APPENDIX D
Disasters Affecting the San Francisco Bay Area
1950 - 2009

The California Office of Emergency Services has compiled two lists of disasters affecting the State, including the San Francisco Bay Area – one for the period from 1950 – 1999, and a second for more recent disasters. The following list of 69 disasters affecting all or part of the nine-county Bay Area during that 60-year period is extracted from those lists (of over 200 disasters statewide). All but nine of these disasters are caused by natural hazards, for an average of almost one natural disaster affecting all or part of the San Francisco Bay Area every year. Since the adoption of the 2005 LHMP, 12 new disasters have been declared. These disasters included winter storms, drought, fire, a levee break, pandemic flu and several manmade disasters. No earthquake disasters were declared during this period.

Individual jurisdictions participating in this plan may have experienced locally-significant emergencies in their history which were not state-declared disasters. These events are described in the individual annexes of each jurisdiction.

<table>
<thead>
<tr>
<th>County</th>
<th>Floods</th>
<th>Weather/Storm</th>
<th>Drought</th>
<th>Wildfire</th>
<th>Energy Shortage</th>
<th>Earthquake</th>
<th>Agricultural Emergency</th>
<th>Civil Disturbance</th>
<th>Landslide</th>
<th>Water Mngmt &amp; Fish Shortage</th>
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2010 Update
April 28, 2009 - Swine Flu
The swine flu disaster was a global outbreak of a new strain of the H1N1 influenza virus. It was first discovered in Veracruz, Mexico. Many Bay Area schools were closed due to concerns about spreading the virus to which young people were more susceptible.

Declared: statewide
Damage: indeterminate

February 27, 2009 - Drought
There was a three year drought of below-average rainfall, low snowmelt runoff, and the largest court-ordered water restriction in state history. The dry conditions damaged crops, deteriorated water quality, and caused extreme fire danger.

Declared: statewide
Damage: $300 million in agricultural revenue loss, potential $3 billion in economic losses over time

May 22, 2008 to May 24, 2008 - Fire
The Summit fire started at about 5:00 am on Thursday May 22, 2008. The location was Summit road and Maymen flats, South of Loma Prieta. Cause is under investigation as of May 30, 2008. Cost as of May 30, 2008 was 16.1 million. 35 residences and 64 outbuildings were destroyed.

Declared: Santa Clara (in addition to Santa Cruz County outside the Bay Area)
Damage: 4,270 acres burned, 31 residences destroyed, 16 injuries reported (source: CalFire)

January 5, 2008 to January 14, 2008 - 2008 Winter Storms
Heavy rainfall resulted in a flood watch for the entire Bay Area and the weather service issued an urban and small stream flood advisory for parts of San Mateo, San Francisco, Marin, Sonoma and Napa counties. In Petaluma (in Sonoma county), some residents were evacuated from their homes. There was also a mudslide that caused the closure of Highway 1 at Devil’s slide.

Declared: San Francisco, City of Oakland (in addition to the City of Grass Valley, and Butte, Colusa, Del Norte, El Dorado, Glenn, Kings, Placer, Sacramento, San Francisco, Sierra, Sutter, Yuba, and Yolo counties outside the Bay Area)
Damage: not available at this time

November 9, 2007 - Oil Spill (COSCO BUSAN)
53,500 US gallons of heavy oil fuel spilled into the San Francisco bay. After the container ship, COSCO Busan operated by Fleet Management Ltd. struck the Delta Tower of the San Francisco-Oakland Bay Bridge in thick fog. As a result of the tides in the San Francisco Bay, the spill spread rapidly and affected a large area of the California North Coast. The East Bay received the majority of the damage, including Richmond.

Declared: Alameda, Contra Costa, Marin, San Francisco, San Mateo, Solano, Sonoma
Damage: 53,000 gallons of oil spilled into San Francisco Bay

April 29, 2007 - Freeway Collapse
A tanker truck exploded on the Oakland to San Francisco Bay Bridge, which caused a connector ramp to collapse. This caused traffic delays, especially for commuters.
Declared:       Alameda, Contra Costa, San Francisco
Damage:        $6 million in roadway damage

**January 12, 2007 - Freeze - DR 1689**
The very cold temperatures in California and the snow accumulation resulted from the Arctic low system pressure dip in the far West. The cold sensitive plants were adversely affected in the San Joaquin Valley, which is the largest citrus producing region in the United States.
Declared:       Santa Clara (in addition to El Dorado, Imperial, San Bernadino, San Diego, Riverside, Los Angeles, Fresno, Kern, Kings, Madera, Merced, Monterey, San Luis Obispo, Santa Barbara, Stanislaus, Tulare, Ventura, and Yuba counties outside the Bay Area)
Federal:       All above, except Santa Clara and El Dorado counties
Damage:        not available at this time

**June 6, 2006 - Water Management and Fish Shortage**
Klamath River Basin Chinook Salmon populations were extremely low because of poor ocean conditions, drought, water management, water quality, water flows, disease, and the elimination of access to historical spawning habitat. This is detrimental to environmental, recreational, commercial, and economic benefits to the people.
Declared:       Marin, San Francisco, San Mateo, Sonoma (in addition to Del Norte, Humboldt, Mendocino, Monterey, Santa Cruz, and Siskiyou counties outside the Bay Area)
Damage:        indeterminate

**May 10, 2006 - Storms**
Roadway damage
Declared:       Alameda, Contra Costa, Marin, Napa, San Mateo, Solano, Sonoma (in addition to Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, El Dorado, Fresno, Humboldt, Kings, Lake, Lassen, Madera, Mendocino, Merced, Monterey, Nevada, Placer, Plumas, Sacramento, San Joaquin, San Luis Obispo, Santa Cruz, Shasta, Sierra, Siskiyou, Stanislaus, Sutter, Trinity, Tulare, Tuolumne, Yolo, and Yuba counties outside the Bay Area)
Damage:        not available at this time

**March 29, 2006 to April 1, 2006 - 2006 Spring Storms - DR 1646**
Severe Storms, Flooding, Landslides, and Mudslides
Declared:       Alameda, Marin, Napa, San Mateo, Sonoma (in addition to Amador, Calaveras, El Dorado, Lake, Madera, Merced, Nevada, Placer, San Joaquin, Santa Cruz, Stanislaus, and Tuolomne counties outside the Bay Area)
Damage:        not available at this time

**December 17, 2005 to January 12, 2006 - ’05-’06 Winter Storms - DR 1628**
Severe Storms, Flooding, Mudslides, and Landslides. Damage estimates are over 100 million. Storms are blamed for two deaths from falling trees. The Town of San Anselmo’s downtown was put 4 feet under water and left coated with mud. Around 50 businesses were damaged and 3 homes nearly wiped out by mudslides.
Declared:       Alameda, Contra Costa, Marin, Napa, San Mateo, Solano, Sonoma
June 3, 2004 - San Joaquin Levee Break (Upper Jones Tract) - DR 1529
Flooded an island in the Sacramento-San Joaquin Delta. 300 people were evacuated. The breach ruined homes, killed animals, and flooded 12,000 acres of crops. The change in water level could mean that farmlands would get less water and salt water from the San Francisco Bay to contaminate the drinking water for many California cities.

Declared: (Outside of Bay Area – provided due to indirect impacts to Bay Area)
Damage: estimated at $121 to $125 million (source: San Joaquin Co. Office of Emergency Services)

September 3, 2000 - Napa Earthquake - DR 1342

Declared: Napa
Casualties: 41 Injuries
Damage: estimated at $15 to $70 million (source: EERI Reconnaissance Report)

February 2, 1998 - El Nino - DR 1203
Severe flooding and landslides. More than 11,000 people were evacuated because of 80 mile per hour winds and floods. Record flooding in San Mateo and Santa Clara. Devastating flash flooding occurred along the Petaluma River in Sonoma county and the Tres Pinos Creek in San Benito county. Severe and widespread landslides triggered by intense rain all winter occurred in many counties, including Alameda, Contra Costa, Sonoma, San Mateo, San Francisco and the Cities of Richmond, San Bruno, Fremont, Oakland Hills, Mill Valley, Bodega Bay, La Honda, Sebastopol, Pacifica, Santa Rosa, San Leandro, Orinda, Napa and Vallejo.


Federal: All above except Kings and Siskiyou counties
Casualties: 17 deaths
Damage: $550 million

December 1996 to January 1997 - January 1997 Floods
300 square miles were flooded including the Yosemite Valley. Over 120,000 people had to be evacuated in northern California. Several levee breaks were reported across the Sacramento and
San Joaquin Valleys. Over 23,000 homes and businesses, agricultural lands, bridges, and roads were damaged.

Declared: Alpine, Amador, Butte, Colusa, Del Norte, El Dorado, Glenn, Humboldt, Lake, Lassen, Modoc, Napa, Nevada, Plumas, Sacramento, San Joaquin, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yuba (1/2/97); Calaveras, Madera, Mono, Monterey, Placer, San Benito, San Luis Obispo, San Mateo, Santa Cruz, Shasta, Stanislaus, Tuolumne, Yolo (1/3/97); Contra Costa, Fresno, Marin, Tulare (1/5/97); Mariposa (1/6/97); Merced, Santa Clara (1/10/97); Alameda, San Francisco (1/19/97); Kings, San Luis Obispo (1/31/97).
Federal: all 48 counties listed above
Casualties: 8 deaths
Damage: $1.8 billion
Add: 300 square miles of land flooded; 23,000 homes, 2,000 businesses damaged or destroyed.

February 1995 - Late Winter Storms
Severe Winter Storms, Flooding, Landslides, Mud Flows. Over 100 stations recorded their greatest 1-day rainfall in history. Most of the storms hit the Sacramento River Basin which resulted in small stream flooding due to drainage system failures.

Declared: FEMA 1046-DR-CA 57 counties (all except Del Norte).
Federal: 1/10/95
Casualties: 17 deaths
Damage: public property-$190.6 million; individual-$122.4 million; business-$46.9 million; highways-$79 million; ag-$651.6 million; TOTAL-approximately $1.1 billion; damage to homes: major-1,322; minor-2,299; destroyed-267

January 1995 – Severe Winter Storms
Severe Winter Storms, Flooding, Landslides, Mud Flows. Over 100 stations recorded their greatest 1-day rainfall in history. Most of the storms hit the Sacramento River Basin which resulted in small stream flooding due to drainage system failures.

Declared: FEMA 1044-DR-CA Los Angeles, Orange (1/6/95), Humboldt, Lake, Sonoma (1/9/95), Butte, Colusa, Contra Costa, Del Norte, Glenn, Kern, Lassen, Mendocino, Modoc, Monterey, Napa, Placer, Plumas, San Luis Obispo, Santa Barbara, Santa Clara, Santa Cruz, Tehama, Ventura, Yolo, Yuba (1/10/95), Alpine, Amador, Nevada, Riverside, Sacramento, San Bernardino, San Mateo, Shasta, Sutter, Trinity (1/11/95), San Diego (1/13/95), Alameda, Marin (1/14/95), Fresno, Kings (1/17/95), El Dorado (2/15/95), Madera, Solano (2/17/95), Siskiyou (3/14/95)
Federal: 1044 (1/13/95)
Casualties: 11 deaths
Damage: public-$299.6 million; individual-$128.4 million; businesses $58.4 million; highways-$158 million; ag-$97 million; TOTAL-$741.4 million; damage to homes: major-1,883; minor-4, 179; destroyed-370.
December 1992 - Late Winter Storms
Snow, rain, and high winds
Declared: FEMA 979-DR-CA Alpine, Los Angeles (2/19/93), Humboldt, Napa, Santa Barbara, Culver City and the City of Los Angeles (2/8/93, for event beginning 1/25/93), Contra Costa, Mendocino, Sonoma (1/25/93, for event beginning 1/25/93), Fresno, Imperial, Madera, Monterey, San Bernardino, Sierra, Tehama, Trinity, and Tulare (1/21/93, for event beginning 1/19/93), Modoc, Orange, Riverside (1/19/93, for event beginning 1/15/93), Lassen, Siskiyou (1/15/93, for event beginning 1/13/93), Plumas (1/13/93, for event beginning 1/12/93), San Diego (1/7/93, for event beginning 1/7/93)
Federal: 1/15/93
Casualties: 20 deaths, 10 injuries
Damage: public property-$32,215, $600 million

October 1991 - East Bay Hills Fire
Large urban fire that occurred on the hillsides of northern Oakland and southeastern Berkeley. It destroyed 1,520 acres. The fire started from an incompletely extinguished grass fire.
Declared: Alameda County, 10/20/91
Federal: 919 (10/22/91)
Casualties: 25 deaths, 150 injuries
Damage: $1.7 billion; 3,354 family dwellings and 456 apartments destroyed

Early December 1990 - Freeze
Very cold air blew through the San Joaquin Valley, east through the Coachella and Imperial valleys, and down the coastal valleys of the Santa Paula district. The freeze caused joblessness and hunger among farm workers.
Declared: FEMA 894-DR-CA Santa Cruz (12/28/90), Fresno, Glenn, Imperial, Kern, Mendocino, Monterey, Riverside, San Benito, San Bernardino, San Diego, San Mateo, Santa Barbara, Santa Clara, Solano, Sonoma, Tulare, Ventura (1/11/91), Alameda, Butte, Colusa, Los Angeles, Madera, Marin, Merced, Napa, San Joaquin, San Luis Obispo, Sutter, Yolo, Yuba (1/18/91), Stanislaus, Tehama (2/14/91, beginning 12/19/90)
Federal: 2/11/91
Damage: public buildings-$2,330,353; utilities-$1,614,040; crop damage-$852,385,282; TOTAL-$856,329,675; 500 broken pipes, affecting 5,400 homes

October 17, 1989 - Loma Prieta Earthquake
Magnitude 7.1. 12,000 homes and 2,600 businesses were damaged. Most severe damage in Oakland and San Francisco. Part of the San Francisco Bay Bridge collapsed. The Cypress Street Viaduct of Interstate 880 in West Oakland collapsed killing 42 and injuring many more.
Declared: FEMA 845-DR-CA Alameda, Monterey, San Benito, San Mateo, Santa Clara, Santa Cruz, San Francisco (10/18/89), Contra Costa, Marin, City of Isleton (10/23/89), City of Tracy, Solano (10/30/89)
Federal: 10/18/89
Casualties: 63 deaths, 3,757 injuries (10/18/89)
Damage: Alameda $1,479,104,500, Contra Costa $25 million, Monterey $108 million, San Benito $103.55 million, San Francisco $2 billion, San Mateo $292,941,001, Santa Clara $727.7 million, Santa Cruz $1.526 million, $500 million to $1 billion damage in roads and bridges, $20 million in state government buildings. Total: $5.9 billion; 23,408 homes damaged, 3,530 businesses damaged, 1,018 homes destroyed, 366 businesses destroyed.

**August 1989 - Mediterranean Fruit Fly**
Declared: Santa Clara (9/6/89)
Federal: not declared
Damage: not applicable—damage was avoided

**September 1988 - Fires (49er, Miller, and Fern)**
Federal: 9/13/88
Casualties: no deaths
Damage: public-$31,247,534; business-$2,533,100; private-$18,033,800; TOTAL-$31,247,534; 238 homes destroyed, 41 homes damaged; 29 businesses destroyed

**Early February 1986 - Storms**
Rains, winds, flooding, and mud slides
Declared: FEMA 758-DR-CA Humboldt, Napa, Sonoma (2/18/86), Glenn, Lake, Marin, Modoc, Sacramento, Santa Clara, Santa Cruz, Solano, Yuba (2/19/86), Alpine, Amador, Butte, Calaveras, Colusa, El Dorado, Lassen, Mendocino, Nevada, Placer, Plumas, San Joaquin, Sierra, Sutter, Tehama, Tuolumne, Yolo (2/20/86), Fresno, Madera, San Mateo (2/26/86), Alameda, Contra Costa, Del Norte, Trinity (3/4/86), Mono, San Benito, Shasta (3/12/86)
Federal: 2/18/86
Casualties: 13 deaths, 67 injuries
Damage: public-$157,987,493; private-$249,551,411; TOTAL-$407,538,904; 12,447 homes damaged; 1,382 homes destroyed; 967 businesses damaged; 185 businesses destroyed

**June 1985 - Statewide Fires**
Declared: FEMA 739-DR-CA San Diego (7/1/85), City of Los Angeles (7/3/85), San Luis Obispo (7/8/85), Monterey, Santa Clara, Santa Cruz (7/9/85), Ventura (7/11/85)
Federal: 4/25/84
Casualties: 3 deaths, 470 injured (124 civilians, 346 firefighters)
Damage: public-$34,751,400; private-$30,094,464; TOTAL-$64,845,864; 375,000+ acres, 215 homes destroyed; 131 homes and businesses damaged; 71 miscellaneous structures and vehicles destroyed

**April 1984 - Morgan Hill Earthquake**
Magnitude 6.2. Near Mt. Hamilton, 16 km east of San Jose. Houses fell off foundations into
stream banks. Over 550 buildings in Santa Clara County were reported to have received at least
minor damage. Most damage occurred in the Jackson Oaks subdivision east of Morgan Hill. The
earthquake was felt from Bakersfield to Sacramento and from San Francisco to Reno.

Declared: Santa Clara
Federal: FEMA 4043-EM-CA (4/25//84
Casualties: no deaths, 27 injuries
Damage: public-$365,000; business-$1.7 million; private-$5.2 million; TOTAL-$7.265
million

December 1983 - Levee Failure, High Winds, High Tides, Floods, Storms, Wind
Driven Water
Declared: Contra Costa (12/9/83), Alameda (1/18/84)
Federal: not declared
Damage: public-$7,240,785; private-$2.669 million; agricultural-$1 million; TOTAL-$10,909,785

Winter '82-'83 - Winter Storms
Heavy rains, high winds, flooding, levee breaks
Declared: FEMA 682-DR--CA Contra Costa, San Joaquin, Sacramento (12/8/82), Marin,
San Mateo, Los Angeles, San Diego (1/27/83), Alameda, Orange, San Benito,
Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sonoma, Ventura, Trinity
(1/31/83), Colusa, Lake, Mendocino, Monterey, San Luis Obispo, Solano, Yolo
(2/7/83), Butte, Glenn, Kern, Kings, San Bernardino, Sutter Tehama, Merced
(3/3/83), Del Norte, Fresno, Madera, Napa, Placer, Riverside, Stanislaus, Tulare
(3/15/83), Humboldt, Mariposa, Nevada, Yuba (3/21/83)
Federal: 2/9/83
Damage: public-$151,185,870; private-$158,641,170; agricultural-$213,789,992; TOTAL-$523,617,032

December 1982 - High Tides, Strong Winds, and Rains
Declared: Contra Costa, Sacramento, San Joaquin (12/8/82)
Federal: not declared
Damage: public-$5,313,198; private-$1,651,800; TOTAL-$6,964,998

October 1982 - Rains Causing Agricultural Losses
Declared: Fresno, Madera, Merced, Monterey, Kern, Tulare, Sacramento, San Joaquin,
Solano, Stanislaus, Yolo (10/26/82)
Federal: not declared
Damage: agricultural $345,195,974

January 1982 – Winter Storms
Heavy winds, rain, flooding, and mud slides
Declared: FEMA 651-DR-CA Alameda, Santa Clara, Solano, San Joaquin (1/9/82), Contra
Costa, Humboldt, Marin, San Mateo, Santa Cruz, Sonoma (1/5/82)
Federal: 1/7/82
Casualties: 33 dead, 481 injured
Damage: public-$101.400 million; private-$172.450 million; TOTAL-$273.850 million; 256 homes and 41 businesses destroyed, 6259 homes and 1276 businesses damaged.

**June 1981 - Atlas Peak Fire**
Declared: Napa (6/24/81)
Federal: not declared
Casualties: no deaths
Damage: private-$11 million; watershed-$20 million; TOTAL-$31 million; 23,000 acres burned, 69 structures destroyed

**Summer ’81- Mediterranean Fruit Fly Infestation**
Declared: Contra Costa (9/25/81), Los Angeles (8/25/81), San Benito (8/25/81), Stanislaus (8/14/81), Santa Cruz (8/13/81), San Mateo (8/8/81)
Federal: not declared
Damage: $22 million

**March 1980 - Storms**
Rain, winds, mud slides, and flooding
Declared: Stanislaus, Monterey, Solano, Santa Cruz (3/5/80)
Federal: not declared
Damage: *include figures from 2/82. public-$164,990,642; private-$75,755,500; agricultural-$75,894,675; TOTAL-$316,640,817. These four counties proclaimed in Feb. 1982 but were not included in the Presidential declaration.

**January 1980 - Delta Levee Break**
A 350-foot section of a dirt levee gave way flooding crops and more than a 20 houses and 50 barns, forcing 270 people to evacuate. The saltwater threatened the freshwater fish and water supplies. Rain, high tides, strong winds, and flooding (Holland and Webb Levee breaks)
Declared: FEMA 3078-EM-CA Contra Costa, Sacramento, San Joaquin (1/23/80)
Federal: 1/23/80
Damage: public-$11,158,700; private-$1,479,500; agricultural-$3,887,195; TOTAL-$17,388,013

**1979 - Gasoline Shortage Emergency**
After OAPEC declared an embargo on the U.S., there was a shortage of gasoline. Lines stretched out for blocks at gas stations and often ran out.
Sonoma, Orange, Santa Clara, Ventura (5/8/79)

Federal: not declared
Damage: not applicable

1976 - Drought
1976 and 1977 were the two driest years in California’s history. The drought was most severe in the northern two-thirds of the State.

Declared: Alpine, Calaveras, Colusa, Fresno, Glenn, Madera, Merced, San Diego, San Joaquin, Solano, Stanislaus, Sutter, Tuolumne (2/9/76), Alameda, Butte, Contra Costa, Kings, Los Angeles, Riverside, San Luis Obispo, Tulare, Yolo (2/13/76), Amador, Monterey, Napa, Nevada, San Benito, San Bernardino, Tehama (2/24/76), San Mateo (3/26/76), Marin (7/6/76)

Federal: not declared
Damage: 1976-$888.5 million; 1977-$1.775 billion; TOTAL-$2.664 billion

March 1974 - Gasoline Purchasing Problems
After OAPEC declared an embargo on the U.S., there was a shortage of gasoline. Lines stretched out for blocks at gas stations and often ran out.

Declared: Alameda, Contra Costa, Los Angeles, Orange, Riverside, San Mateo, Solano (2/28/74), Santa Clara (3/4/74), Ventura (3/10/74)

Federal: not declared
Damage: not applicable

May 1973 - Eucalyptus Tree Freeze
Declared: Alameda, Contra Costa (4/4/73)

Federal: 5/25/73
Damage: removal of approx. 2 million dead trees—$8-10 million

April 1973 - Storms and Floods
Declared: City of Pacifica—San Mateo (4/11/73) (Tax Relief)

Federal: not declared
Damage: public-$450,000; private-$250,000; TOTAL-$700,000

February 1973 - Storms And Floods
Declared: Colusa, Glenn, Napa, Placer, Sutter, Yuba (2/28/73)

Federal: not declared
Damage: public-$1.357 million; private-$507,000; TOTAL-$1.864 million

January 1973 - Coastal Flooding
Heavy rains, winds, floods, and tidal action
Declared: OEP 364-DR-CA Marin, San Luis Obispo (1/23/73), City of South San Francisco (San Mateo County 1/30/73), Santa Barbara, Solano (2/8/73), Ventura (2/28/73)

Federal: 2/3/73
Damage: public-$5,291,350; private-$12,706,900; TOTAL-$17,998,250
1973 - Drought Conditions
Declared: Glenn, San Benito, Santa Clara (7/3/73)
Federal: not declared
Damage: agricultural loss-$8 million

Spring '72 - Freeze and Severe Weather Conditions
Declared: Fresno, Kings, Tulare, Merced, Kern, Madera, San Benito, Stanislaus, El Dorado, Tehama, Placer, Nevada, San Joaquin (4/17/72), Colusa (5/22/72), Siskiyou, Modoc (5/22/72), Santa Clara (5/31/72)
Federal: not declared
Damage: crop loss-$111,517,2604/10/72

Fall '70 - Statewide Fires
Declared: OEP 295-DR-CA City of Oakland (Alameda County 9/24/70), Los Angeles, Ventura, San Diego (9/28/70), Kern (10/1/70), San Bernardino (10/2/70), Monterey, Riverside (10/20/70), San Bernardino (11/14/70)
Federal: 9/29/70 amended 11/25/70 to include San Bernardino
Casualties: 19 deaths
Damage: public-$52,862,000; watershed-$24,826,000; private-$145,923,000 TOTAL-$223,611,000; 576,508 acres, 722 bldgs. San Bernardino-53,100 acres, 54 bldgs.

April 1970 - Storms And Floods
Declared: Contra Costa (4/10/70) (Tax Relief)
Federal: not declared
Damage: not available

Early March 1970 - Freezing Conditions
Declared: Ag. area of Napa (5/1/70), Ag. area of Sonoma (5/19/70), Ag. area of Mendocino (6/8/70), Ag. community of San Joaquin (6/10/70), Ag. community of Lake (7/24/70)
Federal: not declared
Damage: Agricultural loss $19,749,200

February 10, 1970 - Slide Damage Caused by Heavy Rains and Storms
Severe storms, flooding
Declared: City of Oakland (Alameda County) 2/10/70 (Tax Relief)
Federal: not declared
Damage: $11.5 million

Winter '70 - Northern California Flooding
Heavy Winds, Storms, Flooding
Declared: OEP 283-DR-CA Butte, Colusa, Glenn, Lake, Lassen, Marin, Modoc, Plumas, Shasta, Siskiyou, Tehama, Trinity (1/27/70), Sutter, Yuba (2/3/70), Del Norte (2/10/70), Alameda, El Dorado, Mendocino (3/2/70)
Federal: 2/16/70
Damage: public-$19,659,078; private-$7,998,400; TOTAL-$27,657,478

2010 Update
December 1969 - Riots
Declared: City of Berkeley (Alameda County) (2/5/69)
Federal: not declared
Casualties: no deaths, 20 injuries
Damage: not available

Winter '69 - Storms
Storms, flooding
Declared: OEP 253-DR-CA Los Angeles, San Luis Obispo (1/23/69), Fresno, Inyo, Riverside, San Bernardino, Santa Barbara, Tulare, Ventura (1/25/69), Amador, El Dorado, Kern, Kings, Madera, Modoc, Mono, Monterey, Orange, Placer, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Tuolumne (1/28/69), Mariposa, Merced (1/29/69), Calaveras, San Benito, Sierra (2/8/69), Contra Costa, Humboldt, Mendocino, Sonoma (2/10/69), Plumas, Tehama, Yuba (2/16/69), Butte, Marin, Yolo (3/12/69)
Federal: 1/26/69
Casualties: 47 dead, 161 injured
Damage: public-$185 million; private-$115 million; TOTAL-$300 million

August 1968 - Riots and Other Conditions
Declared: City of Richmond (Contra Costa) (8/2/68)
Federal: not declared
Damage: not applicable (worker strike)

December 1966 - Earthslides
Declared: Redwood City (San Mateo County) (12/16/66)
Federal: not declared
Damage: private-$100,000

9/66 - Riots
A riot broke out in San Francisco's Hunters Point, a black neighborhood, when a white police officer shot and killed a seventeen-year-old black as he fled the scene of a stolen car. A few hours after calling in the National Guard and Highway Patrol, the police responded to alleged gunfire by opening up on the Bayview Community Center and surrounding buildings. After riddling it with hundreds of bullets the police found no gunmen or weapons but only several pre-teen kids huddling in the corner.

Declared: San Francisco (9/27/66)
Federal: not declared
Casualties: no deaths, 42 injuries
Damage: not available

2010 Update D - 12 Multi-Jurisdictional Local Hazard Mitigation Plan
September 1965 - Major and Widespread Fires
Declared: Marin, Napa, Placer, Solano, Sonoma (9/18/65)
Federal: not declared
Casualties: no deaths
Damage: not available; 113,766 acres and 41 bldgs. Destroyed

Winter '64-'65 - Late Winter Storms
Abnormally heavy and continuous rainfall and windstorm
Declared: OEP 183-DR-CA Del Norte, Humboldt, Shasta, Mendocino (12/22/64), Colusa, Glenn, Lassen, Plumas, Sierra, Siskiyou, Sonoma, Sutter, Tehama, Trinity (12/23/64), Amador, Butte, El Dorado, Modoc, Nevada, Placer, Yuba (12/28/64), Alpine, Lake, Sacramento, Yolo (1/5/65), Marin (1/14/65)
Federal: 12/29/64
Damage: public-$85.327 million; private-$127.822 million; TOTAL-$213.149 million

September 1964 - Tsunami Caused by March 1964 Earthquake in Alaska
This earthquake generated a tsunami with waves between 10 and 20 feet high along parts of the California, Oregon and Washington coasts. The cost of damages in California was $32 million (calculated in 1983 dollars), with the bulk of the costs incurred in Crescent City where 11 of the 13 California deaths occurred. A Tsunami warning was issued for Marin County for this event, but no significant damage was caused. Strong Currents from the tsunami caused boats and piers at marinas in Marin County to crash into other crafts.
Declared: Marin (9/15/64) (Tax Relief)
Federal: not declared
Damage: not applicable, only costs were for mitigation

September 1964 - Major and Widespread Fires and Excessively High Winds
Declared: Napa (9/22/64), Sonoma (9/23/64), Santa Barbara (9/25/64)
Federal: not declared
Damage: private-$3.5 million; watershed-$13 million; TOTAL-$16.5 million
Note: By special appropriation, Congress approved $860,000 for Santa Barbara County. The USDA, through Forest Service programs, spent $1.044 million for seeding and reestablishing dams in these counties.

February 1963 - Flood and Rainstorms
Declared: Alpine, Nevada, Placer, Plumas, Sierra (2/7/63), Amador, Colusa, El Dorado, Glenn, Lake, Lassen, Tehama, Santa Clara, Santa Cruz, Siskiyou, Yolo, Tulare (2/26/63), Mono, Trinity (2/29/63), Yuba (4/22/63)
Federal: 145 (2/25/63), amended 1/30/63 to include Orange County and Redondo Beach
Damage: not available

February 1963 - Abnormally Heavy and Continuous Rainfall
Declared: Northern California (boundaries of San Luis Obispo, Ventura, Los Angeles, and San Bernardino counties to the Oregon State line) (2/14/64)
Federal: not declared
Damage: not available
Fall 1962 - Flood and Rainstorms
Declared: Alameda, Butte, Contra Costa, Modoc, Napa, San Mateo, Sierra, Sutter, Yuba (10/17/62), Placer (10/25/62), Trinity (10/30/62), Lassen (11/4/62)
Federal: 138 (10/24/62) amended to include Placer, Trinity, and Lassen Counties
Damage: $4 million+

September 1962 - Fires and Explosions
Declared: City of San Leandro (Alameda County) (9/14/62)
Federal: not declared
Casualties: 1 death, 12 injuries
Damage: $500,000

September 1961 - Widespread Fires
Federal: not declared
Damage: public-$243,000; private-$4,183,098; watershed-$1,270,715; TOTAL-$5,696,813

September 1959 - Unseasonal and Heavy Rainfall
Declared: Tokay grape producing areas of Northern California (requested by Dept. of Agriculture) (9/19/59)
Federal: not declared
Casualties: 2 deaths
Damage: $100,000

April 1958 - Storm and Flood Damage
Declared: statewide (4/2/58)
Federal: 82 (4/4/58)
Casualties: 13 deaths, several injuries
Damage: $20 million, plus $4 million agricultural

February 1958 - Storm and Flood Damage
Declared: Northern California (Southern boundaries of Santa Cruz, Santa Clara, Stanislaus, Tuolumne, Alpine Counties to the Oregon border) CDO 58-03 (2/26/58)
Federal: not declared
Damage: not available

May 1957 - Unseasonal and Heavy Rainfall
Declared: State of Emergency—cherry producing areas of Northern California (requested by Department of Agriculture) 5/20/57
Federal: not declared
Casualties: no deaths, 2 injuries
Damage: $6 million in agricultural losses
December 1950 - Floods
Declared: statewide CD 47-DR-CA (12/22/55)
Federal:  12/23/55
Casualties: 74 deaths
Damage:  $200 million

November 1950 - Floods
Declared: statewide CA OCD 50-01(11/21/50)
Federal:  not declared
Casualties: 9 deaths
Damage:  Sacramento River Basin above Delta-$4,983,000; Sacramento-San Joaquin Delta- $4,550,000; San Joaquin River Basin-Consumnes River to Upper San Joaquin River-$11,460,000; Upper San Joaquin River Basin-Kings River to Kern River-$11,190,000; TOTAL-$32,183,000

Source: FEMA: California State Disaster History and CALEMA: Emergency & Disaster Proclamations and Executive Orders by Date (November 2003-Current)