

Appendix E

CNDDDB and USFWS Species List

Actinemys marmorata marmorata

northwestern pond turtle

Element Code: ARAAD02031

Status _____ NDDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3G4T3 CDFG Status: SC
 State: None State: S3

Habitat Associations

General: ASSOCIATED WITH PERMANENT OR NEARLY PERMANENT WATER IN A WIDE VARIETY OF HABITATS.
 Micro: REQUIRES BASKING SITES. NESTS SITES MAY BE FOUND UP TO 0.5 KM FROM WATER.

Occurrence No. 26 Map Index: 31353 EO Index: 20287 Dates Last Seen _____
 Occ Rank: Excellent Element: 1995-05-15
 Origin: Natural/Native occurrence Site: 1995-05-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1996-01-22

Quad Summary: Warm Springs Dam (3812361/519A)
 County Summary: Sonoma

Lat/Long: 38.69974° / -123.04806° Township: 10N
 UTM: Zone-10 N4283458 E495821 Range: 11W
 Area: Mapping PrecisionNON-SPECIFIC Section: 23 Qtr: XX
 Elevation: 300 ft Symbol Type:POLYGON Meridian: M

Location: WARM SPRINGS ARM OF LAKE SONOMA.
 Location Detail:ADULTS FOUND THROUGHOUT THE WARM SPRINGS ARM.
 Ecological: HABITAT CONSISTS OF A LARGE, MAN-MADE RESERVOIR, WITH AN ADJACENT EVERGREEN FOREST; LOTS OF DOWN TREES LAYING ON THE BANK AND IN THE WATER. NO GRAZING FOR PAST 10-12 YEARS. SOME STEEP SLOPES WITH EROSION. LARGEMOUTH BASS IN THE LAKE.
 General: 11 ADULTS OBSERVED ON 15 MAY 1995. CAS SPECIMEN #23016, DATE UNKNOWN.
 Owner/Manager: DOD-COE

Occurrence No. 100 Map Index: 38444 EO Index: 33452 Dates Last Seen _____
 Occ Rank: Fair Element: 1997-05-07
 Origin: Natural/Native occurrence Site: 1997-05-07
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1998-03-24

Quad Summary: Highland Springs (3812288/534B)
 County Summary: Lake

Lat/Long: 38.93838° / -122.94187° Township: 13N
 UTM: Zone-10 N4309940 E505037 Range: 10W
 Area: 28.5 acres Mapping PrecisionSPECIFIC Section: 35 Qtr: NW
 Elevation: 1,760 ft Symbol Type:POLYGON Meridian: M

Location: HIGHLAND CREEK, ON THE NORTH SIDE OF HIGHLAND SPRINGS ROAD, ABOUT 2 MILES UPSTREAM FROM HIGHLAND RESERVOIR.
 Ecological: HABITAT CONSISTS A PERENNIAL STREAM WITH RIPARIAN DOMINATED BY SALIX LASIANDRA AND ABUNDANT EMERGENT CAREX NUDATA.
 General: A SINGLE ADULT MALE WAS CAPTURED ON 7 MAY 1997 WHILE CROSSING THE DIRT BED OF HIGHLAND SPRINGS ROAD.
 Owner/Manager: BLM-CLEAR LAKE RA

Occurrence No. 108 Map Index: 41688 EO Index: 41688 Dates Last Seen _____
 Occ Rank: Excellent Element: 1999-05-21
 Origin: Natural/Native occurrence Site: 1999-05-21
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1999-09-27

Quad Summary: Cloverdale (3812371/535D)
 County Summary: Mendocino

Lat/Long: 38.87173° / -123.05632° Township: 12N
 UTM: Zone-10 N4302544 E495114 Range: 11W
 Area: 3.0 acres Mapping PrecisionSPECIFIC Section: 23 Qtr: SW
 Elevation: 500 ft Symbol Type:POLYGON Meridian: M

Location: 0.6 MILE WEST OF HIGHWAY 101, 4.5 MILES NNW OF CLOVERDALE.
 Ecological: HABITAT CONSISTS OF A STOCK POND THAT IS USED FOR VINEYARD IRRIGATION; SURROUNDED BY GRASSLANDS AND VINEYARDS.
 General: 1 INDIVIDUAL OBSERVED ON 21 MAY 1999.
 Owner/Manager: PVT

Actinemys marmorata marmorata

northwestern pond turtle

Element Code: ARAAD02031

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G3G4T3 State: S3	CDFG Status: SC

Habitat Associations

General: ASSOCIATED WITH PERMANENT OR NEARLY PERMANENT WATER IN A WIDE VARIETY OF HABITATS.
Micro: REQUIRES BASKING SITES. NESTS SITES MAY BE FOUND UP TO 0.5 KM FROM WATER.

Occurrence No. 142	Map Index: 46847	EO Index: 46847	Dates Last Seen
Occ Rank: Good			Element: 2001-10-09
Origin: Natural/Native occurrence			Site: 2001-10-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-12-17

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.94001° / -122.90721°	Township: 13N
UTM: Zone-10 N4310123 E508041	Range: 09W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,500 ft	Section: 30 Qtr: SW
	Symbol Type: POLYGON
	Meridian: M

Location: SOUTH END OF HIGHLAND SPRINGS RESERVOIR; 0.2 MILES NORTH OF HIGHLAND SPRINGS.
Threat: CHANGE IN WATER REGIME.
General: 9 OCT 2001: 2 INDIVIDUALS OBSERVED BASKING.
Owner/Manager: UNKNOWN

Occurrence No. 168	Map Index: 49542	EO Index: 49542	Dates Last Seen
Occ Rank: Good			Element: 2002-08-13
Origin: Natural/Native occurrence			Site: 2002-08-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-12-03

Quad Summary: Cloverdale (3812371/535D)
County Summary: Sonoma

Lat/Long: 38.82086° / -123.01047°	Township: 11N
UTM: Zone-10 N4296898 E499091	Range: 10W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 650 ft	Section: 07 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: RUSSIAN RIVER, BETWEEN GEYSERS ROAD BRIDGE AND CROCKER BRIDGE (ON HIGHWAY 101), CLOVERDALE
Location Detail: TURTLES WERE FOUND BASKING ON LARGE, WOODY DEBRIS ALONG THE BANKS IN WATER DEPTHS >3 FEET.
Ecological: HABITAT CONSISTS OF RIVERINE IN A WELL-DEVELOPED RIPARIAN ZONE; PREVIOUS BANKSIDE EROSION CONTROL HAS LIMITED RIPARIAN VEGETATION GROWTH IN SOME AREAS.
General: 6 ADULT POND TURTLES OBSERVED DURING A KAYAK SURVEY ON 13 AUG 2002.
Owner/Manager: UNKNOWN

Occurrence No. 171	Map Index: 49546	EO Index: 49546	Dates Last Seen
Occ Rank: Good			Element: 2002-08-14
Origin: Natural/Native occurrence			Site: 2002-08-14
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-12-04

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.94367° / -123.08145°	Township: 13N
UTM: Zone-10 N4310528 E492941	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 650 ft	Section: 33 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: RUSSIAN RIVER, FROM SQUAW ROCK NORTH TO THE HIGHWAY 175 CROSSING, SE OF HOPLAND
Ecological: HABITAT CONSISTS OF RIVERINE IN A WELL-DEVELOPED RIPARIAN ZONE; PREVIOUS BANKSIDE EROSION CONTROL HAS LIMITED RIPARIAN VEGETATION GROWTH IN SOME AREAS. SURROUNDED BY AGGREGATE MINING, OPEN SPACE, AND VINEYARDS.
General: 14 AUG 2002: 4 ADULT WESTERN POND TURTLES OBSERVED (1 CAPTURED/RELEASED; CARAPACE = 150MM) BETWEEN THE HIGHWAY 101 OVERPASS AND SQUAW ROCK; 4 ADULT TURTLES OBSERVED BETWEEN HIGHWAY 101 AND HIGHWAY 175.
Owner/Manager: UNKNOWN

Actinemys marmorata marmorata

northwestern pond turtle

Element Code: ARAAD02031

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G3G4T3 CDFG Status: SC
 State: None State: S3

Habitat Associations

General: ASSOCIATED WITH PERMANENT OR NEARLY PERMANENT WATER IN A WIDE VARIETY OF HABITATS.
 Micro: REQUIRES BASKING SITES. NESTS SITES MAY BE FOUND UP TO 0.5 KM FROM WATER.

Occurrence No. 173 Map Index: 49556 EO Index: 49556 Dates Last Seen: _____
 Occ Rank: Good Element: 2002-08-20
 Origin: Natural/Native occurrence Site: 2002-08-20
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-12-04

Quad Summary: Geyserville (3812268/518B), Asti (3812278/534C)
 County Summary: Sonoma

Lat/Long: 38.73620° / -122.93627° Township: 10N
 UTM: Zone-10 N4287505 E505538 Range: 10W
 Area: Mapping PrecisionNON-SPECIFIC Section: 11 Qtr: XX
 Elevation: 600 ft Symbol Type:POLYGON Meridian: M

Location: RUSSIAN RIVER, BETWEEN WASHINGTON SCHOOL BRIDGE AND HIGHWAY 128 BRIDGE, IN ALEXANDER VALLEY
 Ecological: HABITAT CONSISTS OF RIVERINE IN A WELL-DEVELOPED RIPARIAN ZONE; PREVIOUS BANKSIDE EROSION CONTROL HAS LIMITED RIPARIAN VEGETATION GROWTH IN SOME AREAS. SURROUNDED BY AGGREGATE MINING, OPEN SPACE, AND VINEYARDS.

General: 24 ADULT WESTERN POND TURTLES OBSERVED ON 20 AUG 2002 DURING A KAYAK SURVEY OF THE RIVER.

Owner/Manager: UNKNOWN

Occurrence No. 176 Map Index: 51831 EO Index: 51831 Dates Last Seen: _____
 Occ Rank: Good Element: 1999-06-XX
 Origin: Natural/Native occurrence Site: 1999-06-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2003-07-22

Quad Summary: Highland Springs (3812288/534B)
 County Summary: Lake

Lat/Long: 38.93695° / -122.88468° Township: 13N
 UTM: Zone-10 N4309786 E509994 Range: 09W
 Radius: 80 meters Mapping PrecisionSPECIFIC Section: 32 Qtr: NE
 Elevation: 1,460 ft Symbol Type:POINT Meridian: M

Location: ADOBE CREEK, SW OF HIGHLAND SPRINGS CUTOFF, 1 MILE EAST OF HIGHLAND SPRINGS RESERVOIR

Location Detail: SITE IS LOCATED ~100' WEST OF POLE #3973+80.

General: 1 INDIVIDUAL OBSERVED DURING MAY-JUN 1999.

Owner/Manager: PVT

Occurrence No. 277 Map Index: 69851 EO Index: 70674 Dates Last Seen: _____
 Occ Rank: Good Element: 2005-05-13
 Origin: Natural/Native occurrence Site: 2005-05-13
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-09-05

Quad Summary: Hopland (3812381/535A)
 County Summary: Mendocino

Lat/Long: 38.98127° / -123.11442° Township: 13N
 UTM: Zone-10 N4314704 E490089 Range: 11W
 Area: 23.0 acres Mapping PrecisionSPECIFIC Section: 18 Qtr: SW
 Elevation: 505 ft Symbol Type:POLYGON Meridian: M

Location: EAST SIDE OF HIGHWAY 101, 0.5 MILE NORTH OF HOPLAND.

Ecological: HABITAT CONSISTS OF AN INTERMITTENT STREAM IMPOUNDED INTO A SERIES OF LARGE PONDS; SUPPORTS RIPARIAN VEGETATION OF WILLOWS, VALLEY OAKS, OREGON ASH, COTTONWOODS, AND HIMALAYAN BLACKBERRY.

Threat: THREATENED BY THE PROPOSED HOPLAND BYPASS HIGHWAY PROJECT AND VINEYARD MAINTENANCE ACTIVITIES.

General: 2 TURTLES OBSERVED DURING MAY AND JUNE 2004, AND ON 13 MAY 2005.

Owner/Manager: PVT

Actinemys marmorata marmorata

northwestern pond turtle

Element Code: ARAAD02031

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G3G4T3 State: S3	CDFG Status: SC

Habitat Associations

General: ASSOCIATED WITH PERMANENT OR NEARLY PERMANENT WATER IN A WIDE VARIETY OF HABITATS.
Micro: REQUIRES BASKING SITES. NESTS SITES MAY BE FOUND UP TO 0.5 KM FROM WATER.

Occurrence No. 278	Map Index: 69853	EO Index: 70676	Dates Last Seen
Occ Rank: Good			Element: 2005-05-13
Origin: Natural/Native occurrence			Site: 2005-05-13
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-09-05

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.99702° / -123.10235°	Township: 13N
UTM: Zone-10 N4316450 E491136	Range: 11W
Area: 14.0 acres	Section: 08
Elevation: 560 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POLYGON	

Location: 0.25 MILE EAST OF RIVER ROAD AND 1 MILE WSW OF THE UC-HOPLAND FIELD STATION, 1.8 MILES NNE OF HOPLAND.
Location Detail: SITE IS LOCATED EAST OF THE FETZER VINEYARD COOPERAGE FACILITY.
Ecological: HABITAT CONSISTS OF A LARGE POND, WITH EMERGENT VEGETATION OF CATTAILS, BULRUSHES, HIMALAYAN BLACKBERRY, AND SEVERAL DEAD TREE SNAGS.
Threat: THREATENED BY THE PROPOSED HOPLAND BYPASS HIGHWAY PROJECT AND VINEYARD MAINTENANCE ACTIVITIES.
General: 3 TURTLES OBSERVED DURING MAY AND JUNE 2004, AND ON 13 MAY 2005.
Owner/Manager: PVT-FETZER VINEYARDS

Occurrence No. 366	Map Index: 70720	EO Index: 71630	Dates Last Seen
Occ Rank: Good			Element: 2006-12-06
Origin: Natural/Native occurrence			Site: 2006-12-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-02-25

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.71312° / -122.98649°	Township: 10N
UTM: Zone-10 N4284943 E501173	Range: 10W
Radius: 80 meters	Section: 17
Elevation: 190 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: DRY CREEK, 1.3 MILES SE (DOWNSTREAM) OF WARM SPRINGS DAM ON LAKE SONOMA.
Ecological: PERENNIAL DRY CREEK WITH DENSE ALDER/WILLOW RIPARIAN HABITAT. FLATWATER AREAS WITH LARGE WOODY DEBRIS ALONG THE BANKS PROVIDE BASKING HABITAT FOR TURTLES. FLOWS AUGMENTED BY DAM RELEASES.
General: 1 ADULT OBSERVED BASKING ON A LOG. THIS TURTLE OBSERVATION IS FROM LATE FALL WHEN MOST TURTLES ARE LIKELY INACTIVE. CREEK SURVEYED BY KAYAK FROM WARM SPRINGS DAM TO LAMBERT BRIDGE.
Owner/Manager: UNKNOWN

Occurrence No. 369	Map Index: 71004	EO Index: 71922	Dates Last Seen
Occ Rank: Good			Element: 2007-11-22
Origin: Natural/Native occurrence			Site: 2007-11-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-03-07

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.62723° / -122.89775°	Township: 09N
UTM: Zone-10 N4275416 E508899	Range: 09W
Radius: 80 meters	Section: 18
Elevation: 100 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: E
Symbol Type: POINT	

Location: DRY CREEK, 1.8 MILES UPSTREAM FROM THE WESTSIDE ROAD CROSSING, WEST OF HEALDSBURG.
Ecological: HABITAT CONSISTS OF A CREEK WITH MATURE WILLOW/ALDER RIPARIAN.
General: 2 POND TURTLES OBSERVED BASKING ON A LOG ON 22 NOV 2007. TURTLES SEEN DURING A CHINOOK SALMON KAYAK SURVEY.
Owner/Manager: UNKNOWN

Agelaius tricolor

tricolored blackbird

Element Code: ABPBXB0020

Status

NDDB Element Ranks

Other Lists

Federal: None
 State: None

Global: G2G3
 State: S2

CDFG Status: SC

Habitat Associations

General: HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY & VICINITY. LARGELY ENDEMIC TO CALIFORNIA.

Micro: REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, & FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.

Occurrence No. 173

Map Index: 17172

EO Index: 12054

Dates Last Seen

Occ Rank: Excellent

Element: 1990-05-20

Origin: Natural/Native occurrence

Site: 1990-05-20

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 1990-11-26

Quad Summary: Hopland (3812381/535A)

County Summary: Mendocino

Lat/Long: 38.92436° / -123.07772°

Township: 12N

UTM: Zone-10 N4308385 E493262

Range: 11W

Radius: 80 meters

Mapping Precision: SPECIFIC

Section: 03

Qtr: NW

Elevation: 600 ft

Symbol Type: POINT

Meridian: M

Location: SE ARM OF BRADFORD POND, APPROXIMATELY 3 MI SE OF HOPLAND.

Location Detail: 50+ ADULTS NESTING IN CATTAILS IN THE SE ARM OF A 50-ACRE RESERVOIR; THIS PORTION OF RESERVOIR IS FENCED TO EXCLUDE

Ecological: ALTHOUGH A WORKING CATTLE RANCH, THERE ARE NO KNOWN THREATS; AREA IS FENCED TO EXCLUDE CATTLE FROM RANCH HOUSE AREA.

General: BRADFORD POND IS A NEW RESERVOIR, APPROXIMATELY 6 YEARS OLD.

Owner/Manager: PVT

Allium peninsulare var. franciscanum

Franciscan onion

Element Code: PMLIL021R1

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G5T2 State: S2.2	CNPS List: 1B.2

Habitat Associations

General: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: CLAY SOILS; OFTEN ON SERPENTINE. DRY HILLSIDES. 100-300M.

Occurrence No. 13	Map Index: 63842	EO Index: 63937	Dates Last Seen
Occ Rank: Unknown			Element: 1999-06-01
Origin: Natural/Native occurrence			Site: 1999-06-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-02-01

Quad Summary: Cloverdale (3812371/535D)
County Summary: Mendocino

Lat/Long: 38.86960° / -123.06581°	Township: 12N
UTM: Zone-10 N4302308 E494290	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,050 ft	Section: 22 Qtr: SE
	Meridian: M
	Symbol Type: POLYGON

Location: NORTH OF CONFLUENCE OF EDWARDS CREEK AND RUSSIAN RIVER; WEST OF HWY 101 AT GEYERS RD EXIT; 5.5 AIR MI NNW OF CLOVERDALE.

Location Detail: ON JEEP ROAD ASCENDING RIDGE, IN THE SE 1/4 OF SE 1/4 OF SECTION 22.

Ecological: SERPENTINE BARRENS AND CHAPARRAL WITH SPARSE QUERCUS DURATA THICKETS, PERENNIAL GRASSLAND WITH NASELLA SPP.

General: 1999 TAYLOR COLLECTION IS THE ONLY SOURCE FOR THIS SITE. TAYLOR NOTES "FLOWERS WHITE; ATYPICAL?" ID UNCERTAIN? NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Ammodramus savannarum

grasshopper sparrow

Element Code: ABPBXA0020

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S2	

Habitat Associations

General: DENSE GRASSLANDS ON ROLLING HILLS, LOWLAND PLAINS, IN VALLEYS & ON HILLSIDES ON LOWER MOUNTAIN SLOPES.
Micro: FAVORS NATIVE GRASSLANDS WITH A MIX OF GRASSES, FORBS & SCATTERED SHRUBS. LOOSELY COLONIAL WHEN NESTING.

Occurrence No. 1	Map Index: 47283	EO Index: 47283	Dates Last Seen
Occ Rank: Excellent			Element: 1991-06-XX
Origin: Natural/Native occurrence			Site: 1991-06-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-02-25

Quad Summary: Hopland (3812381/535A)

County Summary: Mendocino

Lat/Long: 38.98529° / -123.08567°	Township: 13N
UTM: Zone-10 N4315147 E492580	Range: 11W
Radius: 1/10 mile	Section: 17
Elevation: 840 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: NORTH EDGE OF SANEL VALLEY, 0.8 MILES EAST OF RIVER ROAD, 1.8 MILES NE OF HOPLAND.

Ecological: HABITAT CONSISTS OF MODERATELY GRAZED (BY SHEEP AND CATTLE) GRASSLAND DOMINATED BY NON-NATIVE ANNUALS.

Threat: THREAT IS THE PROPOSED HOPLAND BYPASS.

General: JUNE 1991 TO PRESENT DATE (DATE UNKNOWN, BUT RECEIVED IN CNDDB 13 FEB 2002): A BREEDING COLONY CONSISTING OF APPROXIMATELY 10 INDIVIDUALS.

Owner/Manager: UC-HOPLAND FIELD STATION

Amphispiza belli belli

Bell's sage sparrow

Element Code: ABPBX97021

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
 Federal: None **Global:** G5T2T4 **CDFG Status:**
 State: None **State:** S2?

Habitat Associations _____

General: NESTS IN CHAPARRAL DOMINATED BY FAIRLY DENSE STANDS OF CHAMISE. FOUND IN COASTAL SAGE SCRUB IN SOUTH OF RANGE.
Micro: NEST LOCATED ON THE GROUND BENEATH A SHRUB OR IN A SHRUB 6-18 INCHES ABOVE GROUND. TERRITORIES ABOUT 50 YDS APART.

Occurrence No. 1 **Map Index:** 44020 **EO Index:** 44020 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2000-06-XX
Origin: Natural/Native occurrence **Site:** 2000-06-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-10-12

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake, Mendocino

Lat/Long: 38.90232° / -122.92051° **Township:** 12N
UTM: Zone-10 N4305940 E506892 **Range:** 10W
Area: 572.0 acres **Mapping Precision:** SPECIFIC **Section:** 12 **Qtr:** XX
Elevation: 2,700 ft **Symbol Type:** POLYGON **Meridian:** M

Location: ROAD TO MONUMENT PEAK, ADOBE CREEK ROAD, AND CUTOFF TO HIGHLAND SPRINGS ROAD, COW GLADE, MAYACMAS MOUNTAINS
Location Detail: SURVEYS TAKEN ALONG THE 3 ROADS, UTM COORDINATES GIVE LOCATIONS TO SUB-METER ACCURACY (POST PROCESSED, DATUM USED NOT GIVEN) AS PER GALEA.
Ecological: CHAPARRAL, SOME RECENTLY BURNED (1999). SURROUNDING LAND USE: SOME CATTLE GRAZING.
General: >50 OBSERVED NESTING, RELATIVELY HIGH DENSITY OF THIS SPECIES, 2000.
Owner/Manager: PVT

Occurrence No. 2 **Map Index:** 17131 **EO Index:** 44022 **Dates Last Seen** _____
Occ Rank: Excellent **Element:** 2000-06-XX
Origin: Natural/Native occurrence **Site:** 2000-06-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2000-10-12

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93143° / -122.92345° **Township:** 13N
UTM: Zone-10 N4309170 E506635 **Range:** 10W
Area: **Mapping Precision:** NON-SPECIFIC **Section:** 36 **Qtr:** S
Elevation: 1,525 ft **Symbol Type:** POLYGON **Meridian:** M

Location: HIGHLAND SPRINGS ROAD, 0.8 MILES SOUTHWEST OF HIGHLAND SPRINGS.
Location Detail: NO COORDINATE DATA GIVEN WITH ROUGH DRAWING ON MAP.
General: UNKNOWN NUMBER OF BIRDS OBSERVED.
Owner/Manager: UNKNOWN

Amsinckia lunaris

bent-flowered fiddleneck

Element Code: PDBOR01070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: 50-500M.

Occurrence No. 22	Map Index: 17131	EO Index: 49071	Dates Last Seen
Occ Rank: Unknown			Element: 1952-05-03
Origin: Natural/Native occurrence			Site: 1952-05-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-10-17

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93143° / -122.92345°	Township: 13N
UTM: Zone-10 N4309170 E506635	Range: 10W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,525 ft	Section: 36
	Meridian: M
	Symbol Type: POLYGON
	Qtr: S

Location: 1.2 MILES SOUTHWEST OF HIGHLAND SPRINGS.
Ecological: IN SHALLOW ROCKY SOIL ON 3 YEAR BURN, SOUTH FACING SLOPE.
General: NEEDS FIELDWORK.
Owner/Manager: UNKNOWN

Antirrhinum subcordatum

dimorphic snapdragon

Element Code: PDSCR2S070

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 4.3
State: None	State: S3.3	

Habitat Associations

General: CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST.

Micro: GENERALLY ON SERPENTINE OR SHALE IN FOOTHILL WOODLAND OR CHAPARRAL ON S- AND W-FACING SLOPES. 185-800M.

Occurrence No. 25	Map Index: 17131	EO Index: 17883	Dates Last Seen
Occ Rank: Unknown			Element: 1951-05-13
Origin: Natural/Native occurrence			Site: 1978-07-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-10-16

Quad Summary: Highland Springs (3812288/534B)

County Summary: Lake

Lat/Long: 38.93143° / -122.92345°	Township: 13N
UTM: Zone-10 N4309170 E506635	Range: 10W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,525 ft	Section: 36
	Symbol Type: POLYGON
	Meridian: M
	Qtr: S

Location: 1.2 MILES SOUTHWEST OF HIGHLAND SPRINGS.

Ecological: IN 2 YEAR OLD CHAPARRAL BURN IN SHALLOW ROCKY SOIL. ASSOCIATED WITH QUERCUS WISLIZENII, Q. DUMOSA, ADENOSTOMA, CEANOTHUS, ARCTOSTAPHYLOS. SOUTH-FACING SLOPE.

General: SEEN IN 1951. VISITED IN 1977 AND 1978 AND NO PLANTS SEEN.

Owner/Manager: UNKNOWN

Antrozous pallidus

pallid bat

Element Code: AMACC10010

Status: _____ NDDB Element Ranks: _____ Other Lists: _____
 Federal: None Global: G5 CDFG Status: SC
 State: None State: S3

Habitat Associations

General: DESERTS, GRASSLANDS, SHRUBLANDS, WOODLANDS & FORESTS. MOST COMMON IN OPEN, DRY HABITATS WITH ROCKY AREAS FOR ROOSTING.
 Micro: ROOSTS MUST PROTECT BATS FROM HIGH TEMPERATURES. VERY SENSITIVE TO DISTURBANCE OF ROOSTING SITES.

Occurrence No. 51 Map Index: 43661 EO Index: 43661 Dates Last Seen: _____
 Occ Rank: Fair Element: 1994-05-20
 Origin: Natural/Native occurrence Site: 1994-05-20
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-08-29

Quad Summary: Geyserville (3812268/518B)
 County Summary: Sonoma

Lat/Long: 38.65267° / -122.93261° Township: 09N
 UTM: Zone-10 N4278236 E505863 Range: 10W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 02 Qtr: XX
 Elevation: 150 ft Symbol Type: POINT Meridian: M

Location: VINEYARD, NE CORNER OF WEST DRY CREEK ROAD AND LAMBERT BRIDGE ROAD, ~3 MILES WNW OF HEALDSBURG.
 Location Detail: ON REAR OF BUILDING AT WINERY. MAPPED TO LAT-LONG COORDINATES GIVEN.
 Ecological: VINEYARD ADJACENT TO RIPARIAN TO AND MIXED HARDWOOD.
 Threat: PROPERTY CHANGED OWNERS, STATUS UNKNOWN
 General: NIGHT ROOST ONLY, NUMBER NOT KNOWN, 1994.
 Owner/Manager: PVT

Occurrence No. 52 Map Index: 43666 EO Index: 43666 Dates Last Seen: _____
 Occ Rank: None Element: 1996-04-02
 Origin: Natural/Native occurrence Site: 1996-04-02
 Presence: Extirpated
 Trend: Unknown Record Last Updated: 2000-08-29

Quad Summary: Geyserville (3812268/518B)
 County Summary: Sonoma

Lat/Long: 38.65238° / -122.93401° Township: 09N
 UTM: Zone-10 N4278204 E505741 Range: 10W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 02 Qtr: XX
 Elevation: 153 ft Symbol Type: POINT Meridian: M

Location: VINEYARD BUILDING, 0.1 MILE NW OF JUNCTION WEST DRY CREEK ROAD AND LAMBERT BRIDGE ROAD, ~3 MILES WNW OF HEALDSBURG.
 Location Detail: MAPPED TO LAT-LONG COORDINATES GIVEN.
 Ecological: VINEYARD BORDERED BY RIPARIAN HABITAT ALONG DRY CREEK.
 Threat: BUILDING MODIFICATIONS EVICTED NIGHT ROOSTING BATS.
 General: 50 TO 60 BATS OBSERVED, 1996.
 Owner/Manager: PVT

Occurrence No. 53 Map Index: 43667 EO Index: 43667 Dates Last Seen: _____
 Occ Rank: None Element: 1996-04-02
 Origin: Natural/Native occurrence Site: 1996-04-02
 Presence: Extirpated
 Trend: Unknown Record Last Updated: 2000-08-29

Quad Summary: Geyserville (3812268/518B)
 County Summary: Sonoma

Lat/Long: 38.65400° / -122.92462° Township: 09N
 UTM: Zone-10 N4278384 E506558 Range: 10W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 01 Qtr: XX
 Elevation: 160 ft Symbol Type: POINT Meridian: M

Location: WINERY, N SIDE OF LAMBERT BRIDGE RD AND 0.15 MILE WSW OF JCT WITH EAST DRY CREEK RD, ~2.5 MILES WNW OF HEALDSBURG.
 Location Detail: MAPPED TO LAT-LONG COORDINATES GIVEN.
 Ecological: VINEYARD, NON-NATIVE SHRUBS, SOME ADJACENT RIPARIAN VEGETATION.
 Threat: BATS EXCLUDED FROM DAY ROOST INSIDE STRUCTURE.
 General: TOTAL NUMBERS OF INDIVIDUALS UNKNOWN.
 Owner/Manager: PVT

Antrozous pallidus

pallid bat

Element Code: AMACC10010

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G5 State: S3	CDFG Status: SC

Habitat Associations

General: DESERTS, GRASSLANDS, SHRUBLANDS, WOODLANDS & FORESTS. MOST COMMON IN OPEN, DRY HABITATS WITH ROCKY AREAS FOR ROOSTING.
Micro: ROOSTS MUST PROTECT BATS FROM HIGH TEMPERATURES. VERY SENSITIVE TO DISTURBANCE OF ROOSTING SITES.

Occurrence No. 61	Map Index: 43689	EO Index: 43689	Dates Last Seen
Occ Rank: Excellent			Element: 1999-07-08
Origin: Natural/Native occurrence			Site: 1999-07-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-31

Quad Summary: Tombs Creek (3812362/519B)
County Summary: Sonoma

Lat/Long: 38.66220° / -123.23451°	Township: 09N
UTM: Zone-10 N4279318 E479596	Range: 12W
Radius: 80 meters	Section: 06
Elevation: 620 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: BRIDGE ON STEWART'S POINT SKAGGS SPRING ROAD AT HOUSE CREEK, 0.3 MILE NORTH OF DOE RIDGE.
Location Detail: MAPPED TO SITE DESCRIPTION GIVEN, COORDINATES ARE 0.05 MILE WEST (LAT:38 39' 44"; LONG:123 14' 03").
Ecological: RIPARIAN AT BRIDGE, CHAPARRAL AND NON-NATIVE GRASSLAND, RURAL.
Threat: BRIDGE SEISMIC RETROFIT SCHEDULED FOR DAY WORK ONLY.
General: PALLID BAT NIGHT ROOST, SPEICES IDENTIFIED BY SIGN ONLY (FECAL PELLETS AND PREY REMAINS), ALSO, OTHER UNIDENTIFIED BAT SPECIES USING THE BRDGE, WORK WILL TEMPORARILY IMPACT MATERNITY DAY ROOST OF MYOTIS YUMANESIS.
Owner/Manager: SON COUNTY

Occurrence No. 70	Map Index: 47144	EO Index: 47144	Dates Last Seen
Occ Rank: None			Element: 2001-04-09
Origin: Natural/Native occurrence			Site: 2001-04-09
Presence: Possibly Extirpated			
Trend: Unknown			Record Last Updated: 2002-01-30

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.65419° / -122.92829°	Township: 09N
UTM: Zone-10 N4278405 E506239	Range: 10W
Radius: 80 meters	Section: 02
Elevation: 144 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WEST SIDE OF DRY CREEK, AT LAMBERT BRIDGE ROAD, NW OF HEALDSBURG
Ecological: HABITAT SURROUNDING RESIDENTIAL ROOST SITE CONSISTS OF VINEYARD AND RIPARIAN.
Threat: THREATENED BY LOSS OF ROOSTING HABITAT.
General: THIS DAY/NIGHT ROOST WAS EXCLUDED FROM A RESIDENTIAL STRUCTURE; OBSERVED ON 4 SEP 2001.
Owner/Manager: PVT

Occurrence No. 208	Map Index: 66543	EO Index: 66671	Dates Last Seen
Occ Rank: Unknown			Element: 1927-06-07
Origin: Natural/Native occurrence			Site: 1927-06-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-10-03

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.92659° / -123.05461°	Township: 12N
UTM: Zone-10 N4308631 E495266	Range: 11W
Radius: 1/5 mile	Section: 02
Elevation: 500 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: PIETA.
Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES GIVEN IN MANIS, WITH UNCERTAINTY OF 164.592M.
General: 1 MALE SPECIMEN COLLECTED BY LEO K. WILSON ON 7 JUN 1927, MVZ #71628.
Owner/Manager: UNKNOWN

Antrozous pallidus

pallid bat

Element Code: AMACC10010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: DESERTS, GRASSLANDS, SHRUBLANDS, WOODLANDS & FORESTS. MOST COMMON IN OPEN, DRY HABITATS WITH ROCKY AREAS FOR ROOSTING.
Micro: ROOSTS MUST PROTECT BATS FROM HIGH TEMPERATURES. VERY SENSITIVE TO DISTURBANCE OF ROOSTING SITES.

Occurrence No. 300	Map Index: 66630	EO Index: 66773	Dates Last Seen
Occ Rank: Unknown			Element: 1976-07-03
Origin: Natural/Native occurrence			Site: 1976-07-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-10-04

Quad Summary: Asti (3812278/534C)

County Summary: Sonoma

Lat/Long: 38.77716° / -122.97263°	Township: 11N
UTM: Zone-10 N4292049 E502377	Range: 10W
Radius: 1 mile	Section: 28
Elevation: 440 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 0.5 MI N ITALIAN SWISS COLONY WINERY, ASTI.

Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES GIVEN IN MANIS, WITH UNCERTAINTY 4662.2696M.

Ecological: COLLECTED FROM AN OLD BARN.

General: 1 MALE SPECIMEN COLLECTED BY DONALD O. STRANEY ON 3 JUL 1976, MVZ #151051.

Owner/Manager: UNKNOWN

Arborimus pomo

Sonoma tree vole

Element Code: AMAFF23030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status: SC
State: None	State: S3	

Habitat Associations

General: NORTH COAST FOG BELT FROM OREGON BORDER TO SOMONA CO. IN DOUGLAS-FIR, REDWOOD & MONTANE HARDWOOD-CONIFER FORESTS.
Micro: FEEDS ALMOST EXCLUSIVELY ON DOUGLAS-FIR NEEDLES. WILL OCCASIONALLY TAKE NEEDLES OF GRAND FIR, HEMLOCK OR SPRUCE.

Occurrence No. 173	Map Index: 41289	EO Index: 41289	Dates Last Seen
Occ Rank: Unknown			Element: 1994-06-10
Origin: Natural/Native occurrence			Site: 1994-06-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-06-23

Quad Summary: Tombs Creek (3812362/519B), Big Foot Mtn. (3812372/535C)
County Summary: Sonoma

Lat/Long: 38.74917° / -123.16991°	Township: 10N
UTM: Zone-10 N4288956 E485235	Range: 12W
Radius: 1/5 mile	Section: 03
Elevation: 1,600 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: WHEATFIELD FORK GUALALA RIVER (NORTH SLOPE LYLE RIDGE, ~1 MILE NNE OF BUCK MOUNTAIN)
Location Detail: CONFLICT AMONG THE T-R-S, THE UTM AND THE ARCVIEW POINT DATA. MAPPED ACCORDING TO THE T-R-S GIVEN: T10N, R12W, NW 1/4 OF THE NE 1/4 OF SECTION 3.
General: 1 NEST OBSERVED IN 1994 BY WOOSTER.
Owner/Manager: UNKNOWN

Occurrence No. 187	Map Index: 41315	EO Index: 41315	Dates Last Seen
Occ Rank: Unknown			Element: 1993-07-28
Origin: Natural/Native occurrence			Site: 1993-07-28
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-06-29

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.62788° / -122.98590°	Township: 09N
UTM: Zone-10 N4275483 E501227	Range: 10W
Area: 18.2 acres	Section: 17
Elevation: 920 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: PACHECO CREEK (~6 MILES WEST OF HIGHWAY 101 AT THE DRY CREEK ROAD CROSSING, ~4 MILES SSW OF BRADFORD MOUNTAIN)
General: 1 NEST OBSERVED BY SUSAN, & 1 NEST OBSERVED BY WOOSTER & SUSAN, 1993.
Owner/Manager: UNKNOWN

Arctostaphylos bakeri ssp. *sublaevis*

The Cedars manzanita

Element Code: PDERI04222

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2T2	CNPS List: 1B.2
State: Rare	State: S2.2	

Habitat Associations

General: CHAPARRAL, CLOSED-CONE CONIFEROUS FOREST. ENTIRE SPECIES LISTED STATE RARE.

Micro: IN SERPENTINE CHAPARRAL AND SARGENT CYPRESS WOODLAND; TYPICALLY IN CANYONS AND ON SLOPES. 275-600M.

Occurrence No. 1	Map Index: 32617	EO Index: 1084	Dates Last Seen
Occ Rank: Excellent			Element: 1994-06-23
Origin: Natural/Native occurrence			Site: 1994-06-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-01-03

Quad Summary: Fort Ross (3812352/519C), Warm Springs Dam (3812361/519A), Cazadero (3812351/519D), Tombs Creek (3812362/519B)

County Summary: Sonoma

Lat/Long: 38.62440° / -123.12144°	Township: 09N
UTM: Zone-10 N4275104 E489429	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,200 ft	Section: 18
	Symbol Type: POLYGON
	Meridian: M
	Qtr: XX

Location: THE CEDARS, NORTH OF CAZADERO.

Location Detail: HEADWATERS OF BIG AUSTIN CREEK AND EAST AUSTIN CREEK. MAPPED AREA INCLUDED WITHIN T09N R11W SECTIONS 6, 7, 17, 18, 19, 20, 29, 30 AND T09N R12W SECTIONS 1, 11, 12, 13, 14, 24, AND 25.

Ecological: SERPENTINE CHAPARRAL/CUPRESSUS SARGENTII WOODLAND/SERPENTINE BARRENS; TYPICALLY STEEP CANYONLANDS. ASSOCIATED WITH A. VISCIDA PULCHELLA, CUPRESSUS SARGENTII, CEANOTHUS JEPSONII, JEPSONII, QUERCUS DURATA, HOLODISCUS, STREPTANTHUS SPP, ET AL.

Threat: SOME RANCH ROADS CUT THROUGH AREA; MINING OF CHROMITE AND MAGNESITE IN PAST; SOME DEVELOPMENT.

General: 10,000'S OF PLANTS OBSERVED IN 1988. OTHER RARE PLANTS IN THIS AREA INCLUDE CALOCHORTUS RAICHEI, STREPTANTHUS MORRISONII MORRISONII, S. M. HIRTIFLORUS, S. GLANDULOSUS HOFFMANII, ERIOGONUM TERNATUM, AND ASCLEPIAS SOLANOANA.

Owner/Manager: PVT, BLM

Arctostaphylos manzanita ssp. elegans

Konocti manzanita

Element Code: PDERI04271

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5T2 **CNPS List:** 1B.3
State: None **State:** S2.3

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: VOLCANIC SOILS. 395-1400M.

Occurrence No.: 18 **Map Index:** 24303 **EO Index:** 45540 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** XXXX-XX-XX
Presence: Presumed Extant **Record Last Updated:** 2001-08-10
Trend: Unknown

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93683° / -122.90707° **Township:** 13N
UTM: Zone-10 N4309770 E508054 **Range:** 09W
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 31 **Qtr:** XX
Elevation: 1,500 ft **Symbol Type:**POINT **Meridian:** M

Location: HIGHLAND SPRINGS, MAYACAMAS RANGE.

General: NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Arctostaphylos stanfordiana ssp. *decumbens*

Rincon Ridge manzanita

Element Code: PDERI041G4

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3T1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: CHAPARRAL.

Micro: HIGHLY RESTRICTED ENDEMIC TO RED RHYOLITES IN SONOMA COUNTY. 75-310M.

Occurrence No. 6	Map Index: 07856	EO Index: 14032	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-11

Quad Summary: Geyserville (3812268/518B)

County Summary: Sonoma

Lat/Long: 38.68460° / -122.97335°	Township: 10N
UTM: Zone-10 N4281777 E502317	Range: 10W
Area: 8.2 acres	Section: 28
Elevation: 1,220 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: SUMMIT OF BRADFORD MOUNTAIN, WEST OF ALEXANDER VALLEY.

Ecological: IN UNIQUE CHAPARRAL BARREN ON RHYOLITE-LIKE DECOMPOSING ROCK. ASSOCIATED WITH CEANOTHUS CONFUSUS, FRITILLARIA RECURVA, HORKELIA TENUILOBA, PHLOX SPECIOSA NITIDA.

Threat: GENERAL AREA DISTURBED BY ROADS, ORV DAMAGE, RESIDENTIAL DEVELOPMENT, AND VINEYARDS.

Owner/Manager: UNKNOWN

Occurrence No. 7	Map Index: 07845	EO Index: 14031	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-11

Quad Summary: Geyserville (3812268/518B)

County Summary: Sonoma

Lat/Long: 38.67492° / -122.97521°	Township: 10N
UTM: Zone-10 N4280703 E502156	Range: 10W
Area: 36.2 acres	Section: 33
Elevation: 860 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: APPROX 1 AIR MILE SSW OF BRADFORD MOUNTAIN; EAST OF PENA CREEK.

Ecological: IN UNIQUE CHAPARRAL BARREN ON RHYOLITE-LIKE DECOMPOSING ROCK. ASSOCIATED WITH CEANOTHUS CONFUSUS, FRITILLARIA RECURVA, HORKELIA TENUIFOLIA, PHLOX SPECIOSA NITIDA.

Threat: GENERAL AREA HAS LOTS OF ROADS, ORV DAMAGE, RESIDENTIAL DEVELOPMENT AND VINEYARDS.

Owner/Manager: UNKNOWN

Occurrence No. 8	Map Index: 07820	EO Index: 14030	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-11

Quad Summary: Geyserville (3812268/518B)

County Summary: Sonoma

Lat/Long: 38.66791° / -122.98392°	Township: 10N
UTM: Zone-10 N4279925 E501399	Range: 10E
Area: 163.4 acres	Section: 32
Elevation: 880 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: APPROX 1.5 AIR MILES SOUTHWEST OF BRADFORD MOUNTAIN, EAST OF PENA CREEK.

Ecological: ON UNIQUE CHAPARRAL BARREN ON RHYOLITE-LIKE DECOMPOSING ROCK. ASSOCIATED WITH CEANOTHUS CONFUSUS, FRITILLARIA RECURVA, HORKELIA TENUIFOLIA, PHLOX SPECIOSA NITIDA.

Threat: GENERAL AREA HAS LOTS OF ROADS, ORV DAMAGE, RESIDENTIAL DEVELOPMENT AND VINEYARDS.

Owner/Manager: UNKNOWN

Arctostaphylos stanfordiana ssp. *decumbens*

Rincon Ridge manzanita

Element Code: PDERI041G4

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3T1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: CHAPARRAL.
 Micro: HIGHLY RESTRICTED ENDEMIC TO RED RHYOLITES IN SONOMA COUNTY. 75-310M.

Occurrence No. 9	Map Index: 07846	EO Index: 14029	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-11

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.65428° / -122.97461°	Township: 09N
UTM: Zone-10 N4278413 E502209	Range: 10W
Area: 130.4 acres	Section: 04
Elevation: 920 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: S
Symbol Type: POLYGON	

Location: BETWEEN CHAPMAN BRANCH AND GRAPE CREEK, ABOUT 2 AIR MILES SOUTH OF BRADFORD MOUNTAIN.
Ecological: ON UNIQUE CHAPARRAL BARREN ON RHYOLITE-LIKE DECOMPOSING ROCK. ASSOCIATED WITH CEANOTHUS CONFUSUS, FRITILLARIA RECURVA, HORKELIA TENUIFOLIA, PHLOX SPECIOSA NITIDA.
Threat: ROADS, ORV DAMAGE, RESIDENTIAL DEVELOPMENT AND VINEYARDS.
Owner/Manager: UNKNOWN

Occurrence No. 10	Map Index: 07905	EO Index: 14028	Dates Last Seen
Occ Rank: Unknown			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-11

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.64876° / -122.95027°	Township: 09N
UTM: Zone-10 N4277801 E504327	Range: 10W
Area: 74.4 acres	Section: 10
Elevation: 600 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: BETWEEN GRAPE CREEK AND CRANE CREEK, ABOUT 3 AIR MILES SOUTHEAST OF BRADFORD MOUNTAIN.
Ecological: UNIQUE CHAPARRAL BARREN ON RHYOLITE-LIKE DECOMPOSING ROCK. ASSOCIATED WITH CEANOTHUS CONFUSUS, FRITILLARIA RECURVA, HORKELIA TENUIFOLIA, PHLOX SPECIOSA NITIDA.
Threat: AREA DAMAGED BY ROADS, ORVS, RESIDENTIAL DEVELOPMENT AND VINEYARDS.
Owner/Manager: UNKNOWN

Arcrostaphylos stanfordiana ssp. *raichei*

Raiche's manzanita

Element Code: PDERI041G2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3T2?	CNPS List: 1B.1
State: None	State: S2?	

Habitat Associations

General: CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST.
Micro: ON PERIPHERY OF MCNAB CYPRESS GROVE ON SERPENTINE. SLOPES AND RIDGES. 450-1000M.

Occurrence No. 1	Map Index: 28500	EO Index: 29788	Dates Last Seen
Occ Rank: Unknown			Element: 1985-08-11
Origin: Natural/Native occurrence			Site: 1985-08-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-11-15

Quad Summary: Yorkville (3812382/535B)
County Summary: Mendocino

Lat/Long: 38.94895° / -123.17277°	Township: 13N
UTM: Zone-10 N4311126 E485029	Range: 12W
Radius: 1 mile	Section: 34
Elevation: 2,000 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 3-4 MILES UP OLD HOPLAND-YORKVILLE ROAD NEAR SNOW MOUNTAIN.
Location Detail: MAPPED ALONG THE ROAD ABOUT 1.5 AIR MILES ENE OF SNOW MOUNTAIN SUMMIT.
Ecological: OCCURS ON SANDSTONE AND OVERLAPS SLIGHTLY ONTO SERPENTINE. ASSOCIATED WITH CUPRESSUS SARGENTII.
General: VICINTIY REPORTED IN TWO COLLECTIONS: 1985 COLLECTION BY EDWARDS ET AL. (#5212 ROH) AND UNDATED COLLECTION BY WHEELER (#2920 UNKNOWN HERBARIUM).
Owner/Manager: UNKNOWN

Boschniakia hookeri

small groundcone

Element Code: PDORO01010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CNPS List: 2.3
State: None	State: S1S2	

Habitat Associations

General: NORTH COAST CONIFEROUS FOREST.

Micro: OPEN WOODS, SHRUBBY PLACES, GENERALLY ON GAULTHERIA SHALLON. 90-885M.

Occurrence No. 4	Map Index: 35147	EO Index: 72	Dates Last Seen
Occ Rank: Unknown			Element: 1976-XX-XX
Origin: Natural/Native occurrence			Site: 1976-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-04-02

Quad Summary: Hopland (3812381/535A), Purdys Gardens (3912311/550D)

County Summary: Mendocino

Lat/Long: 39.00231° / -123.08436°	Township: 13N
UTM: Zone-10 N4317036 E492695	Range: 11W
Radius: 1 mile	Section: 08
Elevation: 1,000 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: HOPLAND FIELD STATION.

Ecological: PARASITIC ON ADENOSTOMA AND ARCTOSTAPHYLOS.

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS 1976 COLLECTION BY LANE CITED IN "A FLORA OF THE VASCULAR PLANTS OF MENDOCINO COUNTY" BY SMITH AND WHEELER (1991).

Owner/Manager: UCNR

Brodiaea californica var. leptandra

narrow-anthered California brodiaea

Element Code: PMLIL0C022

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G4?T2T3 State: S2S3.2	CNPS List: 1B.2

Habitat Associations
 General: BROADLEAFED UPLAND FOREST, CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST.
 Micro: 110-915M.

Occurrence No. 21	Map Index: 47368	EO Index: 47368	Dates Last Seen
Occ Rank: Unknown			Element: 1993-XX-XX
Origin: Natural/Native occurrence			Site: 1993-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2002-03-25

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.64815° / -122.95051°	Township: 09N
UTM: Zone-10 N4277734 E504306	Range: 10W
Radius: 1 mile	Section: 10
Elevation: 530 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: WEST SIDE OF DRY CREEK VALLEY.
Location Detail: LOCATION INFORMATION IS VAGUE. MAPPED AS BEST GUESS BASED ON OTHER COLLECTIONS FROM DRY CREEK VALLEY BY RAICHE.
General: NEEDS FIELDWORK. COLLECTION FROM "CHAMISE [CHEMISE] RIDGE ROAD, WEST OF HEALDSBURG" (GUGGOLZ SN) ALSO ATTRIBUTED TO THIS LOCATION.
Owner/Manager: UNKNOWN

Calochortus raichei

The Cedars fairy-lantern

Element Code: PMLI0D1L0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.2
State: None	State: S1.2	

Habitat Associations

General: CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.

Micro: ON SERPENTINE. USUALLY ON SHADED SLOPES, BUT ALSO ON BARRENS AND TALUS. 200-395M.

Occurrence No. 8	Map Index: 07656	EO Index: 22092	Dates Last Seen
Occ Rank: Excellent			Element: 1994-06-23
Origin: Natural/Native occurrence			Site: 1994-06-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-11-08

Quad Summary: Cazadero (3812351/519D), Tombs Creek (3812362/519B), Warm Springs Dam (3812361/519A), Fort Ross (3812352/519C)

County Summary: Sonoma

Lat/Long: 38.62654° / -123.12844°	Township: 09N
UTM: Zone-10 N4275342 E488819	Range: 12W
Area: 454.6 acres	Section: 13
Elevation: 900 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: THE CEDARS, HEADWATERS OF AUSTIN CREEK, EAST AUSTIN CREEK, AND DANFIELD CREEK, ABOUT 5.5 MILES NORTH OF CAZADERO.

Location Detail: 11 COLONIES: S COLONY ALONG TRIBS TO AUSTIN AND EAST AUSTIN CR.; LARGE CENTRAL COLONY N OF LATON MINE; SMALL CENTRAL COLONY S OF LATON MINE; 4 NE COLONIES ALONG EAST AUSTIN CR. AND ASSOCIATED TRIBS; 4 NW COLONIES IN DANFIELD CREEK DRAINAGE.

Ecological: SERPENTINE CHAPARRAL AND CUPRESSUS SARGENTII WOODLAND. WITH ARCTOSTAPHYLOS BAKERI SSP SUBLAEVIS, A. VISCIDA PULCHELLA, QUERCUS DURATA, CEANOETHUS CUNEATUS, C. JEPSONII SSP JEPSONII, HOLODISCUS SPP, IRIS MACROSIPHON, ZIGADENUS SPP, ET AL.

Threat: OLD MINING ACTIVITY IN AREA, NO RECENT ACTIVITY NOTED. SOME RANCH ROADS CUT THROUGH AREA.

General: 1000+ PLANTS IN ENTIRE AREA IN 1988. HUNDREDS OF PLANTS AT WESTERN END OF S COLONY IN 1994; 20-50 PLANTS SEEN JUST NORTHWEST OF LATON MINE IN 1994. THE RARE ARCTOSTAPHYLOS BAKERI SSP SUBLAEVIS AND CYPRIPEDIUM CALIFORNICUM ALSO AT THIS SITE.

Owner/Manager: BLM, PVT

Calycadenia micrantha

small-flowered calycadenia

Element Code: PDAST1P0C0

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G2G3 State: S2S3.2	CNPS List: 1B.2

Habitat Associations

General: CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, MEADOWS AND SEEPS, LOWER MONTANE CONIFEROUS FOREST.
Micro: ROCKY TALUS OR SCREE; SPARSELY VEGETATED AREAS. OCCASIONALLY ON ROADSIDES; SOMETIMES ON SERPENTINE. 5-1500M.

Occurrence No. 4	Map Index: 17131	EO Index: 63743	Dates Last Seen
Occ Rank: Unknown			Element: 1950-05-06
Origin: Natural/Native occurrence			Site: 1950-05-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-01-11

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93143° / -122.92345°	Township: 13N
UTM: Zone-10 N4309170 E506635	Range: 10W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,525 ft	Section: 36 Qtr: S
	Symbol Type: POLYGON
	Meridian: M

Location: 1.0 MI WEST OF HIGHLAND SPRINGS ON BOTH SIDES OF THE ROAD; MAYACMAS MOUNTAINS.
Location Detail: LOCATION DESCRIPTION VAGUE, MAPPED AS BEST GUESS 1 MI WEST ALONG HIGHLAND SPRINGS ROAD FROM SOUTHERN TIP OF RESERVOIR AT HIGHLAND SPRINGS.
Ecological: ON SMALL GRASSY KNOLL OVER SERPENTINE.
General: COLLECTED AS CALYCADENIA TRUNCATA SSP. MICROCEPHALA; MAPPED BY CNDDDB AS C. MICRANTHA BASED ON RANGE. NEEDS FIELDWORK TO VERIFY.

Owner/Manager: UNKNOWN

Occurrence No. 5	Map Index: 63649	EO Index: 63744	Dates Last Seen
Occ Rank: Unknown			Element: 2003-08-23
Origin: Natural/Native occurrence			Site: 2003-08-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-01-11

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.99528° / -122.93049°	Township: 13N
UTM: Zone-10 N4316255 E506019	Range: 10W
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 1,640 ft	Section: 12 Qtr: NW
	Symbol Type: POINT
	Meridian: M

Location: ALONG HIGHWAY 175, ABOUT 2.5 MI WEST OF JUNCTION WITH HIGHWAY 29; WEST OF LAKEPORT.
Location Detail: MAPPED BASED ON LAT/LONG COORDINATES PROVIDED.
General: 2003 CARR COLLECTION IS THE ONLY SOURCE FOR THIS SITE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Carex comosa

bristly sedge

Element Code: PMCYP032Y0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CNPS List: 2.1
State: None	State: S2?	

Habitat Associations

General: MARSHES AND SWAMPS.

Micro: LAKE MARGINS, WET PLACES; SITE BELOW SEA LEVEL IS ON A DELTA ISLAND. -5-1005M.

Occurrence No. 9	Map Index: 50097	EO Index: 50097	Dates Last Seen
Occ Rank: Good			Element: 1999-09-20
Origin: Natural/Native occurrence			Site: 1999-09-20
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2003-02-04

Quad Summary: Hopland (3812381/535A)

County Summary: Mendocino

Lat/Long: 38.99683° / -123.07038°	Township: 13N
UTM: Zone-10 N4316427 E493905	Range: 11W
Radius: 80 meters	Section: 09
Elevation: 982 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: APPROXIMATELY 2.1 AIRMILES NORTHEAST OF OLD HOPLAND. NEAR TWO SMALL LAKES ON TOPO.

Location Detail: MAPPED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 9.

Ecological: EDGE OF SAG POND WITH TYPHA SP., POLYGONUM PUNCTATUM & MENTHA PULEGIUM.

Threat: ENCROACHING MENTHA PULEGIUM. LOCATED IN "BIOLOGICAL AREA", FENCED FROM LIVESTOCK USE.

General: ~75 PLANTS OBSERVED IN 1999, COMPRISED OF ONE SOLID PATCH & TWO SMALL ADJACENT CLUMPS.

Owner/Manager: UC

Ceanothus confusus

Rincon Ridge ceanothus

Element Code: PDRHA04220

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G2 CNPS List: 1B.1
 State: None State: S2.2

Habitat Associations

General: CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL, CISMONTANE WOODLAND.
 Micro: KNOWN FROM VOLCANIC OR SERPENTINE SOILS, DRY SHRUBBY SLOPES. 75-1065M.

Occurrence No. 10 Map Index: 07863 EO Index: 18707 Dates Last Seen _____
 Occ Rank: Fair Element: 2000-06-23
 Origin: Natural/Native occurrence Site: 2000-06-23
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2001-10-04

Quad Summary: Geyserville (3812268/518B)
 County Summary: Sonoma

Lat/Long: 38.65655° / -122.97991° Township: 09N
 UTM: Zone-10 N4278665 E501747 Range: 10W
 Area: 355.2 acres Mapping Precision: SPECIFIC Section: 04 Qtr: SW
 Elevation: 900 ft Symbol Type: POLYGON Meridian: M

Location: SOUTH OF BRADFORD MOUNTAIN ALONG RIDGE NORTHEAST OF CHAPMAN CREEK, WEST OF HEALDSBURG.
 Location Detail: MOSTLY ALONG CREST OF RIDGE FROM JUST NORTH OF THE HEAD OF DORMAN CANYON TO JUST NORTH OF THE MOUTH OF CHAPMAN CREEK. COLLECTIONS FROM "DORMAN CREEK" AND "DRY CREEK AREA" ARE ATTRIBUTED TO THIS SITE. MAPPED AS 2 LARGE AND 1 SMALL POLYGONS.
 Ecological: WITH CHAPARRAL, CHAPARRAL BARRENS. ASSOCIATED WITH ARCTOSTAPHYLOS STANFORDIANA REPENS, BRODIAEA LEPTANDRA, FRITILLARIA RECURVA, CEANOTHUS FOLIOSUS, HORKELIA TENUIFOLIA, ETC. SOILS DERIVED FROM RHYOLITE-LIKE ROCK THAT RESEMBLES SANDSTONE.
 Threat: ROADS, DIRTBIKE USE, RESIDENTIAL DEVELOPMENT, VINEYARD CONVERSION, LOGGING.
 General: 1000+ PLANTS SEEN IN BRADFORD MTN AREA IN 1984-1986 (OCCURRENCES #10, 23, 24). POSSIBLE TAXONOMIC PROBLEMS (NOBS, 1963). FIELD RESEARCH IN 1978-1979 FAILED TO LOCATE PURE SPECIMENS. SEVERAL PLANTS SEEN IN 2000 IN THE E 1/2 OF SECTION 32.

Owner/Manager: UNKNOWN

Occurrence No. 19 Map Index: 42109 EO Index: 42109 Dates Last Seen _____
 Occ Rank: Unknown Element: 1985-11-28
 Origin: Natural/Native occurrence Site: 1985-11-28
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-01-06

Quad Summary: Cloverdale (3812371/535D)
 County Summary: Sonoma

Lat/Long: 38.79217° / -123.06243° Township: 11N
 UTM: Zone-10 N4293716 E494578 Range: 11W
 Area: 13.4 acres Mapping Precision: SPECIFIC Section: 23 Qtr: NW
 Elevation: 1,300 ft Symbol Type: POLYGON Meridian: M

Location: NORTHWEST SLOPE OF RED MOUNTAIN, WEST OF CLOVERDALE.
 Location Detail: MAPPED ALONG KNOLL ABOUT 0.3 MILE NW OF SUMMIT. SITE IS WITHIN THE NW 1/4 NW 1/4 SECTION 23 AND THE NE 1/4 NE 1/4 SECTION 22.
 Ecological: DEPAUPERATE CHAPARRAL ON RHYOLITE-LIKE ROCK WITH CEANOTHUS JEPSONII VAR. ALBIFLORUS, ADENOSTOMA FASCICULATUM, HETEROMELES ARBUTIFOLIA, QUERCUS DURATA, IRIS MACROSIPHON, HYPERICUM CONCINNUM, ETC.
 Threat: FIRE ROADS; DEVELOPMENT ENCROACHING INTO HILLS FROM CLOVERDALE.
 General: ABOUT 50 PLANTS OBSERVED IN 1985.

Owner/Manager: UNKNOWN

Ceanothus confusus

Rincon Ridge ceanothus

Element Code: PDRHA04220

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.1
State: None	State: S2.2	

Habitat Associations

General: CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL, CISMONTANE WOODLAND.
Micro: KNOWN FROM VOLCANIC OR SERPENTINE SOILS, DRY SHRUBBY SLOPES. 75-1065M.

Occurrence No. 23	Map Index: 42106	EO Index: 42106	Dates Last Seen
Occ Rank: Fair			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-01-06

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.64826° / -122.94698°	Township: 09N
UTM: Zone-10 N4277746 E504613	Range: 10W
Area: 126.1 acres	Section: 10
Elevation: 700 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: SOUTH OF BRADFORD MOUNTAIN ALONG RIDGE NORTH OF CRANE CREEK, ABOUT 0.6-1.6 MI WEST OF DRY CREEK, WEST OF HEALDSBURG.
Location Detail: MOSTLY ALONG CREST OF RIDGE WITHIN THE N 1/2 NE 1/4 SECTION 10 AND THE N 1/2 NW 1/4 SECTION 11.
Ecological: WITH CHAPARRAL AND CHAPARRAL BARRENS. ASSOCIATED WITH ARCTOSTAPHYLOS STANFORDIANA REPENS, BRODIAEA LEPTANDRA, FRITILLARIA RECURVA, CEANOTHUS FOLIOSUS, HORKELIA TENUIFOLIA, ETC. SOILS DERIVED FROM RHYOLITE-LIKE ROCK THAT RESEMBLES SANDSTONE.
Threat: ROADS, DIRTBKIE USE, RESIDENTIAL DEVELOPMENT, VINEYARD CONVERSION.
General: 1000+ PLANTS OBSERVED IN THE BRADFORD MOUNTAIN AREA IN 1984-1986 (OCCURENCES #10, 23, 24).
Owner/Manager: UNKNOWN

Occurrence No. 24	Map Index: 42107	EO Index: 42107	Dates Last Seen
Occ Rank: Fair			Element: 1986-XX-XX
Origin: Natural/Native occurrence			Site: 1986-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-01-06

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.68339° / -122.97338°	Township: 10N
UTM: Zone-10 N4281643 E502315	Range: 10W
Area: 29.1 acres	Section: 28
Elevation: 1,100 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: BRADFORD MOUNTAIN, WEST OF DRY CREEK, WEST OF HEALDSBURG.
Location Detail: ALONG SUMMIT AND SOUTHERN RIDGE OF BRADFORD MOUNTAIN. MAPPED MOSTLY WITHIN THE W 1/2 SE 1/4 SECTION 28.
Ecological: WITH CHAPARRAL AND CHAPARRAL BARRENS. ASSOCIATED WITH ARCTOSTAPHYLOS STANFORDIANA REPENS, BRODIAEA LEPTANDRA, FRITILLARIA RECURVA, CEANOTHUS FOLIOSUS, HORKELIA TENUIFOLIA, ETC. SOILS DERIVED FROM RHYOLITE-LIKE ROCK THAT RESEMBLES SANDSTONE.
Threat: ROADS, DIRTBKIE USE, RESIDENTIAL DEVELOPMENT, VINEYARD CONVERSION.
General: 1000+ PLANTS OBSERVED IN THE BRADFORD MOUNTAIN AREA IN 1984-1986 (OCCURENCES #10, 23, 24).
Owner/Manager: UNKNOWN

Ceanothus confusus

Rincon Ridge ceanothus

Element Code: PDRHA04220

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.1
State: None	State: S2.2	

Habitat Associations

General: CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL, CISMONTANE WOODLAND.
Micro: KNOWN FROM VOLCANIC OR SERPENTINE SOILS, DRY SHRUBBY SLOPES. 75-1065M.

Occurrence No. 28	Map Index: 42115	EO Index: 42115	Dates Last Seen
Occ Rank: Fair			Element: 1987-04-06
Origin: Natural/Native occurrence			Site: 1987-04-06
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-01-06

Quad Summary: Yorkville (3812382/535B)

County Summary: Mendocino

Lat/Long: 38.96742° / -123.14810°	Township: 13N
UTM: Zone-10 N4313171 E487169	Range: 12W
Area: 12.7 acres	Section: 23
Elevation: 800 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: DUNCAN CREEK, ALONG YORKVILLE ROAD ABOUT 0.5 MILE SOUTHWEST OF FELIZ CREEK ROAD, NORTHEAST OF YORKVILLE.

Location Detail: MAPPED ALONG E-FACING SLOPES WEST OF ROAD WITHIN THE W 1/4 SE 1/4 SECTION 23.

Ecological: IN CHAPARRAL AND OPEN QUERCUS AGRIFOLIA WOODLAND ON WHITE TUFF-LIKE SUBSTRATE. ASSOCIATED WITH ARCTOSTAPHYLOS MANZANITA, ADENOSTOMA FASCICULATUM, QUERCUS DURATA, UMBELLULARIA CALIFORNICA, HETEROMELES ARBUTIFOLIA, AND VARIOUS HERBS.

Threat: CURRENT GRAZING PRACTICE IS DAMAGING TO THIS TAXON.

General: 50-100 PLANTS OBSERVED IN 1987.

Owner/Manager: UNKNOWN

Corynorhinus townsendii

Townsend's big-eared bat

Element Code: AMACC08010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G4	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: THROUGHOUT CALIFORNIA IN A WIDE VARIETY OF HABITATS. MOST COMMON IN MESIC SITES.

Micro: ROOSTS IN THE OPEN, HANGING FROM WALLS & CEILINGS. ROOSTING SITES LIMITING. EXTREMELY SENSITIVE TO HUMAN DISTURBANCE.

Occurrence No. 136	Map Index: 37280	EO Index: 32280	Dates Last Seen
Occ Rank: Unknown			Element: 1987-06-18
Origin: Natural/Native occurrence			Site: 1987-06-18
Presence: Presumed Extant			
Trend: Decreasing			Record Last Updated: 1997-10-21

Quad Summary: Hopland (3812381/535A), Purdys Gardens (3912311/550D)

County Summary: Mendocino

Lat/Long: 39.00237° / -123.08328°	Township: 13N
UTM: Zone-10 N4317043 E492788	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 820 ft	Section: 08 Qtr: XX
	Meridian: M
	Symbol Type: POLYGON

Location: HOPLAND FIELD STATION, 1.8 MILES E OF HIGHWAY 101 AND 2.7 MILES NE OF HOPLAND.

Ecological: 2 INDIVIDUALS OBSERVED, 1 YOUNG AND 1 FEMALE.

Threat: HUMAN ACTIVITY.

General: THE REPORT SUGGESTS THAT THERE IS A MARKED POPULATION DECLINE IN THE PAST 40 YEARS FOR THIS SPECIES. MAPPED TO COORDINATES AND WRITEN INFORMATION.

Owner/Manager: PVT

Cryptantha clevelandii var. *dissita*

serpentine cryptantha

Element Code: PDBOR0A0H2

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T1	CNPS List: 1B.1
State: None	State: S1.1	

Habitat Associations

General: CHAPARRAL.
 Micro: SERPENTINE OUTCROPS. 330-730M.

Occurrence No. 3	Map Index: 24302	EO Index: 29068	Dates Last Seen
Occ Rank: Unknown			Element: 1943-05-10
Origin: Natural/Native occurrence			Site: 1943-05-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-05-24

Quad Summary: Highland Springs (3812288/534B), Lakeport (3912218/549C)
County Summary: Lake, Mendocino

Lat/Long: 38.98746° / -122.97222°	Township: 13N
UTM: Zone-10 N4315385 E502405	Range: 10W
Radius: 1 mile	Section: 09
Elevation: 1,800 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 5 MILES WEST OF LAKEPORT ON ROAD TO HOPLAND.
Location Detail: MAPPED ALONG HIGHWAY 175, 5 MILES FROM JUNCTION WITH HIGHWAY 29. 1938 COLLECTION BY BAKER FROM "WEST OF LAKEPORT...NEAR FOOT OF GRADE" IS ALSO MAPPED AT THIS SITE.
Ecological: SERPENTINE.
General: TYPE LOCALITY. TWO COLLECTIONS ATTRIBUTED TO THIS SITE; HOWELL #18008 (CAS) IN 1943 AND BAKER #8956 (DU) IN 1938.
Owner/Manager: UNKNOWN

Occurrence No. 9	Map Index: 61240	EO Index: 61276	Dates Last Seen
Occ Rank: Unknown			Element: 1999-06-01
Origin: Natural/Native occurrence			Site: 1999-06-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-05-06

Quad Summary: Cloverdale (3812371/535D)
County Summary: Mendocino

Lat/Long: 38.86956° / -123.06604°	Township: 12N
UTM: Zone-10 N4302304 E494270	Range: 11W
Area: 4.4 acres	Section: 22
Elevation: 1,050 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: WEST OF RUSSIAN RIVER, ABOUT 2.0 MILES NORTHWEST OF REDWOOD MOUNTAIN AND 0.5 MILES EAST OF PEAK 1582.
Location Detail: ALONG JEEP ROAD ASCENDING RIDGE AT LAT-LONG 38 52' 10" N, 123 03' 55" W/IN THE SE 1/4 OF THE SE 1/4 OF SECTION 22.
Ecological: SERPENTINE BARRENS AND CHAPARRAL WITH SPARSE QUERCUS DURATA THICKETS, AND PERENNIAL GRASSLANDS WITH NASSELLA.
Owner/Manager: UNKNOWN

Occurrence No. 10	Map Index: 61243	EO Index: 61279	Dates Last Seen
Occ Rank: Unknown			Element: 1999-06-01
Origin: Natural/Native occurrence			Site: 1999-06-01
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-05-06

Quad Summary: Cloverdale (3812371/535D)
County Summary: Mendocino

Lat/Long: 38.86767° / -123.05390°	Township: 12N
UTM: Zone-10 N4302094 E495323	Range: 11W
Radius: 80 meters	Section: 23
Elevation: 450 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: ABOUT 1.5 MILES NNW OF REDWOOD MOUNTAIN AND 0.7 MILES WNW OF CONFLUENCE OF EDWARDS CREEK AND RUSSIAN RIVER.
Location Detail: MAPPED AT LAT-LONG PROVIDED (38 52' 04" N, 123 03' 10" W) IN THE SE 1/4 OF THE SW 1/4 OF SECTION 23.
Ecological: SERPENTINE BARRENS AND CHAPARRAL WITH SPARSE QUERCUS DURATA THICKETS, AND PERENNIAL GRASSLANDS WITH NASSELLA. COMMON ON DISTURBED FILL SLOPES.
Threat: MINING PROSPECTS ON SERPENTINE HILLSLOPES ON EDGE OF LARGE VINEYARD.
Owner/Manager: UNKNOWN

Didymodon norrisii

Norris' beard moss

Element Code: NBMUS2C0H0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2G3	CNPS List: 2.2
State: None	State: S2.2	

Habitat Associations

General: CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: MOSS FROM INTERMITTENTLY MESIC SITES; ON ROCKS. 600-1700M.

Occurrence No. 17	Map Index: 65394	EO Index: 65473	Dates Last Seen
Occ Rank: Unknown			Element: 2002-03-25
Origin: Natural/Native occurrence			Site: 2002-03-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2006-07-26

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.99552° / -122.94271°	Township: 13N
UTM: Zone-10 N4316282 E504960	Range: 10W
Radius: 1/10 mile	Section: 11 Qtr: NW
Elevation: 1,460 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Symbol Type: POINT

Location: ROUGHLY 4 AIR MILES SSW OF LAKEPORT. ON THE N SIDE OF HWY 175, 1.8 ROAD MILES WEST OF THE INTERSECTION WITH GEORGE RD.
Location Detail: IN THE NE 1/4 OF THE NW 1/4 OF SECTION 11. LOCATION BASED ON COORDINATES PROVIDED IN COLLECTION INFORMATION.
Ecological: ON BARE SOIL IN RAIN GULLY.
General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE THREE 2002 COLLECTIONS BY ALLEN.
Owner/Manager: UNKNOWN

Entosthodon kochii

Koch's cord moss

Element Code: NBMUS2P050

Status ----- **NDDB Element Ranks** ----- **Other Lists** -----
 Federal: None Global: G1 CNPS List: 1B.3
 State: None State: S1.3

Habitat Associations -----
 General: CISMONTANE WOODLAND.
 Micro: MOSS GROWING ON SOIL. 500-1000M.

Occurrence No. 4 **Map Index:** 35147 **EO Index:** 72342 **Dates Last Seen** -----
Occ Rank: Unknown **Element:** XXXX-XX-XX
Origin: Natural/Native occurrence **Site:** XXXX-XX-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2008-06-05

Quad Summary: Hopland (3812381/535A), Purdys Gardens (3912311/550D)
County Summary: Mendocino

Lat/Long: 39.00231° / -123.08436° **Township:** 13N
UTM: Zone-10 N4317036 E492695 **Range:** 11W
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 08 **Qtr:** XX
Elevation: 1,000 ft **Symbol Type:**POINT **Meridian:** M

Location: UC HOPLAND FIELD STATION.
General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS UNDATED COLLECTION BY KELLMAN. NEEDS FIELDWORK.
Owner/Manager: UC-HOPLAND FIELD STATION

Harmonia guggolziorum

Guggolz's harmonia

Element Code: PDAST650M0

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G1 State: S1.1	CNPS List: 1B.1

Habitat Associations
 General: CHAPARRAL.
 Micro: OPEN AREAS ON SERPENTINE. 160-195M.

Occurrence No. 1	Map Index: 55681	EO Index: 55681	Dates Last Seen
* SENSITIVE *	Occ Rank: Unknown	Origin: Natural/Native occurrence	Element: 2000-04-30 Site: 2000-04-30
	Presence: Presumed Extant	Trend: Unknown	Record Last Updated: 2007-12-19

Quad Summary: Yorkville (3812382/535B)
County Summary: Mendocino

* SENSITIVE *	Lat/Long:	Mapping Precision:	Township:	
	UTM:		Range:	
	Radius:	Symbol Type:	Section:	Qtr:
	Elevation:		Meridian:	

Location: *SENSITIVE* Location information suppressed.
Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.
Ecological: ON SERPENTINE (SEMI-) BARRENS, AT EDGES OF SERPENTINE CHAPARRAL.
Threat: ROAD MAINTENANCE AND WIDENING, VINEYARDS, HOUSING CONSTRUCTION.
Owner/Manager:

Occurrence No. 2	Map Index: 55682	EO Index: 55682	Dates Last Seen
* SENSITIVE *	Occ Rank: Unknown	Origin: Natural/Native occurrence	Element: 2001-05-08 Site: 2001-05-08
	Presence: Presumed Extant	Trend: Unknown	Record Last Updated: 2007-12-19

Quad Summary: Yorkville (3812382/535B)
County Summary: Mendocino

* SENSITIVE *	Lat/Long:	Mapping Precision:	Township:	
	UTM:		Range:	
	Radius:	Symbol Type:	Section:	Qtr:
	Elevation:		Meridian:	

Location: *SENSITIVE* Location information suppressed.
Location Detail: Please contact the California Natural Diversity Database, California Department of Fish and Game, for more information: (916) 324-3812.
Ecological: ABOVE THE ROADCUT ON SERPENTINE (SEMI-) BARREN HILLSIDE, AT EDGES OF SERPENTINE CHAPARRAL.
Threat: ROAD CONSTRUCTION, VINEYARDS, HOUSING DEVELOPMENT.
Owner/Manager:

Hemizonia congesta ssp. *congesta*

seaside tarplant

Element Code: PDAST4R065

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5T2T3	CNPS List: 1B.2
State: None	State: S2S3	

Habitat Associations

General: COASTAL SCRUB, VALLEY AND FOOTHILL GRASSLAND.
Micro: GRASSY VALLEYS AND HILLS, OFTEN IN FALLOW FIELDS. 25-200M.

Occurrence No.: 32	Map Index: 73001	EO Index: 73920	Dates Last Seen
Occ Rank: Unknown			Element: 1976-09-XX
Origin: Natural/Native occurrence			Site: 1976-09-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-11-25

Quad Summary: Warm Springs Dam (3812361/519A)

County Summary: Sonoma

Lat/Long: 38.71527° / -123.06666°	Township: 10N
UTM: Zone-10 N4285183 E494204	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation:	Section: 15 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: 3.1 AIR MILES WEST OF WARM SPRINGS DAM.

Location Detail: MAPPED BY CNDDDB ACCORDING TO T-R-S INFORMATION PROVIDED BY GUGGOLZ: T10N, R11W, SE 1/4 OF THE NW 1/4 OF SECTION 15.

Ecological: PLANT FOUND ON ROADSIDE.

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1976 COLLECTION BY GUGGOLZ.

Owner/Manager: UNKNOWN

Hesperolinon adenophyllum

glandular western flax

Element Code: PDLIN01010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.3	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: SERPENTINE SOILS; GENERALLY FOUND IN SEPENTINE CHAPARRAL. 425-1315M.

Occurrence No. 17	Map Index: 07933	EO Index: 18593	Dates Last Seen
Occ Rank: Fair			Element: 1999-06-18
Origin: Natural/Native occurrence			Site: 1999-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-04-13

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.94942° / -122.96118°	Township: 13N
UTM: Zone-10 N4311164 E503363	Range: 10W
Area: 3.8 acres	Section: 27
Elevation: 1,920 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: HIGHLAND SPRINGS ROAD ABOUT 3.5 - 4.5 MILES WEST OF HIGHLAND SPRINGS, MAYACMAS MOUNTAINS.
Location Detail: 2 COLONIES. WEST COLONY ON NORTH SIDE OF ROAD ON BARE ROAD CUT, JUST WEST OF CREEK CROSSING. MAPPED WITHIN THE NW 1/4 NW 1/4 SECTION 27. EAST COLONY ON BOTH SIDES OF THE ROAD, MAPPED WITHIN THE SE 1/4 NW 1/4 OF SECTION 27.
Ecological: ASSOCIATED WITH CALYCADENA MULTIGLANDULOSA, CEANOOTHUS CUNEATUS, AND QUERCUS DURATA. LESS THAN 20% VEGETATION COVER. SERPENTINE ROAD CUTS.
Threat: ROAD MAINTENANCE, GRADING, SUSCEPTIBLE TO EROSION. PLANTS COULD BE DESTROYED BY HERBICIDE MISUSE.
General: 1995:30-40 PLANTS AT E COLONY. 1999:3 PLANTS AT E COLONY AND 1 PLANT AT W COLONY. 1931 COLLECTION BY HILDEBRAND FROM 3 MI W OF HIGHLAND SPRINGS ON TOLL ROAD ATTRIBUTED TO THIS SITE. THE RARE CALYSTEGIA COLLINA SSP. OXYPHYLLA OCCURS NEARBY.
Owner/Manager: UNKNOWN

Occurrence No. 24	Map Index: 42758	EO Index: 42758	Dates Last Seen
Occ Rank: Excellent			Element: 1999-06-18
Origin: Natural/Native occurrence			Site: 1999-06-18
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-05-04

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.94348° / -122.91173°	Township: 13N
UTM: Zone-10 N4310508 E507649	Range: 09W
Area: 46.1 acres	Section: 30
Elevation: 1,460 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POLYGON	

Location: HIGHLAND SPRINGS ROAD, ALONG WEST SIDE OF HIGHLAND SPRINGS RESERVOIR, EAST OF THE MAYACMAS MOUNTAINS.
Location Detail: PLANTS OCCUR ON BOTH SIDES OF ROAD FROM ABOUT 0.5 - 1.2 MILES SOUTH OF HIGHLAND SPRINGS CUTOFF (EAST HIGHLAND SPRINGS ROAD). PLANTS ON BASE OF SLOPE NEAR ROAD AND ON TOP OF SLOPE APPROXIMATELY 6 FEET FROM ROAD EDGE.
Ecological: OPENINGS IN CHAMISE CHAPARRAL ON EAST FACING SLOPES. ASSOCIATED WITH AIRA CARYOPHYLLA, LOTUS HUMISTRATUS, BROMUS HORDEACEUS, VULPIA SPP., ERIOPHYLLUM LANATUM, AVENA BARBATA, TRITELEIA LAXA, MADIA EXIGUA, M. GRACILIS, ETC.
Threat: POSSIBLE THREATS INCLUDE ROAD MAINTENANCE, HERBICIDES. BLM PORTION OF THIS SITE UNDER CONSIDERATION FOR LAND
General: 1500-2000 PLANTS OBSERVED IN 1995. 100 PLANTS OBSERVED ON BLM CLEAR LAKE RESOURCE AREA PARCEL 117-L IN 1997. MORE THAN 5000 PLANTS OBSERVED IN 1999. THE RARE CALYSTEGIA COLLINA SSP. OXYPHYLLA OCCURS NEARBY.
Owner/Manager: PVT, BLM

Hesperolinon adenophyllum

glandular western flax

Element Code: PDLIN01010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.3	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: SERPENTINE SOILS; GENERALLY FOUND IN SEPENTINE CHAPARRAL. 425-1315M.

Occurrence No. 25	Map Index: 42759	EO Index: 42759	Dates Last Seen
Occ Rank: Good			Element: 1997-05-07
Origin: Natural/Native occurrence			Site: 1997-05-07
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-04-13

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93169° / -122.94197°	Township: 13N
UTM: Zone-10 N4309198 E505029	Range: 10W
Radius: 80 meters	Section: 35 Qtr: SW
Elevation: 2,360 ft	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POINT	

Location: HILLSLOPE ABOVE HIGHLAND CREEK, ABOUT 1.3 MILES NORTHEAST OF HIGH VALLEY RANCH, WEST OF HIGHLAND SPRINGS RESERVOIR.
Location Detail: ON RIDGELINE ADJACENT OT FIRE ROAD ABOUT 2-3 YEARS OLD IN 1997. MAPPED JUST SOUTH OF THE CENTER OF SECTION 35. BLM EXCHANGE PARCEL 147-L.

Ecological: ROCKY RIDGE ON RAW SERPENTINE AND REDDISH, WEATHERED SOILS. GROWING ON MARGIN OF DOZER ROAD, IN CHAPARRAL WITH PINUS ATTENUATA, CEANOETHUS JEPSONII VAR. ALBIFLORUS, AND CUPRESSUS SARGENTII.

Threat: PARCEL UNDER CONSIDERATION FOR SALE TO PRIVATE OWNER (LAND EXCHANGE).

General: 1000 PLANTS OBSERVED IN 1997.

Owner/Manager: BLM

Occurrence No. 26	Map Index: 42760	EO Index: 42760	Dates Last Seen
Occ Rank: Good			Element: 1998-06-24
Origin: Natural/Native occurrence			Site: 1998-06-24
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-28

Quad Summary: Highland Springs (3812288/534B)
County Summary: Mendocino, Lake

Lat/Long: 38.93098° / -122.96208°	Township: 13N
UTM: Zone-10 N4309118 E503286	Range: 10W
Area: 10.4 acres	Section: 34 Qtr: SW
Elevation: 2,640 ft	Meridian: M
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: NORTH SLOPE OF HIGH VALLEY, SLOPES ON EAST SIDE OF ADOBE CREEK ROAD, ABOUT 3 MILES WSW OF HIGHLAND SPRINGS RESERVOIR.
Location Detail: EXTENDING EASTWARD FROM ADOBE CREEK ROAD IN A RECENT 2-3 YEAR OLD (IN 1997) BURN AREA. MAPPED WITHIN THE NE 1/4 OF THE SW 1/4 OF SECTION 34. BLM EXCHANGE PARCEL 146-L.

Ecological: ROCKY RIDGE ON RAW SERPENTINE AND REDDISH, WEATHERED SOILS. GROWING IN MATRIX OF SERPENTINE CHAPARRAL OF PINUS SABINIANA, CEANOETHUS JEPSONII ALBIFLORUS, CUPRESSUS SARGENTII. PLANTS COLONIZING LOOSE SOIL FROM RECENT DISTURBANCE ALONG ROAD.

Threat: PARCEL UNDER CONSIDERATION FOR SALE TO PRIVATE OWNER (LAND EXCHANGE).

General: 5,000 PLANTS OBSERVED IN 1997, AND UNKNOWN NUMBER IN 1998.

Owner/Manager: BLM

Hesperolinon adenophyllum

glandular western flax

Element Code: PDLIN01010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.3	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: SERPENTINE SOILS; GENERALLY FOUND IN SEPENTINE CHAPARRAL. 425-1315M.

Occurrence No. 27	Map Index: 42763	EO Index: 42763	Dates Last Seen
Occ Rank: Unknown			Element: XXXX-XX-XX
Origin: Natural/Native occurrence			Site: XXXX-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-04-13

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake, Mendocino

Lat/Long: 38.88096° / -122.88849°	Township: 12N
UTM: Zone-10 N4303572 E509672	Range: 09W
Radius: 1/5 mile	Section: 17
Elevation: 2,500 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: EASTERN END OF PINE MOUNTAIN ROAD, AT BOUNDARY OF MENDOCINO AND LAKE COUNTIES.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE ARE COLLECTIONS BY RAICHE (40,210 CAS) AND KNIGHT (5436 CAS) CITED IN A FLORA OF THE VASCULAR PLANTS OF MENDOCINO COUNTY.

Owner/Manager: UNKNOWN

Occurrence No. 41	Map Index: 61836	EO Index: 61872	Dates Last Seen
Occ Rank: Unknown			Element: 1999-06-03
Origin: Natural/Native occurrence			Site: 1999-06-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-07-01

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.92288° / -122.90104°	Township: 12N
UTM: Zone-10 N4308223 E508578	Range: 09W
Area: 16.1 acres	Section: 06
Elevation: 1,800 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: ABOUT 5 MILES SOUTHWEST OF KELSEYVILLE AND 1.0 AIRMI SOUTH OF HIGHLAND SPRINGS.

Location Detail:ALONG ROADCUT ABOUT 1.1 ROAD MILES UPHILL FROM GATE AT HIGHLAND SPRINGS ROAD. MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 6.

Ecological: ROADCUT ON SANDSTONE IN CHAPARRAL. NORTH ASPECT. ASSOCIATED WITH ADENOSTOMA FASCICULATUM, QUERCUS BERBERIDIFOLIA, AND HETEROMELES ARBUTIFOLIA.

General: UNKNOWN NUMBER OF PLANTS SEEN IN 1999.

Owner/Manager: UNKNOWN

Horkelia bolanderi

Bolander's horkelia

Element Code: PDROS0W010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1	CNPS List: 1B.2
State: None	State: S1.2	

Habitat Associations

General: LOWER MONTANE CONIFEROUS FOREST, CHAPARRAL, MEADOWS, VALLEY AND FOOTHILL GRASSLAND.
Micro: GRASSY MARGINS OF VERNAL POOLS AND MEADOWS. 450-850M.

Occurrence No. 6	Map Index: 17131	EO Index: 9842	Dates Last Seen
Occ Rank: Unknown			Element: 1950-05-20
Origin: Natural/Native occurrence			Site: 1989-05-28
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1992-02-03

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93143° / -122.92345°	Township: 13N
UTM: Zone-10 N4309170 E506635	Range: 10W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 1,525 ft	Section: 36
	Meridian: M
	Symbol Type: POLYGON
	Qtr: S

Location: 1.2 MILES SOUTHWEST OF HIGHLAND SPRINGS.
Location Detail: LATEST SURVEY DIDN'T KNOW WHERE TO START MEASURING FROM. BETTER DIRECTIONS NEEDED FROM SWEENEY.
Ecological: SWEENEY'S ORIGINAL HERBERIUM LABEL SAYS PLANT COLLECTED ON 1 YEAR BURN IN CHAPARRAL ON SHALLOW ROCKY SOIL, SOUTH-FACING SLOPE. THIS IS ATYPICAL
General: MORE FIELD SURVEYS NEEDED.
Owner/Manager: UNKNOWN

Horkelia tenuiloba

thin-lobed horkelia

Status	NDDB Element Ranks	Element Code: PDROS0W0E0	Other Lists
Federal: None	Global: G2		CNPS List: 1B.2
State: None	State: S2.2		
Habitat Associations			
General: COASTAL SCRUB, CHAPARRAL.			
Micro: SANDY SOILS; MESIC OPENINGS. 45-500M.			

Occurrence No. 8	Map Index: 28819	EO Index: 30380	Dates Last Seen
Occ Rank: Excellent			Element: 1992-01-26
Origin: Natural/Native occurrence			Site: 1992-01-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-11

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.67560° / -122.97666°	Township: 10N
UTM: Zone-10 N4280778 E502030	Range: 10W
Area: 9.4 acres	Section: 33
Elevation: 1,040 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POLYGON	

Location: 0.5 MILE SSW OF BRADFORD MOUNTAIN, WEST OF ANDERSON VALLEY.
Location Detail: MAPPED ABOUT 1.7 AIR MILES WEST OF DRY CREEK ROAD AT MOUNTAIN VIEW RANCH ROAD AND 1.2 MILES SOUTHWEST OF THE SW ARM OF MERLO LAKE.
Ecological: GROWING IN OPEN SPACES BETWEEN ARCTOSTAPHYLOS WITH CEANOTHUS CONFUSUS. OTHER ASSOCIATES INCLUDE DENDROMECON RIGIDA, ADENOSTOMA FASCICULATUM, AND TOXICODENDRON DIVERSILOBUM. ARCTOSTAPHYLOS STANFORDIANA VAR. REPENS OCCURS NEARBY.
Threat: PART OF PROPERTY TO BE DEVELOPED FOR HOMESITE AND SMALL VINEYARD.
General: 200+ PLANTS OBSERVED IN 1992. SOME PROTECTION OF THIS SITE TO BE PROVIDED BY A CONSERVATION AGREEMENT FOR THE A. STANFORDIANA REPENS.
Owner/Manager: PVT

Occurrence No. 9	Map Index: 28820	EO Index: 30379	Dates Last Seen
Occ Rank: Excellent			Element: 1991-05-04
Origin: Natural/Native occurrence			Site: 1991-05-04
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-09-15

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.68265° / -122.97229°	Township: 10N
UTM: Zone-10 N4281561 E502410	Range: 10W
Area: 20.9 acres	Section: 28
Elevation: 1,060 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: TOP OF BRADFORD MOUNTAIN, WEST OF ANDERSON VALLEY.
Location Detail: FROM SUMMIT SOUTH ALONG FIREBREAK FOR ABOUT 0.25 MILE.
Ecological: ON FIREBREAK AND IN CLEAR AREAS IN THE BRUSH ON BOTH SIDES OF THE BREAK. YELLOW CLAY SOIL. ASSOCIATED WITH CEANOTHUS CONFUSUS, ADENOSTOMA FASCICULATUM, AND ERIODICTYON CALIFORNICUM. HORKELIA FOUND ON SLIGHT SLOPES.
Threat: MAINTENANCE OF FIRE BREAK SETS PLANTS BACK A SHORT TIME, BUT MAY BE BENEFICIAL OVER TIME.
General: 100+ PLANTS OBSERVED IN 1991.
Owner/Manager: PVT

Lasiurus blossevillii

western red bat

Element Code: AMACC05060

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status: SC
State: None	State: S3?	

Habitat Associations

General: ROOSTS PRIMARILY IN TREES, 2-40 FT ABOVE GROUND, FROM SEA LEVEL UP THROUGH MIXED CONIFER FORESTS.
Micro: PREFERS HABITAT EDGES & MOSAICS WITH TREES THAT ARE PROTECTED FROM ABOVE & OPEN BELOW WITH OPEN AREAS FOR FORAGING.

Occurrence No. 96	Map Index: 71708	EO Index: 72607	Dates Last Seen
Occ Rank: Unknown			Element: 1954-09-08
Origin: Natural/Native occurrence			Site: 1954-09-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-07-15

Quad Summary: Asti (3812278/534C)

County Summary: Sonoma

Lat/Long: 38.78952° / -122.99124°	Township: 11N
UTM: Zone-10 N4293420 E500760	Range: 10W
Radius: 1/5 mile	Section: 20
Elevation: 300 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POINT	

Location: ALEXANDER VALLEY, BLACK WINERY ON RIVER ROAD, 1.8 MILES SE OF THE CLOVERDALE POST OFFICE.
Location Detail: MAPPED TO DESCRIBED LOCATION OF "BLACK WINERY, 2 MILES SOUTHEAST OF CLOVERDALE, SONOMA COUNTY."
Ecological: IN CANOPY OF FIG TREE.
General: A FEMALE RED BAT WAS CAPTURED WHILE HANGING IN AN OVERHANG PRODUCED BY THE OVERLAPPING CANOPIES OF 2 FIG TREES ON 8 SEP 1954.
Owner/Manager: PVT

Lasiurus cinereus

hoary bat

Element Code: AMACC05030

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: None	State: S4?	

Habitat Associations

General: PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER & OPEN AREAS OR HABITAT EDGES FOR FEEDING.
Micro: ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.

Occurrence No. 67	Map Index: 68512	EO Index: 68827	Dates Last Seen
Occ Rank: Unknown			Element: 1958-05-19
Origin: Natural/Native occurrence			Site: 1958-05-19
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2007-03-16

Quad Summary: Yorkville (3812382/535B)

County Summary: Mendocino

Lat/Long: 38.97302° / -123.19060°	Township: 13N
UTM: Zone-10 N4313800 E483488	Range: 12W
Radius: 1 mile	Section: 21
Elevation:	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: 4 MILES WEST OF HOPLAND.

Location Detail: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY MANIS, WITH UNCERTAINTY OF 6564.5142M. COORDINATES DO NOT MATCH WITH LOCALITY GIVEN, "4 MILES E OF HOPLAND;" RATHER THEY POINT TO 4 MILES W OF HOPLAND.

General: 7 MALE AND 1 FEMALE SPECIMEN COLLECTED (MVZ #122493-122532) COLLECTED BY ALAN C. ZIEGLER & CARL B. KOFORD ON 10, 12, 19-20 APR AND 19 MAY 1958.

Owner/Manager: UNKNOWN

Lavinia exilicauda chi

Clear Lake hitch

Element Code: AFCJB19011

Status

NDDB Element Ranks

Other Lists

Federal: None

Global: G5T2

CDFG Status: SC

State: None

State: S2

Habitat Associations

General: FOUND ONLY IN CLEAR LAKE, LAKE CO, AND ASSOCIATED PONDS. SPAWNS IN STREAMS FLOWING INTO CLEAR LAKE.

Micro: ADULTS FOUND IN THE LIMNETIC ZONE. JUVENILES FOUND IN THE NEARSHORE SHALLOW-WATER HABITAT HIDING IN THE VEGETATION.

Occurrence No. 2

Map Index: 63527

EO Index: 63619

Dates Last Seen

Occ Rank: Unknown

Element: 1963-04-12

Origin: Natural/Native occurrence

Site: 1963-04-12

Presence: Presumed Extant

Trend: Unknown

Record Last Updated: 2005-12-28

Quad Summary: Highland Springs (3812288/534B)

County Summary: Lake

Lat/Long: 38.95744° / -122.89042°

Township: 13N

UTM: Zone-10 N4312060 E509494

Range: 09W

Area:

Mapping PrecisionNON-SPECIFIC

Section: 20

Qtr: SW

Elevation: 1,413 ft

Symbol Type:POLYGON

Meridian: M

Location: ADOBE CREEK AT BELL HILL ROAD IN BIG VALLEY

Ecological: TRIBUTARY CREEK TO CLEAR LAKE.

General: COLLECTED 12 APR 1963 BY J.D. HOPKIRD & C.C. SWIFT (CAS #23261) PARATYPE.

Owner/Manager: UNKNOWN

Layia septentrionalis

Colusa layia

Element Code: PDAST5N0F0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: SCATTERED COLONIES IN FIELDS AND GRASSY SLOPES IN SANDY OR SERPENTINE SOIL. 145-1095M.

Occurrence No. 4	Map Index: 24302	EO Index: 29069	Dates Last Seen
Occ Rank: Unknown			Element: 1943-05-10
Origin: Natural/Native occurrence			Site: 1943-05-10
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-01-25

Quad Summary: Highland Springs (3812288/534B), Lakeport (3912218/549C)
County Summary: Lake, Mendocino

Lat/Long: 38.98746° / -122.97222°	Township: 13N
UTM: Zone-10 N4315385 E502405	Range: 10W
Radius: 1 mile	Section: 09
Elevation: 1,800 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: SE
Symbol Type: POINT	

Location: 5 MILES WEST OF LAKEPORT ON ROAD TO HOPLAND. MAPPED 5 ROAD MILES FROM JUNCTION OF HWYS 29 & 175.

General: ONLY INFO IS COLLECTION BY HOWELL (#18005).

Owner/Manager: UNKNOWN

Occurrence No. 12	Map Index: 24313	EO Index: 7031	Dates Last Seen
Occ Rank: Unknown			Element: 1978-05-05
Origin: Natural/Native occurrence			Site: 1978-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1993-10-11

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.90462° / -123.08916°	Township: 12N
UTM: Zone-10 N4306196 E492269	Range: 11W
Area:	Section: 09
Elevation: 600 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: 4.5 KM (2.8 MI) N OF HWY 128 ALONG MOUNTAIN HOUSE ROAD (RT 111).

General: ONLY INFO IS COLLECTION BY WHEELER & WHEELER (#297).

Owner/Manager: UNKNOWN

Occurrence No. 14	Map Index: 24303	EO Index: 7029	Dates Last Seen
Occ Rank: Unknown			Element: 1947-04-09
Origin: Natural/Native occurrence			Site: 1947-04-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-09-26

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.93683° / -122.90707°	Township: 13N
UTM: Zone-10 N4309770 E508054	Range: 09W
Radius: 1 mile	Section: 31
Elevation: 1,500 ft	Meridian: M
Mapping Precision: NON-SPECIFIC	Qtr: XX
Symbol Type: POINT	

Location: HIGHLAND SPRINGS, MAYACMAS RANGE.

Ecological: FOOTHILLS.

General: 1928 AND 1947 COLLECTIONS FROM "HIGHLAND SPRINGS" ATTRIBUTED TO THIS OCCURRENCE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Layia septentrionalis

Colusa layia

Element Code: PDAST5N0F0

Status	NDDB Element Ranks	Other Lists
Federal: None State: None	Global: G2 State: S2.2	CNPS List: 1B.2

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: SCATTERED COLONIES IN FIELDS AND GRASSY SLOPES IN SANDY OR SERPENTINE SOIL. 145-1095M.

Occurrence No. 28	Map Index: 37544	EO Index: 32546	Dates Last Seen
Occ Rank: Excellent			Element: 1995-05-05
Origin: Natural/Native occurrence			Site: 1995-05-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-06-29

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.93503° / -123.04058°	Township: 13N
UTM: Zone-10 N4309568 E496482	Range: 11W
Radius: 80 meters	Section: 35
Elevation: 1,060 ft	Meridian: M
	Qtr: SW

Location: ABOUT 5 MILES SE OF HOPLAND. ALONG JEEP TRAIL 1.7 MILES NE OF SQUAW ROCK SLIDE HISTORICAL MARKER.
Location Detail: IN THE SE 1/4 OF THE SW 1/4 OF SECTION 35.
Ecological: OAK WOODLAND/NON-NATIVE GRASSLAND WITH AVENA BARBATA, LAGOPHYLLA RAMOSISSIMA, TRIFOLIUM CILIOLATUM, T. MICROCEPHALUM, AND ALBOPURPUREUM.
General: 200 PLANTS IN 1995.
Owner/Manager: PVT

Occurrence No. 29	Map Index: 37545	EO Index: 32547	Dates Last Seen
Occ Rank: Excellent			Element: 1995-04-26
Origin: Natural/Native occurrence			Site: 1995-04-26
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-11-06

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.94804° / -123.02773°	Township: 13N
UTM: Zone-10 N4311011 E497596	Range: 11W
Area: 4.5 acres	Section: 36
Elevation: 1,200 ft	Meridian: M
	Qtr: NW

Location: ABOUT 6 MI ESE OF HOPLAND, ALONG YOUNCE ROAD.
Location Detail: THREE LITTLE POPULATIONS MAPPED. TWO IN NW1/4 OF NW1/4 OF SECTION 36. ONE IN NE 1/4 OF NE 1/4 OF SECTION 35.
Ecological: EAST AND WEST-FACING SLOPES OF LOOSE ROCK ABOVE ROADCUT. WITH AVENA BARBATA, BROMUS SP., ERIOGONUM NUDUM, MELICA IMPERFECTA, MONARDELLA SP., TRIFOLIUM MICROCEPHALUM, TUNICA PROLIFERA, MONTIA EXIGUA, THYSANOCARPUS SP., AND LINANTHUS SP.
General: MORE THAN 250 PLANTS IN 1995.
Owner/Manager: PVT?

Occurrence No. 30	Map Index: 37748	EO Index: 32755	Dates Last Seen
Occ Rank: Unknown			Element: 1949-05-11
Origin: Natural/Native occurrence			Site: 1949-05-11
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-12-22

Quad Summary: Cloverdale (3812371/535D)
County Summary: Sonoma

Lat/Long: 38.83684° / -123.02127°	Township: 11N
UTM: Zone-10 N4298671 E498153	Range: 10W
Radius: 1 mile	Section: 06
Elevation: 600 ft	Meridian: M
	Qtr: XX

Location: 2 MILES NORTH OF CLOVERDALE.
Location Detail: MAPPED IN VICINITY OF PRESTON ALONG THE RUSSIAN RIVER.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1949 COLLECTION BY BEANE.
Owner/Manager: UNKNOWN

Lupinus sericatus

Cobb Mountain lupine

Element Code: PDFAB2B3J0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List: 1B.2
State: None	State: S2.2	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.

Micro: IN STANDS OF KNOBCONE PINE-OAK WOODLAND, ON OPEN WOODED SLOPES IN GRAVELLY SOILS; SOMETIMES ON SERPENTINE. 180-1500M.

Occurrence No. 22	Map Index: 35501	EO Index: 30919	Dates Last Seen
Occ Rank: Good			Element: 1986-04-23
Origin: Natural/Native occurrence			Site: 1986-04-23
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-02-27

Quad Summary: Big Foot Mtn. (3812372/535C)

County Summary: Sonoma

Lat/Long: 38.76589° / -123.17649°	Township: 11N
UTM: Zone-10 N4290812 E484667	Range: 12W
Area: 17.5 acres	Section: 34
Elevation: 1,950 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NE
Symbol Type: POLYGON	

Location: KELLY ROAD JUST WEST OF ROCKPILE ROAD, ABOUT 1.3 MILES SOUTH OF WHITE MOUNTAIN, WEST OF LAKE SONOMA.

Location Detail: ABOUT 0.2 MILE WEST OF ROCKPILE ROAD ROADSIDE CLIFF-FACE.

Ecological: OPEN SSW-FACING ROCK CLIFFS AND LEDGES. AREA DOMINANTLY GRASSLAND WITH MIXED EVERGREEN WOODLAND IN AREAS, CHAPARRAL OCCURING NEARBY. ASSOCIATED ON THE CLIFFS WITH ERIOPHYLLUM LANATUM AND GRASSES.

Threat: ROAD WIDENING IS POTENTIAL THREAT.

General: 50-100 PLANTS REPORTED IN 1986. RAICHE NOTES THAT A SOLITARY PLANT OBSERVED SEVERAL MILES TO THE EAST ALONG ROCKPILE ROAD IS NOW EXTIRPATED. THIS SITE NOT YET MAPPED BY CNDD (INSUFFICIENT SITE DESCRIPTION).

Owner/Manager: DOD-COE

Monardella villosa ssp. globosa

robust monardella

Element Code: PDLAM180P7

Status _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: None **Global:** G5T2 **CNPS List:** 1B.2
State: None **State:** S2.2

Habitat Associations _____
General: BROADLEAVED UPLAND FOREST, CHAPARRAL, CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: OPENINGS. 30-300M.

Occurrence No. 6 **Map Index:** 32595 **EO Index:** 1075 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 1897-06-XX
Origin: Natural/Native occurrence **Site:** 1897-06-XX
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2007-04-05

Quad Summary: Healdsburg (3812257/518D), Geyserville (3812268/518B), Jintown (3812267/518A), Guerneville (3812258/518C)
County Summary: Sonoma

Lat/Long: 38.61273° / -122.86698° **Township:** 09N
UTM: Zone-10 N4273810 E511580 **Range:** 09W
Radius: 1 mile **Mapping Precision:**NON-SPECIFIC **Section:** 21 **Qtr:** XX
Elevation: 100 ft **Symbol Type:**POINT **Meridian:** M

Location: HEALDSBURG.
General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS AN 1897 COLLECTION BY KING.
Owner/Manager: UNKNOWN

Occurrence No. 11 **Map Index:** 46404 **EO Index:** 46404 **Dates Last Seen** _____
Occ Rank: Unknown **Element:** 2000-06-23
Origin: Natural/Native occurrence **Site:** 2000-06-23
Presence: Presumed Extant
Trend: Unknown **Record Last Updated:** 2001-11-06

Quad Summary: Geyserville (3812268/518B)
County Summary: Sonoma

Lat/Long: 38.67147° / -122.98863° **Township:** 10N
UTM: Zone-10 N4280320 E500988 **Range:** 10W
Area: **Mapping Precision:**NON-SPECIFIC **Section:** 32 **Qtr:** E
Elevation: **Symbol Type:**POLYGON **Meridian:** M

Location: EAST OF PENA CREEK ABOUT 0.1- 1 MILE DOWNSTREAM FROM CONFLUENCE WITH CHAPMAN BRANCH, SOUTHWEST OF GEYSERVILLE.
Location Detail:EASTERN HALF OF SECTION 32.
Ecological: IN SERPENTINE CHAPARRAL. RARE ASSOCIATES INCLUDE ARCTOSTAPHYLOS STANFORDIANA SPP. DECUMBENS, CEANOTHUS CONFUSUS, AND CORDYLANTHUS TENUIS SSP. BRUNNEUS.
Threat: SURROUNDING LAND USE INCLUDES TIMBER HARVEST, RURAL RESIDENTIAL, VINEYARDS, RESERVOIR.
General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2000.
Owner/Manager: PVT

Myotis yumanensis

Yuma myotis

Element Code: AMACC01020

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CDFG Status:
State: None	State: S4?	

Habitat Associations

General: OPTIMAL HABITATS ARE OPEN FORESTS AND WOODLANDS WITH SOURCES OF WATER OVER WHICH TO FEED.
Micro: DISTRIBUTION IS CLOSELY TIED TO BODIES OF WATER. MATERNITY COLONIES IN CAVES, MINES, BUILDINGS OR CREVICES.

Occurrence No. 7	Map Index: 43689	EO Index: 43691	Dates Last Seen
Occ Rank: Excellent			Element: 1999-07-08
Origin: Natural/Native occurrence			Site: 1999-07-08
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-08-31

Quad Summary: Tombs Creek (3812362/519B)
County Summary: Sonoma

Lat/Long: 38.66220° / -123.23451°	Township: 09N
UTM: Zone-10 N4279318 E479596	Range: 12W
Radius: 80 meters	Mapping Precision: SPECIFIC
Elevation: 620 ft	Section: 06 Qtr: NW
	Meridian: M
	Symbol Type: POINT

Location: BRIDGE ON STEWART'S POINT SKAGGS SPRING ROAD AT HOUSE CREEK, 0.3 MILE NORTH OF DOE RIDGE.
Location Detail: MAPPED TO SITE DESCRIPTION GIVEN COORDINATES ARE 0.05 MILE WEST (LAT:38 39' 44"; LONG:123 14' 03").
Ecological: RIPARIAN AT BRIDGE, CHAPARRAL AND NON-NATIVE GRASSLAND, RURAL.
Threat: BRIDGE SEISMIC RETROFIT SCHEDULED FOR DAY WORK ONLY. WORK WILL TEMPORARILY IMPACT MATERNITY DAY ROOST
General: 1999: NUMBER OF M. YUMANENSIS UNKNOWN. ALSO PALLID BAT NIGHT ROOST AND OTHER UNIDENTIFIED BAT SPECIES USING THE BRIDGE.
Owner/Manager: SON COUNTY

Oncorhynchus mykiss irideus

steelhead - central California coast ESU

Element Code: AFCHA0209G

Status
 Federal: Threatened
 State: None

NDDB Element Ranks
 Global: G5T2Q
 State: S2

Other Lists
 CDFG Status:

Habitat Associations

General: FROM RUSSIAN RIVER, SOUTH TO SOQUEL CR & TO, BUT NOT INCLUDING, PAJARO RIVER. ALSO SAN FRANCISCO & SAN PABLO BAY BASINS.
Micro:

Occurrence No. 25

Map Index: 43107

EO Index: 43107

Dates Last Seen

Occ Rank: Excellent
Origin: Natural/Native occurrence
Presence: Presumed Extant
Trend: Unknown

Element: 1998-08-25
Site: 1998-08-25

Record Last Updated: 2000-06-20

Quad Summary: The Geysers (3812277/534D), Asti (3812278/534C)

County Summary: Sonoma

Lat/Long: 38.83911° / -122.84597°
UTM: Zone-10 N4298934 E513367
Area: 309.3 acres
Elevation: 1,500 ft

Mapping Precision: SPECIFIC
Symbol Type: POLYGON

Township: 12N
Range: 09W
Section: 34
Meridian: M
Qtr: XX

Location: SQUAW CREEK, TRIB TO BIG SULFUR CREEK, TRIB TO RUSSIAN RIVER, 4 MILES NW OF "THE GEYSERS" AND GEYSERS RESORT.

Location Detail: SQUAW CREEK SAMPLE STATIONS: 1, 3 (ON ALDER CREEK 0.3 MI UPSTREAM OF SQUAW), 4, 7, & 10. NO SITES 2 & 5; SITES, 6 ON WILDHORSE CREEK & 8 ON COLDWATER CANYON HAVE NO DATA.

Ecological: SITE 1: WIDE CHANNEL, LITTLE-NO SHADING, POOLS & BACKWATERS; SANDY/GRAVEL/BOULDERS; 4, NARROW FLOODPLAIN, COBBLE & BEDROCK, AGGRADATION AREA; 7 & 10, DENSE RIPARIAN, ABUNDANT SHADE, (7 PRIMAILY SANDY, SEVERAL POOLS), (10 COBBLE & GRAVEL).

Threat: NATURAL AND HUMAN CAUSE EROSION/ SEDIMENTATION; WATER WITHDRAWAL. SURROUNDING LAND USE IN GEOTHERMAL ENERGY PRODUCTION.

General: BARRIERS UP & DOWNSTREAM OF SITE 3, DOWNSTREAM WATERFALL CAN BE PASSED DURING HIGH FLOWS. 477 OBSERVED, 207 ADULTS (1+ YEARS), 270 JUVENILES (0-1 YEAR)

Owner/Manager: PVT-CALPINE CORP, SMUD

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 113	Map Index: 32342	EO Index: 2544	Dates Last Seen
Occ Rank: Unknown			Element: 1956-04-XX
Origin: Natural/Native occurrence			Site: 1956-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-07-26

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.91374° / -123.03916°	Township: 12N
UTM: Zone-10 N4307205 E496604	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 750 ft	Section: 01 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: PIETA CREEK; TRIBUTARY TO RUSSIAN RIVER; SOUTHEAST OF HOPLAND.
General: MODERATELY ABUNDANT NUMBERS OF FROGS OBSERVED MARCH-APRIL 1956.
Owner/Manager: UNKNOWN

Occurrence No. 114	Map Index: 32343	EO Index: 2576	Dates Last Seen
Occ Rank: Unknown			Element: 1956-04-XX
Origin: Natural/Native occurrence			Site: 1956-04-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1995-06-27

Quad Summary: Hopland (3812381/535A), Highland Springs (3812288/534B)
County Summary: Mendocino, Lake

Lat/Long: 38.99134° / -122.99060°	Township: 13N
UTM: Zone-10 N4315815 E500814	Range: 10W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 2,400 ft	Section: 08 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: MCDOWELL CREEK; LAKE/MENDOCINO COUNTY LINES; WEST OF BIG VALLEY.
Ecological: RIVER.
General: MODERATELY ABUNDANT NUMBERS OBSERVED.
Owner/Manager: UNKNOWN

Occurrence No. 156	Map Index: 36014	EO Index: 31012	Dates Last Seen
Occ Rank: Fair			Element: 1997-06-09
Origin: Natural/Native occurrence			Site: 1997-06-09
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1997-07-07

Quad Summary: Asti (3812278/534C)
County Summary: Sonoma

Lat/Long: 38.79716° / -122.91352°	Township: 11N
UTM: Zone-10 N4294271 E507509	Range: 09W
Area:	Mapping Precision: NON-SPECIFIC
Elevation: 720 ft	Section: 18 Qtr: XX
	Symbol Type: POLYGON
	Meridian: M

Location: LITTLE SULPHUR CREEK, APPROXIMATELY 1.5 MILES UPSTREAM FROM ITS CONFLUENCE WITH BIG SULPHUR CREEK.
Location Detail: LARVAE ABUNDANT IN THE SHALLOW, QUIET WATER ALONG THE SHORE.
Ecological: HABITAT CONSISTS OF A STREAM WITH A VERY WIDE, SHALLOW CHANNEL; SOME ROCKY COVER ALONG THE SHORE CREATES SMALL POOLS WHERE ADULT FROGS ARE PRESENT (NO OVER-HANGING VEGETATION). SURROUNDING AREA IS OAK WOODLAND. STEELHEAD ABUNDANT IN CREEK.
Threat: THREATENED BY PROPOSED VINEYARD DEVELOPMENT/WATER DIVERSION.
General: 2 ADULT FROGS AND MANY TADPOLES OBSERVED ON 9 JUNE 1997.
Owner/Manager: PVT

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CDFG Status: SC
 State: None State: S2S3

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 157 Map Index: 36015 EO Index: 31013 Dates Last Seen _____
 Occ Rank: Excellent Element: 1997-06-09
 Origin: Natural/Native occurrence Site: 1997-06-09
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-07-07

Quad Summary: Asti (3812278/534C)
 County Summary: Sonoma

Lat/Long: 38.80236° / -122.92234° Township: 11N
 UTM: Zone-10 N4294847 E506743 Range: 10W
 Area: Mapping PrecisionNON-SPECIFIC Section: 13 Qtr: XX
 Elevation: 720 ft Symbol Type:POLYGON Meridian: M

Location: UNNAMED TRIBUTARY TO LITTLE SULPHUR CREEK, NE OF ALEXANDER VALLEY.
 Ecological: HABITAT CONSISTS OF A HIGH-GRADIENT, FIRST AND SECOND ORDER STREAM, DEEPLY INCISED IN PLACES WITH BEDROCK, COBBLE, AND GRAVEL BOTTOM; SURROUNDING VEGETATION IS GRAZED OAK WOODLAND. STEELHEAD ABUNDANT IN LOWER REACH; NONE IN UPPER REACH.
 Threat: THREATENED BY VINEYARD DEVELOPMENT, AS WELL AS A PROPOSED DAM/RESERVOIR/WATER DIVERSION.
 General: 8 ADULT FROGS AND THOUSANDS OF TADPOLES OBSERVED ON 9 JUNE 1997.
 Owner/Manager: PVT

Occurrence No. 158 Map Index: 36016 EO Index: 31014 Dates Last Seen _____
 Occ Rank: Excellent Element: 1997-06-09
 Origin: Natural/Native occurrence Site: 1997-06-09
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1997-07-07

Quad Summary: Asti (3812278/534C)
 County Summary: Sonoma

Lat/Long: 38.77729° / -122.94351° Township: 11N
 UTM: Zone-10 N4292064 E504906 Range: 10W
 Area: Mapping PrecisionNON-SPECIFIC Section: 26 Qtr: XX
 Elevation: 920 ft Symbol Type:POLYGON Meridian: M

Location: CROCKER CREEK, APPROXIMATELY 2.5 MILES UPSTREAM FROM ITS CONFLUENCE WITH RUSSIAN RIVER, NE OF ASTI.
 Ecological: HABITAT CONSISTS OF A VERY HIGH-GRADIENT, CASCADING STREAM WITH A BOULDER/COBBLE BOTTOM; SURROUNDING AREA CONSISTS OF GRAZED OAK/MAPLE/BAY WOODLAND.
 Threat: THREATENED BY PROPOSED VINEYARD DEVELOPMENT AND DAM/RESERVOIR/WATER DIVERSION PROJECT.
 General: 5 ADULT FROGS AND THOUSANDS OF TADPOLES OBSERVED ON 9 JUN 1997.
 Owner/Manager: PVT

Occurrence No. 163 Map Index: 38444 EO Index: 33451 Dates Last Seen _____
 Occ Rank: Fair Element: 1997-07-11
 Origin: Natural/Native occurrence Site: 1997-07-11
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 1998-03-24

Quad Summary: Highland Springs (3812288/534B)
 County Summary: Lake

Lat/Long: 38.93838° / -122.94187° Township: 13N
 UTM: Zone-10 N4309940 E505037 Range: 10W
 Area: 28.5 acres Mapping PrecisionSPECIFIC Section: 35 Qtr: NW
 Elevation: 1,760 ft Symbol Type:POLYGON Meridian: M

Location: HIGHLAND CREEK, ON THE NORTH SIDE OF HIGHLAND SPRINGS ROAD, ABOUT 2 MILES UPSTREAM FROM HIGHLAND RESERVOIR.
 Ecological: HABITAT CONSISTS A PERENNIAL STREAM WITH RIPARIAN DOMINATED BY SALIX LASIANDRA AND ABUNDANT EMERGENT CAREX NUDATA.
 General: 4 ADULTS CAPTURED ON 11 JULY 1997 ALONG THE CREEK BANKS.
 Owner/Manager: BLM-CLEAR LAKE RA

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 174	Map Index: 41689	EO Index: 41689	Dates Last Seen
Occ Rank: Excellent			Element: 1999-05-21
Origin: Natural/Native occurrence			Site: 1999-05-21
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1999-09-27

Quad Summary: Cloverdale (3812371/535D)
County Summary: Mendocino

Lat/Long: 38.86188° / -123.05580°	Township: 12N
UTM: Zone-10 N4301451 E495158	Range: 11W
Radius: 80 meters	Section: 26
Elevation: 500 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: UNNAMED TRIBUTARY ON THE SOUTH SIDE OF EDWARDS CREEK, 1 MILE UPSTREAM FROM THE RUSSIAN RIVER, NNW OF CLOVERDALE.
Location Detail: JUVENILE FROGS OBSERVED IN THE ALLUVIAL FLAT AT THE CONFLUENCE WITH EDWARDS CREEK.
Ecological: HABITAT CONSISTS OF A SEASONAL DRAINAGE TO EDWARDS CREEK THAT FLOWS FROM SOUTH TO NORTH.
Threat: THREATENED BY A PROPOSED VINEYARD EAST OF THE SEASONAL DRAINAGE.
General: MANY JUVENILES WERE OBSERVED ON 21 MAY 1999.
Owner/Manager: PVT

Occurrence No. 262	Map Index: 43064	EO Index: 43064	Dates Last Seen
Occ Rank: Excellent			Element: 1998-08-25
Origin: Natural/Native occurrence			Site: 1998-08-25
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-06-08

Quad Summary: Asti (3812278/534C)
County Summary: Sonoma

Lat/Long: 38.82477° / -122.87735°	Township: 11N
UTM: Zone-10 N4297339 E510646	Range: 09W
Radius: 80 meters	Section: 04
Elevation: 800 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: SQUAW CREEK, AT THE BIG SULPHUR CREEK CONFLUENCE, 8 MILES EAST OF CLOVERDALE
Ecological: HABITAT CONSISTS OF A RELATIVELY WIDE CREEK CHANNEL, WITH LITTLE TO NO RIPARIAN SHADING; POOLS AND BACKWATERS PRESENT. SUBSTRATE SANDY/GRAVEL/BOULDERS. SURROUNDING LAND USE: GEOTHERMAL POWER PRODUCTION. ONCORHYNCHUS MYKISS PRESENT.
Threat: POSSIBLY THREATENED BY BULLFORGS.
General: 20 ADULTS OBSERVED ON 25 AUG 1998.
Owner/Manager: PVT-CALPINE CORP

Occurrence No. 280	Map Index: 43835	EO Index: 43835	Dates Last Seen
Occ Rank: Good			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-09-21

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.87863° / -123.00287°	Township: 12N
UTM: Zone-10 N4303308 E499751	Range: 10W
Radius: 80 meters	Section: 20
Elevation: 2,440 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: SALT SPRINGS CREEK, 6 MILES NNE OF CLOVERDALE.
General: 1 INDIVIDUAL OBSERVED DURING MAY-JUN 1999.
Owner/Manager: PVT

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CDFG Status: SC
 State: None State: S2S3

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 281 Map Index: 43836 EO Index: 43836 Dates Last Seen _____
 Occ Rank: Unknown Element: 1999-XX-XX
 Origin: Natural/Native occurrence Site: 1999-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-21

Quad Summary: Yorkville (3812382/535B)
 County Summary: Mendocino

Lat/Long: 38.88615° / -123.14849° Township: 12N
 UTM: Zone-10 N4304153 E487121 Range: 12W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 13 Qtr: SW
 Elevation: 2,625 ft Symbol Type: POINT Meridian: M

Location: NORTH SIDE OF DRY CREEK AND HIGHWAY 128, 4 MILES ESE OF YORKVILLE.
 Location Detail: LOCATED EAST OF AT&T POLE 5310+00.
 General: 1 INDIVIDUAL OBSERVED DURING MAY-JUN 1999.
 Owner/Manager: UNKNOWN

Occurrence No. 282 Map Index: 43837 EO Index: 43837 Dates Last Seen _____
 Occ Rank: Unknown Element: 1999-XX-XX
 Origin: Natural/Native occurrence Site: 1999-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-21

Quad Summary: Yorkville (3812382/535B)
 County Summary: Mendocino

Lat/Long: 38.89160° / -123.18412° Township: 12N
 UTM: Zone-10 N4304763 E484032 Range: 12W
 Area: 14.4 acres Mapping Precision: SPECIFIC Section: 15 Qtr: N
 Elevation: 2,525 ft Symbol Type: POLYGON Meridian: M

Location: ALONG DRY CREEK AND HIGHWAY 128, 2 MILES ESE OF YORKVILLE
 Location Detail: LOCATED AT AT&T POLE 5401+83 & WEST OF AT&T POLE 5410+00.
 General: 2 INDIVIDUALS OBSERVED DURING MAY-JUN 1999.
 Owner/Manager: UNKNOWN

Occurrence No. 283 Map Index: 43838 EO Index: 43838 Dates Last Seen _____
 Occ Rank: Unknown Element: 1999-XX-XX
 Origin: Natural/Native occurrence Site: 1999-XX-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2000-09-21

Quad Summary: Yorkville (3812382/535B)
 County Summary: Mendocino

Lat/Long: 38.89269° / -123.20530° Township: 12N
 UTM: Zone-10 N4304888 E482195 Range: 12W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 16 Qtr: NW
 Elevation: 2,600 ft Symbol Type: POINT Meridian: M

Location: ALONG DRY CREEK AND HIGHWAY 128, JUST WEST OF THE ELKHORN CREEK CONFLUENCE, 1 MILE ESE OF YORKVILLE.
 Location Detail: 200 FEET EAST OF AT7T POLE 187-005.
 General: 1 INDIVIDUAL OBSERVED DURING MAY-JUN 1999.
 Owner/Manager: PVT

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 290	Map Index: 44336	EO Index: 44336	Dates Last Seen
Occ Rank: Excellent			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-11-16

Quad Summary: Highland Springs (3812288/534B)
County Summary: Mendocino

Lat/Long: 38.90267° / -122.98863°	Township: 12N
UTM: Zone-10 N4305976 E500985	Range: 10W
Radius: 80 meters	Section: 08 Qtr: XX
Elevation: 1,560 ft	Meridian: M

Location: PIETA CREEK, NORTH OF CLOVERDALE PEAK, IN THE MAYACAMAS MOUNTAINS
Ecological: HABITAT CONSISTS OF RIPARIAN.
General: 1 FYLF OF UNKNOWN AGE OBSERVED DURING SURVEYS MADE DURING MAY-JUN 1999.
Owner/Manager: UNKNOWN

Occurrence No. 291	Map Index: 44380	EO Index: 44380	Dates Last Seen
Occ Rank: Fair			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-11-27

Quad Summary: Highland Springs (3812288/534B)
County Summary: Mendocino

Lat/Long: 38.90821° / -122.98656°	Township: 12N
UTM: Zone-10 N4306591 E501165	Range: 10W
Radius: 80 meters	Section: 08 Qtr: NE
Elevation: 2,200 ft	Meridian: M

Location: BETWEEN JAKES CREEK AND PIETA CREEK, NORTH OF CLOVERDALE PEAK, IN THE MAYACAMAS MOUNTAINS
Location Detail: LOCATED APPROXIMATELY 100 FEET EAST OF POLE 4523+65.
General: 1 FYLF OF UNKNOWN AGE OBSERVED DURING SURVEYS MADE DURING MAY-JUN 1999.
Owner/Manager: PVT

Occurrence No. 292	Map Index: 44381	EO Index: 44381	Dates Last Seen
Occ Rank: Good			Element: 1999-XX-XX
Origin: Natural/Native occurrence			Site: 1999-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2000-11-27

Quad Summary: Highland Springs (3812288/534B)
County Summary: Lake

Lat/Long: 38.91800° / -122.90087°	Township: 12N
UTM: Zone-10 N4307681 E508593	Range: 09W
Radius: 80 meters	Section: 06 Qtr: SE
Elevation: 2,000 ft	Meridian: M

Location: 1.4 MILES SOUTH OF HIGHLAND SPRINGS, IN THE MAYACAMAS MOUNTAINS
Location Detail: LOCATED APPROXIMATELY 450 FEET SOUTH OF POLE 4090.
General: 1 FYLF OF UNKNOWN AGE OBSERVED DURING SURVEYS MADE DURING MAY-JUN 1999.
Owner/Manager: PVT

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CDFG Status: SC
 State: None State: S2S3

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 299 Map Index: 45349 EO Index: 45349 Dates Last Seen _____
 Occ Rank: Good Element: 2000-08-04
 Origin: Natural/Native occurrence Site: 2000-08-04
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2001-05-15

Quad Summary: Geyserville (3812268/518B), Jintown (3812267/518A)
 County Summary: Sonoma

Lat/Long: 38.72579° / -122.87429° Township: 10N
 UTM: Zone-10 N4286355 E510927 Range: 09W
 Area: 62.5 acres Mapping Precision: SPECIFIC Section: 08 Qtr: XX
 Elevation: 330 ft Symbol Type: POLYGON Meridian: M

Location: MILLER CREEK AND AN UNNAMED TRIBUTARY TO MILLER CREEK, 1 MILE NORTH OF HIGHWAY 128, EAST OF GEYSERVILLE
 Location Detail: ADULTS, SUBADULTS, AND TADPOLES WERE FOUND IN BOTH STREAMS, BUT WERE MUCH MORE ABUNDANT IN THE SMALLER STREAM (SPRING FED, BETTER SHADE, COOLER WATER, PERENNIAL FLOW).
 Ecological: HABITAT CONSISTS OF A SECOND ORDER STREAM (MILLER CREEK) AND A THIRD ORDER TRIBUTARY STREAM. TRIBUTARY STREAM HAS MORE SHADE AND ALSO CONTAINS JUVENILE STEELHEAD. SITE IS SURROUNDED BY VINEYARDS.
 General: ~15 ADULTS, ~300 SUBADULTS, AND MANY TADPOLES OBSERVED ON 4 AUG 2000.
 Owner/Manager: PVT-HAMBRECHT VINEYARDS

Occurrence No. 342 Map Index: 47967 EO Index: 47967 Dates Last Seen _____
 Occ Rank: Unknown Element: 2002-05-14
 Origin: Natural/Native occurrence Site: 2002-05-14
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-05-21

Quad Summary: Yorkville (3812382/535B)
 County Summary: Mendocino

Lat/Long: 38.99481° / -123.12879° Township: 13N
 UTM: Zone-10 N4316208 E488846 Range: 12W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 12 Qtr: XX
 Elevation: 520 ft Symbol Type: POINT Meridian: M

Location: UNNAMED STREAM, 1.6 MILES NNW OF HOPLAND
 Location Detail: FROGS OBSERVED IN A SMALL, SUNNY POOL AT THE CONFLUENCE OF THE TWO FORKS OF THE CREEK, ABOUT 75 FEET UPSTREAM OF RESERVOIR INLET. DOWNSTREAM, CREEK FLOWS INTO A STRAIGHT DITCH THROUGH A VINEYARD, THEN INTO AN UNNAMED STREAM.
 Ecological: HABITAT CONSISTS OF A SEASONAL STREAM WITH PERENNIAL POOLS, FEEDING INTO A RESERVOIR (BUILT BEFORE 1990); STREAM HAS SMALL PATCHES OPEN TO SUN. OVERSTORY CONSISTS PRIMARILY OF BAY LAUREL. STREAM FLOW ~0.2 CFS.
 Threat: THREATENED BY PRESENCE OF BULLFROGS (2 SUB-ADULTS FOUND ABOUT 50 FEET UPSTREAM AND RESERVOIR LOADED WITH BULLFROGS).
 General: 2 ADULT FYLF (ONE MEASURED - 34MM SVL, THE OTHER SLIGHTLY LARGER) OBSERVED ON 14 MAY 2002.
 Owner/Manager: PVT-SARACINA VINEYARDS

Rana boyllii

foothill yellow-legged frog

Element Code: AAABH01050

Status
 Federal: None
 State: None
 NDDB Element Ranks
 Global: G3
 State: S2S3
 Other Lists
 CDFG Status: SC

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 349 Map Index: 48991 EO Index: 48991 Dates Last Seen
 Occ Rank: Unknown Element: 2002-09-11
 Origin: Natural/Native occurrence Site: 2002-09-11
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-10-10

Quad Summary: Cloverdale (3812371/535D)
 County Summary: Sonoma

Lat/Long: 38.79593° / -123.05424° Township: 11N
 UTM: Zone-10 N4294132 E495290 Range: 11W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 14 Qtr: XX
 Elevation: 800 ft Symbol Type: POINT Meridian: M

Location: SKUNK CREEK, 0.5 MILE NORTH OF RED MOUNTAIN, 2 MILES WEST OF CLOVERDALE
 Location Detail: FROGS FOUND IN A 5' X 5' PLUNGE POOL AT THE CULVERT OUTLET.
 Ecological: HABITAT CONSISTS OF A HEADWATER DRAINAGE RUNNING THROUGH MIXED CONIFEROUS FOREST, DOMINATED BY DOUGLAS FIR AND SOME REDWOODS. LARGE STANDS OF CHAIN FERN (WOODWARDIA FIMBRIATA) FOUND IN SKUNK CREEK.
 Threat: THREATENED BY PROBABILITY OF CULVERT REPLACEMENT.
 General: 5 ADULTS OBSERVED ON 11 SEP 2002.
 Owner/Manager: SON COUNTY, PVT

Occurrence No. 357 Map Index: 49525 EO Index: 49525 Dates Last Seen
 Occ Rank: Good Element: 2002-11-05
 Origin: Natural/Native occurrence Site: 2002-11-05
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2002-12-02

Quad Summary: Cloverdale (3812371/535D)
 County Summary: Sonoma

Lat/Long: 38.79823° / -123.10721° Township: 11N
 UTM: Zone-10 N4294391 E490690 Range: 11W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 17 Qtr: SE
 Elevation: 1,150 ft Symbol Type: POINT Meridian: M

Location: UNNAMED TRIBUTARY TO CHERRY CREEK, 0.5 MILE EAST OF RED MOUNTAIN
 Ecological: HABITAT CONSISTS OF 6 INCH DEEP POOLS IN A STREAM CONTAINING A GRAVEL ROCK BED AND CLEAR, COLD WATER.
 Threat: THREATENED BY PROPOSED ON-STREAM RESERVOIRS UPSTREAM.
 General: 20+ INDIVIDUALS OBSERVED ON 5 NOV 2002.
 Owner/Manager: PVT

Occurrence No. 365 Map Index: 43689 EO Index: 50173 Dates Last Seen
 Occ Rank: Good Element: 2002-08-XX
 Origin: Natural/Native occurrence Site: 2002-08-XX
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2003-02-13

Quad Summary: Tombs Creek (3812362/519B)
 County Summary: Sonoma

Lat/Long: 38.66220° / -123.23451° Township: 09N
 UTM: Zone-10 N4279318 E479596 Range: 12W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 06 Qtr: NW
 Elevation: 620 ft Symbol Type: POINT Meridian: M

Location: HOUSE CREEK, IN THE VICINITY OF THE BRIDGE ON STEWART'S POINT SKAGGS SPRING ROAD, 0.3 MILE NORTH OF DOE RIDGE
 Ecological: HABITAT CONSISTS OF A MID-CHANNEL POOL ON HOUSE CREEK WITHIN WHITE ALDER RIPARIAN FOREST; MIXED CONIFEROUS FOREST NEARBY.
 Threat: THREATENED BY USE OF THE CREEKBED AS A VEHICLE ROADWAY.
 General: 10 JUVENILES OBSERVED DURING A SINGLE DAY IN AUG 2002.
 Owner/Manager: SON COUNTY

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: None Global: G3 CDFG Status: SC
 State: None State: S2S3

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 391 Map Index: 53462 EO Index: 53462 Dates Last Seen _____
 Occ Rank: Excellent Element: 2003-11-17
 Origin: Natural/Native occurrence Site: 2003-11-17
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2003-12-03

Quad Summary: Yorkville (3812382/535B)
 County Summary: Mendocino

Lat/Long: 38.89546° / -123.19687° Township: 12N
 UTM: Zone-10 N4305194 E482927 Range: 12W
 Radius: 1/10 mile Mapping Precision:NON-SPECIFIC Section: 16 Qtr: XX
 Elevation: 840 ft Symbol Type:POINT Meridian: M

Location: DRY CREEK, 0.4 MILE EAST OF THE ELKHORN CREEK CONFLUENCE, 1 MILE EAST OF YORKVILLE
 Location Detail: AVAILABLE HABITAT EXTENDS UPSTREAM AND DOWNSTREAM.
 Ecological: HABITAT CONSISTS OF A CLEAR-WATER STREAM WITH A ROCKY SUBSTRATE/DEEP POOLS; OVERSTORY OF RIPARIAN AND CALIFORNIA BAY/OAK WOODLAND, DOMINATED BY WILLOW, BIG LEAF MAPLE, CALIFORNIA BAY, COAST LIVE OAK, VALLEY OAK, BUCKEYE, AND RED ALDER.
 Threat: THREATENED BY FUTURE BRIDGE CONSTRUCTION.
 General: 3 ADULTS OBSERVED ON 17 NOV 2003.
 Owner/Manager: CALTRANS

Occurrence No. 447 Map Index: 67883 EO Index: 68031 Dates Last Seen _____
 Occ Rank: Good Element: 2006-08-15
 Origin: Natural/Native occurrence Site: 2006-08-15
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2007-01-23

Quad Summary: Geyserville (3812268/518B)
 County Summary: Sonoma

Lat/Long: 38.71247° / -122.89564° Township: 10N
 UTM: Zone-10 N4284875 E509072 Range: 09W
 Radius: 80 meters Mapping Precision:SPECIFIC Section: 18 Qtr: XX
 Elevation: 195 ft Symbol Type:POINT Meridian: M

Location: RUSSIAN RIVER, ON THE SE SIDE OF THE HIGHWAY 128 BRIDGE, JUST NE OF GEYSERVILLE.
 Ecological: HABITAT CONSISTS OF RIVERINE WITH A GRAVEL/COBBLE SUBSTRATE ON THE RIGHT BANK OF THE RIVER. PSEUDACRIS REGILLA, BUFO BOREAS, AND RANA CATESBIANA TADPOLES ALSO PRESENT.
 Threat: BRIDGE CONSTRUCTION/MAINTENANCE, HUMAN RECREATION, ALTERATION OF PLUG CR (LEFT BANK TRIBUTARY) & PRESENCE OF BULLFROGS.
 General: 11 JUVENILE FROGS OBSERVED ON 15 AUG 2006.
 Owner/Manager: UNKNOWN

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status
 Federal: None
 State: None
 NDDB Element Ranks
 Global: G3
 State: S2S3
 Other Lists
 CDFG Status: SC

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.
 Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Occurrence No. 592 Map Index: 74279 EO Index: 75327 Dates Last Seen
 Occ Rank: Excellent Element: 2008-08-06
 Origin: Natural/Native occurrence Site: 2008-08-06
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2009-04-02

Quad Summary: Asti (3812278/534C)
 County Summary: Sonoma

Lat/Long: 38.82348° / -122.88354° Township: 11N
 UTM: Zone-10 N4297195 E510109 Range: 09W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 05 Qtr: SE
 Elevation: 860 ft Symbol Type: POINT Meridian: M

Location: BIG SULPHUR CREEK AT GEYSER RD; ABOUT 0.3 MI WEST OF BIG SULPHUR CREEK AT SQUAW CREEK, ABOUT 7.25 MI EAST OF CLOVERDALE.
 Location Detail: MAPPED TO PROVIDED COORDINATES - LOCATED UNDERNEATH GEYSER ROAD BRIDGE.
 Ecological: PERENNIAL CREEK WITH DEVELOPED RIPARIAN ZONE. COBBLE AND GRAVEL SUBSTRATE. IMMEDIATE/SURROUNDING LAND IS UNDEVELOPED.
 General: 4 ADULTS & 5 TADPOLES OBSERVED ON 6 AUG 2008 DURING AN EVENING SPOTLIGHT SURVEY.
 Owner/Manager: UNKNOWN

Occurrence No. 593 Map Index: 74280 EO Index: 75328 Dates Last Seen
 Occ Rank: Good Element: 2008-04-30
 Origin: Natural/Native occurrence Site: 2008-04-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2009-04-02

Quad Summary: Asti (3812278/534C)
 County Summary: Sonoma

Lat/Long: 38.76484° / -122.96912° Township: 11N
 UTM: Zone-10 N4290681 E502682 Range: 10W
 Radius: 80 meters Mapping Precision: SPECIFIC Section: 34 Qtr: NW
 Elevation: 260 ft Symbol Type: POINT Meridian: M

Location: RUSSIAN RIVER, ASTI; 0.3 MI SOUTH OF RUSSIAN RIVER AT CROCKER CK AND ~1.4 MI ESE OF CLOVERDALE MUNICIPAL AIRPORT.
 Location Detail: MAPPED TO PROVIDED MAP & COORDINATES. LOCATED 100 METERS UPSTREAM FROM SCHOOL ROAD BRIDGE.
 Ecological: RUSSIAN RIVER HABITAT WITH PATCHY MATURE WILLOW RIPARIAN; LARGE BROAD GRAVEL BARS WITH GRAVEL TO LARGE COBBLE SUBSTRATE. IMMEDIATE/SURROUNDING LAND USE: RURAL, VINEYARD.
 General: 4 EGG MASSES FOUND ALONG SHORELINE IN SLOWER MOVING WATER ATTACHED TO COBBLE ON 30 APR 2008. MASSES ONLY A FEW DAYS OLD BUT DIFFICULT TO DETECT DUE TO SEDIMENT COVERING. 1 WESTERN TOAD STRAND ALSO FOUND.
 Owner/Manager: UNKNOWN

Occurrence No. 594 Map Index: 74281 EO Index: 75330 Dates Last Seen
 Occ Rank: Good Element: 2008-04-30
 Origin: Natural/Native occurrence Site: 2008-04-30
 Presence: Presumed Extant
 Trend: Unknown Record Last Updated: 2009-04-02

Quad Summary: Asti (3812278/534C)
 County Summary: Sonoma

Lat/Long: 38.77285° / -122.96423° Township: 11N
 UTM: Zone-10 N4291571 E503107 Range: 10W
 Area: 24.0 acres Mapping Precision: SPECIFIC Section: 27 Qtr: N
 Elevation: 350 ft Symbol Type: POLYGON Meridian: M

Location: CROCKER CREEK, CLOVERDALE; ~0.5 MI NE OF CROCKER CREEK AT RUSSIAN RIVER, ~1.3 MI EAST OF CLOVERDALE MUNICIPAL AIRPORT.
 Location Detail: MAPPED TO PROVIDED MAP & COORDINATES ALONG CROCKER CREEK. MASSES FOUND IN SLOWER MOVING RIFFLES & POOLS ATTACHED TO COBBLE & BOULDERS. CURRENT/SURROUNDING LAND USE: RURAL, CAMPGROUND. VISIBLE DISTURBANCES: EROSION DUE TO HISTORIC DAM.
 Ecological: MODERATE GRADIENT CREEK WITH STEP POOLS & RIFFLES; PATCHY WILLOW & ALDER RIPARIAN; GRAVEL TO COBBLE SUBSTRATE. SITE IS OLD FOOTPRINT OF RESERVOIR; DAM REMOVED & AREA RESTORED BY SONOMA COUNTY WATER AGENCY IN 2002. STEELHEAD ALSO OBSERVED.
 General: 10 EGG MASSES FOUND (1 HATCHING MASS) & 11 ADULTS ON 8 APR 2008; 35 EGG MASSES (6 OLDER & 29 DEPOSITED WITHIN 1 WEEK) FOUND ON 30 APR 2008. THIS SITE, PREVIOUSLY A RESERVOIR FOR NEARLY A CENTURY, HAS BEEN COLONIZED QUICKLY BY FROGS.

Rana boylei

foothill yellow-legged frog

Element Code: AAABH01050

Status

NDDB Element Ranks

Other Lists

Federal: None

Global: G3

CDFG Status: SC

State: None

State: S2S3

Habitat Associations

General: PARTLY-SHADED, SHALLOW STREAMS & RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS.

Micro: NEED AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING. NEED AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.

Owner/Manager: UNKNOWN

Occurrence No. 783

Map Index: 75061

EO Index: 76058

Dates Last Seen

Occ Rank: Unknown

Element: 1974-03-11

Origin: Natural/Native occurrence

Site: 1974-03-11

Presence: Presumed Extant

Record Last Updated: 2009-06-19

Trend: Unknown

Quad Summary: Warm Springs Dam (3812361/519A)

County Summary: Sonoma

Lat/Long: 38.69345° / -123.02673°

Township: 10N

UTM: Zone-10 N4282759 E497674

Range: 11W

Radius: 1/10 mile

Mapping PrecisionNON-SPECIFIC

Section: 24

Qtr: SE

Elevation: 590 ft

Symbol Type:POINT

Meridian: M

Location: IN VICINITY OF SKAGGS SPRINGS & LAKE SONOMA; ABOUT 2 MI SW OF SKAGGS SPRINGS RD & DRY CREEK RD JCT, LAKE SONOMA RA.

Location Detail: MVZ STATED LOCALITIES: "SKAGGS SPRINGS, SKAGGS SPRINGS RD, 3.0 MI W JCT DRY CREEK RD; SONOMA COUNTY." & "SKAGGS SPRINGS; SONOMA COUNTY."

Ecological: SKAGGS SPRINGS AND SKAGG SPRINGS RD ARE NOW UNDER LAKE SONOMA.

General: 1 COLLECTED 23 JAN 1970 (MVZ 125366). 1 COLLECTED ON 20 FEB 1971 (MVZ 99445). 2 COLLECTED ON 11 MAR 1974 (MVZ 148942, 148943).

Owner/Manager: USACE-LAKE SONOMA RA

Streptanthus morrisonii

Morrison's jewel-flower

Element Code: PDBRA2G0S0

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G2	CNPS List:
State: None	State: S2	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, CLOSED-CONE CONIFEROUS FOREST.

Micro: THE COMPLEX HAS BEEN MAPPED AS THE SPECIES, THOUGH AT LEAST 4 SSP. HAVE BEEN RECOGNIZED. ON SERPENTINE. 210-910M.

Occurrence No. 24	Map Index: 34511	EO Index: 290	Dates Last Seen
Occ Rank: Excellent			Element: 1987-XX-XX
Origin: Natural/Native occurrence			Site: 1987-XX-XX
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-04-02

Quad Summary: Tombs Creek (3812362/519B), Warm Springs Dam (3812361/519A), Fort Ross (3812352/519C), Cazadero (3812351/519D)

County Summary: Sonoma

Lat/Long: 38.62121° / -123.11986°	Township: 09N
UTM: Zone-10 N4274750 E489566	Range: 11W
Area: 1,334.1 acres	Section: 20
Elevation: 1,200 ft	Meridian: M
	Qtr: XX
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: THE CEDARS.

Location Detail: LARGE POPULATION MAPPED WITHIN PORTIONS OF T09N R11W SECTIONS 17, 18, 19, 20, 29, 30 AND T09N R12W SECTIONS 13 AND 24.

Ecological: VIRTUALLY ANY OPEN SERPENTINE ROCK OUTCROP, LEDGE, SLOPE, TALUS, OR BARREN WITHIN THE BOUNDED AREA. ASSOCIATED WITH ERIOGONUM TERNATUM, E. VIMINEUM, ALLIUM FALCIFOLIUM, STREPTANTHUS BARBINGER, S. GLANDULOSUS, ANTIRRHINUM, ETC.

General: THOUSANDS OF PLANTS OBSERVED IN 1982-1987 BY RAICHE. THIS SITE INCLUDES THE TYPE LOCATION OF STREPTANTHUS MORRISONII SSP. MORRISONII AT LAYTON MINE.

Owner/Manager: BLM, PVT

Occurrence No. 25	Map Index: 34512	EO Index: 285	Dates Last Seen
Occ Rank: Excellent			Element: 1988-05-02
Origin: Natural/Native occurrence			Site: 1988-05-02
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-04-02

Quad Summary: Tombs Creek (3812362/519B)

County Summary: Sonoma

Lat/Long: 38.63704° / -123.13111°	Township: 09N
UTM: Zone-10 N4276508 E488589	Range: 12W
Area: 9.2 acres	Section: 12
Elevation: 2,050 ft	Meridian: M
	Qtr: NE
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: NORTHWEST PORTION OF THE CEDARS, ABOUT 1.2 MILES ESE OF THE SUMMIT OF FERN MOUNTAIN.

Location Detail: THREE COLONIES ALONG RIDGE BETWEEN HEADWATERS OF DANFIELD CREEK DRAINAGE AND AUSTIN CREEK DRAINAGE. MAPPED WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 12.

Ecological: OPEN, USUALLY NE-FACING SERPENTINE BARRENS, TALUS, AND LEDGES WITHIN CHAPARRAL. ASSOCIATED WITH ERIOGONUM TERNATUM, E. VIMINEUM, ALLIUM FALCIFOLIUM, STREPTANTHUS BARBINGER, ERYSIMUM CAPITATUM, AND ANTIRRHINUM VEXILLO-CALYCVLATUM.

General: ABOUT 200 PLANTS OBSERVED BETWEEN OCCURRENCE #25 AND 26 IN 1988. THIS POPULATION IS NOTED BY RAICHE AS BEING QUITE DIFFERENT FROM STREPTANTHUS MORRISONII SSP. HIRTIFLOUS AND SSP. MORRISONII WHICH OCCUR NEARBY.

Owner/Manager: UNKNOWN

Occurrence No. 26	Map Index: 34513	EO Index: 286	Dates Last Seen
Occ Rank: Excellent			Element: 1988-05-02
Origin: Natural/Native occurrence			Site: 1988-05-02
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 1996-04-02

Quad Summary: Tombs Creek (3812362/519B)

County Summary: Sonoma

Lat/Long: 38.63510° / -123.14104°	Township: 09N
UTM: Zone-10 N4276294 E487724	Range: 12W
Area: 14.7 acres	Section: 12
Elevation: 1,600 ft	Meridian: M
	Qtr: W
Mapping Precision: SPECIFIC	
Symbol Type: POLYGON	

Location: NORTHWEST PORTION OF THE CEDARS, ABOUT 0.7 MILES SOUTHEAST OF THE SUMMIT OF FERN MOUNTAIN. IN DANFIELD CREEK DRAINAGE.

Ecological: OPEN, USUALLY NE-FACING SERPENTINE BARRENS, TALUS, AND LEDGES WITHIN CHAPARRAL. ASSOCIATED WITH ERIOGONUM TERNATUM, E. VIMINEUM, ALLIUM FALCIFOLIUM, STREPTANTHUS BARBINGER, ERYSIMUM CAPITATUM, AND ANTIRRHINUM VEXILLO-CALYCVLATUM.

General: ABOUT 200 PLANTS OBSERVED BETWEEN OCCURRENCES #25 AND 26 IN 1988. THIS POPULATION IS NOTED BY RAICHE AS BEING QUITE DIFFERENT FROM STREPTANTHUS MORRISONII SSP. HIRTIFLORUS AND SSP. MORRISONII WHICH OCCUR NEARBY.

Owner/Manager: UNKNOWN

Tracyina rostrata

beaked tracyina

Element Code: PDAST9D010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1G2	CNPS List: 1B.2
State: None	State: S1S2.2	

Habitat Associations

General: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: OPEN GRASSY MEADOWS WITHIN OAK WOODLAND AND GRASSLAND HABITATS. 150-500M.

Occurrence No. 7	Map Index: 07635	EO Index: 16846	Dates Last Seen
Occ Rank: Poor			Element: 1998-06-22
Origin: Natural/Native occurrence			Site: 1998-06-22
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-05-02

Quad Summary: Big Foot Mtn. (3812372/535C)
County Summary: Sonoma

Lat/Long: 38.79701° / -123.16484°	Township: 11N
UTM: Zone-10 N4294263 E485685	Range: 12W
Radius: 80 meters	Section: 14
Elevation: 600 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SW
Symbol Type: POINT	

Location: CONFLUENCE OF GALLOWAY AND DRY CREEKS, 1.1 AIRMILES NE OF WHITE MOUNTAIN SUMMIT, APPROX 8 AIRMILES WEST OF CLOVERDALE.
Location Detail: ON GRASSY SLOPE ABOVE CONFLUENCE OF CREEKS. PLANTS FOUND ON CENTRAL SLOPE TO THE NORTH OF INTERMITTENT TRIBUTARY THAT FLOWS INTO GALLOWAY CREEK AND NW OF TRIBUTARY ON SHORT GRASSLAND. MAPPED WITHIN THE SE 1/4 SW 1/4 OF SECTION 14.
Ecological: SE SLOPE IN MIXED NATIVE AND INTRODUCED GRASSLAND. ASSOCIATES INCLUDE BRIZA MINOR, AIRA CARYOPHYLLEA, CYNOSURUS ECHINATUS, LOLIUM MULTIFLORUM, MADIA EXIGUA, ANAGALIS ARVENSIS, DAUCUS PUSILLUS, FILAGO GALLICA, MICROPUS CALIFORNICUS, ET AL.
Threat: GRAZING; MANY SHEEP OR DEER TRAILS ON LOWER HILLSIDE. NON-NATIVE GRASSES AND FORBES ARE OUT-COMPETING THE NATIVES.
General: ABOUT 20 PLANTS OBSERVED IN 1998.
Owner/Manager: UNKNOWN

Occurrence No. 13	Map Index: 45300	EO Index: 45300	Dates Last Seen
Occ Rank: Poor			Element: 1998-06-05
Origin: Natural/Native occurrence			Site: 1998-06-05
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2001-05-02

Quad Summary: Hopland (3812381/535A)
County Summary: Mendocino

Lat/Long: 38.99486° / -123.06783°	Township: 13N
UTM: Zone-10 N4316208 E494125	Range: 11W
Area: 4.8 acres	Section: 09
Elevation: 950 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: SE
Symbol Type: POLYGON	

Location: LITTLE BUCKS PASTURE, HOPLAND RESEARCH AND EXTENSION CENTER, ABOUT 2 AIRMILES NORTHEAST OF OLD HOPLAND.
Location Detail: BETWEEN AIRSTRIP AND UNIVERSITY ROAD. MAPPED WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 9.
Ecological: GENTLY SLOPED NE FACING ANNUAL GRASSLAND WITH A FEW SCATTERED BLUE OAKS AND MADRONE. DOMINATED BY AEGILOPS TRIUNCIALIS, TAENIATHERUM CAPUT-MEDUSAE, AND LOLIUM MULTIFLORUM WITH OVER 70 OTHER SPECIES OF GRASSES AND FORBS.
Threat: INVASIVE GRASSES OUT-COMPETING NATIVES, HALF OF PASTURE RECENTLY BURNED FOR CONTROL. GRAZED BY SHEEP PERIODICALLY.
General: ABOUT 50 PLANTS OBSERVED IN 1997, IN UNBURNED SIDE OF PASTURE. 96 PLANTS OBSERVED IN 1998. PLANTS ARE PERSISTING IN SPITE OF GRAZING PRESSURE AND ESTABLISHMENT OF EXOTIC GRASSES.
Owner/Manager: UCNR

Tracyina rostrata

beaked tracyina

Element Code: PDAST9D010

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G1G2	CNPS List: 1B.2
State: None	State: S1S2.2	

Habitat Associations

General: CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.
Micro: OPEN GRASSY MEADOWS WITHIN OAK WOODLAND AND GRASSLAND HABITATS. 150-500M.

Occurrence No. 15	Map Index: 61444	EO Index: 61480	Dates Last Seen
Occ Rank: Good			Element: 2003-06-03
Origin: Natural/Native occurrence			Site: 2003-06-03
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2005-05-27

Quad Summary: Hopland (3812381/535A)

County Summary: Mendocino

Lat/Long: 38.98810° / -123.07807°	Township: 13N
UTM: Zone-10 N4315458 E493238	Range: 11W
Radius: 80 meters	Section: 16
Elevation: 990 ft	Meridian: M
Mapping Precision: SPECIFIC	Qtr: NW
Symbol Type: POINT	

Location: ABOUT 1.5 AIRMI ENE OF OLD HOPLAND AND 0.9 AIRMI SOUTH OF UC HOPLAND FIELD STATION.
Location Detail: MAPPED JUST SOUTH OF ROAD IN THE SE 1/4 OF THE NW 1/4 OF SECTION 16.
Ecological: GENTLY-SLOPED NORTH-FACING GRASSLAND DOMINATED BY EXOTIC ANNUAL GRASSES. SOILS THIN OF FINELY FRACTURED SANDSTONE. ASSOCIATED WITH CYNOSURUS ECHINATUS, HYPOCHAERIS GLBRA, MADIA GRACILIS, AND ACHYRACHAENA MOLLIS.
Threat: INVASIVE ANNUAL GRASSES.
General: 250 PLANTS SEEN IN 2003.
Owner/Manager: UC-HOPLAND FIELD STATION

Usnea longissima

long-beard lichen

Element Code: NLEEC5P420

Status

NDDB Element Ranks

Other Lists

Federal: None
 State: None

Global: G4
 State: S4.2

CNPS List:

Habitat Associations

General: NORTH COAST CONIFEROUS FOREST, BROADLEAFED UPLAND FOREST.

Micro: GROWS IN THE "REDWOOD ZONE" ON A VARIETY OF TREES INCL BIG LEAF MAPLE, OAKS, ASH, DOUG-FIR, AND BAY. 0-2000' IN CALIF.

Occurrence No. 10

Map Index: 45328

EO Index: 45328

Dates Last Seen

Occ Rank: Unknown
 Origin: Natural/Native occurrence
 Presence: Presumed Extant
 Trend: Unknown

Element: XXXX-XX-XX
 Site: XXXX-XX-XX

Record Last Updated: 2001-05-14

Quad Summary: Yorkville (3812382/535B)

County Summary: Mendocino

Lat/Long: 38.89896° / -123.21805°

UTM: Zone-10 N4305587 E481092

Radius: 1 mile

Elevation: 960 ft

Township: 12N

Range: 12W

Section: 08

Meridian: M

Qtr: XX

Mapping Precision: NON-SPECIFIC

Symbol Type: POINT

Location: YORKVILLE, GALBRAITH PRESERVE.

Location Detail: MAPPED AS BEST GUESS TO INCLUDE YORKVILLE BY CNDDB.

General: NEEDS FIELDWORK; COULD NOT LOCATE GALBRAITH PRESERVE. OBSERVED BY DOUG GLAVICH, HSU.

Owner/Manager: UNKNOWN

Viburnum ellipticum

oval-leaved viburnum

Element Code: PDCPR07080

Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G5	CNPS List: 2.3
State: None	State: S2.3	

Habitat Associations

General: CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.
Micro: 215-1400M.

Occurrence No. 10	Map Index: 49962	EO Index: 49962	Dates Last Seen
Occ Rank: Unknown			Element: 1953-05-27
Origin: Natural/Native occurrence			Site: 1953-05-27
Presence: Presumed Extant			
Trend: Unknown			Record Last Updated: 2008-12-31

Quad Summary: Hopland (3812381/535A), Purdys Gardens (3912311/550D)
County Summary: Mendocino

Lat/Long: 38.99656° / -123.09805°	Township: 13N
UTM: Zone-10 N4316399 E491509	Range: 11W
Area:	Mapping Precision: NON-SPECIFIC
Elevation:	Symbol Type: POLYGON
	Section: 08 Qtr: SW
	Meridian: M

Location: HOPLAND FIELD STATION.
Location Detail: MAPPED BY CNDDDB IN THE SW 1/4 OF SEC 8 ACCORDING TO A COMMUNICATION WITH HEISE IN 1999.
Ecological: SHADY CANYON, NORTH EXPOSURE.
General: A COUPLE OF PLANTS SEEN AT AN UNKNOWN DATE. A 1953 LONGHURST COLLECTION FROM "HOPLAND FIELD STATION, FOSTER PASTURE W OF HEADQUARTERS" ALSO ATTRIBUTED TO THIS SITE. NEEDS FIELDWORK.
Owner/Manager: UC-HOPLAND FIELD STATION



United States Department of the Interior
FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825



September 22, 2009

Document Number: 090922110714

Jamie Galos
ESA
2600 Capitol Avenue
S. 200
Sacramento, CA 95816

Subject: Species List for Cloverdale Rancheria of Pomo Indians Fee to Trust and Resort Casino Project

Dear: Mr. Galos

We are sending this official species list in response to your September 22, 2009 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be December 21, 2009.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at www.fws.gov/sacramento/es/branches.htm.

Endangered Species Division



U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office

**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 090922110714

Database Last Updated: January 29, 2009

Quad Lists

Listed Species

Invertebrates

Syncaris pacifica

California freshwater shrimp (E)

Fish

Eucyclogobius newberryi

tidewater goby (E)

Hypomesus transpacificus

delta smelt (T)

Oncorhynchus kisutch

coho salmon - central CA coast (E) (NMFS)

Critical habitat, coho salmon - central CA coast (X) (NMFS)

Oncorhynchus mykiss

Central California Coastal steelhead (T) (NMFS)

Central Valley steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Critical habitat, Northern California steelhead (X) (NMFS)

Northern California steelhead (T) (NMFS)

Oncorhynchus tshawytscha

California coastal chinook salmon (T) (NMFS)

Critical habitat, California coastal chinook salmon (X) (NMFS)

Amphibians

Rana aurora draytonii

California red-legged frog (T)

Birds

Brachyramphus marmoratus

marbled murrelet (T)

Strix occidentalis caurina

northern spotted owl (T)

Quads Containing Listed, Proposed or Candidate Species:

HIGHLAND SPRINGS (534B)

ASTI (534C)

HOPLAND (535A)

Yorkville (535B)

BIG FOOT MTN. (535C)

CLOVERDALE (535D)

County Lists

No county species lists requested.

Key:

- (E) *Endangered* - Listed as being in danger of extinction.
- (T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
- (P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.
- Critical Habitat* - Area essential to the conservation of a species.
- (PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
- (C) *Candidate* - Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or

injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you

will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be December 21, 2009.