4.2 Vulnerability Assessment

As the second part of the Risk Assessment process, the HMPC conducted a Vulnerability Assessment to describe the impact that each hazard identified in the preceding section would have upon the Placer County Planning Area. This Vulnerability Assessment includes an identification of assets at risk and an estimate of associated losses.

Within the Placer County Planning Area, in addition to the county, there are five jurisdictions and numerous districts participating on the HMPC and providing valuable data and insight into this plan. Much of the land is also owned by various Federal Agencies. While different in their jurisdictional boundaries, as well as in their form and function, they all provide a role with respect to not only monitoring and responding to external events, but also in preparing for disaster and undertaking mitigation initiatives.

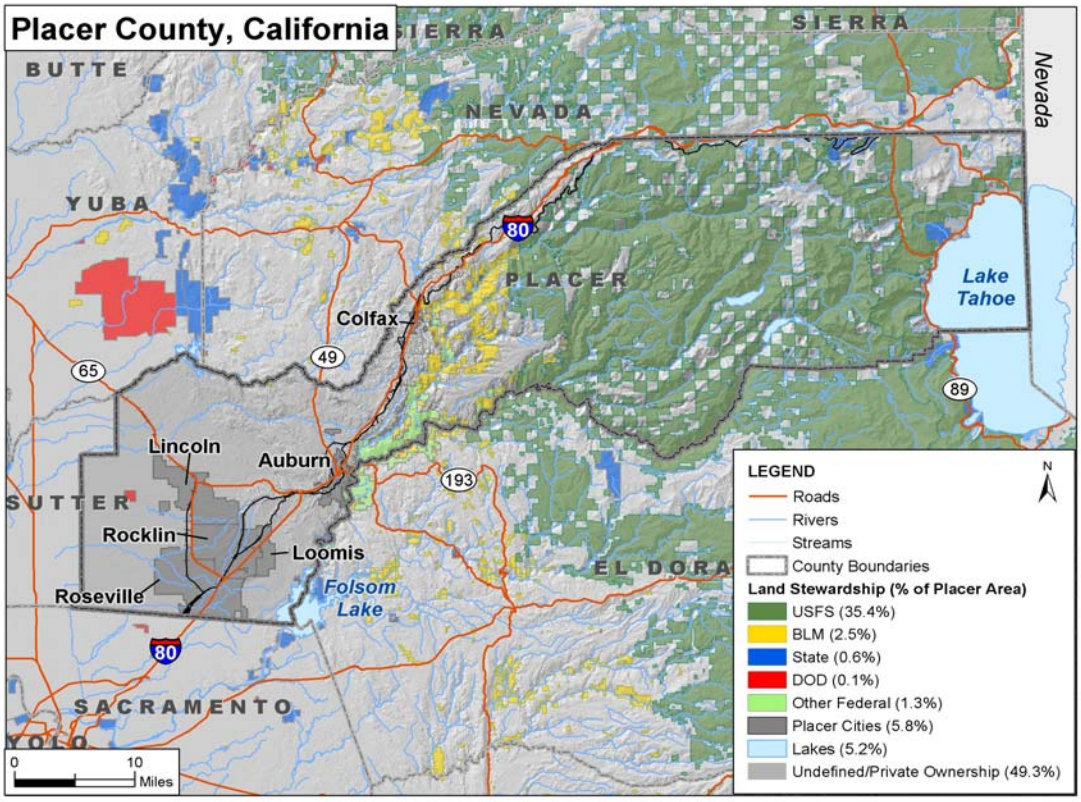
It is important to recognize the unique fabric of the Placer County community. It is the "patchwork quilt" of partnerships often referred to as the over-riding hazard mitigation strategy. Any effective mitigation strategy must encompass the participation of the communities forming the partnership. A prime example of the critical nature of this partnership and patchwork quilt is the roles of each community and district in Flood Protection. The following table and map details the land ownership of the community partnership.

PLACER COUNTY LAND IN CITIES, TOWNS, AND UNINCORPORATED AREA

Jurisdiction	Population	Square Miles
City of Auburn	12,462	7.5
City of Colfax	1,496	1.3
City of Lincoln	11,205	18.3
Town of Loomis	6,260	7.3
City of Rocklin	36,330	21
City of Roseville	79.921	31
Unincorporated Area	100,725	1414.7
Totals	**248,399**	**1,501.1**

(Source: U.S. Census Bureau, 2000)

LAND OWNERSHIP MAP



(Source: AMEC Earth & Environmental)

TOTAL VULNERABILITY AND VALUES AT RISK

As a starting point for analyzing the Planning Area's vulnerability to identified hazards, the HMPC utilized a variety of data to define a baseline against which all disaster impacts could be compared. If a catastrophic disaster were to occur in the Planning Area, the following information describes significant assets at risk in the County. Data used in this baseline assessment included:

- Assessor Data – value of County's building infrastructure inventory
- Critical Facility Inventory
- Cultural and Natural Resource Inventory
- Development Trends

Assessor Data

The following data obtained by the Placer County Assessor's office is based on the Certified Roll Values for 2004 (for Secured Property). The data should be used as a guideline to overall values in the County, as the information has some limitations. The most significant limitation is created by proposition 13. Instead of adjusting property values annually, the values are not adjusted or assessed until a property transfer occurs. As a result, overall value information is likely low and does not reflect current market value of properties within the County. Another data issue is that information by property type includes the value associated with vacant lands. In the event of a disaster, it is generally the value of the infrastructure or improvements to the land that is of concern or at risk. Generally, the land itself is not a loss. However, the values associated with vacant land is generally no greater than two to three percent of the property type category and often less than one percent of the total values. The total 2004 Certified Roll Values for Placer County are provided in the following tables.

CITY OF AUBURN
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	4,944	961,861,685
Commercial	481	167,050,896
Industrial	34	10,419,736
Agricultural	31	765,138
Total Value	**5,494**	**1,142,840,470**

CITY OF COLFAX
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	701	90,073,829
Commercial	119	24,574,567
Industrial	26	16,714,795
Agricultural	4	0
Total Value	**850**	**131,363,191**

CITY OF LINCOLN
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	12,399	2,732,063,066
Commercial	228	116,791,234
Industrial	111	135,273,364
Agricultural	22	1,050,703
Total Value	**12,762**	**2,985,366,902**

TOWN OF LOOMIS
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	2,455	429,682,878
Commercial	177	55,663,456
Industrial	114	39,179,914
Agricultural	38	2,749,550
Total Value	**2784**	**527,275,798**

CITY OF ROCKLIN
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	15,817	4,126,607,948
Commercial	544	578,156,919
Industrial	168	271,511,507
Agricultural	52	1,998,662
Total Value	**16,581**	**4,978,275,036**

UNINCORPORATED PLACER COUNTY
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	63,123	14,413,059,662
Commercial	2,274	1,173,408,885
Industrial	501	359,703,076
Agricultural	2,208	338,334,684
Total Value	**68,106**	**16,284,506,307**

Critical Facility Inventory

Of significant concern with respect to any disaster event is the location of critical facilities within the county. Volume II of the Background Report to the Placer County General Plan, 1994 defines critical facilities as: "Those services and facilities necessary during a major emergency." This definition was refined by separating out three categories of critical facilities.

Class 1 facilities include those facilities that contribute to command, control, communications and computer capabilities associated with managing an incident from initial response through recovery. Class 1 facilities include:

- Primary and alternate EOCs
- All Dispatch Centers
    - Sheriff Auburn
    - Sheriff Tahoe

    - CHP Sacramento
    - CHP Truckee
    - CDF Grass Valley
    - Roseville City
    - Rocklin City
    - Lincoln City
    - Auburn City
- Emergency Services Communication Infrastructure
- Primary and Alternate Computer Information Systems Infrastructure
- Sutter Roseville Hospital Control Facility
- Major transportation corridors

Class 2 facilities include those facilities that house Emergency Services capabilities. Class 2 facilities include:

- All Police Stations
    - Roseville
    - Rocklin
    - Lincoln
    - Auburn
- All CHP Stations
    - Newcastle
    - Dutch Flat
    - Truckee
- All Fire Stations
- All Hospitals
    - Sutter Auburn Faith
    - Kaiser Roseville
    - Sutter Roseville
    - Tahoe Truckee
- All National Guard Armories
- Coast Guard Facilities in Tahoe
- Airports
    - Lincoln
    - Auburn
    - Blue Canyon
    - Truckee

Class 3 facilities would be those facilities that enable key utilities and can be used as evacuation centers/shelters/mass prophylaxis sites etc. Class 3 facilities include:

- All schools
- Water treatment plants
- Power generation infrastructure
- Fuel pipelines

- Fiber-optic lines
- Sewage infrastructure
- Fair Grounds in Auburn and in Roseville
- Memorial Halls
- Park Facilities

Cultural and Natural Resource Inventory

In evaluating the vulnerability of a given area to disaster, it is important to inventory the cultural and natural resources specific to that area. Cultural and Natural Resources are important to identify pre-disaster for four reasons:

- First, the community may decide that these sites are worthy of a greater degree of protection than currently exists, due to their unique and irreplaceable nature;

- Second, should these resources be impacted by a disaster, knowing so ahead of time allows for more prudent care in the immediate aftermath, when the potential for additional impacts are higher;

- Third, the rules for repair, reconstruction, restoration, rehabilitation and/or replacement usually differ from the norm; and

- Fourth, Natural Resources, such as wetlands and riparian habitat, can have beneficial functions that contribute to the reduction of flood levels and damage.

Cultural Resources

To inventory the County's cultural resources, the HMPC collected information from the state and federal Historic Preservation District Registers. The National Register Information System includes the following sites:

Resource Name	Address	City	Listed	Multiple
Colfax Freight Depot	7 Main St.	Colfax	1999-12-17	
Colfax Passenger Depot	Main St. and Railroad Ave.	Colfax	1999-01-15	
Dutch Flat Historic District	Main and Stockton Sts.	Dutch Flat	1973-03-28	
Griffith House	7325 English Colony Way	Penryn	1978-12-19	
Griffith Quarry	Taylor Rd.	Penryn	1977-10-20	
Haman House	424 Oak St.	Roseville	1976-11-17	
Lake Tahoe Dam	SR 89 at Truckee River	Tahoe City	1981-03-25	Newlands Reclamation TR
Lincoln Public Library	590 Fifth Street	Lincoln	1990-12-10	California Carnegie Libraries MPS

Resource Name	Address	City	Listed	Multiple
Michigan Bluff--Last Chance Trail	From Michigan Bluff NE to Last Chance	Michigan Bluff	1992-06-26	
Newcastle Portuguese Hall	Taylor Road	Newcastle	1982-03-25	
Old Auburn Historic District	Roughly bounded by Maple, Commercial, Court, Washington, Spring, and Sacramento Sts.	Auburn	1970-12-29	
Outlet Gates and Gatekeeper's Cabin	U.S. 89 at mouth of Truckee River	Tahoe City	1972-12-13	
Stevens Trail	Roughly bounded Iowa Hill, canyon of North fork Of American R., until at Secret Ravine, top of ridge of Colfax	Colfax	2002-11-20	
Strap Ravine Nisenan Maidu Indian Site	Address Restricted	Roseville	1973-01-08	
Summit Soda Springs	SE of Soda Springs	Soda Springs	1978-12-15	
Watson Log Cabin	560 N. Lake Blvd	Tahoe City	1979-08-24	
Woman's Club of Lincoln	499 E St.	Lincoln	2001-05-30	

The California State Historical Landmarks in Placer County include the following:

- **NO. 397 TOWN OF DUTCH FLAT (Location**: NE corner of Main and Stockton Sts, Dutch Flat)
- **NO. 398 YANKEE JIM'S (Location**: SE corner of Colfax Foresthill and Springs Garden Rds, 3.0 mi NE of Forest Hill)
- **NO. 399 TOWN OF FOREST HILL (Location**: 24540 Main St, Forest Hill)
- **NO. 400 VIRGINIATOWN (Location**: 4725 Virginiatown Rd, 0.2 mi SE of Fowler and Virginiatown Rds, 7 mi NW of Newcastle)
- **NO. 401 IOWA HILL (Location**: 0.1 mi SW of post office on Iowa Hill Rd, Iowa Hill
- **NO. 402 TOWN OF MICHIGAN BLUFF (Location**: Intersection of Gorman Ranch and Auburn -Foresthill Rds, Michigan Bluff)
- **NO. 403 EMIGRANT GAP (Location**: Emigrant Gap Vista Pt, Interstate 80 (P.M. 55.5 Westbound), Emigrant Gap)
- **NO. 404 CITY OF AUBURN (Location**: SW corner of Maple St and Lincoln Way, Auburn)
- **NO. 405 TOWN OF GOLD RUN (Location**: NW corner of I-80 and Magra Rd, plaque across the street from post office, Gold Run)

- **NO. 463 OPHIR (**Location: SW corner of Lozanos and Bald Hill Rds, 3 mi W of Auburn)

- **NO. 585 PIONEER EXPRESS TRAIL (Location**: Folsom Lake State Recreation Area, Beals Point unit, 0.3 mi N on levee, plaque on riding trail, Folsom)

- **NO. 724 PIONEER SKI AREA OF AMERICA, SQUAW VALLEY (Location**: Adjacent to Lobby Entrance of Cable Car Building at base of mountain, Squaw Valley)

- **NO. 780-1 FIRST TRANSCONTINENTAL RAILROAD-ROSEVILLE (Location**: Old Town Roseville, S.E. corner of Church St & Washington Blvd, Roseville)

- **NO. 780-2 FIRST TRANSCONTINENTAL RAILROAD-ROCKLIN (Location**: SE corner of Rocklin Rd and First St, Rocklin)

- **NO. 780-3 FIRST TRANSCONTINENTAL RAILROAD-NEWCASTLE (Location**: SW corner of Main and Page Sts, Newcastle)

- **NO. 780-4 FIRST TRANSCONTINENTAL RAILROAD-AUBURN (Location**: 639 Lincoln Way, Auburn)

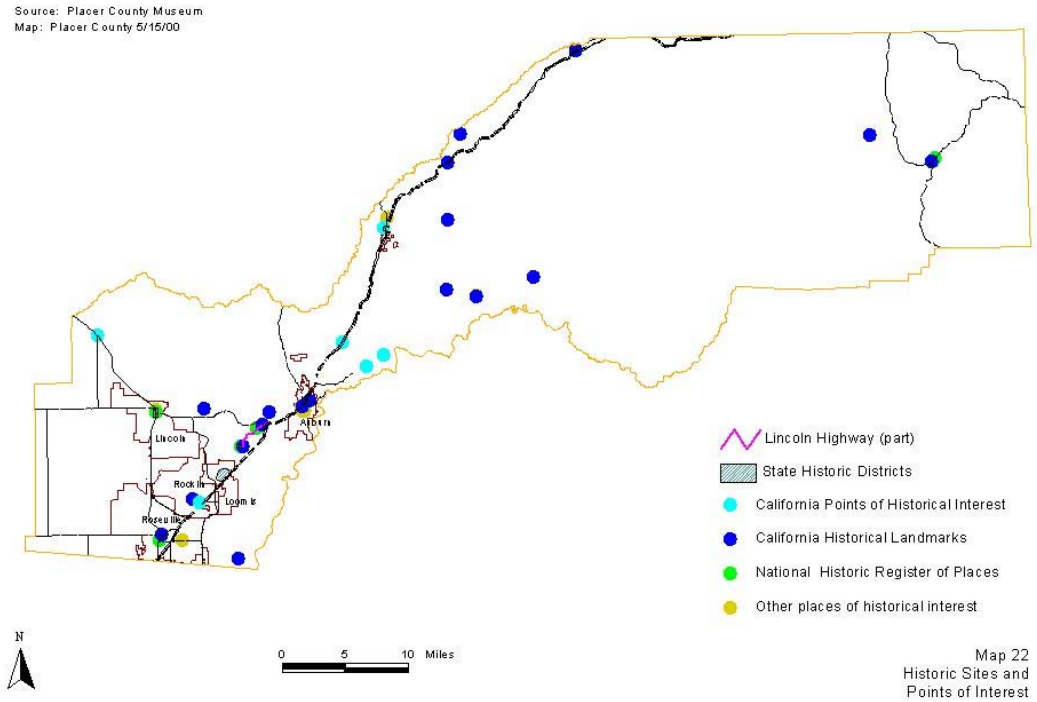
- **NO. 780-5 FIRST TRANSCONTINENTAL RAILROAD-COLFAX (Location**: Grass Valley Street and Railroad Tracks in Railroad Park, Colfax)

- **NO. 797 LAKE TAHOE OUTLET GATES (Location**: 73 N Lake Blvd (Hwy 89), at SW corner of Truckee River Bridge, Tahoe City)

- **NO. 799-2 OVERLAND EMIGRANT TRAIL (Location**: Big Bend Ranger Station, 2008 Hampshire Rocks Rd (old Hwy 40), 8 mi W of Soda Springs)

- **NO. 885 GRIFFITH QUARRY (Location**: SE corner of Taylor and Rock Springs Rds, Penryn)

The following map illustrates the mapped locations of cultural resources within Placer County.



(Source: Placer County Website)

Natural Resources

For purposes of this plan, natural resources include threatened and endangered species and wetlands.

Threatened and Endangered Species. To further evaluate the County's vulnerability in the event of a disaster, it is important to inventory key natural resources such as threatened and endangered species.

Endangered Species means any species of fish, plant life, or wildlife, which is in danger of extinction throughout all or a significant part of its range and is protected by law.

Threatened Species means any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range and protected by law.

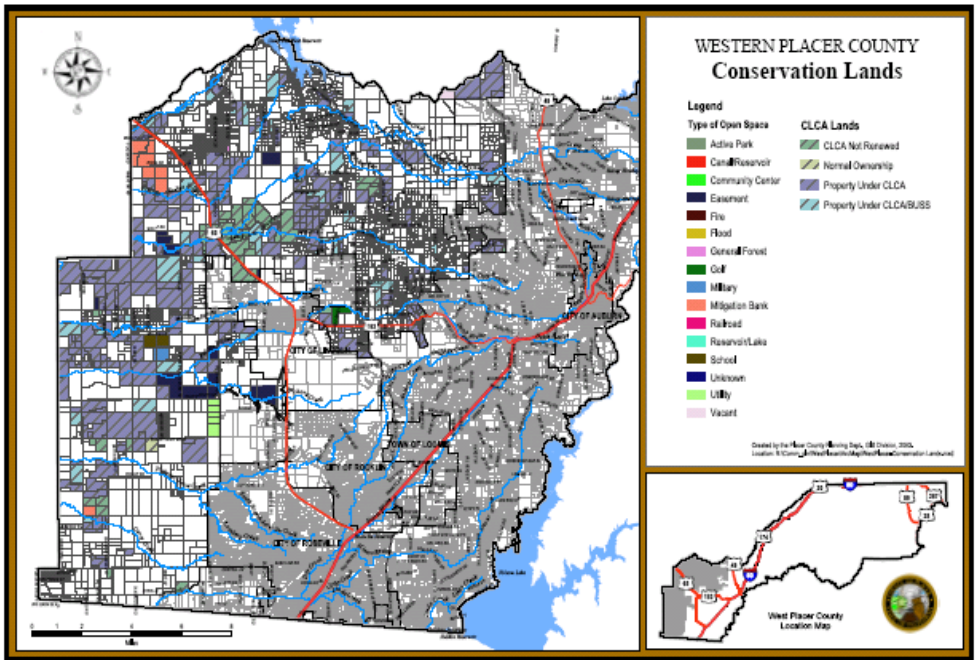
Special Concern means any species about which problems of status or distribution are suspected, but not documented. Many animal species listed as Special Concern are protected under other state and federal laws addressing hunting, fishing, collecting, and harvesting.

The State of California, Department of Fish and Game, identifies the following numbers of State and federally listed endangered, threatened, and rare plants of California.

State and Federally Listed Endangered, Threatened, and Rare Plants of California

Designation	Totals
State-listed endangered	131
State-listed threatened	22
State-listed rare	67
State candidate for listing	1
Federally listed endangered	138
Federally listed threatened	47
Federally proposed endangered	0
Federally proposed threatened	0
Both State and Federally listed	123

In addition, the Placer Legacy Open Space and Agricultural Conservation Program Habitat Conservation Plan/Natural Communities Conservation Plan (HCP/NCCP) has developed a Species List for Placer County as part of Phase 1 of their overall program. Through this program, it is the goal of the County to obtain regulatory coverage for these species through the approval of an HCP/NCCP. The HCP/NCCP will address the requirements of the state and federal Endangered Species Acts and will require coordination between the County and the U.S. Fish and Wildlife Service, the National Marine Fisheries Service and the State Department of Fish and Game. A map showing the boundaries of the Phase I area is provided below. A draft species list generated in December 2000 and revised on August 22, 2001 is also provided below.



(Source: Placer County Website)

PLACER COUNTY SPECIES LIST

Class 1	**Federal**	**State**
Bogg's Lake Hedge-hyssop *(Gratiola heterosepala)*	-	E
Vernal pool fairy shrimp *(Branchinecta lynchi)*	T	-
Vernal pool tadpole shrimp *(Lepidurus packardi)*	E	-
Valley elderberry longhorn beetle *(Desmocerus californicus dimorphus)*		T
Central Valley steelhead *(Oncorhynchus mykiss)*	T*	
Swainson's Hawk *(Buteo swainsoni)*	-	T
Bald Eagle (wintering) (*Haliaeetus leucocephalus*	T	E
American peregrine falcon (wintering) *(Falco peregrinus anatum)*		E
California black rail *(Laterallus jamaicensis)*		T
Bank swallow (nesting) *(Riparia riparia)*		T
Class 1a		
Central Valley Fall/Late Fall-run Chinook salmon *(Oncorhynchus tshawytscha)*	C	
Class 1b		
Foothill yellow-legged frog *(Rana boylii)*	SC	SSC
California burrowing owl *(Athene cunicularia)*	SC	SSC
Class 2	**Status Federal/State**	**Reason for Protection**
Sacramento Winter-run Chinook salmon *(Oncorhynchus tshawytscha)*	E/-	Overlap with other salmonids
Central Valley Spring run Chinook salmon *(Oncorhynchus tshawytscha)*	T/-	Overlap with other salmonids

California red-legged frog *(Rana aurora draytoni)*	T/SSC	Wetland-associated
Giant garter snake *(Thamnophis gigas)*	T/T	Wetland-associated
Yellow-billed cuckoo *(Coccyzus americanus)*		Riparian focus species
California tiger salamander *(Ambystoma californiense)*	C/SSC	Overlap with vernal pool crustaceans
Class 3	**Status Federal/State**	**Reason for Protection**
Dwarf downingia *(Downingia pusilla*	- / - , CNPS-2	Overlap with vernal pool crustaceans
Legenere *(Legenere limosa)*	SC/ -, CNPS-1B	Overlap with vernal pool crustaceans
Ahart's dwarf rush *(Juncus leiospermus var. ahartii)*	SC/ -, CNPS-1B	Overlap with vernal pool crustaceans
Red Bluff dwarf rush *(Juncus leiospermus var. leiospermus)*	- / -, CNPS-1B	Overlap with vernal pool crustaceans
California linderiella *(Linderiella occidentalis)*	- / -	Overlap with vernal pool crustaceans
Western spadefoot toad *(Scaphiopus hammondii)*	SC/SSC	Overlap with vernal pool crustaceans
Northwestern pond turtle *(Clemmes marmorata marmorata)*	SC/SSC	Wetland-associated
Northern harrier (nesting) *(Circus cyaneus)*	- /SSC	Overlap with Swainson's Hawk
Ferruginous hawk (wintering) *(Buteo regalis)*	SC/SSC	Overlap with Swainson's Hawk
Rough-legged hawk (wintering) *(Buteo lagopus)*	- / -	Overlap with Swainson's Hawk
Yellow warbler (nesting) *(Dendroica petechia)*	- /SSC	
Yellow-breasted chat (nesting) *(Icteria virens)*	- /SSC	Riparian focal species
+Modesto song sparrow *(Melospiza melodia mailliardi)*	- /SSC	Riparian focal species
Grasshopper sparrow *(Ammodramus savannarum)*	- /SSC	

Chipping sparrow *(Spizella passerina)*	- / -	Oak woodland focal species
Tricolored blackbird (nesting) *(Agelaius tricolor)*	SC/SSC	Wetland-associated species
Loggerhead Shrike (*Lanius ludovicianus)*	SSC	Oak woodland and woodland riparian species
Cooper's Hawk *(Accipitercooperii)*	SSC	Grasslands species

Definition of Classes:

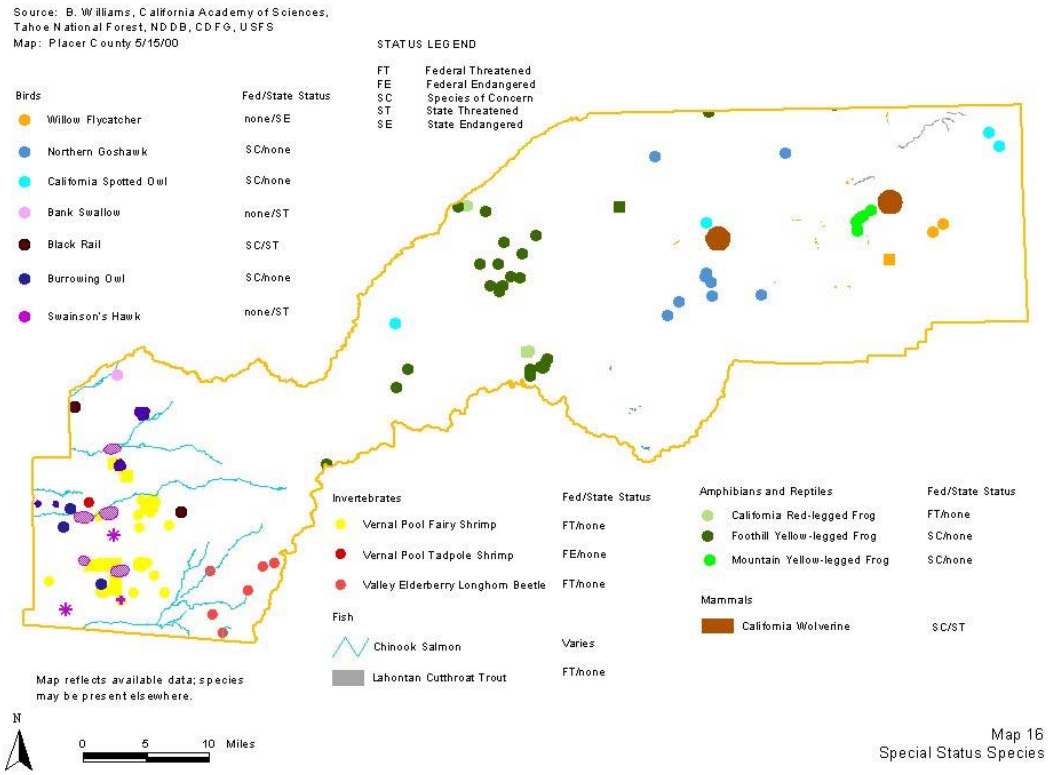
Class 1 – State/Federal Listed Species Known to Occur in Placer County
Class 1a – State/Federal Candidate Species Known to Occur in Placer County
Class 1b – State/Federal Agency Priority Species Known to Occur in Placer County
Class 2 – State/Federal Listed Species that Could Potentially Occur in Placer County
Class 3 – Other Special-Status Species Known to Occur in Placer County

DEFINITIONS OF LEGAL AND PROTECTED STATUS

Federal:	E =	Listed as Endangered under the federal Endangered Species Act
	T =	Listed as Threatened under the federal Endangered Species Act
	C =	Candidate for listing as Threatened or Endangered
	SC =	Species of Concern; species for which existing information indicates it may warrant listing but for which substantial information to support a proposed rule is lacking
	* =	All perennial streams in western Placer County have been declared Critical Habitat for Central Valley Steelhead
	- =	No legal or protected federal status
State:	E =	Listed as Endangered under the California Endangered Species Act
	T =	Listed as Threatened under the California Endangered Species Act
	SSC =	Species of Special Concern; included on the California Department of Fish and Game's lists of declining and vulnerable amphibians, reptiles, birds, and mammals of California
	- =	No legal or protected California status
CNPS:	1B =	California Native Plant Society, List 1B; rare, threatened, or endangered in California and elsewhere
	2 =	List 2; rare, threatened, or endangered in California but more common elsewhere

The following map illustrates locations of mapped Threatened and Endangered species within Placer County.

PLACER COUNTY SPECIAL STATUS SPECIES

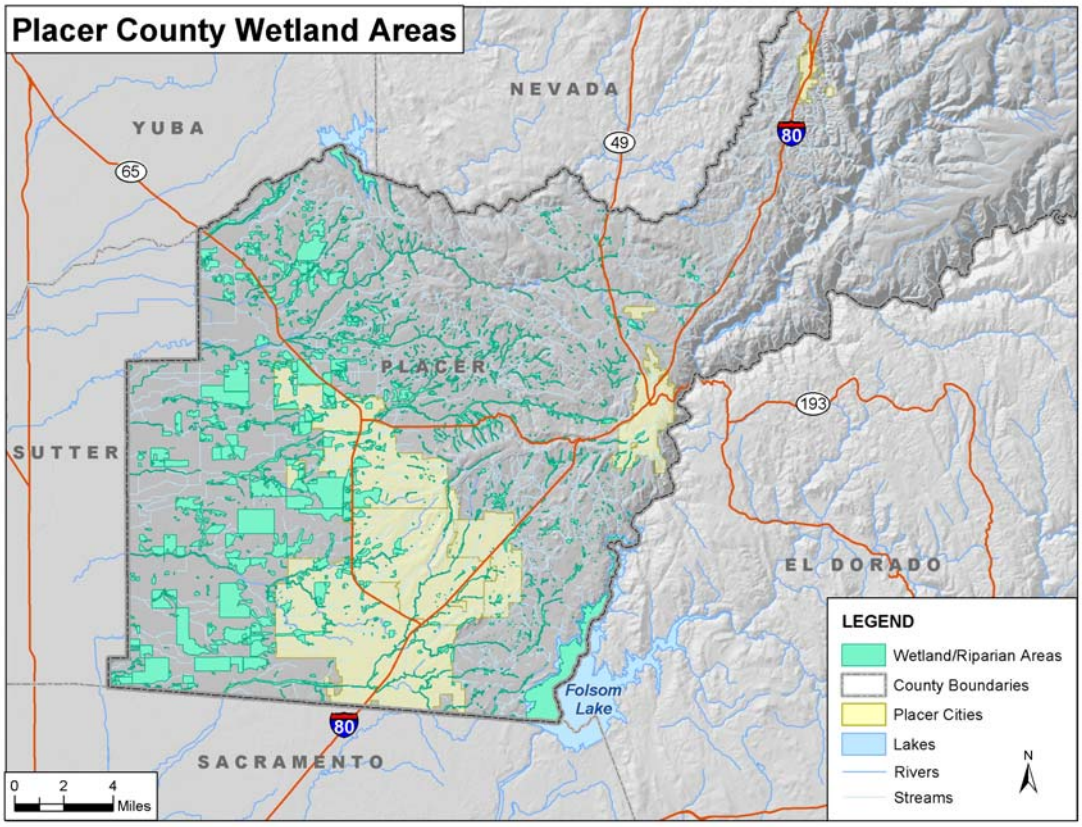


(Source: Placer County Website)

Wetlands. Wetlands in Placer County are also an important and legally protected resource. Wetland communities play a vital role in groundwater recharge, water quality protection, and provide habitat for dependent plant and wildlife species. A variety of wetlands occur in Placer County, and activities that affect these wetlands may require special permitting under Section 404 of the Federal Clean Water Act.

In Placer County, areas that have a high potential to meet the regulatory definition of wetlands under section 404 of the Clean Water Act (CWA) are vernal pools, alkali meadow and seeps, wet meadows, fresh emergent wetlands, and portions of montane riparian and mixed riparian forests. In addition to these wetlands defined by section 404 of the Clean Water Act, substantial wetland habitat values or other ecological benefits may be associated with functional wetlands.

The mapped wetlands in Placer County are provided on the following page.



(Map Compilation: AMEC Earth & Environmental; Source data: Placer County GIS)

Development Trends

According to the 2004 Placer County Economic and Demographic Profile, the County has experienced substantial growth over the last 14 years. The following sections taken from this report illustrate recent and projected growth and development trends in the County.

In 2000, Placer County had a population of 248,399, an increase of approximately 44 percent over 1990. Relatively strong population growth continued in Placer County between 1999 and 2003 with a growth rate of nearly 16 percent. The rate of growth in Placer County continues to exceed that of the state, the Bay Area, and the Greater Sacramento Area. Many of the cities in Placer County have also experienced high population growth rates, with Lincoln and Rocklin seeing growth rates well above the County's overall growth. Only two cities have demonstrated negative population growth between 1999 and 2003—Auburn and Loomis. Population trends in Placer County have placed the County second among all counties in the state for growth between 2002 and 2003. Three cities in the County are among the top 30 in the state including Lincoln (second highest growth in the state), Roseville, and Rocklin. The table that follows contains the 1990 and 1999 through 2003 populations for the county, selected regions, cities and the unincorporated area.

POPULATION

Area	1990 (Actual)	1999 (Estimate)	2000 (Actual)	2001 (Estimate)	2002 (Estimate)	2003 (Estimate)	1999-2003 (Percent Change)
California	29,758,213	33,140,000	33,871,648	34,367,000	35,000,000	35,591,000	7.4%
Bay Area	6,020,147	6,658,500	6,783,760	6,867,200	6,936,700	6,994,500	5.0%
Greater Sacramento Area	1,603,863	1,878,100	1,936,006	1,974,500	2,029,900	2,078,500	10.7%
Placer County	172,796	238,300	248,399	255,100	265,700	275,600	15.7%
Cities in Placer County:							
Auburn	10,653	12,700	12,462	12,400	12,300	12,250	-3.5%
Colfax	1,306	1,500	1,496	1,530	1,650	1,710	14.0%
Lincoln	7,248	9,600	11,205	13,850	17,750	20,550	114.1%
Loomis	5,705	6,375	6,260	6,225	6,175	6,175	-3.1%
Rocklin	18,806	32,250	36,330	38,250	41,250	43,600	35.2%
Roseville	44,685	76,700	79,921	82,200	85,800	90,700	18.3%
Unincorporated County	84,393	99,200	100,725	100,700	100,800	100,600	1.4%

Sacramento Regional Research Institute, December 2003
Data Source: US Census Bureau, 1990 & 2000 Census
California Department of Finance
Association of Bay Area Governments (ABAG)

Projections show that the rate of growth in Placer County is expected to increase by almost 60 percent between 2000 and 2020. Similar to the more recent trends, Placer's population growth is expected to exceed the rates of the state, the Bay Area, and the Greater Sacramento Area. Lincoln, the fastest growing city in the county between 1999 and 2003, is also expected to have the greatest growth in Placer County between 2000 and 2020 with a growth rate of approximately 405 percent. The following table shows the 2000 population and the projected populations for 2005, 2010, 2015, and 2020 for the county, selected regions, cities and the unincorporated area.

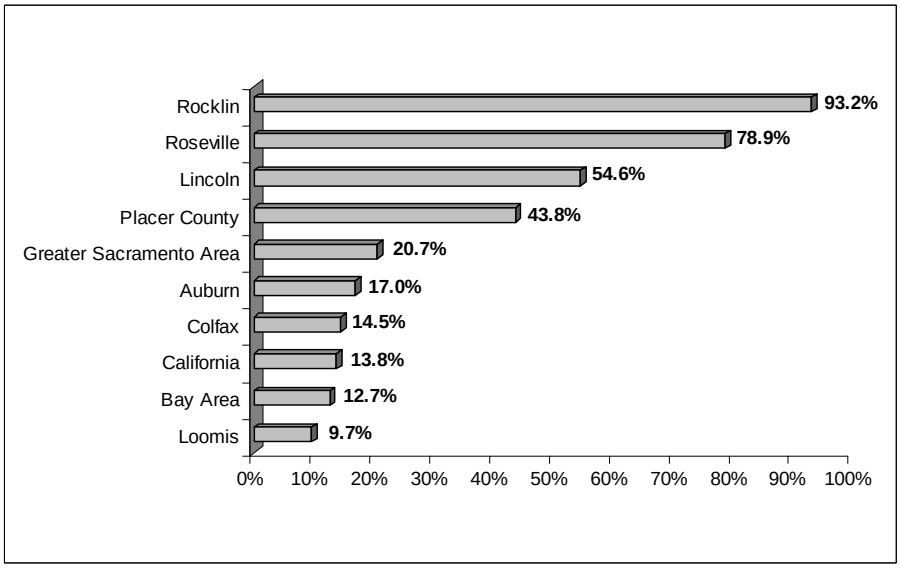
POPULATION PROJECTIONS

Area	2000 (Actual)	2005 (Projected)	2010 (Projected)	2015 (Projected)	2020 (Projected)	2000-2020 (Percent Change)
California	33,871,648	37,473,500	40,262,400	42,711,200	45,821,900	35.3%
Bay Area	6,783,760	7,193,900	7,513,800	7,772,200	8,014,100	18.1%
Greater Sacramento Area	1,936,006	2,117,788	2,340,297	2,549,370	2,696,205	39.3%
Placer County	248,399	292,640	336,805	376,240	396,785	59.7%
Cities in Placer County:						
Auburn	12,462	13,000	14,090	15,180	16,240	30.3%
Colfax	1,496	1,820	2,065	2,370	2,670	78.5%
Lincoln	11,205	26,060	38,350	54,370	56,575	404.9%
Loomis	6,260	6,770	8,400	9,310	9,830	57.0%
Rocklin	36,330	44,100	50,700	58,470	68,870	89.6%
Roseville	79,921	100,000	109,160	109,460	109,360	36.8%
Unincorporated County	100,725	100,890	114,040	127,080	137,240	36.3%

Sacramento Regional Research Institute, December 2003
Data Source: California Department of Finance
Sacramento Area Council of Governments (SACOG)
Association of Bay Area Governments (ABAG)

The figure on the following page shows the 1990 to 2000 population growth rates for California, the Greater Sacramento Area, Placer County, and selected cities in the county. Between 1990 and 2000, Placer County grew by approximately 44 percent. Over this time period, Rocklin was the fastest growing city in Placer County with a growth rate of close to 93 percent. Roseville, with a 79 percent population growth rate, was the second fastest growing city. Lincoln, which has seen the highest recent population growth rates, experienced the third largest growth rate over the decade between 1990 and 2000 with 55 percent growth.

POPULATION GROWTH RATES BETWEEN 1990 AND 2000



Sacramento Regional Research Institute, December 2003
Data Source: U.S. Census Bureau, 1990 & 2000 Census

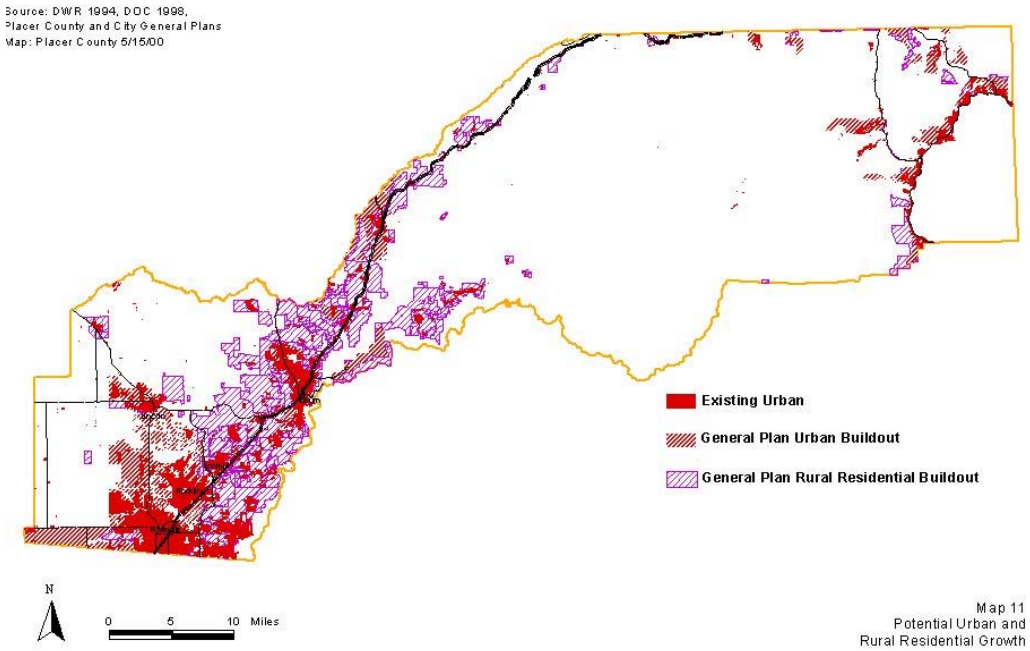
The figure below outlines the population change in the main regions of Placer County - the Valley (Roseville, Rocklin, Lincoln, Granite Bay, and Sheridan); Gold Country (Auburn, Colfax, and Foresthill); and High Country (Kings Beach, Tahoe City, Soda Springs, and Blue Canyon). The Valley region experienced a 61 percent population increase between 1990 and 2000 while Gold Country and High Country had much lower growth rates at 10 and 6 percents, respectively.

POPULATION CHANGES IN THE REGIONS OF PLACER COUNTY

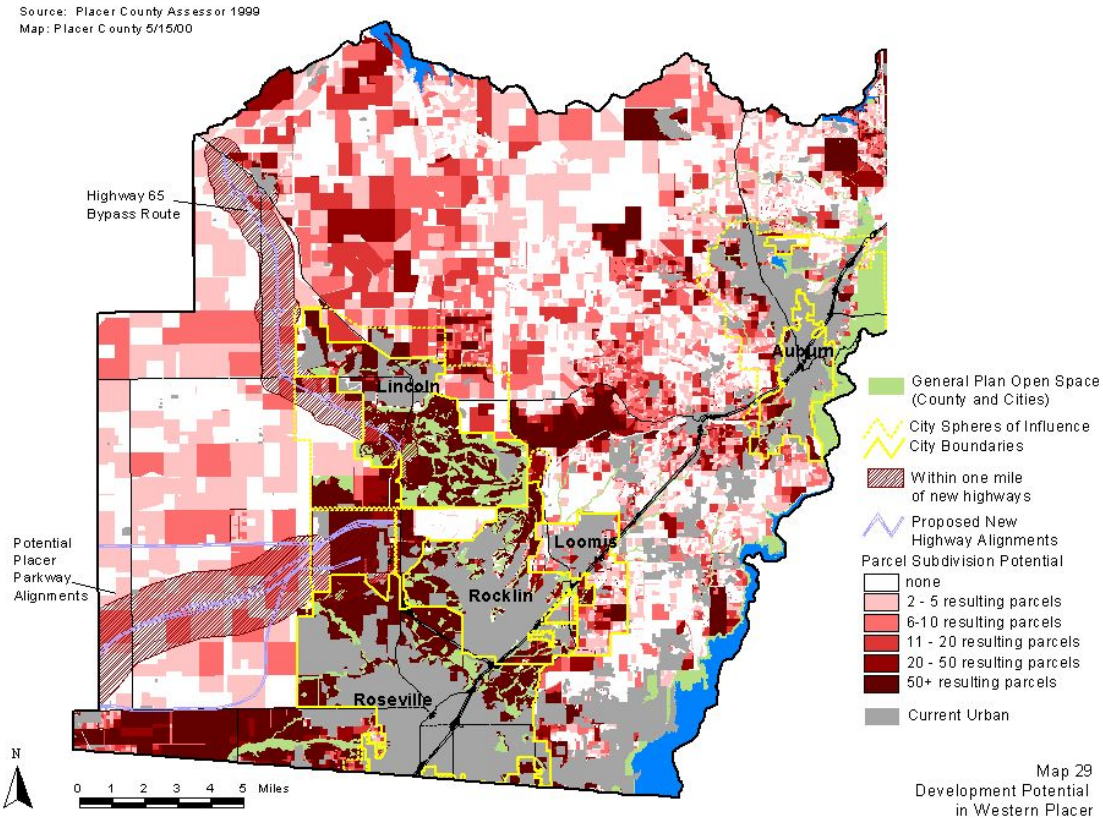
Area	***1990***	***2000***	***Percent Change 1990-2000***
The Valley	90,576	145,591	60.7%
Gold Country	36,989	40,609	9.8%
High Country	14,362	15,275	6.4%

Sacramento Regional Research Institute, December 2003
Data Source: Sacramento Area Council of Governments (SACOG)

The following maps obtained from the Placer County website illustrate the development potential for the County.



(Source: Placer County Website)



(Source: Placer County Website)

VULNERABILITY OF PLACER COUNTY FROM SPECIFIC HAZARDS

Community vulnerability can be quantified in those instances where there is a known, identified hazard area, such as a mapped floodplain. In these instances the numbers and types of buildings subject to the identified hazard can be counted and their values tabulated. Further, other information can be collected, such as the location of critical community facilities (e.g., a fire station), historic structures, and valued natural resources (e.g., an identified wetland or endangered species habitat) that are within the specific hazard area. Together, this information portrays the impact, or *vulnerability*, of that area to that hazard.

It is important to note that these values can sometimes be refined one step further, with regard to the percent of probable impact. For example, when a flood occurs, seldom does the event cause the total destruction of an area. In fact, we know from NFIP insurance claims, that a flood with an average depth of 2-feet above the ground, is likely to cause approximately 20 percent damage to structures in the aggregate (those with basements, no basements, and second stories). Thus, if the 100-year flood were estimated to be 2-feet deep, a more accurate description of flood vulnerability would be a one percent annual chance of incurring a loss of 20 percent of the values tabulated in the 100-year floodplain --- and this is without the additional impacts of damage to infrastructure and economic disruption. This allows a community to measure the cost-effectiveness of alternative mitigation projects under consideration. The benefits of a mitigation project are the future losses avoided --- or, in this example, that portion of the value of the one percent annual chance of 20 percent damage that is protected by the project.

Identified Hazard Risk Areas: Flood, Dam Failure, Wildfires

The HMPC identified three hazards within the Planning Area where specific geographical hazard areas have been defined: flood, dam failure, and wildfires. For these three hazard areas, the HMPC has inventoried the following for each community, to the extent feasible, as a means of quantifying the vulnerability within the identified hazard areas:

- General hazard-related impacts, including impacts to life, safety and health;
- Values at Risk (i.e., Types, numbers, and value of land and improvements);
- Insurance coverage, Claims paid, and Repetitive losses;
- Identification of Critical Facilities at risk;
- Identification of Cultural and Natural Resources at risk;
- Overall Community Impact; and
- Development trends within the identified hazard area.

The Sections that follow present the vulnerability analysis for the Placer County and for each of the five incorporated communities participating in this Plan.