken at discreet layers in the water column every three meters (beginning at 0.5 meter and continuing at 3m, 6m, 9m... etc.) on lake stations in Y2 pint bottles. The Cache Creek sample is collected at a depth of 0.15 m with 1/2 pint bottles. An aliquot of each 1/2 pint is used for turbidity determination with a Hach Model 21 OOP Portable Turbidimeter. Sample water is gently mixed by turning the sample container over a few times, taking care not to create air bubbles, Water is then gently poured (again with no air bubbles)

into a clean sample cell up to the line, the cell is capped and the sample cell is allowed to sit undisturbed for a few moments until any air bubbles that may have occurred have dissipated, The Hach Model 2100P Portable Turbidimeter is turned on and sample cell is placed with downward arrow towards line near front of meter and lid is closed. The PEAD button is pressed and the average turbidity is recorded in NTUS.

Transparency/Secchi

Transparency determination is made using a 20 centimeter Secchi disk with alternating black and white quadrants suspended on a non-stretch fiberglass tape measure. The disk is lowered from the shady side of the boat where the disappearance and reappearance are recorded and the average of the two depths is recorded.

Plankton Sampling

Methods for plankton include using either with a Van Dom style sampler which collects water samples at a specific depth, or plankton net which is lowered into the water column and towed in.

Phytoplankton grab samples are collected at 0.5 meters with subsequent samples collected every three meters (beginning at 3 meters) until reaching the bottom. Water is collected with a Van Dom style 2.2 liter bottle which collects samples at discreet depths in the water column. 50 ml -glass bottles are filled from the Van Dorn bottle, followed by the addition of 0.5-ml Lugol's solution as preservative, marked and stored for future identification.

Net sample (composites) are collected with a Wisconsin conical net and collection bucket being towed from bottom to surface, capturing- plankton from the entire water column at any given site. Zooplankton net and collection screen on bucket utilize a 63 μm mesh. When the sampler reaches the surface the net is gently washed to assure all plankton is deposited in the collection bucket. The contents of the collection bucket are washed into a 2 oz. bottle, preserved with 0.5-imi of Lugol's solution, marked and stored for subsequent identification.

Data is maintained by DWR-Northern District. Some of the data is available on the internet.

Central Valley Regional Water Quality Control Board

Since April 2005, the Central Valley Regional Water Quality Control Board (CVRWQCB) has had chlorophyll-a samples collected on Clear Lake by DWR. Samples are collected throughout the water column at the three sample sites. This data provides some guidance on the TMDL, which sets a target level of no more than 73 $\mu\text{g/l}$ of chlorophyll-a in Clear Lake as a level of compliance. In 2005 and 2007, there were 8 surface chlorophyll-a concentrations in excess of 73 $\mu\text{g/l}$.

Data is maintained by the CVRWQCB, with copies provided to the LCWPD.

Lake County Irrigated Agriculture Watershed Group

The Lake County Irrigated Agriculture Watershed Group (LCIAWG) conducts monitoring within the Clear Lake watershed at stream locations that are representative of agriculture in Lake County. The LCIAWG is a subgroup of the Sacramento Valley Water Quality Coalition (SVWQC). The LCIAWG monitors for toxicity, color, total dissolved solids, total suspended solids, turbidity, numerous metals nutrients, herbicides, basic

water quality parameters, selected pesticides and coliforms. Monitoring is conducted several times per year as required by the Regional Board “Ag Waiver”.

Data is maintained by the LCIAWG and the SVWQC. Data is submitted to the CVRWQCB as required by the Waiver.

Lake County Watershed Protection District

The Lake County Watershed Protection District (LCWPD) has performed the following sampling:

Lake Sediments

Lake sediments have been monitored since 1991 in an attempt to understand and quantify the internal nutrient (phosphorus) cycling within Clear Lake.

From August 1991 through June 1997, Ekman Dredge samples were collected monthly at 9 locations around the lake. The sediment was “fractionated” using extraction methods to determine the biologically available phosphorus (iron and aluminum bound phosphorus) and the total phosphorus. These analyses were performed at the Hopland Research and Extension Center, University of California. Following are the sampling sites:

Sampling Sites		
Site	Site Code	Lake Arm
Horseshoe Bend	HOS	Upper
Kelsey Creek Delta	KCR	Upper
Lower Arm East	LAE	Lower
Lower Arm West	LAW	Lower
The Narrows	NAR	Oaks
Rattlesnake Island	RATT	Oaks
Rodman Slough Delta	ROD	Upper
Soda Bay	SBY	Upper
Upper Arm	UA	Upper

Concurrent water samples were taken at the surface in these locations for ortho-phosphorus and total phosphorus. The initial data collected is discussed in Chapter 6 of the Clean Lakes Report (1994).

From March 1995 to June 1997, sediment cores were taken monthly near the center of the Upper Arm. These cores were also fractionated as described above. Initial cores were 12 centimeters (cm) in length, however, cores of 28 cm were collected starting in September 1995. An important finding from this monitoring is that the phosphorus cycling all occurs within the top 10 cm of the sediment.

Findings from the initial coring and the Ekman dredge samples are discussed in a paper presented by Dr. Peter Richerson, UC-Davis, at the 1997 Clear Lake Science and Management Symposium. The data from the cores matches the phosphorus cycling measured in the lake and was decreasing since the end of the drought (1992).

Since August 1997, sediment cores were collected ten times a year by the California Department of Water Resources (DWR) concurrent with their water quality monitoring program. All cores taken are 10 cm in length and are analyzed at depths of 0-1, 1-2, 2-3, 3-4, 4-6, 6-8 and 8-10 cm depths and fractionated as discussed above. Full analysis of this data has not been completed, however, a cursory data analysis completed in 2002 indicated there were no significant changes from the data reported on by Dr. Richerson in 1997.

Due to the retirement of the Chuck Vaughn, Hopland Research and Extension Center, University of California, and limited funds, this sediment sampling was discontinued, with the last samples collected in January 2008. Sampling was re-started in October 2008 with samples processed at the University of California, Davis.

Tributary Water Quality

Monitoring of the Clear Lake tributaries began in 1992 to estimate the external (watershed) nutrient loading to Clear Lake for the Clean Lakes Report. Samples were collected at various flows in order to develop flow – constituent relationships. Constituents analyzed include total suspended solids, total solids, conductivity, temperature, pH, total phosphorus, and ortho-phosphorus. Some limited total nitrogen and total iron were also obtained. Most analyses were completed by LCWPD staff, however, total phosphorus, and presumably total iron and total nitrogen, were analyzed at the Hopland Research and Extension Center, University of California. Starting in 1992, samples were collected at numerous locations, however, many of the locations did not have flow data and were of limited use. Because of their limited usefulness, the ungaged sites were discontinued and monitoring continued at the three DWR stream gage locations on Kelsey, Scotts and Middle Creeks. This data was reported in the Upper Lake Management Area Watershed Analysis (1998) and the Clear Lake Basin Watershed Analysis (1999). Due to limited staffing, no samples have been collected since February 2000.

In 2005, the LCWPD received a grant for monitoring water quality for compliance with the Mercury TMDL for Clear Lake and the draft Nutrient TMDL for Clear Lake. The monitoring program has three goals, identify mercury hotspots within the Clear Lake watershed and determine the mercury and nutrient loading entering Clear Lake from the tributaries. Due to delays obtaining a signed Quality Assurance Project Plan and LCWPD staffing changes, monitoring did not begin in earnest until October 2006. The mercury hotspot monitoring is discussed under the Mercury TMDL.

Tributary monitoring of inflows was restarted at the three DWR stream gages. Analytes monitored at these sites include: total mercury, methyl mercury, iron, total dissolved solids, total suspended solids, sulphate, chloride, total phosphorus, nitrite, nitrate, ortho-phosphate, and total Kjeldahl nitrogen. Measurements were conducted in the field for electrical conductivity, temperature, pH and dissolved oxygen. Samples were collected in February 2007, December 2007, and January and February 2008. The two dry and short winters limited the ability to obtain many samples. A total of 46 samples were collected and analyzed. For loading determinations, these results were matched with flow data. Loading estimates for ortho-phosphate, phosphorus, suspended solids, iron, sulfate, chloride, total mercury and methyl mercury were developed for each of the stream gage locations. These loading estimates will be extrapolated to estimate the average annual loads to Clear Lake.

A Final Report on this monitoring program will be submitted to the CVRWQCB prior to March 2009. Funding to continue this monitoring program has not been identified.

Pesticide Data

The LCWPD collects data as part of the implementation of the Integrated Aquatic Plant Management Program (IAPMP). Data is collected by the applicators during the herbicide application period (generally June through September) at sites where herbicides are applied. Ten percent of the sites have follow-up monitoring to determine if pesticide remains in the water column. Constituents monitored include temperature, pH, dissolved oxygen, conductivity, secchi depth and herbicides. The data is maintained by the LCWPD.

Lake County Vector Control District:

Additional data is collected by the Lake County Vector Control District (LCVCD). A portion of the LCVCD data was entered into an Access database by interns working for the LCWPD in 2002. Data includes the following:

Water Quality, 4 sites, 1954-2002, monthly	
Air temperature	Water Temperature, top and bottom
pH, top and bottom	Water depth, m
Hardness, top and bottom	Turbidity, top and bottom
Secchi depth	
Vertical tow data, 3 sites, 1988-2002, monthly	
Phytoplankton	Zooplankton
Insect larvae	
Fish data (from beach seines), 11 sites, 1987-2001, several times per year (varies)	
Fish counts by species	
Chironomids, 8 sites, 1954-2002, monthly	
Count of numbers by family	
Chaoborids, 8 sites, 1954-2002, monthly	
Count of numbers by family	
Chaoborids, Chironomids, Hirudae, 13 sites, 1994-2002	
Count of numbers	

This is only a sampling of the data collected by LCVCD. Additional data may exist that may be of value. Data is maintained by the LCVCD.

Big Valley Rancheria

The Big Valley Rancheria monitors for water quality within and adjacent to Rancheria property. Sampling includes:

- Using a Hach Hydroprobe, we take water quality parameter measurements (DO, DO%, pH, Temp, Resistivity, TDS, Secchi Depths, Turbidity, Specific Conductivity) near Big Valley Rancheria and have been since 1999. Currently analyzing it for trends.
- Using a DMA Mercury Analyzer, we periodically analyze fish tissue, sediment and water for mercury concentrations and have been since 2005

Appendix C - Vertebrates Potentially Found in the Clear Lake Watershed

Derived from searching California Wildlife Habitat Relationships System Version 8.1 for the following habitats:

BLUE OAK WOODLAND
VALLEY OAK WOODLAND
COASTAL OAK WOODLAND
CLOSED-CONE PINE-CYPRESS
MONTANE HARDWOOD
MONTANE HARDWOOD-CONIFER
DOUGLAS-FIR
CHAMISE-REDSHANK CHAPARRAL
MIXED CHAPARRAL
ANNUAL GRASSLAND
FRESH EMERGENT WETLAND
PASTURE
URBAN
BARREN
DECIDUOUS ORCHARD
VINEYARD
IRRIGATED HAYFIELD

Vertebrate Animals

AMPHIBIANS

CALIFORNIA GIANT SALAMANDER
ROUGH-SKINNED NEWT
CALIFORNIA NEWT
RED-BELLIED NEWT
ENSATINA
CALIFORNIA SLENDER SALAMANDER
BLACK SALAMANDER
ARBOREAL SALAMANDER
WESTERN TOAD
PACIFIC TREEFROG
RED-LEGGED FROG
FOOTHILL YELLOW-LEGGED FROG
BULLFROG
PACIFIC GIANT SALAMANDER

BIRDS

PIED-BILLED GREBE
EARED GREBE
WESTERN GREBE
AMERICAN WHITE PELICAN
DOUBLE-CRESTED CORMORANT
AMERICAN BITTERN
GREAT BLUE HERON
GREAT EGRET

SNOWY EGRET
GREEN HERON
BLACK-CROWNED NIGHT HERON
TUNDRA SWAN
GREATER WHITE-FRONTED GOOSE
SNOW GOOSE
CANADA GOOSE
WOOD DUCK
GREEN-WINGED TEAL
MALLARD
NORTHERN PINTAIL
CINNAMON TEAL
NORTHERN SHOVELER
GADWALL
EURASIAN WIGEON
AMERICAN WIGEON
CANVASBACK
RING-NECKED DUCK
LESSER SCAUP
BUFFLEHEAD
HOODED MERGANSER
COMMON MERGANSER
RUDDY DUCK
TURKEY VULTURE
OSPREY
WHITE-TAILED KITE
BALD EAGLE
NORTHERN HARRIER
SHARP-SHINNED HAWK
COOPER'S HAWK
NORTHERN GOSHAWK
RED-SHOULDERED HAWK
RED-TAILED HAWK
FERRUGINOUS HAWK
ROUGH-LEGGED HAWK
GOLDEN EAGLE
AMERICAN KESTREL
MERLIN
PEREGRINE FALCON
PRAIRIE FALCON
RING-NECKED PHEASANT
BLUE GROUSE
WILD TURKEY
CALIFORNIA QUAIL
MOUNTAIN QUAIL
VIRGINIA RAIL
SORA
COMMON MOORHEN
AMERICAN COOT
SEMIPALMATED PLOVER

KILLDEER
GREATER YELLOWLEGS
LESSER YELLOWLEGS
SPOTTED SANDPIPER
WESTERN SANDPIPER
LEAST SANDPIPER
DUNLIN
SHORT-BILLED DOWITCHER
LONG-BILLED DOWITCHER
WILSON'S SNIPE
WILSON'S PHALAROPE
BONAPARTE'S GULL
MEW GULL
RING-BILLED GULL
CALIFORNIA GULL
HERRING GULL
THAYER'S GULL
GLAUCOUS-WINGED GULL
CASPIAN TERN
FORSTER'S TERN
ROCK PIGEON
BAND-TAILED PIGEON
MOURNING DOVE
YELLOW-BILLED CUCKOO
GREATER ROADRUNNER
BARN OWL
FLAMMULATED OWL
WESTERN SCREECH OWL
GREAT HORNED OWL
NORTHERN PYGMY OWL
BURROWING OWL
SPOTTED OWL
LONG-EARED OWL
SHORT-EARED OWL
NORTHERN SAW-WHET OWL
COMMON POORWILL
VAUX'S SWIFT
WHITE-THROATED SWIFT
ANNA'S HUMMINGBIRD
RUFIOUS HUMMINGBIRD
ALLEN'S HUMMINGBIRD
BELTED KINGFISHER
LEWIS' S WOODPECKER
ACORN WOODPECKER
RED-BREASTED SAPSUCKER
NUTTALL'S WOODPECKER
DOWNY WOODPECKER
HAIRY WOODPECKER
WHITE-HEADED WOODPECKER
NORTHERN FLICKER

PILEATED WOODPECKER
OLIVE-SIDED FLYCATCHER
WESTERN WOOD-PEWEE
HAMMOND'S FLYCATCHER
DUSKY FLYCATCHER
PACIFIC-SLOPE FLYCATCHER
BLACK PHOEBE
SAY'S PHOEBE
ASH-THROATED FLYCATCHER
WESTERN KINGBIRD
HORNED LARK
PURPLE MARTIN
TREE SWALLOW
VIOLET-GREEN SWALLOW
NORTHERN ROUGH-WINGED SWALLOW
BANK SWALLOW
CLIFF SWALLOW
BARN SWALLOW
STELLER'S JAY
WESTERN SCRUB-JAY
CLARK'S NUTCRACKER
YELLOW-BILLED MAGPIE
AMERICAN CROW
COMMON RAVEN
MOUNTAIN CHICKADEE
CHESTNUT-BACKED CHICKADEE
OAK TITMOUSE
BUSHTIT
RED-BREASTED NUTHATCH
WHITE-BREASTED NUTHATCH
PYGMY NUTHATCH
BROWN CREEPER
ROCK WREN
CANYON WREN
BEWICK'S WREN
HOUSE WREN
WINTER WREN
MARSH WREN
AMERICAN DIPPER
GOLDEN-CROWNED KINGLET
RUBY-CROWNED KINGLET
BLUE-GRAY GNATCATCHER
WESTERN BLUEBIRD
MOUNTAIN BLUEBIRD
TOWNSEND'S SOLITAIRE
SWAINSON'S THRUSH
HERMIT THRUSH
AMERICAN ROBIN
VARIED THRUSH
WRENTIT

NORTHERN MOCKINGBIRD
CALIFORNIA THRASHER
AMERICAN PIPIT
CEDAR WAXWING
PHAINOPEPLA
LOGGERHEAD SHRIKE
EUROPEAN STARLING
CASSIN'S VIREO
HUTTON'S VIREO
WARBLING VIREO
ORANGE-CROWNED WARBLER
NASHVILLE WARBLER
YELLOW WARBLER
YELLOW-RUMPED WARBLER
BLACK-THROATED GRAY WARBLER
TOWNSEND'S WARBLER
HERMIT WARBLER
MACGILLIVRAY'S WARBLER
COMMON YELLOWTHROAT
WILSON'S WARBLER
WESTERN TANAGER
BLACK-HEADED GROSBEAK
LAZULI BUNTING
GREEN-TAILED TOWHEE
SPOTTED TOWHEE
CALIFORNIA TOWHEE
RUFIOUS-CROWNED SPARROW
CHIPPING SPARROW
BLACK-CHINNED SPARROW
LARK SPARROW
SAGE SPARROW
SAVANNAH SPARROW
GRASSHOPPER SPARROW
FOX SPARROW
SONG SPARROW
LINCOLN'S SPARROW
GOLDEN-CROWNED SPARROW
WHITE-CROWNED SPARROW
DARK-EYED JUNCO
RED-WINGED BLACKBIRD
TRICOLORED BLACKBIRD
WESTERN MEADOWLARK
YELLOW-HEADED BLACKBIRD
BREWER'S BLACKBIRD
BROWN-HEADED COWBIRD
BULLOCK'S ORIOLE
PURPLE FINCH
CASSIN'S FINCH
HOUSE FINCH
RED CROSSBILL

PINE SISKIN
LESSER GOLDFINCH
LAWRENCE'S GOLDFINCH
AMERICAN GOLDFINCH
EVENING GROSBEAK
HOUSE SPARROW
CLARK'S GREBE
PLUMBEOUS VIREO
BAIRD'S SANDPIPER
PECTORAL SANDPIPER
RED-NECKED PHALAROPE
RED PHALAROPE
AMERICAN REDSTART
WHITE-THROATED SPARROW
HARRIS'S SPARROW
INDIGO BUNTING

MAMMALS

VIRGINIA OPOSSUM
ORNATE SHREW
TROWBRIDGE'S SHREW
SHREW-MOLE
BROAD-FOOTED MOLE
LITTLE BROWN MYOTIS
YUMA MYOTIS
LONG-EARED MYOTIS
FRINGED MYOTIS
LONG-LEGGED MYOTIS
CALIFORNIA MYOTIS
SILVER-HAIRED BAT
WESTERN PIPISTRELLE
BIG BROWN BAT
WESTERN RED BAT
HOARY BAT
TOWNSEND'S BIG-EARED BAT
PALLID BAT
BRAZILIAN FREE-TAILED BAT
BRUSH RABBIT
DESERT COTTONTAIL
BLACK-TAILED JACKRABBIT
ALLEN'S CHIPMUNK
SONOMA CHIPMUNK
CALIFORNIA GROUND SQUIRREL
GOLDEN-MANTLED GROUND SQUIRREL
WESTERN GRAY SQUIRREL
EASTERN FOX SQUIRREL
DOUGLAS' SQUIRREL
NORTHERN FLYING SQUIRREL
BOTTA'S POCKET GOPHER
SAN JOAQUIN POCKET MOUSE
CALIFORNIA KANGAROO RAT

AMERICAN BEAVER
WESTERN HARVEST MOUSE
DEER MOUSE
BRUSH MOUSE
PINYON MOUSE
DUSKY-FOOTED WOODRAT
WESTERN RED-BACKED VOLE
CALIFORNIA VOLE
COMMON MUSKRAT
NORWAY RAT
HOUSE MOUSE
COMMON PORCUPINE
COYOTE
RED FOX
GRAY FOX
BLACK BEAR
RINGTAIL
RACCOON
AMERICAN MARTEN
FISHER
ERMINE
LONG-TAILED WEASEL
AMERICAN MINK
AMERICAN BADGER
WESTERN SPOTTED SKUNK
STRIPED SKUNK
NORTHERN RIVER OTTER
MOUNTAIN LION
BOBCAT
WILD PIG
ELK
MULE DEER

REPTILES

WESTERN POND TURTLE
WESTERN FENCE LIZARD
SAGEBRUSH LIZARD
WESTERN SKINK
WESTERN WHIPTAIL
SOUTHERN ALLIGATOR LIZARD
NORTHERN ALLIGATOR LIZARD
RUBBER BOA
RING-NECKED SNAKE
SHARP-TAILED SNAKE
RACER
CALIFORNIA WHIPSNAKE(STRIPED RACER)
GOPHER SNAKE
COMMON KINGSNAKE
CALIFORNIA MOUNTAIN KINGSNAKE
LONG-NOSED SNAKE
COMMON GARTER SNAKE

Appendix D - California Natural Diversity Database (CNDDDB)

Rare, threatened, and endangered species in Lake County (CNDDDB 2008).

Scientific Name	Common Name	Federal Status ¹	California Status ²	CDFG ³	CNPS Rank ⁴
Amphibians					
<i>Rana boylei</i>	foothill yellow-legged frog	None	None	SC	
Reptiles					
<i>Actinemys marmorata marmorata</i>	northwestern pond turtle	None	None	SC	
Fish					
<i>Lavinia exilicauda chi</i>	Clear Lake hitch	None	None	SC	
<i>Archoplites interruptus</i>	Sacramento perch	None	None	SC	
Birds					
<i>Phalacrocorax auritus</i>	double-crested cormorant	None	None		
<i>Ardea herodias</i>	great blue heron	None	None		
<i>Pandion haliaetus</i>	osprey	None	None		
<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	Endangered		
<i>Accipiter gentilis</i>	northern goshawk	None	None	SC	
<i>Aquila chrysaetos</i>	golden eagle	None	None		
<i>Falco mexicanus</i>	prairie falcon	None	None		
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	Candidate	Endangered		
<i>Progne subis</i>	purple martin	None	None	SC	
<i>Amphispiza belli belli</i>	Bell's sage sparrow	None	None		
<i>Agelaius tricolor</i>	tricolored blackbird	None	None	SC	
Mammals					
<i>Myotis evotis</i>	long-eared myotis	None	None		
<i>Myotis thysanodes</i>	fringed myotis	None	None		
<i>Lasionycteris noctivagans</i>	silver-haired bat	None	None		
<i>Lasiurus cinereus</i>	hoary bat	None	None		
<i>Lasiurus blossevillii</i>	western red bat	None	None	SC	
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SC	
<i>Antrozous pallidus</i>	pallid bat	None	None	SC	
<i>Perognathus inornatus inornatus</i>	San Joaquin pocket mouse	None	None		

<i>Martes americana humboldtensis</i>	Humboldt marten	None	None	SC
<i>Martes pennanti (pacifica) DPS</i>	Pacific fisher	Candidate	None	SC
<i>Gulo gulo</i>	California wolverine	None	Threatened	
<i>Taxidea taxus</i>	American badger	None	None	SC
Plants				
<i>Didymodon norrisii</i>	Norris' beard moss	None	None	2.2
<i>Mielichhoferia elongata</i>	elongate copper moss	None	None	2.2
<i>Tortella alpicola</i>	alpine crisp moss	None	None	2.3
<i>Trichodon cylindricus</i>	cylindrical trichodon	None	None	2.2
<i>Eryngium constancei</i>	Loch Lomond button-celery	Endangered	Endangered	1B.1
<i>Balsamorhiza macrolepis var. macrolepis</i>	big-scale balsamroot	None	None	1B.2
<i>Calycadenia micrantha</i>	small-flowered calycadenia	None	None	1B.2
<i>Erigeron angustatus</i>	Greene's narrow-leaved daisy	None	None	1B.2
<i>Centromadia parryi ssp. parryi</i>	pappose tarplant	None	None	1B.2
<i>Lasthenia burkei</i>	Burke's goldfields	Endangered	Endangered	1B.1
<i>Layia septentrionalis</i>	Colusa layia	None	None	1B.2
<i>Harmonia hallii</i>	Hall's harmonia	None	None	1B.2
<i>Tracyina rostrata</i>	beaked tracyina	None	None	1B.2
<i>Anisocarpus scabridus</i>	scabrid alpine tarplant	None	None	1B.3
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None	None	1B.2
<i>Cryptantha clevelandii var. dissita</i>	serpentine cryptantha	None	None	1B.1
<i>Plagiobothrys lithocaryus</i>	Mayacamas popcorn-flower	None	None	1A
<i>Streptanthus brachiatus ssp. hoffmanii</i>	Freed's jewel-flower	None	None	1B.2
<i>Streptanthus breweri var. hesperidis</i>	green jewel-flower	None	None	1B.2
<i>Streptanthus morrisonii</i>	see individual subspecies!	None	None	
<i>Legenere limosa</i>	legenere	None	None	1B.1
<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	4.2
<i>Calystegia collina ssp. tridactylosa</i>	coast range bindweed	None	None	1B.2
<i>Calystegia purpurata ssp. saxicola</i>	coastal bluff morning-glory	None	None	1B.2
<i>Sedella leiocarpa</i>	Lake County stonecrop	Endangered	Endangered	1B.1

<i>Cuscuta jepsonii</i>	Jepson's dodder	None	None	3
<i>Arctostaphylos canescens ssp. sonomensis</i>	Sonoma canescent manzanita	None	None	1B.2
<i>Arctostaphylos stanfordiana ssp. raichei</i>	Raiche's manzanita	None	None	1B.1
<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	None	None	1B.3
<i>Astragalus rattanii var. jepsonianus</i>	Jepson's milk-vetch	None	None	1B.2
<i>Lupinus antoninus</i>	Anthony Peak lupine	None	None	1B.3
<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	1B.2
<i>California macrophylla</i>	round-leaved filaree	None	None	1B.1
<i>Juglans hindsii</i>	Northern California black walnut	None	None	1B.1
<i>Monardella villosa ssp. globosa</i>	robust monardella	None	None	1B.2
<i>Hesperolinon adenophyllum</i>	glandular western flax	None	None	1B.2
<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	1B.2
<i>Hesperolinon didymocarpum</i>	Lake County western flax	None	Endangered	1B.2
<i>Hesperolinon drymarioides</i>	drymaria-like western flax	None	None	1B.2
<i>Hesperolinon sp. nov. serpentinum</i> ""	Napa western flax	None	None	1B.1
<i>Sidalcea hickmanii ssp. viridis</i>	Marin checkerbloom	None	None	1B.3
<i>Sidalcea oregana ssp. hydrophila</i>	marsh checkerbloom	None	None	1B.2
<i>Epilobium nivium</i>	Snow Mountain willowherb	None	None	1B.2
<i>Eriogonum nervulosum</i>	Snow Mountain buckwheat	None	None	1B.2
<i>Eriastrum brandegeae</i>	Brandegee's eriastrum	None	None	1B.2
<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	1B.2
<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	1B.1
<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	Endangered	Threatened	1B.1
<i>Navarretia leucocephala ssp. plieantha</i>	many-flowered navarretia	Endangered	Endangered	1B.2
<i>Navarretia myersii ssp. deminuta</i>	small pincushion navarretia	None	None	1B.1
<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	1B.1
<i>Ceanothus diversgens</i>	Calistoga ceanothus	None	None	1B.2

<i>Horkelia bolanderi</i>	Bolander's horkelia	None	None	1B.2
<i>Castilleja rubicundula ssp. rubicundula</i>	pink creamsacs	None	None	1B.2
<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	None	Endangered	1B.2
<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	1B.3
<i>Antirrhinum subcordatum</i>	dimorphic snapdragon	None	None	4.3
<i>Carex comosa</i>	bristly sedge	None	None	2.1
<i>Carex hystericina</i>	porcupine sedge	None	None	2.1
<i>Brodiaea californica var. leptandra</i>	narrow-anthered California brodiaea	None	None	1B.2
<i>Brodiaea coronaria ssp. rosea</i>	Indian Valley brodiaea	None	Endangered	1B.1
<i>Chlorogalum pomeridianum var. minus</i>	dwarf soaproot	None	None	1B.2
<i>Fritillaria pluriflora</i>	adobe-lily	None	None	1B.2
<i>Imperata brevifolia</i>	California satintail	None	None	2.1
<i>Orcuttia tenuis</i>	slender orcutt grass	Threatened	Endangered	1B.1
<i>Potamogeton zosteriformis</i>	eel-grass pondweed	None	None	2.2

¹ Federal species status.

² State of California species status.

³ California Department of Fish and Game. SC indicates species of special concern.

⁴ California Native Plant Society Ranking. 1A presumed extinct in California (CA), 1B rare, threatened, or endangered in CA or elsewhere; 2 rare, threatened, endangered in CA, more common elsewhere; 3 status uncertain, 4 limited Distribution; 0.1 seriously threatened in CA; 0.2 fairly threatened in CA; 0.3 not very threatened in CA.