

Attachment D

1. Cover Sheet
2. Table of Contents
3. Notes
4. Summary of Available Flood Types, Flood History, and Flood Hazard Exposure (58 Maps)
5. Summary of Available Flood Infrastructure Information (58 Maps)

Attachment D
Summary of Exposure and Infrastructure Inventory by County

Mar 22, 2013



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County	#	County	#	County	#	County	#
Alameda County	D-1 D-2	Lake County	D-33 D-44	Riverside County	D-65 D-66	Sonoma County	D-97 D-98
Alpine County	D-3 D-4	Lassen County	D-35 D-36	Sacramento County	D-67 D-68	Stanislaus County	D-99 D-100
Amador County	D-5 D-6	Los Angeles County	D-37 D-38	San Benito County	D-69 D-70	Sutter	D-101 D-102
Butte County	D-7 D-8	Madera County	D-39 D-40	San Bernardino County	D-71 D-72	Tehama County	D-103 D-104
Calaveras County	D-9 D-10	Marin County	D-41 D-42	San Diego County	D-73 D-74	Trinity County	D-105 D-106
Colusa County	D-11 D-12	Mariposa County	D-43 D-44	San Francisco County	D-75 D-76	Tulare County	D-107 D-108
Contra Costa County	D-13 D-14	Mendocino County	D-45 D-46	San Joaquin County	D-77 D-78	Tuolumne County	D-109 D-110
Del Norte County	D-15 D-16	Merced County	D-47 D-48	San Luis Obispo County	D-79 D-80	Ventura County	D-111 D-112
El Dorado County	D-17 D-18	Modoc County	D-49 D-50	San Mateo County	D-81 D-82	Yolo County	D-113 D-114
Fresno County	D-19 D-20	Mono County	D-51 D-52	Santa Barbara County	D-83 D-84	Yuba County	D-115 D-116
Glenn County	D-21 D-22	Monterey County	D-53 D-54	Santa Clara County	D-85 D-86		
Humboldt County	D-23 D-24	Napa County	D-55 D-56	Santa Cruz County	D-87 D-88		
Imperial County	D-25 D-26	Nevada County	D-57 D-58	Shasta County	D-89 D-90		
Inyo County	D-27 D-28	Orange County	D-59 D-60	Sierra County	D-91 D-92		
Kern County	D-29 D-30	Placer County	D-61 D-62	Siskiyou County	D-93 D-94		
Kings County	D-31 D-32	Plumas County	D-63 D-64	Solano County	D-95 D-96		

Statewide GIS Data Legend

- Statewide GIS Data:**
- City
 - Populated Place
 - DWR Local Agency Dam
 - DWR Other Dam
 - NFHL Dam or Weir
 - CLD Pump Station
 - CLD Local Agency Levee
 - CLD Other Levee
 - NFHL Levee
 - NFHL Flood Event Structure
 - NFHL Channel
 - NFHL Control Structure
 - NFHL Dike
 - NFHL Retaining Wall
 - Highway
 - Major River
 - Major Water Body
 - 100-yr Floodplain
 - 500-yr Floodplain
 - County

Attachment D - Table of Contents

Table of Contents

Attachment D
Summary of Exposure and Infrastructure
Inventory by County

Mar 22, 2013



Map Contents & Sources of Information

1. Summary of Available Flood Types, Flood History, and Flood Hazard Exposure

100-year and 500-year Floodplains – The displayed floodplains were compiled for the SFMP from the following three sources (500-year floodplains were not available for some remote areas of the State):

1. The CVFPP floodplains, as defined by the CVFPP on October 4, 2011, for the Yolo, East Side, Upper Sacramento, Mariposa, Sutter, and Tisdale bypasses;
2. Floodplains defined (or refined) by USACE flood maps based on ER 1105-2-101 standards;
3. FEMA Flood Insurance Rate Maps (FIRMs).

History of Flooding by Event Year – This is a chronological list of floods of record affecting the county. When available, additional details include dates, flood name, and streams or regions affected. Sources include Agency Interviews, County Hazard Mitigation Plans, the California Water Plan 2009, Alluvial Fan Task Force Study Area Flood History, Taming Natural Disasters Appendix D, and various storm reports.

Types of Flooding – This is a list of common and possible types of flooding within the county.

Flood Hazard Exposure – This is a list of county statistics for land area, population, and structures based on the 2000 census. The quantity and percentage of area, population, structure and land values, and other important facilities exposed to the 100-year and 500-year flood events are also listed. Exposure numbers for acreage are rounded to the nearest 100 acres except where the number is smaller than 100. In such cases, they are rounded to the nearest 10 acres for values between between 10 and 100, and to the nearest 1 acre for values between 1 and 10.

Notes: Based on the source information, no 100-year or 500-year floodplain exists in Alpine County. The San Francisco County floodplain delineation was still in progress at the time it was obtained in the Fall of 2011.

Floodplain delineation in the vicinity of water bodies varies by county. In some counties the floodplain covers the entire body of water, while others include only a buffer along the shoreline. For the purposes of the enclosed maps, lakes and coastal bay layers have been shown on top of the delineated floodplain. Floodplains may have discontinuities at county boundaries.

Disclaimers

1. Information displayed on the maps does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown.
2. The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

2. Summary of Available Flood Infrastructure Information

Summary of Available Flood Infrastructure Information – This is a graphic display of the entire county showing existing flood infrastructure that has been mapped and made available in a Geographic Information System (GIS) format. Note that some of the counties were oriented differently to maximize the size of the county on the map. The following additional information and a legend of corresponding symbols is also provided on the flood infrastructure maps:

1. **Flood Infrastructure GIS Data Received from Agencies** – Infrastructure data provided by local agencies in GIS compatible formats (shapefile and geodatabase) is shown on the maps for the respective counties and is listed with the corresponding map symbol.
2. **Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted** – Infrastructure data provided by local agencies is listed for informational purposes only. This data is not displayed graphically on the maps.
3. **Agencies Contacted as Part of SFMP** – This is a list of those agencies contacted by the information gathering teams.
4. **Statewide GIS Data** – A legend of available statewide GIS data is provided at the bottom of each map. Statewide GIS Data sources include:
 - Cities derived from California Department of Forestry and Fire Protection (CAL FIRE) Incorporated Cities polygons, 2010.
 - Populated Places from Geographic Names Information System (GNIS), US Board on Geographic Names, USGS, 2011.
 - Dams modified from DWR, Bulletin 17-00, 2000. Not all dams are necessarily flood infrastructure as that information is not provided specifically in the Bulletin.
 - Pump Stations and Levees from California Levee Database (CLD), v2.2 r2, 2010.
 - NFHL Dam or Weir, Levee, Flood Event Structure, Channel, Control Structure, Dike and Retaining Wall are from the National Flood Hazard Layer, FEMA, July 2011 or from preliminary countywide DFIRM databases.
 - Rivers and Lakes, modified from Department of Fish Game (DFG) in 2009, previously downloaded from CalAtlas, original publication date not available.
 - Counties and Hillshade from CalAtlas 2009.
 - Highways from TeleAtlas, 2004.

Planned Projects – The planned projects represent information gathered from local, State, and Federal agencies for Federal Fiscal Year 2012. A number of the identified projects do not have cost associated with them.

Definitions/Acronyms

California Levee Database (CLD): The CLD contains data about the centerline of an embankment for controlling rivers, coastal areas, or other water bodies. In creating the CLD, all structures that could hold back water were digitized for flood planning purposes. Some of these structures are not technically levees (such as railroad grades, irrigation canals, etc.). However the information necessary to distinguish these features from actual "levees" is not completely present in the CLD. DWR makes no warranties, representations or guarantees, either expressed or implied, as to the completeness, accuracy or correctness of the data, nor accepts or assumes any liability arising from or for any incorrect, incomplete or misleading data provided pursuant to this request.

National Flood Hazard Layer (NFHL): The NFHL is a computer database that contains the flood hazard map information from FEMA's Flood Map Modernization program. These map data are from Digital Flood Insurance Rate Map (DFIRM) databases and Letters of Map Revision (LOMRs). Relevant NFHL flood infrastructure that was not submitted by a local agency and is not included in the CLD or listed in DWR Bulletin 17-00, 2000, is displayed on the maps and legend.

DWR Local Agency Dam: Those dams listed in DWR Bulletin 17-00, 2000, where the maintaining agency listed is one of the agencies contacted during the SFMP information collection efforts.

DWR Other Dam: All other dams listed in DWR Bulletin 17-00, 2000, which are not maintained by one of the agencies contacted during the SFMP information collection efforts.

CLD Local Agency Levee: Those levees within the CLD where the "maintaining agency" attribute is one of the agencies contacted during the SFMP information collection efforts. Note: only approximately 23% of the CLD levee lines have a populated "maintaining agency" attribute.

CLD Other Levee: All other levees in the CLD that either do not have a maintaining agency listed, or the listed agency is not one of the agencies contacted during the SFMP information collection efforts.

County Maps:

1. Summary of Available Flood Types, Flood History, and Flood Hazard Exposure (58 Maps)

2. Summary of Available Flood Infrastructure Information (58 Maps)

Attachment D Summary of Exposure and Infrastructure Inventory by County

Mar 22, 2013



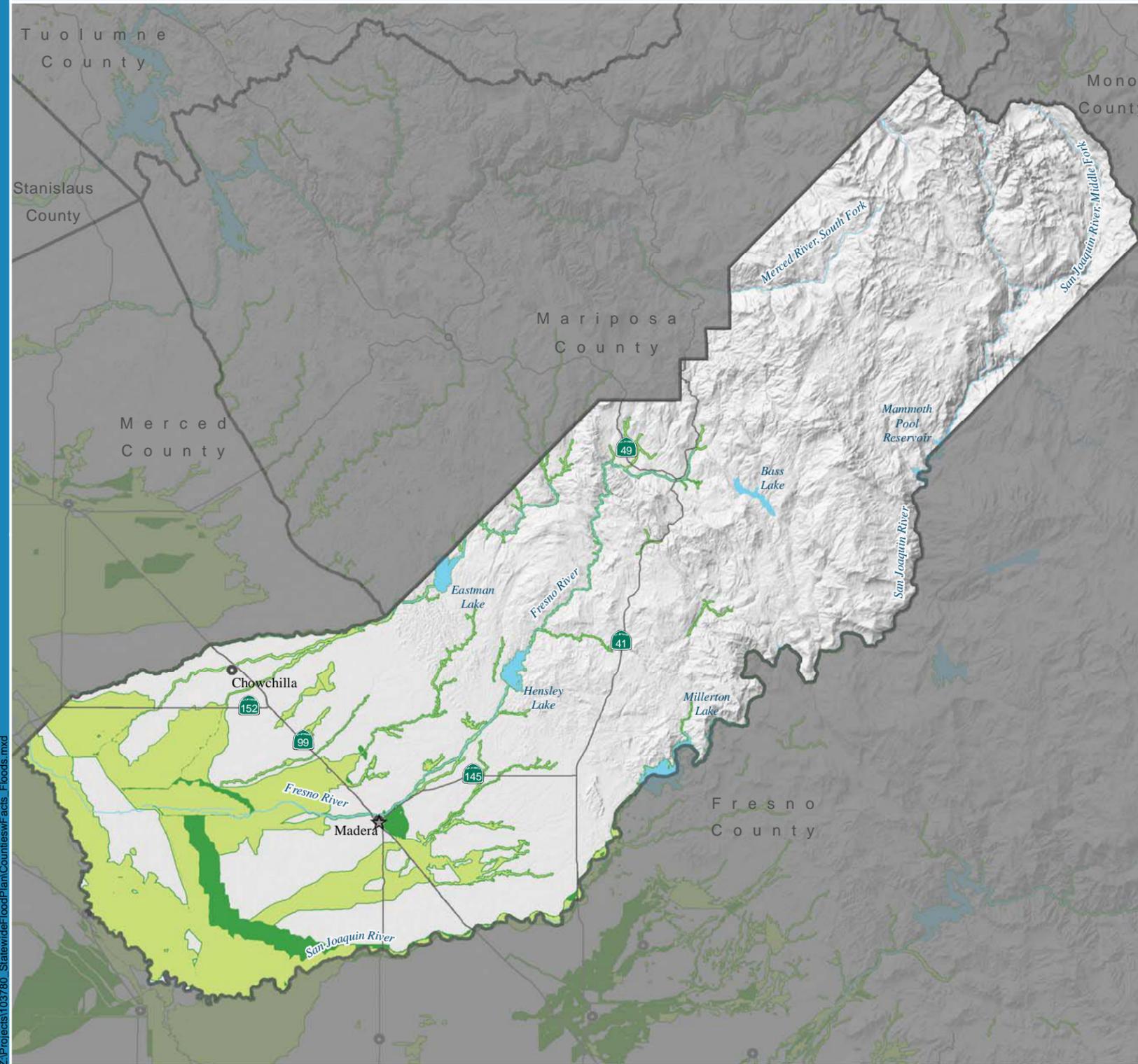
US Army Corps
of Engineers®



STATEWIDE FLOOD
MANAGEMENT
PLANNING PROGRAM



100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862 Winter, The Great Flood
- 1867 December, Fresno River
- 1911 Fresno River
- 1938 February-March, Fresno River
- 1945 Fresno River
- 1950 November-December, Fresno River
- 1955-1956 December-January, 1955 Christmas Flood, Fresno River
- 1958 February-April, Fresno River
- 1962-1963 December-February
- 1964-1965 December-January, Mokelumne River Flood, San Joaquin Basin
- 1968-1969 December-February, Winter '69 Storms, Fresno River
- 1982-1983 December-March, Winter Storms, Fresno River
- 1986 February-March, Fresno River
- 1992 January-February, Fresno River
- 1995 January-April, 1995 Christmas Flood
- 1997 January, Fresno River
- 2006 March 29 - April 1, May 10, Spring Storms
- 2007 October

Flood Hazard Exposure

County Statistics

Total Acreage:	1.4 million
Total Population:	123,106
Total Structures:	42,900
Total Value of Structures and Contents:	\$9.7 billion
Total Agricultural Acreage:	356,548
Total Value of Crops:	\$583.8 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	188,583	208,011
Percent of Area Exposed:	14	15
Population Exposed:	12,235	22,792
Percent of Population Exposed:	10	19
Structures Exposed:	3,292	5,617
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$638.2 million	\$1.1 billion
Exposed Crops (acres):	140,092	155,017
Value of Exposed Crops:	\$229.0 million	\$246.4 million
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	8	18
High Potential Loss Facilities Exposed:	10	10
Lifeline Utilities Exposed:	1	2
Transportation Facilities Exposed:	85	85
Transportation Segments Exposed (miles):	38	45
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	14	14
Total Sensitive Animal Species Exposed:	30	30

Madera County

Types of Flooding

Likely:	Present:
Slow Rise	Engineered Structure Failure
Stormwater	Debris Flow
Flash	

Hydrologic Regions



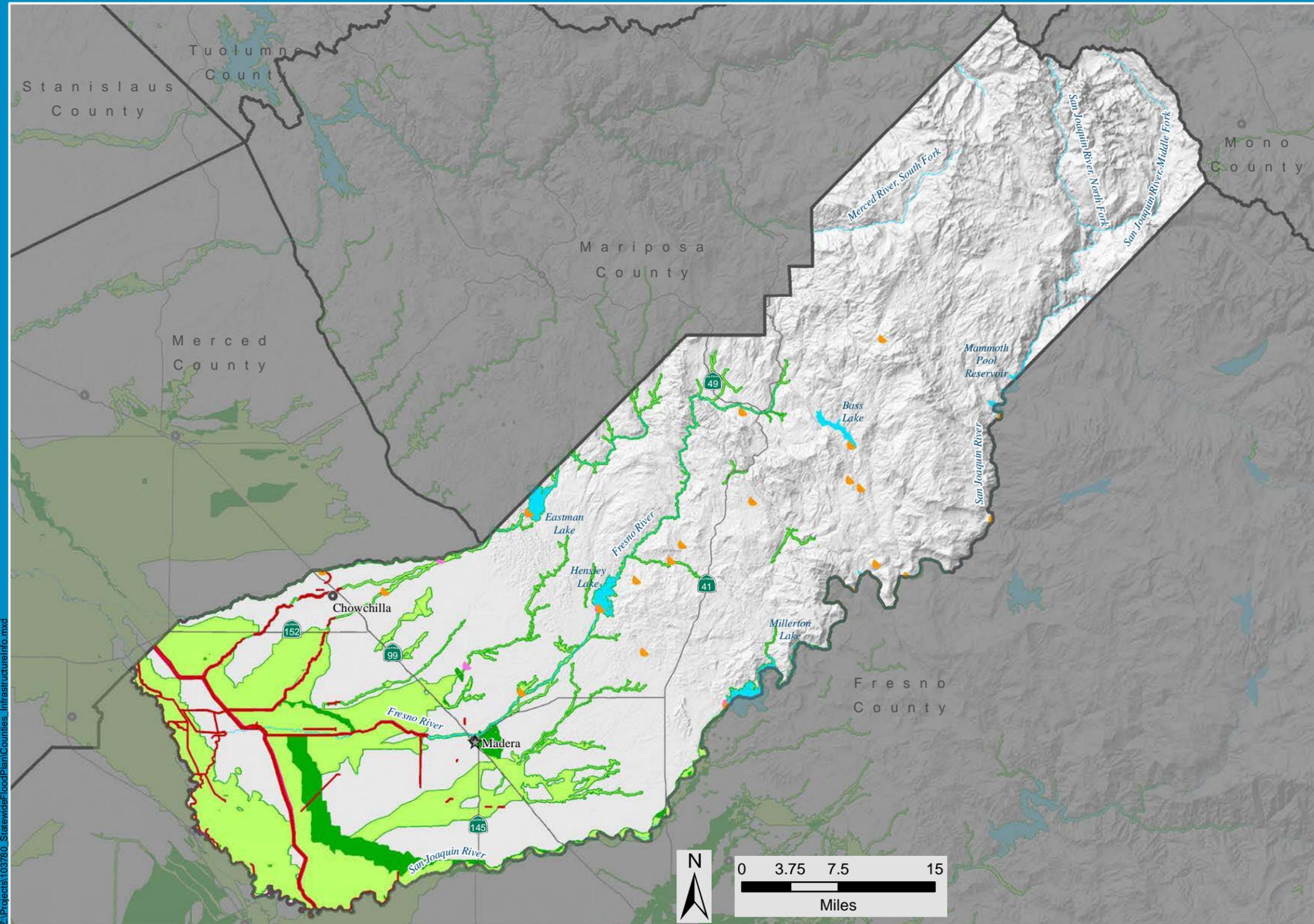
Figure D-39
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Madera County

DRAFT Mar 22, 2013

DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Madera County



Flood Infrastructure GIS Data Received from Agencies Contacted:
 No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
 Levee
 Channel
 Pump Station

Agencies Contacted as Part of SFMP:
 Madera County Flood Control and Water Conservation District

Planned Projects:

Number of Local Projects:	5
Estimated Cost of Local Projects:	\$11.3 million
Number of USACE Projects:	1
Estimated Cost of USACE Projects:	\$8.3 million

Statewide GIS Data Sources:
 Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
 All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Madera County

Statewide GIS Data:

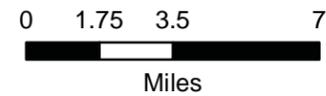
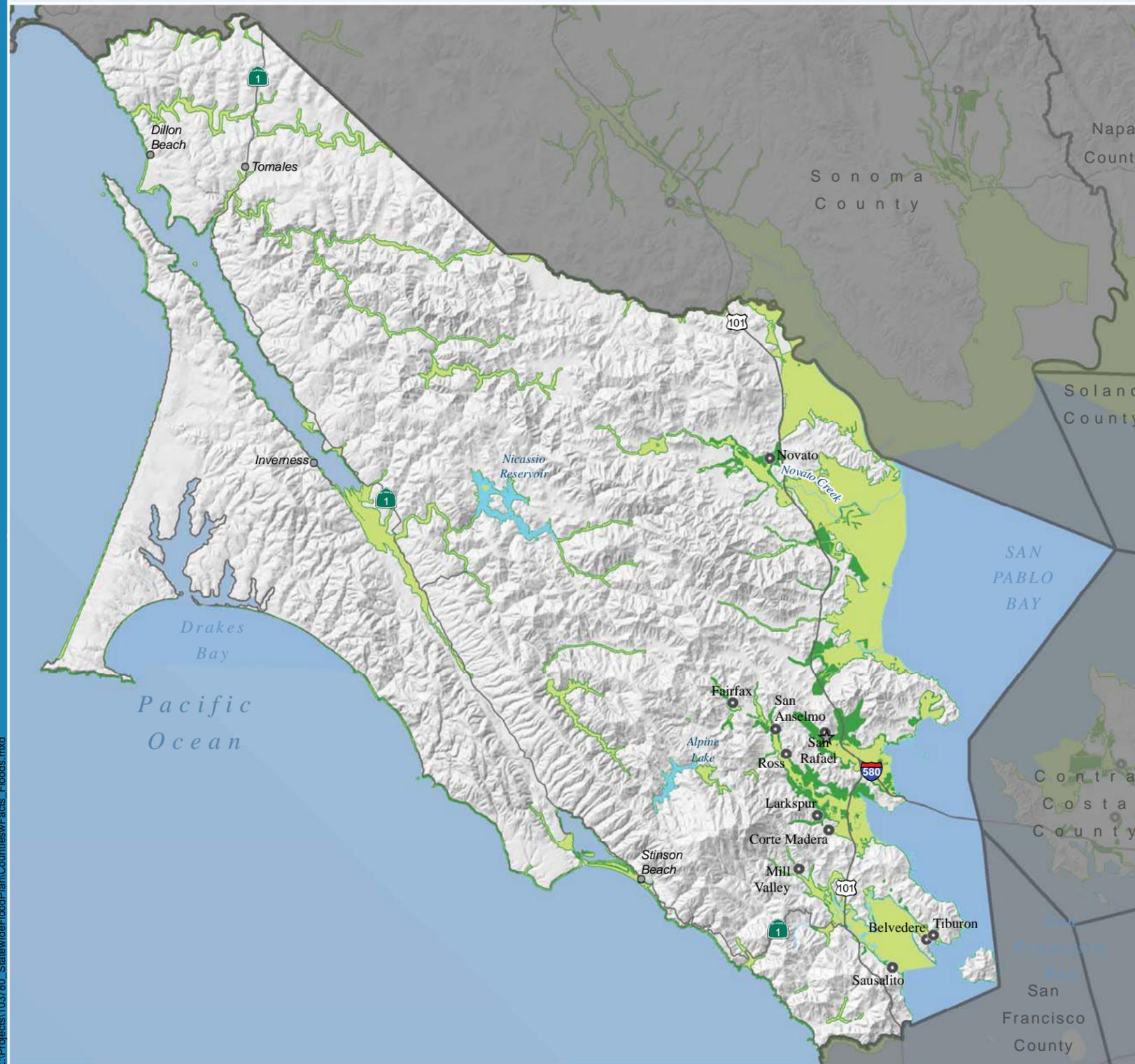
● City	● DWR Local Agency Dam	PS CLD Pump Station	~ NFHL Levee	~ NFHL Control Structure	— Highway	100-yr Floodplain
○ Populated Place	● DWR Other Dam	~ CLD Local Agency Levee	~ NFHL Flood Event Structure	~ NFHL Dike	~ Major River	500-yr Floodplain
	● NFHL Dam or Weir	~ CLD Other Levee	~ NFHL Channel	~ NFHL Retaining Wall	~ Major Water Body	County

Figure D-40
 Summary of Available Flood Infrastructure Information, Madera County

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100-year and 500-year Floodplains



- City
- Populated Place
- Highway
- Major River
- 100-yr Floodplain
- 500-yr Floodplain
- Major Water Body
- County

Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1914** Corte Madera Creek
- 1925** San Anselmo
- 1951** Corte Madera Creek
- 1955-1956** December-January, 1955 Christmas Flood, Novato Creek, Corte Madera, Petaluma, San Rafael, Fairfax
- 1958** February-April, Corte Madera Creek
- 1962** October, Corte Madera Creek
- 1962-1963** December-February
- 1968-1969** December-April, Corte Madera Creek
- 1970** December, Northern California Flooding
- 1973** Januar-February
- 1986** February, St. Valentine's Day Storm, Corte Madera Creek, Fairfax, San Pablo Bay
- 1995** January-March
- 1998** El Niño Floods
- 2005-2006** December-January, New Year's Eve Flood of 2006, Corte Madera Creek,
- 2006** March 29 - April 1, May 10, Spring Storms

Flood Hazard Exposure

County Statistics

Total Acreage:	378,665
Total Population:	247,239
Total Structures:	93,200
Total Value of Structures and Contents:	\$31.8 billion
Total Agricultural Acreage:	6,664
Total Value of Crops:	\$1.6 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	34,604	38,374
Percent of Area Exposed:	9	10
Population Exposed:	39,739	63,380
Percent of Population Exposed:	16	26
Structures Exposed:	13,141	22,147
Value of Exposed Structures and Contents:	\$5.6 billion	\$9.3 billion
Exposed Agricultural Land (acres):	3,963	3,964
Value of Exposed Agricultural Land:	\$677,437	\$679,111
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	23	45
High Potential Loss Facilities Exposed:	3	3
Lifeline Utilities Exposed:	4	6
Transportation Facilities Exposed:	76	94
Transportation Segments Exposed (miles):	28	39
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	70	70
Total Sensitive Animal Species Exposed:	49	51

Marin County

Types of Flooding

Likely:	Present:
Slow Rise	Tsunami
Flash	Engineered Structure Failure
Debris Flow	
Coastal	
Stormwater	

Hydrologic Regions



Figure D-41
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Marin County

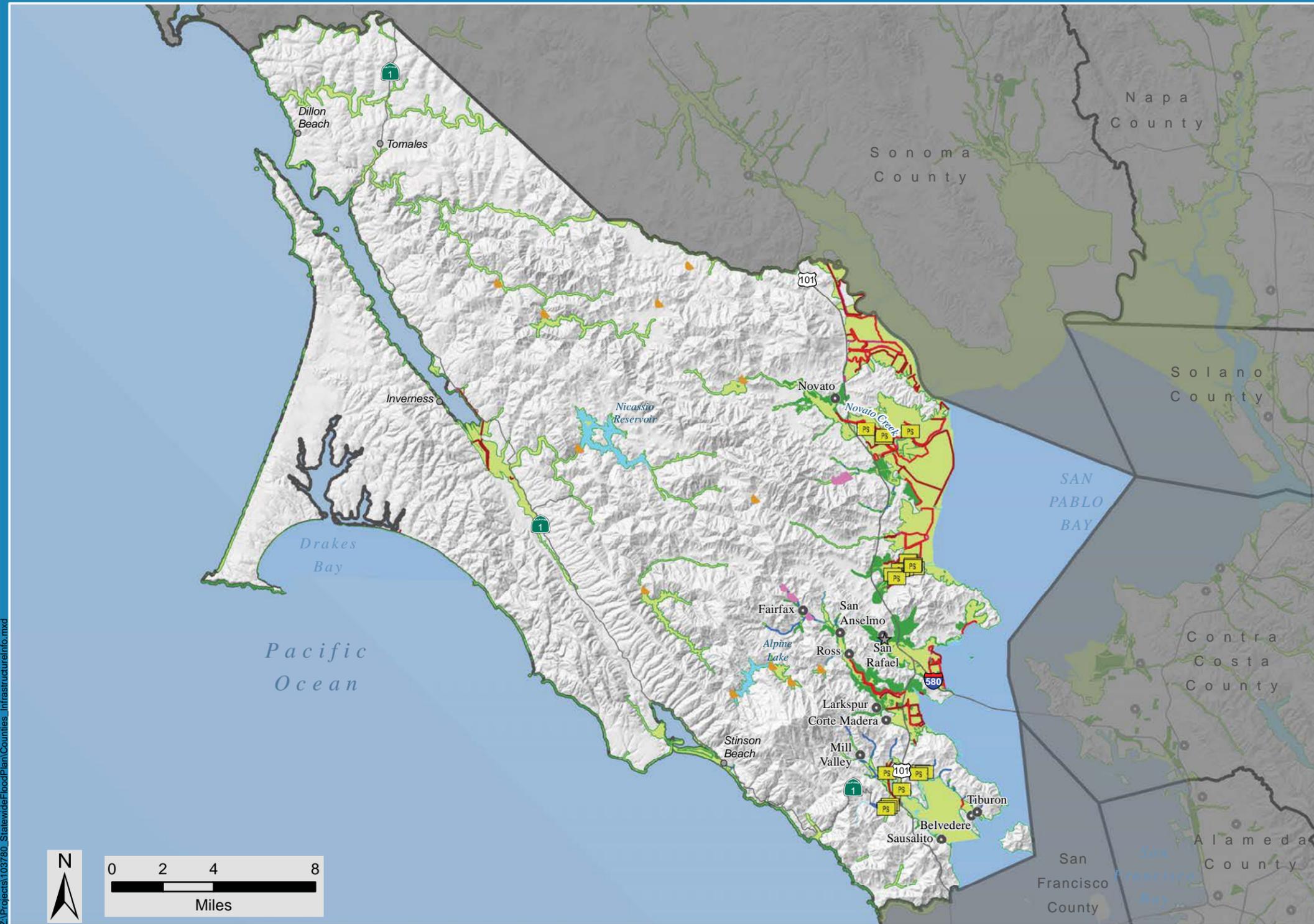
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Mar 22, 2013



Summary of Available Flood Infrastructure Information

Marin County



Flood Infrastructure GIS Data Received from Agencies Contacted:

- PS Pump Station
- Levee

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):

- Channel
- Dam
- Pump Station

Agencies Contacted as Part of SFMP:

- Marin County Flood Control and Water Conservation District
- City of Corte Madera
- City of Mill Valley
- City of San Rafael
- City of Sausalito
- City of Tiburon
- City of Novato

Planned Projects:

Number of Local Projects:	32
Estimated Cost of Local Projects:	\$217.7 million
Number of USACE Projects:	2
Estimated Cost of USACE Projects:	\$37.6 million

Statewide GIS Data Sources:

Cities derived from CAL FIRE incorporated city limit polygons, 2010. Populated Places from GNIS, 2011. Counties from CalAtlas, 2009. Dams modified from DWR, Bulletin 17-00, 2000. CLD layers are from California Levee Database, v2.2 r2, 2010. NFHL layers are from the National Flood Hazard Layer, FEMA, August 2011. Highways from TeleAtlas, 2004. Rivers and Lakes modified from DFG, N/A. Floodplains compiled for SFMP, 2011. All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Marin County

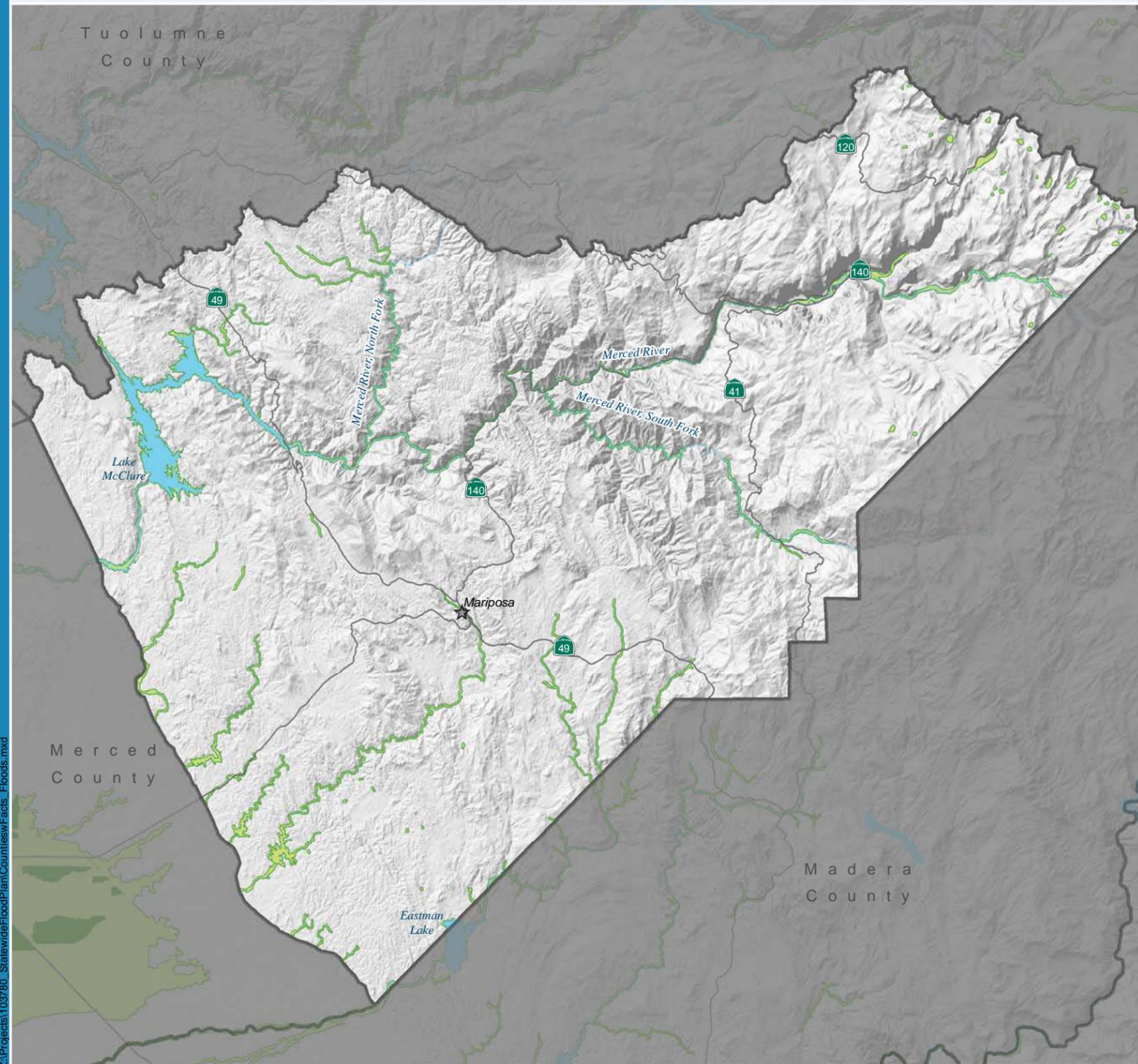
Statewide GIS Data:	DWR Local Agency Dam	CLD Pump Station	NFHL Levee	NFHL Control Structure	Highway	100-yr Floodplain
City	DWR Other Dam	CLD Local Agency Levee	NFHL Flood Event Structure	NFHL Dike	Major River	500-yr Floodplain
Populated Place	NFHL Dam or Weir	CLD Other Levee	NFHL Channel	NFHL Retaining Wall	Major Water Body	County

Figure D-42
Summary of Available Flood Infrastructure Information, Marin County

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100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862 Winter, The Great Flood
- 1867 February
- 1868 March
- 1911 January
- 1955-1956 December-January, 1955 Christmas Flood
- 1958 February-April
- 1962-1963 December-February
- 1968-1969 December-March, Winter '69 Storms, Countywide
- 1982 April
- 1986 February-March, St. Valentine's Day Storm
- 1995 January - March, Severe Winter Storms
- 1997 January

Flood Hazard Exposure

County Statistics

Total Acreage:	935,608
Total Population:	17,140
Total Structures:	9,500
Total Value of Structures and Contents:	\$1.8 billion
Total Agricultural Acreage:	3,642
Total Value of Crops:	\$758,900

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	17,356	17,356
Percent of Area Exposed:	2	2
Population Exposed:	249	249
Percent of Population Exposed:	1	1
Structures Exposed:	181	181
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$46.0 million	\$46.0 million
Exposed Crops (acres):	98	98
Value of Exposed Crops:	\$0	\$0
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	0	0
High Potential Loss Facilities Exposed:	4	4
Lifeline Utilities Exposed:	0	0
Transportation Facilities Exposed:	7	7
Transportation Segments Exposed (miles):	14	14
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	35	35
Total Sensitive Animal Species Exposed:	39	39

Types of Flooding

- | | |
|----------------|------------------------------|
| Likely: | Present: |
| Slow Rise | Engineered Structure Failure |
| Stormwater | Debris Flow |
| Flash | |

Hydrologic Regions



Figure D-43
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Mariposa County

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Mar 22, 2013



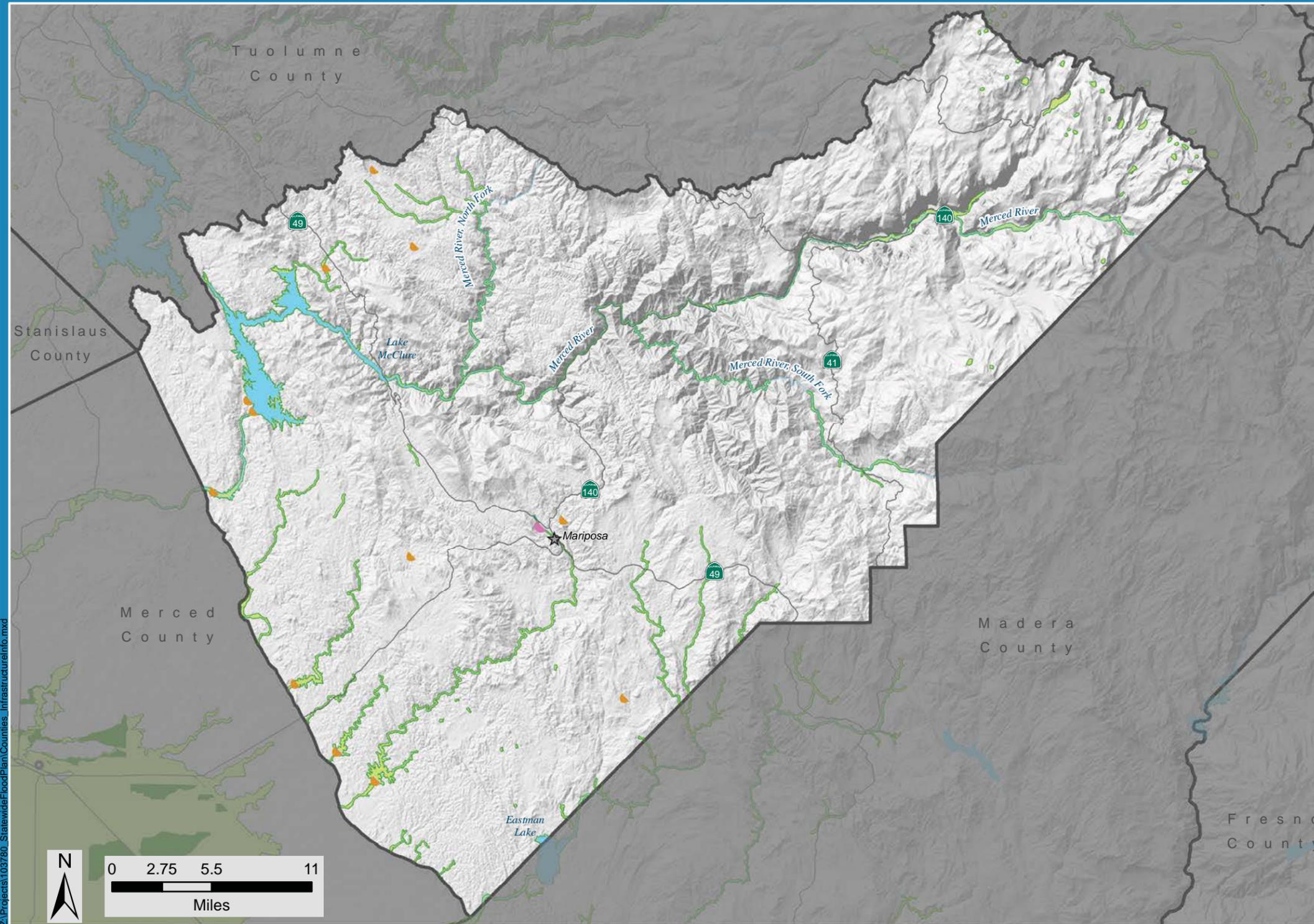
Mariposa County

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DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Mariposa County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
Channel
Dam

Agencies Contacted as Part of SFMP:
Mariposa County

Planned Projects:

Number of Local Projects:	0
Estimated Cost of Local Projects:	none
Number of USACE Projects:	0
Estimated Cost of USACE Projects:	none

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. Populated Places from GNIS, 2011. Counties from CalAtlas, 2009. Dams modified from DWR, Bulletin 17-00, 2000. CLD layers are from California Levee Database, v2.2 r2, 2010. NFHL layers are from the National Flood Hazard Layer, FEMA, August 2011. Highways from TeleAtlas, 2004. Rivers and Lakes modified from DFG, N/A. Floodplains compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Mariposa County

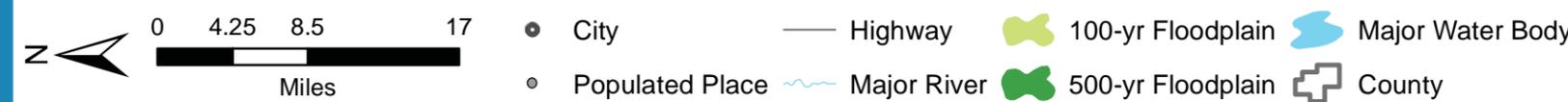
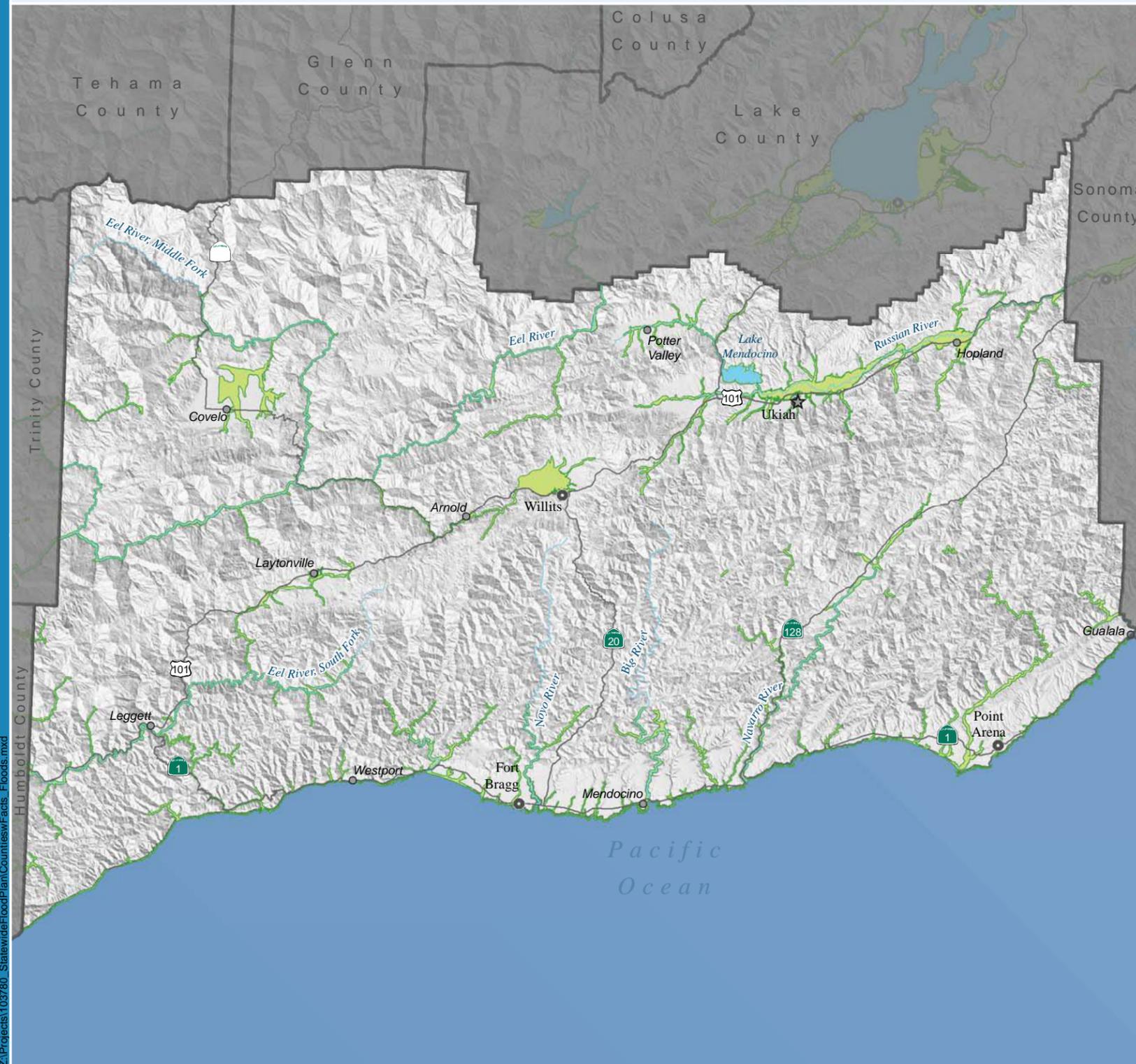
Figure D-44
Summary of Available Flood Infrastructure Information, Mariposa County

DRAFT Mar 22, 2013

- Statewide GIS Data:**
- City
 - Populated Place
 - DWR Local Agency Dam
 - DWR Other Dam
 - NFHL Dam or Weir
 - CLD Pump Station
 - CLD Local Agency Levee
 - CLD Other Levee
 - NFHL Levee
 - NFHL Flood Event Structure
 - NFHL Channel
 - NFHL Control Structure
 - NFHL Dike
 - NFHL Retaining Wall
 - Highway
 - Major River
 - Major Water Body
 - 100-yr Floodplain
 - 500-yr Floodplain
 - County

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100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1912** November, Russian River
- 1937** December, Russian River
- 1953** January, Eel River
- 1955-1956** December-January, 1955 Christmas Flood, Russian River, Eel, Noyo Creek, Mattole Creek
- 1964** March-April
- 1966** January
- 1968-1969** December-January, Winter '69 Storms, Elk River, Gualala River, Russian River
- 1970** Winter, Northern California Flooding, Russian River
- 1974** January, Russian River
- 1978** January
- 1982-1983** December-April, Winter Storms
- 1986** February, St. Valentine's Day Storm Russian River
- 1993** Late Winter Storms
- 1995** January-March, Severe Winter Storms
- 1998** February 9, El Niño Floods
- 2005-2006** December-January, New Year's Eve Flood of 2006
- 2006** March 29-April 1, May 10

Flood Hazard Exposure

County Statistics

Total Acreage:	2.2 million
Total Population:	86,198
Total Structures:	41,100
Total Value of Structures and Contents:	\$7.7 billion
Total Agricultural Acreage:	80,134
Total Value of Crops:	\$196.7 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	48,590	49,988
Percent of Area Exposed:	2	2
Population Exposed:	7,227	8,881
Percent of Population Exposed:	8	10
Structures Exposed:	3,152	3,788
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$590.6 million	\$724.2 million
Exposed Agricultural	17,151	17,775
Value of Exposed	\$50.2 million	\$53.6 million
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	9	10
High Potential Loss Facilities Exposed:	11	11
Lifeline Utilities Exposed:	2	2
Transportation Facilities Exposed:	75	88
Transportation Segments Exposed (miles):	69	77
Native American Tribal Land Exposed (acres):	505	505
Total Sensitive Plant Species Exposed:	70	70
Total Sensitive Animal Species Exposed:	39	39

Mendocino County

Types of Flooding

Likely:	Present:
Slow Rise	Engineered Structure Failure
Flash	Tsunami
Coastal	Alluvial Fan
Stormwater	
Debris Flow	

Hydrologic Regions



Figure D-45
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Mendocino County

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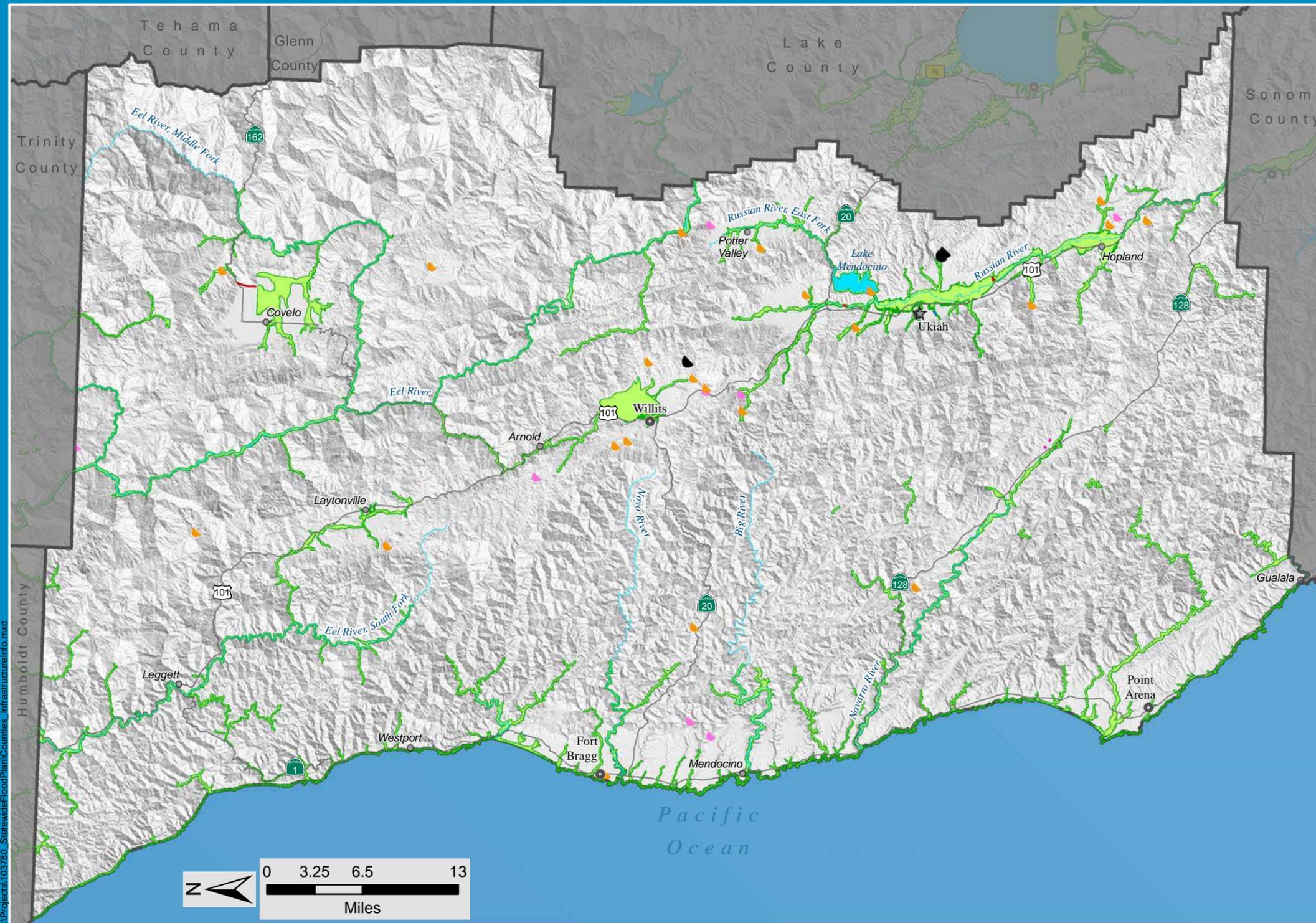
Mar 22, 2013



DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Mendocino County



Flood Infrastructure GIS Data Received from Agencies Contacted:
 No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
 Channel
 Dam

Agencies Contacted as Part of SFMP:
 Mendocino County Water Agency

Planned Projects:

Number of Local Projects:	1
Estimated Cost of Local Projects:	\$2.1 million
Number of USACE Projects:	1
Estimated Cost of USACE Projects:	\$150 million

Statewide GIS Data Sources:
 Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
 All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Mendocino County

Statewide GIS Data:

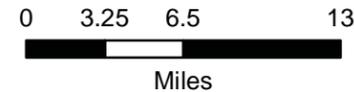
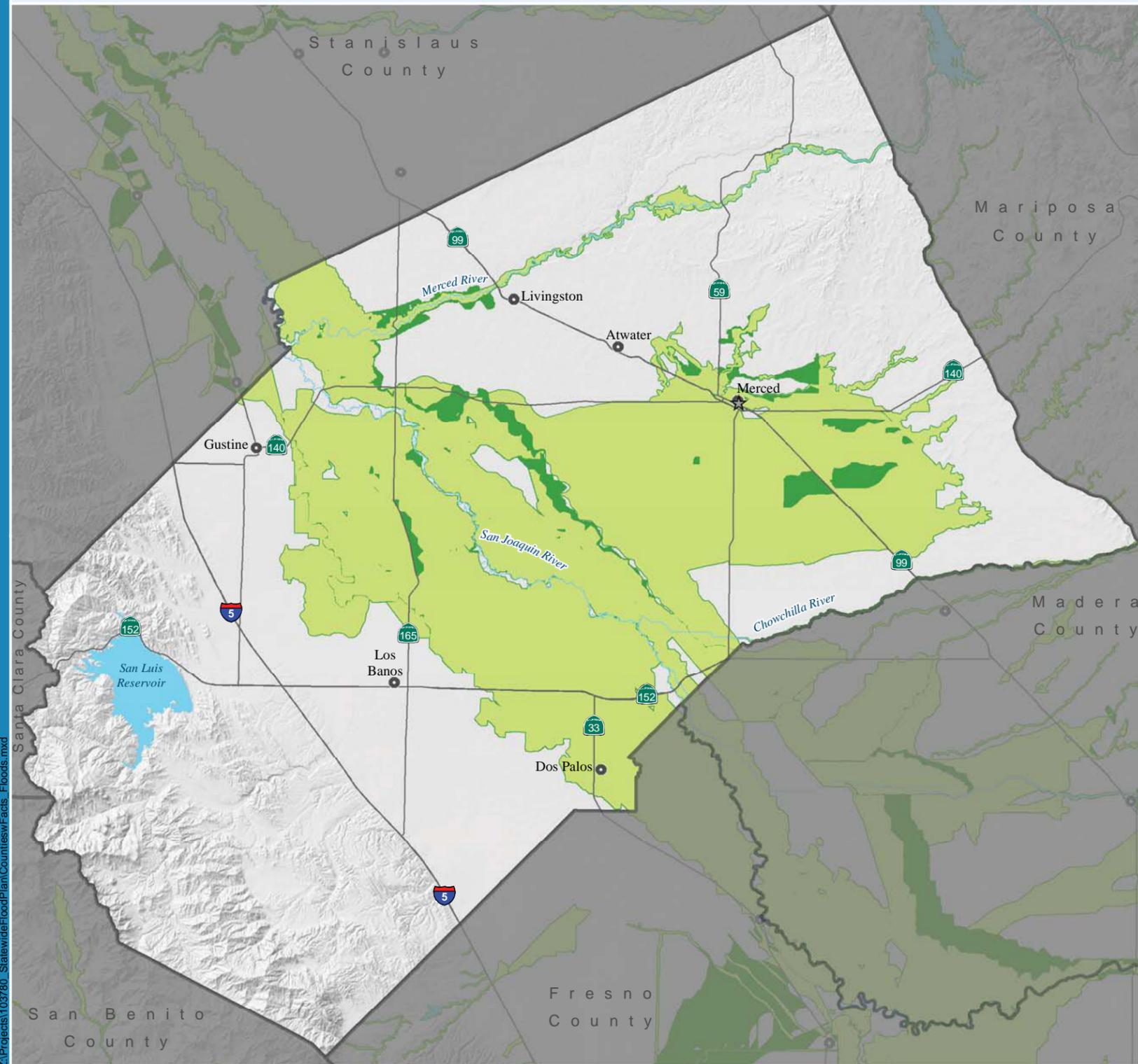
● City	● DWR Local Agency Dam	PS CLD Pump Station	~ NFHL Levee	~ NFHL Control Structure	— Highway	100-yr Floodplain
○ Populated Place	● DWR Other Dam	~ CLD Local Agency Levee	~ NFHL Flood Event Structure	~ NFHL Dike	~ Major River	500-yr Floodplain
	● NFHL Dam or Weir	~ CLD Other Levee	~ NFHL Channel	~ NFHL Retaining Wall	~ Major Water Body	County

Figure D-46
 Summary of Available Flood Infrastructure Information, Mendocino County

DRAFT Mar 22, 2013

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

100-year and 500-year Floodplains



- City
- Populated Place
- Highway
- Major River
- 100-yr Floodplain
- 500-yr Floodplain
- Major Water Body
- County

Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1867** February
- 1868** March
- 1911** January, Mokelumne River Flood
- 1950** November - December
- 1955-1956** December-January, Christmas Flood
- 1958** February-April
- 1962-1963** December-February
- 1968-1969** December-February, Winter '69 Storms, Klamath River Basin
- 1982-1983** December-March, Winter Storms
- 1995** January-April, 1995 Christmas Flood
- 1997** January, Bear Creek
- 2006** March 29 - April 1, May 10, Spring Storms

Flood Hazard Exposure

County Statistics

Total Acreage:	1.3 million
Total Population:	211,108
Total Structures:	69,800
Total Value of Structures and Contents:	\$15.4 billion
Total Agricultural Acreage:	550,475
Total Value of Crops:	\$1.0 billion

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	371,139	391,669
Percent of Area Exposed:	29	31
Population Exposed:	61,886	70,103
Percent of Population Exposed:	29	33
Structures Exposed:	20,588	22,983
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$3.4 billion	\$4.0 billion
Exposed Crops (acres)	225,663	237,841
Value of Exposed Crops:	\$370.4 million	\$391.0 million
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	44	49
High Potential Loss Facilities Exposed:	11	11
Lifeline Utilities Exposed:	9	9
Transportation Facilities Exposed:	187	190
Transportation Segments Exposed (miles):	140	152
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	25	26
Total Sensitive Animal Species Exposed:	38	38

Merced County

Types of Flooding

- | | |
|----------------|------------------------------|
| Likely: | Present: |
| Slow Rise | Engineered Structure Failure |
| Stormwater | Debris Flow |
| Flash | |

Hydrologic Regions



Figure D-47
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Merced County

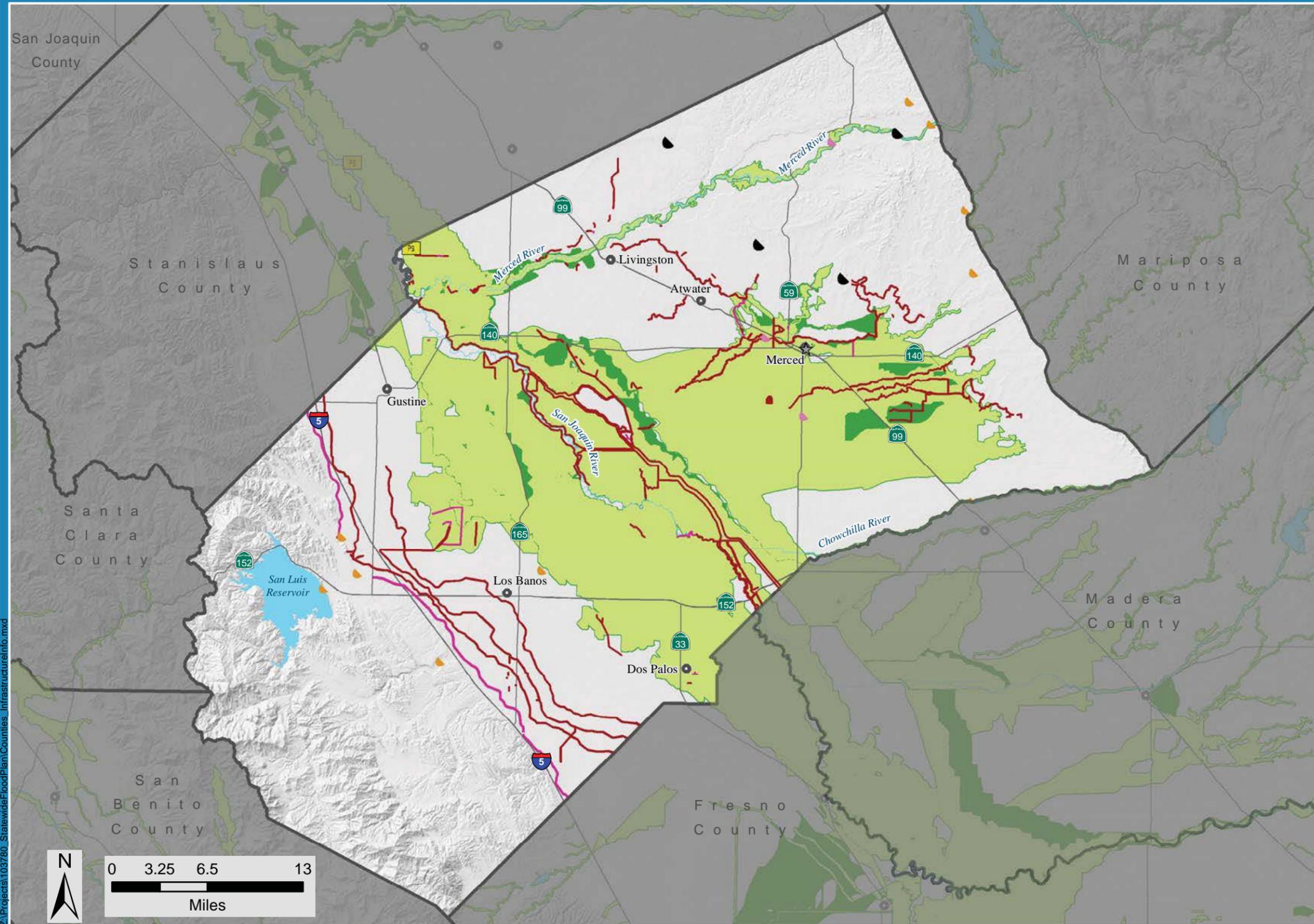
DRAFT

Mar 22, 2013



Summary of Available Flood Infrastructure Information

Merced County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):

- Channel
- Dam
- Debris Basin

Agencies Contacted as Part of SFMP:
Merced County Public Works
Merced Irrigation District

Planned Projects:

Number of Local Projects:	1
Estimated Cost of Local Projects:	\$1.3 million
Number of USACE Projects:	1
Estimated Cost of USACE Projects:	\$2.5 million

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. Populated Places from GNIS, 2011. Counties from CalAtlas, 2009. Dams modified from DWR, Bulletin 17-00, 2000. CLD layers are from California Levee Database, v2.2 r2, 2010. NFHL layers are from the National Flood Hazard Layer, FEMA, August 2011. Highways from TeleAtlas, 2004. Rivers and Lakes modified from DFG, N/A. Floodplains compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Merced County

Statewide GIS Data:

City	DWR Local Agency Dam	CLD Pump Station	NFHL Levee	NFHL Control Structure	Highway	100-yr Floodplain
Populated Place	DWR Other Dam	CLD Local Agency Levee	NFHL Flood Event Structure	NFHL Dike	Major River	500-yr Floodplain
	NFHL Dam or Weir	CLD Other Levee	NFHL Channel	NFHL Retaining Wall	Major Water Body	County

Figure D-48
Summary of Available Flood Infrastructure Information, Merced County

DRAFT Mar 22, 2013

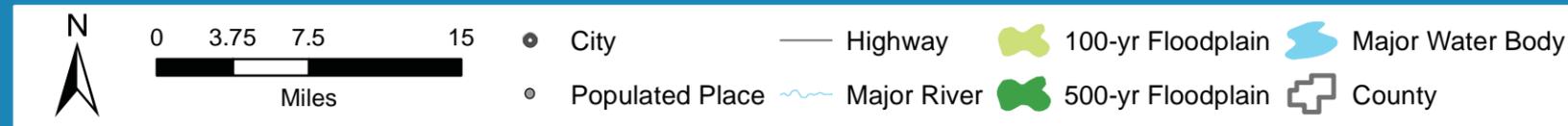
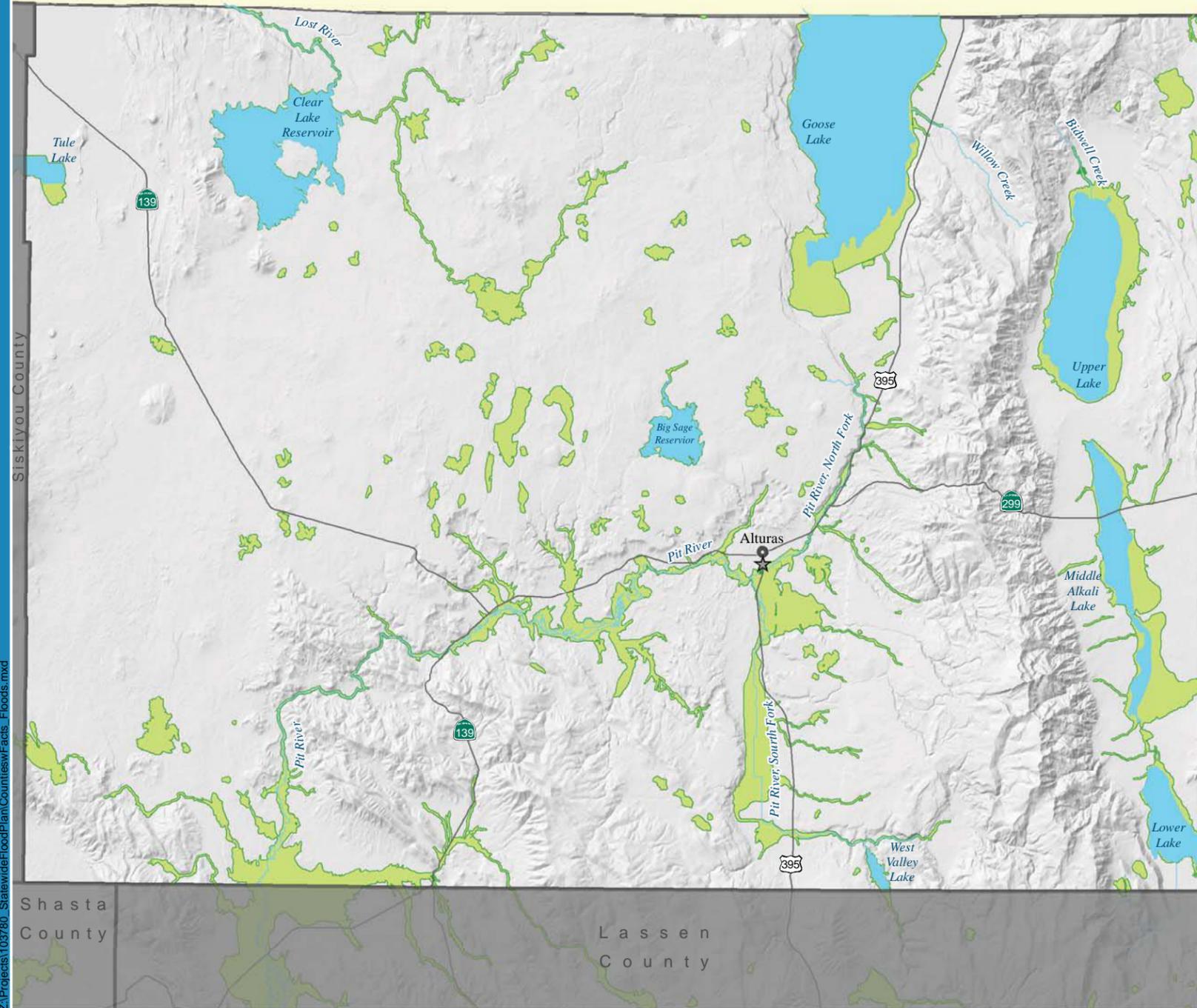
US Army Corps of Engineers

STATEWIDE FLOOD MANAGEMENT PLANNING PROGRAM

FloodSAFE CALIFORNIA

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1955-1956** December-January, Christmas Flood
- 1964-1965** December-January, Northern California Christmas 1964 Disaster
- 1969-1970**, Winter '69 Storms, Countywide
- 1970** December, Countywide
- 1974** January-April
- 1986** February, St. Valentine's Day Storm
- 1993** January-February, Late Winter Storms
- 1995** January-March, Severe Winter Storms, Sacramento River Basin
- 1996-1997** December-January
- 2005-2006** December-January, New Year's Eve Flood of 2006

Flood Hazard Exposure

County Statistics

Total Acreage:	2.7 million
Total Population:	9,445
Total Structures:	6,400
Total Value of Structures and Contents:	\$704.1 million
Total Agricultural Acreage:	182,946
Total Value of Crops:	\$96.6 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	294,725	294,876
Percent of Area Exposed:	11	11
Population Exposed:	914	1,007
Percent of Population Exposed:	10	11
Structures Exposed:	626	695
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$80.2 million	\$94.9 million
Exposed Crops (acres)	46,391	46,490
Value of Exposed Crops	\$8.0 million	\$8.0 million
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	4	7
High Potential Loss Facilities Exposed:	24	24
Lifeline Utilities Exposed:	0	0
Transportation Facilities Exposed:	42	42
Transportation Segments Exposed (miles):	30	30
Native American Tribal Land Exposed (acres):	1,490	1,495
Total Sensitive Plant Species Exposed:	50	50
Total Sensitive Animal Species Exposed:	33	33

Types of Flooding

- | | |
|----------------|------------------------------|
| Likely: | Present: |
| Slow Rise | Debris Flow |
| Stormwater | Alluvial Fan |
| | Engineered Structure Failure |
| | Flash |

Hydrologic Regions



Figure D-49
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Modoc County

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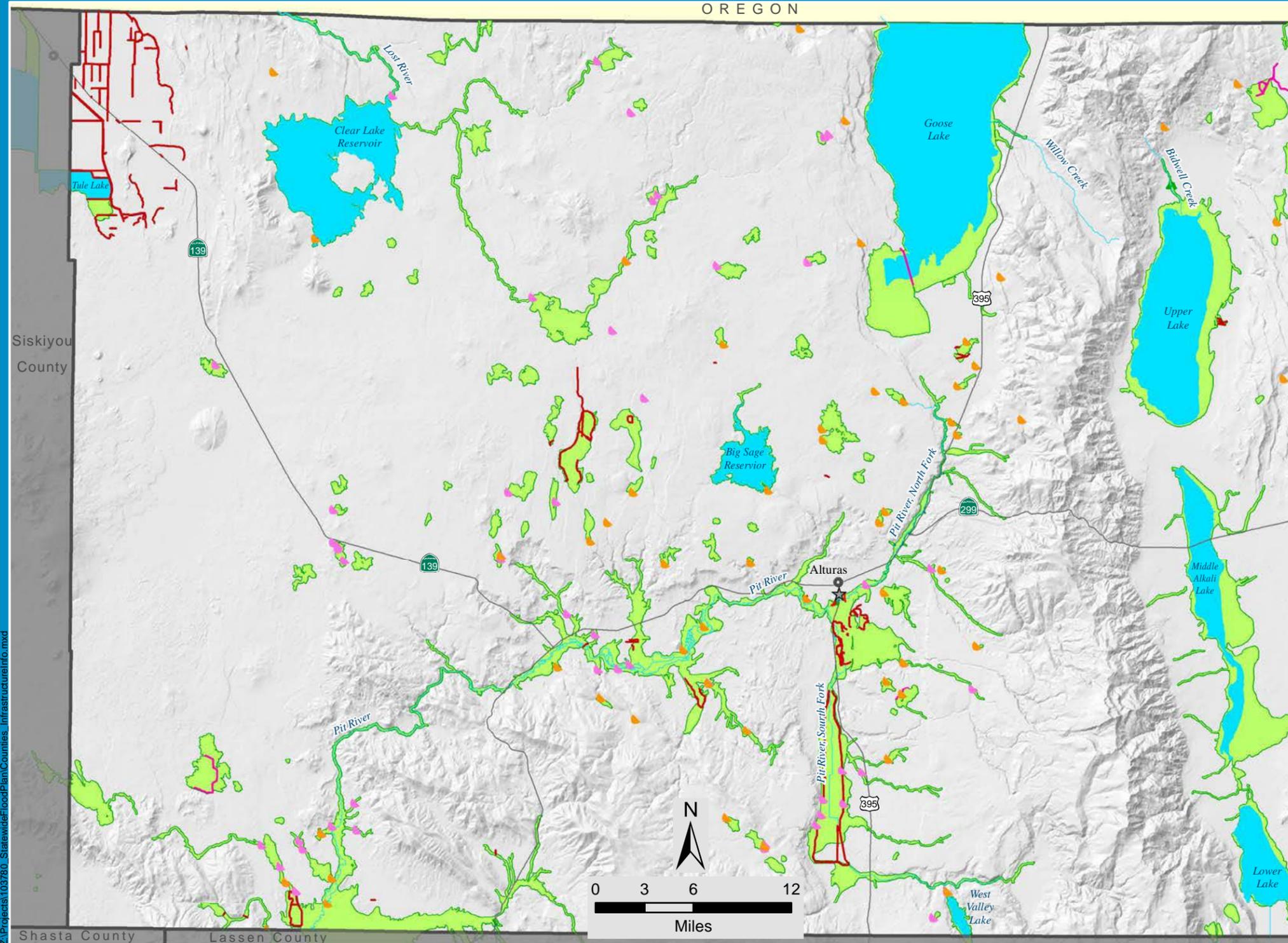
Mar 22, 2013



DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Modoc County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
Dam

Agencies Contacted as Part of SFMP:
Modoc County
City of Alturas
Central Modoc Resource Conservation District

Planned Projects:

Number of Local Projects:	10
Estimated Cost of Local Projects:	\$1.1 million
Number of USACE Projects:	0
Estimated Cost of USACE Projects:	none

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. Populated Places from GNIS, 2011. Counties from CalAtlas, 2009. Dams modified from DWR, Bulletin 17-00, 2000. CLD layers are from California Levee Database, v2.2 r2, 2010. NFHL layers are from the National Flood Hazard Layer, FEMA, August 2011. Highways from TeleAtlas, 2004. Rivers and Lakes modified from DFG, N/A. Floodplains compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Figure D-50
Summary of Available Flood Infrastructure Information, Modoc County

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Mar 22, 2013

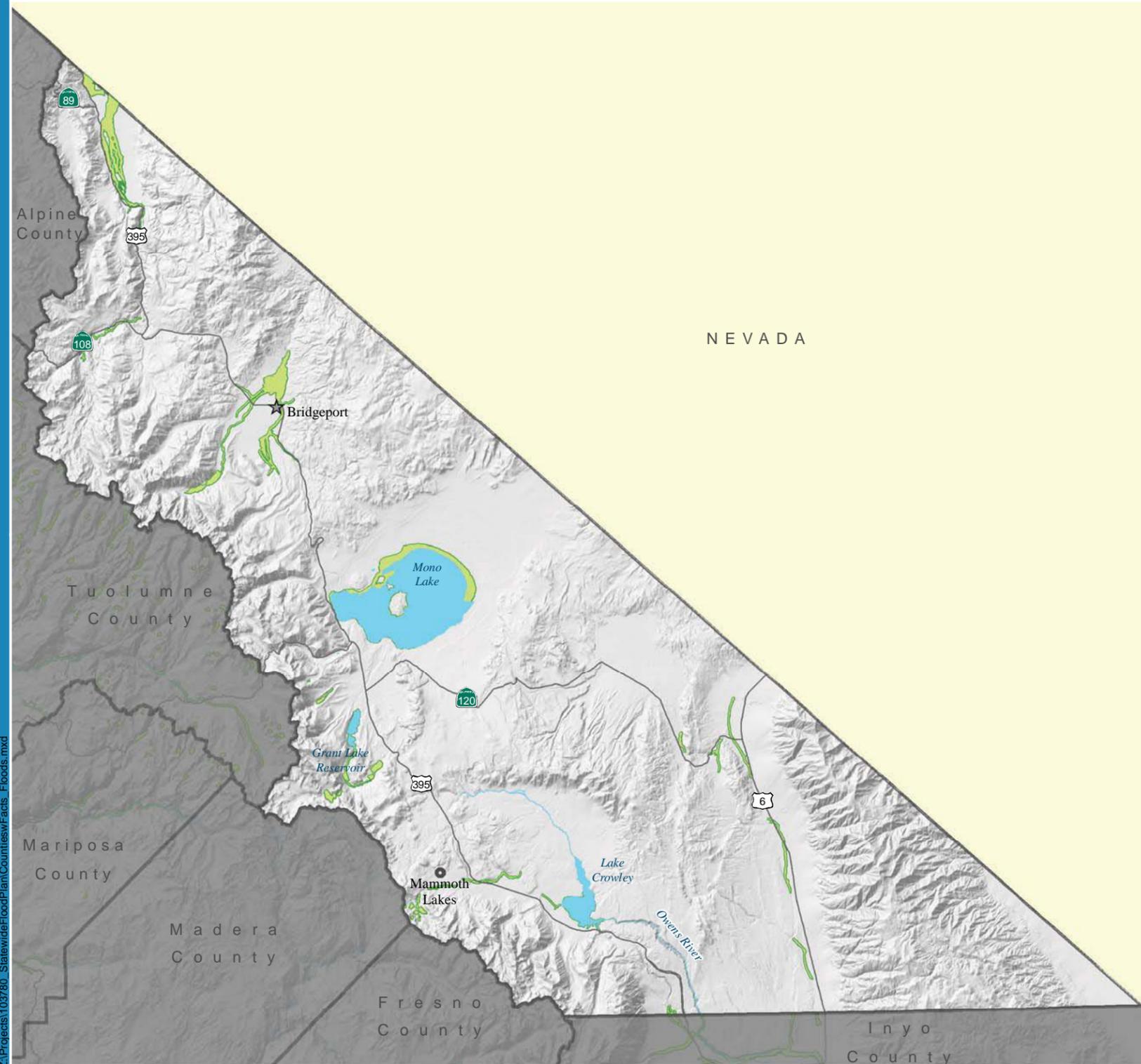
- | | | | | | | |
|----------------------------|------------------------|--------------------------|------------------------------|--------------------------|--------------------|---------------------|
| Statewide GIS Data: | ● DWR Local Agency Dam | ■ CLD Pump Station | — NFHL Levee | — NFHL Control Structure | — Highway | ■ 100-yr Floodplain |
| ● City | ● DWR Other Dam | — CLD Local Agency Levee | — NFHL Flood Event Structure | — NFHL Dike | — Major River | ■ 500-yr Floodplain |
| ○ Populated Place | ● NFHL Dam or Weir | — CLD Other Levee | — NFHL Channel | — NFHL Retaining Wall | ■ Major Water Body | ■ County |



DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Modoc County

100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1962-1963** December-February
- 1968-1969** December-January, Winter '69 Storms
- 1978** Communities of Benton, Hammil, and Chalfant Valley
- 1984** Communities of Benton, Hammil, and Chalfant Valley
- 1986** February, St. Valentine's Day Storm
- 1989** June-August, Communities of Benton, Hammil, and Chalfant Valley
- 1995** January-March, Severe Winter Storms, Walker and Coleville areas
- 1997** January 1-2, Walker River Basin, countywide
- 2001** January, Walker River

Flood Hazard Exposure

County Statistics

Total Acreage:	2.0 million
Total Population:	12,851
Total Structures:	9,100
Total Value of Structures and Contents:	\$2.2 billion
Total Agricultural Acreage:	37,129
Total Value of Crops	\$2.8 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	65,911	66,251
Percent of Area Exposed:	3	3
Population Exposed:	304	370
Percent of Population Exposed:	2	3
Structures Exposed:	318	371
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$53.4 million	\$62.6 million
Exposed Crops (acres)	5,228	5,403
Value of Exposed Crops:	\$468,801	\$469,725
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	2	2
High Potential Loss Facilities Exposed:	2	2
Lifeline Utilities Exposed:	1	1
Transportation Facilities Exposed:	6	6
Transportation Segments Exposed (miles):	17	18
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	23	23
Total Sensitive Animal Species Exposed:	28	28

Mono County

Types of Flooding

- | | |
|----------------|------------------------------|
| Likely: | Present: |
| Slow Rise | Engineered Structure Failure |
| Flash | |
| Debris Flow | |
| Alluvial Fan | |
| Stormwater | |

Hydrologic Regions



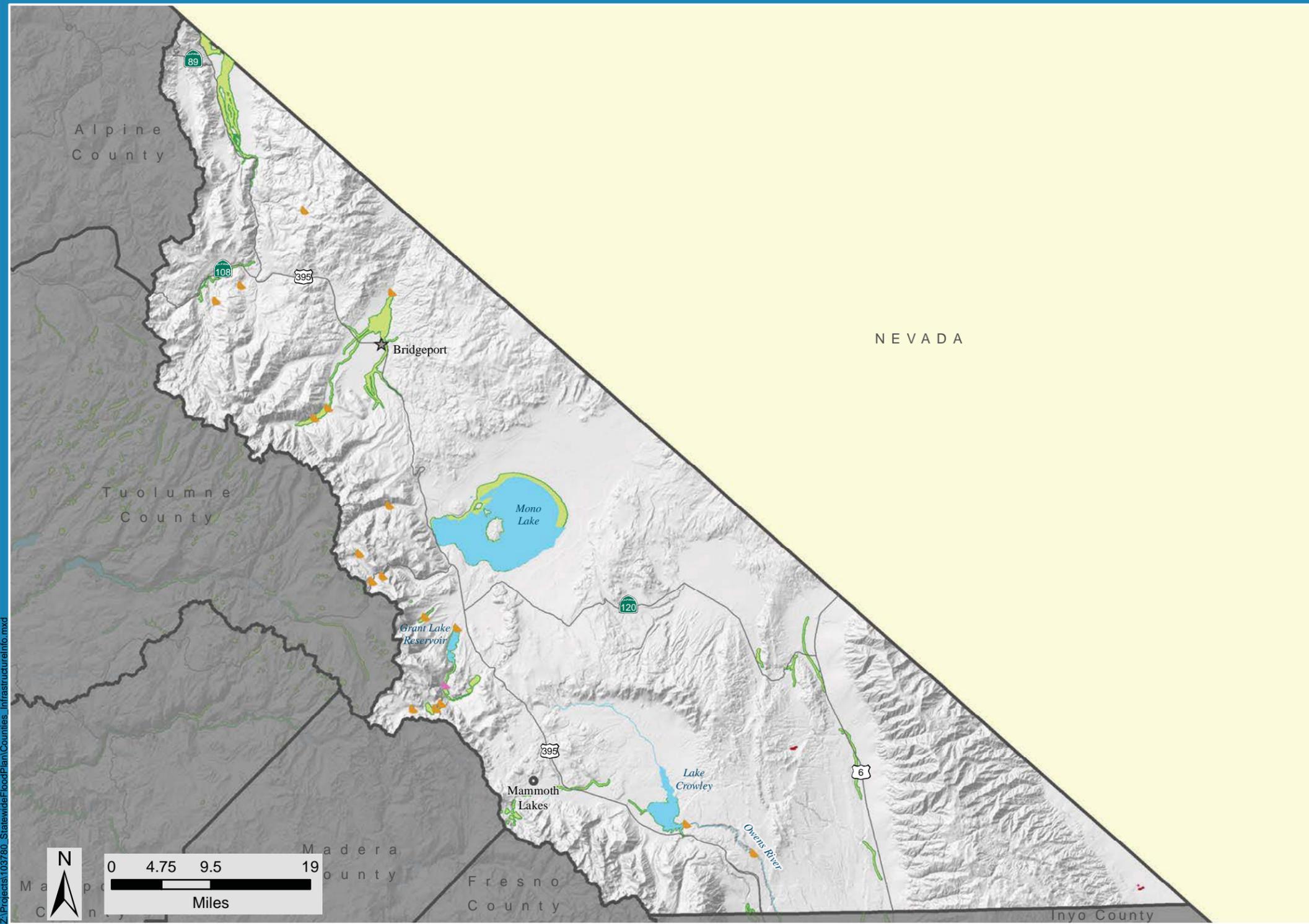
Figure D-51
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Mono County

DRAFT Mar 22, 2013

DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Mono County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
Channel

Agencies Contacted as Part of SFMP:
Mono County
Town of Mammoth Lakes

Planned Projects:

Number of Local Projects:	4
Estimated Cost of Local Projects:	\$587,000
Number of USACE Projects:	0
Estimated Cost of USACE Projects:	none

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Mono County

Statewide GIS Data:

City	DWR Local Agency Dam	CLD Pump Station	NFHL Levee	NFHL Control Structure	Highway	100-yr Floodplain
Populated Place	DWR Other Dam	CLD Local Agency Levee	NFHL Flood Event Structure	NFHL Dike	Major River	500-yr Floodplain
	NFHL Dam or Weir	CLD Other Levee	NFHL Channel	NFHL Retaining Wall	Major Water Body	County

Figure D-52
Summary of Available Flood Infrastructure Information, Mono County

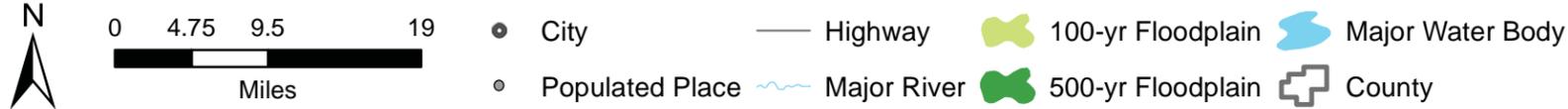
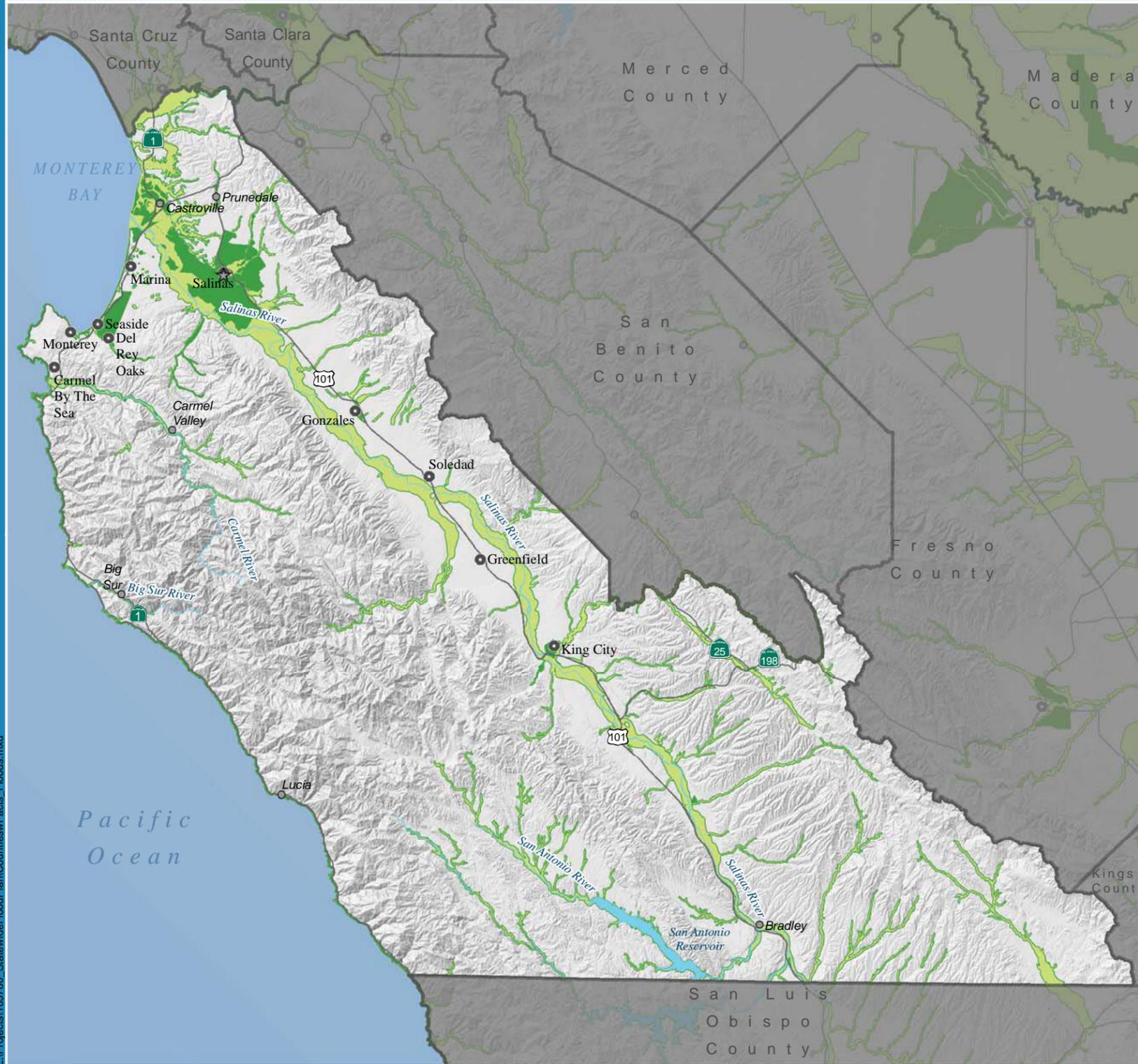
DRAFT Mar 22, 2013





DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1937 February
- 1938 February-March, Salinas River
- 1955-1956 December-January, 1955 Christmas Flood, Salinas Valley
- 1958 March-April, Countywide
- 1962 February, Countywide
- 1963 January-February, Salsipuedes Creek, Pajaro River
- 1969 January-February, Winter '69 Storms, Pajaro River, Salinas River, San Lorenzo River
- 1970 January
- 1973 January-February, Salinas Valley
- 1978 January-February, Countywide
- 1980 February 12-22, Countywide
- 1982-1983 November-March, Winter Storms, Salinas River
- 1995 January-March, Severe Winter Storms, Countywide
- 1997 December-January
- 1998 February, El Niño Floods, Coastal Communities, Pajaro River
- 2006 March 29-April 1, May 10

Flood Hazard Exposure

County Statistics

Total Acreage:	2.1 million
Total Population:	401,683
Total Structures:	123,700
Total Value of Structures and Contents:	\$33.1 billion
Total Agricultural Acreage:	262,671
Total Value of Crops:	\$1.4 billion

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	121,375	154,034
Percent of Area Exposed:	6	7
Population Exposed:	18,185	216,515
Percent of Population Exposed:	5	54
Structures Exposed:	5,650	54,575
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$1.9 billion	\$14.3 billion
Exposed Crops (acres):	54,385	69,310
Value of Exposed Crops:	\$311.0 million	\$411.2 million
Department of Defense Facilities Exposed:	4	4
Essential Facilities Exposed:	9	106
High Potential Loss Facilities Exposed:	6	8
Lifeline Utilities Exposed:	4	7
Transportation Facilities Exposed:	92	139
Transportation Segments Exposed (miles):	75	146
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	79	79
Total Sensitive Animal Species Exposed:	56	57

Monterey County

Types of Flooding

Likely:	Present:
Slow Rise	Engineered Structure Failure
Flash	Tsunami
Coastal	Alluvial Fan
Stormwater	
Debris Flow	

Hydrologic Regions



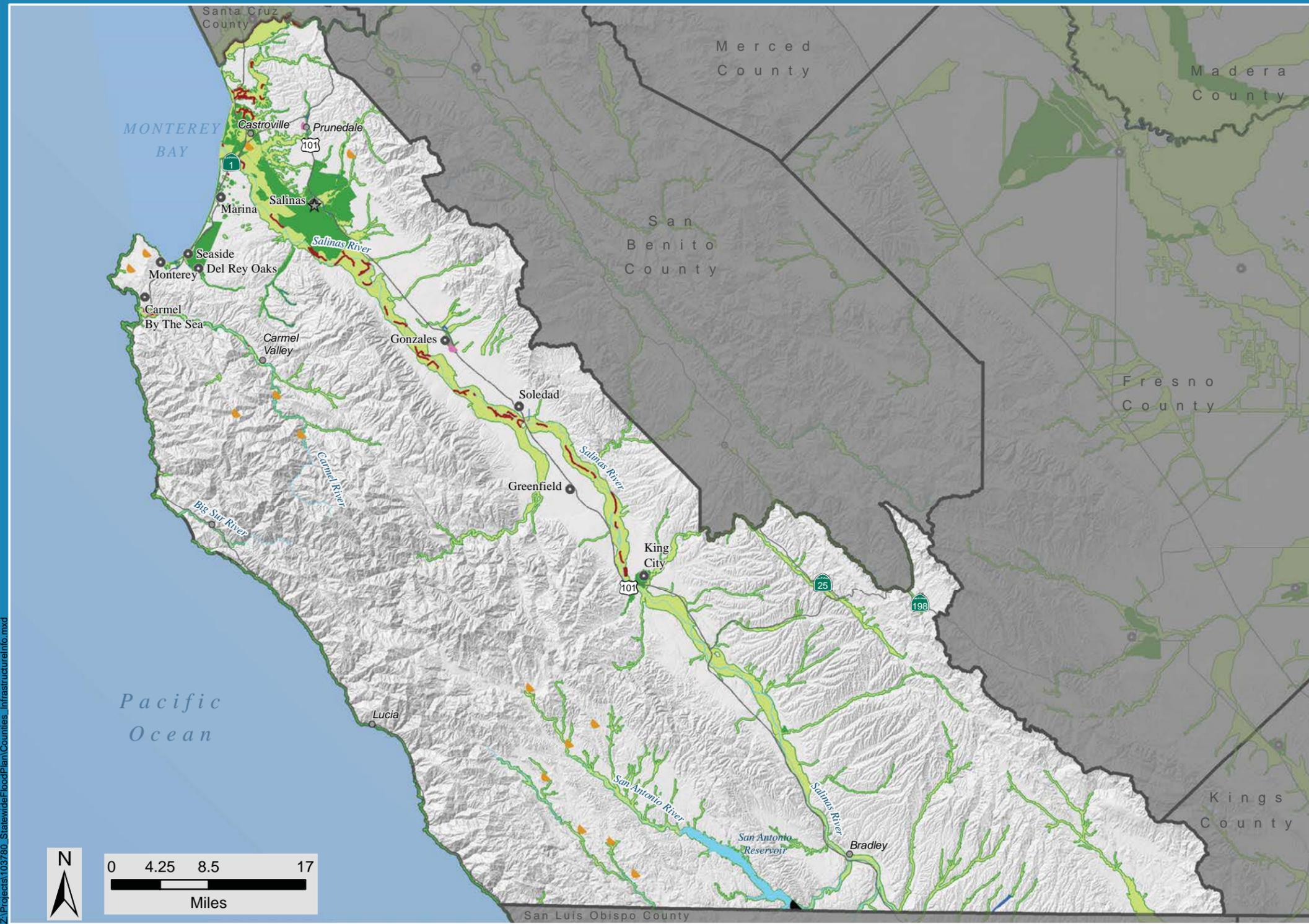
Figure D-53
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Monterey County

DRAFT Mar 22, 2013

DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Monterey County



Flood Infrastructure GIS Data Received from Agencies Contacted:
 No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
 Channel
 Dam

Agencies Contacted as Part of SFMP:
 Monterey County Water Resources Agency

Planned Projects:

Number of Local Projects:	13
Estimated Cost of Local Projects:	\$26.5 million
Number of USACE Projects:	0
Estimated Cost of USACE Projects:	none

Statewide GIS Data Sources:
 Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Figure D-54
 Summary of Available Flood Infrastructure Information, Monterey County

DRAFT Mar 22, 2013



US Army Corps of Engineers



STATEWIDE FLOOD MANAGEMENT PLANNING PROGRAM

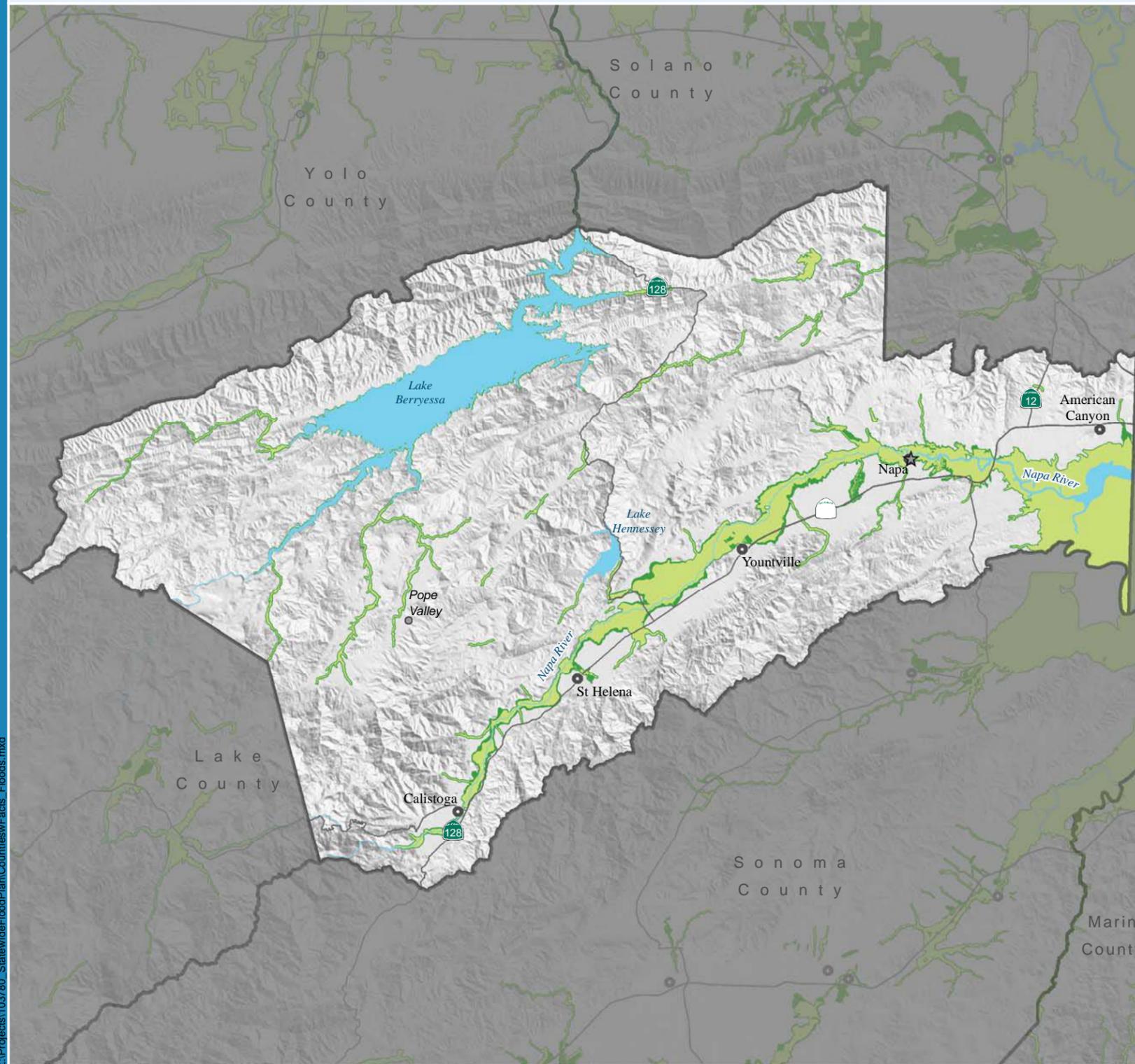


- Statewide GIS Data:**
- | | | | | | | |
|-----------------|----------------------|------------------------|----------------------------|------------------------|------------------|-------------------|
| City | DWR Local Agency Dam | CLD Pump Station | NFHL Levee | NFHL Control Structure | Highway | 100-yr Floodplain |
| Populated Place | DWR Other Dam | CLD Local Agency Levee | NFHL Flood Event Structure | NFHL Dike | Major River | 500-yr Floodplain |
| | NFHL Dam or Weir | CLD Other Levee | NFHL Channel | NFHL Retaining Wall | Major Water Body | County |

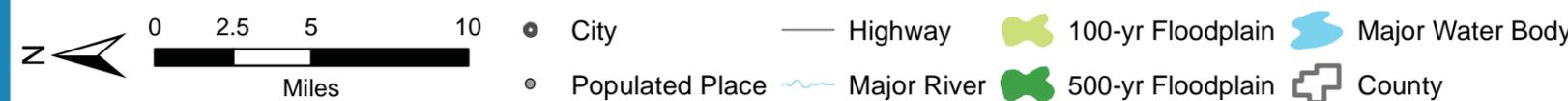
DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Monterey County

100-year and 500-year Floodplains



Z:\Projects\103780_Statewide Flood Plan\Counties\Facts_Floods.mxd



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1937-1938** December-March, Bay Area
- 1942** February 6, Napa River
- 1955-1956** December-January, 1955 Christmas Flood, Bay Area
- 1964-1965** December-January, Northern California Christmas 1964 Disaster, Bay Area
- 1969** January, Winter '69 Storms, Countywide
- 1969-1970** December-April, San Francisco Bay Area, Napa
- 1973** January-February, Central Coast Ranges (including Bay Area) to Transverse and Peninsula Ranges
- 1974** February, San Francisco Bay Area
- 1982** January-February, Winter Storms, San Francisco Bay Area
- 1986** February 17-18, St. Valentine's Day Storm, San Pablo Bay, Napa River
- 1993** January 20-25, Late Winter Storm
- 1995** January-March, 1995 Christmas Flood
- 2002** December 16, Napa River
- 2006** February 3-April 1, May 10, Spring Storms

Flood Hazard Exposure

County Statistics

Total Acreage:	505,857
Total Population:	124,232
Total Structures:	49,200
Total Value of Structures and Contents:	\$14.2 billion
Total Agricultural Acreage:	48,639
Total Value of Crops	\$1.7 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	51,436	53,775
Percent of Area Exposed:	10	11
Population Exposed:	13,559	17,322
Percent of Population Exposed:	11	14
Structures Exposed:	4,926	6,509
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$1.5 billion	\$1.9 billion
Exposed Crops (acres)	8,780	9,992
Value of Exposed Crops	\$336,927	\$342,212
Department of Defense Facilities Exposed:	1	1
Essential Facilities Exposed:	11	12
High Potential Loss Facilities Exposed:	1	1
Lifeline Utilities Exposed:	3	3
Transportation Facilities Exposed:	42	51
Transportation Segments Exposed (miles):	24	27
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	39	40
Total Sensitive Animal Species Exposed:	28	28

Napa County

Types of Flooding

Likely:	Present:
Slow Rise	Alluvial Fan
Flash	Engineered Structure Failure
Debris Flow	
Stormwater	

Hydrologic Regions



Figure D-55
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Napa County

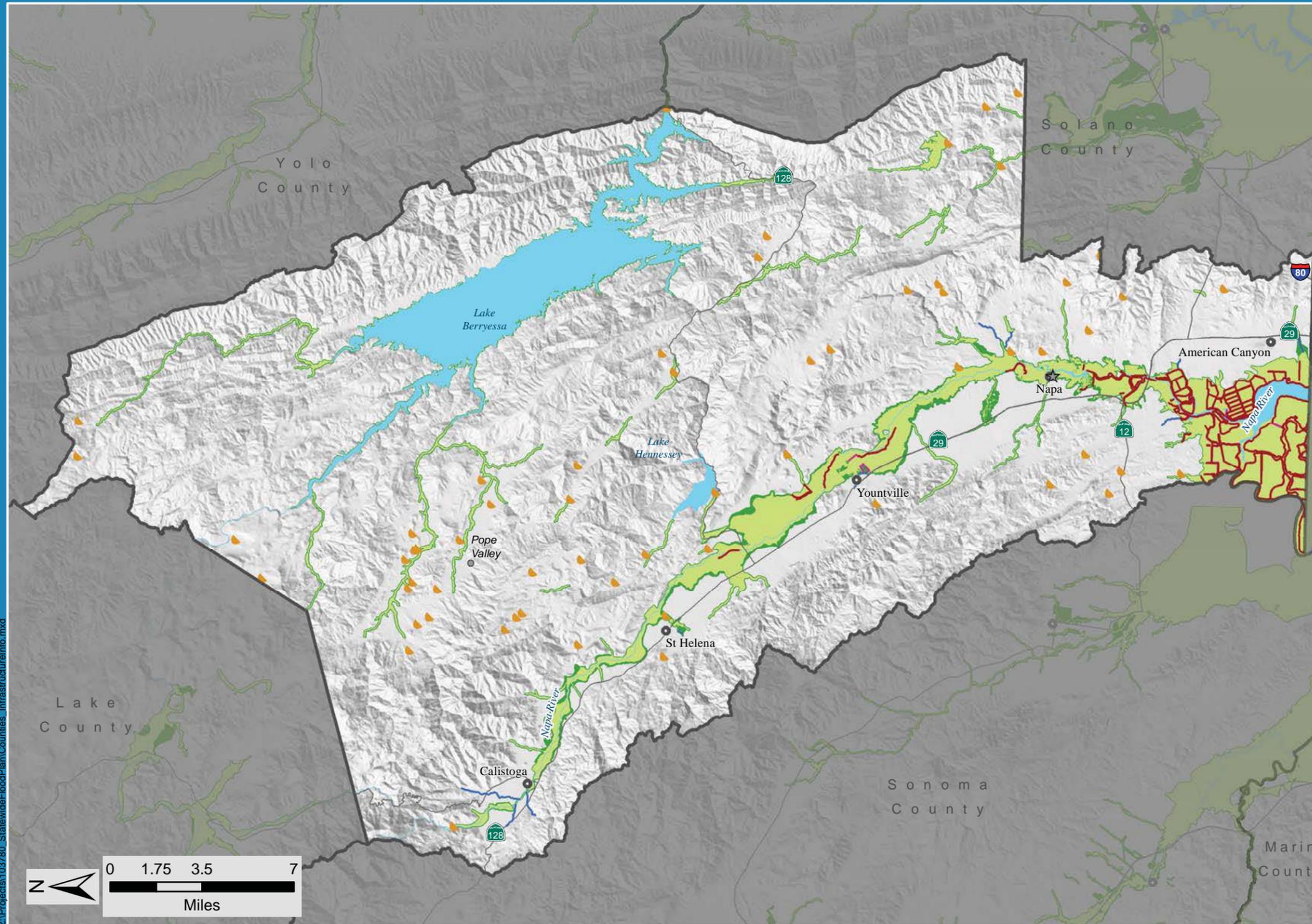
DRAFT

Mar 22, 2013



Summary of Available Flood Infrastructure Information

Napa County



Flood Infrastructure GIS Data Received from Agencies Contacted:
 No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
 Levee
 Channel
 Floodwall

Agencies Contacted as Part of SFMP:
 Napa County Flood Control and Water Conservation District

Planned Projects:

Number of Local Projects:	3
Estimated Cost of Local Projects:	\$19.8 million
Number of USACE Projects:	2
Estimated Cost of USACE Projects:	\$313.1 million

Statewide GIS Data Sources:
 Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
 All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Napa County

Figure D-56
 Summary of Available Flood Infrastructure Information, Napa County

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US Army Corps of Engineers

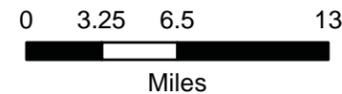
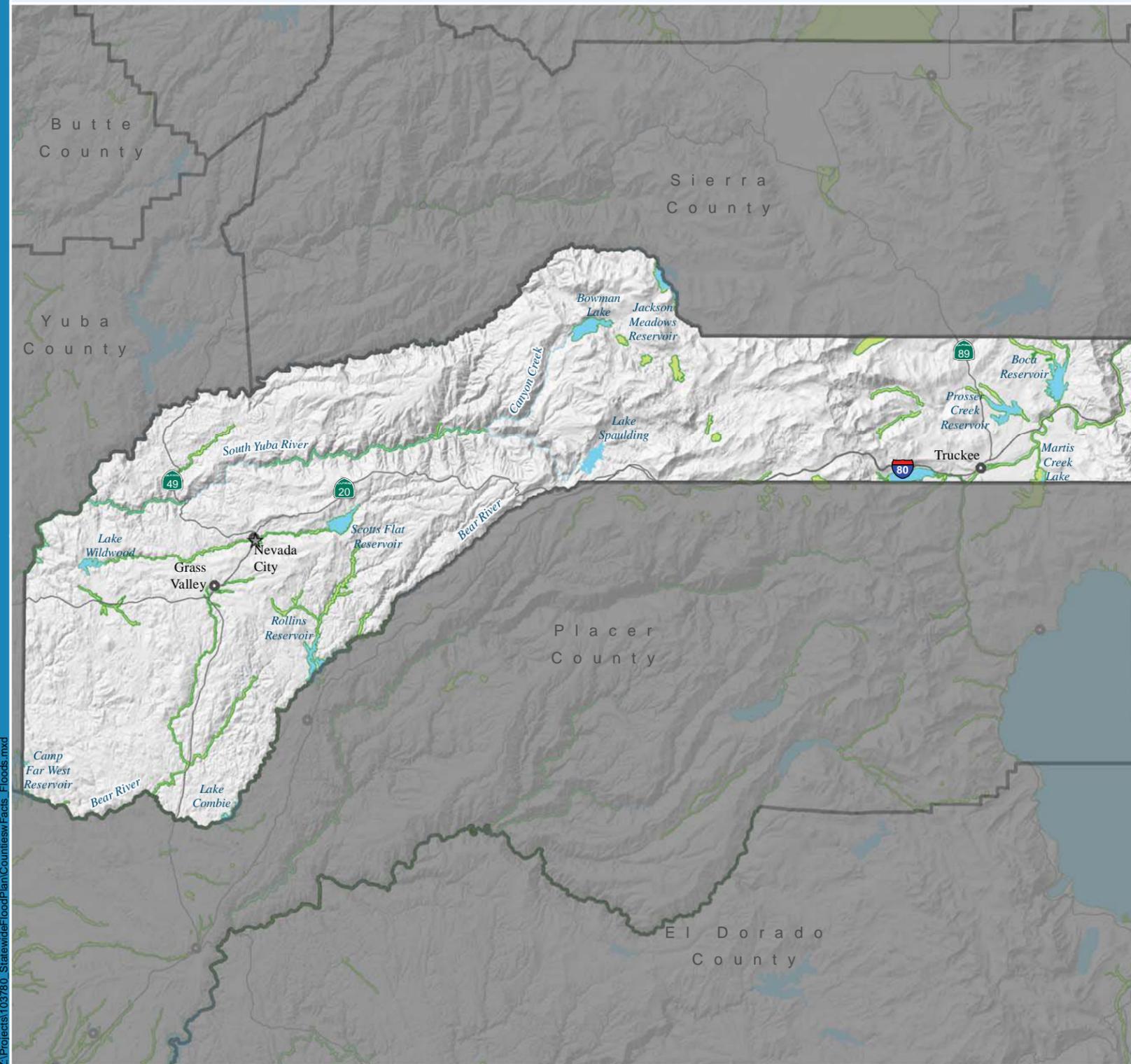
STATEWIDE FLOOD MANAGEMENT PLANNING PROGRAM

FloodSAFE CALIFORNIA

- Statewide GIS Data:**
- | | | | | | | |
|-------------------|------------------------|--------------------------|------------------------------|--------------------------|--------------------|---------------------|
| ● City | ● DWR Local Agency Dam | ■ CLD Pump Station | — NFHL Levee | — NFHL Control Structure | — Highway | ■ 100-yr Floodplain |
| ○ Populated Place | ● DWR Other Dam | — CLD Local Agency Levee | — NFHL Flood Event Structure | — NFHL Dike | — Major River | ■ 500-yr Floodplain |
| | ● NFHL Dam or Weir | — CLD Other Levee | — NFHL Channel | — NFHL Retaining Wall | ■ Major Water Body | ■ County |

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

100-year and 500-year Floodplains



- City
- Populated Place
- Highway
- ~ Major River
- 100-yr Floodplain
- 500-yr Floodplain
- Major Water Body
- County

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Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1942** January-February, Regional
- 1950-1951** December-March, Truckee River Basin
- 1955-1956** December-January, Christmas Flood
- 1962-1963** December-February, Truckee
- 1964-1965** December-January, Northern California Christmas 1964 Disaster, Truckee River Basin
- 1969-1970** Winter, Winter '69 Storms
- 1982-1983** December-March
- 1986** February, St. Valentine's Day Storm
- 1995** January-March, Severe Winter Storms, Sacramento River Basin, Lake Tahoe
- 1997** January 1-2, Truckee River Basin
- 2006** March 29 - April 1, May 10, Spring Storms
- 2008** January 5-14, Winter Storms

Flood Hazard Exposure

County Statistics

Total Acreage:	623,851
Total Population:	92,066
Total Structures:	47,800
Total Value of Structures and Contents:	\$11.6 billion
Total Agricultural Acreage:	6,358
Total Value of Crops	\$1.0 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	14,159	14,415
Percent of Area Exposed:	2	2
Population Exposed:	1,255	1,704
Percent of Population Exposed:	1	2
Structures Exposed:	739	960
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$156.3 million	\$206.9 million
Exposed Crops (acres)	58	64
Value of Exposed Crops	\$58,401	\$60,189
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	0	0
High Potential Loss Facilities Exposed:	6	6
Lifeline Utilities Exposed:	0	0
Transportation Facilities Exposed:	14	17
Transportation Segments Exposed(miles):	11	12
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	15	15
Total Sensitive Animal Species Exposed:	18	18

Nevada County

Types of Flooding

- | | |
|----------------|------------------------------|
| Likely: | Present: |
| Slow Rise | Debris Flow |
| Flash | Engineered Structure Failure |
| Stormwater | |

Hydrologic Regions



Figure D-57
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Nevada County

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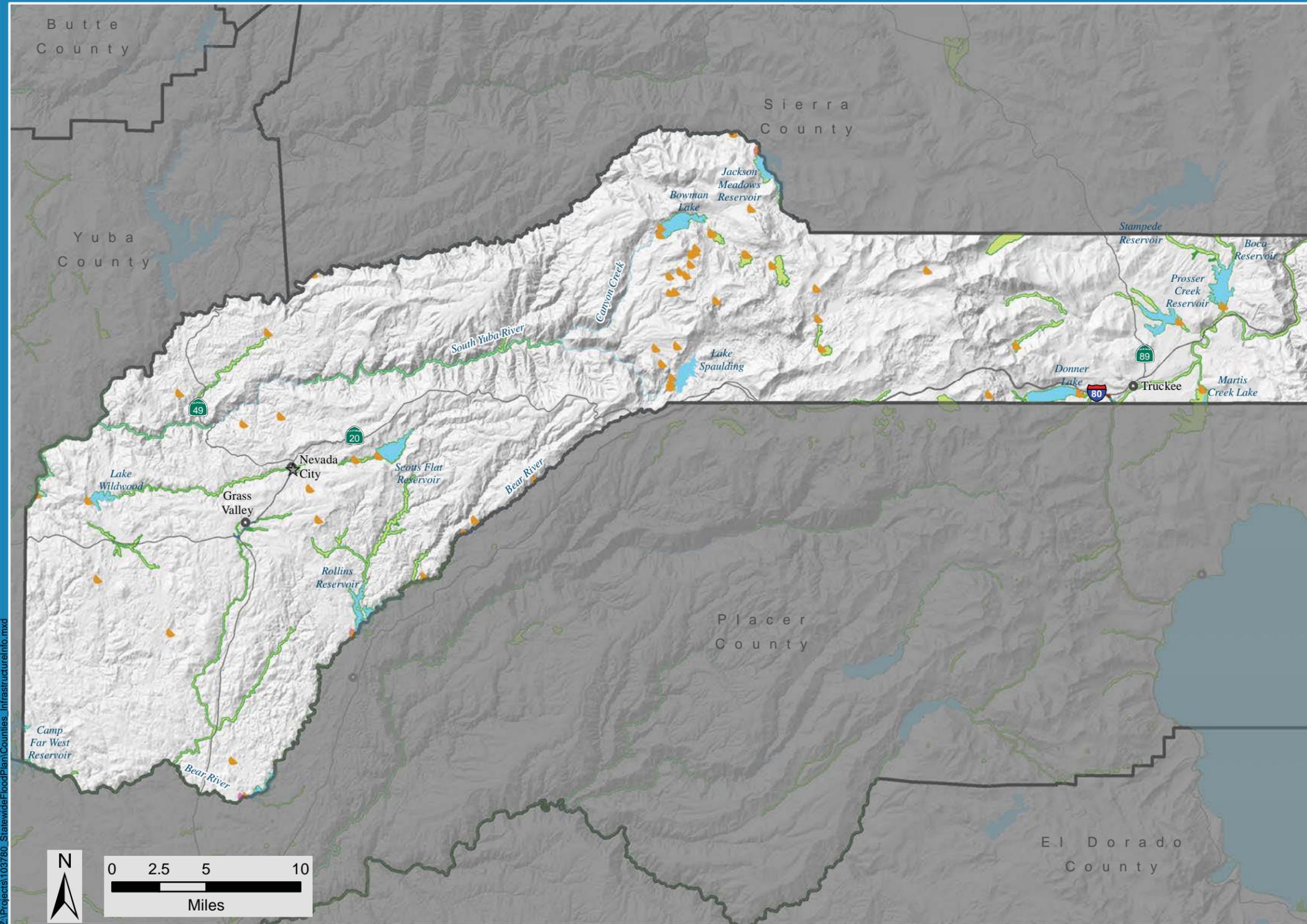
Mar 22, 2013



DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Nevada County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
Dam

Agencies Contacted as Part of SFMP:
Nevada County

Planned Projects:

Number of Local Projects:	5
Estimated Cost of Local Projects:	\$19.1 million
Number of USACE Projects:	1
Estimated Cost of USACE Projects:	\$16.7 million

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Figure D-58
Summary of Available Flood Infrastructure Information, Nevada County

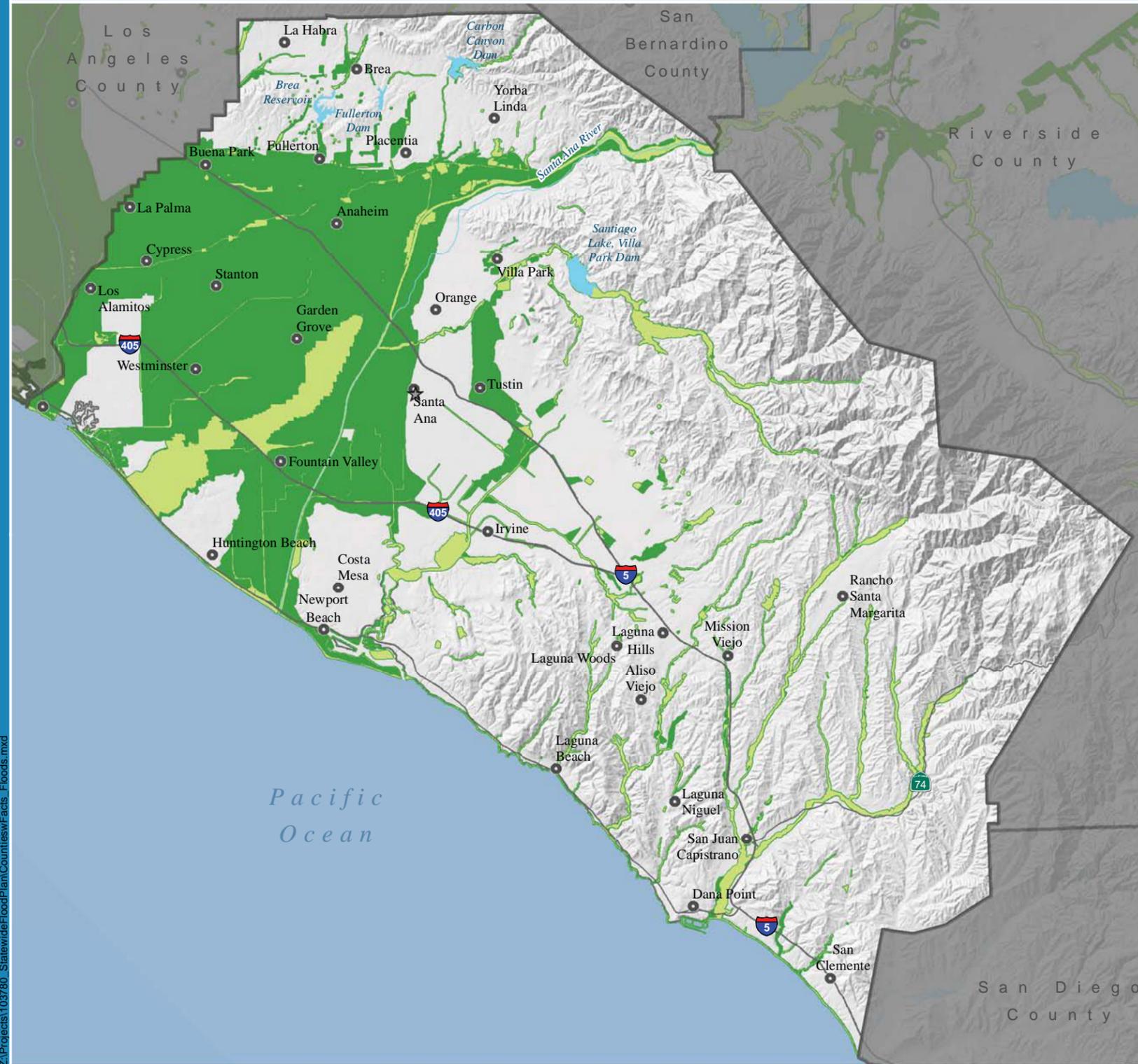
DRAFT Mar 22, 2013

- Statewide GIS Data:**
- City
 - Populated Place
 - DWR Local Agency Dam
 - DWR Other Dam
 - NFHL Dam or Weir
 - CLD Pump Station
 - CLD Local Agency Levee
 - CLD Other Levee
 - NFHL Levee
 - NFHL Flood Event Structure
 - NFHL Channel
 - NFHL Control Structure
 - NFHL Dike
 - NFHL Retaining Wall
 - Highway
 - Major River
 - Major Water Body
 - 100-yr Floodplain
 - 500-yr Floodplain
 - County

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

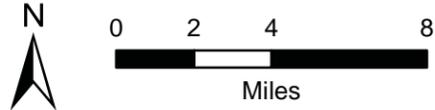
Nevada County

100-year and 500-year Floodplains



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County
 City
 Populated Place
 Highway
 Major River
 Major Water Body
 100-yr Floodplain
 500-yr Floodplain
 County



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood, Santa Ana River
- 1884** February-March, Santiago Creek, Santa Ana River
- 1916** January, Great Flood of 1916, Santa Ana River, City of Santa Ana and Westminster
- 1925** Santa Ana River
- 1927** February, Santa Ana River
- 1938** March, Great Flood, Santa Ana River
- 1958** February-April, Countywide
- 1965** November-December, Regional
- 1969** November-February, Winter '69 Storms, Santa Ana Riv
- 1978** January-March, Countywide
- 1980** January-March, Countywide
- 1993** January-February, Great Flood of 1993, Laguna Canyon Channel
- 1995** January-March, Severe Winter Storms
- 1997** January, Santa Ana River
- 2004-2005** December-January
- 2010** February, Regional Coast Tsunami

Flood Hazard Exposure

County Statistics

Total Acreage:	509,718
Total Population:	2.8 million
Total Structures:	790,500
Total Value of Structures and Contents:	\$274.2 billion
Total Agricultural Acreage:	67,565
Total Value of Crops	\$125.8 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	24,357	122,438
Percent of Area Exposed:	5	24
Population Exposed:	142,298	1.4 million
Percent of Population Exposed:	5	48
Structures Exposed:	37,758	338,076
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$11.6 billion	\$101.4 billion
Exposed Crops (acres):	3,165	10,550
Value of Exposed Crops:	\$4.4 million	\$10.6 million
Department of Defense Facilities Exposed:	4	4
Essential Facilities Exposed:	48	475
High Potential Loss Facilities Exposed:	17	254
Lifeline Utilities Exposed:	1	12
Transportation Facilities Exposed:	131	507
Transportation Segments Exposed (miles):	70	496
Native American Tribal Land Exposed (acres):	0	0
Total Sensitive Plant Species Exposed:	41	41
Total Sensitive Animal Species Exposed:	61	62

Orange County

Types of Flooding

- | | |
|----------------|------------------------------|
| Likely: | Present: |
| Slow Rise | Tsunami |
| Flash | Engineered Structure Failure |
| Debris Flow | |
| Alluvial Fan | |
| Coastal | |
| Stormwater | |

Hydrologic Regions

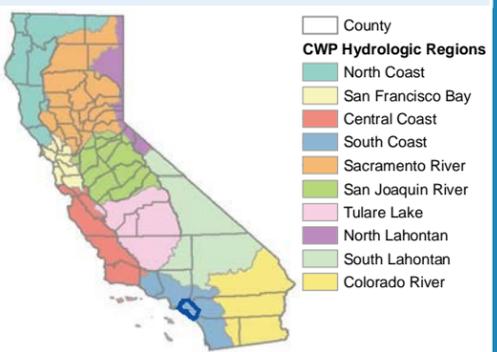


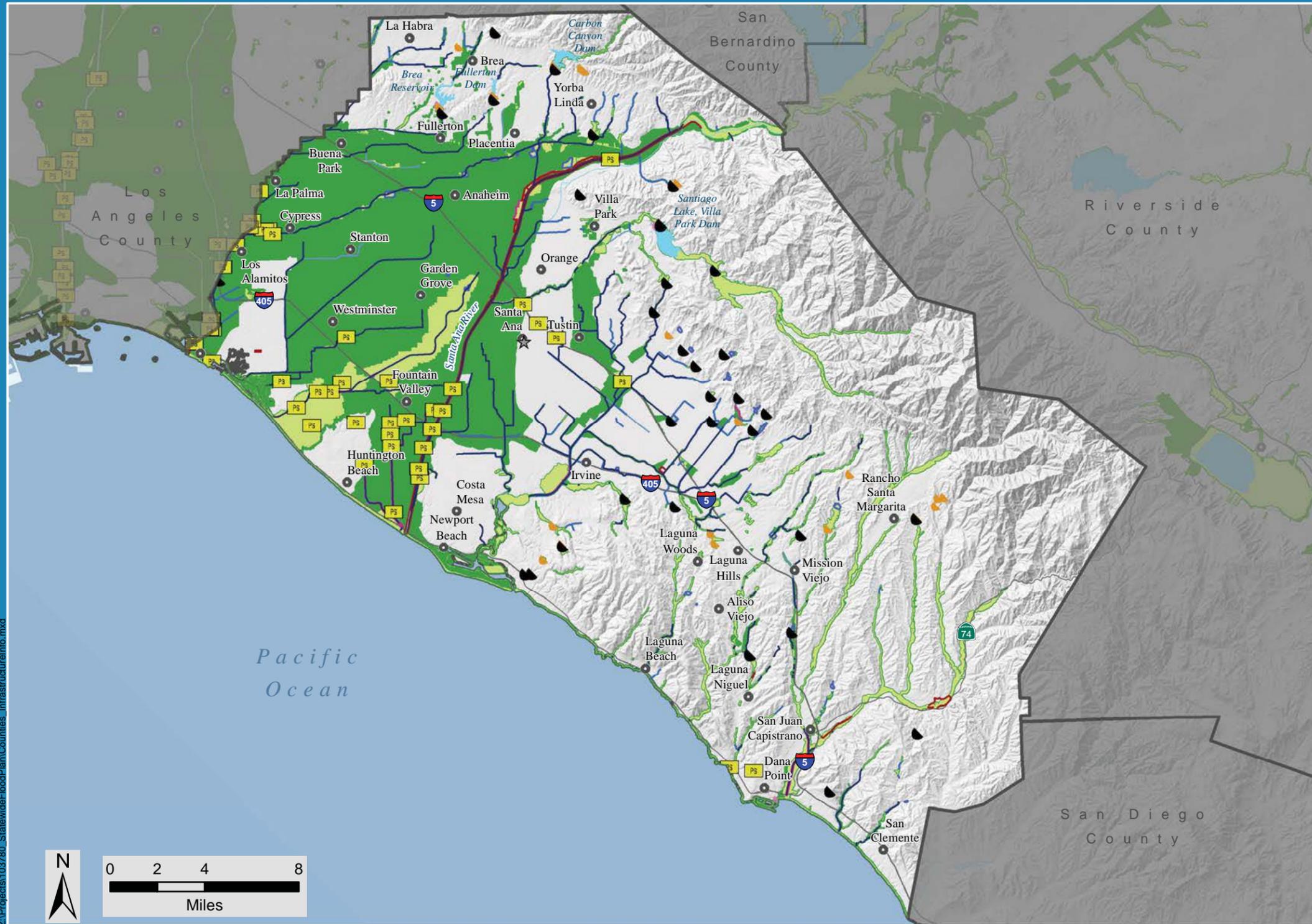
Figure D-59
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Orange County

DRAFT Mar 22, 2013

DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Orange County



- Flood Infrastructure GIS Data Received from Agencies Contacted:**
- Dam
 - Pump Station
 - Drainage Facility, Modified Channel
 - Basin

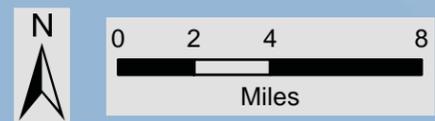
- Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):**
- Pump Station
 - Basin
 - Dam

- Agencies Contacted as Part of SFMP:**
- Orange County Public Works
 - Santa Ana River Flood Protection Agency

Planned Projects:

Number of Local Projects:	38
Estimated Cost of Local Projects:	\$658.5 million
Number of USACE Projects:	6
Estimated Cost of USACE Projects:	\$2.2 billion

Statewide GIS Data Sources:
 Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.



- Statewide GIS Data:**
- | | | | | | | |
|-----------------|----------------------|------------------------|----------------------------|------------------------|------------------|-------------------|
| City | DWR Local Agency Dam | CLD Pump Station | NFHL Levee | NFHL Control Structure | Highway | 100-yr Floodplain |
| Populated Place | DWR Other Dam | CLD Local Agency Levee | NFHL Flood Event Structure | NFHL Dike | Major River | 500-yr Floodplain |
| | NFHL Dam or Weir | CLD Other Levee | NFHL Channel | NFHL Retaining Wall | Major Water Body | County |

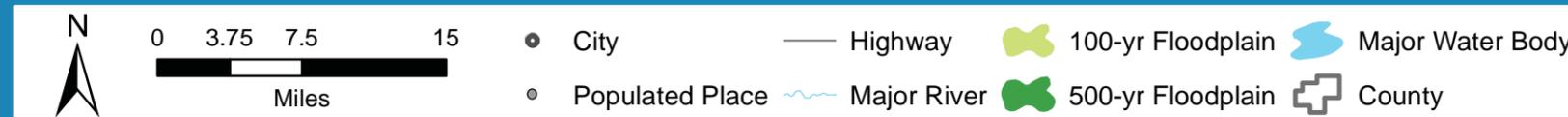
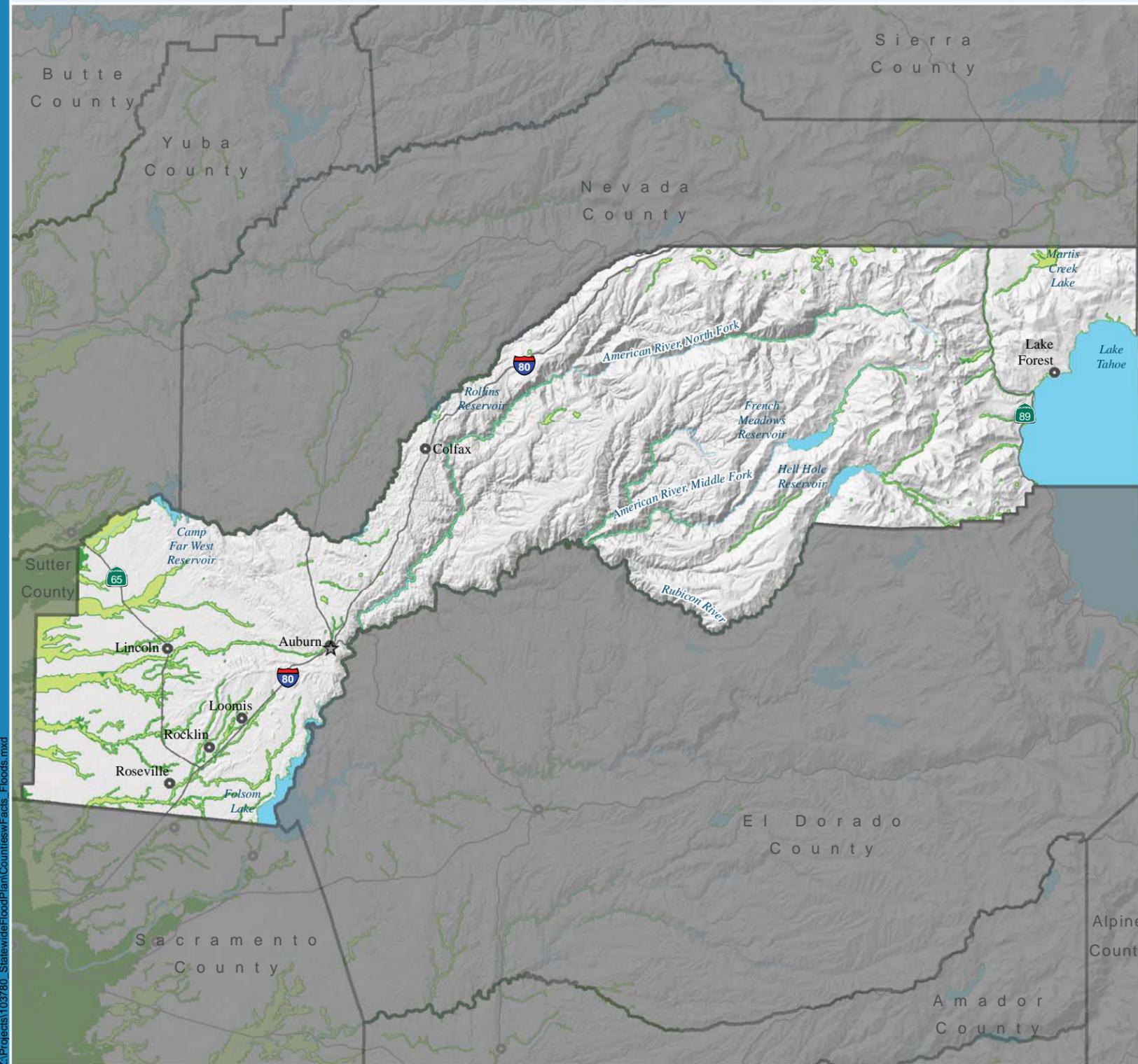
Figure D-60
 Summary of Available Flood Infrastructure Information, Orange County

DRAFT Mar 22, 2013

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Orange County

100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood, Lincoln, Bear River, Auburn Ravine
- 1875** January, Bear River
- 1955-1956** December-January, 1955 Christmas Flood, Countywide
- 1962** October
- 1963** January-February
- 1964-1965** December-January, Northern California Christmas 1964 Disaster
- 1970** Winter, Northern California Flooding
- 1982-1983** December-March, Winter Storms, Linda and Cirby Creeks in Roseville, Dry Creek
- 1986** February, Dry Creek in Roseville, Rocklin and Loomis areas.
- 1995** January-March, Severe Winter Storms, Sacramento River Basin, Countywide
- 1996** South Placer County
- 2005** January, The Pineapple Express Winter Storm 1997 Floods
- 2006** March 29 - April 1, May 10, Spring Storms
- 2008** January 5-14, Winter Storms

Flood Hazard Exposure

County Statistics

Total Acreage:	960,039
Total Population:	248,254
Total Structures:	109,100
Total Value of Structures and Contents:	\$34.0 billion
Total Agricultural Acreage:	51,075
Total Value of Crops:	\$16.4 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	91,103	92,537
Percent of Area Exposed:	9	10
Population Exposed:	8,099	9,351
Percent of Population Exposed:	3	4
Structures Exposed:	3,939	4,502
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$1.3 billion	\$1.5 billion
Exposed Crops:	10,560	10,956
Value of Exposed Crops:	\$4.0 million	\$4.2 million
Department of Defense Facilities Exposure:	1	1
Essential Facilities Exposure:	2	2
High Potential Loss Facilities Exposure:	11	11
Lifeline Utilities Exposure:	0	0
Transportation Facilities Exposure:	47	48
Transportation Segments Exposure (miles):	24	26
Native American Tribal Land Exposure (acres):	0	0
Total Sensitive Plant Species Exposed:	24	24
Total Sensitive Animal Species Exposed:	39	39

Placer County

Types of Flooding

Likely:	Present:
Slow Rise	Engineered Structure Failure
Flash	
Stormwater	
Debris Flow	

Hydrologic Regions



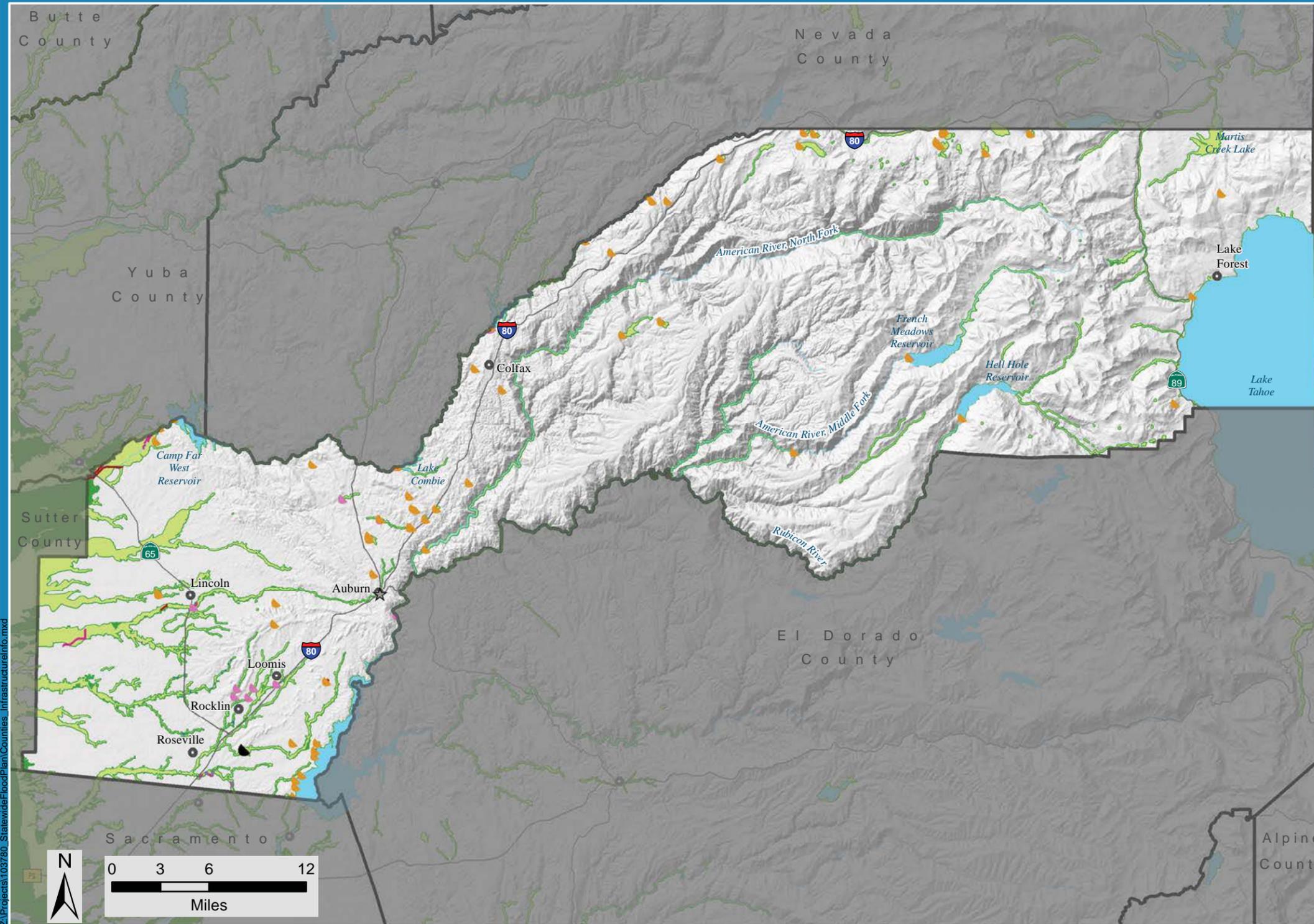
Figure D-61
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Placer County

DRAFT Mar 22, 2013

DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Placer County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
Levee
Channel

Agencies Contacted as Part of SFMP:
Placer County Flood Control and Water Conservation District

Planned Projects:
Number of Local Projects: 6
Estimated Cost of Local Projects: \$20.7 million
Number of USACE Projects: 0
Estimated Cost of USACE Projects: none

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. Populated Places from GNIS, 2011. Counties from CalAtlas, 2009. Dams modified from DWR, Bulletin 17-00, 2000. CLD layers are from California Levee Database, v2.2 r2, 2010. NFHL layers are from the National Flood Hazard Layer, FEMA, August 2011. Highways from TeleAtlas, 2004. Rivers and Lakes modified from DFG, N/A. Floodplains compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Placer County

Statewide GIS Data:

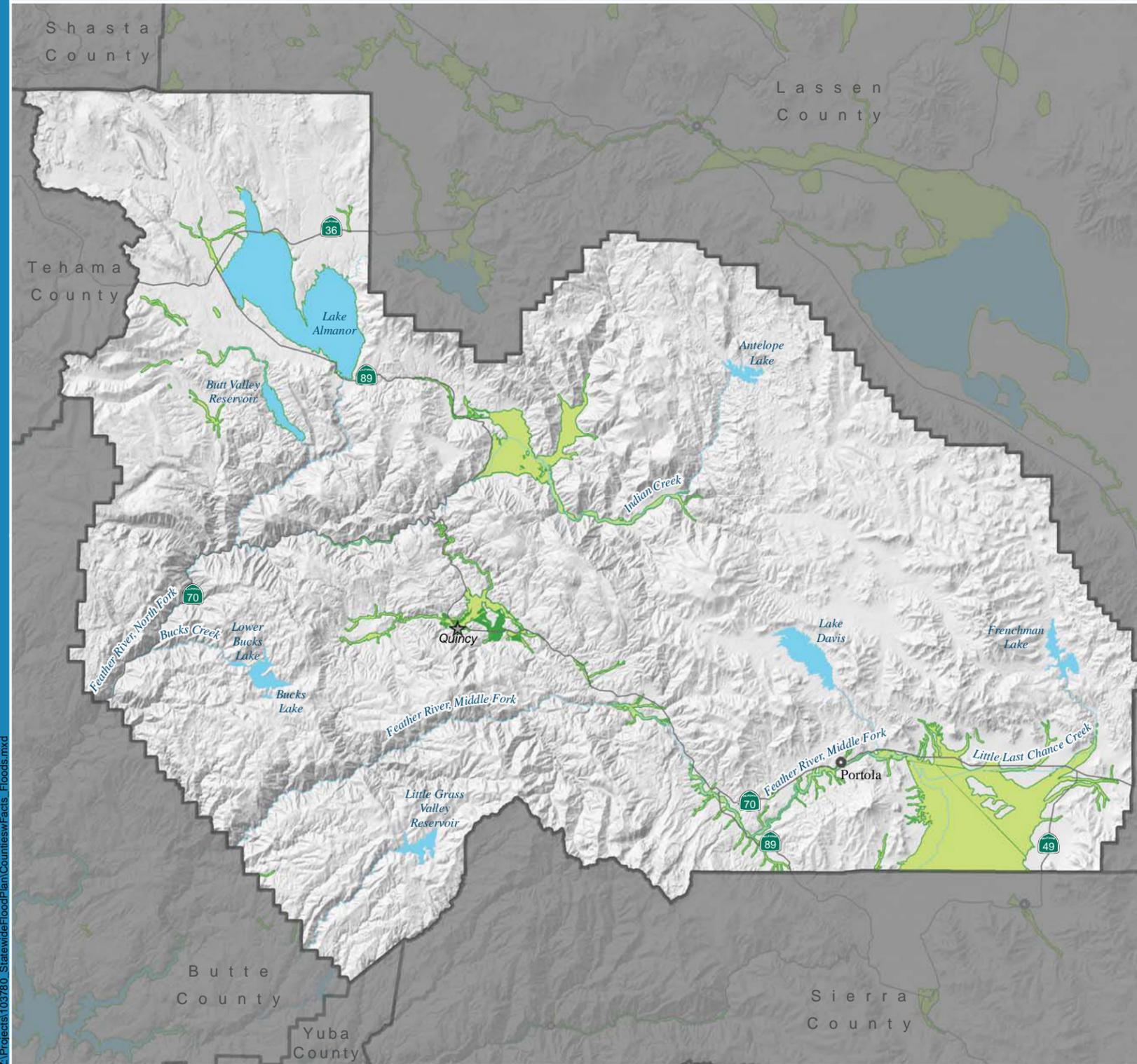
● City	● DWR Local Agency Dam	PS CLD Pump Station	~ NFHL Levee	~ NFHL Control Structure	~ Highway	100-yr Floodplain
○ Populated Place	● DWR Other Dam	~ CLD Local Agency Levee	~ NFHL Flood Event Structure	~ NFHL Dike	~ Major River	500-yr Floodplain
	~ NFHL Dam or Weir	~ CLD Other Levee	~ NFHL Channel	~ NFHL Retaining Wall	~ Major Water Body	County

Figure D-62
Summary of Available Flood Infrastructure Information, Placer County

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DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

100-year and 500-year Floodplains



Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1937-1938** December-March, Countywide
- 1942** January-February, Countywide
- 1955-1956** December-January, 1955 Christmas Flood, Feather River
- 1963** January-February
- 1964-1965** December-January, Northern California Christmas 1964 Disaster
- 1969** January, Winter '69 Storms, Countywide
- 1971** Summer, Willow Creek
- 1986** February, St. Valentine's Day Storm
- 1993** January, Late Winter Storms
- 1995** January-March, Severe Winter Storms Sacramento River Basin
- 1996-1997** December-January, Countywide

Flood Hazard Exposure

County Statistics

Total Acreage:	1.7 million
Total Population:	20,828
Total Structures:	15,400
Total Value of Structures and Contents:	\$2.9 billion
Total Agricultural Acreage:	41,918
Total Value of Crops:	\$2.4 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	84,763	86,195
Percent of Area Exposed:	5	5
Population Exposed:	1,454	3,126
Percent of Population Exposed:	7	15
Structures Exposed:	1,118	1,950
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$231.4 million	\$386.2 million
Exposed Crops (acres):	23,115	23,804
Value of Exposed Crops:	\$1.1 million	\$1.1 million
Department of Defense Facilities Exposed:	0	0
Essential Facilities Exposed:	2	6
High Potential Loss Facilities Exposed:	14	14
Lifeline Utilities Exposed:	0	0
Transportation Facilities Exposed:	45	48
Transportation Segments Exposed (miles):	28	32
Native American Tribal Land Exposed (acres):	409	409
Total Sensitive Plant Species Exposed:	31	31
Total Sensitive Animal Species Exposed:	20	20

Plumas County

Types of Flooding

Likely:	Present:
Slow Rise	Alluvial Fan
Flash	Engineered Structure Failure
Stormwater	
Debris Flow	

Hydrologic Regions



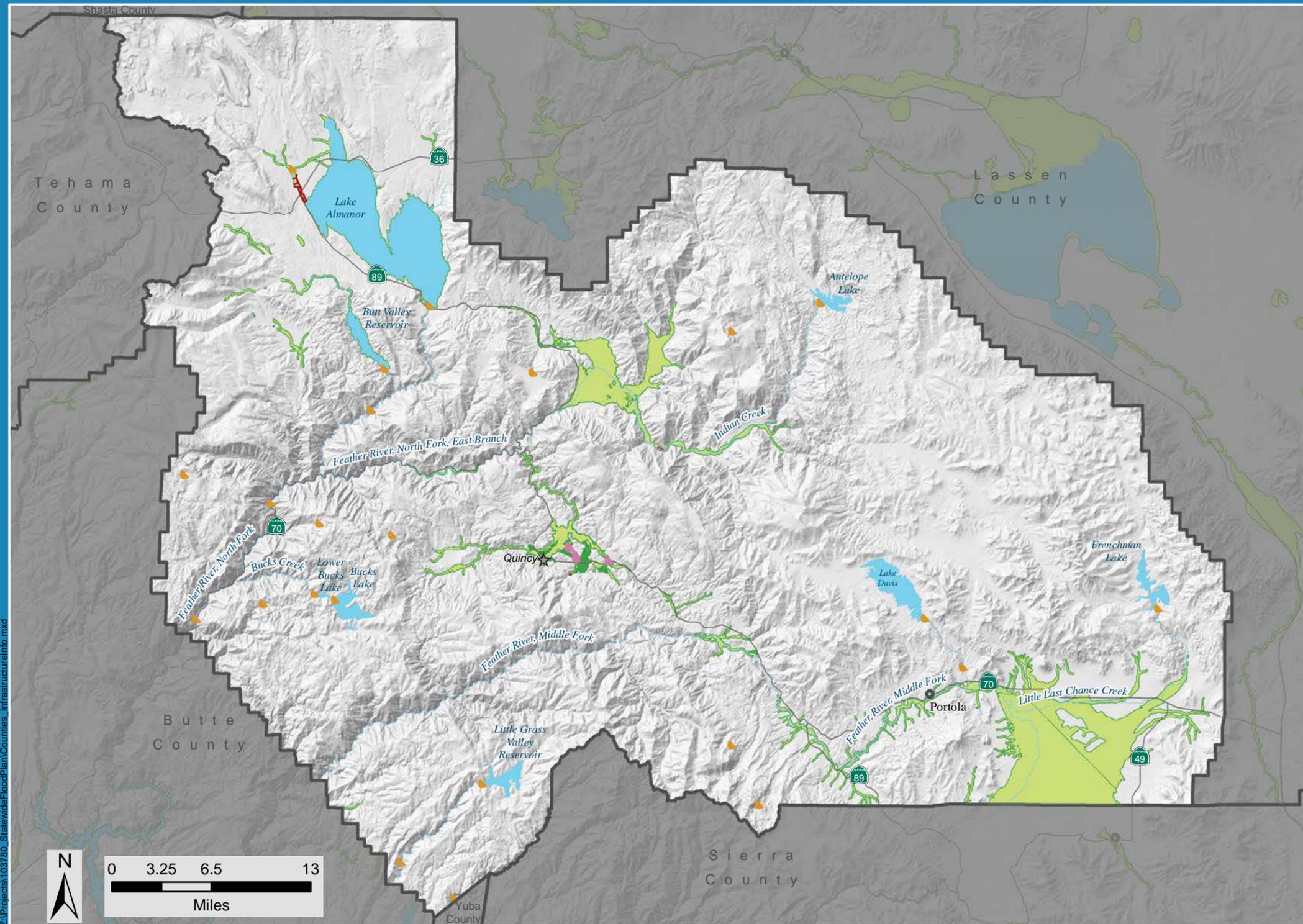
Figure D-63
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Plumas County

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DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Summary of Available Flood Infrastructure Information

Plumas County



Flood Infrastructure GIS Data Received from Agencies Contacted:
No Flood Infrastructure GIS Data Received

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):
No PDF/Hard Copy Data Received

Agencies Contacted as Part of SFMP:
Plumas County Public Works
Plumas County Flood Control and Water Conservation District
Feather River Coordinated Resource Management, Plumas Corporation

Planned Projects:
Number of Local Projects: 10
Estimated Cost of Local Projects: \$4.7 million
Number of USACE Projects: 0
Estimated Cost of USACE Projects: none

Statewide GIS Data Sources:
Cities derived from CAL FIRE incorporated city limit polygons, 2010. Populated Places from GNIS, 2011. Counties from CalAtlas, 2009. Dams modified from DWR, Bulletin 17-00, 2000. CLD layers are from California Levee Database, v2.2 r2, 2010. NFHL layers are from the National Flood Hazard Layer, FEMA, August 2011. Highways from TeleAtlas, 2004. Rivers and Lakes modified from DFG, N/A. Floodplains compiled for SFMP, 2011.
All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.

Plumas County

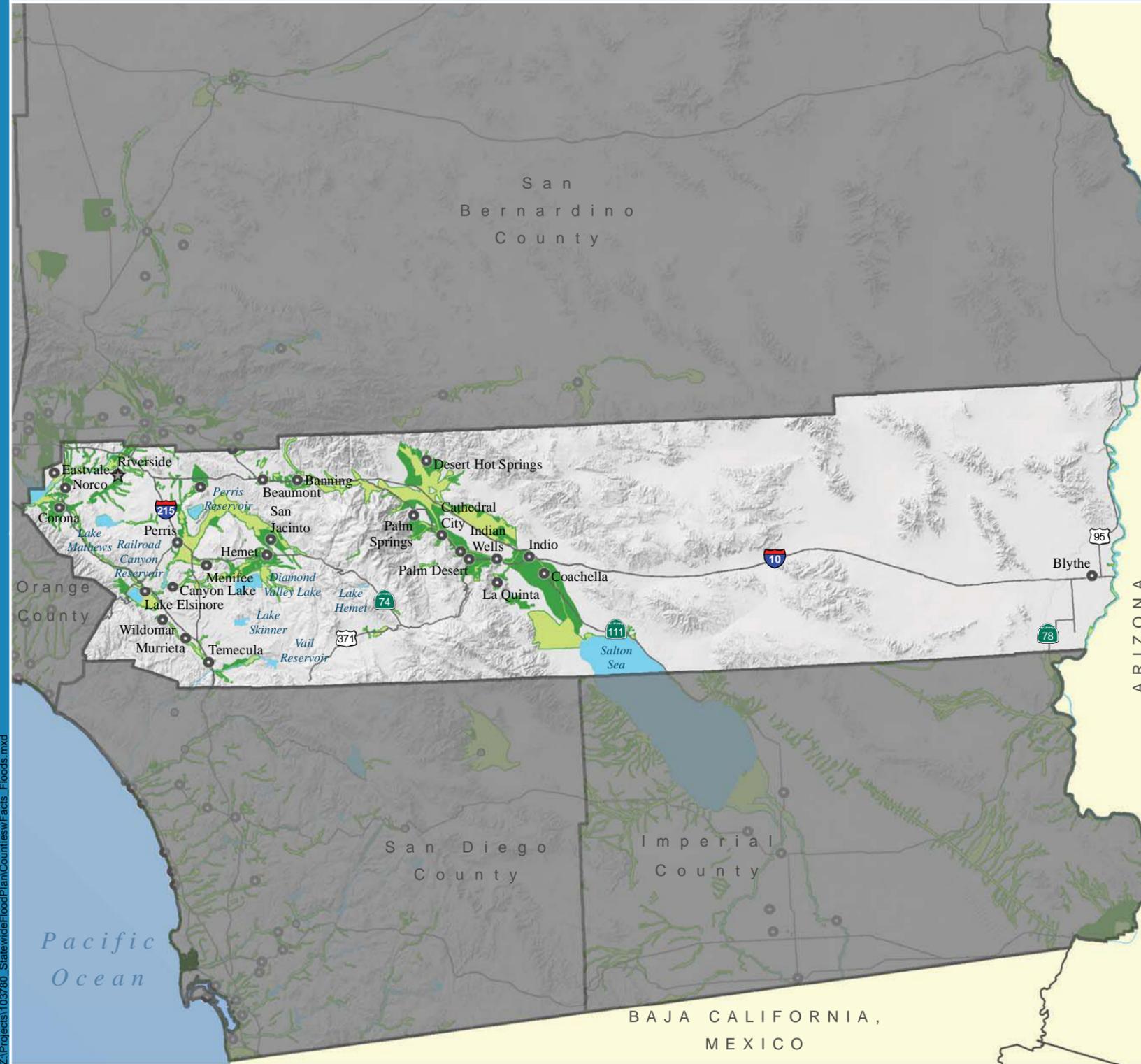
Figure D-64
Summary of Available Flood Infrastructure Information, Plumas County

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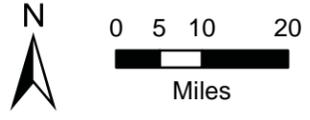
- Statewide GIS Data:**
- City
 - Populated Place
 - DWR Local Agency Dam
 - DWR Other Dam
 - NFHL Dam or Weir
 - CLD Pump Station
 - CLD Local Agency Levee
 - CLD Other Levee
 - NFHL Levee
 - NFHL Flood Event Structure
 - NFHL Channel
 - NFHL Control Structure
 - NFHL Dike
 - NFHL Retaining Wall
 - Highway
 - Major River
 - Major Water Body
 - 100-yr Floodplain
 - 500-yr Floodplain
 - County

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

100-year and 500-year Floodplains



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- City
- Populated Place
- Highway
- ~ Major River
- 100-yr Floodplain
- 500-yr Floodplain
- Major Water Body
- County

Selected Flood Events by Event Year

- 1861-1862** Winter, The Great Flood
- 1916** January, Great Flood of 1916, Santa Ana River
- 1925** Santa Ana River
- 1927** February, San Jacinto River, Whitewater River
- 1938** March, Great Flood, Santa Ana River, City of Riverside, Whitewater River, Palm Springs
- 1965** November-December, Countywide, Cottonwood Creek near I-10
- 1969** January-February, Winter '69 Storms,
- 1976** September, Tropical Storm Kathleen, Whitewater River, Coachella, Imperial, and Palo Verde Valleys
- 1980** January-March, San Jacinto River, Western Riverside County
- 1982-1983** December-January, Winter Storms
- 1993** January-February, Great Flood of 1993, Western County, Murrieta Creek
- 1995** January-March, Severe Winter Storms
- 2005** January
- 2010** December, Winter Storms, Western County
- 2011** January

Flood Hazard Exposure

County Statistics

Total Acreage:	4.7 million
Total Population:	1.5 million
Total Structures:	560,500
Total Value of Structures and Contents:	\$134.7 billion
Total Agricultural Acreage:	221,540
Total Value of Crops:	\$520.0 million

Summary of Exposure to Flood Hazard Reported by County

	100-yr Event	500-yr Event
Exposed Area (acres):	159,192	272,444
Percent of Area Exposed:	3	6
Population Exposed:	49,486	377,503
Percent of Population Exposed:	3	24
Structures Exposed:	22,494	145,540
Total Depreciated Replacement Value of Exposed Structures and Contents:	\$4.6 billion	\$32.9 billion
Exposed Crops (acres)	26,433	41,888
Value of Exposed Crops:	\$57.1 million	\$107.2 million
Department of Defense Facilities Exposed:	1	1
Essential Facilities Exposed:	27	192
High Potential Loss Facilities Exposed:	8	24
Lifeline Utilities Exposed:	7	25
Transportation Facilities Exposed:	113	248
Transportation Segments Exposed (miles):	104	305
Native American Tribal Land Exposed (acres):	14,302	22,467
Total Sensitive Plant Species Exposed:	70	77
Total Sensitive Animal Species Exposed:	106	113

Types of Flooding

Likely:	Present:
Slow Rise	Engineered Structure Failure
Flash	
Debris Flow	
Alluvial Fan	
Stormwater	

Hydrologic Regions

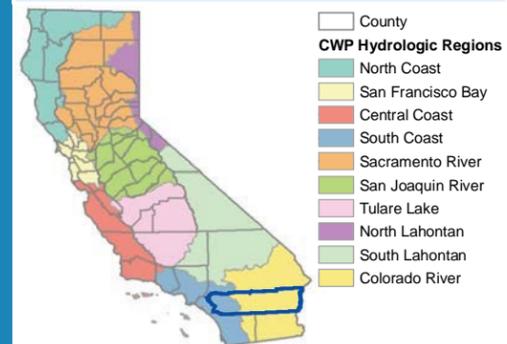


Figure D-65
Summary of Available Flood Types, Flood History, and Flood Hazard Exposure, Riverside County

DRAFT

Mar 22, 2013

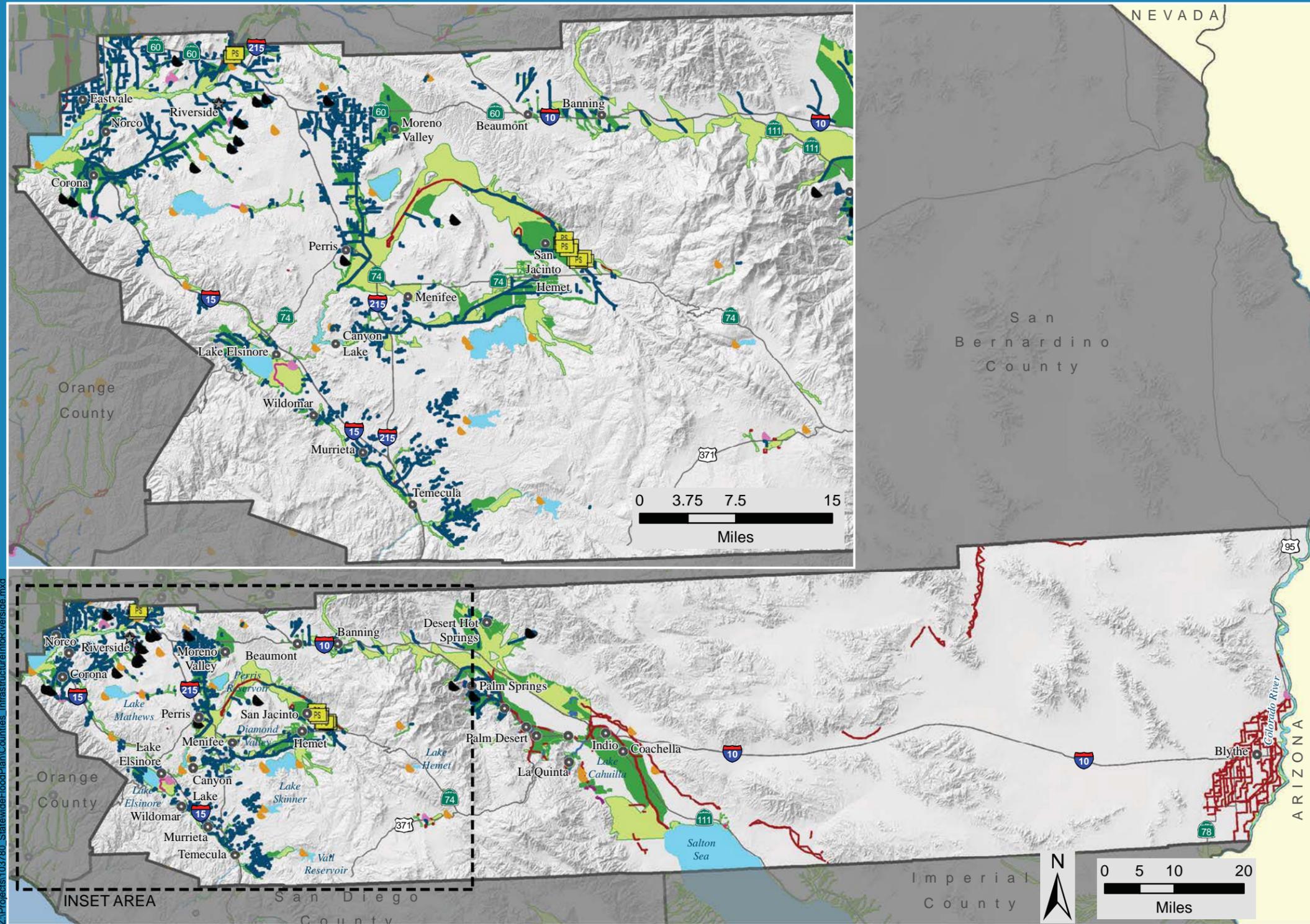


DISCLAIMER: The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Riverside County

Summary of Available Flood Infrastructure Information

Riverside County



Flood Infrastructure GIS Data Received from Agencies Contacted:

- Flood Control Facility

Non-GIS, PDF/Hard Copy Flood Infrastructure Data Received from Agencies Contacted (Not Shown On Map):

- Levee
- Channel
- Dam
- Debris Basin
- Dike
- Storm Drains

Agencies Contacted as Part of SFMP:

- Riverside County Flood Control and Water Conservation District
- Coachella Valley Water District

Planned Projects:

Number of Local Projects:	116
Estimated Cost of Local Projects:	\$563.8 million
Number of USACE Projects:	4
Estimated Cost of USACE Projects:	\$138.8 million

Statewide GIS Data Sources:

Cities derived from CAL FIRE incorporated city limit polygons, 2010. **Populated Places** from GNIS, 2011. **Counties** from CalAtlas, 2009. **Dams** modified from DWR, Bulletin 17-00, 2000. **CLD** layers are from California Levee Database, v2.2 r2, 2010. **NFHL** layers are from the National Flood Hazard Layer, FEMA, August 2011. **Highways** from TeleAtlas, 2004. **Rivers** and **Lakes** modified from DFG, N/A. **Floodplains** compiled for SFMP, 2011. **All other Flood Infrastructure GIS data, noted above, received from Agencies Contacted.**

Figure D-66
Summary of Available Flood Infrastructure Information, Riverside County

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Statewide GIS Data:	DWR Local Agency Dam	CLD Pump Station	NFHL Levee	NFHL Control Structure	Highway	100-yr Floodplain
City	DWR Other Dam	CLD Local Agency Levee	NFHL Flood Event Structure	NFHL Dike	Major River	500-yr Floodplain
Populated Place	NFHL Dam or Weir	CLD Other Levee	NFHL Channel	NFHL Retaining Wall	Major Water Body	County

DISCLAIMER: 1) Information displayed on the map does not represent all existing flood infrastructure in the county. Only infrastructure available as "Statewide GIS Data" or submitted in a GIS format by one of the interviewed agencies is shown. 2) The DWR did not develop all the displayed floodplain extents and cannot guarantee their accuracy.

Riverside County