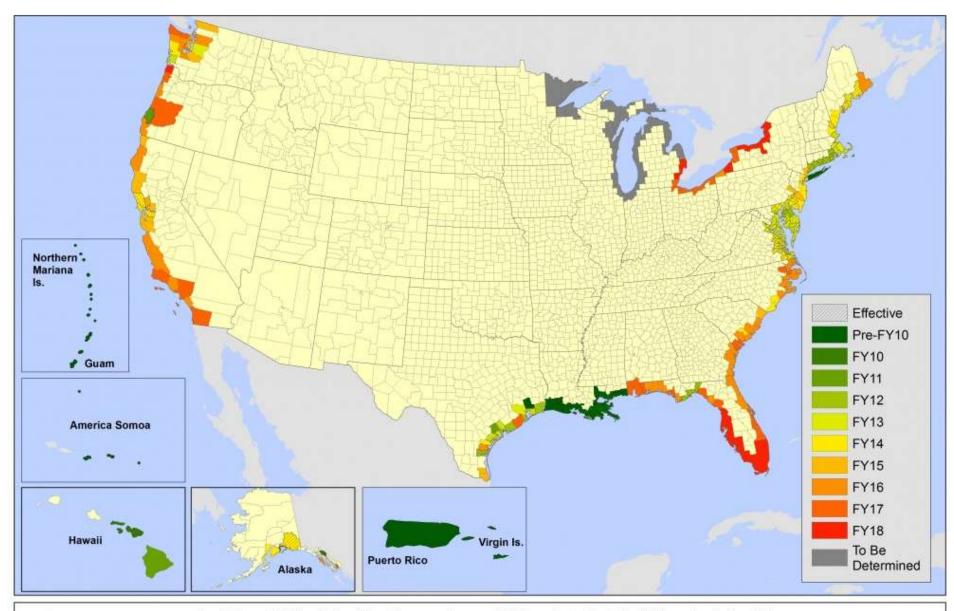


Prioritizing Re-Mapping and Analyses of Rivermouths in California Coastal Areas

Just as a drop of water in the ocean cannot avail much; but if a great river runneth into it, that maketh a great commotion

Jakob Bohme (German Theologian b.1575)



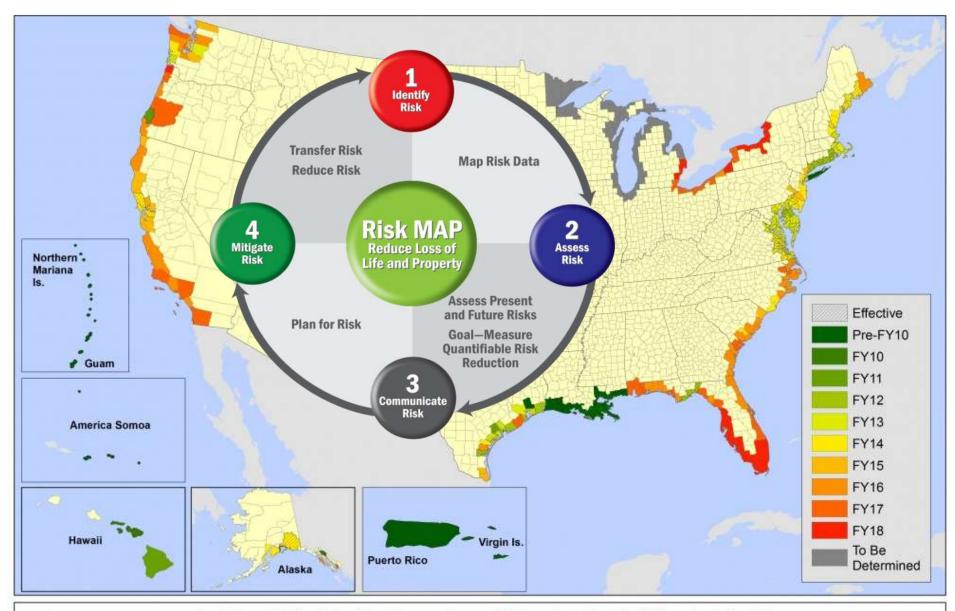




A preliminary FIRM is a National Flood Insurance Program (NFIP) map that reflects the initial results of a flood risk project that is performed by or for FEMA. FIRMs are tracked by fiscal year (FY), which is October through September. Data is updated quarterly and therefore subject to change.

For more information, please call 1-877-FEMA MAP (1-877-336-2627), email FEMAMapSpecialist@riskmapcds.com, or visit https://www.fema.gov/coastal-flood-risks







A preliminary FIRM is a National Flood Insurance Program (NFIP) map that reflects the initial results of a flood risk project that is performed by or for FEMA. FIRMs are tracked by fiscal year (FY), which is October through September. Data is updated quarterly and therefore subject to change.

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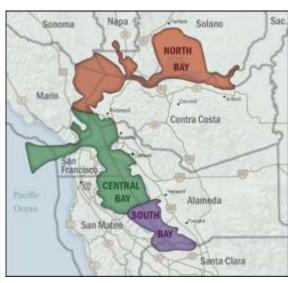




Barbara

Ventura Los Angeles Orange

San Diego









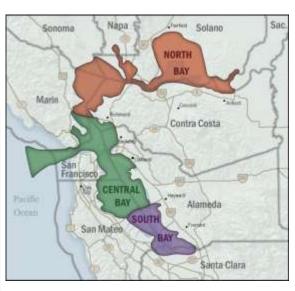




Barbara

Ventura Los **Angeles** Orange

San Diego





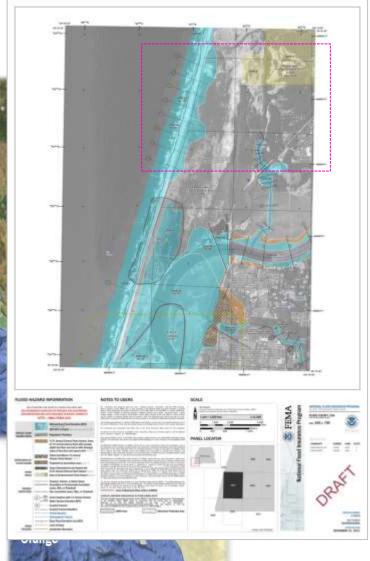




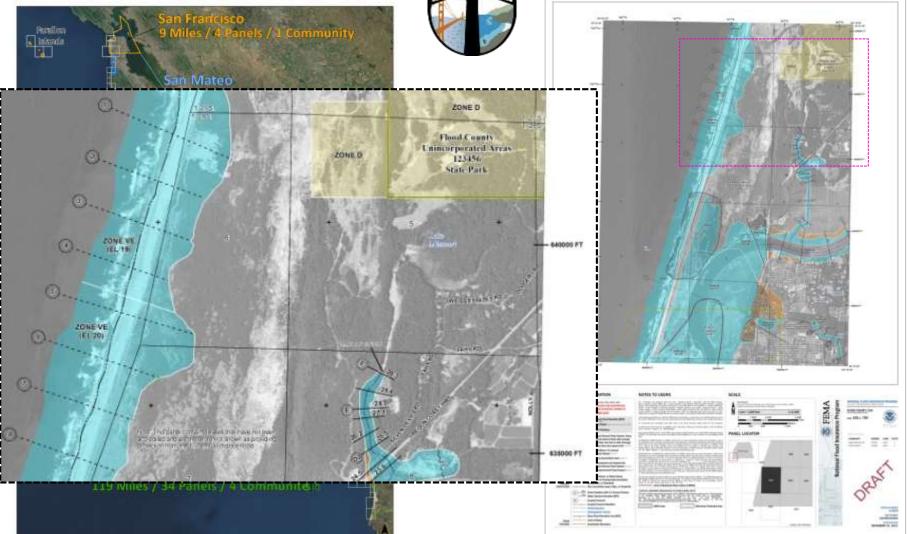
San Diego























SANTA CRUZ COUNTY, CALIFORNIA

AND INCORPORATED AREAS

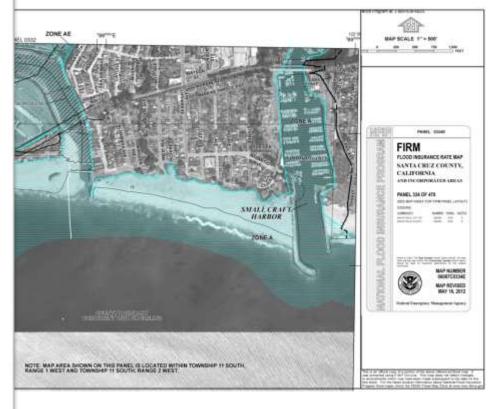
Community Name	Community Number
CAPITOLA, CITY OF	060354
SANTA CRUZ, CITY OF	060358
SANTA CRUZ COUNTY (UNINCORPORATED AREAS)	060353
SCOTTS VALLEY, CITY OF	060356
WATSONVILLE, CITY OF	060357





Federal Emergency Management Agency

FLOCO INSURANCE STUDY NUMBER 06087CV0008





SANTA CRUZ COUNTY. CALIFORNIA

AND INCORPORATED AREAS

Community Name	Community Number
CAPITOLA, CITY OF	060354
SANTA CRUZ, CITY OF	060355
SANTA CRUZ COUNTY (UNINCORPORATED AREAS)	060353
SCOTTS VALLEY, CITY OF	060356
WATSONVILLE, CITY OF	060357





ederal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER

FLOOD INSURANCE STUDY

VOLUME 1 OF 3



SANTA CRUZ COUNTY, CALIFORNIA

AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
CAPITOLA, CITY OF	060354
SANTA CRUZ, CITY OF	060355
SANTA CRUZ COUNTY UNINCORPORATED AREAS	060353
SCOTTS VALLEY, CITY OF	060356
WATSONVILLE, CITY OF	060357



REVISED PRELIMINARY OCT 31, 2016

REVISED:

FLOOD INSURANCE STUDY NUMBER 06087CV001C

Version Number 2.5.2.1



SANTA CRUZ COUNTY, CALIFORNIA AND INCORPORATED AREAS

Community Name	Number
CAPITOLA, CITY OF	060354
SANTA CRUZ, CITY OF	060358
SANTA CRUZ COUNTY (UNINCORPORATED AREAS)	060353
SCOTTS VALLEY, CITY OF	060356

WATSONVILLE_CITY OF 060357 Santa Cruz
County

REVISED May 16, 2012



Federal Emergency Manage

FLOOD INSURANCE STUDY NO 06087CV000B

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 1 OF 3



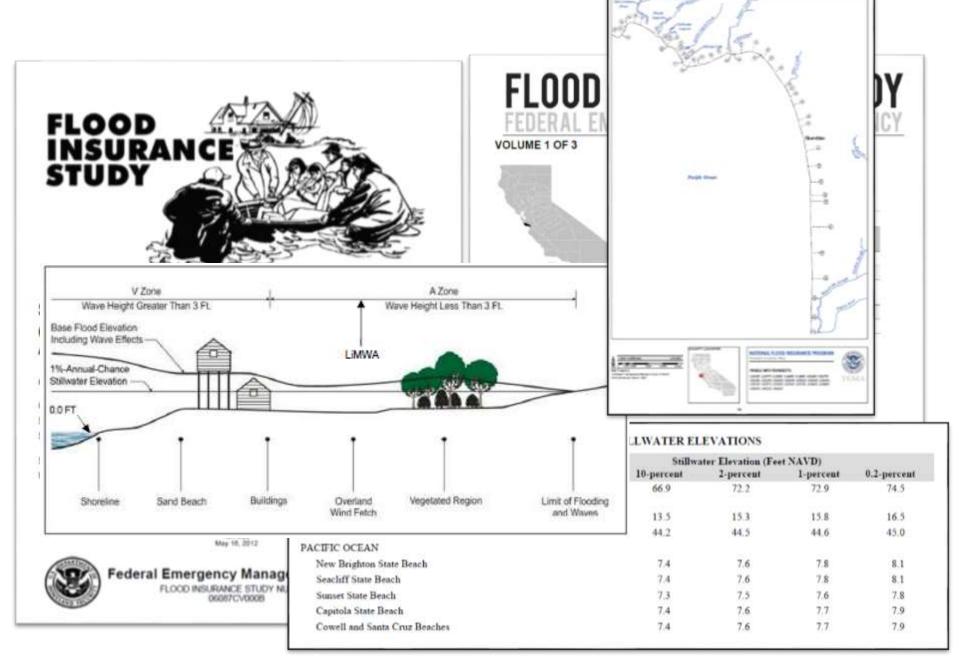
SANTA CRUZ COUNTY, CALIFORNIA

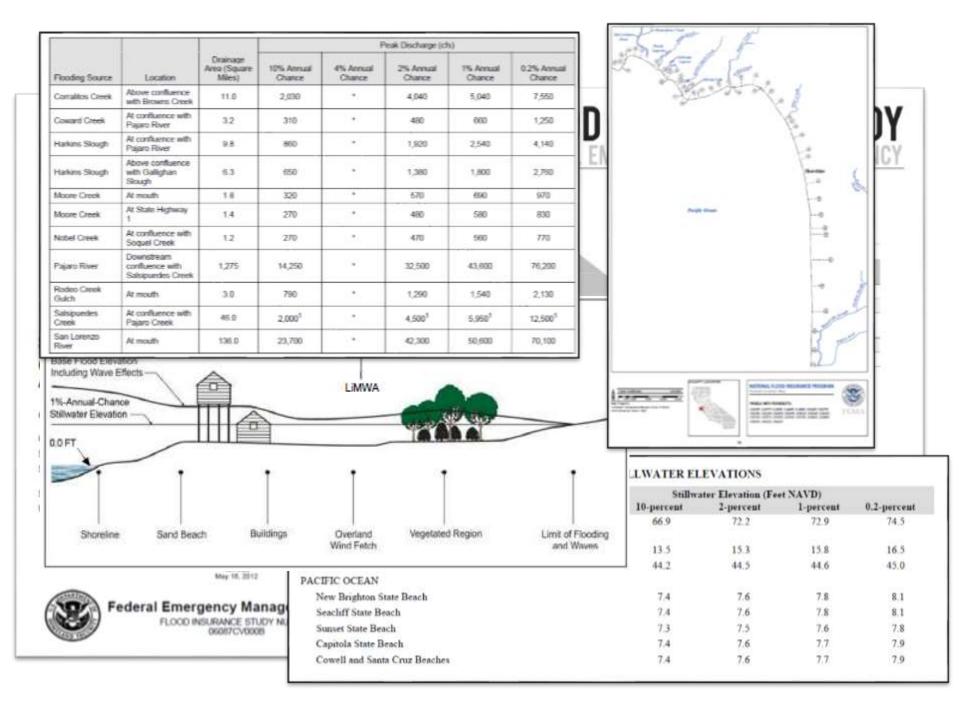
AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY
CAPITOLA, CITY OF	060354
SANTA CRUZ, CITY OF	060355
SANTA CRUZ COUNTY UNINCORPORATED AREAS	060353
SCOTTS VALLEY, CITY OF	060356
WATSONVILLE, CITY OF	060357

TABLE 6: SUMMARY OF STILLWATER ELEVATIONS

Stillwa			
10-percent	2-percent	1-percent	0.2-percent
66.9	72.2	72.9	74.5
13.5	15.3	15.8	16.5
44.2	44.5	44.6	45.0
7.4	7.6	7.8	8.1
7.4	7.6	7.8	8.1
7.3	7.5	7.6	7.8
7.4	7.6	7.7	7.9
7.4	7.6	7.7	7.9
	10-percent 66.9 13.5 44.2 7.4 7.4 7.3 7.4	10-percent 2-percent 66.9 72.2 13.5 15.3 44.2 44.5 7.4 7.6 7.4 7.6 7.3 7.5 7.4 7.6	66.9 72.2 72.9 13.5 15.3 15.8 44.2 44.5 44.6 7.4 7.6 7.8 7.4 7.6 7.8 7.3 7.5 7.6 7.4 7.6 7.7





		200 (200)	Peak Discharge (ch)					
Flooding Source Location	Drainage Area (Square Miles)	10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance		
Cornalities Creek	Above confluence with Browns Creek	11.0	2,030).*):	4,040	5,040	7,550	
Coward Creek	At confluence with Pagaro River	3.2	310	*	480	660	1,250	
Harkins Slough	At confluence with Pagaro River	9.8	860	0.00	1,930	2,548	4,140	
Harkins Slough	Above confluence with Gallighan Slough	6.3	650	141	1,380	1,800	2,760	
Moore Creek	At mouth	1.8	320		570	690	970	
Moore Creek	At State Highway 1	1.4	270	0.00	480	580	830	



LOCAT	ION		FLOODWAY		1% ANNUAL CH	IANCE FLOOD W		ELEVATION
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A B C D E F G H I J K L M N O P Q R S T	938 1,062 1,812 2,952 3,354 4,559 4,745 5,933 6,099 7,686 7,948 9,303 10,388 10,677 11,991 13,016 16,428 17,903 18,578 19,558	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 400 399 400 260 237 246 234	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 5,148 5,194 5,431 3,184 3,347 5,248 3,133	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4.6 13.9 8.8 14.8	13.0 13.1 14.2 15.8 16.9 20.6 21.0 23.8 24.1 25.2 27.2 28.0 28.7 30.3 32.6 34.3 39.9 45.5 51.6 51.8	13.0 13.1 14.2 15.8 16.9 20.6 21.0 23.8 24.1 25.2 27.2 28.0 28.7 30.3 32.6 34.3 39.9 45.5 51.6 51.8	2 2 2 2 2 2 2 2 2 2 2 2 30.3 32.6 34.3 40.6 45.7 51.6 52.0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0.0 0.0
V W	20,898 21,828 23,088	240 233 234	3,097 4,326 3,963	13.0 10.7 11.7	57.4 63.6 65.8	57.4 62.8 65.8	58.0 64.2 66.8	0.6 1.4 1.0

¹Feet above mouth at Pacific Ocean (Monterey Bay)

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY	
SANTA CRUZ COUNTY, CALIFORNIA	
AND INCORPORATED AREAS	

FLOODWAY DATA

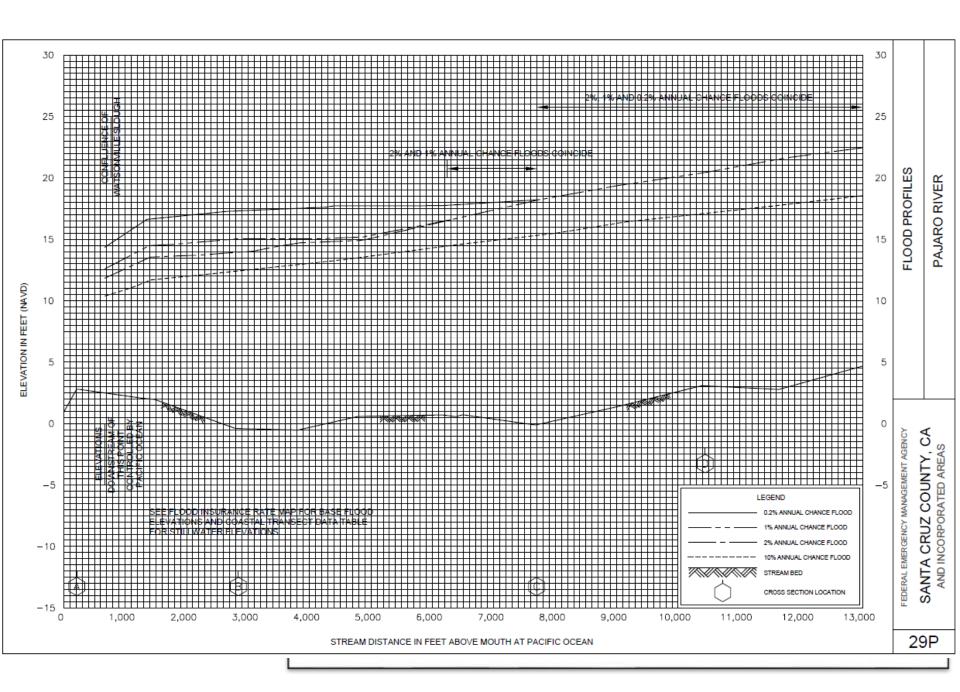
FLOODING SOURCE: SAN LORENZO RIVER

_			- 028	K
Miles Miles	PROFESSION .		1/2	7
===		-		

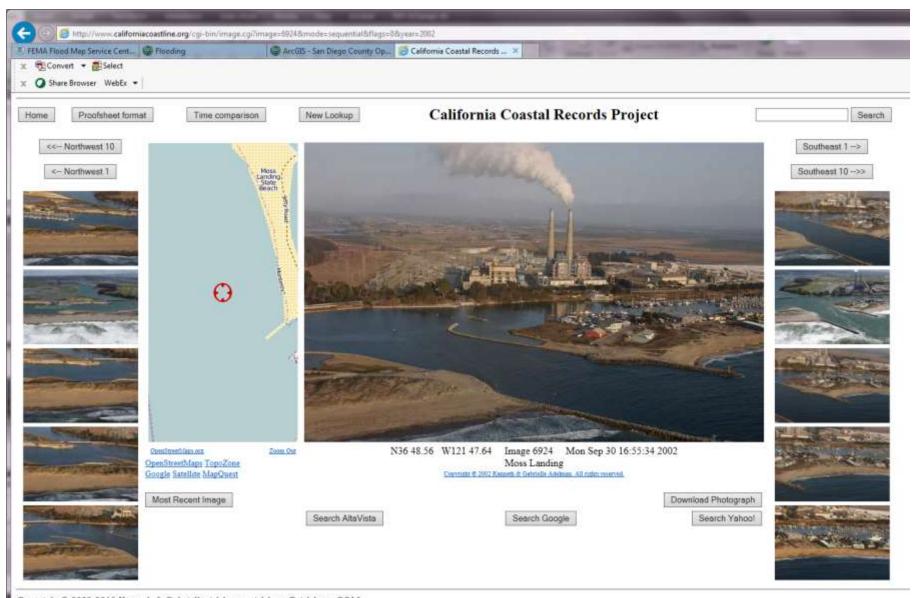
IONS

ration (Fee	et NAVD)		
ercent	1-percent	0.2-percent	
72.2	72.9	74.5	
5.3	15.8	16.5	
4.5	44.6	45.0	
7.6	7.8	8.1	
7.6	7.8	8.1	
7.5	7.6	7.8	
7.6	7.7	7.9	
7.6	7.7	7.9	

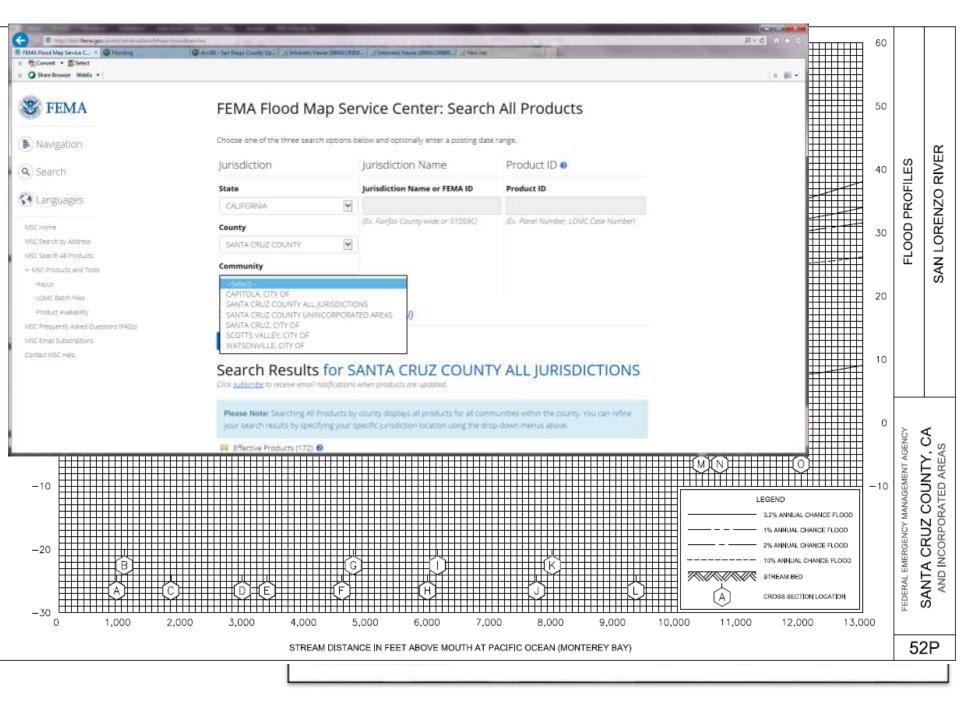
²Floodway computed without consideration of levee

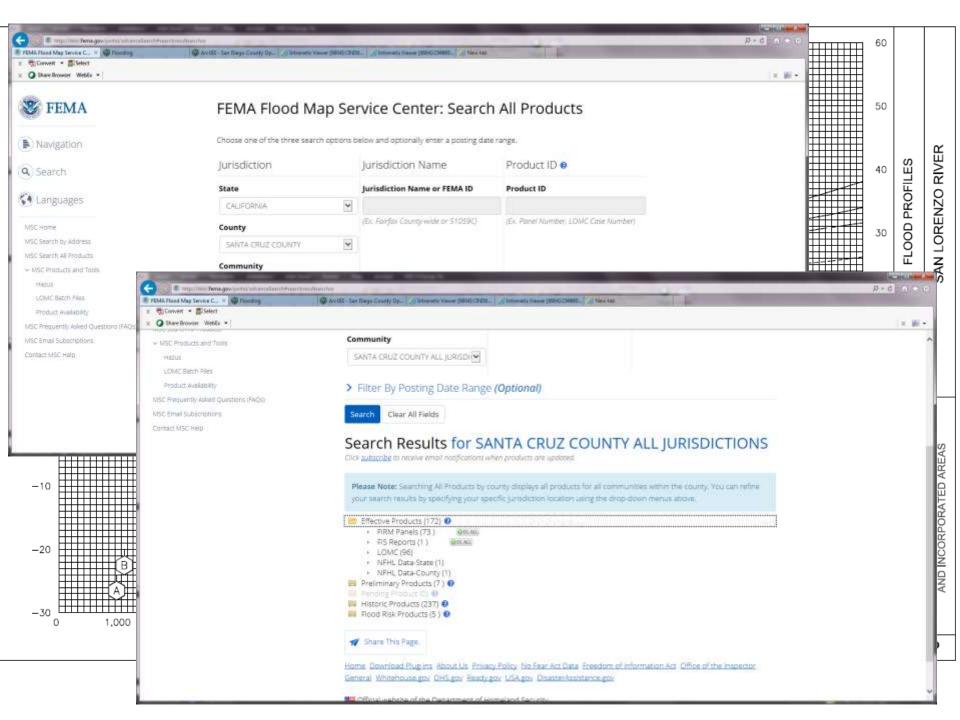






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San Luis Obispo





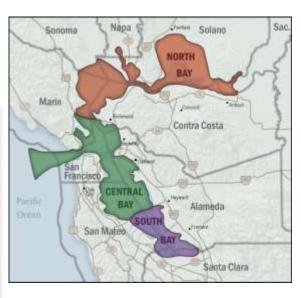


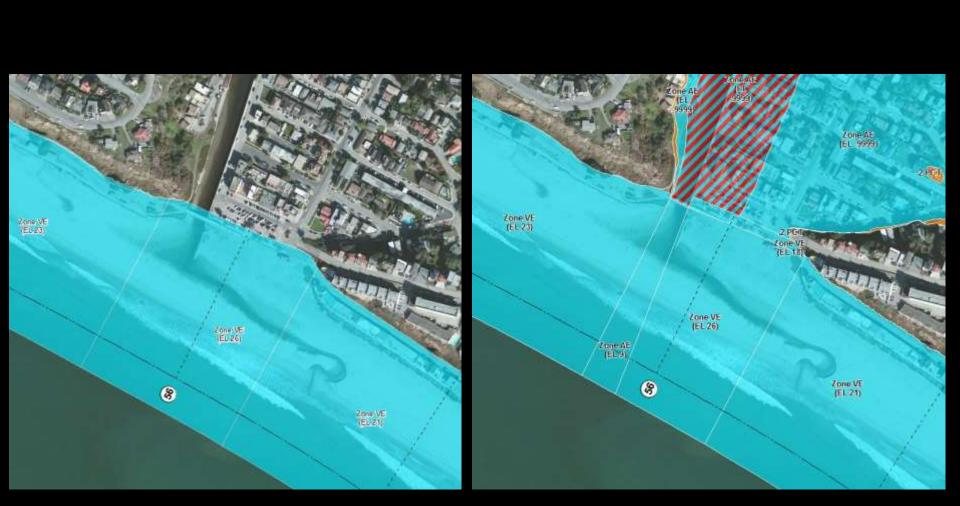
Santa Barbara

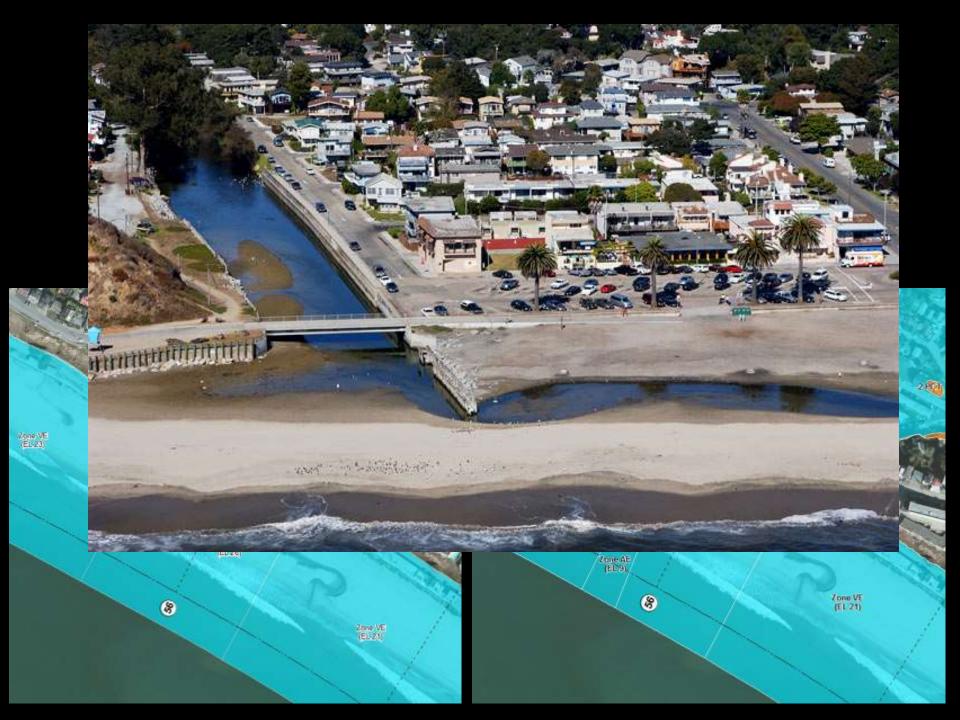
Ventura

San Diego

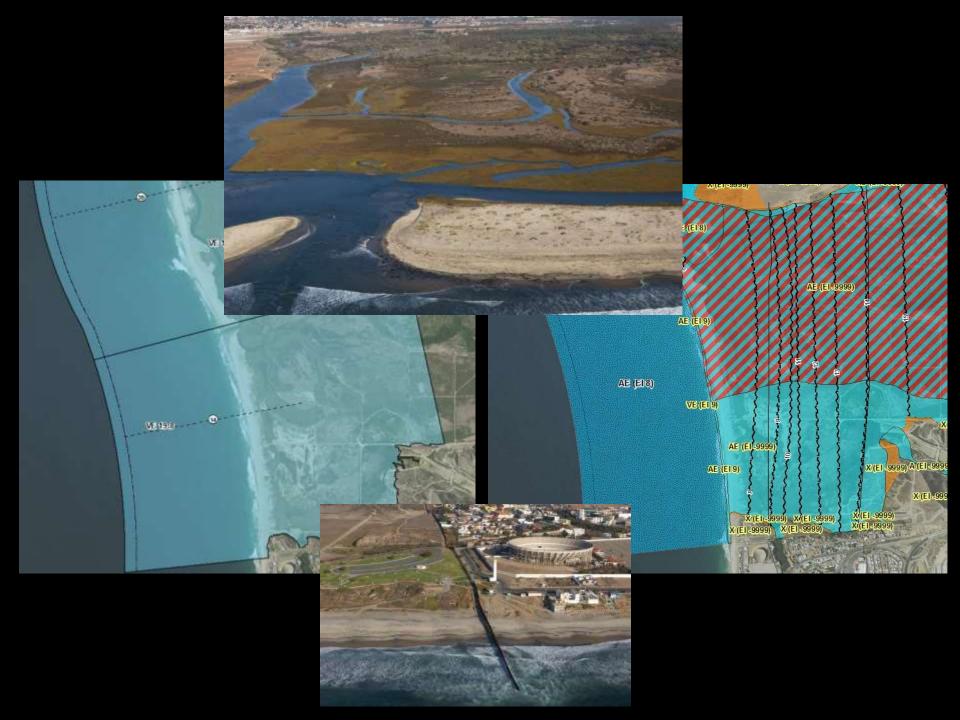
Los Angeles Orange

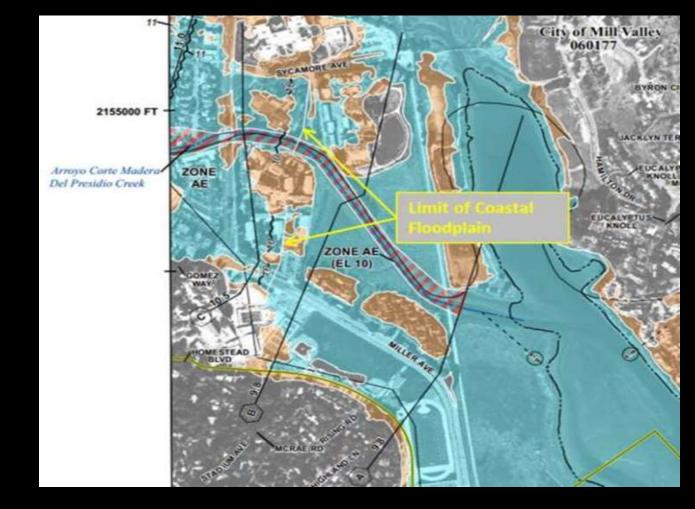








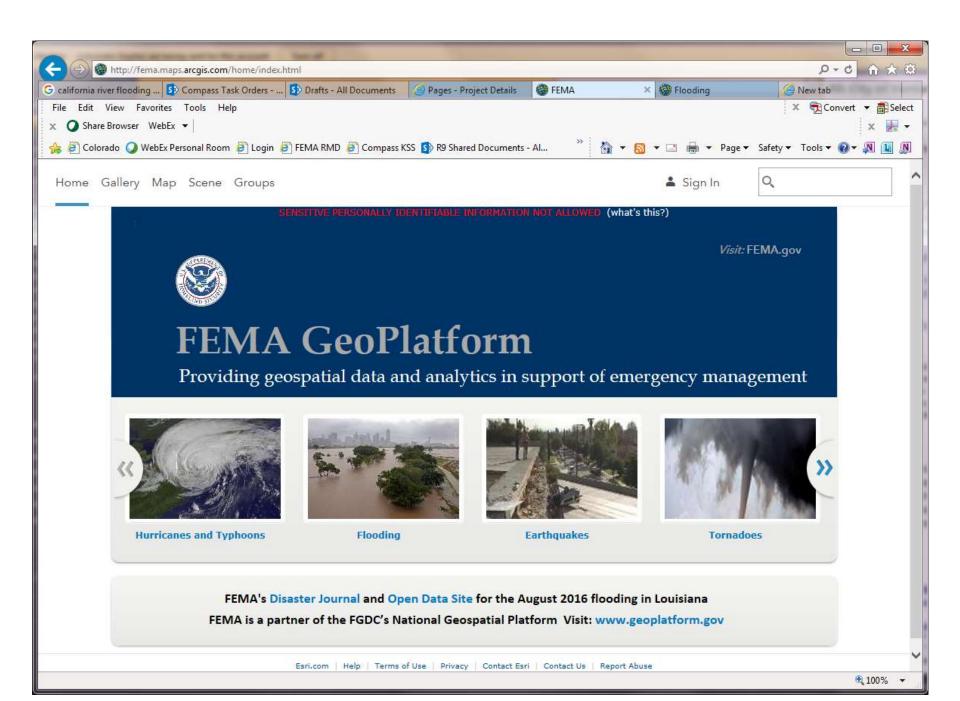


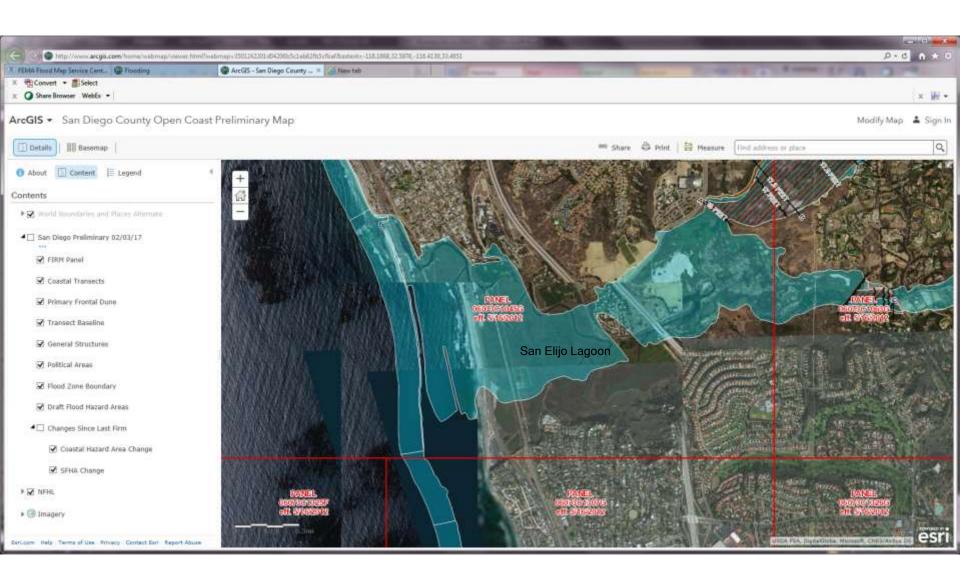


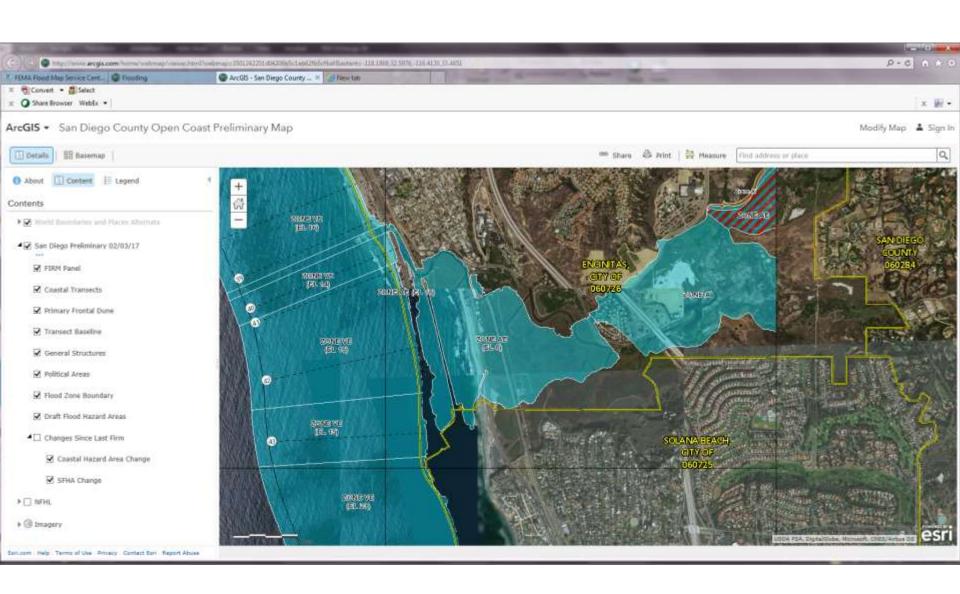


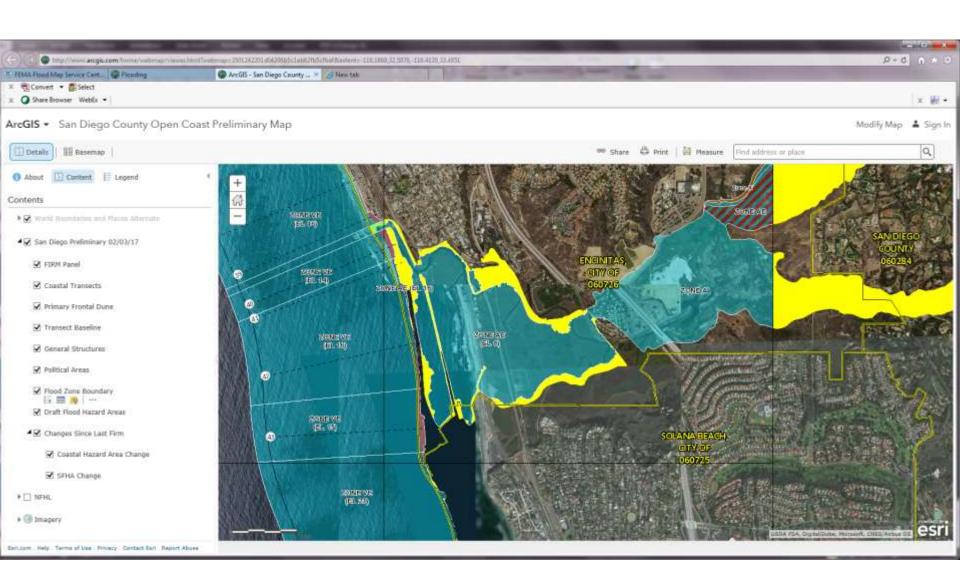
















Working Standards

Guidance

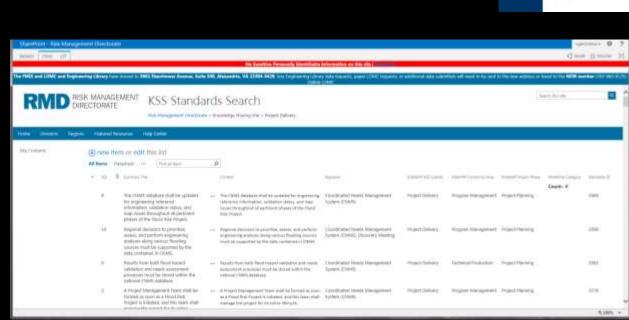
Best Practices/Lessons Learned

Guidance for Flood Risk Analysis and Mapping

Combined Coastal and Riverine Floodplain

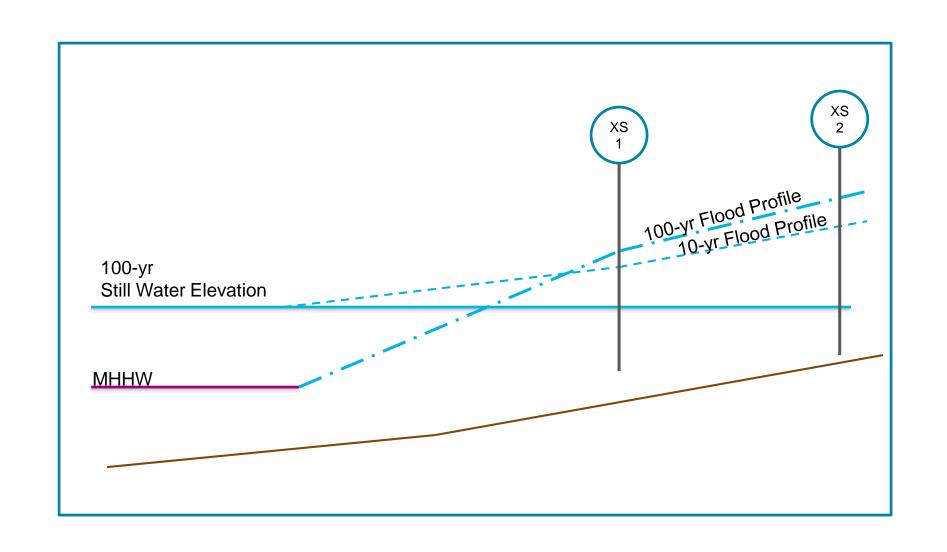
May 2015













Station Info - Tides/Water Levels -

Meteorological Obs.

Phys. Oceanography

PORTS®

Datums for 9410660, Los Angeles CA

Elevations on Station Datum

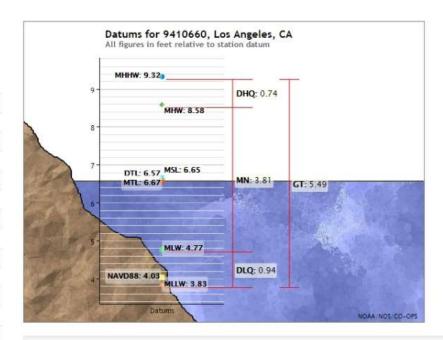
 Station: 9410660, Los Angeles, CA
 T.M

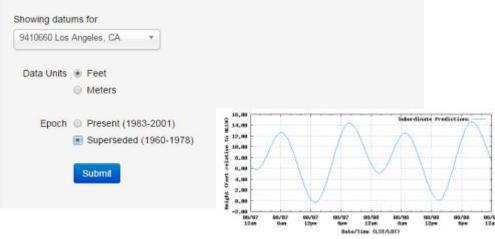
 Status: Accepted (Oct 7 2011)
 Epc

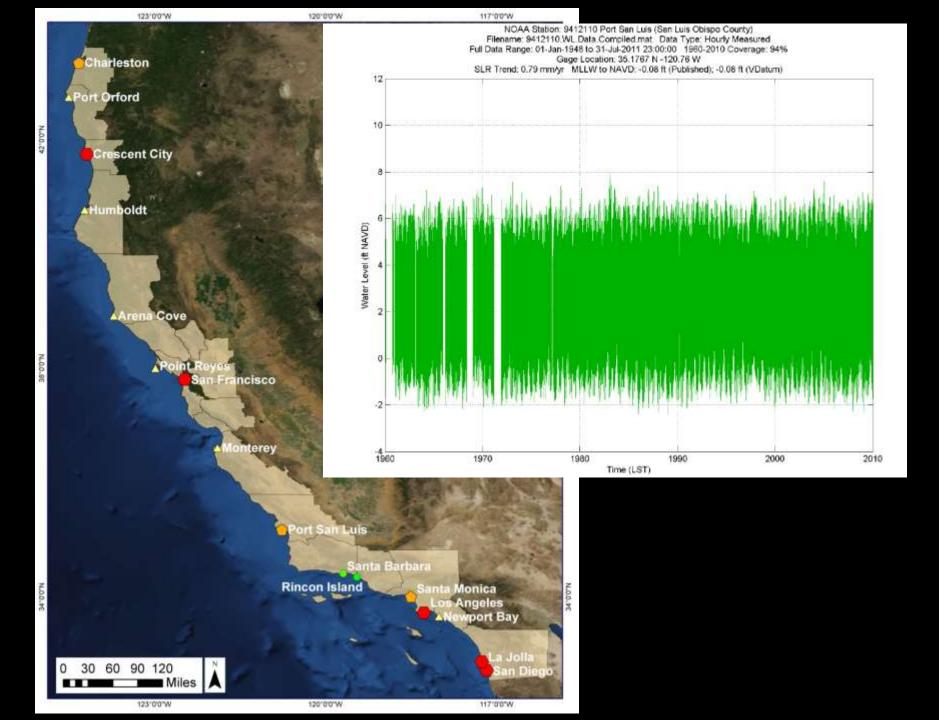
 Units: Feet
 Dat

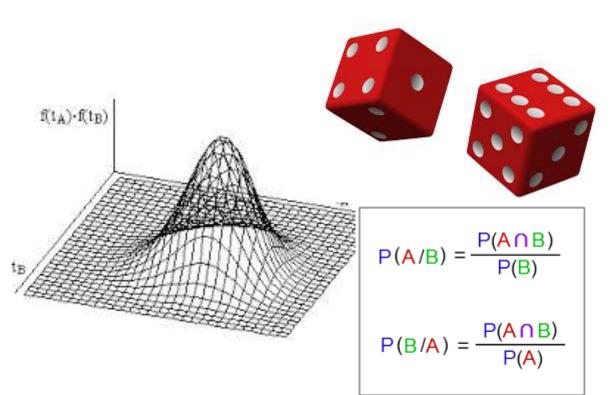
T.M.: 120 Epoch: 1983-2001 Datum: STND

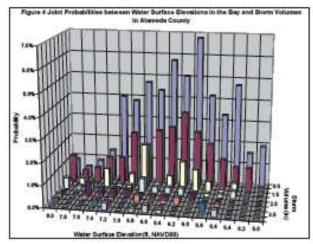
units: reet		Datum: STND
Datum	Value	Description
MHHW	9.32	Mean Higher-High Water
MHW	8.58	Mean High Water
MTL	6.67	Mean Tide Level
MSL	6.65	Mean Sea Level
DTL	6.57	Mean Diumal Tide Level
MLW	4.77	Mean Low Water
MLLW	3.83	Mean Lower-Low Water
NAVD88	4.03	North American Vertical Datum of 1988
STND	0.00	Station Datum
GT	5.49	Great Diurnal Range
MN	3.81	Mean Range of Tide
DHQ	0.74	Mean Diurnal High Water Inequality
DLQ	0.94	Mean Diurnal Low Water Inequality
HWI	5.14	Greenwich High Water Interval (in hours)
LWI	11.21	Greenwich Low Water Interval (in hours)
Maximum	11.75	Highest Observed Water Level
Max Date & Time	01/10/2005 16:12	Highest Observed Water Level Date and Time
Minimum	1.10	Lowest Observed Water Level
Min Date & Time	12/17/1933 08:00	Lowest Observed Water Level Date and Time
HAT	11.17	Highest Astronomical Tide
HAT Date & Time	12/02/1990 16:06	HAT Date and Time
LAT	1.85	Lowest Astronomical Tide
LAT Date & Time	01/01/1987 00:00	LAT Date and Time

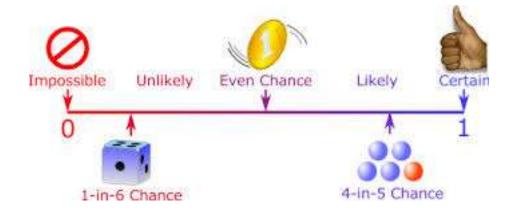






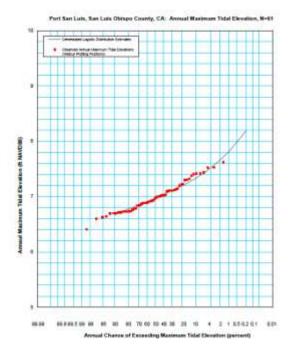




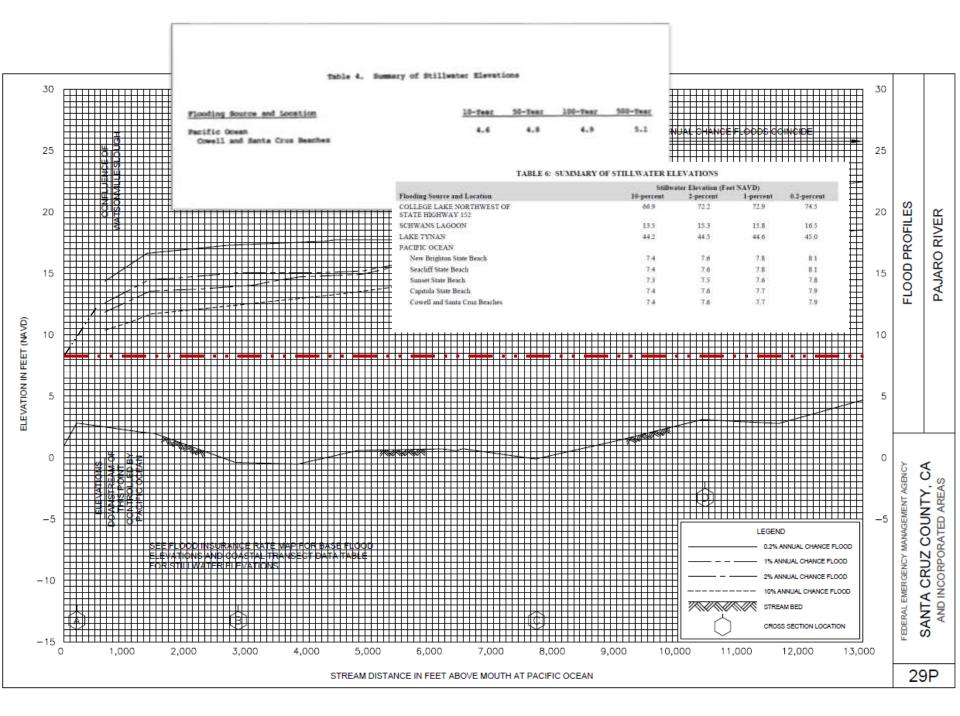


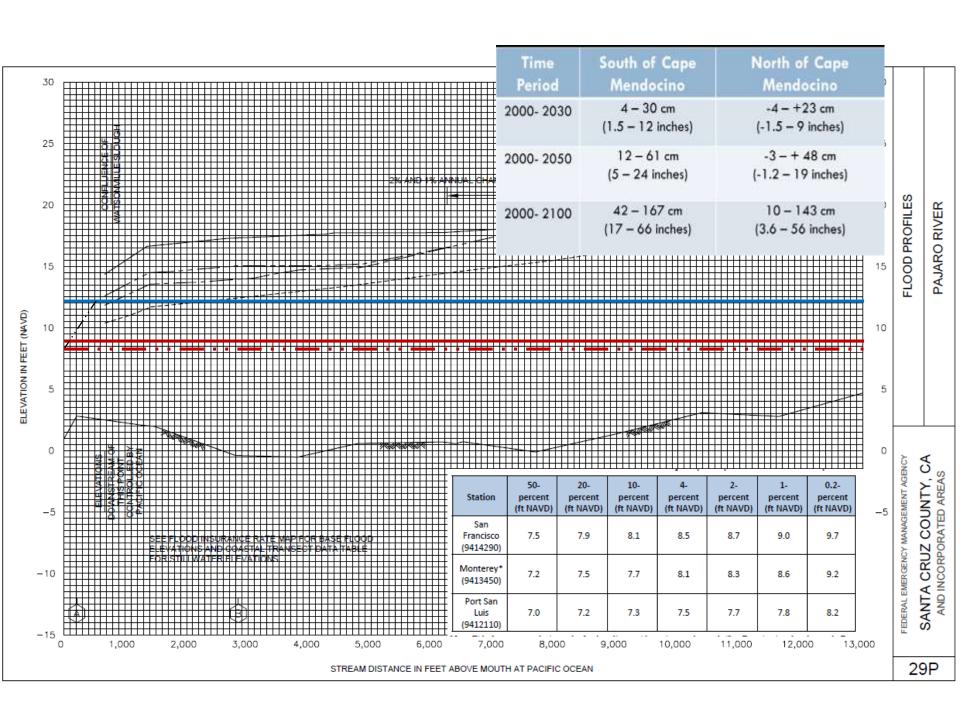
Station Regiona 20- percent (feet, NAVD) 10- percent (feet, NAVD)			Regional	Regional	Regional	Regional	Regional	Regional	Regional	At-site
La Jolla Southern 6.19 7.13 7.27 7.44 7.59 7.74 8.12 7.69 Newport Bay Southern 7.03 7.25 7.40 7.57 7.73 7.88 8.26 7.85 Los Angeles Southern 7.09 7.31 7.45 7.63 7.79 7.94 8.33 7.82 Santa Monica Southern 7.11 7.33 7.47 7.65 7.81 7.96 8.35 8.09 Santa Barbara Southern 6.99 7.21 7.35 7.53 7.68 7.83 8.21 7.89 Port San Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San rancisco Central 7.57 7.94 8.19 8.52 8.77 9.05 9.68 8.88 Point Reyes	Station	Region	50- percent (feet,	20- percent (feet,	10- percent (feet,	4- percent (feet,	2- percent (feet,	1- percent (feet,	0.2- percent (feet,	1- percent (feet,
Newport Bay Southern 7.03 7.25 7.40 7.57 7.73 7.88 8.26 7.85 Los Angeles Southern 7.09 7.31 7.45 7.63 7.79 7.94 8.33 7.82 Santa Monica Southern 7.11 7.33 7.47 7.65 7.81 7.96 8.35 8.09 Santa Barbara Southern 6.99 7.21 7.35 7.53 7.68 7.83 8.21 7.89 Port San Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San Francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove	an Diego	Southern	7.17	7.39	7.54	7.72	7.88	8.03	8.42	7.95
Bay Southern 7.03 7.25 7.40 7.57 7.73 7.88 8.26 7.85 Los Angeles Southern 7.09 7.31 7.45 7.63 7.79 7.94 8.33 7.82 Santa Monica Southern 7.11 7.33 7.47 7.65 7.81 7.96 8.35 8.09 Santa Barbara Southern 6.99 7.21 7.35 7.53 7.68 7.83 8.21 7.89 Port San Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San Francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Ce	La Jolla	Southern	6.19	7.13	7.27	7.44	7.59	7.74	8.12	7.69
Angeles Southern 7.09 7.31 7.45 7.63 7.79 7.94 8.33 7.82 Santa Monica Southern 7.11 7.33 7.47 7.65 7.81 7.96 8.35 8.09 Santa Barbara Southern 6.99 7.21 7.35 7.53 7.68 7.83 8.21 7.89 Port San Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San Francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 Jumboldt Bay <		Southern	7.03	7.25	7.40	7.57	7.73	7.88	8.26	7.85
Monica Southern 7.11 7.33 7.47 7.65 7.81 7.96 8.35 8.09 Santa Barbara Southern 6.99 7.21 7.35 7.53 7.68 7.83 8.21 7.89 Port San Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San Francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 tumboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.48 11.30 10.28 Por		Southern	7.09	7.31	7.45	7.63	7.79	7.94	8.33	7.82
Barbara Southern 6.99 7.21 7.35 7.53 7.68 7.83 8.21 7.89 Port San Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San Francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 Humboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 Drescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford		Southern	7.11	7.33	7.47	7.65	7.81	7.96	8.35	8.09
Luis Southern 6.97 7.19 7.33 7.51 7.66 7.81 8.19 7.99 Monterey Central 7.16 7.51 7.74 8.05 8.30 8.55 9.23 8.50 San rancisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 Iumboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 Drescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Southern	6.99	7.21	7.35	7.53	7.68	7.83	8.21	7.89
San francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 tumboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 Drescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Southern	6.97	7.19	7.33	7.51	7.66	7.81	8.19	7.99
Francisco Central 7.51 7.88 8.12 8.45 8.70 8.97 9.68 8.88 Point Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 lumboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 Drescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02	Nonterey	Central	7.16	7.51	7.74	8.05	8.30	8.55	9.23	8.50
Reyes Central 7.57 7.94 8.19 8.52 8.77 9.05 9.76 9.62 Arena Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 tumboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 2rescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Central	7.51	7.88	8.12	8.45	8.70	8.97	9.68	8.88
Cove Central 7.79 8.18 8.43 8.77 9.03 9.31 10.05 9.39 tumboldt Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 Crescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Central	7.57	7.94	8.19	8.52	8.77	9.05	9.76	9.62
Bay Central 8.50 8.92 9.20 9.56 9.85 10.16 10.96 10.32 Crescent City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Central	7.79	8.18	8.43	8.77	9.03	9.31	10.05	9.39
City Central 8.79 9.20 9.48 9.86 10.16 10.48 11.30 10.28 Port Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Central	8.50	8.92	9.20	9.56	9.85	10.16	10.96	10.32
Orford Northern 9.24 9.79 10.15 10.63 11.01 11.41 12.45 12.02		Central	8.79	9.20	9.48	9.86	10.16	10.48	11.30	10.28
harleston Northern 9.51 10.08 10.45 10.94 11.33 11.75 12.82 11.38		Northern	9.24	9.79	10.15	10.63	11.01	11.41	12.45	12.02
	harleston	Northern	9.51	10.08	10.45	10.94	11.33	11.75	12.82	11.38

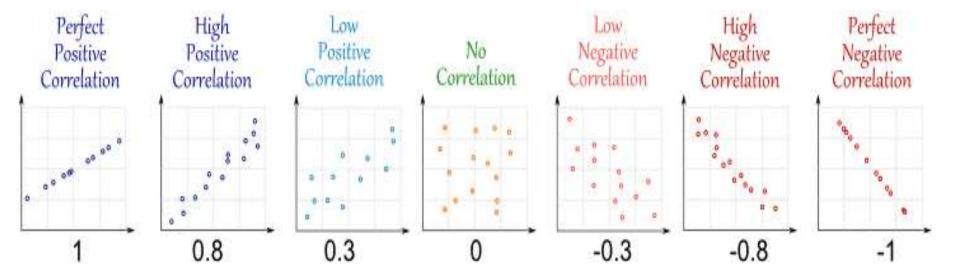
		Predictor Station															
		СН	PO	СС	HU	AC	PR	SF	MO	SL	SB	RI	SM	LA	NB	Ш	SD
	СН	-	0.93	0.95	1.04	AC	T IX	31	IVIO	JL	30	IXI	JIVI	LA	IND	L)	30
			0.00														
	P0	0.96	-	1.01	1.09												
	CC	0.81	0.83	-	1.07	0.92	0.97	0.94									
	HU	0.70	0.70	0.86	-	0.85	0.92	0.90	1.04								
	AC			0.76	0.91	-	1.00	1.03	1.19	1.10							
	PR			0.63	0.76	0.80	-	0.94	1.14	1.06							
tion	SF			0.56	0.73	0.77	0.92	-	1.11	0.89							
Sta	мо				0.54	0.61	0.73	0.73	-	0.96	0.72	0.75		0.84	0.87	0.81	0.83
rred	SL					0.49	0.60	0.60	0.85	-	0.76	0.77	0.67	0.86	0.91	0.81	0.84
Inferred Station	SB								0.74	0.86	-	0.93	0.78	0.99	1.12	0.85	0.99
_	RI								0.72	0.85	0.86	-		0.95	0.98	0.96	0.82
	SM									0.73	0.83		-	0.93	0.95	0.80	0.90
	LA								0.63	0.64	0.72	0.77	0.72	-	0.96	0.82	0.91
	NB								0.68	0.80	0.69	0.81	0.54	0.94	-	0.97	0.93
	IJ								0.63	0.63	0.70	0.68	0.65	0.87	0.88	-	0.90
	SD								0.66	0.67	0.76	0.78	0.79	0.93	0.97	0.87	-



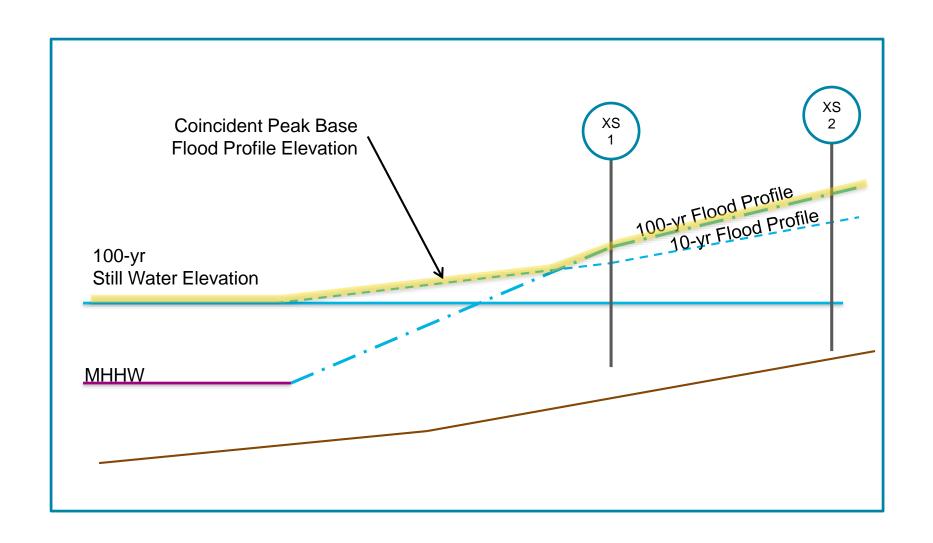
Annual Mean Sea 1960-2009 MLLW to Station Station County **Level Trend** Maxima NAVD88 (ft) ID Coverage (yrs)* (mm/yr) 9432780 Charleston Coos, OR 72% 40 (42) -0.50 1.29 9431647 52% Port Orford Curry, OR 26 (31) -0.49 0.18 9419750 Crescent 96% 70 (77) -0.38 -0.65 Del Norte City 33 (34) 4.73 9418767 Humboldt 64% -0.33 Humboldt North Spit 45% 24 (27) -0.13 2.10** 9416841 Arena Cove Mendocino 9415020 Point Reyes Marin 69% 36 (37) -0.02 2.10 9414290 99% 114 (114) 0.06 2.01 San San Francisco Francisco 9413450 72% 37 (38) 0.14 1.34 Monterey Monterey 9412110 San Luis 94% 61 (66) -0.08 0.79 Port San Luis Obispo 9411340 Santa Santa 26% 18 (23) -0.13 1.25 Barbara Barbara 15 (24) 3.22 9411270 Rincon 22% -0.10 Ventura Island 9410840 Santa 68% 64 (71) -0.19 1.46 Los Angeles Monica 9410660 98% 84 (88) -0.20 0.83 Los Angeles Los Angeles 9410580 Newport 37 (39) 29% -0.18 2.22 Orange Bay 9410230 La Jolla San Diego 94% 75 (86) -0.19 2.07 9410170 66% 83 (85) -0.43 2.06 San Diego San Diego













Location

Extent (Magnitude/Strength)

Previous Occurrences

Future Probability

COMMUNITY ASSETS

Population

Built Environment

Natural Environment

Economy

RISK





NATURAL HAZARDS



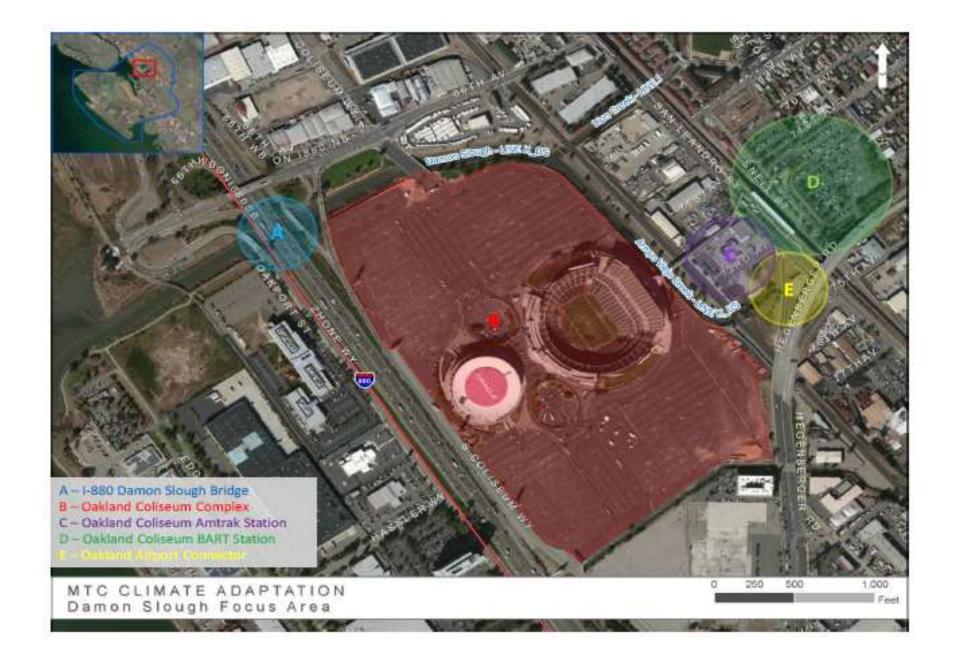


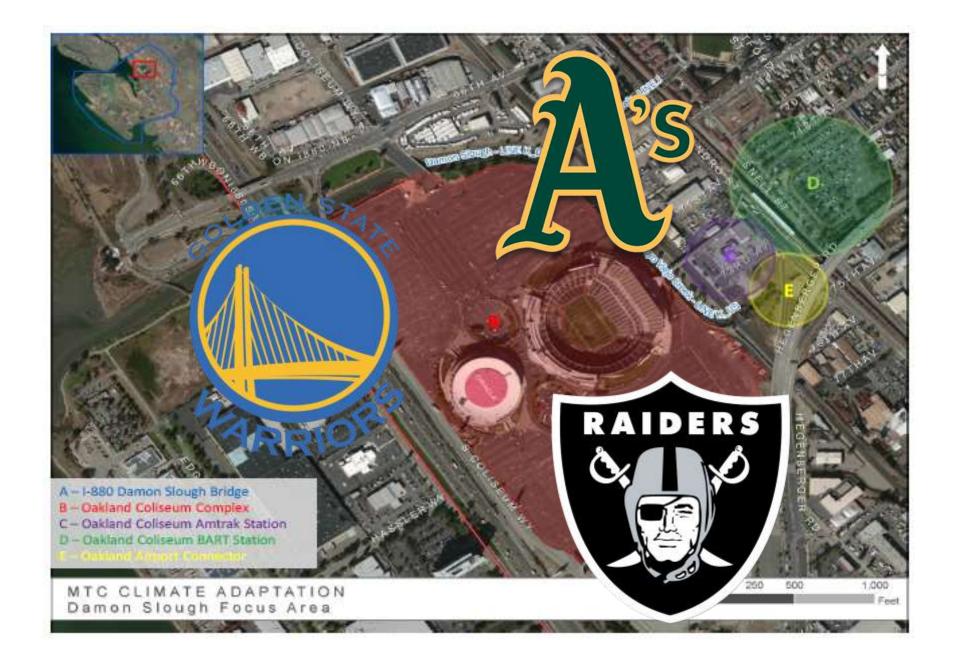






	Daily Tide		Extreme Tide (Storm Surge)													
Sea Level Rise Scenario	Water Level above MHHW	1-yr	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr								
Existing Conditions	0	15	20	24	27	32	36	41								
MHHW + 6-inch	6	21	26	30	33	38	42	47								
MHHW + 12-inch	12	27	32	36	39	44	48	53								
MHHW + 18-inch	18	33	38	42	45	50	54	59								
MHHW + 24-inch	24	39	44	48	51	56	60	65								
MHHW + 30-inch	30	45	50	54	57	62	66	71								
MHHW + 36-inch	36	51	56	60	63	68	72	77								
MHHW + 42-inch	42	57	62	66	69	74	78	83								
MHHW + 48-inch	48	63	68	72	75	80	84	89								
MHHW + 54-inch	54	69	74	78	81	86	90	95								
MHHW + 60-inch	60	75	80	84	87	92	96	101								





	RAS X	a straight	340 DS-2	432.89 D9-3	697.66 DS-4	961.66 DS-5	1-880 Crossin	1365.12 D9-6	1456.96 DS-7	1765.86 DS-8	2020 DS-9	2043.86 DS-10	Colineum Way	2180.26 DS-11	2200 DS-12	2590,03 DS-13	2981.22 DS-14				
	LB RB Elev	44.43	12.141	12.231		11.06 10.54	g	11.14	11.15 [16.57	9.96 10.3	12.21	12.06	Crossing	10.95 13.07	10.95 13.07	12.01 12.01	52.00 j 12.00				
	Boesario	8.01	8.94	8.99	7.14	7.31		7.55	Water Surface	7.8E	(FT-NAV8	9.13	+	9.27	8.28	0.40	8.67				
	MHHW + 10-year	7.81	7.79	7.82	7.01	8.00	-	8,18	8.29	8.4	8.57	6.59	#1	8.89	8.7	1.84	9.18				
	+ 12° SU + 24° SU	2.81	8.00	8.73	6.79	8.80	-	8.95	901	9.1	9.22	9.23	1	9.44	0.44	0.52	9.74				
	Township of the second	8.61	7,18	7.48	7.73	6.00	-	04	3.59	0.05	9.2	9.21	+	9,74	9.76	9.00	10.32				
	МНИМ + 100-уезг	7.61	7.89	6.1	8,29	8.5		8.78	8.93	9,15	0.45	0.48	49	10	10.02	10.12	10.6				
	+ 12" SU + 24" SU	2.81	8.77	8.91	0.02	R.17	+	9.37	9.47	9.54	0.80	0.00	12.	10.45	10.48	10.53	10.84				
		8.84	RO	9.05	0	9.08	F		RAS	xs xs	65	47	90		96	146	160	179	299	453	667
	10-year Extreme Tide + 10-year	2.54 FB	9.87	8.01	9.94	93.0			RAS	200	LC-1	163	Bridg	16	LC-9	1,04	Bridge	LC-6	104	107	104
	+12" SU	R FB		10.00	10.91	10.03	-	Soc	LB RB El Hario	ev. 13.1	2 13.24	13.12 19.2	4	13.1	16] 13.21	10.24 (10 W	97 SEL IFT-MAVEL	18.16 10.23	12.00 12.00	12.78 12.49	13.00] 13.00
	+ 34° SLI		-	-		20		10 W + 10-y	ear .	1 3	9.76	9.17			0.76	9.19		9.9	6.91	9.39	9.48
	10-year Extreme Tide + 100-year	8.84	8.98	9.11	8.21	9.36	LΓ		+12° 5		9,42	0.42			0.40	9.40		9.01	9.63	9.00	9.76
	+ 12" SU	8.84 RB	#92	10.01	10.08	10.17			+ 24° S		0.03	9.94		1/4	10.03	10.00	53	10.16	10,17	10,23	10.26
	+34" SL		10.89	10.90	#	AB	L F		0.000	1	0.72	10.73		1 0	10.00	10.98	<u> </u>	11.37	11.4	31,47	11.54
	100-year Estreme Tide + 10-year	10.01	10.04	10.08	10.11	10.14	W	HHW + 160 y	year		0.80	10.50	-		11.12	FIE 11.54	_	11.05	71.5E	11.54	11,71
	+ 12" 51.		11.09	11,06	11.57 MB	11.1 LB, RB			+12"8	18	11.17	11.18			11.40	LR RR		11.6	11.83	11.00	11,94
RA	S XS 3416.43 3744	1.86	4473.1	2	4547.99		4607.95		4639.46			4790		1921.3	4951	.28		LBH RB1	-	-	+
RA	S XS AV-1 AV	-2	AV-3		AV-4		AV-5		AV-6	Amtr		AV-7		AV-8	AV	-9	200	10.30 RB	10.01	10.38	10.41
LB RB	Elev. 10.4 10.65 11.02	10.83	11.86 10	0.73	12.09 10.6		.74 10.2		11 10.86 n (FT-NAV88			12.53 11.2	7 12.9	7 12.97	17.02	12.51	5	11.01 LB. RB	11.02	11.06	11.10
Scenario	9.38 9.5		9.92		10.01	wa	10.01	ce Elevatio	9.99	-		10.26		10.36	10.3			LEUTE.	31.81	11.83	11.56
MHHW + 10year	9.6 9.7	'5	10.08	_	10.16	+	10.16	+	10.15	<u> </u>	_	10.39	+	10.48	10.4	42		TO ARE	11.01	11.00	12.02
+ 12"	10.07 10.1	19	10.44		10.51		10.5 RB		10.49	-		10.69		10.76	10.	.7		(2.1) 1.81 WAL	13.35 LB, RS	13.36	12.44
+ 24"	10.89 11.º		11.59		11.69		11.87		11.63	<u> </u>		12.03		12.02	11.3			(40 882	12.82 LB, RB	12.98 RB	12.06
MHHW + 100-year	LB; RB LB; 11.02 11.3	\rightarrow	RB		RB1	-	LB1; RB 11.76	_	LB; RB	-		RB		12.07	11.0	24	<u> </u>	18.1F	11.18	11.22	11.28
+ 12"		RB	11.67 RB 11.86		RB1	+	LB1; RB		LB; RB	-		12.09 RB 12.22		12.19	11.0			1181,788 1180 181 981	11.05	11.07	11.90
+ 24"	SLR LB; RB LB;	RB	RB1		RB1		LB1; RB	L	LB1; RB			RB		-	-			181 AR-	12.79 LD: PER	12.81 LB: HB	12.82
10-year Extreme Tide + 10-			10.55 -		10.61		10.6 RB		10.59	-		10.78		10.84	10.7			distant.	ER, MR	Ca. He	*
+ 12"		3	11.08 RB		11.12 RB		11.12 LB; RB		11.1 RB	-		11.26		11.29	11.3						
+ 24"	11.59 11.6 SLR LB1; RB LB;		11.75 RB1		11.78 RB1		11.78 RB1		11.77 LB; RB	-		11.87 RB		11.87	11.	8					

12.26 RB

12.53 RB1 12.94 LB; RB1

11.35

RB

11.99 RB

12.74

LB; RB1

12.23

12.47

12.86

11.38

11.98

12.73

11.97

12.22

12.62 RB

11.31

11.92

12.66 RB

11.37 LB; RB

11.82 LB1; RB

12.42 LB2; RB1

10.95

LB; RB

11.73 LB1; RB

LB2; RB1

11.56

LB; RB

11.98 LB; RB1

12.54 LB1; RB

11.03

LB; RB

11.78 LB; RB

12.62 LB1; RB

+ 12" SLR

+ 24" SLR

+ 12" SLR

+ 24" SLR

LB; RB1

12.26 LB; RB1

12.74 LB; RB2

11.19 RB

11.88 LB; RB1 12.68 LB; RB1

12 RB1

12.32 LB; RB1

12.79 LB; RB2

11.23

RB

LB; RB2

11.99

LB1; RB1

12.31 LB1; RB2

12.78 LB2; RB2

11.22

LB; RB

11.9 LB1; RB1

LB1; RB2

LB; RB1

12.28 LB1; RB1

12.75 LB1; RB1

11.21 LB; RB

11.89 LB; RB1

12.69 LB1; RB

-

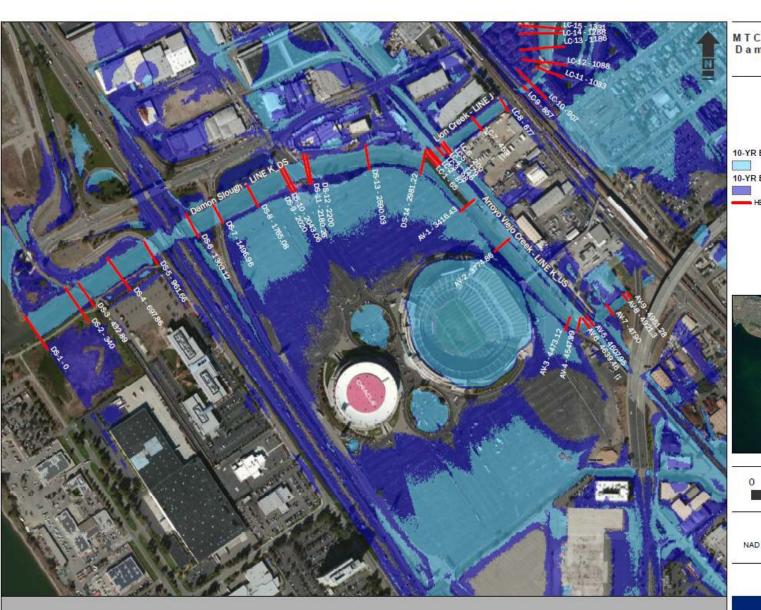
10-year Extreme Tide + 100-year

100-year Extreme Tide + 10-

year







MTC CLIMATE ADAPTATION Damon Slough Focus Area Alameda County

FLOODING EXTENTS

10-YR Extreme Tide + 10-YR Peak Flow

10-YR Extreme Tide (24" SLR) + 10-YR Peak Flow

HEC-RAS XS



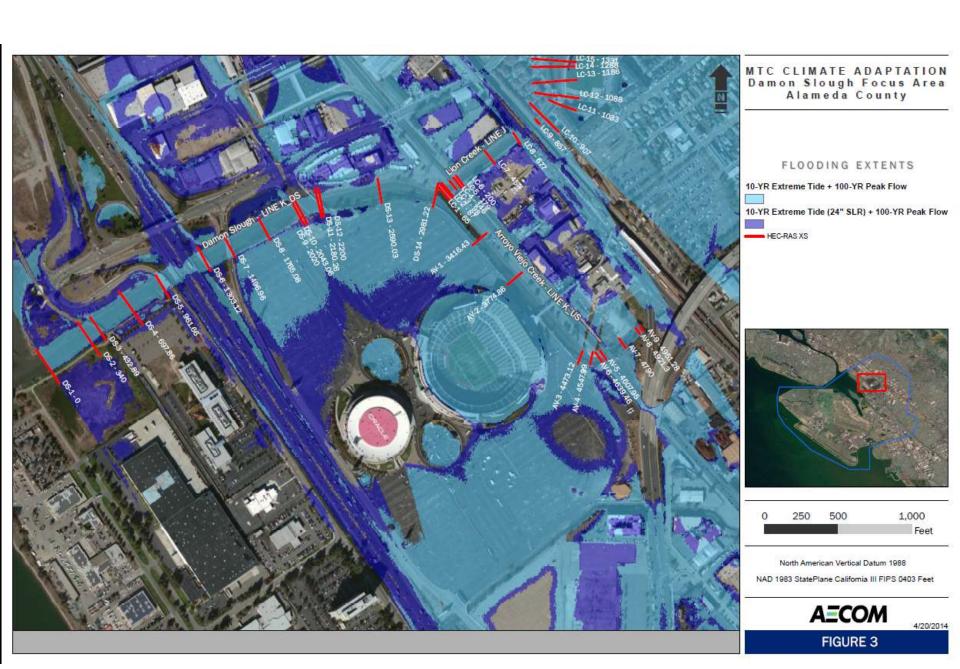
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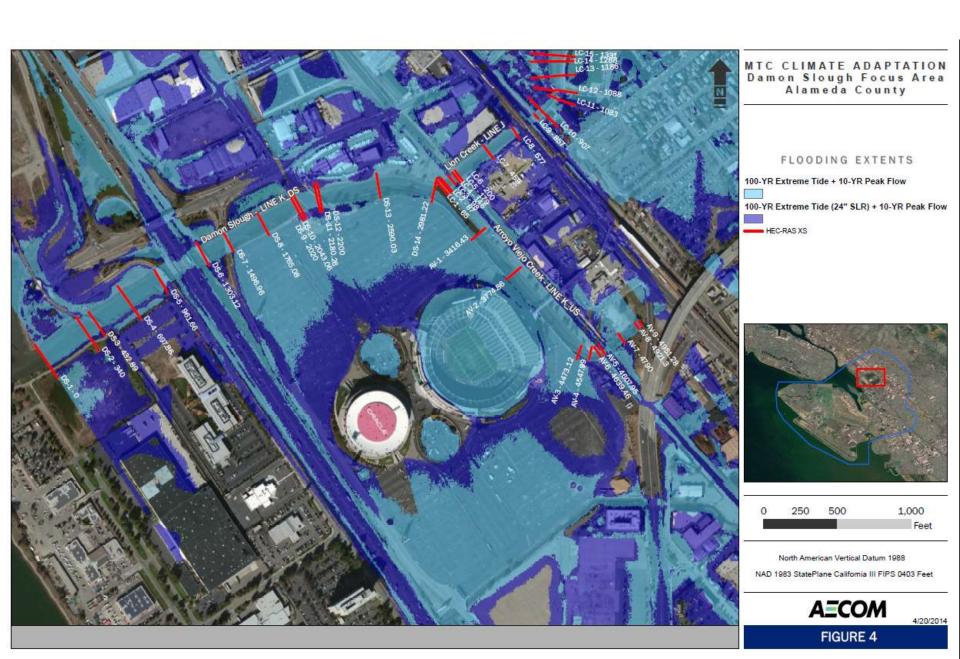
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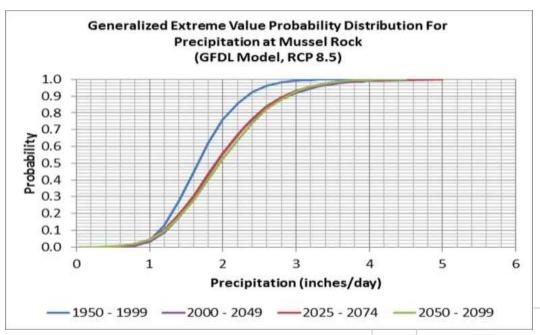
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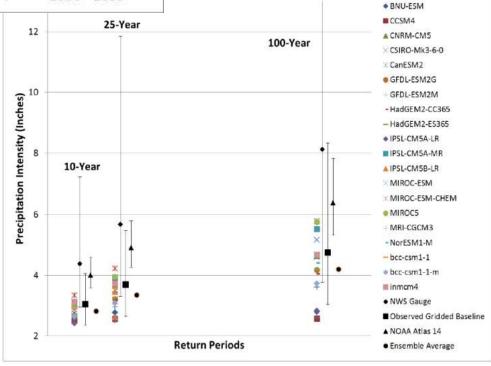
4/20/2014

FIGURE 2











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Stream	County	City	SFHA Designation	Floodway Score	Community Rating (1-5) Map errors, New Terrain, etc	Change in 1% Boundary Elevation	Distance Upstream	Study age	Levee Scale (1 - 5)	Scale (1-5) 1 = many homes in SFHA	FINAL Rank Score
Pajaro River	Santa Cruz	Pajaro Dunes	5	5	1	3.0	3	3	5	5	16875
Aptos Creek	Santa Cruz	Santa Cruz	5	5	1	4.0	2	3	1	5	3000
Willow Creek	San Luis Obispo	Cayucos	5	5	1	3	2	4	1	5	3000
Elkhorn Slough	Monterey	Moss Landing	5	5	1	2	3	3	3	2	2700
San Lorenzo River	Santa Cruz	Santa Cruz	5	5	1	1	2	2	5	5	2500
Parajo River	Monterey	Moss Landing	5	5	1	3	3	3	3	1	2025
San Luis Obispo Creek	San Luis Obispo	Pismo Beach	5	5	1	3	1	4	1	5	1500
Cayucos Creek	San Luis Obispo	Cayucos	5	5	1	3	1	3	1	5	1125
Little Cayucos Creek	San Luis Obispo	Cayucos	5	5	1	3	1	3	1	5	1125
Watsonville Slough	Santa Cruz	Pajaro Dunes	5	5	1	1	3	3	1	5	1125
Pismo Creek	San Luis Obispo	Avila Beach	5	5	1	3	1	4	1	3	900
Carmel River	Monterey	Carmel	5	1	1	1	2	3	5	5	750
Soquel Creek	Santa Cruz	Santa Cruz	5	5	1	1.0	2	2	1	5	500
Pescadero Creek	San Mateo	Pescadero	5	5	1	1	3	5	1	1	375
Unnamed Creek	San Luis Obispo	Morro Bay	5	1	1	3	1	4	1	5	300
Salinas River	Monterey	Salinas	5	1	1	3	1	3	3	2	270
Arroyo Grande Creek	San Luis Obispo	Oceano	5	1	1	3	1	3	1	5	225
Morro Creek	San Luis Obispo	Morro Bay Santa Cruz	5	1 5	1	3	1	3	1	5 2	225
Moore Creek			5	5	1	1	1	2	_	4	
Santa Rosa Creek	San Luis Obispo	Cambria Sand City	5	1	1	3	1	3	1	4	200 180
Canyon Del Ray Rodeo Creek Gulch	Monterey Santa Cruz	Sand City Santa Cruz	5	5	1	1	1	2	1	3	180
	Santa Cruz San Mateo	Montara Cruz	5	1	1	1	1	4	1	3 5	100
Montara Creek Alva Paul Creek	San Luis Obispo	Morro Bay	5	1	1	1	1	3	1	5	75
San Pedro Creek	San Mateo	Pacifica	3	1	1	1	1	4	1	5	60
San Vincente Creek	Santa Cruz	Davenport	5	1	1	1	1	3	1	4	60
Toro Creek	San Luis Obispo	Morro Bay	5	1	1	3	1	4	1	1	60
San Vincente Creek	San Mateo	Montara	5.00	1	1	1	1	3	1	3	45
Denniston Creek	San Mateo	Princeton	5.00	1	1	1	1	3	1	3	45
San Bernado Creek	San Luis Obispo	Morro Bay	5	1	1	1	1	3	1	3	45
Schwan Lagoon	Santa Cruz	Santa Cruz	5	1	1	1	1	2	1	4	40
Old Creek	San Luis Obispo	Cayucos	5	1	1	1	1	2	1	4	40
Osos Creek	San Luis Obispo	Morro Bay	5	1	1	1	1	2	1	3	30
Castroville Boulevard	Monterey	Moss Landing	1	1	1	1	1	3	4	2	24
Unnamed Creek	San Mateo	Montara	1	1	1	1	1	4	1	5	20
Van Gordon Creek	San Luis Obispo	San Simeon	1	1	1	1	1	4	1	4	16
Younger Lagoon	Santa Cruz	Santa Cruz	5	1	1	1	1	3	1	1	15
Coon Creek	San Luis Obispo	Los Osos	5	1	1	1	1	3	1	1	15
Islay Creek	San Luis Obispo	Los Osos	5	1	1	1	1	3	1	1	15
Calera Creek	San Mateo	Pacifica	1	1	1	1	1	4	1	3	12
Unnamed Creek	San Mateo	Pacifica	1	1	1	1	1	4	1	3	12
Leffingwell Creek	San Luis Obispo	San Simeon	1	1	1	1	1	3	1	4	12
Oso Flaco Creek	San Luis Obispo	-	5	1	1	1	1	2	1	1	10
Moran Lake	Santa Cruz	Santa Cruz	1	1		_			1	4	8
Laguna Salada	San Mateo Monterey	Fairway Park Moss Landing	1	1	1	1	1	2	1	3 2	6
Tembladero Slough Broken Bridge Creek	San Luis Obispo	San Simeon	1	1	1	1	1	3	1	2	6
Frenchmans Creek	San Luis Obispo	Halfmoon Bay	1	1	1	1	1	2	1	2	4
Pico Creek	San Luis Obispo	San Simeon	1	1	1	1	1	2	1	2	4
Gazos Creek	San Mateo	Pescadero	1	1	1	1	1	3	1	1	3
Cascade Creek	San Mateo	-	1	1	1	1	1	3	1	1	3
Green Oaks Creek	San Mateo	-	1	1	1	1	1	3	1	1	3
Finney Creek	San Mateo	Davenport	1	1	1	1	1	3	1	1	3
Elliot Creek	San Mateo	Davenport	1	1	1	1	1	3	1	1	3
Waddell Creek	Santa Cruz	Swanton	1	1	1	1	1	3	1	1	3
Scott Creek	Santa Cruz	Swanton	1	1	1	1	1	3	1	1	3
Molino Creek	Santa Cruz	Swanton	1	1	1	1	1	3	1	1	3
Laguna Creek	Santa Cruz	Davenport	1	1	1	1	1	3	1	1	3
Majors Creek	Santa Cruz	Davenport	1	1	1	1	1	3	1	1	3
Baldwin Creek	Santa Cruz	Santa Cruz	1	1	1	1	1	3	1	1	3
Lombardi Gulch	Santa Cruz	Santa Cruz	1	1	1	1	1	3	1	1	3
Old Dairy Gulch	Santa Cruz	Santa Cruz	1	1	1	1	1	3	1	1	3
Wilder Creek	Santa Cruz	Santa Cruz	1	1	1	1	1	3	1	1	3
Big Sur River	Monterey	Big Sur Carmel	1	1	1	1	1	3	1	1	3
Bixby Creek Little Sur River	Monterey Monterey	Carmel	1	1	1	1	1	3	1	1	3
			1	1	1	1	1	3	1	1	3
San Jose Creek	Monterey San Luis Obisno	Carmel	1	1	1	1	1	3	1	1	3
Arroyo de la Laguna Little Pico Creek	San Luis Obispo San Luis Obispo	San Simeon	1	1	1	1	1	3	1	1	3
	San Luis Obispo		1	1	1	1	1	2	1	1	2
Pomponio Creek Purisima Creek	San Mateo	San Gregorio Halfmoon Bay	1	1	1	1	1	2	1	1	2
Tunitas Creek	San Mateo	Halfmoon Bay	1	1	1	1	1	2	1	1	2
San Gregorio Creek	San Mateo	Halfmoon Bay	1	1	1	1	1	2	1	1	2
Arroyo de los Frijoles	San Mateo	Pescadero	1	1	1	1	1	2	1	1	2
Oak Knoll Creek	San Luis Obispo	-	1	1	1	1	1	2	1	1	2
San Carpoforo Creek	San Luis Obispo	-	1	1	1	1	1	2	1	1	2
Villa Creek	San Luis Obispo	-	1	1	1	1	1	2	1	1	2

Stream	County	City	FINAL Rank Score
Pajaro River	Santa Cruz	Pajaro Dunes	16875
Aptos Creek	Santa Cruz	Santa Cruz	3000
Willow Creek	San Luis Obispo	Cayucos	3000
Elkhorn Slough	Monterey	Moss Landing	2700
San Lorenzo River	Santa Cruz	Santa Cruz	2500
Parajo River	Monterey	Moss Landing	2025
San Luis Obispo Creek	San Luis Obispo	Pismo Beach	1500
Cayucos Creek	San Luis Obispo	Cayucos	1125
Little Cayucos Creek	San Luis Obispo	Cayucos	1125
Watsonville Slough	Santa Cruz	Pajaro Dunes	1125
Pismo Creek	San Luis Obispo	Avila Beach	900
Carmel River	Monterey	Carmel	750
Soquel Creek	Santa Cruz	Santa Cruz	500
Pescadero Creek	San Mateo	Pescadero	375
Unnamed Creek	San Luis Obispo	Morro Bay	300
Salinas River	Monterey	Salinas	270
Arroyo Grande Creek	San Luis Obispo	Oceano	225
Morro Creek	San Luis Obispo	Morro Bay	225
Moore Creek	Santa Cruz	Santa Cruz	200
Santa Rosa Creek	San Luis Obispo	Cambria	200
Canyon Del Ray	Monterey	Sand City	180
Rodeo Creek Gulch	Santa Cruz	Santa Cruz	150
Montara Creek	San Mateo	Montara	100
Alva Paul Creek	San Luis Obispo	Morro Bay	75



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