

December 2004 Disaster Mitigation Plan Slide 1

[Next Slide](#)



Hazard Mitigation & Emergency Management Services
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Hazard Mitigation Planning in Placer County

Placer County DMA Plan – Public Meetings



Bob Olson, Robert Olson Associates
Jeanine Foster, AMEC Earth & Environmental
Hazard Mitigation Planning

[Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 2

[Previous slide](#) || [Next Slide](#)



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DMA Planning

What It Is and Why It's Important

Disaster Mitigation Act of 2000

- FEMA Mitigation Funding Requirement
- Public Input Requirement
- Contributes to Lowering the Cost of Flood Insurance

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2

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 3

[Previous slide](#) || [Next Slide](#)

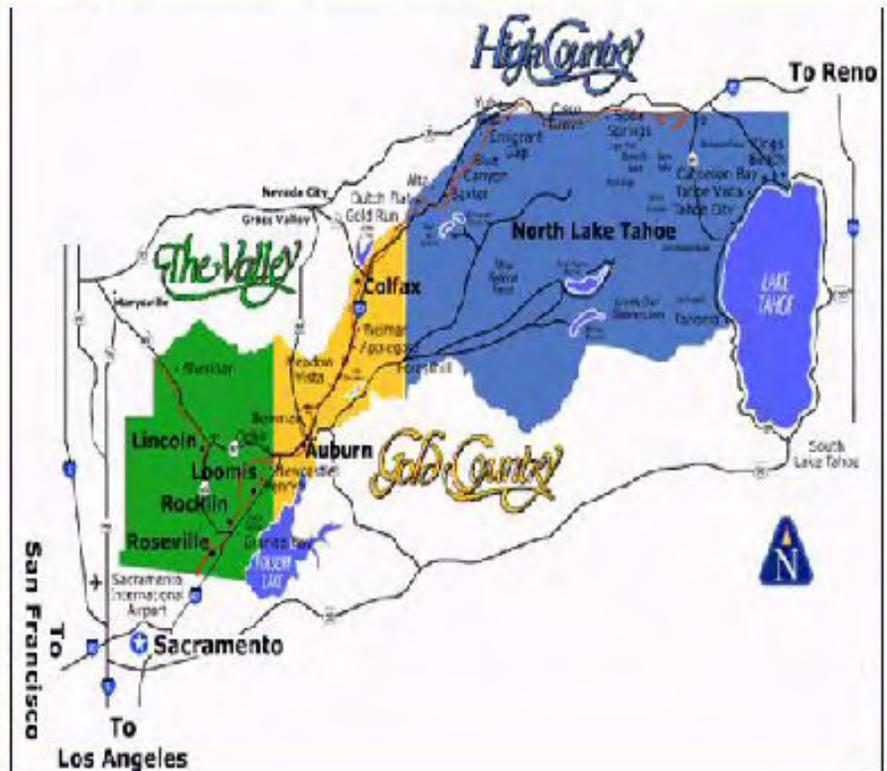


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Participating Communities

- Placer County
- City of Auburn
- City of Colfax
- City of Lincoln
- Town of Loomis
- City of Rocklin
- Numerous Districts



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[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 4

[Previous slide](#) || [Next Slide](#)



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Participating “Communities”

- Recreation & Park Districts
- Community College District
- School Districts
- Fire Protection Districts
- Flood Control Districts
- Reclamation Districts
- Utility Districts
- Regional Water Agency

➤ Land Ownership in County

Owner	Population	Square Miles
City of Auburn	12,462	7.6
City of Colfax	1,496	1.3
City of Lincoln	11,906	18.3
Town of Loomis	6,260	7.3
City of Rocklin	18,000	21
City of Roseville	79,621	31
Unincorporated Areas	100,726	1,414.7
Totals	248,998	1,501.1

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[Previous slide](#) || [Next Slide](#)

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Slide 5

[Previous slide](#) || [Next Slide](#)



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The 10-Step DMA Mitigation Planning Process

Phase I: Organize Your Resources

1. Get organized
2. Plan for public involvement
3. Coordinate with other departments and agencies

Phase II: Assess Hazards and Risks

4. Identify the hazard(s)
5. Assess the risks

Phase III: Develop A Mitigation Plan

6. Set planning goals
7. Review possible activities
8. Draft an action plan
9. Adopt the plan

Phase IV: Evaluate Your Work

10. Implement the plan, evaluate its worth, and revise as needed

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5

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 6

[Previous slide](#) || [Next Slide](#)

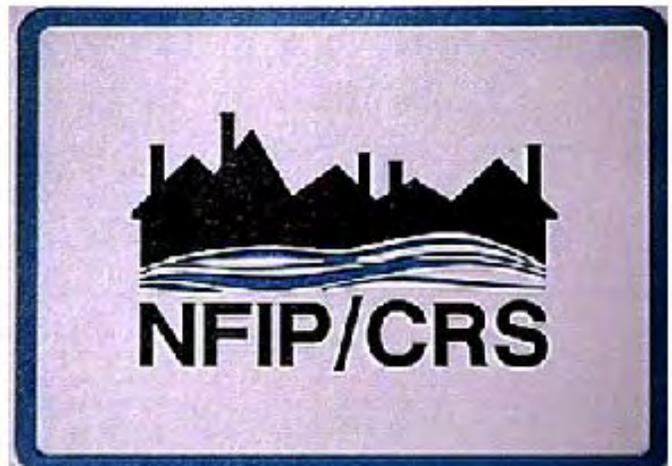


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The National Flood Insurance Program's Community Rating System (Placer County = CRS 6)

➤ Recognizes Communities that manage their floodplains beyond the minimum standards by providing discounted flood insurance rates



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6

[Previous slide](#) || [Next Slide](#)

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Slide 7

[Previous slide](#) || [Next Slide](#)



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The 10-Step CRS Mitigation Planning Process

DMA Planning Regulations	CRS Planning Steps	Maximum Points
Planning process		
201 6(c)(1)	1. Organize	10
201 6(b)(1)	2. Involve the public	72
201 6(b)(2) & (3)	3. Coordinate	18
Risk assessment		
201 6(c)(2)(i)	4. Assess the hazard	20
201 6(c)(2)(ii) & (iii)	5. Assess the problem	25
Mitigation strategy		
201 6(c)(3)(i)	6. Set goals	2
201 6(c)(3)(ii)	7. Review possible activities	70
201 6(c)(3)(iii)	8. Draft an action plan	70
Plan maintenance		
201 6(c)(4)	9. Adopt the plan	2
201 6(c)(4)	10. Implement, evaluate, revise	25
	Total	294

Planning process will create eligibility for:

PDM

HMGP

FMA

CRS – R.L. Cat. C
Communities

USACE

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[Previous slide](#) || [Next Slide](#)

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[Previous slide](#) || [Next Slide](#)



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1. Get Organized—Creating the Planning Team

County Government

- Emergency Services
- Water Resources
- Public Works
- GIS
- Assessor's Office
- Utilities
- Planning
- Public Information
- Police
- Fire



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8

[Previous slide](#) || [Next Slide](#)

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[Previous slide](#) || [Next Slide](#)



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2. Plan for Public Involvement

➤ Citizen IIMPC members

- Community members

➤ PIO Coordination

- Press Releases

➤ Website

➤ Public Meetings



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[Previous slide](#) || [Next Slide](#)

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[Previous slide](#) || [Next Slide](#)



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3. Coordinate with Other Departments and Agencies

- ▼ State Hazard Mitigation Officer
- ▼ State (hazard) Program Manager
- ▼ FEMA Regional Hazard Mitigation Officer
- ▼ Other State & Federal Agencies
 - CA-OES, CA-DWR, Caltrans, CDF
 - USACE, FWS, NWS, BOR, USDA, USFS, FEMA
- ▼ Regional agencies
 - Placer County Fire Safe Alliance;
 - Placer County Water Agency
 - Placer County Resource Conservation District
 - Adjacent communities



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December 2004

[Previous slide](#) || [Next Slide](#)

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Slide 11

[Previous slide](#) || [Next Slide](#)



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Risk Assessment

Three Components

- Hazard Identification (What can happen here?)
- Vulnerability Assessment (What will be affected?)
- Capability Assessment (How prepared are we?)

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December 2004

11

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 12

[Previous slide](#) || [Next Slide](#)



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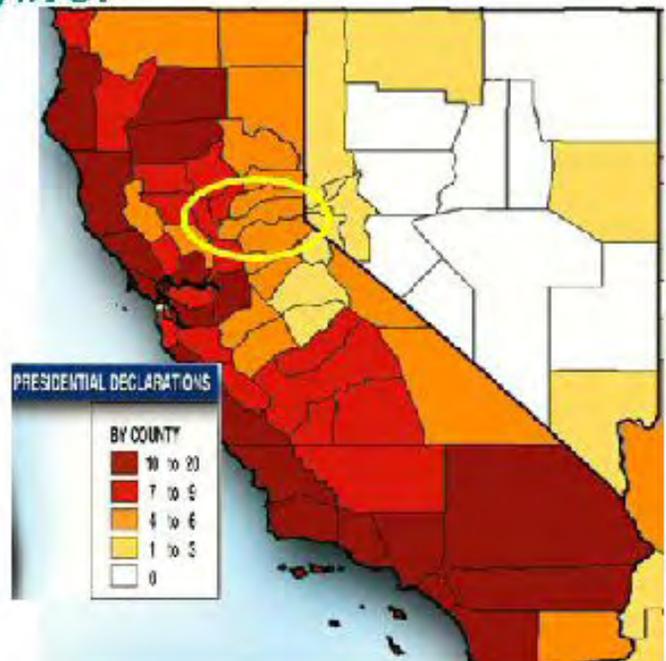
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4. Identify the Hazard(s)

An Investigative Process: Has it Happened Here Before?

- Documentation
 - Historical Events
 - Scientific Data
 - Cultural Resources
- Maps
 - Agency
 - Engineering
- Environmental Features

Before?



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12

[Previous slide](#) || [Next Slide](#)

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Slide 13

[Previous slide](#) || [Next Slide](#)



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4. The Hazards

- Hazards
 - Severe Weather
 - Floods
 - Dam Failure
 - Landslides
 - Wildfires
 - Earthquakes
 - Agricultural Hazards
 - Natural Health Hazards

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December 2004

13

[Previous slide](#) || [Next Slide](#)

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Slide 14

[Previous slide](#) || [Next Slide](#)



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4. Placer County Flood History

- 1852, 1860, 1861-62, 1875, 1880
- 1955, 1958, 1962, 1964, 1983, 1986, 1992, 1995, 1996, 1997

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14

[Previous slide](#) || [Next Slide](#)

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Slide 15

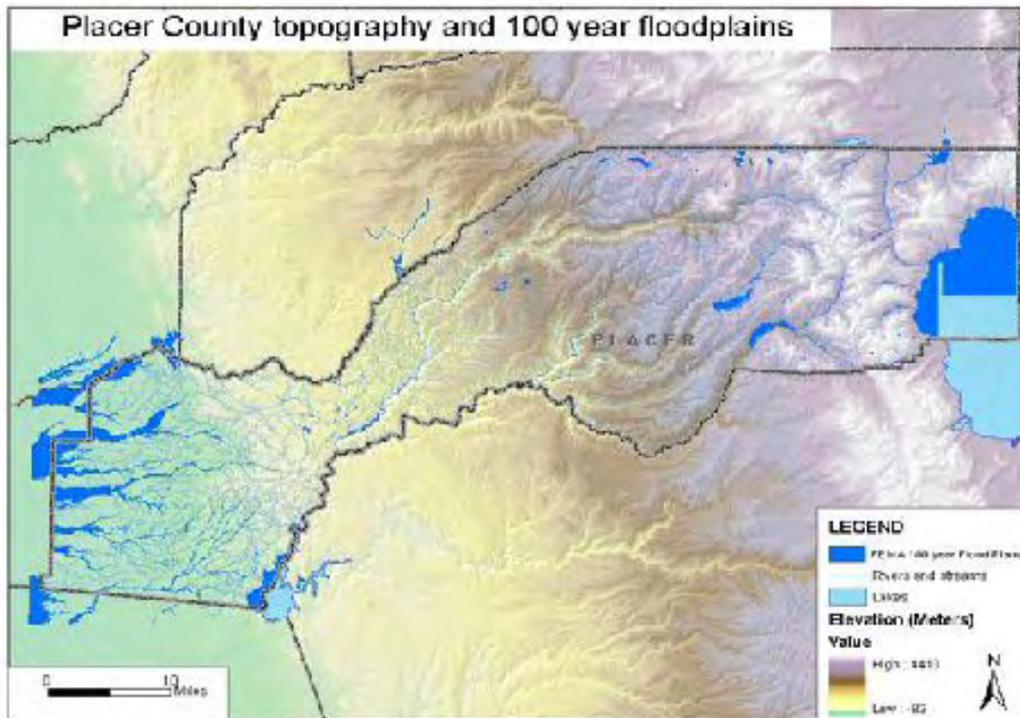
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4. Placer County Flood Risk



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15

[Previous slide](#) || [Next Slide](#)

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Slide 16

[Previous slide](#) || [Next Slide](#)



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4. Placer County Wildfire History

- **2001:** Star Fire - The Star Fire started in Eldorado National Forest and spread to Tahoe National Forest. From August 25 to September 13 it burned approximately 16,761 acres.
- **2001:** Martis Fire - This fire east of Truckee burned 20,000 acres; threatened homes; and shut down Interstate 80.
- **2002:** Sierra Fire - Within Loomis and Granite Bay approximately 900 acres of grass, brush and oaks burned. The fire destroyed six structures and threatened two schools. One hundred homes were evacuated, and more than 1,000 homes in both communities threatened. FEMA provided federal funds to assist in fighting this wildfire.
- **2004:** Stevens Fire - The Stevens Fire located at Cape Horn/Iowa Hill near Colfax, was 100% contained at 934 acres.

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December 2004

16

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 17

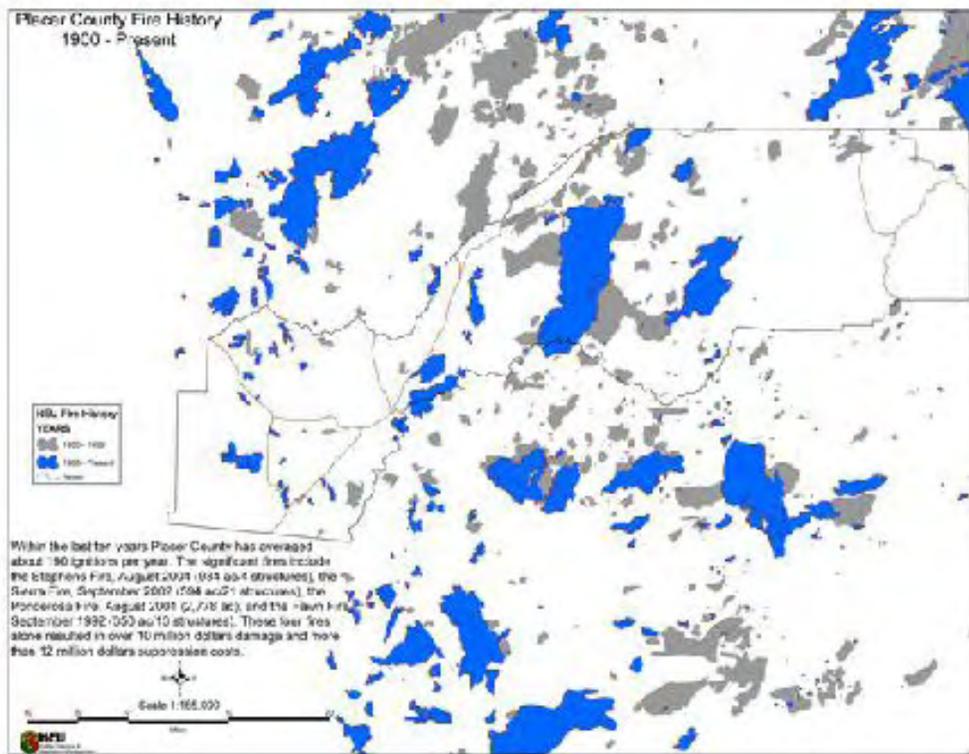
[Previous slide](#) || [Next Slide](#)



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4. Placer County Wildfire History



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December 2004

17

[Previous slide](#) || [Next Slide](#)

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Slide 18

[Previous slide](#) || [Next Slide](#)



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4. Placer County Wildfire History

Placer County Significant* Fires by Cause and Acres Burned (1908 – 2003)

Summary Table			
CAUSE	CAUSE CODE	Count	Total ACRES
Lightning	1	9	2,835
Equipment Use	2	4	1,529
Smoking	3	2	534
Campfire	4	2	16,588
Debris	5	2	390
Arson	7	4	645
Miscellaneous*	9	36	75,792
Vehicle	10	3	3,397
Powerline	11	1	284
Unknown/Undentified	14	86	125,678
Totals		149	227,672

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December 2004

18

[Previous slide](#) || [Next Slide](#)

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Slide 19

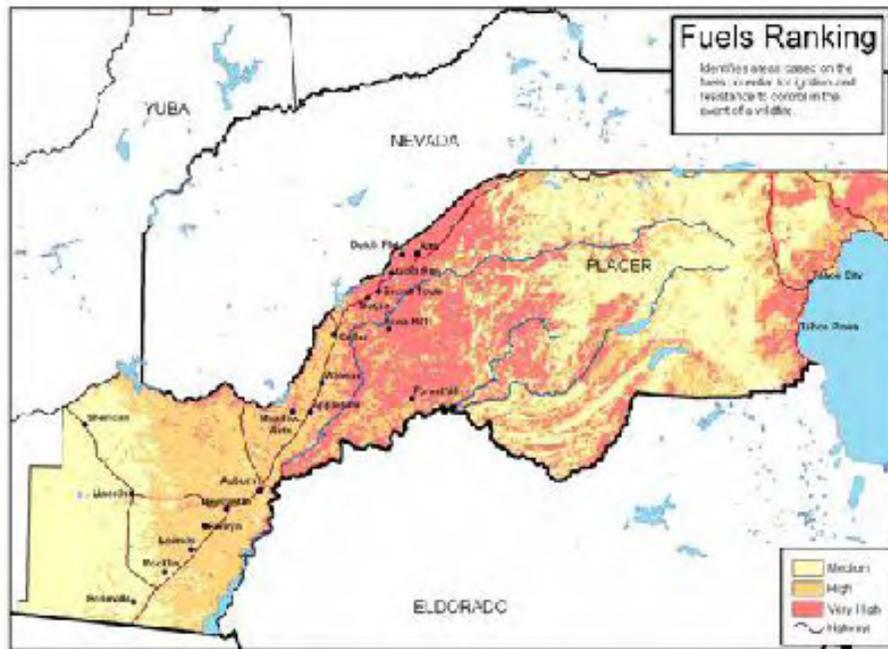
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4. Placer County Wildfire Risk



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December 2004

[Previous slide](#) || [Next Slide](#)

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Slide 20

[Previous slide](#) || [Next Slide](#)



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4. Placer County Earthquake History

- 1892
- 1906
- 1908*
- 1954
- 1975



Felt, but not occurring in County

**Occurred in County*

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[Previous slide](#) || [Next Slide](#)

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Slide 21

[Previous slide](#) || [Next Slide](#)



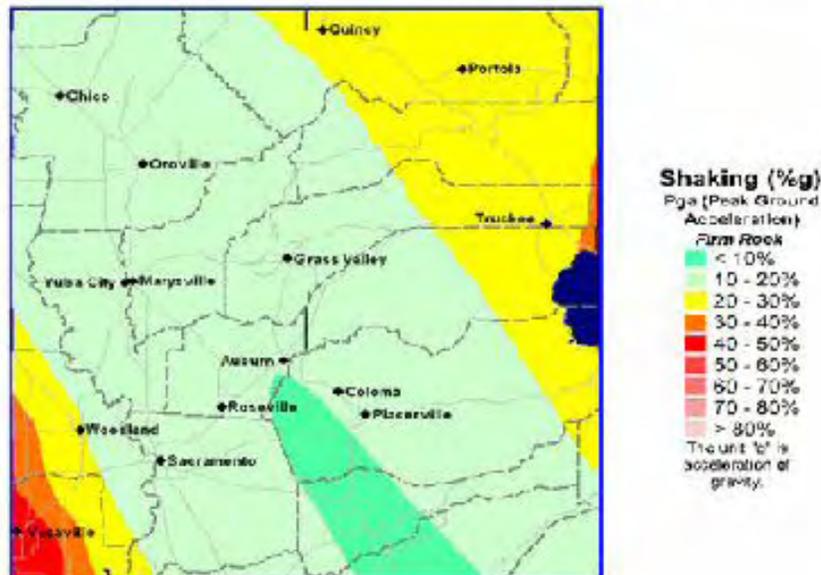
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4. Placer County Earthquake Risk

Interactive Ground Motion Map - Centered on 121° W (Longitude); 39° N (Latitude)

Peak Ground Acceleration - 10% of being exceeded in 50 years



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December 2004

21

[Previous slide](#) || [Next Slide](#)

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Slide 22

[Previous slide](#) || [Next Slide](#)



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Risk Assessment

Three Components

- Hazard Identification (What can happen here?)
- Vulnerability Assessment (What will be affected?)
- Capability Assessment (How prepared are we?)

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December 2004

22

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 23

[Previous slide](#) || [Next Slide](#)

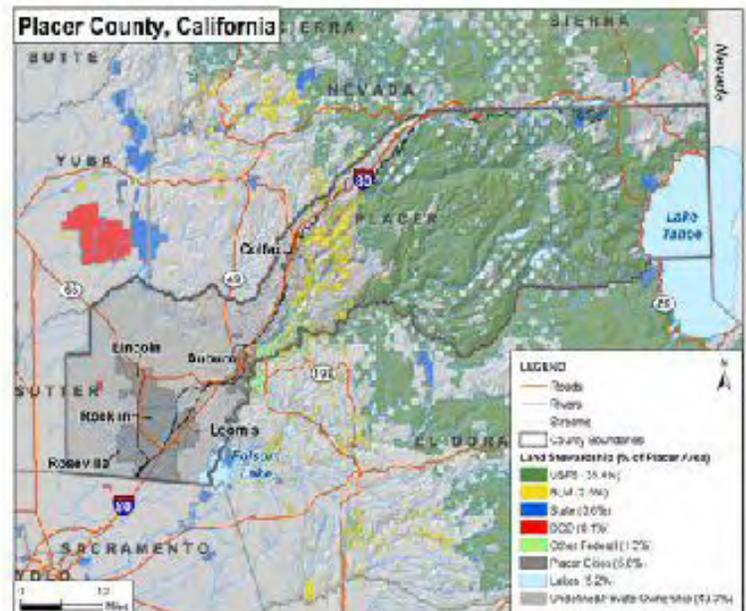


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5. Vulnerability Assessment *What Will Be Affected?*

- Inventory residential & commercial structures
- Inventory community critical facilities
- Determine value of structures



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December 2004

[Previous slide](#) || [Next Slide](#)

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Slide 25

[Previous slide](#) || [Next Slide](#)



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5. Assessed Values at Risk

City of Auburn
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	4,544	561,841,685
Commercial	481	167,051,396
Industrial	37	104,177,366
Agricultural	31	765,125
Total Value	5,494	1,142,840,470

Town of Incline
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	2,455	429,672,878
Commercial	177	56,062,426
Industrial	117	90,730,014
Agricultural	36	2,749,550
Total Value	2784	579,215,798

City of Colfax
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	701	70,073,329
Commercial	119	24,574,567
Industrial	26	16,714,795
Agricultural	4	-
Total Value	850	131,363,191

City of Rocklin
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	15,817	4,126,507,048
Commercial	524	578,156,929
Industrial	165	371,511,507
Agricultural	52	1,998,872
Total Value	16,558	4,978,175,036

City of Lincoln
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	12,249	2,732,463,065
Commercial	228	116,751,234
Industrial	111	135,272,364
Agricultural	22	1,050,203
Total Value	12,702	2,985,536,862

Unincorporated Placer County
2004 Certified Roll Values

Property Type	Units	Net Value
Residential	63,123	14,412,059,652
Commercial	2,274	1,733,402,885
Industrial	501	369,703,076
Agricultural	2,203	338,324,687
Total Value	68,106	16,284,500,307

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December 2004

[Previous slide](#) || [Next Slide](#)

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Slide 26

[Previous slide](#) || [Next Slide](#)



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5. Vulnerability Components Examined in Placer

- **Critical Facilities** – Class 1, 2, & 3
- **Cultural Resources**
 - Federal/State Historic Preservation District Registers
 - California Historical Landmarks
- **Natural Resource Areas**
 - Threatened and Endangered Species
 - Wetlands
- **Development Trends**

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December 2004

26

[Previous slide](#) || [Next Slide](#)

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Slide 27

[Previous slide](#) || [Next Slide](#)



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5. Critical Facilities

- **Class 1 Facilities** those facilities that contribute to command, control, communications, and computer capabilities associated with managing an incident from initial response through recovery.
- **Class 2 Facilities** those facilities that house emergency services capabilities.
- **Class 3 Facilities** – those facilities that enable key utilities and can be used as evacuation centers/shelters/mass prophylaxis sites, etc.

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December 2004

27

[Previous slide](#) || [Next Slide](#)

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Slide 28

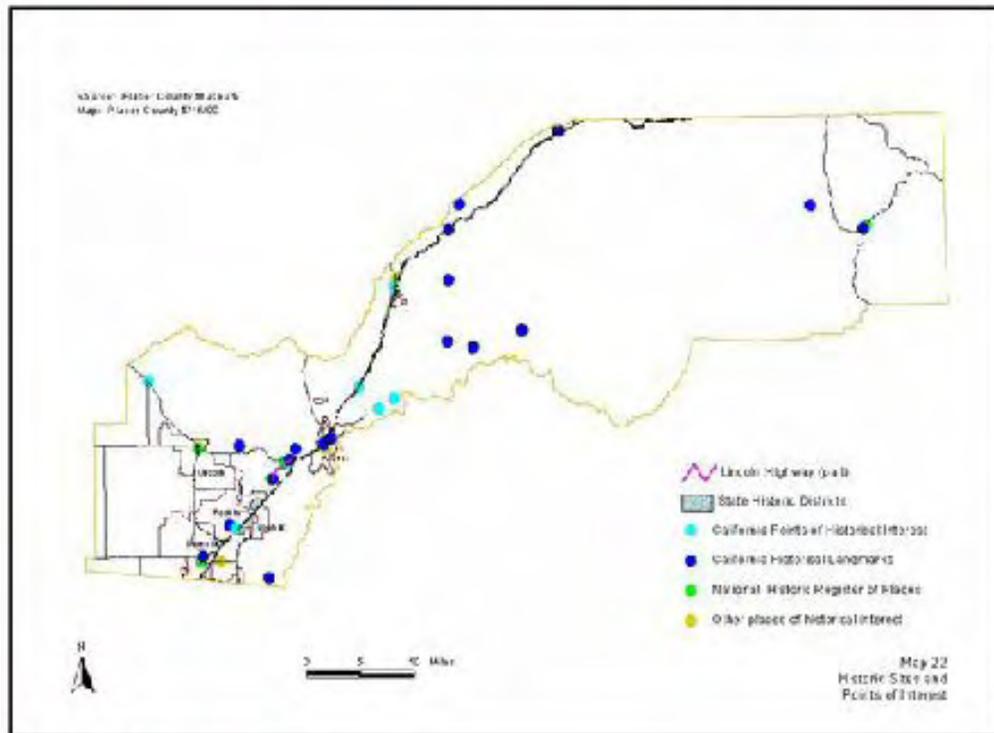
[Previous slide](#) || [Next Slide](#)



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5. Cultural Resources



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December 2004

[Previous slide](#) || [Next Slide](#)

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Slide 30

[Previous slide](#) || [Next Slide](#)

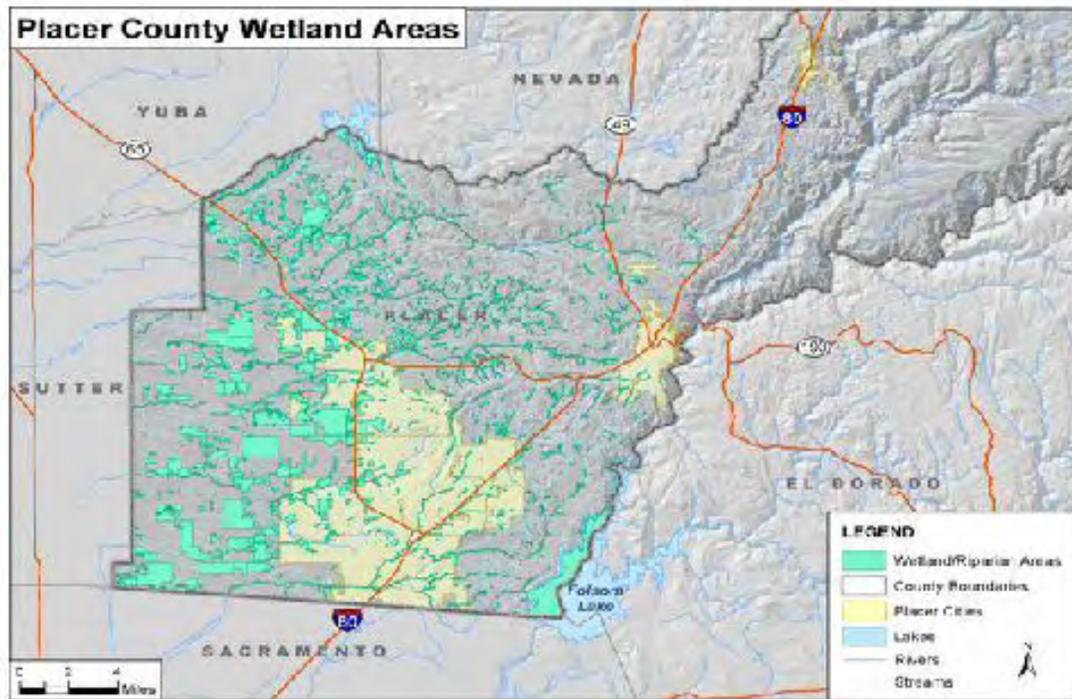


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5. Natural Resources

Wetlands



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December 2004

30

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 31

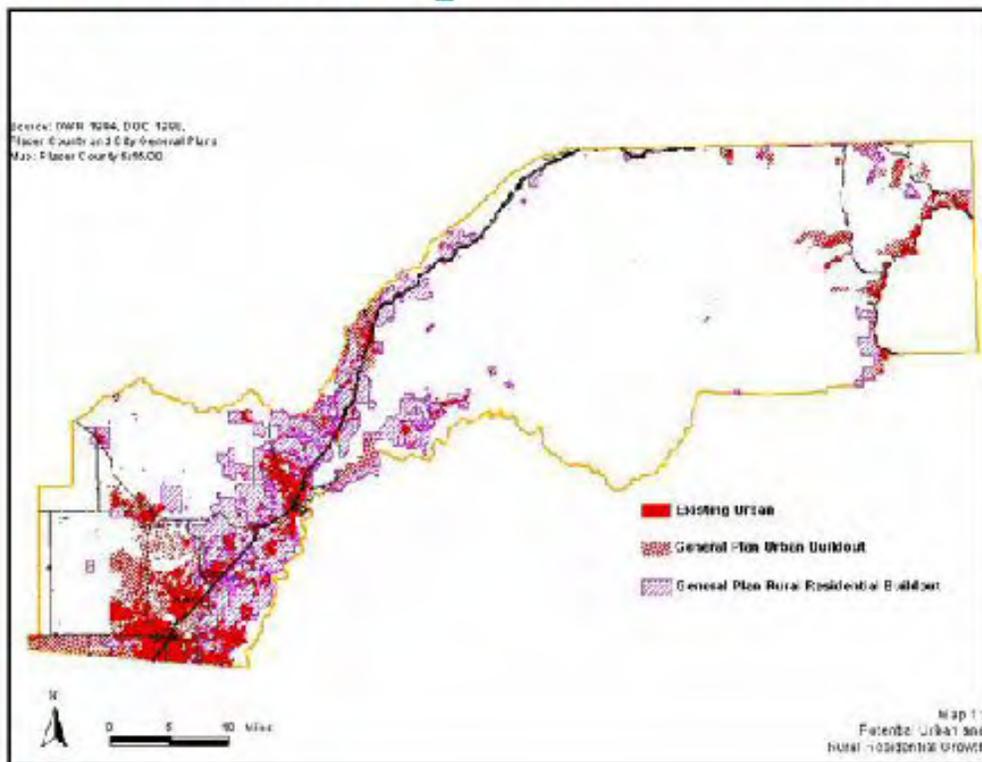
[Previous slide](#) || [Next Slide](#)



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5. Development Trends



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December 2004

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 32

[Previous slide](#) || [Next Slide](#)



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5. Vulnerability to Floods

- 10,452 parcels in floodplain valued at \$3,156,523,850
- 1,053 flood insurance policies as of August 31, 2004
- 594 historical claims for flood losses totaling \$14,835,582
- 51 *historic* repetitive loss (RL) properties in County: 16 in unincorporated; 27 in Roseville; and 8 in other incorporated communities
- 6 *current (known)* RL properties in County: 3 in unincorporated; 3 in Roseville; and ?? in other incorporated communities

Placer County Public Meetings
December 2004

32

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 33

[Previous slide](#) || [Next Slide](#)



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5. Vulnerability to Wildfires

Placer County: Total Values at Risk to Wildfire

Fire Risk Community	Medium		High		Very High	
	Parcel #	Value	Parcel #	Value	Parcel #	Value
Unincorp. Placer	20,918	5,896,045,220	56,318	12,731,495,794	624	32,279,213
Auburn	0	0	5,983	1,217,244,272	5	785,044
Calfax	2	0	917	147,951,738	0	0
Lincoln	11,098	3,611,496,636	17	43,949,110	0	0
Taxminis	0	0	2,971	641,694,081	0	0
Rocklin	15,394	5,116,047,853	1,962	758,610,013	0	0
Total: All Placer	46,692	14,623,589,709	68,168	15,570,945,008	629	33,064,257

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December 2004

33

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 34

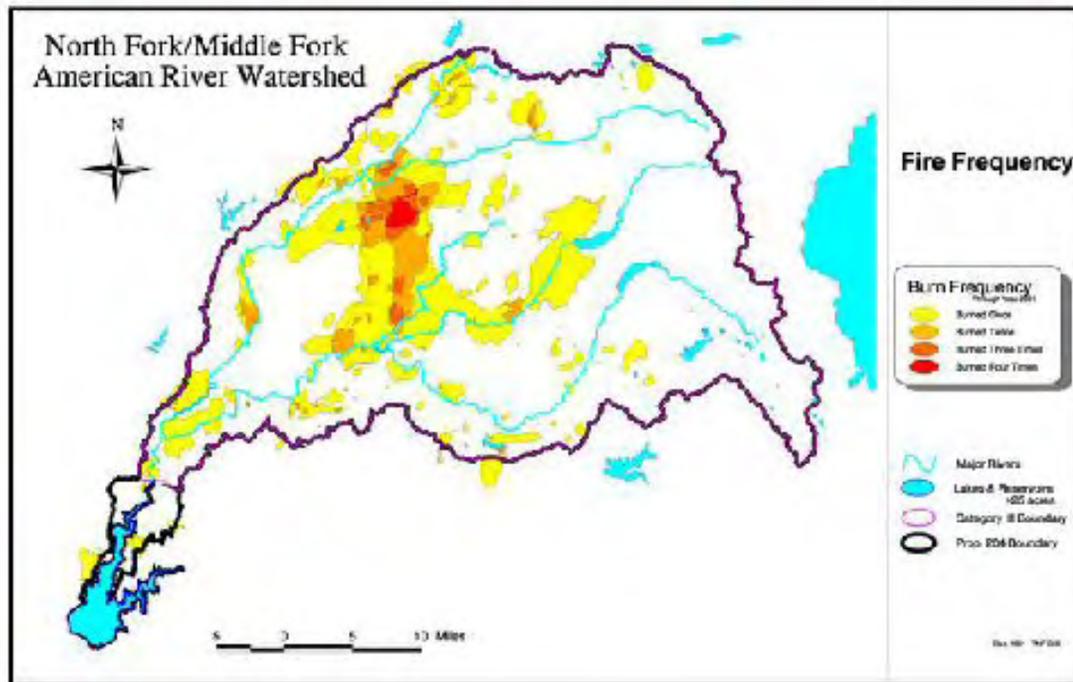
[Previous slide](#) || [Next slide](#)



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5. Vulnerability to Wildfires



Placer County Public Meetings
December 2004

[Previous slide](#) || [Next slide](#)

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December 2004 Disaster Mitigation Plan

Slide 35

[Previous slide](#)



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5. Vulnerability to Earthquakes

HAZUS-MH Earthquake Scenario Results

Impacts/Earthquake	Eastern Placer County M6.9/Depth 20 miles	Western Placer County M5.7/Depth 5 miles
Potential Bldgs Damaged (Based upon building)	Slight- 4,640 Moderate- 1,525 Extensive- 130 Complete- 22	Slight- 9,264 Moderate- 2,641 Extensive- 304 Complete- 22
Injuries (Based upon 2pm time of occurrence)	Without requiring hospitalization 31 Requiring hospitalization 6 Life Threatening 1 Fatalities 2	Without requiring hospitalization 35 Requiring hospitalization 5 Life Threatening 1 Fatalities 1
Displaced Households Economic Loss	36 Property and Lifetime Damage: \$135.40M	78 Property and Lifetime Damage: \$217.81M
Damage to Schools (Based upon 20 buildings)	None with at least moderate damage	None with at least moderate damage
Damage to Hospital	None with at least moderate damage	None with at least moderate damage
Damage to Transportation Systems	None with at least moderate damage	None with at least moderate damage
Households w/out Power & Water Service (Based upon 7,211 households)	No loss of power Water loss @ Day 1: 126 Water loss @ Day 3: 0 Water loss @ Day 7: 0 Water loss @ Day 30: 0	No loss of power No loss of water

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December 2004

35

[Previous slide](#)

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December 2004 Disaster Mitigation Plan

Slide 36

[Previous slide](#) || [Next Slide](#)



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Risk Assessment

Three Components

- Hazard Identification (What can happen here?)
- Vulnerability Assessment (What will be affected?)
- Capability Assessment (How prepared are we?)

Placer County Public Meetings
December 2004

36

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan Slide 37

[Previous slide](#) || [Next Slide](#)



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5. Capability Assessment *How Prepared are We?*

- Conduct an **Inventory of Communities' Existing and Proposed Policies, Programs, and Ordinances** that May Affect its Vulnerability to Hazards
- Evaluate the Effectiveness of Each for Mitigation Purposes. **Note any Gaps, Shortfall or Conflicts Associated with their Design, Enforcement or Implementation.** ID any Special Opportunities.
- **Determine** the Communities' Technical & Fiscal **Abilities to Implement Mitigation Initiatives.** Include Ability to Attract and Leverage Funding

Placer County Public Meetings
December 2004

37

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 38

[Previous slide](#) || [Next Slide](#)



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6. Setting Planning Goals *(Using the Risk Assessment)*

- Areas of extreme vulnerability
- Using estimated losses
- At-risk critical facilities
- At-risk existing facilities
- Goals from other existing Plans

- Other Opportunities
 - At-Risk Areas Slated for Future Development
 - At-Risk Facilities Slated for Repair/Replacement
 - Repetitive Losses
 - Public Education
 - Increased Insurance Coverage

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December 2004

38

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 39

[Previous slide](#) || [Next Slide](#)



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6. Placer County Goals

- **GOAL 1:** Prevent Future Hazard Related Losses of Life and Property
- **GOAL 2:** Increase Public Awareness/Action Of Vulnerability To Hazards
- **GOAL 3:** Improve Community Emergency Services/Management Capability
- **GOAL 4:** Pursue Multi-Objective opportunities Whenever Possible

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December 2004

39

[Previous slide](#) || [Next Slide](#)

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Slide 40

[Previous slide](#) || [Next Slide](#)



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7. Examining Mitigation Alternatives

- Prevention
- Property Protection
- Natural Resource Protection
- Emergency Services
- Structural Projects
- Public Information
- Multi-Hazard Measures & Considerations
- No Action

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December 2004

40

[Previous slide](#) || [Next Slide](#)

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Slide 41

[Previous slide](#) || [Next Slide](#)



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Criteria for Selecting Mitigation Measures (STAPLE/E)

- Will it work?
- Is it cost-beneficial?
- Is it affordable?
- Is it legal?
- Is it fair?
- Do people want it?
- Is funding available?

- Are there administrative burdens?
- Is it politically acceptable to community leaders?
- Is it environmentally sound?

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December 2004

41

[Previous slide](#) || [Next Slide](#)

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Slide 42

[Previous slide](#) || [Next Slide](#)



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Placer County Recommendations

Flood

- Flood Prevention Projects
- Flood Control Projects
- Property Protection
- Infrastructure Protection
- Improvements to Real-Time Flood Warning System
- Emergency Services Enhancements
- Public Awareness/Education

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December 2004

42

[Previous slide](#) || [Next Slide](#)

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Slide 43

[Previous slide](#) || [Next Slide](#)



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Placer County Recommendations

Wildfire

- Community Wildfire Prevention Plans
- Fuels Management
- Defensible Space
- Code/Ordinance Changes
- Emergency Services Enhancements
- Public Awareness/Education

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December 2004

43

[Previous slide](#) || [Next Slide](#)

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Slide 44

[Previous slide](#) || [Next Slide](#)



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Placer County Recommendations

Earthquake

- Emergency Services Enhancements
- Public Awareness/Education

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December 2004

44

[Previous slide](#) || [Next Slide](#)

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Slide 45

[Previous slide](#) || [Next Slide](#)



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8. Draft an Action Plan (Who Does What ... And When)

- Select Measures Using Criteria
- Use Measurable Objectives
- Develop a Schedule
- Create a Budget
- Appoint a Lead Manager for Each Action

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December 2004

45

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 45

[Previous slide](#) || [Next Slide](#)



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December 2004

45

[Previous slide](#) || [Next Slide](#)

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December 2004 Disaster Mitigation Plan

Slide 47 - Final Slide

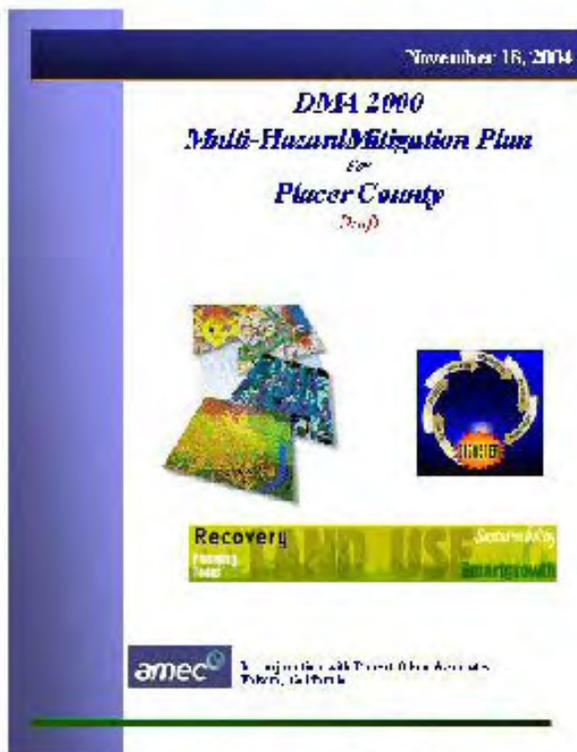
[Previous slide](#)



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Phase IV: Evaluate Effectiveness of the Plan



10. Implement the Plan

- Monitor changes in Vulnerability
- Revise the Plan as necessary

Thank you!

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December 2004

47

[Previous slide](#)

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