

FLOOD INSURANCE STUDY



SAN DIEGO COUNTY, CALIFORNIA AND INCORPORATED AREAS VOLUME 2 OF 7



COMMUNITY NAME	COMMUNITY NUMBER
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CARLSBAD, CITY OF	060285
CHULA VISTA, CITY OF	065021
CORONADO, CITY OF	060287
DEL MAR, CITY OF	060288
EL CAJON, CITY OF	060289
ENCINITAS, CITY OF	060726
ESCONDIDO, CITY OF	060290
IMPERIAL BEACH, CITY OF	060291
LEMON GROVE, CITY OF	060723
NATIONAL CITY, CITY OF	060293
OCEANSIDE, CITY OF	060294
POWAY, CITY OF	060702
SAN DIEGO, CITY OF	060295
SAN DIEGO COUNTY, UNINCORPORATED AREAS	060284
SAN MARCOS, CITY OF	060296
SANTEE, CITY OF	060703
SOLANA BEACH, CITY OF	060725
VISTA, CITY OF	060297

COMMUNITY NAME	COMMUNITY NUMBER
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*LA MESA, CITY OF 060292

*NON-FLOODPRONE COMMUNITY



REVISED: JANUARY 19, 2001

Federal Emergency Management Agency

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

This publication incorporates revisions to the original Flood Insurance Study. These revisions are presented in Section 10.0.

Initial Countywide Flood Insurance Study Effective Date: June 19, 1997

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Flood Insurance Rate Map

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
(FEET NGVD)								
Agua Hedionda Creek (At City of Carlsbad)								
A	6,000	320	2,057	4.8	32.2	32.2	32.4	0.2
B	6,260	320	2,674	3.7	33.5	33.5	33.8	0.3
C	6,560	313	2,658	3.7	34.6	34.6	34.9	0.3
D	6,960	128	1,190	8.3	37.1	37.1	37.4	0.3
E	7,210	145	1,402	7.0	40.1	40.1	40.5	0.4
F	7,410	98	661	14.9	43.5	43.5	43.5	0.0
G	8,015	300	1,799	4.5	48.2	48.2	48.3	0.1
H	8,350	93	944	8.6	48.1	48.1	48.5	0.4
I	8,745	97	908	8.9	48.8	48.8	49.1	0.3
J	9,320	106	927	8.7	49.9	49.9	50.5	0.6
K	9,850	73	526	15.4	51.9	51.9	51.9	0.0
L	10,620	300	1,136	7.1	60.4	60.4	61.0	0.6
M	11,185	200	832	9.7	62.2	62.2	62.2	0.0
N	11,650	200	947	8.5	66.5	66.5	67.5	1.0
O	12,100	465	1,559	5.2	69.8	69.8	70.7	0.9
P	12,590	372	1,326	5.9	73.5	73.5	74.2	0.7
Q	12,910	312	921	8.5	75.4	75.4	75.7	0.3
R	13,340	162	1,141	6.8	78.4	78.4	79.1	0.7
S	13,740	127	1,119	7.0	80.6	80.6	81.6	1.0
T	14,040	200	827	9.4	84.2	84.2	84.2	0.0
U	14,430	200	948	8.2	87.9	87.9	88.6	0.7
V	14,900	140	832	9.4	91.8	91.8	92.5	0.7
W	15,360	130	836	9.3	97.3	97.3	97.3	0.0
X	15,560	153	673	11.6	102.4	102.4	103.1	0.7

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

AGUA HEDIONDA CREEK (AT CITY OF CARLSBAD)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	INCREASE	
Agua Hedionda Creek (At City of Vista)	A	0	624	11.2	351.2	351.2	351.3	0.1	
	B	198	386	8.4	355.6	355.6	355.7	0.1	
	C	873	210	2.4	358.8	358.8	358.8	0.0	
	D	1,020	110	6.5	361.8	361.8	361.8	0.0	
	E	1,287	285	1.6	375.2	375.2	375.2	0.0	
	F	1,550	310	1.0	375.2	375.2	375.2	0.0	
	G	1,972	160	2.1	375.2	375.2	375.2	0.0	
	H	2,402	310	1.9	375.3	375.3	375.4	0.1	
	I	2,662	139	7.6	376.7	376.7	376.7	0.0	
	J	2,878	123	334	8.1	379.4	379.4	379.4	0.0
	K	3,481	140	344	7.8	386.2	386.2	386.2	0.0
	L	3,706	145	332	8.1	389.2	389.2	389.3	0.1
	M	4,163	220	989	2.7	396.8	396.8	397.0	0.2
	N	4,592	130	722	3.7	401.2	401.2	401.2	0.0
	O	5,464	105	299	9.0	408.8	408.8	408.8	0.0
	P	5,718	128	464	5.8	411.3	411.3	411.4	0.1
	Q	5,970	75	255	10.6	413.8	413.8	413.9	0.1
	R	6,318	214	1,104	2.5	420.6	420.6	421.3	0.7
	S	6,948	117	301	9.0	431.3	431.3	431.3	0.0
	T	7,291	85	371	5.7	438.6	438.6	438.7	0.1
	U	7,734	125	277	7.6	441.4	441.4	441.4	0.0
	V	8,111	120	325	6.5	448.1	448.1	448.1	0.0
	W	8,501	83	221	9.5	455.2	455.2	455.2	0.0
	X	8,870	72	211	10.0	463.4	463.4	463.4	0.0
	Y	9,197	45	185	11.4	465.3	465.3	465.3	0.0
	Z	9,646	40	175	12.0	475.5	475.5	475.7	0.2

¹Feet Above Limit of Detailed Study

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Agua Hedionda Creek (At City of Vista) (Cont'd)	AA	10,146	150	14.0	484.4	484.4	484.7	0.3
	AB	10,407	185	11.4	489.3	489.3	489.9	0.6
	AC	10,810	200	2.2	526.6	526.6	527.6	1.0

¹Feet Above City of Vista Corporate Limits

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**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

AGUA HEDIONDA CREEK (AT CITY OF VISTA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE 1	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET ABOVE)	WITH FLOODWAY	INCREASE
Beaver Hollow Creek	A	2,700	414	9.7	1,075.7	1,075.7	1,076.7	1.0
	B	3,150	361	11.1	1,086.8	1,086.8	1,086.9	0.1
	C	3,520	361	11.1	1,092.4	1,092.4	1,092.4	0.0
	D	3,767	399	10.0	1,097.7	1,097.7	1,097.9	0.2
	E	3,912	633	6.3	1,100.0	1,100.0	1,100.5	0.5
	F	3,932	604	6.6	1,101.9	1,101.9	1,101.9	0.0
	G	4,092	363	11.0	1,104.5	1,104.5	1,104.7	0.2
	H	4,372	310	12.9	1,111.9	1,111.9	1,111.9	0.0
	I	4,712	353	11.3	1,122.7	1,122.7	1,122.9	0.2
	J	5,132	339	11.8	1,127.8	1,127.8	1,128.4	0.6
	K	5,482	380	10.5	1,133.7	1,133.7	1,133.9	0.2
	L	5,814	416	9.6	1,146.2	1,146.2	1,146.8	0.6
	M	6,294	362	11.0	1,167.6	1,167.6	1,167.6	0.0
	N	6,524	616	6.5	1,170.6	1,170.6	1,170.9	0.3
	O	6,954	405	9.9	1,175.1	1,175.1	1,175.4	0.3
	P	7,354	322	12.4	1,184.1	1,184.1	1,184.1	0.0
	Q	7,704	424	9.4	1,197.4	1,197.4	1,197.4	0.0
	R	7,934	390	10.3	1,200.9	1,200.9	1,201.1	0.2
	S	8,364	308	13.0	1,210.8	1,210.8	1,210.8	0.0
	T	8,698	302	13.2	1,223.5	1,223.5	1,223.5	0.0
	U	9,098	334	12.0	1,233.0	1,233.0	1,233.0	0.0
	V	9,416	339	11.8	1,246.8	1,246.8	1,246.8	0.0
	W	9,836	346	10.1	1,268.5	1,268.5	1,268.5	0.0
	X	10,216	296	11.8	1,291.5	1,291.5	1,291.5	0.0
	Y	10,536	46	13.7	1,304.4	1,304.4	1,304.4	0.0
	Z	10,948	51	11.1	1,333.3	1,333.3	1,333.3	0.0

1 Feet Above Confluence With Sweetwater River

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Beaver Hollow Creek (Cont'd)	AA	11,197	254	13.8	1,340.7	1,340.7	1,340.7	0.0
	AB	11,597	293	12.0	1,356.8	1,356.8	1,356.8	0.0
	AC	11,867	243	14.4	1,366.2	1,366.2	1,366.2	0.0
	AD	12,217	248	14.1	1,373.2	1,373.2	1,373.3	0.1
	AE	12,629	243	14.5	1,384.2	1,384.2	1,384.2	0.0
	AF	12,799	375	9.3	1,395.5	1,395.5	1,395.6	0.1
	AG	12,933	787	4.5	1,402.1	1,402.1	1,402.8	0.7
	AH	13,183	275	12.8	1,402.9	1,402.9	1,402.9	0.0
	AI	13,466	332	10.6	1,408.7	1,408.7	1,408.7	0.0
	AJ	13,640	538	6.5	1,416.7	1,416.7	1,416.7	0.0
	AK	13,650	518	6.8	1,416.7	1,416.7	1,416.7	0.0
	AL	13,856	301	11.7	1,421.4	1,421.4	1,421.4	0.0
	AM	14,025	284	12.4	1,422.5	1,422.5	1,422.5	0.0
	AN	14,292	369	9.5	1,436.6	1,436.6	1,436.6	0.0
	AO	14,530	271	13.0	1,446.9	1,446.9	1,446.9	0.0

¹Feet Above Confluence With Sweetwater River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

BEAVER HOLLOW CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Beeler Creek								
A	440	201	916	3.9	424.2	424.2	424.6	0.4
B	1,025	106	609	5.9	427.4	427.4	427.7	0.3
C	1,450	87	322	11.2	430.2	430.2	430.3	0.1
D	2,175	117	390	9.2	436.9	436.9	436.9	0.0
E	2,680	178	705	5.1	444.5	444.5	444.5	0.0
F	3,680	275	495	7.3	458.2	458.2	458.2	0.0
G	4,390	160	478	7.5	467.4	467.4	467.4	0.0
H	5,285	235	539	6.7	477.8	477.8	478.0	0.2
I	6,200	210	580	6.2	489.2	489.2	489.4	0.2
J	7,310	380	2,029	1.8	500.6	500.6	500.7	0.1
K	8,120	238	616	5.8	504.9	504.9	504.9	0.0
L	8,780	247	503	7.2	514.5	514.5	514.6	0.1
M	9,755	125	369	9.8	527.2	527.2	527.2	0.0
N	10,835	97	357	10.1	542.0	542.0	542.4	0.4
O	11,735	148	264	7.2	550.4	550.4	550.4	0.0
P	12,770	233	343	5.5	565.5	565.5	565.5	0.0
Q	13,540	298	386	4.9	576.9	576.9	576.9	0.0
R	14,720	133	208	6.7	598.0	598.0	598.3	0.3
S	15,480	277	354	4.0	606.0	606.0	606.0	0.0
T	16,460	226	275	5.1	619.4	619.4	619.6	0.2
U	17,380	331	370	3.8	631.1	631.1	631.1	0.0
V	17,850	142	259	5.4	637.5	637.5	637.5	0.0

¹Feet Above Confluence With Poway Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NGVD)			
Broadway Creek								
A	450	25	76	9.6	373.6	373.6	373.6	0.0
B	1,800	33	125	5.1	380.1	380.1	380.1	0.0
C	2,233	49	254	2.5	383.7	383.7	383.7	0.0
D	2,700	35	104	5.0	386.2	386.2	386.2	0.0
E	3,240	288	331	3.7	389.2	389.2	389.2	0.0
F	3,800	99	364	3.2	392.0	392.0	392.6	0.6
G	4,400	26	103	11.4	394.8	394.8	394.9	0.1
H	5,400	43	209	4.9	403.3	403.3	403.6	0.3
I	5,800	32	176	5.8	403.7	403.7	404.5	0.8
J	6,350	217	516	2.0	410.5	410.5	411.5	1.0
K	7,400	272	663	1.4	415.8	415.8	416.0	0.2
L	7,910	152	426	2.1	419.4	419.4	420.2	0.8
M	8,425	20	90	10.0	419.8	419.8	420.5	0.7
N	9,135	20	104	8.7	424.7	424.7	424.7	0.0
O	10,010	17	51	17.6	430.7	430.7	430.7	0.0
P	10,600	16	38	24.0	434.8	434.8	434.8	0.0
Q	12,615	20	60	12.5	458.7	458.7	459.5	0.8
R	13,915	20	50	15.9	468.6	468.6	468.8	0.2

¹Feet Above Confluence With Foster Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BROADWAY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
						(FEET NGVD)		
Buena Creek								
A	729	80	465	10.8	358.4	358.4	358.4	0.0
B	978	147	721	6.9	360.7	360.7	361.3	0.6
C	1,220	87	502	10.0	361.8	361.8	362.2	0.4
D	1,471	117	778	6.4	363.9	363.9	364.2	0.3
E	1,660	250	892	5.6	364.4	364.4	364.9	0.5
F	1,890	191	906	5.5	365.5	365.5	365.7	0.2
G	2,113	178	857	5.8	366.2	366.2	366.2	0.0
H	2,209	158	638	7.8	366.2	366.2	366.2	0.0
I	2,350	187	923	5.4	367.2	367.2	367.4	0.2
J	2,608	100	458	10.9	367.5	367.5	367.5	0.0
K	2,858	140	744	6.7	370.2	370.2	370.3	0.1
L	3,079	284	1,575	3.2	371.1	371.1	371.2	0.1
M	3,310	90	390	12.8	371.1	371.1	371.2	0.1
N	3,710	145	706	7.1	375.0	375.0	375.5	0.5
O	4,092	143	610	8.2	377.2	377.2	377.5	0.3
P	4,129	117	482	10.4	379.0	379.0	379.3	0.3
Q	5,353	53	296	13.5	388.7	388.7	388.7	0.0
R	5,842	86	359	11.1	395.9	395.9	395.9	0.0
S	6,463	74	914	5.4	408.7	408.7	408.7	0.0
T	6,742	265	2,171	2.3	408.8	408.8	408.9	0.1
U	7,239	570	2,033	2.4	409.1	409.1	409.3	0.2
V	7,476	235	733	6.7	409.3	409.3	409.3	0.0
W	7,712	345	688	7.1	413.9	413.9	413.9	0.0
X	7,967	299	827	4.5	416.4	416.4	416.4	0.0
Y	8,213	316	582	6.4	417.8	417.8	417.8	0.0
Z	8,455	304	588	6.3	420.4	420.4	420.4	0.0

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 BUENA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE 1	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	
Buena Creek (Cont'd)	8,654	314	621	5.9	422.1	422.1	422.1	0.0
	8,702	290	493	7.5	422.8	422.8	422.9	0.1
	8,771	248	497	7.4	423.4	423.4	423.4	0.0
	8,811	210	479	7.7	424.1	424.1	424.1	0.0
	8,860	190	735	5.0	424.6	424.6	425.0	0.4
	9,155	170	492	7.5	426.5	426.5	426.8	0.3
	9,413	226	526	7.0	430.5	430.5	430.6	0.1
	9,658	195	1,026	3.6	442.9	442.9	442.9	0.0
	9,735	214	1,884	2.0	443.1	443.1	443.1	0.0
	9,935	72	524	6.0	443.1	443.1	443.1	0.0
	10,370	132	358	10.3	447.2	447.2	447.2	0.0
	10,616	83	448	8.3	449.8	449.8	450.6	0.8
	10,863	73	313	11.8	453.9	453.9	453.9	0.0
	10,917	130	385	9.6	459.1	459.1	459.1	0.0
	11,182	87	376	9.8	461.3	461.3	461.8	0.5
	11,433	98	571	6.5	464.3	464.3	464.8	0.5
	11,684	85	353	10.5	466.8	466.8	466.8	0.0
	11,895	110	425	8.7	469.9	469.9	470.2	0.3
	12,108	75	327	11.3	476.5	476.5	476.5	0.0
	12,347	180	666	5.0	479.9	479.9	480.4	0.5
	12,782	371	905	3.6	488.5	488.5	488.5	0.0
	12,844	400	469	7.0	489.4	489.4	489.5	0.1
	13,067	372	680	3.7	491.1	491.1	491.4	0.3
	13,331	133	327	7.6	497.0	497.0	497.1	0.1
	13,578	142	301	8.3	502.0	502.0	502.0	0.0
	13,835	67	251	10.0	508.2	508.2	508.2	0.0

1 Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

BUENA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Buena Creek (Cont'd)	14,084	40	197	12.7	513.0	513.0	513.5	0.5
	14,335	108	297	8.4	522.0	522.0	522.0	0.0
	14,573	135	325	7.7	527.1	527.1	527.3	0.2
	14,823	100	272	9.2	533.1	533.1	533.5	0.4
	15,070	125	310	8.1	542.3	542.3	542.5	0.2
	15,313	63	254	9.8	545.6	545.6	546.0	0.4
	15,550	46	206	12.1	552.1	552.1	552.9	0.8
	15,791	84	280	8.9	558.4	558.4	558.6	0.2
	16,048	39	195	12.8	565.2	565.2	565.4	0.2
	16,276	98	299	8.4	570.6	570.6	571.1	0.5
	16,528	80	247	10.1	577.1	577.1	577.1	0.0
	16,774	68	263	9.5	581.1	581.1	581.3	0.2
	17,016	49	210	11.9	585.2	585.2	585.2	0.0
	17,270	43	202	12.4	594.5	594.5	594.5	0.0
	17,510	53	216	11.6	600.1	600.1	600.1	0.0
	17,570	55	212	11.8	604.3	604.3	604.3	0.0
	17,715	53	223	11.2	609.4	609.4	609.4	0.0
	18,020	50	210	11.9	616.3	616.3	616.3	0.0
	18,267	35	222	11.3	620.3	620.3	620.4	0.1
	18,280	70	358	5.5	622.0	622.0	623.0	1.0
	18,360	49	442	4.5	622.3	622.3	623.2	0.9
	18,420	62	621	3.2	629.8	629.8	629.8	0.0
	18,670	56	200	5.5	629.9	629.9	629.9	0.0
	18,840	31	283	3.9	636.4	636.4	636.4	0.0
	18,945	20	249	4.4	642.2	642.2	642.2	0.0
	18,975	31	219	5.0	642.3	642.3	642.3	0.0

¹Feet Above Mouth

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Buena Creek (Cont'd) CA CB CC CD CE CF CG CH	19,150	26	98	11.2	647.4	647.4	647.7	0.3
	19,260	32	108	10.2	651.3	651.3	651.6	0.3
	19,283	20	183	6.0	656.6	656.6	656.6	0.0
	19,503	53	185	5.9	657.0	657.0	657.0	0.0
	19,543	61	252	4.4	662.5	662.5	662.5	0.0
	19,708	57	282	3.9	662.8	662.8	662.8	0.0
	19,928	27	100	11.0	665.8	665.8	665.8	0.0
	20,148	31	105	10.5	674.2	674.2	674.2	0.0

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Buena Vista Creek								
A	8,678	133	1,267	6.7	29.1	29.1	29.2	0.1
B	9,469	140	1,173	7.2	31.3	31.3	31.3	0.0
C	10,054	74	542	15.5	32.7	32.7	32.7	0.0
D	10,348	226	2,940	2.9	39.7	39.7	40.1	0.4
E	10,884	468	3,904	2.2	39.8	39.8	40.3	0.5
F	11,550	434	3,137	2.6	39.9	39.9	40.7	0.8
G	12,248	549	1,860	4.3	40.7	40.7	41.5	0.8
H	12,788	356	1,502	5.3	43.1	43.1	43.8	0.7
I	13,541	313	1,286	6.2	49.6	49.6	50.0	0.4
J	14,543	341	1,074	7.4	56.9	56.9	57.8	0.9
K	15,287	215	887	9.0	66.7	66.7	66.9	0.2
L	16,002	280	1,234	6.5	73.4	73.4	74.3	0.9
M	16,150	385	2,121	3.8	78.1	78.1	79.0	0.9
N	17,040	189	1,016	7.9	89.2	89.2	89.7	0.5
O	17,526	260	717	11.2	101.6	101.6	101.7	0.1
P	17,908	128	588	13.6	146.4	146.4	147.1	0.7
Q	18,347	131	794	10.1	161.0	161.0	161.0	0.0
R	18,739	270	1,508	5.3	164.0	164.0	164.0	0.0
S	19,300	133	1,512	5.3	174.5	174.5	174.5	0.0
T	20,135	239	1,776	4.5	175.9	175.9	176.5	0.6
U	20,642	155	1,007	7.9	177.7	177.7	177.7	0.0
V	21,042	151	741	10.8	180.5	180.5	180.5	0.0
W	21,531	125	636	12.6	186.2	186.2	186.2	0.0
X	21,916	58	483	16.6	192.1	192.1	192.1	0.0
Y	22,284	136	687	11.6	194.9	194.9	194.9	0.0
Z	22,784	136	714	11.2	197.8	197.8	197.8	0.0

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

BUENA VISTA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Buena Vista Creek (Cont'd)	23,281	91	842	9.5	202.9	202.9	202.9	0.0
	23,528	112	1,006	8.0	204.7	204.7	204.7	0.0
	24,095	101	908	8.8	207.4	207.4	207.4	0.0
	24,596	71	648	12.4	211.2	211.2	211.2	0.0
	25,085	239	904	8.9	218.2	218.2	218.2	0.0
	25,323	228	999	8.0	219.9	219.9	220.3	0.4
	25,527	142	712	11.2	221.2	221.2	221.9	0.7
	25,684	161	1,342	6.0	224.0	224.0	224.2	0.2
	25,833	228	854	9.4	227.4	227.4	227.4	0.0
	26,387	264	927	8.6	238.3	238.3	238.3	0.0
	26,577	405	2,244	3.6	239.1	239.1	239.1	0.0
	26,822	462	2,667	2.9	240.8	240.8	240.9	0.1
	27,321	235	1,033	7.6	241.4	241.4	241.8	0.4
	27,823	233	861	9.1	244.9	244.9	245.4	0.5
	28,067	192	735	10.6	250.5	250.5	250.5	0.0
	28,315	238	843	9.3	254.1	254.1	254.1	0.0
	28,808	172	712	11.0	259.7	259.7	259.7	0.0
	29,823	94	565	13.8	271.5	271.5	271.5	0.0
	30,061	152	1,060	7.4	275.7	275.7	275.8	0.1
	30,683	119	747	10.4	280.9	280.9	281.1	0.2
	31,100	168	989	7.9	283.7	283.7	284.5	0.8
	31,250	118	781	10.0	285.1	285.1	285.1	0.0
	31,415	161	1,465	5.3	289.2	289.2	289.2	0.0
	32,162	160	737	9.9	293.7	293.7	293.7	0.0
	32,570	60	771	9.5	296.3	296.3	296.7	0.4
	32,900	209	1,583	4.6	298.9	298.9	298.9	0.0

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

BUENA VISTA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
						(FEET NGVD)		
Buena Vista Creek (Cont'd)								
BA	33,420	113	858	6.0	299.7	299.7	299.7	0.0
BB	34,028	144	708	7.2	301.5	301.5	302.0	0.5
BC	34,296	277	1,596	3.3	305.1	305.1	305.8	0.7
BD	34,715	142	1,044	4.9	305.4	305.4	306.2	0.8
BE	35,405	146	1,148	4.6	311.2	311.2	312.0	0.8
BF	36,291	214	1,425	5.1	311.8	311.8	312.5	0.7
BG	41,152	125	418	6.1	345.1	345.1	345.1	0.0
BH	41,465	140	374	8.5	349.3	349.3	349.3	0.0
BI	41,705	42	212	10.9	349.7	349.7	349.7	0.0
BJ	41,988	50	200	11.5	353.8	353.8	353.8	0.0
BK	42,268	40	184	12.5	357.8	357.8	357.8	0.0
BL	42,588	65	227	11.3	367.8	367.8	367.9	0.1
BM	42,689	30	169	13.6	369.2	369.2	369.2	0.0
BN	42,819	53	253	9.1	372.0	372.0	372.0	0.0
BO	43,048	35	178	13.0	373.4	373.4	373.4	0.0
BP	43,438	178	317	8.6	384.7	384.7	384.7	0.0

¹Feet Above Mouth

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	INCREASE
Buena Vista Creek Tributary I								
A	48	75	318	3.6	414.0	414.0	414.0	0.0
B	696	143	197	7.6	422.4	422.4	422.4	0.0
C	1,590	90	172	7.1	433.0	433.0	433.0	0.0
D	2,048	161	682	1.6	439.1	439.1	440.0	0.9
E	2,205	261	204	6.8	440.1	440.1	440.1	0.0
F	2,889	95	193	7.0	452.1	452.1	452.2	0.1
G	3,056	83	135	7.5	454.4	454.4	454.4	0.0
H	3,350	107	152	6.6	461.3	461.3	461.3	0.0
I	3,652	121	153	7.5	468.0	468.0	468.0	0.0
J	3,882	93	116	7.1	476.8	476.8	476.8	0.0

¹Feet Above Headwall Culvert at Monte Vista Drive and South Santa Fe Avenue

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

T A B L E 8

FLOODWAY DATA

BUENA VISTA CREEK TRIBUTARY 1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Calavera Creek	140 ¹	138	533	3.3	44.0	44.0	44.7	0.7
	420 ¹	300	947	1.8	44.2	44.2	45.0	0.8
	640 ¹	165	385	8.2	44.5	44.5	44.6	0.1
	1,000 ¹	150	267	6.5	47.3	47.3	47.5	0.2
	1,220 ¹	57	232	7.5	48.1	48.1	48.8	0.7
	1,500 ¹	38	183	9.5	49.9	49.9	50.2	0.3
	1,800 ¹	50	244	7.1	51.6	51.6	52.3	0.7
	2,100 ¹	91	217	8.0	53.6	53.6	54.5	0.9
	2,400 ¹	36	203	8.6	55.8	55.8	56.5	0.7
	2,700 ¹	38	214	7.7	57.5	57.5	58.1	0.6
	3,290 ¹	117	198	6.8	61.2	61.2	62.2	1.0
	3,950 ¹	80	333	4.1	68.8	68.8	69.8	1.0
	4,620 ¹	40	139	5.6	74.2	74.2	74.6	0.4
	Calavera Creek Split Flow	4,690 ²	70	181	3.2	73.0	73.0	74.0

1Feet Above Confluence With Agua Hedionda Creek

2Feet Above Confluence With Calavera Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

CALAVERA CREEK - CALAVERA CREEK SPLIT FLOW

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Carmel Valley Creek	A	0	990	9.9	12.3	12.3	12.3	0.0
	B	93	1,199	8.2	26.0	26.0	26.0	0.0
	C	380	3,161	3.1	27.7	27.7	27.7	0.0
	D	570	9,079	1.1	27.8	27.8	27.9	0.1
	E	900	6,620	1.2	27.9	27.9	27.9	0.0
	F	1,380	1,713	4.7	28.0	28.0	28.0	0.0
	G	1,920	2,515	3.2	28.3	28.3	28.9	0.6
	H	2,820	1,519	5.3	29.1	29.1	30.1	1.0
	I	3,410	741	10.9	33.1	33.1	33.2	0.1
	J	3,750	782	10.3	36.4	36.4	37.1	0.7
	K	4,560	904	8.2	44.9	44.9	45.4	0.5
	L	4,950	960	7.7	47.7	47.7	48.7	1.0
	M	5,320	1,071	6.9	51.1	51.1	51.2	0.1
	N	5,680	1,027	7.2	52.8	52.8	53.6	0.8
	O	5,960	1,157	6.4	55.1	55.1	55.7	0.6
	P	6,900	115	11.4	63.2	63.2	63.9	0.7
	Q	7,340	160	5.9	68.2	68.2	68.8	0.6
	R	7,840	130	10.1	69.9	69.9	70.8	0.9
	S	8,380	175	9.35	74.3	74.3	75.0	0.7
	T	8,930	155	6.82	77.5	77.5	77.7	0.2
	U	9,290	230	1,292	4.9	79.3	80.2	0.9
	V	10,025	230	799	7.9	82.5	82.7	0.2
	W	10,736	80	581	9.1	84.6	85.2	0.6
	X	11,391	185	1,566	3.4	87.9	88.4	0.5
	Y	11,942	164	1,196	4.4	88.2	88.6	0.4
	Z	12,630	188	1,167	4.5	93.2	93.2	0.0

¹Feet Above Cross Section A (125 Feet Downstream From the Center of Sorrento Valley Road)

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

CARMEL VALLEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Carmel Valley Creek	AA	13,349	188	1,358	3.9	98.0	98.0	0.0
	AB	14,565	156	991	5.3	104.3	104.3	0.0
	AC	15,453	249	1,781	3.0	106.1	106.1	0.0
	AD	16,014	244	557	8.8	116.0	116.0	0.0
	AE	16,178	250	713	6.9	118.9	118.9	0.0
	AF	17,148	152	860	5.7	124.2	125.0	0.8
	AG	17,778	395	1,249	3.9	126.3	127.3	1.0

¹Feet Above Cross Section A (125 Feet Downstream From the Center of Sorrento Valley Road)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Carroll Canyon Creek	0	147	614	10.9	65.0	65.0	65.0	0.0
	20	150	906	7.4	65.8	65.8	66.8	1.0
	330	204	969	6.9	68.5	68.5	68.5	0.0
	850	304	1,208	5.5	72.0	72.0	72.1	0.1
	1,050	155	1,000	6.7	72.6	72.6	72.7	0.1
	1,220	98	512	13.1	72.6	72.6	72.6	0.0
	1,490	210	874	7.7	78.0	78.0	78.2	0.2
	1,630	263	1,533	4.4	79.5	79.5	79.5	0.0
	1,770	259	1,674	4.0	79.7	79.7	79.7	0.0
	1,825	220	1,370	4.9	79.7	79.7	79.7	0.0
	1,945	195	1,091	6.1	79.8	79.8	79.9	0.1
	1,995	270	1,092	6.1	79.9	79.9	80.1	0.2
	2,165	370	1,654	4.1	80.6	80.6	80.9	0.3
	2,305	121	595	11.3	82.6	82.6	83.0	0.4
	2,333	126	702	9.5	84.7	84.7	85.2	0.5
	2,360	175	1,111	6.0	86.0	86.0	86.5	0.5
	2,615	147	887	7.6	86.2	86.2	86.8	0.6
	2,765	106	644	10.4	86.2	86.2	86.8	0.6
	2,792	137	965	6.9	87.2	87.2	87.8	0.6
	3,059	112	850	7.9	87.5	87.5	88.1	0.6
	3,246	140	566	11.8	90.1	90.1	90.1	0.0
	3,290	150	917	7.3	90.9	90.9	91.7	0.8
	3,475	95	503	13.3	95.2	95.2	95.2	0.0
	3,718	124	963	7.0	96.9	96.9	97.9	1.0
	3,961	112	814	8.2	97.8	97.8	98.6	0.8
	4,192	118	943	5.9	99.3	99.3	99.7	0.4

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			INCREASE	
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
Carroll Canyon Creek (Cont'd)	AA	4,423	74	422	13.3	99.9	99.9	100.9	1.0
	AB	4,907	235	919	6.1	105.7	105.7	106.7	1.0
	AC	5,611	125	518	10.8	110.9	110.9	110.9	0.0
	AD	6,282	266	795	7.0	117.3	117.3	117.9	0.6
	AE	6,841	235	607	9.2	124.2	124.2	124.2	0.0
	AF	7,721	251	850	6.6	131.1	131.1	132.0	0.9
	AG	8,575	119	485	11.5	140.3	140.3	140.3	0.0
	AH	8,865	107	599	9.4	142.7	142.7	143.0	0.3
	AI	8,894	139	578	9.7	143.5	143.5	144.0	0.5
	AJ	9,325	213	624	8.6	146.2	146.2	147.2	1.0
	AK	9,560	239	629	8.9	149.6	149.6	149.9	0.3
	AL	9,635	239	652	8.6	150.2	150.2	150.2	0.0
	AM	10,305	101	451	10.0	156.8	156.8	157.8	1.0
	AN	10,758	120	465	9.7	163.2	163.2	163.8	0.6
	AO	11,338	72	356	12.6	169.2	169.2	169.2	0.0
	AP	11,697	189	690	6.5	172.9	172.9	173.7	0.8
	AQ	12,357	104	423	10.6	177.7	177.7	178.7	1.0
	AR	12,753	160	684	6.6	181.7	181.7	182.7	1.0
	AS	13,426	104	409	11.0	187.1	187.1	187.4	0.3
	AT	14,119	205	662	5.3	192.9	192.9	193.9	1.0
AU	14,821	98	347	10.1	200.5	200.5	200.9	0.4	
AV	15,012	157	557	6.3	202.2	202.2	203.2	1.0	
AW	15,076	306	898	3.9	203.3	203.3	203.8	0.5	
AX	15,354	284	1,418	2.5	204.0	204.0	204.3	0.3	
AY	16,186	81	315	11.1	204.0	204.0	204.1	0.1	
AZ	16,925	71	322	10.9	211.6	211.6	211.6	0.0	

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Carroll Canyon Creek (Cont'd)	17,108	64	297	11.8	214.1	214.1	215.1	1.0	
	17,429	170	527	6.6	218.5	218.5	219.2	0.7	
	17,495	189	269	13.0	222.5	222.5	222.8	0.3	
	17,885	148	444	7.9	226.7	226.7	227.7	1.0	
	18,115	243	449	7.8	231.0	231.0	231.0	0.0	
	18,423	98	333	10.5	234.6	234.6	234.6	0.0	
	18,834	65	292	12.0	245.5	245.5	245.5	0.0	
	19,226	160	641	5.5	249.2	249.2	249.6	0.4	
	19,585	162	541	6.5	250.2	250.2	251.0	0.8	
	19,849	144	564	6.2	252.2	252.2	252.4	0.2	
	20,029	229	1,064	3.3	253.1	253.1	253.2	0.1	
	20,275	142	510	6.9	253.3	253.3	253.4	0.1	
	20,440	248	453	7.7	256.6	256.6	256.6	0.0	
	20,986	169	831	4.2	259.0	259.0	259.4	0.4	
	21,389	125	359	9.7	261.1	261.1	261.5	0.4	
	22,144	121	512	6.8	271.6	271.6	272.6	1.0	
	22,734	89	348	10.1	278.3	278.3	279.1	0.8	
	23,295	121	443	7.9	286.9	286.9	287.9	1.0	
	24,012	62	285	12.3	304.2	304.2	304.2	0.0	
	24,551	147	513	6.8	312.7	312.7	313.6	0.9	
	25,290	348	710	4.9	321.4	321.4	321.6	0.2	
	25,965	219	509	6.9	328.9	328.9	329.5	0.6	
	26,465	224	518	6.8	334.9	334.9	335.9	1.0	
	26,705	25	211	16.6	338.8	338.8	338.8	0.0	
	26,840	25	313	11.2	345.1	345.1	345.1	0.0	
	27,148	236	1,831	1.9	347.2	347.2	347.2	0.0	

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (Cont'd)	CA	27,728	847	4.1	347.2	347.2	347.3	0.1
	CB	28,296	533	6.6	347.8	347.8	347.8	0.0
	CC	28,828	265	13.2	355.9	355.9	355.9	0.0
	CD	29,286	483	7.2	360.6	360.6	360.6	0.0
	CE	29,814	310	11.3	370.2	370.2	370.2	0.0
	CF	30,170	621	5.6	379.5	379.5	380.5	1.0
	CG	30,546	579	6.0	384.0	384.0	384.0	0.0
	CH	30,872	651	5.4	388.3	388.3	388.3	0.0
	CI	31,220	1,130	3.1	393.3	393.3	393.3	0.0
	CJ	31,490	723	1.5	393.7	393.7	393.7	0.0
	CK	31,690	103	10.7	394.3	394.3	394.3	0.0
	CL	32,010	159	6.9	400.2	400.2	400.2	0.0
	CM	32,080	101	10.9	400.6	400.6	400.6	0.0
	CN	32,260	117	9.4	407.3	407.3	407.3	0.0
	CO	32,637	181	6.1	414.0	414.0	414.3	0.3
	CP	32,924	96	11.4	419.4	419.4	419.4	0.0
	CQ	33,509	137	8.1	424.2	424.2	424.3	0.1
	CR	34,099	105	10.4	432.3	432.3	432.3	0.0
	CS	34,574	128	8.6	438.8	438.8	438.8	0.0
	CT	34,994	77	14.4	446.3	446.3	446.3	0.0
CU	35,498	966	1.4	458.0	458.0	459.0	1.0	
CV	35,770	2,273	0.6	458.0	458.0	459.0	1.0	
CW	36,220	169	7.9	458.9	458.9	459.7	0.8	
CX	36,800	190	3.8	467.3	467.3	468.3	1.0	
CY	37,430	81	6.7	475.9	475.9	476.5	0.6	
CZ	37,862	157	3.7	481.9	481.9	482.8	0.9	

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (Cont'd)	39,028	79	163	8.2	497.0	497.0	497.7	0.7
	39,821	93	197	6.8	507.7	507.7	507.9	0.2
	39,978	172	321	4.2	509.1	509.1	509.1	0.0
	40,693	89	169	7.9	520.1	520.1	520.9	0.8
	41,200	90	173	7.7	527.6	527.6	528.4	0.8
	41,525	40	131	10.2	532.2	532.2	532.8	0.6
	41,593	102	270	5.0	533.8	533.8	534.7	0.9
	42,090	79	162	8.3	539.3	539.3	539.4	0.1
	42,750	93	184	7.3	548.0	548.0	549.0	1.0
	43,150	89	182	7.4	553.6	553.6	553.8	0.2
	43,350	134	195	6.9	558.9	558.9	558.9	0.0
	43,980	209	297	4.5	565.4	565.4	565.4	0.0
	44,545	115	185	7.2	573.6	573.6	574.1	0.5
	45,388	182	235	5.7	585.9	585.9	586.3	0.4
	46,220	66	153	8.8	599.2	599.2	599.5	0.3
	46,810	60	153	8.8	610.2	610.2	611.1	0.9
	47,315	49	141	9.5	619.7	619.7	620.3	0.6
	47,900	77	161	8.3	628.6	628.6	629.0	0.4
	48,500	81	165	8.1	640.8	640.8	640.8	0.0
	49,052	60	150	8.9	650.7	650.7	651.6	0.9
	49,218	37	129	10.4	655.1	655.1	655.8	0.7
	49,475	130	288	4.7	658.1	658.1	659.1	1.0
	49,700	139	197	6.8	665.4	665.4	665.4	0.0
	50,370	67	154	8.7	683.5	683.5	684.5	1.0
	50,985	100	176	7.6	699.3	699.3	699.3	0.0
	51,640	51	141	9.5	715.6	715.6	715.6	0.0

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 CARROLL CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Carroll Canyon Creek (Cont'd) EA EB EC	52,000	58	148	9.1	724.3	724.3	724.3	0.0
	52,350	55	145	9.2	733.4	733.4	733.4	0.0
	52,750	58	147	9.1	746.3	746.3	746.3	0.0

¹Feet Above Downstream Face of Atchison, Topeka & Santa Fe Railway Bridge

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Coleman Creek									
A	5,800	79	614	14.2	3,568.4	3,568.4	3,569.4	1.0	
B	6,500	124	743	11.8	3,577.3	3,577.3	3,577.3	0.0	
C	6,970	105	604	14.5	3,581.5	3,581.5	3,581.5	0.0	
D	7,570	124	711	12.3	3,593.3	3,593.3	3,593.3	0.0	
E	7,620	165	848	10.3	3,594.5	3,594.5	3,594.5	0.0	
F	7,680	190	1,793	4.9	3,601.3	3,601.3	3,601.3	0.0	
G	8,000	217	837	10.5	3,603.9	3,603.9	3,604.1	0.2	
H	8,550	125	581	5.8	3,607.3	3,607.3	3,607.6	0.3	
I	9,050	147	371	9.0	3,610.1	3,610.1	3,610.1	0.0	
J	9,550	84	320	10.4	3,614.8	3,614.8	3,615.1	0.3	
K	10,080	69	316	10.6	3,634.8	3,634.8	3,634.8	0.0	
L	10,140	80	764	4.4	3,638.6	3,638.6	3,638.6	0.0	
M	10,555	66	275	12.1	3,641.5	3,641.5	3,641.5	0.0	
N	11,015	100	346	9.7	3,659.7	3,659.7	3,659.7	0.0	
O	11,570	106	382	8.8	3,665.1	3,665.1	3,665.1	0.0	
P	12,080	62	274	12.2	3,673.1	3,673.1	3,673.1	0.0	
Q	12,595	89	303	11.0	3,708.2	3,708.2	3,708.2	0.0	
R	13,095	83	313	10.7	3,752.5	3,752.5	3,752.5	0.0	
S	13,545	116	351	9.5	3,778.9	3,778.9	3,778.9	0.0	
T	14,025	90	322	10.4	3,788.3	3,788.3	3,788.3	0.0	
U	14,505	74	290	11.5	3,832.4	3,832.4	3,832.4	0.0	
V	15,010	78	296	11.3	3,869.6	3,869.6	3,869.6	0.0	
W	15,560	58	260	12.9	3,889.8	3,889.8	3,889.8	0.0	
X	16,160	95	316	10.6	3,905.6	3,905.6	3,905.6	0.0	
Y	16,660	90	324	10.3	3,918.6	3,918.6	3,918.6	0.0	
Z	17,150	109	345	9.7	3,926.7	3,926.7	3,927.1	0.4	

¹Feet Above Confluence With San Diego River

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 COLEMAN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Coleman Creek (Cont'd)	17,550	58	170	10.0	3,934.7	3,934.7	3,934.8	0.1
	18,010	69	180	9.5	3,949.3	3,949.3	3,949.3	0.0
	18,460	83	186	9.2	3,955.6	3,955.6	3,955.6	0.0
	18,970	79	164	10.4	3,962.6	3,962.6	3,962.6	0.0
	19,470	86	193	8.8	3,973.8	3,973.8	3,973.8	0.0
	19,870	91	206	8.3	3,978.5	3,978.5	3,978.5	0.0
	20,080	80	554	3.1	3,982.9	3,982.9	3,982.9	0.0
	20,630	133	232	7.4	3,994.9	3,994.9	3,994.9	0.0
	21,145	116	222	7.7	4,011.9	4,011.9	4,011.9	0.0
	21,605	84	172	9.9	4,021.2	4,021.2	4,021.2	0.0
	22,105	90	194	8.8	4,033.2	4,033.2	4,033.2	0.0
	22,555	62	174	9.8	4,054.1	4,054.1	4,054.2	0.1
	23,055	51	158	10.8	4,122.3	4,122.3	4,122.3	0.0
	23,485	72	193	8.8	4,150.1	4,150.1	4,150.1	0.0
	23,643	101	1,219	1.4	4,164.3	4,164.3	4,164.3	0.0

¹Feet Above Confluence With San Diego River

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
County Ditch Creek	660	170	800	2.3	414.8	414.8	415.8	1.0
	1,415	40	230	7.8	414.9	414.9	415.9	1.0
	3,070	40	200	8.0	419.1	419.1	420.1	1.0
	4,610	30	150	9.7	427.1	427.1	427.9	0.8
	6,415	10	50	16.0	429.8	429.8	430.8	1.0
	7,850	10	60	13.3	445.0	445.0	445.7	0.7

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 COUNTY DITCH CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Deer Springs Creek A B C D E F G H I J	1,810	207	284	5.5	733.2	733.2	733.9	0.7
	2,290	153	252	6.1	739.7	739.7	739.8	0.1
	2,477	171	236	6.6	743.3	743.3	743.4	0.1
	2,642	175	315	4.9	744.9	744.9	745.2	0.3
	3,047	121	341	4.5	747.8	747.8	747.8	0.0
	3,332	72	194	8.0	749.1	749.1	749.2	0.1
	3,722	186	232	6.7	758.2	758.2	758.3	0.1
	4,057	72	195	7.9	762.3	762.3	762.6	0.3
	4,404	60	195	8.0	766.2	766.2	766.8	0.6
	4,700	61	166	9.3	774.0	774.0	774.0	0.0

¹Feet Above Confluence With Twin Oaks Valley Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Descanso Creek	A	450	134	8.2	3,396.1	3,390.8 ²	3,390.8 ²	0.0	
	B	1,045	144	7.6	3,398.9	3,398.9	3,398.9	0.0	
	C	1,245	143	7.7	3,404.8	3,404.8	3,404.8	0.0	
	D	1,565	118	9.3	3,409.4	3,409.4	3,409.4	0.0	
	E	1,605	117	9.4	3,409.9	3,409.9	3,409.9	0.0	
	F	1,775	80	8.1	3,412.8	3,412.8	3,412.8	0.0	
	G	2,145	35	10.1	3,422.0	3,422.0	3,422.0	0.0	
	H	2,565	39	9.7	3,448.2	3,448.2	3,448.2	0.0	
	I	2,785	29	10.8	3,457.5	3,457.5	3,457.5	0.0	
	J	3,130	37	9.9	3,478.9	3,478.9	3,478.9	0.0	
	K	3,200	18	12.7	3,485.8	3,485.8	3,485.8	0.0	
	L	3,220	40	8.4	3,487.4	3,487.4	3,487.4	0.0	
	M	3,400	42	7.8	3,489.2	3,489.2	3,489.2	0.0	
	N	3,585	33	10.3	3,495.8	3,495.8	3,495.8	0.0	
	O	3,745	37	10.0	3,498.1	3,498.1	3,498.1	0.0	
	P	4,175	76	4.7	3,501.7	3,501.7	3,501.7	0.0	
	Q	4,475	48	12.6	3,507.8	3,507.8	3,507.8	0.0	
	R	4,690	148	5.1	3,510.4	3,510.4	3,510.4	0.0	
	S	5,080	167	9.8	3,516.2	3,516.2	3,516.2	0.0	
	T	5,450	329	869	6.9	3,521.7	3,521.7	3,521.7	0.0
	U	5,950	558	1,058	5.7	3,527.1	3,527.1	3,528.1	1.0
	V	6,140	500	916	6.5	3,528.9	3,528.9	3,529.3	0.4
	W	6,690	220	676	8.9	3,535.3	3,535.3	3,535.3	0.0
	X	6,755	230	716	8.4	3,537.0	3,537.0	3,537.0	0.0
	Y	7,290	141	922	6.5	3,538.9	3,538.9	3,539.0	0.1
	Z	7,980	150	726	8.3	3,540.6	3,540.6	3,540.8	0.2

¹Feet Above Confluence With Sweetwater River (Descanso Area)

²Elevation Computed Without Consideration of Backwater From Sweetwater River (Descanso Area)

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 DESCANSO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Descanso Creek (Cont'd)	8,505	263	891	6.7	3,545.7	3,545.7	3,546.6	0.9
	8,985	48	375	16.0	3,551.9	3,551.9	3,551.9	0.0
	9,485	102	484	12.4	3,566.6	3,566.6	3,566.6	0.0
	9,865	80	541	11.1	3,571.0	3,571.0	3,571.0	0.0
	10,175	60	404	14.8	3,578.8	3,578.8	3,578.8	0.0
	10,685	107	590	10.2	3,584.9	3,584.9	3,585.9	1.0
	11,120	110	508	11.8	3,593.7	3,593.7	3,594.4	0.7
	11,480	177	589	10.2	3,603.1	3,603.1	3,603.2	0.1
	11,830	114	710	8.4	3,607.3	3,607.3	3,607.7	0.4
	12,120	99	478	12.6	3,616.8	3,616.8	3,616.8	0.0
	12,460	126	529	11.3	3,624.3	3,624.3	3,624.6	0.3
	12,780	123	724	8.3	3,629.1	3,629.1	3,629.5	0.4
	13,170	100	491	12.2	3,642.1	3,642.1	3,642.1	0.0

¹Feet Above Confluence With Sweetwater River (Descanso Area)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Encanto Branch								
A	400	72	363	7.4	109.3	109.3	109.9	0.6
B	820	77	341	10.3	112.0	112.0	112.0	0.0
C	1,040	53	282	12.4	114.2	114.2	114.4	0.2
D	1,430	66	338	10.4	120.1	120.1	120.3	0.2
E	1,960	67	380	9.2	125.4	125.4	125.9	0.5
F	2,290	127	691	5.1	129.3	129.3	129.3	0.0
G	2,770	110	392	8.9	133.2	133.2	133.7	0.5
H	3,330	79	335	10.5	138.3	138.3	138.7	0.4
I	4,160	50	323	10.9	149.2	149.2	149.5	0.3

¹Feet Above Confluence With South Las Chollas Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Escondido Creek (Above Lake Wohlford)	A	11,200	1,003	2.7	1,492.3	1,492.3	1,493.3	1.0
	B	11,650	90	3.1	1,492.6	1,492.6	1,493.6	1.0
	C	11,790	60	5.9	1,492.7	1,492.7	1,493.6	0.9
	D	11,935	60	5.9	1,492.7	1,492.7	1,493.6	0.9
	E	12,510	24	13.9	1,501.8	1,501.8	1,501.8	0.0
	F	12,985	60	9.7	1,512.2	1,512.2	1,512.2	0.0
	G	13,485	74	8.3	1,518.2	1,518.2	1,518.6	0.4
	H	13,990	110	8.6	1,524.8	1,524.8	1,525.0	0.2
	I	14,470	70	10.4	1,531.3	1,531.3	1,531.7	0.4
	J	14,845	47	12.6	1,541.8	1,541.8	1,541.8	0.0
	K	15,285	55	11.1	1,564.0	1,564.0	1,564.1	0.1
	L	15,670	90	4.1	1,565.9	1,565.9	1,566.6	0.7
	M	16,180	130	7.3	1,568.2	1,568.2	1,568.8	0.6
	N	16,615	80	10.2	1,576.0	1,576.0	1,576.5	0.5
	O	17,120	56	10.4	1,580.6	1,580.6	1,580.8	0.2

¹Feet Above Lake Wohlford Dam

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ESCONDIDO CREEK (ABOVE LAKE WOHLFORD)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Escondido Creek (Below Lake Wohlford)	A	11,025	3,065	6.9	13.2	13.2	13.2	0.0
	B	12,569	8,331	2.5	15.1	15.1	15.1	0.0
	C	14,054	6,299	3.3	15.6	15.6	15.6	0.0
	D	14,887	4,902	4.3	16.1	16.1	16.2	0.1
	E	16,040	2,664	7.9	18.6	18.6	18.7	0.1
	F	17,729	312	12.0	28.5	28.5	28.5	0.0
	G	18,534	1,255	1.8	31.4	31.4	31.6	0.2
	H	19,459	1,120	2.8	31.5	31.5	31.7	0.2
	I	20,678	792	6.0	32.5	32.5	32.7	0.2
	J	20,835	708	7.5	32.9	32.9	33.0	0.1
	K	21,927	795	4.7	37.0	37.0	37.2	0.2
	L	23,639	548	6.6	40.6	40.6	40.8	0.2
	M	25,313	600	5.8	45.3	45.3	45.5	0.2
	N	25,771	550	8.8	45.8	45.8	46.1	0.3
	O	26,606	977	10.2	51.5	51.5	51.5	0.0
	P	27,378	1,005	3.9	55.7	55.7	55.8	0.1
	Q	28,116	1,163	4.3	56.5	56.5	56.6	0.1
	R	28,780	858	5.9	57.7	57.7	57.8	0.1
	S	29,578	795	6.3	60.5	60.5	60.6	0.1
	T	30,905	254	11.4	65.3	65.3	65.3	0.0
	U	55,660	180	10.6	367.3	367.3	367.3	0.0
	V	58,990	395	9.7	399.1	399.1	399.1	0.0
	W	61,330	152	14.4	432.2	432.2	432.2	0.0
	X	63,130	198	13.4	464.1	464.1	464.1	0.0
	Y	64,805	234	12.4	503.9	503.9	503.9	0.0
	Z	67,980	194	11.3	544.7	544.7	544.7	0.0

¹Feet Above Pacific Ocean

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

ESCONDIDO CREEK (BELOW LAKE WOHLFORD)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
(FEET NGVD)								
Escondido Creek (Below Lake Wohlford) (Cont'd)	AA	70,880	309	2,219	8.6	557.8	558.0	0.2
	AB	72,700	410	2,886	6.6	566.8	566.9	0.1
	AC	75,675	126	1,198	15.9	592.3	592.3	0.0
	AD	79,280	236	2,661	6.8	611.9	612.2	0.3
	AE	80,950	378	3,980	4.5	619.4	619.4	0.0

¹Feet Above Pacific Ocean

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Eucalyptus Hills Creek (East Branch)	A	700	233	3.6	374.0	357.52	358.5	1.0	
	B	1,130	275	3.1	374.0	358.82	359.8	1.0	
	C	1,570	117	7.2	377.6	377.6	377.6	0.0	
	D-I ³								
	J	3,425	205	455	1.9	388.1	389.1	1.0	
	K	3,795	144	202	4.2	391.0	392.0	1.0	
	L	4,095	52	113	7.6	395.4	395.9	0.5	
	M	4,480	27	85	10.2	401.4	402.4	1.0	
	N	4,810	24	106	8.1	406.3	407.2	0.9	
	O	5,123	32	90	9.6	413.0	413.4	0.4	
	P	5,446	40	108	8.0	418.3	419.2	0.9	
	Q	5,703	19	76	11.3	422.9	423.2	0.3	
	R								

¹Feet Above Confluence With San Diego River

²Elevation Computed Without Consideration of the Backwater Effect of the San Diego River

³Floodway Not Applicable

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

EUCALYPTUS HILLS CREEK (EAST BRANCH)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Eucalyptus Hills Creek (West Branch)	A	850	248	4.0	373.0	357.22	357.22	1.0	
	B	1,384	195	5.0	373.0	364.62	364.82	0.2	
	C	1,764	50	8.6	373.0	370.72	370.72	0.0	
	D-I ³								
	J	4,079	89	188	5.2	398.5	398.5	399.4	0.9
	K	4,254	93	144	6.7	400.7	400.7	400.8	0.1
	L	4,633	116	177	5.5	406.1	406.1	407.1	1.0
	M	4,953	71	141	6.9	411.4	411.4	412.3	0.9
	N	5,327	52	114	8.5	417.0	417.0	417.3	0.3
	O	5,556	135	211	4.6	420.2	420.2	421.2	1.0
	P	5,652	140	304	3.2	422.4	422.4	423.3	0.9
	Q	5,831	92	167	5.8	426.1	426.1	426.6	0.5
	R	5,944	82	160	6.0	427.9	427.9	428.5	0.6
	S	6,187	69	134	7.3	433.3	433.3	434.1	0.8
	T	6,487	71	189	5.1	439.7	439.7	440.0	0.3
	U	6,587	89	270	3.6	448.1	448.1	448.7	0.6
	V	6,927	32	118	8.2	450.8	450.8	451.7	0.9
	W	6,987	50	113	8.6	455.5	455.5	455.6	0.1
	X	7,221	65	182	5.3	465.1	465.1	465.4	0.3
	Y	7,288	75	214	4.5	466.5	466.5	467.2	0.7
	Z	7,652	38	133	7.3	478.4	478.4	478.4	0.0
	AA	8,082	41	131	7.4	496.3	496.3	496.8	0.5
	AB	8,552	40	130	7.5	519.1	519.1	519.1	0.0

¹Feet Above Confluence With San Diego River

²Elevation Computed Without Consideration of the Backwater Effect of the San Diego River

³Floodway Not Applicable

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Florida Drive Branch C D E	1,720	52	246	5.7	108.0	108.0	109.0	1.0	
	2,280	83	462	2.9	120.8	120.8	121.5	0.7	
	2,940	36	134	10.5	127.7	127.7	128.5	0.8	

¹Feet Above Confluence With Switzer Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

FLORIDA DRIVE BRANCH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Forester Creek	0	131	536	9.3	318.3	318.3	318.8	0.5
A	1,610	144	527	9.5	325.9	325.9	325.9	0.0
B	2,598	210	893	10.0	331.5	331.5	331.5	0.0
C	5,390	327	1,419	6.3	342.5	342.5	342.5	0.0
D	5,930	530	1,262	7.1	343.7	343.7	343.8	0.1
E	7,935	104	645	13.8	352.2	352.2	352.2	0.0
F	10,052	99	690	12.9	361.9	361.9	362.3	0.4
G	11,499	89	590	15.1	370.9	370.9	370.9	0.0
H	12,179	100	620	14.3	374.8	374.8	375.1	0.3
I	13,100	100	720	12.4	379.6	379.6	380.2	0.6
J	22,798	30	140	20.9	423.5	423.5	423.8	0.3
K	24,959	30	150	20.1	437.3	437.3	438.3	1.0
L	26,967	30	140	20.9	452.0	452.0	453.0	1.0
M	29,708	30	130	21.3	474.2	474.2	474.9	0.7
N	31,932	20	120	11.3	497.2	497.2	498.2	1.0
O	34,130	20	30	36.1	523.2	523.2	523.2	0.0
P	35,250	21	71	13.9	541.3	541.3	541.3	0.0
Q	35,705	19	64	15.5	548.4	548.4	548.4	0.0
R	36,177	91	182	7.3	559.8	559.8	559.8	0.0
S	36,572	63	231	6.0	565.8	565.8	566.0	0.2
T	37,112	67	186	7.6	574.0	574.0	574.1	0.1
U	37,567	80	226	6.3	581.8	581.8	582.0	0.2
V	38,047	80	190	7.5	589.5	589.5	589.8	0.3
W	38,502	49	178	7.1	597.0	597.0	598.0	1.0
X	38,887	71	186	6.8	607.2	607.2	607.6	0.4
Y	39,272	73	158	8.0	640.5	640.5	640.5	0.0
Z								

¹Feet Above Confluence With San Diego River

FLOODWAY DATA

FORESTER CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Forester Creek (Cont'd)								
AA	39,622	77	194	6.5	651.5	651.5	651.6	0.1
AB	39,750	72	358	3.5	659.4	659.4	659.4	0.0
AC	40,200	45	225	6.3	673.4	673.4	674.1	0.7
AD	40,815	51	95	7.8	684.8	684.8	684.8	0.0
AE	41,285	48	96	7.7	694.9	694.9	694.9	0.0
AF	41,655	41	88	8.4	707.8	707.8	707.9	0.1
AG	41,895	96	140	5.3	721.0	721.0	721.0	0.0
AH	42,080	38	94	7.9	723.3	723.3	723.4	0.1
AI	42,410	31	82	9.0	744.4	744.4	744.4	0.0
AJ	42,760	30	90	8.2	759.6	759.6	759.6	0.0
AK	43,020	33	83	8.9	772.5	772.5	772.5	0.0
AL	43,310	47	89	8.3	788.9	788.9	788.9	0.0
AM	43,665	40	89	8.3	832.3	832.3	832.3	0.0
AN	43,995	46	96	7.7	895.6	895.6	895.6	0.0
AO	44,305	36	87	8.5	911.1	911.1	911.1	0.0
AP	44,645	35	88	8.4	946.4	946.4	946.4	0.0
AQ	45,045	59	103	7.2	972.6	972.6	972.6	0.0
AR	45,435	35	85	8.7	1,005.1	1,005.1	1,005.1	0.0
AS	45,835	31	82	9.1	1,036.5	1,036.5	1,036.6	0.1
AT	46,285	29	78	9.5	1,076.6	1,076.6	1,076.6	0.0
AU	46,705	44	88	8.4	1,102.9	1,102.9	1,103.0	0.1
AV	47,075	41	91	8.1	1,127.2	1,127.2	1,127.8	0.6
AW	47,435	41	102	7.2	1,137.7	1,137.7	1,137.8	0.1
AX	47,710	38	85	8.7	1,151.2	1,151.2	1,151.2	0.0
AY	48,195	41	90	8.2	1,168.7	1,168.7	1,168.7	0.0
AZ	48,490	51	102	7.3	1,178.1	1,178.1	1,178.1	0.0

¹Feet Above Confluence With San Diego River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

FORESTER CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Forester Creek (Cont'd) BA BB BC BD BE BF BG	48,875	64	107	6.9	1,192.2	1,192.2	1,192.2	0.0	
	49,320	50	94	7.9	1,208.3	1,208.3	1,208.3	0.0	
	49,715	76	171	4.3	1,217.0	1,217.0	1,217.0	0.0	
	50,180	32	82	9.1	1,229.6	1,229.6	1,229.7	0.1	
	50,480	60	120	6.2	1,238.4	1,238.4	1,238.4	0.0	
	50,895	26	75	9.8	1,257.5	1,257.5	1,257.5	0.0	
	51,190	50	99	7.5	1,280.2	1,280.2	1,280.2	0.0	

¹Feet Above Confluence With San Diego River

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NGVD)	(FEET NGVD)	(FEET NGVD)	
Forester Creek-Carlton Hills Boulevard Overflow	A	790	510	7.6	324.8	324.8	325.1	0.3
	B	1,220	436	8.9	327.8	327.8	327.9	0.1
	C	1,665	559	7.0	329.9	329.9	330.5	0.6

¹Feet Above Confluence With San Diego River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

FORESTER CREEK-CARLTON HILL BOULEVARD OVERFLOW

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Garrison Creek								
A	660	21	186	6.1	68.1	68.1	68.9	0.8
B	740	66	290	3.9	68.7	68.7	69.3	0.6
C	919	103	379	3.0	69.4	69.4	70.2	0.8
D	1,313	27	143	7.9	72.7	72.7	72.7	0.0
E	1,638	28	154	7.3	77.0	77.0	77.0	0.0
F	1,991	108	184	6.1	78.9	78.9	78.9	0.0
G	2,113	89	477	2.4	80.1	80.1	80.1	0.0
H	2,780	38	348	3.3	89.8	89.8	89.8	0.0
I	3,311	38	179	6.3	93.8	93.8	93.9	0.1
J	3,631	125	873	1.3	100.0	100.0	100.0	0.0
K	4,393	220	202	5.0	102.7	102.7	102.8	0.1
L	5,138	149	244	4.1	111.9	111.9	112.2	0.3
M	5,617	164	600	1.7	119.4	119.4	119.7	0.3
N	5,822	51	181	5.5	119.5	119.5	119.7	0.2
O	6,166	163	590	1.7	126.1	126.1	126.4	0.3
P	6,421	271	219	4.6	127.2	127.2	127.3	0.1
Q	6,876	99	148	6.8	132.8	132.8	132.9	0.1

¹Feet Above Mouth

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Gopher Canyon Creek	A	1,097	1,351	5.7	150.3	150.3	150.4	0.1
	B	1,447	1,085	7.1	155.2	155.2	155.2	0.0
	C	1,922	750	10.3	161.2	161.2	161.2	0.0
	D	2,452	877	8.8	166.9	166.9	166.9	0.0
	E	3,052	746	10.3	175.1	175.1	175.8	0.7
	F	3,552	269	7.3	180.7	180.7	181.1	0.4
	G	3,902	133	6.0	185.6	185.6	185.6	0.0
	H	4,292	110	6.0	191.6	191.6	191.7	0.1
	I	4,622	156	11.3	196.6	196.6	196.6	0.0
	J	4,922	85	5.3	202.4	202.4	202.4	0.0
	K	5,172	84	5.4	207.2	207.2	207.2	0.0
	L	5,522	105	7.5	210.0	210.0	210.8	0.8
	M	6,092	75	5.1	221.2	221.2	221.2	0.0
	N	6,452	84	5.4	226.0	226.0	226.0	0.0
	O	6,892	97	6.0	231.2	231.2	231.4	0.2
	P	7,332	122	5.9	244.5	244.5	244.5	0.0
	Q	7,652	175	5.7	246.4	246.4	247.4	1.0
	R	7,862	140	7.8	251.8	251.8	251.8	0.0
	S	7,889	142	9.0	252.9	252.9	252.9	0.0
	T	8,289	58	3.6	253.0	253.0	253.0	0.0
	U	8,659	85	6.1	256.2	256.2	256.8	0.6
	V	9,099	82	4.0	259.1	259.1	259.1	0.0
	W	9,479	148	4.9	267.6	267.6	267.7	0.1
	X	9,769	147	5.3	274.8	274.8	274.9	0.1
	Y	10,219	86	4.8	280.4	280.4	280.6	0.2
	Z	10,669	127	4.5	292.2	292.2	292.2	0.0

¹Feet Above Confluence With San Luis Rey River

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	INCREASE
Gopher Canyon Creek (Cont'd)								
AA	10,969	218	620	8.2	299.2	299.2	299.2	0.0
AB	11,144	199	543	4.4	302.0	302.0	302.5	0.5
AC	11,594	269	357	6.7	325.0	325.0	325.1	0.1
AD	11,994	155	969	2.5	326.1	326.1	326.4	0.3
AE	12,544	120	277	8.6	329.9	329.9	330.0	0.1
AF	13,004	142	290	8.2	340.1	340.1	340.1	0.0
AG	13,689	144	339	7.0	357.1	357.1	357.1	0.0
AH	14,339	204	342	7.0	392.8	392.8	392.8	0.0
AI	14,934	102	317	7.5	396.4	396.4	396.5	0.1
AJ	15,264	116	287	8.3	400.7	400.7	401.2	0.5
AK	15,584	119	439	5.4	405.1	405.1	405.6	0.5
AL	16,034	65	223	10.7	413.6	413.6	413.6	0.0
AM	16,464	118	655	3.6	422.0	422.0	422.2	0.2
AN	16,944	134	285	8.4	426.2	426.2	426.2	0.0
AO	17,394	116	310	7.7	436.4	436.4	436.4	0.0
AP	17,844	76	242	9.8	442.5	442.5	442.5	0.0
AQ	18,284	90	232	10.2	450.9	450.9	450.9	0.0
AR	18,434	103	1,119	1.5	453.1	453.1	453.1	0.0
AS	18,478	103	1,121	1.5	453.2	453.2	453.2	0.0
AT	18,998	213	257	6.7	468.8	468.8	468.8	0.0
AU	19,508	93	374	4.6	476.2	476.2	477.1	0.9
AV	19,948	52	172	9.9	482.8	482.8	483.0	0.2
AW	20,208	76	287	6.0	486.0	486.0	486.8	0.8
AX	20,558	34	145	11.8	494.4	494.4	494.4	0.0
AY	20,908	49	172	10.0	503.2	503.2	503.5	0.3
AZ	21,328	113	333	5.1	512.9	512.9	513.8	0.9
BA	21,638	144	197	8.7	521.1	521.1	521.5	0.4

¹Feet Above Confluence With San Luis Rey River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

GOPHER CANYON CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Green Valley Creek	A	0	291	11.7	499.21	499.21	500.21	1.0	
	B	375	244	13.9	512.38	512.38	512.38	0.0	
	C	653	254	13.4	516.03	516.03	516.03	0.0	
	D	888	50	13.6	521.01	521.01	521.01	0.0	
	E	1,176	72	12.3	524.57	524.57	524.57	0.0	
	F	1,454	79	8.6	529.80	529.80	530.20	0.4	
	G	2,346	124	7.4	536.20	536.20	536.20	0.0	
	H	3,081	65	3.7	543.90	543.90	544.50	0.6	
	I	4,005	62	7.4	549.50	549.50	550.20	0.7	
	J	4,745	43	12.0	563.70	563.70	563.70	0.0	
	K	5,652	45	5.9	578.50	578.50	578.50	0.0	
	L	6,240	50	5.0	586.20	586.20	586.90	0.7	
	M	6,816	100	254	6.3	593.40	593.40	593.80	0.4
	N	7,704	60	240	6.7	605.50	605.50	605.90	0.4
	O	8,317	66	350	3.4	617.10	617.10	618.10	1.0
	P	9,046	45	143	8.4	627.00	627.00	627.00	0.0
	Q	9,913	31	116	10.3	654.10	654.10	654.10	0.0
	R	10,803	30	166	7.2	687.20	687.20	687.20	0.0
	S	11,400	33	112	10.7	702.10	702.10	702.10	0.0

¹Feet Above Limit of Detailed Study

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Green Valley Creek Tributary	A	357	268	1.1	589.8	589.8	590.8	1.0
	B	891	89	3.4	595.4	595.4	595.5	0.1
	C	1,908	124	1.6	614.9	614.9	615.8	0.9
	D	2,618	32	4.7	635.7	635.7	635.7	0.0
	E	3,180	26	3.8	649.1	649.1	649.1	0.0
	F	3,817	41	23	4.4	658.5	658.5	0.0

¹Feet Above Confluence With Green Valley Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 GREEN VALLEY CREEK TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Harbison Canyon Creek	0	210	599	7.8	570.3	570.3	571.0	0.7
	446	131	594	7.9	573.0	573.0	573.7	0.7
	597	95	403	11.7	574.7	574.7	574.7	0.0
	1,112	125	444	10.6	581.0	581.0	581.0	0.0
	1,526	130	522	9.0	584.9	584.9	585.1	0.2
	2,081	193	746	6.3	588.8	588.8	589.8	1.0
	2,529	102	449	10.5	594.9	594.9	595.0	0.1
	3,102	142	523	8.6	597.7	597.7	598.1	0.4
	3,593	201	503	8.9	604.6	604.6	604.9	0.3
	4,062	219	455	9.9	609.9	609.9	610.3	0.4
	4,244	195	334	11.7	611.6	611.6	612.3	0.7
	5,148	185	541	7.2	620.7	620.7	621.3	0.6
	5,565	85	364	10.7	626.5	626.5	626.6	0.1
	6,061	91	370	10.5	633.7	633.7	633.9	0.2
	6,568	65	300	12.3	642.0	642.0	642.0	0.0
	7,093	67	305	12.1	668.7	668.7	669.1	0.4
	7,637	60	274	13.5	697.0	697.0	697.0	0.0
	8,160	54	283	13.1	723.7	723.7	723.7	0.0
	8,794	73	370	10.0	749.1	749.1	749.8	0.7
	9,395	57	255	13.7	774.8	774.8	774.8	0.0
	9,909	54	259	13.5	787.1	787.1	787.1	0.0
	10,578	45	262	12.2	806.9	806.9	807.3	0.4
	10,965	23	200	16.0	812.6	812.6	812.7	0.1
	11,596	97	447	6.7	827.7	827.7	827.7	0.0
	12,611	68	294	10.2	857.1	857.1	857.1	0.0
	12,810	80	304	9.9	862.9	862.9	862.9	0.0

¹Feet Above Downstream Limit of Detailed Study

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	CROSS SECTION AREA (SQ. FEET)	AVERAGE VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Harbison Canyon Creek (Cont'd)	AA	13,079	242	12.4	871.1	871.1	871.1	0.0
	AB	13,669	234	10.7	888.1	888.1	888.6	0.5
	AC	14,295	179	14.0	906.7	906.7	907.5	0.8
	AD	14,849	272	9.2	926.5	926.5	927.5	1.0
	AE	15,446	176	11.9	947.6	947.6	947.6	0.0
	AF	16,015	176	11.9	985.6	985.6	985.6	0.0
	AG	16,584	78	233	9.0	1,038.2	1,038.2	0.0

¹Feet Above Downstream Limit of Detailed Study

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Kit Carson Park Creek	A	11,700 ¹	26,678	0.2	325.8	325.8	325.8	0.0
	B	12,680 ¹	8,390	0.5	325.8	325.8	325.8	0.0
	C	13,380 ¹	1,302	3.4	327.0	327.0	327.0	0.0
	D	13,915 ²	2,537	1.7	338.5	338.5	338.5	0.0
	E	14,305 ²	1,744	2.5	338.5	338.5	338.6	0.1
	F	14,820 ²	364	7.7	344.3	344.3	344.3	0.0
	G	15,750 ²	492	3.7	356.9	356.9	357.2	0.3
	H	16,600 ²	572	5.0	365.1	365.1	365.1	0.0
	I	17,350 ¹	574	3.3	371.9	371.9	372.0	0.1
	J	18,110 ²	208	4.96	378.9	378.9	378.9	0.0
	K	18,690 ²	246	7.99	386.2	386.2	386.6	0.4
	L	18,930 ²	462	7.15	388.8	388.8	389.0	0.2
	M	19,340 ²	648	1,006	3.6	394.9	394.9	0.0
	N	20,220 ²	529	945	3.8	404.6	404.6	0.2
O	20,610 ²	191	474	7.6	411.6	411.6	0.0	
P	20,690 ²	191	783	4.6	417.1	417.1	0.0	
Q	21,390 ²	223	847	4.3	419.1	420.1	1.0	
R	22,170 ²	70	258	10.9	429.4	429.4	0.0	
S	23,090 ²	80	483	5.8	440.9	441.4	0.5	

¹Feet Above Lake Hodges Dam
²Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

KIT CARSON PARK CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET RGVD)	WITH FLOODWAY	INCREASE
Las Chollas Creek								
D	3,810	485	4,637	1.7	19.6	19.6	19.7	0.1
M	11,260	81	730	9.7	55.5	55.5	56.1	0.6
N	12,500	65	568	8.3	64.8	64.8	64.9	0.1
W	18,640	101	447	7.8	119.3	119.3	120.2	0.9
X	19,160	156	480	7.3	122.7	122.7	123.4	0.7
Y	19,910	111	696	5.0	132.4	132.4	133.3	0.9
Z	20,400	123	700	5.0	135.6	135.6	136.5	0.9
AA	20,930	190	770	4.5	146.9	146.9	147.0	0.1
AB	21,980	40	247	14.2	157.1	157.1	157.1	0.0
AC	22,550	77	388	7.7	163.4	163.4	163.5	0.1
AD	22,900	66	264	11.4	166.5	166.5	166.5	0.0
AE	23,510	119	376	8.0	172.1	172.1	172.1	0.0
AF	24,060	94	304	9.9	180.3	180.3	181.0	0.7
AG	24,610	271	788	3.8	187.8	187.8	188.6	0.8
AH	25,010	270	1,146	2.6	199.0	199.0	199.0	0.0
AI	25,560	48	292	10.3	203.2	203.2	203.8	0.6
AJ	26,120	86	284	10.6	207.7	207.7	208.0	0.3
AK	26,460	70	360	8.3	211.5	211.5	212.4	0.9
AL	27,290	147	354	8.5	226.5	226.5	226.5	0.0
AM	27,840	83	389	7.7	233.7	233.7	234.5	0.8
AN	28,350	46	274	10.9	239.3	239.3	239.4	0.1
AO	28,660	35	213	14.1	245.9	245.9	245.9	0.0
AP	29,030	104	859	3.5	256.8	256.8	257.0	0.2
AQ	29,410	76	384	7.8	257.8	257.8	257.9	0.1
AR	29,960	106	396	7.6	264.4	264.4	264.4	0.0
AS	30,400	42	226	13.2	270.1	270.1	270.1	0.0

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LAS CHOLLAS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Home Avenue Branch	1,190 ¹	27	123	9.8	94.2	94.2	95.0	0.8	
	1,390 ¹	24	113	10.6	96.2	96.2	97.0	0.8	
	2,000 ¹	37	211	5.7	103.8	103.8	104.6	0.8	
	3,040 ¹	24	119	10.1	120.5	120.5	121.4	0.9	
	4,770 ¹	30	148	8.1	146.2	146.2	147.0	0.8	
	6,010 ¹	32	102	11.7	160.2	160.2	160.9	0.7	
	7,590 ¹	12	61	11.8	183.2	183.2	184.0	0.8	
	12,850 ¹	13	47	9.7	264.7	264.7	265.4	0.7	
	Johnson Canyon Creek	922 ²	122	290	4.0	229.2	229.2	230.2	1.0
		2,146 ²	51	126	9.1	254.0	254.0	254.0	0.0
		4,499 ²	49	112	10.3	306.8	306.8	306.8	0.0
		6,356 ²	54	133	8.6	348.7	348.7	348.7	0.0
		8,667 ²	63	106	7.9	403.9	403.9	403.9	0.0
11,441 ²		156	114	5.7	464.9	464.9	464.9	0.0	
14,027 ²		34	56	8.2	511.4	511.4	511.4	0.0	

¹Feet Above Confluence With Las Chollas Creek

²Feet Above Confluence With Otay River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

HOME AVENUE BRANCH - JOHNSON CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET/SECOND)	WITH FLOODWAY (FEET/SECOND)	INCREASE
Hatfield Creek								
A	615	450	2,174	6.3	1,459.3	1,459.3	1,459.5	0.2
B	1,414	370	1,708	8.0	1,461.0	1,461.0	1,461.9	0.9
C	1,793	500	1,876	7.3	1,462.8	1,462.8	1,463.6	0.8
D	2,556	390	1,827	7.5	1,465.3	1,465.3	1,466.1	0.8
E	3,124	450	1,550	8.8	1,468.0	1,468.0	1,468.4	0.4
F	3,577	370	1,437	9.5	1,471.6	1,471.6	1,471.8	0.2
G	4,066	570	1,842	7.4	1,474.5	1,474.5	1,475.2	0.7
H	4,461	410	817	9.6	1,476.4	1,476.4	1,476.6	0.2
I	4,921	299	1,305	10.5	1,479.9	1,479.9	1,479.9	0.0
J	5,046	255	1,884	7.3	1,481.7	1,481.7	1,481.7	0.0

¹Feet Above Confluence With Santa Maria Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 HATFIELD CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NEG. 0.0)	WITH FLOODWAY	INCREASE
Las Posas Creek (Upper) A B	3,023	230	509	3.6	566.0	566.0	566.0	0.0
	3,678	230	164	11.3	569.6	569.6	569.6	0.0

1 Feet Above Grand Avenue

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LAS POSAS CREEK (UPPER)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Lawson Valley Creek								
A	7,200	101	782	11.5	1,572.3	1,572.3	1,573.3	1.0
B	8,050	78	591	15.2	1,583.0	1,583.0	1,583.0	0.0
C	8,330	98	649	13.9	1,588.5	1,588.5	1,588.5	0.0
D	8,385	98	1,032	8.7	1,592.9	1,592.9	1,592.9	0.0
E	9,125	85	618	14.6	1,606.4	1,606.4	1,606.4	0.0
F	9,525	70	561	16.0	1,613.8	1,613.8	1,613.8	0.0
G	10,254	89	610	14.8	1,626.6	1,626.6	1,626.7	0.1
H	10,631	130	994	9.1	1,634.6	1,634.6	1,634.6	0.0
I	10,696	142	1,225	7.3	1,636.8	1,636.8	1,636.8	0.0
J	10,951	195	1,170	7.7	1,640.1	1,640.1	1,640.1	0.0
K	10,986	141	1,313	6.9	1,641.8	1,641.8	1,641.8	0.0
L	11,444	159	794	11.3	1,645.5	1,645.5	1,645.5	0.0
M	11,814	87	621	14.5	1,648.6	1,648.6	1,648.6	0.0
N	12,184	91	951	9.5	1,660.9	1,660.9	1,660.9	0.0
O	12,289	87	1,157	7.8	1,661.6	1,661.6	1,661.6	0.0
P	12,699	143	799	11.3	1,663.0	1,663.0	1,663.0	0.0
Q	13,443	85	648	13.9	1,687.0	1,687.0	1,687.0	0.0
R	14,264	81	889	10.1	1,747.7	1,747.7	1,747.7	0.0
S	14,308	84	1,067	8.4	1,752.7	1,752.7	1,752.7	0.0
T	15,144	82	529	13.6	1,764.2	1,764.2	1,764.2	0.0
U	15,894	60	466	15.4	1,771.8	1,771.8	1,771.8	0.0
V	16,304	70	502	14.3	1,782.6	1,782.6	1,782.6	0.0
W	17,077	78	525	13.6	1,818.4	1,818.4	1,818.4	0.0
X	17,878	85	539	13.3	1,861.2	1,861.2	1,861.2	0.0
Y	18,602	101	594	12.1	1,914.2	1,914.2	1,914.2	0.0
Z	18,962	102	597	12.0	1,921.9	1,921.9	1,921.9	0.0

¹Feet Above Confluence With Sweetwater River

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
AAA	19,278	258	951	7.5	1,940.5	1,940.5	1,940.6	0.1
AB	19,351	254	1,019	7.0	1,943.6	1,943.6	1,943.6	0.0
AC	19,959	236	1,079	6.6	1,948.9	1,948.9	1,949.7	0.8
AD	20,849	317	907	7.9	1,959.6	1,959.6	1,959.8	0.2

¹Feet Above Confluence With Sweetwater River

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LAWSON VALLEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET ABOVE)	WITH FLOODWAY (FEET ABOVE)	INCREASE	
Loma Alta Creek	A	0	1,297	2.9	12.0	12.0	13.0	1.0	
	B	440	2,605	1.5	12.5	12.5	13.4	0.9	
	C	520	2,174	1.7	12.5	12.5	13.4	0.9	
	D	1,260	1,794	2.1	12.6	12.6	13.6	1.0	
	E	1,370	1,917	2.0	12.8	12.8	13.7	0.9	
	F	1,930	634	6.0	12.8	12.8	13.7	0.9	
	G	2,300	639	5.9	13.3	13.3	13.9	0.6	
	H	3,155	922	4.1	15.7	15.7	16.1	0.4	
	I	3,200	341	3.5	16.0	16.0	16.3	0.3	
	J	3,865	337	4.0	16.6	16.6	16.8	0.2	
	K	4,150	565	2.8	17.0	17.0	17.2	0.2	
	L	4,595	696	3.8	19.9	19.9	19.9	0.0	
	M	4,610	696	1,353	2.8	20.5	20.5	20.5	0.0
	N	4,845	675	908	4.2	21.1	21.1	21.1	0.0
	O	5,160	708	3,109	1.2	22.0	22.0	22.0	0.0
	P	5,420	755 ²	648	5.9	22.7	22.7	22.7	0.0
	Q	5,537	770 ²	566	6.7	23.3	23.3	23.3	0.0
	R	6,275	800	1,562	2.4	25.8	25.8	26.2	0.4
	S	6,325	800	1,702	2.2	25.9	25.9	26.3	0.4
	T	6,775	543 ²	976	3.9	26.2	26.2	26.8	0.6
	U	7,520	125	441	8.6	29.2	29.2	30.2	1.0
	V	8,090	463	1,599	2.4	31.8	31.8	32.6	0.8
	W	8,140	495	1,177	3.2	31.9	31.9	32.6	0.7
	X	8,180	537 ²	511	7.4	33.5	33.5	33.5	0.0
	Y	8,520	306 ²	798	4.8	36.6	36.6	37.1	0.5
	Z	8,620	240	918	4.1	38.0	38.0	38.0	0.0

¹Feet Above Pacific Street ²Width Includes Islands

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

LOMA ALTA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	INSTANT	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET ABOVE)	WITH FLOODWAY	INCREASE
Loma Alta Creek (Cont'd)	8,825	159	518	7.3	38.2	38.2	38.5	0.3
	9,443	414	1,179	3.2	40.2	40.2	41.2	1.0
	10,160	314	626	6.1	44.5	44.5	44.5	0.0
	10,960	140	618	6.1	49.2	49.2	49.5	0.3
	11,465	112	457	8.3	51.7	51.7	52.1	0.4
	11,970	288	747	5.1	55.5	55.5	55.9	0.4
	12,500	319	832	4.3	57.6	57.6	57.9	0.3
	12,810	285	546	7.0	59.4	59.4	60.2	0.8
	13,300	277	939	4.0	62.5	62.5	63.3	0.8
	13,830	224	827	2.7	63.9	63.9	64.4	0.5
	14,460	60	213	10.3	66.5	66.5	66.8	0.3
	15,120	246	578	3.8	72.5	72.5	73.0	0.5
	15,510	110	255	8.6	75.7	75.7	76.2	0.5
	15,690	279	528	4.2	79.6	79.6	80.1	0.5
	16,050	84	265	8.3	82.3	82.3	82.3	0.0
	16,742	68	230	9.6	89.9	89.9	90.5	0.6
	17,175	54	221	10.0	95.3	95.3	96.3	1.0
	17,740	268 ²	378	5.8	102.6	102.6	102.9	0.3
	17,780	327 ²	338	6.5	104.7	104.7	104.8	0.1
	17,835	267	957	2.3	105.5	105.5	105.5	0.0
17,995	140 ²	700	3.2	108.2	108.2	108.2	0.0	
18,075	138 ²	699	3.1	110.7	110.7	110.7	0.0	
18,540	84	231	9.5	111.0	111.0	111.0	0.0	
18,610	49	194	11.4	112.3	112.3	112.4	0.1	
18,780	161 ²	473	4.7	114.7	114.7	115.7	1.0	
18,960	172 ²	291	7.6	116.4	116.4	116.5	0.1	

¹Feet Above Pacific Street

²Width Includes Islands

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

LOMA ALTA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Loma Alta Creek (Cont'd)								
BA	19,345	74	230	9.6	120.3	120.3	120.7	0.4
BB	19,438	68	213	10.3	121.1	121.1	121.8	0.7
BC	19,577	55	202	10.9	123.5	123.5	124.2	0.7
BD	19,635	62	218	10.1	125.9	125.9	126.7	0.8
BE	20,140	127	402	5.5	130.6	130.6	131.2	0.6
BF	20,202	89	235	9.4	131.1	131.1	131.2	0.1
BG	20,445	96	299	7.4	134.4	134.4	134.4	0.0
BH	21,090	62	239	9.2	139.8	139.8	140.5	0.7
BI	21,680	77	253	8.7	145.1	145.1	145.3	0.2
BJ	22,000	297	730	2.3	146.7	146.7	147.5	0.8
BK	22,660	210	263	6.5	149.9	149.9	149.9	0.0
BL	23,440	131	314	5.4	157.1	157.1	157.9	0.8
BM	24,140	211	300	5.7	164.0	164.0	164.0	0.0
BN	24,590	96	303	5.6	167.2	167.2	167.6	0.4
BO	24,840	200	314	5.4	169.2	169.2	169.5	0.3
BP	25,370	259	333	5.1	175.8	175.8	175.8	0.0
BQ	25,510	85	196	8.7	177.5	177.5	178.1	0.6
BR	25,910	108	312	5.5	181.5	181.5	182.5	1.0
BS	26,642	79	190	8.9	191.0	191.0	191.0	0.0
BT	27,280	66	209	8.1	199.3	199.3	199.8	0.5
BU	27,370	146	303	5.6	200.6	200.6	201.0	0.4
BV	28,020	100	199	8.5	207.9	207.9	208.4	0.5
BW	28,990	209	328	5.2	217.9	217.9	218.9	1.0
BX	29,525	80	196	8.7	224.6	224.6	225.4	0.8
BY	29,955	54	212	8.0	228.8	228.8	229.8	1.0
BZ	30,060	151	569	3.0	230.9	230.9	231.9	1.0

¹feet Above Pacific Street

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	
Loma Alta Creek (Cont'd)								
CA	30,490	280	283	6.0	234.3	234.3	234.4	0.1
CB	31,375	71	186	9.1	247.4	247.4	248.2	0.8
CC	31,825	149	297	5.7	253.1	253.1	253.9	0.8
CD	32,270	380	467	3.6	257.5	257.5	257.5	0.0
CE	32,665	138	280	6.1	260.6	260.6	260.6	0.0
CF	33,305	99	205	8.3	270.3	270.3	271.2	0.9
CG	34,151	50	174	9.8	282.8	282.8	283.5	0.7
CH	34,680	103	208	8.2	291.2	291.2	291.2	0.0
CI	35,275	132	266	6.4	300.3	300.3	300.4	0.1
CJ	35,820	118	219	7.8	307.9	307.9	308.2	0.3
CK	36,270	121	300	5.7	313.4	313.4	313.6	0.2
CL	36,910	81	192	8.9	326.9	326.9	326.9	0.0

1Feet Above Pacific Street

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
Los Penasquitos Creek	A	1,470	1,582	10.6	34.7	34.52	35.52	1.0	
	B	1,920	3,748	4.5	37.4	37.4	38.1	0.7	
	C	2,250	4,449	3.8	37.4	37.4	38.4	1.0	
	D	2,430	2,863	5.9	37.4	37.4	38.4	1.0	
	E	2,874	2,155	7.8	37.6	37.6	38.5	0.9	
	F	3,204	2,372	7.1	38.4	38.4	39.1	0.7	
	G	3,604	2,475	6.8	39.0	39.0	39.6	0.6	
	H	4,264	1,660	10.1	39.6	39.6	40.1	0.5	
	I	5,470	2,049	8.2	42.7	42.7	43.2	0.5	
	J	5,830	2,569	6.5	43.6	43.6	44.6	1.0	
	K	6,208	2,418	6.9	44.9	44.9	45.2	0.3	
	L	6,840	1,937	8.7	46.3	46.3	46.8	0.5	
	M	7,292	2,497	6.7	47.9	47.9	48.9	1.0	
	N	7,708	550	7.1	49.0	49.0	49.6	0.6	
	O	8,274	304	11.8	51.2	51.2	51.5	0.3	
	P	8,904	540	2,555	6.6	54.5	54.5	55.0	0.5
	Q	9,424	500	2,130	7.9	55.7	55.7	55.9	0.2
	R	10,114	239	1,272	13.2	57.5	57.5	57.7	0.2
	S	10,440	230	1,650	10.2	59.4	59.4	60.2	0.8
	T	10,924	400	2,838	5.9	60.9	60.9	61.9	1.0
	U	11,444	371	2,147	7.8	61.3	61.3	62.1	0.8
	V	11,904	466	2,895	5.8	62.6	62.6	63.3	0.7
	W	12,474	258	1,312	12.8	64.4	64.4	64.8	0.4
	X	13,154	229	1,307	12.9	71.2	71.2	71.2	0.0
	Y	13,310	100	956	17.6	71.8	71.8	71.8	0.0
	Z	13,420	89	925	18.2	73.8	73.8	73.8	0.0

¹Feet Above Mouth

²Elevation Computed Without Consideration of Influence From Soledad Canyon

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	
Los Penasquitos Creek (Cont'd)								
CA	30,057	465	2,145	7.8	210.9	210.9	211.5	0.6
CB	30,183	539	3,483	4.8	212.3	212.3	212.9	0.6
CC	30,353	631	3,417	4.9	212.8	212.8	213.4	0.6
CD	30,643	548	2,799	6.0	213.7	213.7	214.2	0.5
CE	30,943	462	2,087	8.0	214.8	214.8	215.3	0.5
CF	31,249	477	3,271	5.1	217.2	217.2	217.8	0.6
CG	31,545	623	3,205	5.2	218.3	218.3	218.8	0.5
CH	31,855	593	3,522	4.8	219.9	219.9	220.0	0.1
CI	32,149	636	1,993	8.4	222.0	222.0	222.2	0.2
CJ	32,623	359	2,208	7.6	226.1	226.1	226.1	0.0
CK	32,769	357	2,524	6.7	226.6	226.6	227.0	0.4
CL	33,032	391	2,507	6.7	227.3	227.3	228.1	0.8
CM	33,296	391	1,545	10.9	229.3	229.3	229.5	0.2
CN	33,642	497	3,505	4.8	231.5	231.5	232.3	0.8
CO	34,172	636	1,909	8.8	232.8	232.8	233.2	0.4
CP	34,528	814	2,798	6.0	235.7	235.7	236.3	0.6
CQ	34,818	823	2,847	5.9	236.9	236.9	237.4	0.5
CR	35,146	889	3,361	5.0	238.0	238.0	238.6	0.6
CS	35,456	499	1,646	10.2	239.0	239.0	239.2	0.2
CT	35,728	763	3,109	5.4	241.1	241.1	242.0	0.9
CU	35,998	652	2,609	6.4	242.2	242.2	242.8	0.6
CV	36,230	515	1,986	8.5	243.0	243.0	243.5	0.5
CW	36,534	334	1,509	11.1	245.3	245.3	245.7	0.4
CX	36,838	473	2,434	6.9	248.2	248.2	248.9	0.7
CY	37,388	472	2,748	6.1	250.1	250.1	250.6	0.5
CZ	37,696	266	1,348	12.5	252.9	252.9	253.2	0.3

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
Los Penasquitos Creek (Cont'd)									
DA	38,216	141	1,146	14.7	257.4	257.4	257.8	0.4	
DB	38,716	119	1,053	16.0	261.9	261.9	262.0	0.1	
DC	39,216	189	1,556	10.8	267.6	267.6	267.6	0.0	
DL	39,807	97	940	17.9	270.0	270.0	270.1	0.1	
DE	40,237	138	1,542	10.9	275.4	275.4	276.0	0.6	
DF	40,667	222	1,506	11.2	277.5	277.5	278.0	0.5	
DG	40,841	153	1,118	15.0	279.6	279.6	279.9	0.3	
LH	41,105	112	991	17.0	283.0	283.0	283.0	0.0	
DI	41,855	162	1,729	9.7	289.4	289.4	290.4	1.0	
DJ	42,359	116	1,019	16.5	293.5	293.5	293.6	0.1	
DK	42,913	187	1,678	10.0	299.2	299.2	300.2	1.0	
DL	43,293	121	1,137	14.8	301.0	301.0	301.9	0.9	
DM	43,845	83	943	17.8	308.8	308.8	308.8	0.0	
DN	44,475	132	1,698	9.1	315.7	315.7	316.7	1.0	
DO	44,835	245	2,427	6.3	317.6	317.6	318.4	0.8	
DP	45,315	231	1,506	10.2	319.3	319.3	319.8	0.5	
DQ	45,745	177	1,343	11.5	321.7	321.7	322.3	0.6	
DR	46,000	149	1,410	10.9	323.2	323.2	324.0	0.8	
DS	46,300	156	1,327	11.6	324.6	324.6	325.2	0.6	
DT	46,475	169	1,510	10.2	326.5	326.5	327.1	0.6	
DU	46,715	118	1,032	14.9	328.2	328.2	328.2	0.0	
DV	47,115	79	895	17.2	334.3	334.3	334.3	0.0	
DW	47,555	92	1,230	12.5	339.5	339.5	340.5	1.0	
DX	47,765	75	856	18.0	341.0	341.0	341.1	0.1	
DY	48,020	107	1,148	12.2	345.5	345.5	345.5	0.0	
DZ	48,242	274	3,247	4.3	353.3	353.3	353.3	0.0	

¹Feet Above Mouth

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE 1	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (Cont'd)								
AA	13,590	360	5,583	3.0	79.4	79.4	79.4	0.0
AB	14,094	440	6,353	2.6	79.5	79.5	79.5	0.0
AC	14,392	469	5,824	2.9	79.5	79.5	79.5	0.0
AD	15,206	426	4,100	4.1	79.6	79.6	79.6	0.0
AE	15,836	539	4,036	4.2	79.8	79.8	79.9	0.1
AF	16,595	503	1,716	9.8	80.6	80.6	80.6	0.0
AG	16,835	740	2,017	8.3	81.9	81.9	81.9	0.0
AH	17,145	331	1,738	9.7	83.4	83.4	83.4	0.0
AI	17,495	201	1,196	14.0	84.4	84.4	84.9	0.5
AJ	17,811	158	1,286	13.1	86.6	86.6	87.6	1.0
AK	18,241	94	940	17.9	90.5	90.5	91.4	0.9
AL	18,706	130	1,080	15.6	103.2	103.2	103.9	0.7
AM	19,150	89	943	17.8	106.9	106.9	107.8	0.9
AN	19,514	137	1,099	15.3	110.9	110.9	111.5	0.6
AO	19,858	125	1,056	15.9	116.6	116.6	116.6	0.0
AP	20,018	138	1,053	16.0	119.6	119.6	119.6	0.0
AQ	20,234	75	871	19.3	140.9	140.9	140.9	0.0
AR	20,378	140	1,106	15.2	151.7	151.7	151.7	0.0
AS	20,544	330	2,087	8.0	155.4	155.4	155.4	0.0
AT	20,824	588	1,957	8.6	156.3	156.3	156.3	0.0
AU	21,050	510	2,393	7.0	158.5	158.5	158.5	0.0
AV	21,214	537	2,734	6.1	159.3	159.3	160.1	0.8
AW	21,480	619	3,092	5.4	160.7	160.7	161.4	0.7
AX	21,806	319	1,851	9.1	161.7	161.7	162.1	0.4
AY	22,091	529	2,075	8.1	163.7	163.7	163.7	0.0
AZ	22,401	615	3,537	4.8	166.5	166.5	166.6	0.1

1 Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
Los Penasquitos Creek (Cont'd)	BA	22,744	3,144	5.3	167.2	167.2	167.3	0.1	
	BB	23,030	2,139	7.9	168.1	168.1	168.1	0.0	
	BC	23,373	477	8.1	170.0	170.0	170.6	0.6	
	BD	23,717	514	5.5	172.5	172.5	173.0	0.5	
	BE	24,041	380	8.8	174.0	174.0	174.7	0.7	
	BF	24,327	388	7.5	177.5	177.5	178.0	0.5	
	BG	24,463	465	6.6	178.3	178.3	178.8	0.5	
	BH	24,630	490	2,869	5.9	179.1	179.7	0.6	
	BI	24,916	340	1,798	9.3	180.2	180.6	0.4	
	BJ	25,242	527	2,438	6.9	183.8	184.4	0.6	
	BK	25,552	737	3,278	5.1	186.3	186.9	0.6	
	BL	25,852	716	2,768	6.1	188.2	188.7	0.5	
	BM	26,162	701	3,730	4.5	190.2	190.8	0.6	
	BN	26,452	587	4,037	4.2	191.0	191.6	0.6	
	BO	26,768	502	2,564	6.6	191.9	192.5	0.6	
	BP	27,054	505	2,853	5.9	193.9	194.5	0.6	
	BQ	27,220	472	2,527	6.6	194.9	195.5	0.6	
	BR	27,360	597	3,687	4.6	195.8	196.5	0.7	
	BS	27,643	488	1,833	9.2	199.3	199.7	0.4	
	BT	27,957	539	3,133	5.4	202.5	203.2	0.7	
	BU	28,261	573	4,178	4.0	203.5	204.2	0.7	
	BV	28,551	583	4,004	4.2	203.9	204.6	0.7	
	BW	28,551	565	3,317	5.1	204.3	205.0	0.7	
	BX	29,155	346	1,489	11.3	205.5	205.9	0.4	
	BY	29,451	559	3,367	5.0	208.4	209.3	0.9	
	BZ	29,767	461	2,919	5.8	209.5	210.2	0.7	

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER-SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
						(FEET NGVD)			
Mexican Canyon Creek									
A	1,143	137	338	6.7	375.5	375.5	375.5	0.0	
B	2,583	41	186	12.1	401.8	401.8	401.8	0.0	
C	3,326	132	282	9.2	413.8	413.8	413.8	0.0	
D	4,826	99	249	9.1	448.3	448.3	448.3	0.0	
E	6,150	30	134	12.4	469.7	469.7	469.7	0.0	
F	6,926	57	348	3.2	491.5	491.5	491.5	0.0	
G	8,460	63	139	8.1	535.6	535.6	535.7	0.1	
H	9,576	81	141	7.9	575.4	575.4	575.4	0.0	
I	9,722	45	178	6.3	583.8	583.8	584.4	0.6	

¹Feet Above Confluence with Sweetwater River

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FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

MEXICAN CANYON CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Moosa Creek	0	96	643	4.9	1,409.2	1,409.2	1,409.2	0.7	
	26	103	492	6.3	1,409.9	1,409.9	1,409.9	0.0	
	266	102	443	7.0	1,415.8	1,415.8	1,416.8	1.0	
	676	80	287	10.9	1,433.4	1,433.4	1,433.4	0.0	
	1,036	93	4.1	7.8	1,450.0	1,450.0	1,450.4	0.4	
	1,436	66	443	7.1	1,456.0	1,456.0	1,456.5	0.5	
	1,626	94	363	8.6	1,458.8	1,458.8	1,459.1	0.3	
	1,686	132	750	4.2	1,463.0	1,463.0	1,463.0	0.0	
	1,966	134	478	6.5	1,465.5	1,465.5	1,465.8	0.3	
	2,181	122	608	5.1	1,469.6	1,469.6	1,470.6	1.0	
	2,491	156	455	6.9	1,479.0	1,479.0	1,479.1	0.1	
	2,641	115	460	6.8	1,485.7	1,485.7	1,486.1	0.4	
	2,681	134	605	5.2	1,491.5	1,491.5	1,491.5	0.0	
	2,911	115	531	5.9	1,495.0	1,495.0	1,495.8	0.8	
	3,221	86	562	5.6	1,498.1	1,498.1	1,499.0	0.9	
	3,741	51	321	9.7	1,505.0	1,505.0	1,506.0	1.0	
	4,236	110	632	4.9	1,518.6	1,518.6	1,519.5	0.9	
	4,296	114	689	4.5	1,520.2	1,520.2	1,520.2	0.0	
	4,676	110	440	7.1	1,522.8	1,522.8	1,523.1	0.3	
	5,156	118	488	6.4	1,529.5	1,529.5	1,530.5	1.0	
	5,591	58	288	8.3	1,534.9	1,534.9	1,535.8	0.9	
	5,961	61	219	10.9	1,545.6	1,545.6	1,545.6	0.0	
	6,341	73	237	10.0	1,555.7	1,555.7	1,555.9	0.2	
	6,371	80	378	6.3	1,560.0	1,560.0	1,560.1	0.1	
	6,411	85	441	5.4	1,563.1	1,563.1	1,563.1	0.0	
	6,791	122	360	6.6	1,564.5	1,564.5	1,565.1	0.6	

¹Feet Above Unnamed Road

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Los Penasquitos Creek (Cont'd)	EA	48,609	3,528	4.0	353.4	353.4	353.4	0.0
	EB	49,008	2,772	5.0	353.5	353.5	353.5	0.0
	EC	49,288	2,513	5.6	353.6	353.6	353.6	0.0
	ED	49,635	2,553	5.5	354.0	354.0	354.0	0.0
	EE	49,842	1,990	7.0	354.4	354.4	354.4	0.0
	EF	50,709	3,009	4.7	356.4	356.4	356.4	0.0
	EG	51,278	2,110	6.6	365.3	365.3	365.3	0.0
	EH	51,637	2,673	5.2	367.1	367.1	367.1	0.0
	EI	52,272	3,376	4.1	368.3	368.3	368.3	0.0
	EJ	52,641	2,408	5.8	369.0	369.0	369.0	0.0
	EK	53,096	883	15.9	372.7	372.7	372.7	0.0
	EL	53,310	2,181	6.4	377.2	377.2	377.2	0.0
	EM	55,543	1,366	10.2	395.7	395.7	395.7	0.0
	EN	56,039	1,477	19.5	398.5	398.5	398.5	0.0
	EO	56,452	1,354	10.3	401.0	401.0	401.0	0.0
	EP	56,930	94	897	15.6	403.9	403.9	404.1

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

LOS PENASQUITOS CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Lusardi Creek								
A	0.0	95	443	8.4	49.4	49.4	50.4	1.0
B	566	31	295	12.7	57.4	57.4	57.7	0.3
C	1,026	113	896	4.2	67.2	67.2	67.8	0.6
D	1,682	98	653	5.7	75.0	75.0	75.6	0.6
E	2,278	61	397	9.4	83.0	83.0	83.8	0.8
F	2,964	73	604	6.2	90.0	90.0	90.8	0.8
G	3,610	37	341	11.0	99.5	99.5	100.3	0.8
H	4,272	44	371	10.1	109.9	109.9	110.5	0.6
I	4,974	59	413	9.1	124.5	124.5	125.4	0.9
J	5,486	47	430	8.7	133.5	133.5	133.8	0.3

¹Feet Upstream From the Confluence With the San Dieguito River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

LUSARDI CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Moosa Creek (Cont'd)	AA	7,136	310	7.7	1,572.2	1,572.2	1,572.4	0.2
	AB	7,166	756	3.1	1,575.4	1,575.4	1,576.1	0.7
	AC	7,556	819	2.9	1,575.8	1,575.8	1,576.6	0.8
	AD	7,936	455	5.2	1,580.6	1,580.6	1,580.7	0.1
	AE	8,406	584	4.1	1,593.0	1,593.0	1,593.0	0.0
	AF	8,438	776	3.1	1,595.8	1,595.8	1,595.8	0.0
	AG	8,818	379	6.3	1,598.7	1,598.7	1,598.8	0.1
	AH	9,398	18	1.4	1,610.6	1,610.6	1,610.7	0.1
	AI	9,718	13	1.9	1,615.1	1,615.1	1,615.1	0.0
	AJ	10,268	7	2.2	1,620.5	1,620.5	1,620.6	0.1
	AK	10,857	201	4.8	1,632.4	1,632.4	1,632.4	0.0
	AL	10,867	205	2.6	1,632.5	1,632.5	1,632.6	0.1
	AM	11,367	300	3.1	1,637.2	1,637.2	1,638.1	0.9
	AN	11,997	80	7.0	1,647.8	1,647.8	1,648.5	0.7
	AO	12,317	141	4.0	1,656.6	1,656.6	1,656.6	0.0
	AP	12,352	121	4.8	1,657.6	1,657.6	1,657.6	0.0

¹Feet Above Unnamed Road

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

MOOSA CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Moosa Creek (South Branch)	A	555	409	5.8	1,608.8	1,608.8	1,609.3	0.5
	B	845	386	3.4	1,611.8	1,611.8	1,612.3	0.5
	C	1,360	194	6.8	1,618.3	1,618.3	1,618.7	0.4
	D	1,924	275	4.8	1,627.7	1,627.7	1,627.8	0.1
	E	1,934	280	3.3	1,628.1	1,628.1	1,628.3	0.2

¹Feet Above Unnamed Road

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Murphy Canyon Creek	A	2,961	271	10.7	93.3	93.3	93.3	0.0
	B	4,544	216	12.0	112.8	112.8	112.8	0.0
	C	6,088	240	10.4	116.8	116.8	116.8	0.0
	D	6,460	211	11.4	118.1	118.1	118.1	0.0
	E	7,308	80	10.1	124.1	124.1	124.1	0.0
	F	9,222	77	1,021	2.9	160.4	160.4	0.0
	G	10,936	111	272	9.0	171.9	171.9	0.0
	H	11,376	191	310	7.7	176.9	176.9	0.0
	I	11,674	132	182	3.8	178.7	178.7	0.0
	J	12,064	13	132	18.2	185.1	185.1	0.0
	K	13,546	86	373	4.6	208.1	208.1	0.0
	L	14,992	42	140	12.1	221.7	221.7	0.0
	M	15,262	34	96	10.4	228.4	228.4	0.0
	N	16,388	39	95	10.5	244.2	244.2	0.0
	O	16,719	42	182	5.5	251.0	251.0	0.0

¹Feet Above Friars Road

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 MURPHY CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Nestor Creek	A	2,000	262	4.2	12.9	12.12	12.22	0.1
	B	3,000	637	1.7	13.4	12.72	13.42	0.7
	C	3,988	230	4.7	14.0	12.72	13.42	0.7
	D	5,772	482	1.8	16.8	16.8	17.1	0.3
	E	7,500	479	1.7	17.2	17.2	17.7	0.5
	F	8,000	100	1.8	17.2	17.2	17.8	0.6
	G	8,310	50	2.4	17.7	17.7	18.2	0.5
	H	8,760	64	2.8	18.1	18.1	18.5	0.4
	I	9,400	39	6.3	20.7	20.7	20.7	0.0
	J	9,700	127	0.9	25.8	25.8	25.8	0.0
	K	10,180	21	2.8	25.8	25.8	25.8	0.0
	L	10,300	80	1.2	26.2	26.2	26.2	0.0
	M	10,500	110	1.2	26.2	26.2	26.2	0.0

¹Feet Above Confluence With Otay River
²Elevation Computed Without Consideration of Influence from Otay River

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE (FEET)	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULAR FLOOD ELEVATION (FEET)	WATER SURFACE ELEVATION (FEET)	DEPTH (FEET)
North Branch Poway Creek	A	500	245	1.6	552.7	553.0	0.3
	B	1,285	143	4.0	555.4	556.0	0.6
	C	2,150	589	4.0	561.9	562.6	0.7
	D	3,255	349	8.6	573.8	574.2	0.4
	E	3,955	298	10.1	581.4	581.7	0.3

1 Feet Above Confluence With Poway Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

NORTH BRANCH POWAY CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
North Tributary to Santa Maria Creek	A	1,490	3,838	0.3	1,371.2	1,371.2	1,372.0	0.8	
	B	2,040	1,070	1.0	1,371.2	1,371.2	1,372.0	0.8	
	C	2,780	680	1.6	1,371.3	1,371.3	1,372.3	1.0	
	D	2,890	1,154	1.0	1,373.3	1,373.3	1,374.2	0.9	
	E	3,170	466	2.4	1,373.3	1,373.3	1,374.3	1.0	
	F	3,920	376	2.9	1,376.9	1,376.9	1,377.9	1.0	

¹Feet Above Confluence With Santa Maria Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Olive Creek	455	132	232	5.9	699.3	697.4 ²	698.4 ²	1.0
A	605	171	254	5.4	699.8	699.8	700.2	0.4
B	828	256	314	4.4	702.1	702.1	702.8	0.7
C	1,078	135	207	6.6	706.3	706.3	706.4	0.1
D	1,232	163	232	5.9	708.7	708.7	708.7	0.0
E	1,692	170	238	5.8	713.7	713.7	714.2	0.5
F	2,237	180	235	5.8	723.8	723.8	724.4	0.6
G	2,627	238	282	4.8	730.3	730.3	731.1	0.8
H	2,892	243	292	4.7	737.7	737.7	737.8	0.1
I								

¹Feet Above Confluence With Twin Oaks Valley Creek

²Elevation Computed Without Consideration of Backwater Effects From Twin Oaks Valley Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

OLIVE CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
0tay River	0	2,533	4,688	4.7	11.0	11.0	11.0	0.0
A	1,390	2,110	9,474	2.3	13.0	13.0	13.9	0.9
B	2,490	2,300	4,084	5.4	14.1	14.1	14.6	0.5
C	3,720	1,762	7,917	2.8	16.0	16.0	16.7	0.7
D	4,040	642	1,928	11.4	17.1	17.1	17.2	0.1
E	4,270	722	3,819	5.8	18.4	18.4	18.4	0.0
F	5,100	641	2,883	7.6	21.8	21.8	21.8	0.0
G	5,350	360	1,767	12.4	23.5	23.5	23.5	0.0
H	5,390	320	2,711	8.1	25.8	25.8	25.8	0.0
I	5,500	304	2,359	9.3	26.7	26.7	26.7	0.0
J	5,600	440	4,010	5.5	28.6	28.6	28.6	0.0
K	5,880	740	4,511	4.9	28.6	28.6	28.7	0.1
L	6,280	1,020	7,451	2.9	28.7	28.7	29.3	0.6
M	6,610	1,225	7,933	2.8	28.7	28.7	29.5	0.8
N	7,012	1,243	4,824	4.6	30.6	30.6	30.7	0.1
O	7,330	1,035	3,833	5.7	31.1	31.1	31.6	0.5
P	7,670	1,204	6,208	3.5	32.1	32.1	33.1	1.0
Q	8,780	451	3,132	7.0	34.2	34.2	35.1	0.9
R	8,875	432	2,553	8.6	34.4	34.4	35.4	1.0
S	9,525	1,060	7,231	3.0	37.5	37.5	37.7	0.2
T	10,375	1,110	9,424	2.3	37.9	37.9	38.1	0.2
U	11,275	935	8,841	2.5	38.1	38.1	38.3	0.2
V	11,825	917	8,300	2.6	38.1	38.1	38.4	0.3
W	12,085	670	6,494	3.4	38.2	38.2	38.5	0.3
X	12,395	403	1,798	12.2	40.7	40.7	40.7	0.0
Y	12,579	476	3,279	6.8	43.2	43.2	43.2	0.0
Z								

1Feet Above Cross Section A

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Otay River (Cont'd)								
AA	12,959	540	4,145	5.3	43.5	43.5	43.8	0.3
AB	13,789	503	3,304	6.7	44.0	44.0	45.0	1.0
AC	14,839	675	4,992	4.4	46.2	46.2	46.8	0.6
AD	15,349	455	1,940	11.3	46.8	46.8	46.8	0.0
AE	16,049	455	2,241	9.8	52.7	52.7	53.4	0.7
AF	16,249	462	3,144	7.0	55.1	55.1	55.1	0.0
AG	16,529	447	3,490	6.3	55.7	55.7	55.8	0.1
AH	16,769	446	2,434	9.0	56.0	56.0	56.1	0.1
AI	16,979	415	2,063	10.7	56.9	56.9	57.1	0.2
AJ	17,149	382	2,053	10.7	59.0	59.0	59.0	0.0
AK	17,669	442	2,432	9.0	61.6	61.6	62.6	1.0
AL	18,109	430	1,969	11.2	66.0	66.0	66.6	0.6
AM	18,969	595	2,383	9.2	74.4	74.4	75.2	0.8
AN	19,039	586	3,840	5.7	75.4	75.4	76.3	0.9
AO	19,259	610	3,518	6.2	76.0	76.0	76.6	0.6
AP	19,349	572	2,298	9.6	76.0	76.0	76.6	0.6
AQ	19,704	442	2,695	8.2	79.2	79.2	79.2	0.0
AR	20,174	448	3,705	5.9	81.0	81.0	81.0	0.0
AS	20,674	381	2,873	7.7	81.7	81.7	81.8	0.1
AT	21,119	466	3,962	5.5	87.6	87.6	87.6	0.0
AU	21,469	690	2,565	8.6	88.0	88.0	88.0	0.0
AV	22,539	555	3,935	5.6	91.6	91.6	91.8	0.2
AW	23,424	504	2,125	10.3	102.5	102.5	102.5	0.0
AX	23,969	635	6,358	3.4	104.7	104.7	104.7	0.0
AY	24,339	600	5,029	4.4	104.8	104.8	104.9	0.1
AZ	25,319	514	2,051	10.7	108.5	108.5	109.0	0.5

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

OTAY RIVER

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Otay River (Cont'd)	25,919	635	3,380	6.5	112.6	112.6	113.3	0.7
	26,489	665	4,846	4.5	114.0	114.0	114.7	0.7
	27,534	713	2,379	9.2	115.5	115.5	116.5	1.0
	28,094	571	3,241	6.8	121.1	121.1	122.0	0.9
	28,284	590	1,599	13.8	123.1	123.1	123.1	0.0
	28,629	564	4,085	5.4	126.7	126.7	127.0	0.3
	28,959	574	3,466	6.3	126.9	126.9	127.4	0.5
	29,259	580	5,340	4.1	127.2	127.2	128.2	1.0
	29,429	600	2,128	10.3	129.6	129.6	129.6	0.0
	29,619	630	4,329	5.1	131.2	131.2	131.6	0.4
	29,829	637	4,332	5.1	131.4	131.4	131.8	0.4
	30,404	650	5,548	4.0	131.8	131.8	132.5	0.7
	30,884	685	1,941	11.3	141.4	141.4	141.4	0.0
	30,964	833	6,336	3.5	142.9	142.9	143.6	0.7
	32,114	808	8,694	2.5	143.4	143.4	144.1	0.7
	33,074	520	3,145	7.0	143.5	143.5	144.1	0.6
	33,824	523	3,240	6.8	145.8	145.8	146.4	0.6
	34,664	515	2,703	8.1	149.2	149.2	149.4	0.2
	35,779	446	1,892	11.6	158.3	158.3	158.3	0.0
	36,599	520	3,324	6.6	163.8	163.8	163.9	0.1
37,049	406	3,069	7.2	164.9	164.9	165.0	0.1	
37,549	268	1,600	13.7	167.7	167.7	167.7	0.0	
37,749	280	2,171	10.1	170.7	170.7	170.7	0.0	
38,239	315	1,872	11.7	173.1	173.1	173.1	0.0	
38,479	380	2,002	11.0	175.6	175.6	175.6	0.0	
38,829	462	2,865	7.7	178.2	178.2	178.4	0.2	

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

OTAY RIVER

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Otay River (Cont'd)									
CA	39,629	762	5,569	3.9	179.3	179.3	180.3	1.0	
CB	41,309	741	3,587	6.1	182.1	182.1	182.3	0.2	
CC	42,409	501	2,035	10.8	190.1	190.1	190.4	0.3	
CD	43,509	873	4,522	4.9	195.8	195.8	196.2	0.4	
CE	44,789	1,110	3,708	5.9	199.7	199.7	199.7	0.0	
CF	45,989	579	2,484	8.9	206.1	206.1	206.1	0.0	
CG	46,789	794	5,009	4.4	209.0	209.0	209.2	0.2	
CH	47,989	828	2,393	9.2	214.7	214.7	214.7	0.0	
CI	48,989	1,155	2,657	8.3	229.2	229.2	229.2	0.0	
CJ	49,889	775	3,154	7.0	236.1	236.1	236.4	0.3	
CK	50,189	615	2,112	10.4	237.9	237.9	238.2	0.3	
CL	50,559	619	2,878	7.6	241.3	241.3	242.0	0.7	
CM	50,909	415	2,577	8.5	243.0	243.0	243.6	0.6	
CN	51,569	368	1,824	12.1	248.0	248.0	248.0	0.0	
CO	52,049	390	2,923	7.5	252.4	252.4	253.0	0.6	
CP	53,329	437	1,893	11.6	259.9	259.9	259.9	0.0	
CQ	53,499	454	1,919	11.5	261.8	261.8	261.8	0.0	
CR	53,844	583	4,261	5.2	264.3	264.3	265.1	0.8	
CS	54,234	659	5,891	3.7	264.6	264.6	265.6	1.0	
CT	54,694	518	4,336	5.1	264.9	264.9	265.8	0.9	
CU	54,974	370	3,002	7.3	265.0	265.0	265.9	0.9	
CV	55,074	321	2,174	10.1	265.0	265.0	265.9	0.9	
CW	55,154	297	1,777	12.4	265.2	265.2	265.9	0.7	
CX	55,254	295	2,419	9.1	267.5	267.5	267.5	0.0	
CY	55,524	203	1,668	13.2	167.7	167.7	167.8	0.1	
CZ	55,604	165	1,361	16.2	269.0	269.0	269.0	0.0	

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

O' TAY RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Otay River (Cont'd)	DA	55,774	1,212	18.1	270.4	270.4	270.4	0.0
	DB	55,934	1,041	21.1	278.9	278.9	278.9	0.0
	DC	56,144	1,291	17.0	286.4	286.4	286.4	0.0
	DD	56,314	1,155	19.0	293.7	293.7	293.7	0.0
	DE	56,564	1,425	15.4	297.7	297.7	297.7	0.0
	DF	56,754	94	19.5	298.1	298.1	298.1	0.0
	DG	56,914	89	19.8	303.9	303.9	303.9	0.0
	DH	57,124	114	18.5	311.2	311.2	311.2	0.0
	DI	57,304	128	17.6	316.2	316.2	316.2	0.0
	DJ	57,884	104	19.2	330.0	330.0	330.0	0.0
	DK	58,364	164	16.4	339.9	339.9	339.9	0.0
	DL	58,724	150	16.8	345.2	345.2	345.2	0.0
	DM	59,494	229	7.6	353.0	353.0	353.0	0.0
	DN	59,914	141	16.6	353.8	353.8	353.8	0.0
	DO	60,034	165	10.4	357.6	357.6	357.6	0.0
	DP	60,314	161	16.2	357.6	357.6	357.6	0.0
DQ	60,564	195	14.5	363.1	363.1	363.1	0.0	
DR	60,934	196	15.4	371.5	371.5	371.5	0.0	
DS	61,114	161	16.2	373.2	373.2	373.2	0.0	
DT	62,014	301	5.2	379.1	379.1	379.1	0.0	

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

OTAY RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE (')	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET (M.G.D.))	WITH FLOODWAY	INCREASE
Pala Mesa Creek A B C D E F G H I J K L M N O P Q R S T U V	265	24	276	6.2	310.4	310.4	311.4	1.0
	300	35	144	11.8	311.5	311.5	311.5	0.0
	680	124	456	3.7	316.5	316.5	317.3	0.8
	965	330	2,466	0.7	316.7	316.7	317.7	1.0
	1,515	390	690	2.5	317.4	317.4	317.9	0.5
	1,820	564	342	5.0	321.4	321.4	321.4	0.0
	2,055	548	428	4.0	324.3	324.3	324.3	0.0
	2,235	634	365	4.7	327.6	327.6	327.7	0.1
	2,815	449	485	3.5	340.6	340.6	341.4	0.8
	3,205	225	261	6.5	347.9	347.9	347.9	0.0
	3,495	197	440	3.9	353.7	353.7	353.8	0.1
	3,750	153	464	3.7	358.0	358.0	358.0	0.0
	4,120	185	310	5.5	363.7	363.7	363.7	0.0
	4,555	298	606	2.8	370.9	370.9	371.8	0.9
	4,840	175	384	4.4	377.0	377.0	377.7	0.7
	5,215	217	382	4.5	384.1	384.1	384.1	0.0
	5,485	78	222	7.7	387.4	387.4	387.7	0.3
	5,730	58	172	9.9	389.3	389.3	389.4	0.1
	6,030	48	166	10.3	397.3	397.3	397.7	0.4
	6,430	37	152	11.2	412.8	412.8	413.0	0.2
	6,845	53	178	9.6	430.2	430.2	430.5	0.3
	7,180	25	130	13.1	442.5	442.5	442.7	0.2

1 Feet Above Interstate Highway 15

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

PALA MESA CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
Paradise Creek									
A	1.950	165	--2	--2	12.6	12.6	12.6	0.0	
B	2.100	225	--2	--2	15.4	15.4	15.4	0.0	
C	3.880	200	289	5.2	116.0	116.0	116.4	0.4	
D	3.960	50	159	9.4	120.7	120.7	121.1	0.4	
E	4.080	50	145	10.3	128.0	128.0	129.0	1.0	
F	4.270	185	--2	--2	--2	143.0	143.0	--2	
G	4.370	125	--2	--2	--2	147.8	147.8	--2	
H	4.480	80	--2	--2	--2	154.3	154.3	--2	
I	4.620	50	--2	--2	--2	161.6	161.6	--2	

¹Miles Above Mouth

²Data Not Available

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Pilgrim Creek								
A	1,260	53	414	6.8	52.0	52.0	52.3	0.3
B	1,861	40	391	7.2	52.9	52.9	53.3	0.4
C	2,155	45	461	6.1	54.3	54.3	54.7	0.4
D	2,560	59	503	4.0	54.8	54.8	55.2	0.4
E	2,773	41	457	4.4	55.5	55.5	55.9	0.4
F	3,205	57	512	3.9	55.6	55.6	56.0	0.4
G	3,505	53	451	4.5	55.7	55.7	56.1	0.4
H	3,905	56	460	4.4	56.0	56.0	56.4	0.4
I	4,368	58	533	3.8	56.4	56.4	56.8	0.4
J	4,845	53	551	3.7	56.7	56.7	57.0	0.3
K	5,145	45	495	4.1	56.8	56.8	57.2	0.4
L	5,520	45	513	3.9	57.0	57.0	57.8	0.8
M	5,910	106	742	2.7	57.2	57.2	58.2	1.0

¹Feet Above Confluence With San Luis Rey River

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAN DIEGO COUNTY, CA
(SAN DIEGO CO.)

FLOODWAY DATA

PILGRIM CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET REL. TO)	WITH FLOODWAY	INCREASE	
Poggi Canyon Creek									
A	773	34	125	11.2	91.0	91.0	91.0	0.0	
B	1,090	67	293	4.8	103.0	103.0	103.0	0.0	
C	1,744	88	196	7.2	106.8	106.8	106.8	0.0	
D	3,178	34	127	11.1	131.0	131.0	131.0	0.0	
E	5,038	45	266	5.5	161.1	161.1	161.1	0.0	
F	5,852	34	127	11.1	164.7	164.7	164.7	0.0	
G	7,038	63	573	2.4	188.1	188.1	188.1	0.0	
H	7,463	41	126	10.1	189.0	189.0	189.0	0.0	
I	8,838	41	186	6.9	204.9	204.9	204.9	0.0	

¹Feet Above Mouth

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (FEET PER SECOND)	REGULARITY	WITHOUT FLOODWAY (FEET MGD)	WITH FLOODWAY	INCREASE
Pomerado Creek								
A	626	55	332	8.7	432.1	432.1	432.9	0.8
B	827	64	458	6.3	435.6	435.6	436.3	0.7
C	1,875	90	485	6.0	449.3	449.3	449.3	0.0
D	2,085	53	339	8.6	449.8	449.8	450.2	0.4
E	2,740	100	610	4.8	456.7	456.7	457.6	0.9
F	3,030	145	413	7.0	457.5	457.5	457.5	0.0
G	3,509	160	598	4.8	461.4	461.4	462.1	0.7
H	3,940	166	310	9.3	462.8	462.8	462.8	0.0
I	4,500	67	229	12.4	466.6	466.6	466.6	0.0
J	5,065	39	212	13.4	472.9	472.9	472.9	0.0
K	5,720	158	358	7.9	477.1	477.1	477.6	0.5
L	6,550	152	300	9.5	485.9	485.9	486.3	0.4
M	7,305	139	272	9.5	493.9	493.9	494.5	0.6
N	8,090	145	275	8.4	502.6	502.6	503.1	0.5
O	8,755	42	207	11.1	508.1	508.1	508.3	0.2
P	9,471	39	186	12.4	516.2	516.2	516.2	0.0

¹Feet Above Confluence With Poway Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

POMERADO CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
Poway Creek									
A	190	172	1,426	9.8	408.0	408.0	408.0	0.0	
B	680	251	2,083	6.7	412.1	412.1	412.2	0.1	
C	1,310	202	1,421	9.9	416.5	416.5	416.5	0.0	
D	2,125	210	1,074	11.2	423.6	423.6	424.0	0.4	
E	2,870	509	2,265	5.3	428.0	428.0	428.5	0.5	
F	3,430	219	1,237	7.8	430.8	430.8	430.8	0.0	
G	4,290	125	917	10.6	433.4	433.4	433.5	0.1	
H	4,910	141	1,241	7.8	440.8	440.8	440.9	0.1	
I	6,195	285	1,464	6.6	449.7	449.7	449.7	0.0	
J	7,090	193	1,008	9.6	454.8	454.8	454.8	0.0	
K	8,060	195	1,347	7.2	458.2	458.2	458.2	0.0	
L	9,620	111	654	9.6	470.6	470.6	470.6	0.0	
M	10,410	109	675	9.3	476.6	476.6	476.6	0.0	
N	11,585	90	456	13.8	489.7	489.7	489.7	0.0	
O	12,490	200	772	7.5	495.7	495.7	496.5	0.8	
P	13,140	--2	--2	--2	--2	--2	--2	--2	
Q	14,730	300	1,185	4.7	516.1	516.1	516.1	0.0	
R	16,030	382	938	6.0	520.7	520.7	520.7	0.0	
S	16,910	390	1,252	4.5	526.9	526.9	527.1	0.2	
T	17,590	518	1,471	3.8	529.9	529.9	530.2	0.3	
U	18,400	146	385	20.0	535.4	535.4	535.4	0.0	
V	19,490	242	635	8.8	542.2	542.2	542.4	0.2	

¹Feet Above the City of Poway Corporate Limits ²Data Not Available

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

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FLOODWAY DATA

POWAY CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Rainbow Creek (Main Branch)	A	64	591	8.1	1,028.3	1,028.3	1,029.3	1.0	
	B	136	881	5.4	1,035.8	1,035.8	1,035.8	0.0	
	C	170	690	7.0	1,035.9	1,035.9	1,035.9	0.0	
	D	872	237	2.7	1,035.9	1,035.9	1,036.7	0.8	
	E	1,216	320	2.4	1,036.2	1,036.2	1,037.0	0.8	
	F	1,431	395	2.4	1,036.3	1,036.3	1,037.1	0.8	
	G	1,494	377	2.4	1,036.3	1,036.3	1,037.1	0.8	
	H	1,940	185	6.4	1,037.3	1,037.3	1,038.0	0.7	
	I	1,940	141	6.5	1,041.2	1,041.2	1,042.2	1.0	
	J	2,480	741	2.3	1,043.5	1,043.5	1,044.3	0.8	
	K	2,942	362	2.1	1,043.6	1,043.6	1,044.4	0.8	
	L	3,092	527	2.9	1,045.2	1,045.2	1,046.1	0.9	
	M	3,822	493	3.4	1,045.7	1,045.7	1,046.7	1.0	
	N	4,112	280	2.7	1,049.2	1,049.2	1,049.8	0.6	
	O	4,742	390	3.5	1,050.1	1,050.1	1,050.9	0.8	
	P	5,212	478	5.0	1,053.5	1,053.5	1,054.1	0.6	
	Q	5,542	429	2.4	1,056.7	1,056.7	1,057.5	0.8	
	R	5,922	520	6.1	1,060.9	1,060.9	1,061.6	0.7	
	S	6,955	174	8.5	1,065.6	1,065.6	1,066.0	0.4	
	T	7,772	93	9.8	1,068.7	1,068.7	1,068.7	0.0	
U	8,170	70	13.7	1,073.4	1,073.4	1,073.4	0.0		
	8,904	42							

¹Feet Upstream of Interstate Highway 15

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 RAINBOW CREEK (MAIN BRANCH)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Rainbow Creek (West Branch)								
A	720	314	1,204	4.2	1,045.2	1,045.2	1,046.2	1.0
B	1,130	68	273	9.6	1,047.3	1,047.3	1,047.6	0.3
C	1,958	210	695	3.1	1,052.9	1,052.9	1,053.8	0.9
D	2,258	250	384	5.5	1,055.9	1,055.9	1,055.9	0.0
E	2,292	260	1,084	2.0	1,056.6	1,056.6	1,057.5	0.9
F	2,357	234	999	2.1	1,058.1	1,058.1	1,058.2	0.1
G	2,638	83	348	6.1	1,058.2	1,058.2	1,058.5	0.3
H	2,937	105	357	6.0	1,059.2	1,059.2	1,060.1	0.9
I	3,354	47	321	6.6	1,060.8	1,060.8	1,061.6	0.8
J	3,670	42	180	11.9	1,064.2	1,064.2	1,064.2	0.0
K	4,231	46	227	9.4	1,069.6	1,069.6	1,070.3	0.7

¹Feet Above Confluence With Rainbow Creek (Main Branch)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Rattlesnake Creek								
A	815	51	287	13.6	467.8	467.8	467.8	0.0
B	1,805	42	224	8.0	476.9 ³	474.6	475.6	1.0
C	2,450	37	269	3.7	480.9	480.9	480.9	0.0
D	3,010	24	53	18.9	482.0	482.0	482.0	0.0
E	3,720	22	58	17.2	488.9	488.9	488.9	0.0
F	4,220	182	603	1.3	495.7	495.7	495.9	0.2
G	5,000	84	350	11.1	498.2	498.2	498.6	0.4
H	5,805	159	584	6.7	506.2	506.2	506.6	0.4
I	6,730	195	535	7.3	511.2	511.2	511.3	0.1
J	7,980	300	943	4.1	517.3	517.3	517.7	0.4
K	8,680	624	1,043	3.7	524.4	524.4	524.7	0.3
L	9,080	627/689 ²	1,333	2.8	527.6	527.6	528.0	0.4
M	9,630	297/367 ²	508	5.7	531.9	531.9	532.3	0.4
N	10,050	55/172 ²	356	4.4	538.3	538.3	538.3	0.0
O	10,850	68	337	9.8	546.5	546.5	546.7	0.2
P	11,450	220	409	9.4	553.9	553.9	554.4	0.5
Q	12,245	88	392	8.4	558.2	558.2	558.2	0.0
R	13,040	280	711	7.5	567.1	567.1	567.4	0.3
S	13,670	240	607	5.4	571.6	571.6	572.1	0.5
T	14,430	230	1,431	2.3	580.9	580.9	580.9	0.0
U	15,440	261	429	6.1	586.1	586.1	586.1	0.0
V	16,330	200	379	6.9	596.9	596.9	596.9	0.0
W	17,090	130	315	8.3	608.7	608.7	608.7	0.0
X	18,030	90	289	9.0	626.2	626.2	626.2	0.0

¹Feet Above Confluence With Poway Creek
²Width/Width of Combined Floodway With Split Flow at Midland Road
³Elevation Controlled by Split Flow at Heritage Hills

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

RATTLESNAKE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
						(FEET NGVD)		
Rattlesnake Creek - Split Flow at Heritage Hills	450	233	328	6.4	476.9	476.9	476.9	0.0
	1,220	134	274	7.7	483.7	483.7	483.7	0.0
	1,810	178	358	3.1	491.2	491.2	491.4	0.2
	2,600	136	502	5.8	494.8	494.8	494.8	0.0
	3,080	130	431	6.7	495.8	495.8	496.0	0.2
Rattlesnake Creek - Split Flow at Midland Road	40	62/689 ²	50	0.2	530.6	530.6	530.6	0.0
	670	70/367 ²	175	9.0	534.4	534.4	534.4	0.0
	890	117/172 ²	386	4.7	538.3	538.3	538.3	0.0

¹Feet Above Convergence With Rattlesnake Creek ²Width/Width of Combined Floodway With Rattlesnake Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

RATTLESNAKE CREEK - SPLIT FLOW AT HERITAGE HILLS
RATTLESNAKE CREEK - SPLIT FLOW AT MIDLAND ROAD

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
(FEET NGVD)								
Reidy Creek								
A	11,500	453	2,055	3.7	690.0	690.0	690.0	0.0
B	12,230	626	1,930	4.0	691.2	691.2	691.7	0.5
C	13,315	600	1,421	5.4	697.7	697.7	697.9	0.2
D	13,850	628	1,134	6.8	701.2	701.2	701.3	0.1
E	15,075	300	810	9.5	708.9	708.9	708.9	0.0
F	15,400	162	945	8.1	709.8	709.8	710.0	0.2
G	16,270	164	897	8.6	717.7	717.7	717.7	0.0
H	17,080	185	1,140	6.8	720.4	720.4	720.4	0.0
I	17,770	230	754	8.6	726.5	726.5	726.7	0.2
J	18,590	325	972	6.7	736.2	736.2	736.5	0.3
K	19,080	370	1,036	3.5	740.9	740.9	741.4	0.5
L	19,580	550	879	4.9	744.6	744.6	744.6	0.0
M	20,430	278	683	6.2	753.5	753.5	754.2	0.7
N	20,980	281	635	6.5	756.7	756.7	757.6	0.9
O	21,520	385	611	6.8	760.9	760.9	761.0	0.1
P	22,020	318	751	5.3	765.8	765.8	766.7	0.9
Q	22,365	366	778	5.1	468.3	768.3	768.6	0.3
R	22,630	275	549	7.3	770.6	770.6	770.7	0.1
S	22,830	100	386	10.4	775.2	775.2	775.2	0.0
T	23,205	270	609	6.6	778.8	778.8	779.6	0.8
U	23,465	330	651	6.1	781.5	781.5	781.6	0.1
V	23,645	380	1,013	3.9	783.4	783.4	783.6	0.2
W	23,920	485	1,117	3.6	784.5	784.5	784.5	0.0
X	24,240	545	690	4.9	786.4	786.4	786.5	0.1
Y	25,055	200	491	6.9	794.6	794.6	795.4	0.8
Z	25,545	140	421	8.1	799.1	799.1	799.9	0.8

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

REIDY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (FEET PER SECOND)	REGULATORS	WIDTH OF FLOODWAY (FEET)	ELEVATION (FEET + G.P.D.)	SURFACE
Reidy Creek (Cont'd)	25,860	200	450	7.5	802.8	802.8	802.9	0.1
	26,150	195	496	6.9	806.2	806.2	806.3	0.1
	26,440	300	528	6.4	810.2	810.2	810.3	0.1
	27,040	125	399	8.5	817.5	817.5	818.1	0.6
	27,830	150	418	8.1	827.4	827.4	828.0	0.6
	28,225	240	548	6.2	832.9	832.9	833.0	0.1
	29,100	76	264	10.6	840.2	840.2	840.2	0.0
	29,550	73	264	10.6	847.3	847.3	847.3	0.0
	30,110	528	679	4.1	853.9	853.9	854.0	0.1
	30,615	317	699	4.0	857.5	857.5	858.2	0.7
	30,935	170	378	7.4	863.2	863.2	863.4	0.2
	31,305	230	509	5.5	867.7	867.7	867.8	0.1
	31,630	180	411	6.8	870.0	870.0	870.1	0.1
	31,910	135	355	7.9	874.3	874.3	874.7	0.4
	32,230	218	457	6.1	877.2	877.2	877.7	0.5
	32,500	86	298	9.4	879.7	879.7	879.7	0.0
	33,045	176	265	6.0	886.4	886.4	886.6	0.2
33,310	240	377	4.2	888.9	888.9	889.2	0.3	
33,820	101	262	6.1	891.8	891.8	892.1	0.3	
34,195	100	213	7.5	895.2	895.2	895.2	0.0	
34,480	130	234	6.8	900.6	900.6	900.6	0.0	

¹Feet Above Mouth

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	INSTANT ¹	WIDTH (FEET)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (FEET PER SECOND)	REGULATED ²	WITHOUT FLOODWAY (FEET)	WITH FLOODWAY	INCREASE
Rice Canyon Creek	1,560	70	380	3.7	42.9	39.3	39.7	0.4
	1,978	45	182	7.7	45.2	40.1	40.3	0.2

¹Feet Above Mouth

²Elevations Controlled by Influence From Sweetwater River

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

RICE CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Samagutuma Creek	A	415	674	13.2	3,398.5	3,398.5	3,398.5	0.0	
	B	665	669	13.3	3,400.8	3,400.8	3,400.8	0.0	
	C	1,015	759	11.7	3,403.8	3,403.8	3,403.8	0.0	
	D	1,525	70	16.1	3,408.7	3,408.7	3,408.7	0.0	
	E	1,773	77	15.3	3,411.6	3,411.6	3,411.6	0.0	
	F	1,873	69	16.1	3,426.1	3,426.1	3,426.1	0.0	
	G	2,115	101	14.2	3,454.1	3,454.1	3,454.1	0.0	
	H	2,445	92	11.1	3,457.5	3,457.5	3,457.5	0.0	
	I	2,698	63	15.2	3,457.8	3,457.8	3,457.8	0.0	
	J	2,896	85	11.8	3,460.5	3,460.5	3,460.5	0.0	
	K	2,936	170	12.0	3,470.2	3,470.2	3,471.1	0.9	
	L	3,126	120	13.4	3,475.6	3,475.6	3,476.6	1.0	
	M	3,386	95	12.4	3,478.3	3,478.3	3,479.3	1.0	
	N	3,536	92	14.6	3,480.0	3,480.0	3,480.1	0.1	
	O	3,679	90	8.3	3,483.7	3,483.7	3,483.7	0.0	
	P	3,899	90	1,062	3,483.7	3,483.7	3,483.7	0.0	
	Q	4,174	64	534	3,488.1	3,488.1	3,488.1	0.0	
	R	4,350	95	1,086	3,492.7	3,492.7	3,492.7	0.0	
	S	4,412	125	486	11.1	3,495.7	3,495.7	3,495.7	0.0
	T	9,356	91	500	10.8	3,496.9	3,496.9	3,496.9	0.0
	U	5,013	91	588	9.2	3,498.0	3,498.0	3,498.0	0.0
	V	5,208	95	449	12.0	3,498.8	3,498.8	3,498.8	0.0
	W	5,901	103	576	9.4	3,504.5	3,504.5	3,504.5	0.0
	X	6,221	61	377	14.3	3,508.2	3,508.2	3,508.2	0.0
	Y	6,261	64	427	12.7	3,508.9	3,508.9	3,508.9	0.0
	Z	6,391	180	892	6.1	3,511.6	3,511.6	3,511.6	0.0

¹Feet Above Confluence With Sweetwater River (Descanso Area)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Samagutuma Creek (Cont'd)								
AA	6,781	91	433	12.5	3,515.8	3,515.8	3,515.8	0.0
AB	6,971	71	396	13.6	3,535.2	3,535.2	3,535.2	0.0
AC	7,791	51	437	12.3	3,549.4	3,549.4	3,549.4	0.0
AD	8,271	90	444	12.2	3,556.9	3,556.9	3,557.0	0.1
AE	8,771	80	500	10.8	3,563.5	3,563.5	3,564.0	0.5
AF	9,231	100	477	11.3	3,568.2	3,568.2	3,568.5	0.3
AG	9,531	90	431	12.5	3,576.4	3,576.4	3,576.4	0.0
AH	10,011	80	414	13.0	3,583.4	3,583.4	3,583.4	0.0
AI	10,491	107	459	11.8	3,592.7	3,592.7	3,592.7	0.0
AJ	10,771	121	478	11.3	3,601.5	3,601.5	3,601.5	0.0
AK	11,071	75	405	13.3	3,609.9	3,609.9	3,610.0	0.1
AL	11,471	113	464	11.6	3,621.7	3,621.7	3,621.7	0.0
AM	11,801	61	380	14.2	3,640.0	3,640.0	3,640.1	0.1
AN	12,329	91	432	12.5	3,665.7	3,665.7	3,665.7	0.0
AO	12,538	64	387	13.9	3,691.4	3,691.4	3,691.4	0.0

¹Feet Above Confluence With Sweetwater River (Descanso Area)

FEDERAL EMERGENCY MANAGEMENT AGENCY

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FLOODWAY DATA

SAMAGUTUMA CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
San Diego River									
A	20,508	963	6,069	5.9	16.4	16.4	16.4	0.0	
B	22,303	861	4,443	8.1	20.6	20.6	20.6	0.0	
C	23,403	950	6,814	5.3	23.5	23.5	24.2	0.7	
D	25,243	1,510	9,936	3.6	25.1	25.1	25.9	0.8	
E	27,593	1,380	6,810	5.3	28.1	28.1	28.9	0.8	
F	28,813	797	4,661	7.7	32.1	32.1	33.1	1.0	
G	32,024	352	6,440	5.6	36.2	36.2	37.1	0.9	
H	33,539	405	6,258	5.8	39.4	39.4	39.7	0.3	
I	35,576	337	6,058	5.9	40.6	40.6	40.9	0.3	
J	36,923	336	6,148	5.9	44.2	44.2	44.3	0.1	
K	38,381	415	7,879	4.8	45.5	45.5	45.5	0.0	
L	40,966	432	8,647	4.2	46.6	46.6	46.6	0.0	
M	43,621	538	4,900	7.3	51.7	51.7	52.0	0.3	
N	45,511	303	3,144	11.4	55.7	55.7	55.8	0.1	
O	48,553	828	11,269	3.2	64.4	64.4	64.5	0.1	
P	51,043	395	3,824	9.4	67.4	67.4	67.5	0.1	
Q	52,423	705	7,904	4.6	69.5	69.5	69.6	0.1	
R	53,280	402	5,693	6.3	71.0	71.0	71.0	0.0	
S	53,766	470	3,861	9.3	71.0	71.0	71.0	0.0	
T	54,319	229	2,166	16.6	74.7	74.7	74.7	0.0	
U	56,074	659	7,841	4.6	88.0	88.0	88.0	0.2	
V	58,207	305	4,851	7.4	88.3	88.3	88.7	0.4	
W	59,830	679	10,284	3.5	89.3	89.3	89.8	0.5	
X	60,500	407	2,847	12.6	89.0	89.0	89.2	0.0	
Y	61,250	331	3,185	11.3	93.4	93.4	94.2	0.8	
Z	61,705	346	4,382	8.2	96.7	96.7	96.7	0.0	
AA	63,575	472	3,677	9.8	102.5	102.5	102.7	0.2	
AB	65,927	132	1,954	18.4	112.0	112.0	112.0	0.0	

¹Feet Above Pacific Ocean

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	INSTANT ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATED ²	WITHOUT FLOODWAY (FEET)	WITH FLOODWAY	INCREASE
Rice Canyon Creek A B	1,560	70	380	3.7	42.9	39.3	39.7	0.4
	1,978	45	182	7.7	45.2	40.1	40.3	0.2

¹Feet Above Mouth

²Elevations Controlled by Influence From Sweetwater River

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 RICE CANYON CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
San Diego River (Cont'd)								
AC	66,802 ¹	246	3,024	11.9	119.5	119.5	119.5	0.0
AD	67,180 ¹	233	3,259	11.0	121.0	121.0	121.0	0.0
AE	68,438 ¹	153	2,402	15.0	128.2	128.2	128.2	0.0
AF	0 ²	280	4,770	7.9	289.4	289.4	290.4	1.0
AG	98 ²	280	4,243	8.9	291.8	291.8	292.5	0.7
AH	618 ²	275	5,118	7.4	295.7	295.7	296.5	0.8
AI	1,170 ²	270	5,075	7.5	297.6	297.6	298.6	1.0
AJ	1,710 ²	545	8,606	4.4	299.4	299.4	300.3	0.9
AK	2,400 ²	865	10,394	3.7	299.9	299.9	300.9	1.0
AL	2,750 ²	1,045	11,054	3.4	300.1	300.1	301.1	1.0
AM	3,050 ²	1,200	14,092	2.7	300.2	300.2	301.2	1.0
AN	3,600 ²	1,290	17,618	2.2	300.4	300.4	301.4	1.0
AO	4,200 ²	1,090	14,230	2.7	300.5	300.5	301.4	0.9
AP	4,550 ²	1,040	11,769	3.2	300.5	300.5	301.5	1.0
AQ	5,000 ²	970	8,438	4.5	300.8	300.8	301.7	0.9
AR	5,487 ²	735	6,465	5.9	301.5	301.5	302.4	0.9
AS	5,900 ²	660	5,790	6.6	302.7	302.7	303.7	1.0
AT	6,220 ²	498	5,410	7.0	304.6	304.6	305.2	0.6
AU	7,097 ²	695	7,383	5.1	307.5	307.5	308.2	0.7
AV	8,128 ²	600	5,647	6.7	309.6	309.6	310.5	0.9
AW	9,079 ²	560	6,111	6.1	313.2	313.2	313.5	0.3
AX	10,100 ²	1,300	12,607	3.0	314.9	314.9	315.2	0.3
AY	11,441 ²	1,557	10,122	3.8	316.2	316.2	316.5	0.3
AZ	12,095 ²	1,470	9,785	3.9	317.4	317.4	317.7	0.3
BA	12,800 ²	1,545	9,949	3.7	318.1	318.1	318.3	0.2
BB	14,100 ²	799	---	---	319.2	319.2	319.4	0.2
BC	14,889 ²	930	---	---	321.1	321.1	321.2	0.1

¹Feet Above Pacific Ocean ²Feet Above Limit of Detailed Study

³Data Not Available

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SAN DIEGO RIVER

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
San Diego River (Cont'd)								
BD	15,927 ¹	875	--3	--3	327.0	327.0	327.0	0.0
BE	16,611 ¹	990	--3	--3	327.6	327.6	327.6	0.0
BF	17,629 ¹	728	--3	--3	328.4	328.4	329.1	0.7
BG	19,199 ¹	775	--3	--3	332.4	332.4	332.9	0.5
BH	19,945 ¹	462	--3	--3	333.4	333.4	334.0	0.6
BI	20,798 ¹	995	--3	--3	336.3	336.3	336.3	0.0
BJ	21,874 ¹	1,000	--3	--3	340.4	340.4	340.4	0.0
BK	22,720 ¹	1,011	--3	--3	340.5	340.5	340.6	0.1
BL	23,476 ¹	950	--3	--3	345.3	345.3	346.0	0.7
BM	24,294 ¹	575	--3	--3	346.4	346.4	346.9	0.5
BN	25,555 ¹	655	--3	--3	348.3	348.3	348.5	0.2
BO	26,863 ¹	512	--3	--3	348.6	348.6	348.8	0.2
BP	28,470 ¹	737	--3	--3	349.8	349.8	350.1	0.3
BQ	29,216 ¹	443	--3	--3	349.7	349.7	350.0	0.3
BR	29,954 ¹	417	--3	--3	350.3	350.3	350.6	0.3
BS	-1,359 ²	390	5,882	5.6	360.7	360.7	360.7	0.0
BT	-420 ²	357	3,493	9.5	360.9	360.9	360.9	0.0
BU	-250 ²	381	2,926	8.1	369.2	369.2	369.2	0.0
BV	1,231 ²	393	3,885	8.5	371.9	371.9	372.0	0.1
BW	2,231 ²	486	8,142	4.1	374.4	374.4	374.5	0.1
BX	3,331 ²	508	1,426	4.7	374.6	374.6	374.7	0.1
BY	4,519 ²	580	7,375	4.3	378.2	378.2	378.3	0.1
BZ	6,293 ²	503	5,503	5.8	381.6	381.6	381.6	0.9
CA	7,343 ²	430	3,110	10.1	391.9	391.9	392.1	0.2
CB	9,933 ²	508	6,416	4.8	395.3	395.3	395.4	0.1
CC	10,497 ²	588	5,224	5.9	397.2	397.2	397.3	0.1

³Data Not Available

¹Feet Above Limit of Detailed Study
²Feet From Riverford Bridge

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
(FEET NGVD)								
San Dieguito River	642	920	6,206	7.1	10.7	10.7	10.7	0.0
A	1,918	541	5,247	9.1	15.0	15.0	15.0	0.0
B	2,428	469	5,168	9.7	15.6	15.6	15.6	0.0
C	3,156	772	10,328	4.5	18.1	18.1	18.7	0.6
D	5,333	1,082	13,465	3.7	18.5	18.5	19.2	0.7
E								

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SAN DIEGUITO RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Samagutuma Creek (Cont'd)								
AA	6,781	91	433	12.5	3,515.8	3,515.8	3,515.8	0.0
AB	6,971	71	396	13.6	3,535.2	3,535.2	3,535.2	0.0
AC	7,791	51	437	12.3	3,549.4	3,549.4	3,549.4	0.0
AD	8,271	90	444	12.2	3,556.9	3,556.9	3,557.0	0.1
AE	8,771	80	500	10.8	3,563.5	3,563.5	3,564.0	0.5
AF	9,231	100	477	11.3	3,568.2	3,568.2	3,568.5	0.3
AG	9,531	90	431	12.5	3,576.4	3,576.4	3,576.4	0.0
AH	10,011	80	414	13.0	3,583.4	3,583.4	3,583.4	0.0
AI	10,491	107	459	11.8	3,592.7	3,592.7	3,592.7	0.0
AJ	10,771	121	478	11.3	3,601.5	3,601.5	3,601.5	0.0
AK	11,071	75	405	13.3	3,609.9	3,609.9	3,610.0	0.1
AL	11,471	113	464	11.6	3,621.7	3,621.7	3,621.7	0.0
AM	11,801	61	380	14.2	3,640.0	3,640.0	3,640.1	0.1
AN	12,329	91	432	12.5	3,665.7	3,665.7	3,665.7	0.0
AO	12,538	64	387	13.9	3,691.4	3,691.4	3,691.4	0.0

¹Feet Above Confluence With Sweetwater River (Descanso Area)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION NUMBER (CROSS SECTION)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITH FLOODWAY	WITH FLOODWAY INCREASE
San Elijo Creek A B	0	335	916	2.3	12.6	9.4 ²	10.4 ²
	1,105	227	498	4.2	16.4	16.4	16.8
							1.0 0.4

¹Feet Above San Elijo Lagoon
²Elevation Computed Without Consideration of Backwater Effects From San Elijo Lagoon

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

SAN ELIJO CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
San Luis Rey River (At Oceanside)	A	494	4,179	12.2	9.4	9.4	9.5	0.1	
	B	1,357	5,830	8.8	12.2	12.2	13.0	0.8	
	C	2,171	3,880	13.1	13.8	13.8	14.1	0.3	
	D	2,837	4,600	11.1	17.5	17.5	17.5	0.0	
	E	4,077	4,298	11.9	19.7	19.7	19.7	0.0	
	F	5,562	8,353	6.1	24.6	24.6	24.7	0.1	
	G	6,806	10,174	5.0	25.7	25.7	25.9	0.2	
	H	8,632	10,146	5.0	27.0	27.0	27.2	0.2	
	I	10,161	8,598	5.9	28.0	28.0	28.3	0.3	
	J	11,241	10,740	4.8	29.0	29.0	29.3	0.3	
	K	12,379	13,177	3.9	30.7	30.7	30.9	0.2	
	L	14,302	12,419	4.1	31.4	31.4	31.8	0.4	
	M	15,745	10,951	4.7	32.5	32.5	32.9	0.4	
	N	17,642	8,401	6.1	37.8	37.8	38.1	0.3	
	O	19,794	1,434	5.4	42.5	42.5	42.7	0.2	
	P	21,780	1,102	5,708	8.9	46.0	46.0	46.2	0.2
	Q	22,856	741	6,460	7.9	48.7	48.7	48.8	0.1
	R	24,774	781	7,908	6.4	51.7	51.7	51.8	0.1
	S	26,214	859	5,175	9.9	53.7	53.7	53.8	0.1
	T	27,861	678	6,743	7.6	58.0	58.0	58.1	0.1
	U	28,917	905	6,557	7.8	61.0	61.0	61.0	0.0
	V	30,564	678	9,676	5.3	63.4	63.4	63.4	0.0
	W	32,338	1,132	5,393	9.5	65.5	65.5	65.7	0.2
	X	33,963	654	5,857	8.7	69.6	69.6	69.6	0.0
	Y	35,951	872	6,307	8.1	72.9	72.9	73.2	0.3
	Z	37,016	943	4,858	10.5	75.4	75.4	75.5	0.1

¹feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

SAN LUIS REY RIVER (AT OCEANSIDE)

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
San Luis Rey River (At Oceanside)									
AA	37,967	696	5,939	8.6	82.2	82.2	82.2	0.0	
AB	39,077	569	4,832	10.6	83.8	83.8	83.8	0.0	
AC	39,988	486	4,549	11.2	87.3	87.3	87.3	0.0	
AD	41,170	505	5,262	9.7	90.8	90.8	90.8	0.0	
AE	41,902	845	7,143	7.1	92.6	92.6	92.6	0.0	
AF	43,190	931	6,808	7.5	94.1	94.1	94.1	0.0	
AG	43,984	898	8,150	6.3	95.5	95.5	95.6	0.1	
AH	45,225	1,112	8,534	6.0	96.7	96.7	96.9	0.2	
AI	46,961	909	4,652	11.0	100.6	100.6	100.6	0.0	
AJ	48,039	760	4,523	11.3	104.0	104.0	104.0	0.0	
AK	48,970	715	7,051	7.2	107.1	107.1	107.2	0.1	
AL	50,002	862	5,170	9.9	108.3	108.3	108.5	0.2	
AM	51,602	808	6,815	7.5	113.3	113.3	113.3	0.0	
AN	53,234	992	6,850	7.4	116.0	116.0	116.0	0.0	
AO	55,408	1,090	9,731	5.2	119.6	119.6	119.8	0.2	
AP	56,382	938	7,533	6.8	120.6	120.6	120.9	0.3	
AQ	58,139	575	6,140	8.3	125.1	125.1	125.1	0.0	
AR	59,318	650/0	4,840	10.5	126.6	126.6	126.8	0.2	

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 SAN LUIS REY RIVER (AT OCEANSIDE)

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
San Marcos Creek	1,770 ¹	400	3,145	4.7	515.3	515.3	515.9	0.6	
	3,420 ¹	200	1,679	7.8	520.8	520.8	521.1	0.3	
	5,090 ¹	590	3,181	4.1	526.3	526.3	526.9	0.6	
	6,877 ¹	800	4,417	3.0	534.0	534.0	534.6	0.6	
	8,077 ¹	559	2,198	4.1	539.1	539.1	539.1	0.0	
	9,367 ¹	521	1,731	5.2	542.0	542.0	542.0	0.0	
	10,855 ¹	407	1,897	4.8	550.2	550.2	550.2	0.0	
	12,245 ¹	304	1,719	7.2	560.9	560.9	560.9	0.0	
	13,570 ¹	420	2,302	5.3	564.5	564.5	564.7	0.2	
	14,995 ¹	380	2,822	1.8	570.6	570.6	571.1	0.5	
	15,655 ¹	310	982	4.5	571.1	571.1	571.7	0.6	
	16,898 ¹	360	2,033	2.2	583.9	583.9	584.4	0.5	
	17,686 ¹	240	980	4.5	591.6	591.6	591.9	0.3	
	19,146 ¹	273	557	7.9	602.8	602.8	602.8	0.0	
	20,106 ¹	289	752	5.9	611.5	611.5	611.6	0.1	
	21,286 ¹	75	457	8.4	620.1	620.1	620.1	0.0	
San Marcos Creek, Highway 78 Split Flow	1,980 ²	460	500	4.9	545.4	545.4	545.4	0.0	
	2,640 ²	286	593	4.1	548.3	548.3	548.3	0.0	
	4,310 ²	304	1,775	2.3	560.6	560.6	560.6	0.0	

¹Feet Above Lake San Marcos Creek

²Feet Above Confluence With San Marcos Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

SAN MARCOS CREEK - SAN MARCOS CREEK, HIGHWAY 78 SPLIT FLOW

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Maria Creek (San Pasqual Valley Area)	A	1,240	2,040	12.7	371.2	371.2	371.2	0.0
	B	2,390	2,703	9.6	376.0	376.0	376.0	0.0
	C	3,545	2,178	11.9	380.7	380.7	380.7	0.0
	D	3,826	2,133	12.2	382.2	382.2	382.2	0.0
	E	4,013	4,565	5.7	385.0	385.0	385.1	0.1
	F	4,717	2,527	8.3	385.8	385.8	386.0	0.2
	G	5,409	1,867	10.2	388.3	388.3	388.3	0.0
	H	6,145	1,348	14.1	389.9	389.9	390.0	0.1
	I	7,765	2,301	8.3	396.4	396.4	396.6	0.2
	J	8,411	1,716	1.1	397.4	397.4	397.6	0.2
	K	8,481	1,814	10.5	397.7	397.7	397.9	0.2
	L	9,232	348	4,006	4.7	400.1	400.2	0.1
	M	10,140	176	1,761	10.8	400.4	400.6	0.2

¹Feet Above Confluence With Santa Ysabel Creek

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET ROAD)	WITH FLOODWAY	INCREASE	
Santa Maria Creek (Santa Maria Valley Area) (Cont'd)	BV	49,290	357	7.8	1,580.8	1,580.8	1,581.5	0.7	
	BW	49,645	285	9.8	1,587.2	1,587.2	1,587.4	0.2	
	BX	49,930	374	7.5	1,589.9	1,589.9	1,590.4	0.5	
	BY	50,300	354	7.9	1,595.2	1,595.2	1,595.8	0.6	
	BZ	50,350	382	7.3	1,596.9	1,596.9	1,597.8	0.9	
	CA	51,140	50	12.1	1,609.6	1,609.6	1,610.0	0.4	

¹Feet Above Downstream Limit of Detailed Study

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

SANTA MARIA CREEK (SANTA MARIA VALLEY AREA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NGVD)			
Santa Maria Creek (Santa Maria Valley Area) (Cont'd)								
AX	36,515	548	2,277	6.9	1,437.5	1,437.5	1,437.7	0.2
AY	36,910	560	2,523	6.2	1,438.8	1,438.8	1,439.1	0.3
AZ	37,705	675	1,919	8.1	1,443.0	1,443.0	1,443.0	0.0
BA	38,435	610	2,250	6.9	1,446.4	1,446.4	1,447.4	1.0
BB	39,175	640	1,878	8.3	1,451.3	1,451.3	1,452.1	0.8
BC	39,790	500	1,888	8.3	1,456.2	1,456.2	1,456.5	0.3
BD	40,440	234	684	6.1	1,461.4	1,461.4	1,461.4	0.0
BE	41,660	90	357	11.5	1,476.3	1,476.3	1,476.3	0.0
BF	42,050	165	753	5.4	1,479.7	1,479.7	1,480.7	1.0
BG	42,490	77	345	11.6	1,485.0	1,485.0	1,485.6	0.6
BH	42,990	105	499	8.0	1,490.8	1,490.8	1,490.9	0.1
BI	43,440	105	418	9.3	1,495.8	1,495.8	1,496.4	0.6
BJ	44,170	350	564	6.9	1,503.4	1,503.4	1,503.5	0.1
BK	44,570	445	547	7.0	1,507.5	1,507.5	1,507.6	0.1
BL	44,990	340	188	8.0	1,512.8	1,512.8	1,513.4	0.6
BM	45,090	290	1,094	1.4	1,516.6	1,516.6	1,517.5	0.9
BN	45,295	210	485	3.1	1,516.6	1,516.6	1,517.5	0.9
BO	45,380	180	380	4.0	1,517.0	1,517.0	1,517.6	0.6
BP	45,840	27	81	6.2	1,524.1	1,524.1	1,524.1	0.0
BQ	46,410	22	56	8.9	1,532.7	1,532.7	1,532.7	0.0
BR	47,350	80	84	6.0	1,548.8	1,548.8	1,548.8	0.0
BS	47,580	220	141	3.6	1,551.8	1,551.8	1,551.8	0.0
BT	48,320	65	254	11.0	1,562.7	1,562.7	1,563.0	0.3
BU	48,680	92	265	10.6	1,566.8	1,566.8	1,566.8	0.0

¹Feet Above Downstream Limit of Detailed Study

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Santa Maria Creek (Santa Maria Valley Area) (Cont'd)									
Z	21,070	465	2,040	7.7	1,378.5	1,378.5	1,379.3	0.8	
AA	21,620	392	2,250	6.9	1,381.3	1,381.3	1,381.5	0.2	
AB	22,450	407	2,170	7.2	1,383.7	1,383.7	1,383.8	0.1	
AC	23,055	300	1,665	9.4	1,385.1	1,385.1	1,386.0	0.9	
AD	23,605	396	2,328	6.7	1,389.1	1,389.1	1,389.1	0.0	
AE	24,120	304	2,105	7.4	1,391.3	1,391.3	1,391.6	0.3	
AF	25,330	515	3,253	4.8	1,395.3	1,395.3	1,395.9	0.6	
AG	26,220	570	2,359	6.6	1,398.8	1,398.8	1,398.9	0.1	
AH	26,840	530	2,648	5.9	1,401.2	1,401.2	1,401.8	0.6	
AI	28,750	820	4,379	3.6	1,407.6	1,407.6	1,408.5	0.9	
AJ	28,850	930	5,142	3.0	1,408.3	1,408.3	1,409.1	0.8	
AK	30,130	460	2,216	7.0	1,411.5	1,411.5	1,411.8	0.3	
AL	30,630	565	2,455	6.4	1,413.0	1,413.0	1,414.0	1.0	
AM	31,160	527	2,449	6.4	1,414.9	1,414.9	1,415.8	0.9	
AN	31,905	610	3,146	5.0	1,419.1	1,419.1	1,419.9	0.8	
AO	32,200	395	811	11.2	1,419.1	1,419.1	1,419.7	0.6	
AP	32,500	231	1,595	9.8	1,420.7	1,420.7	1,420.7	0.0	
AQ	32,590	238	2,166	7.2	1,422.1	1,422.1	1,423.1	1.0	
AR	33,165	447	1,746	8.9	1,422.8	1,422.8	1,423.2	0.4	
AS	33,985	250	1,545	10.1	1,425.4	1,425.4	1,426.3	0.9	
AT	34,210	508	1,396	11.2	1,427.8	1,427.8	1,428.2	0.4	
AU	34,290	560	3,697	4.2	1,430.0	1,430.0	1,430.7	0.7	
AV	34,885	500	2,625	5.9	1,430.4	1,430.4	1,431.2	0.8	
AW	36,090	435	1,751	8.9	1,434.8	1,434.8	1,435.3	0.5	

¹Feet Above Downstream Limit of Detailed Study

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY FLOODWAY	WITHOUT FLOODWAY (FEET (66,2/1))	WITH FLOODWAY	INCREASE
Santa Maria Creek (Santa Maria Valley Area)	A	375	2,726	6.4	1,315.7	1,315.7	1,316.7	1.0
	B	950	1,300	13.3	1,317.9	1,317.9	1,318.1	0.2
	C	1,355	1,425	12.1	1,323.9	1,323.9	1,324.9	1.0
	D	2,035	3,562	4.9	1,326.8	1,326.8	1,327.6	0.8
	E	3,165	2,291	7.6	1,330.3	1,330.3	1,330.7	0.4
	F	3,845	3,194	5.4	1,331.7	1,331.7	1,332.0	0.3
	G	4,710	1,979	8.7	1,332.4	1,332.4	1,333.3	0.9
	H	5,950	2,095	8.3	1,335.9	1,335.9	1,336.8	0.9
	I	6,680	3,187	5.4	1,338.1	1,338.1	1,339.1	1.0
	J	7,980	3,380	5.1	1,341.6	1,341.6	1,341.9	0.3
	K	8,575	3,350	5.2	1,342.2	1,342.2	1,342.7	0.5
	L	8,680	2,542	6.8	1,342.3	1,342.3	1,342.8	0.5
	M	9,380	3,012	5.7	1,345.3	1,345.3	1,345.7	0.4
	N	11,060	4,107	4.2	1,348.8	1,348.8	1,349.8	1.0
	O	12,270	3,686	4.7	1,351.2	1,351.2	1,352.2	1.0
	P	13,450	2,714	6.4	1,354.7	1,354.7	1,355.7	1.0
	Q	14,040	3,653	4.7	1,356.3	1,356.3	1,357.3	1.0
	R	14,485	2,532	6.8	1,357.1	1,357.1	1,358.1	1.0
	S	15,110	894	4.0	1,358.8	1,358.8	1,359.8	1.0
	T	16,430	470	10.5	1,362.1	1,362.1	1,362.1	0.0
U	16,930	875	4.6	1,366.8	1,366.8	1,366.8	0.0	
V	17,760	704	5.8	1,368.8	1,368.8	1,369.8	1.0	
W	18,710	1,090	3.3	1,370.5	1,370.5	1,371.5	1.0	
X	19,295	719	7.3	1,371.2	1,371.2	1,372.0	0.8	
Y	20,720	300	7.8	1,376.9	1,376.9	1,377.8	0.9	

¹Feet Above Downstream Limit of Detailed Study

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET MGD)	WITH FLOODWAY	INCREASE	
Santa Ysabel Creek	A	2,260	8,526	6.9	325.8	318.0 ²	318.0 ²	0.0	
	B	3,390	8,720	6.7	325.8	320.4 ²	320.4 ²	0.0	
	C	5,589	8,854	6.6	325.8	324.1 ²	324.4 ²	0.3	
	D	7,679	12,371	4.7	326.5	326.5	326.9	0.4	
	E	9,314	1,557	6.3	328.3	328.3	328.8	0.5	
	F	11,012	1,696	5.0	330.7	330.7	331.2	0.5	
	G	13,000	2,034	5.2	332.6	332.6	333.1	0.5	
	H	14,570	1,677	7.4	335.0	335.0	335.4	0.4	
	I	16,736	1,012	8.3	340.3	340.3	340.4	0.1	
	J	17,731	1,582	5.5	342.5	342.5	342.6	0.1	
	K	19,544	1,306	6.6	345.3	345.3	345.4	0.1	
	L	20,809	1,031	5,758	9.9	347.4	347.4	347.5	0.1
	M	21,098	1,100	6,974	8.2	348.6	348.6	348.8	0.2
	N	22,561	605	4,851	11.8	352.7	352.7	352.7	0.0
	O	23,581	1,209	9,251	6.0	355.7	355.7	355.9	0.2
	P	24,641	1,068	5,570	9.9	357.2	357.2	357.2	0.0
	Q	25,604	821	6,483	8.5	359.9	359.9	360.0	0.1
	R	27,226	960	4,792	11.5	363.8	363.8	363.8	0.0
	S	29,698	570	4,982	11.1	369.7	369.7	369.9	0.2
	T	30,619	303	2,645	11.5	371.3	371.3	371.5	0.2
	U	31,689	387	2,257	13.2	373.7	373.7	373.9	0.2
	V	32,839	300	2,006	14.9	378.8	378.8	378.9	0.1
	W	33,231	400	2,665	11.2	382.9	382.9	383.2	0.3
	X	33,381	955	5,225	5.7	385.0	385.0	385.1	0.1
	Y	34,151	931	4,636	7.5	385.6	385.6	385.7	0.1
	Z	35,014	643	3,509	10.5	386.7	386.7	387.0	0.3

¹Feet Above Upstream Face of Interstate Highway 15 Bridge
²Elevation Computed Without Consideration of Backwater From Lake Hodges

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SANTA YSABEL CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	INCREASE	
Santa Ysabel Creek (Cont'd)	AA	36,182	1	512	3,150	11.7	390.4	390.5	0.1
	AB	37,261	1	379	2,681	13.8	393.4	393.5	0.1
	AC	38,896	1	501	2,997	12.3	401.1	401.1	0.0
	AD	41,008	1	395	3,211	11.5	409.4	409.9	0.5
	AE	41,913	1	789	5,815	6.3	413.7	413.8	0.1
	AF	43,463	1	420	2,511	12.2	417.6	417.9	0.3
	AG	44,287	1	260	2,540	12.0	422.5	422.5	0.0
	AH	44,367	1	254	2,757	11.1	425.5	425.6	0.1
	AI	45,142	1	394	4,284	7.1	428.1	428.1	0.0
	AJ	46,646	1	349	3,269	9.0	431.4	431.4	0.0
	AK	48,141	1	408	3,808	7.7	436.1	436.2	0.1
	AL	49,249	1	273	1,874	15.7	438.6	438.6	0.0
	AM	49,929	1	318	4,219	7.0	443.2	443.2	0.0
	AN	51,029	1	212	1,602	18.4	443.7	443.7	0.0
	AO	15,500	2	274	1,973	10.5	2,810.4	2,811.4	1.0
	AP	15,950	2	297	1,591	13.0	2,814.0	2,814.0	0.0
	AQ	16,370	2	284	1,908	10.9	2,817.5	2,817.7	0.2
	AR	16,825	2	231	1,467	14.1	2,820.4	2,820.4	0.0
	AS	17,282	2	184	1,352	15.3	2,825.6	2,825.6	0.0
	AT	17,762	2	296	2,122	9.8	2,830.8	2,830.8	0.0
	AU	18,116	2	205	1,424	14.6	2,835.2	2,835.2	0.0
	AV	18,586	2	592	2,326	8.9	2,840.7	2,840.7	0.0
	AW	19,056	2	321	1,611	12.9	2,844.7	2,844.7	0.0
	AX	19,559	2	387	1,958	10.6	2,849.8	2,849.8	0.0
	AY	20,046	2	178	1,217	15.0	2,855.6	2,855.6	0.0
	AZ	20,501	2	318	1,860	9.8	2,860.4	2,860.4	0.0

¹Feet Above Upstream Face of Interstate Highway 15 Bridge
²Feet Above Confluence With Witch Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SANTA YSABEL CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Santa Ysabel Creek (Cont'd)	21,011	267	1,492	12.2	2,866.3	2,866.3	2,866.3	0.0	
	21,372	199	1,251	14.6	2,870.8	2,870.8	2,870.8	0.0	
	21,847	154	1,176	15.5	2,883.1	2,883.1	2,883.1	0.0	
	22,191	260	1,353	13.5	2,887.4	2,887.4	2,887.4	0.0	
	22,541	142	1,124	16.2	2,894.0	2,894.0	2,894.0	0.0	
	22,901	335	1,669	10.9	2,898.3	2,898.3	2,898.3	0.0	
	23,351	149	971	14.5	2,903.4	2,903.4	2,903.4	0.0	
	23,591	301	1,281	11.0	2,907.3	2,907.3	2,907.3	0.0	
	23,851	38	615	22.9	2,921.3	2,921.3	2,921.3	0.0	
	23,881	77	1,382	10.2	2,929.8	2,929.8	2,929.8	0.0	
	23,951	407	6,366	2.2	2,930.0	2,930.0	2,931.0	1.0	
	24,933	135	952	14.8	2,939.1	2,939.1	2,939.1	0.0	
	25,279	101	871	16.2	2,950.1	2,950.1	2,950.1	0.0	
	25,669	132	941	15.0	2,957.7	2,957.7	2,957.7	0.0	
	26,059	250	1,203	11.7	2,968.0	2,968.0	2,968.2	0.2	
	26,509	327	1,318	10.7	2,980.1	2,980.1	2,980.1	0.0	
26,809	124	919	15.3	2,992.9	2,992.9	2,992.9	0.0		

¹Feet Above Confluence With Witch Creek

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE †	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE		
(FEET NGVD)										
San Vicente Creek										
A	0	1,059	3,472	4.6	411.7	411.7	411.7	0.0		
B	250	1,234	3,178	5.0	412.5	412.5	412.6	0.1		
C	570	1,224	3,446	4.6	413.4	413.4	413.7	0.3		
D	1,120	1,479	4,130	3.9	415.1	415.1	415.4	0.3		
E	1,680	1,230	3,654	4.4	416.8	416.8	417.5	0.7		
F	2,220	1,212	4,569	3.5	418.1	418.1	419.1	1.0		
G	2,670	1,221	4,008	4.0	419.3	419.3	420.0	0.7		
H	3,405	1,731	4,294	3.7	421.2	421.2	422.0	0.8		
I	3,925	915	3,152	5.1	423.1	423.1	424.0	0.9		
J	4,425	804	3,698	4.3	425.2	425.2	426.1	0.9		
K	4,795	971	3,688	4.3	426.3	426.3	427.2	0.9		
L	5,255	1,071	3,901	4.1	427.8	427.8	428.7	0.9		
M	5,685	1,210	3,819	4.2	429.1	429.1	430.0	0.9		
N	5,885	1,230	3,590	4.5	429.7	429.7	430.6	0.9		
O	6,085	1,102	3,511	4.6	430.5	430.5	431.4	0.9		
P	6,405	1,207	3,903	4.1	431.5	431.5	432.4	0.9		
Q	7,025	934	2,602	6.2	433.5	433.5	434.3	0.8		
R	7,540	1,224	3,776	4.2	435.8	435.8	436.8	1.0		
S	8,280	1,301	4,126	3.9	437.9	437.9	438.8	0.9		
T	8,480	1,268	3,591	4.5	438.4	438.4	439.3	0.9		
U	8,670	1,315	4,142	3.9	439.4	439.4	440.0	0.6		
V	9,070	1,128	3,412	3.8	440.7	440.7	441.6	0.9		
W	9,720	948	2,473	5.3	442.2	442.2	443.1	0.9		
X	10,460	994	3,500	3.7	444.9	444.9	445.8	0.9		
Y	10,830	860	2,982	4.4	447.1	447.1	448.0	0.9		
Z	11,130	758	2,662	4.9	447.9	447.9	448.8	0.9		

† Feet Above Cross Section A

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET ABOVE)	WITH FLOODWAY	INCREASE	
San Vicente Creek (Cont'd)									
AA	11,460	666	2,339	5.6	449.0	449.0	449.9	0.9	
AB	11,850	702	2,551	5.1	450.4	450.4	451.4	1.0	
AC	12,090	699	2,432	5.3	451.3	451.3	452.3	1.0	
AD	12,310	580	2,828	4.6	452.2	452.2	453.1	0.9	
AE	12,475	605	2,850	4.6	452.7	452.7	453.6	0.9	
AF	12,630	595	2,730	4.8	453.3	453.3	454.2	0.9	
AG	12,800	559	2,397	5.4	454.1	454.1	455.0	0.9	
AH	13,000	397	2,155	6.0	455.1	455.1	456.0	0.9	
AI	13,365	828	3,361	3.9	456.2	456.2	457.2	1.0	
AJ	13,855	303	1,182	11.0	460.9	460.9	461.2	0.3	
AK	14,105	387	3,734	3.5	463.1	463.1	463.5	0.4	
AL	14,325	194	1,373	9.5	463.1	463.1	463.5	0.4	
AM	15,035	133	701	14.4	469.8	469.8	469.9	0.1	

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 SAN VICENTE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET + NGVD)	WITH FLOODWAY	INCREASE
Slaughterhouse Creek	A	1,800	726	3.4	440.8	440.8	441.8	1.0
	B	2,875	886	2.8	448.0	448.0	448.5	0.5
	C	3,005	1,260	1.9	455.2	455.2	455.2	0.0
	D	3,415	81	5.1	455.4	455.4	455.6	0.2
	E	3,846	84	8.1	455.7	455.7	456.0	0.3
	F	3,927	131	4.9	459.7	459.7	460.1	0.4
	G	4,229	126	3.9	460.6	460.6	460.9	0.3
	H	4,433	104	5.9	460.7	460.7	461.1	0.4
	I	4,543	131	6.8	461.1	461.1	461.6	0.5
	J	4,652	148	4.3	461.5	461.5	462.5	1.0
	K	4,687	134	5.8	461.7	461.7	462.5	0.8
	L	5,247	135	9.3	468.7	468.7	468.7	0.0
	M	5,601	45	222	11.0	471.0	471.0	0.0
	N	5,971	37	228	8.5	475.7	475.7	0.2
	O	6,688	48	204	9.5	488.2	488.2	0.8
	P	6,891	44	191	10.2	494.2	494.2	0.5
	Q	7,374	63	221	8.8	504.8	505.3	0.5
R	7,654	42	190	10.2	507.4	508.2	0.8	
S	7,919	83	260	7.5	513.9	514.8	0.9	
T	8,188	57	201	9.7	519.8	520.0	0.2	
U	8,492	31	161	12.0	527.1	527.5	0.4	
V	8,777	36	161	12.1	534.9	535.2	0.3	
W	9,177	63	220	8.8	546.0	546.2	0.2	

¹Feet Above Confluence With San Vicente Creek

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Soledad Canyon	0	299	3,230	7.1	10.8	10.8	10.8	0.0	
A	1,060	1,459	14,582	1.6	11.8	11.8	11.8	0.0	
B	1,510	1,490	11,041	2.1	11.8	11.8	11.8	0.0	
C	2,080	1,320	8,236	2.8	11.8	11.8	11.8	0.0	
D	2,530	1,290	10,649	2.2	12.0	12.0	12.2	0.2	
E	3,430	1,320	12,044	1.9	12.0	12.0	12.3	0.3	
F	4,340	1,610	13,502	1.7	12.1	12.1	12.4	0.3	
G	5,090	1,830	11,040	2.1	12.1	12.1	12.4	0.3	
H	5,440	2,009	13,024	1.8	12.2	12.2	12.5	0.3	
I	5,870	1,970	16,383	1.4	12.2	12.2	12.6	0.4	
J	6,320	1,750	14,397	1.6	12.3	12.3	12.7	0.4	
K	6,480	1,729	14,479	1.3	12.3	12.3	12.7	0.4	
L	7,120	1,510	11,307	1.7	12.3	12.3	12.7	0.4	
M	8,460	1,053	4,979	3.9	12.3	12.3	12.7	0.4	
N	8,950	988	5,234	3.7	12.9	12.9	13.2	0.3	
O	9,490	1,164	6,140	3.2	13.5	13.5	13.7	0.2	
P	9,940	935	3,669	5.3	13.9	13.9	14.1	0.2	
Q	10,930	1,154	3,331	5.8	17.5	17.5	17.5	0.0	
R	11,095	1,154	5,738	3.4	18.2	18.2	18.2	0.0	
S	11,840	639	2,769	7.0	19.0	19.0	19.0	0.0	
T	12,590	520	3,539	5.5	22.8	22.8	22.9	0.1	
U	13,220	548	4,483	4.3	24.2	24.2	24.3	0.1	
V	13,510	496	3,548	5.5	24.6	24.6	24.7	0.1	
W	14,240	600	3,524	5.5	26.2	26.2	26.8	0.6	
X	14,673	790	4,661	4.2	27.4	27.4	28.0	0.6	
Y	15,100	700	5,258	3.7	32.6	32.6	33.5	0.9	
Z									

¹Feet Above North Torrey Pines Road

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SOLEDAD CANYON

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE 1	WIDTH (FEET)	SECTION AREA (SQ. FT.)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCHES	
Soledad Canyon (Cont'd)									
AA	15,740	1,033	5,383	3.6	33.4	33.4	34.1	0.7	
AB	16,140	1,075	6,622	2.9	34.1	34.1	34.6	0.5	
AC	16,520	1,163	6,695	2.9	34.4	34.4	34.9	0.5	
AD	16,810	789	4,278	4.6	34.7	34.7	35.1	0.4	
AE	17,120	386	1,784	10.9	36.2	36.2	36.2	0.0	
AF	17,420	373	2,273	2.9	38.7	38.7	39.1	0.4	
AG	17,620	362	1,379	4.9	38.7	38.7	39.1	0.4	
AH	18,060	352	1,813	3.7	40.5	40.5	40.5	0.0	
AI	18,160	296	1,475	4.5	40.5	40.5	40.5	0.0	
AJ	18,340	146	644	10.4	40.5	40.5	40.5	0.0	
AK	18,850	310	1,324	5.1	43.5	43.5	43.5	0.0	
AL	19,177	478	1,707	3.9	44.0	44.0	44.0	0.0	
AM	19,427	656	2,247	3.0	44.6	44.6	44.6	0.0	
AN	19,630	553	1,204	5.6	45.7	45.7	45.7	0.0	
AO	20,220	335	1,005	6.7	51.0	51.0	51.0	0.0	
AP	20,805	556	1,196	5.6	57.7	57.7	57.7	0.0	
AQ	21,230	354	1,008	6.6	60.2	60.2	60.2	0.0	
AR	21,480	421	1,495	4.5	62.3	62.3	62.3	0.0	
AS	21,690	286	1,074	6.2	63.2	63.2	63.2	0.0	

1 Feet Above North Torrey Pines Road

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SOLEDAD CANYON

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Branch Poway Creek	A	65	3,333	1.1	552.73	552.4	552.4	0.0
	B	895	1,032	3.3	555.43	554.9	555.1	0.2
	C	1,915	585	5.9	561.93	561.8	561.8	0.0
	D	2,895	258	7.0	573.8	573.8	574.2	0.4
	E	3,615	117	236	7.6	584.5	584.5	584.5

¹Feet Above Confluence With Poway Creek and North Branch Poway Creek
²Width/Total Width of North and South Branch Combined Floodway
³Elevations Controlled By Flooding From North Branch Poway Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

T A B L E 8

FLOODWAY DATA

SOUTH BRANCH POWAY CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
South Fork Moosa Canyon Creek	A	350	1,547	3.4	440.4	440.4	441.4	1.0	
	B	561	703	7.4	443.2	443.2	443.8	0.6	
	C	3,406	431	12.1	467.9	467.9	467.9	0.0	
	D	3,942	995	4.8	472.9	472.9	473.5	0.6	
	E	4,829	839	5.7	483.7	483.7	484.5	0.8	
	F	5,260	867	7.0	485.6	485.6	486.2	0.6	
	G	5,611	519	9.2	487.3	487.3	487.5	0.2	
	H	6,470	603	11.4	494.9	494.9	494.9	0.0	
	I	7,812	319	12.5	507.2	507.2	507.2	0.0	
	J	8,024	46	14.2	509.5	509.5	509.5	0.0	
	K	8,520	198	7.3	515.0	515.0	515.4	0.4	
	L	8,920	190	654	4.9	518.6	518.9	0.3	
	M	9,408	45	283	11.3	520.8	520.8	0.0	
	N	9,697	30	266	12.0	524.8	524.9	0.1	
	O	10,841	38	205	14.6	533.0	534.0	1.0	
	P	11,176	49	272	11.0	535.6	535.6	0.0	
Q	11,287	100	302	9.9	539.0	539.0	0.0		

¹Feet Above Confluence with Moosa Canyon Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
South Las Chollas Creek	I	5,410	468	11.3	25.5	25.5	26.5	1.0
	J	6,000	441	12.0	29.8	29.8	30.4	0.6
	K	6,700	1,557	3.4	35.6	35.6	36.0	0.4
	L	7,300	766	6.9	36.9	36.9	37.0	0.1
	M	7,800	680	7.8	39.6	39.6	39.8	0.2
	N	8,210	634	8.4	41.5	41.5	42.5	1.0
	O	8,800	1,037	5.1	46.9	46.9	47.6	0.7
	P	9,620	707	7.5	50.2	50.2	51.0	0.8
	Q	10,730	523	10.1	57.0	57.0	57.6	0.6
	R	11,600	824	6.4	69.6	69.6	70.3	0.7
	S	12,330	611	8.7	70.5	70.5	71.0	0.5
	T	13,380	666	4.6	81.2	81.2	81.7	0.5
	U	13,690	1,157	4.6	83.4	83.4	84.2	0.8
	V	14,330	929	5.7	86.8	86.8	87.4	0.6
	W	15,230	888	6.0	92.5	92.5	93.2	0.7
	X	16,280	618	3.1	111.6	111.6	112.3	0.7
	Y	16,730	309	6.1	111.7	111.7	112.3	0.6
	Z	17,620	505	3.8	122.9	122.9	123.1	0.2
	AA	18,270	159	11.9	130.2	130.2	130.3	0.1
	AD	19,930	34	9.3	153.8	153.8	154.6	0.8
	AE	20,670	36	10.4	166.7	166.7	167.3	0.6
	AF	21,350	38	12.3	180.1	180.1	180.8	0.7
	AG	22,510	23	12.6	199.6	199.6	199.6	0.0
	AH	23,550	20	8.5	216.7	216.7	217.5	0.8
	AI	24,650	61	7.1	236.2	236.2	237.2	1.0
	AJ	25,680	53	11.6	251.8	251.8	252.5	0.7

¹Feet Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SOUTH LAS CHOLLAS CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE (FEET)	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
South Tributary to Santa Maria Creek	A	1,540	393	2,670	2.2	1,367.6	1,367.6	1,367.6	0.0
	B	2,163	444	2,687	2.2	1,367.8	1,367.8	1,367.8	0.0
	C	3,047	377	1,583	3.7	1,368.1	1,368.1	1,369.0	0.9
	D	3,991	414	1,323	4.4	1,370.1	1,370.1	1,370.5	0.4
	E	4,525	310	1,082	5.4	1,371.7	1,371.7	1,372.7	1.0
	F	5,514	405	1,498	3.9	1,375.3	1,375.3	1,376.3	1.0
	G	6,142	706	1,476	3.9	1,376.3	1,376.3	1,377.2	0.9
	H	6,272	790	3,611	1.6	1,379.5	1,379.5	1,379.7	0.2
	I	7,132	567	960	3.8	1,379.7	1,379.7	1,380.7	1.0

1 Feet Above Confluence With Santa Maria Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH ² (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Spring Valley Creek A	4,855	291	982	3.7	308.0	308.0	308.4	0.4

1feet From Jamacha Road

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SPRING VALLEY CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET MGD)	WITH FLOODWAY	INCREASE
Steele Canyon Creek	A	480	420	7.1	313.2	313.2	314.2	1.0
	B	855	514	5.8	318.1	318.1	318.8	0.7
	C	1,270	368	8.1	324.9	324.9	325.7	0.8
	D	1,755	435	6.8	334.1	334.1	334.8	0.7
	E	2,160	46	8.0	343.1	343.1	343.5	0.4
	F	2,480	56	6.2	349.6	349.6	350.5	0.9
	G	2,880	70	7.0	356.1	356.1	356.8	0.7
	H	3,280	72	7.6	364.1	364.1	365.1	1.0
	I	3,690	72	8.1	374.5	374.5	375.5	1.0
	J	4,100	74	7.0	385.1	385.1	386.0	0.9
	K	4,525	103	5.8	393.9	393.9	394.9	1.0
	L	4,850	72	6.6	399.9	399.9	400.9	1.0
	M	5,240	98	6.5	409.8	409.8	410.8	1.0
	N	5,635	78	6.3	419.4	419.4	420.4	1.0
	O	6,050	84	7.5	427.7	427.7	428.7	1.0
	P	6,395	64	9.4	431.1	431.1	431.9	0.8
	Q	6,800	82	307	439.3	439.3	440.2	0.9
	R	7,150	43	228	446.3	446.3	446.7	0.4
	S	7,545	46	233	456.0	456.0	456.0	0.0
	T	7,890	59	252	460.1	460.1	460.1	0.0
	U	8,270	70	268	470.2	470.2	470.6	0.4
	V	8,314	90	403	473.8	473.8	473.8	0.0
	W	8,589	60	371	475.3	475.3	476.2	0.9
	X	8,904	69	281	482.2	482.2	482.5	0.3
	Y	8,954	120	445	484.3	484.3	484.7	0.4
	Z	9,234	130	423	490.7	490.7	491.0	0.3

¹Feet Above Confluence With Sweetwater River

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

STEELE CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Steele Canyon Creek (Cont'd)								
AA	9,279	150	568	5.2	490.7	490.7	491.7	1.0
AB	9,599	70	198	9.2	498.0	498.0	498.0	0.0
AC	9,659	79	508	3.6	499.2	499.2	499.5	0.3
AD	9,984	100	265	6.9	505.5	505.5	506.1	0.6
AE	10,024	100	289	6.3	506.8	506.8	507.6	0.8
AF	10,454	47	202	9.0	512.9	512.9	513.2	0.3
AG	10,859	47	178	10.2	525.8	525.8	526.0	0.2
AH	11,284	51	223	8.2	533.1	533.1	533.5	0.4
AI	11,674	64	195	9.3	540.1	540.1	540.4	0.3
AJ	12,079	45	171	10.6	550.4	550.4	551.2	0.8
AK	12,499	120	410	4.4	556.4	556.4	557.3	0.9
AL	12,924	44	162	11.2	564.7	564.7	564.7	0.0
AM	13,314	48	177	10.3	573.9	573.9	574.9	1.0
AN	13,714	33	149	12.2	589.9	589.9	590.1	0.2
AO	14,049	55	287	6.3	598.9	598.9	599.8	0.9
AP	14,449	68	332	5.5	606.4	606.4	606.9	0.5
AQ	14,874	54	305	6.0	615.2	615.2	615.7	0.5
AR	15,214	80	418	4.4	620.9	620.9	621.6	0.7
AS	15,609	47	210	8.6	629.8	629.8	630.7	0.9
AT	15,994	34	216	8.4	646.8	646.8	647.3	0.5
AU	16,389	41	160	11.4	677.9	677.9	677.9	0.0
AV	16,604	48	316	5.8	683.9	683.9	684.7	0.8
AW	17,029	51	253	7.2	693.5	693.5	694.5	1.0
AX	17,394	42	269	6.8	704.2	704.2	704.6	0.4
AY	17,779	41	196	9.3	719.3	719.3	719.4	0.1
AZ	18,174	43	288	6.3	730.6	730.6	731.0	0.4

¹Feet Above Confluence With Sweetwater River

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 STEELE CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	INSTANT	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Steele Canyon Creek (Cont'd)								
BA	18,609	70	214	7.9	745.5	745.5	745.5	0.0
BB	18,664	77	216	7.8	747.2	747.2	747.2	0.0
BC	19,024	76	393	4.3	753.9	753.9	754.9	1.0
BD	19,089	110	246	6.9	754.8	754.8	754.8	0.0
BE	19,359	170	423	4.0	762.9	762.9	763.9	1.0
BF	19,424	150	508	3.3	764.0	764.0	764.8	0.8
BG	19,694	112	670	2.5	765.3	765.3	766.1	0.8
BH	20,069	55	178	9.5	770.9	770.9	771.0	0.1
BI	20,114	60	240	7.0	773.2	773.2	773.7	0.5
BJ	20,554	52	315	5.4	781.6	781.6	781.8	0.2
BK	20,579	61	231	7.3	781.8	781.8	782.0	0.2
BL	20,939	23	167	10.1	790.7	790.7	791.5	0.8
BM	21,364	52	269	6.3	802.9	802.9	803.9	1.0

¹Feet Above Confluence With Sweetwater River

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE	
Stevenson Creek	900	175	226	4.0	731.7	731.7	732.2	0.5	
A	1,395	240	195	4.6	737.3	737.3	737.9	0.6	
B	1,555	207	248	3.6	739.6	739.6	740.4	0.8	
C	1,773	165	199	4.5	744.6	744.6	745.1	0.5	
D	2,103	195	208	4.3	749.8	749.8	750.5	0.7	
E	2,463	143	215	4.2	758.6	758.6	759.3	0.7	
F	2,733	126	199	4.5	765.1	765.1	765.2	0.1	
G	2,930	99	142	6.3	769.8	769.8	770.4	0.6	
H	3,365	103	161	5.6	780.7	780.7	780.7	0.0	
I	3,780	129	173	5.2	789.9	789.9	790.5	0.6	
J	3,870	127	254	3.5	792.2	792.2	793.2	1.0	
K	4,240	53	105	8.6	800.1	800.1	800.1	0.0	
L	4,809	50	107	8.4	810.9	810.9	811.0	0.1	
M	4,858	60	233	3.9	812.9	812.9	813.6	0.7	
N	5,060	44	103	8.7	814.9	814.9	814.9	0.0	
O									

¹Feet Above Confluence With Twin Oaks Valley Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Sweetwater River (Above Reservoir)								
A	0	1,133	16,651	1.8	247.5	247.5	248.5	1.0
B	1,520	1,015	7,315	4.0	247.7	247.7	248.6	0.9
C	2,070	1,075	5,696	5.2	248.1	248.1	248.1	0.0
D	3,092	491	3,743	7.9	249.2	249.2	249.2	0.0
E	5,507	247	2,435	12.1	256.1	256.1	256.3	0.2
F	8,097	103	1,406	21.0	266.6	266.6	266.6	0.0
G	8,420	183	1,633	18.1	270.9	270.9	270.9	0.0
H	10,110	243	2,587	11.4	280.5	280.5	280.6	0.1
I	10,970	246	2,074	14.2	287.1	287.1	287.2	0.1
J	12,057	413	2,512	11.7	295.8	295.8	295.8	0.0
K	13,657	720	5,060	5.8	303.7	303.7	303.9	0.2
L	15,320	522	6,012	4.9	316.6	316.6	316.6	0.0
M	15,725	530	5,558	5.3	317.0	317.0	317.0	0.0
N	17,366	664	5,288	5.6	320.1	320.1	320.2	0.1
O	17,869	720	6,617	4.5	321.3	321.3	321.6	0.3
P	19,309	1,025	5,378	5.5	327.0	327.0	327.1	0.1
Q	21,632	960	4,695	6.3	334.5	334.5	334.6	0.1
R	24,273	749	4,140	7.1	343.4	343.4	343.7	0.3
S	25,510	577	3,678	8.0	348.0	348.0	348.0	0.0
T	26,529	1,150	3,209	9.2	351.4	351.4	351.5	0.1
U	27,732	750	3,967	7.4	360.8	360.8	361.0	0.2
V	27,749	750	4,040	7.3	360.9	360.9	361.1	0.2
W	30,221	830	2,937	10.0	372.8	372.8	372.9	0.1
X	30,784	230	1,904	15.5	376.0	376.0	376.0	0.0
Y	30,951	315	4,635	6.4	380.2	380.2	380.4	0.2

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SWEETWATER RIVER (ABOVE RESERVOIR)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Sweetwater River (Above Reservoir) (Cont'd)	Z	33,190	2,498	11.8	385.1	385.1	385.1	0.0
	AA	33,835	7,741	3.8	388.0	388.0	388.4	0.4
	AB	34,555	833	6.7	388.3	388.3	388.6	0.3
	AC	35,657	440	8.1	397.8	397.8	398.1	0.3
	AD	35,751	455	6.9	398.7	398.7	399.0	0.3
	AE	37,315	561	7.5	400.4	400.4	400.8	0.4
	AF	37,802	572	10.1	402.0	402.0	402.1	0.1
	AG	40,078	620	9.4	415.0	415.0	415.0	0.0
	AH	41,444	653	8.4	419.2	419.2	419.2	0.0
	AI	42,384	344	7.3	423.6	423.6	423.6	0.0
	AJ	43,748	255	12.0	429.6	429.6	429.7	0.1
	AK	45,052	208	13.2	436.1	436.1	436.1	0.0
	AL	45,638	215	13.0	437.5	437.5	437.6	0.1
	AM	47,033	223	11.2	445.2	445.2	445.2	0.0
	AN	47,751	223	13.1	447.2	447.2	447.2	0.0
	AO	48,150	235	12.2	450.1	450.1	450.1	0.0
	AP	48,390	215	9.0	452.8	452.8	452.8	0.0
	AQ	49,083	280	8.2	455.1	455.1	455.1	0.0
	AR	50,004	260	8.1	459.9	459.9	459.9	0.0
	AS	51,401	270	11.7	460.5	460.5	460.9	0.4
AT	54,209	395	6,427	4.7	476.9	476.9	477.1	0.2
AU	55,346	851	3,171	9.3	481.3	481.3	481.3	0.0
AV	55,481	878	3,306	8.9	482.1	482.1	482.1	0.0
AW	55,645	570	4,232	7.0	485.0	485.0	485.0	0.0

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA
 SWEETWATER RIVER (ABOVE RESERVOIR)

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION				
CROSS SECTION	DISTANCE †	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Above Reservoir) (Cont'd)	AX	56,845	642	2,635	11.2	488.8	488.8	488.9	488.9	0.1
	AY	57,545	1,354	4,903	6.0	493.9	493.9	494.0	494.0	0.1
	AZ	58,515	989	3,822	7.7	498.7	498.7	498.7	498.7	0.0
	BA	59,445	636	2,740	10.2	504.3	504.3	504.4	504.4	0.1
	BB	60,775	883	4,576	6.1	513.4	513.4	513.5	513.5	0.1
	BC	61,325	669	3,196	8.8	517.4	517.4	517.4	517.4	0.0
	BD	62,085	494	3,240	8.6	520.8	520.8	520.8	520.8	0.0
	BE	63,235	619	3,295	7.9	524.1	524.1	524.8	524.8	0.7
	BF	64,755	265	1,837	14.1	535.9	535.9	535.9	535.9	0.0
	BG	65,655	477	3,344	7.8	541.5	541.5	542.5	542.5	1.0
	BH	66,705	425	2,266	11.5	547.3	547.3	547.3	547.3	0.0
BI	67,625	346	2,273	11.4	553.1	553.1	553.2	553.2	0.1	

†Feet Above Cross Section A

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET MGD)	WITH FLOODWAY	INCREASE	
Sweetwater River (At National City)									
A	2.020	1,450	9,812	3.5	20.2	20.2	20.3	0.1	
B	2.130	1,580	10,262	3.4	20.4	20.4	20.7	0.3	
C	2.400	1,385	8,530	4.1	21.4	21.4	22.2	0.8	
D	3.490	380	4,508	7.8	34.9	34.9	35.3	0.4	
E	3.580	380	4,145	8.4	35.1	35.1	35.6	0.5	
F	3.720	390	4,428	7.9	36.6	36.6	36.7	0.1	
G	3.850	876	8,117	4.3	37.3	37.3	37.9	0.6	
H	4.113	632	5,929	5.9	38.4	38.4	38.7	0.3	
I	4.219	885	6,281	6.4	41.0	41.0	41.0	0.0	
J	5.603	753	4,083	12.3	61.2	61.2	61.2	0.0	
K	5.728	570	3,823	9.2	64.7	64.7	64.7	0.0	
L	5.779	725	4,822	9.8	66.1	66.1	66.1	0.0	
M	5.839	533	3,645	10.3	66.4	66.4	66.5	0.1	
N	6.005	473	3,509	10.2	69.5	69.5	69.6	0.1	
O	6.142	1,002	5,209	12.2	71.9	71.9	72.0	0.1	
P	6.349	1,101	4,433	10.7	72.9	72.9	73.6	0.7	
Q	6.510	969	4,071	11.1	76.1	76.1	76.1	0.0	
R	6.688	1,084	4,041	13.9	78.8	78.8	79.0	0.2	
S	6.946	854	3,503	15.5	83.9	83.9	83.9	0.0	

¹Miles Above Mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

SWEETWATER RIVER (AT NATIONAL CITY)

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			INCREASE
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY		
Sweetwater River (Descanso Area)									
A	0	204	1,470	13.8	3,306.0	3,306.0	3,306.0	0.0	
B	280	153	1,242	16.3	3,314.3	3,314.3	3,314.3	0.0	
C	535	139	1,196	17.0	3,322.6	3,322.6	3,322.6	0.0	
D	995	84	1,021	19.9	3,342.8	3,342.8	3,342.8	0.0	
E	1,555	186	1,793	11.3	3,354.5	3,354.5	3,354.5	0.9	
F	1,790	151	1,731	11.7	3,357.0	3,357.0	3,357.3	0.3	
G	2,420	266	2,588	7.8	3,361.2	3,361.2	3,362.0	0.8	
H	2,720	273	1,802	11.3	3,361.9	3,361.9	3,362.9	1.0	
I	3,180	217	2,235	9.1	3,367.1	3,367.1	3,367.1	0.0	
J	3,610	233	2,245	9.0	3,368.9	3,368.9	3,369.0	0.1	
K	3,920	149	1,237	16.4	3,377.4	3,377.4	3,377.4	0.0	
L	3,980	155	1,451	14.0	3,379.6	3,379.6	3,379.6	0.0	
M	4,055	189	2,204	9.2	3,380.9	3,380.9	3,380.9	0.0	
N	4,365	288	3,498	5.8	3,381.9	3,381.9	3,381.9	0.0	
O	4,765	376	4,084	5.0	3,382.3	3,382.3	3,382.4	0.1	
P	5,215	312	3,224	6.3	3,382.4	3,382.4	3,382.5	0.1	
Q	5,945	391	2,833	7.2	3,383.1	3,383.1	3,383.4	0.3	
R	6,095	353	2,388	8.5	3,383.3	3,383.3	3,383.5	0.2	
S	6,635	454	3,227	6.3	3,386.5	3,386.5	3,387.3	0.8	
T	7,075	435	2,892	7.0	3,388.7	3,388.7	3,389.4	0.7	
U	7,455	379	2,793	7.3	3,391.0	3,391.0	3,391.7	0.7	
V	7,675	473	3,452	5.9	3,392.1	3,392.1	3,392.9	0.8	
W	8,055	559	4,293	3.5	3,393.3	3,393.3	3,394.1	0.8	
X	8,195	518	3,333	4.2	3,393.4	3,393.4	3,394.2	0.8	
Y	8,445	397	1,501	9.3	3,394.2	3,394.2	3,394.3	0.1	

¹Feet Above Cross Section A

FLOODWAY DATA

SWEETWATER RIVER (DESCANSO AREA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Sweetwater River (Descanso Area) (Cont'd)	Z	75	928	16.3	3,403.0	3,403.0	3,403.0	0.0
	AA	9,045	929	16.3	3,403.0	3,403.0	3,403.0	0.0
	AB	9,095	292	5.6	3,406.7	3,406.7	3,407.7	1.0
	AC	9,615	320	5.0	3,407.1	3,407.1	3,408.1	1.0
	AD	9,935	361	5.5	3,407.6	3,407.6	3,408.6	1.0
	AE	10,385	310	10.8	3,408.5	3,408.5	3,408.8	0.3
	AF	10,875	225	11.2	3,414.8	3,414.8	3,415.6	0.8
	AG	11,667	314	7.6	3,419.6	3,419.6	3,419.6	0.0
	AH	12,294	314	11.6	3,421.2	3,421.2	3,421.2	0.0
	AI	12,360	233	12.4	3,427.3	3,427.3	3,427.3	0.0
	AJ	12,866	142	14.9	3,429.4	3,429.4	3,429.6	0.2
	AK	13,086	375	6.5	3,433.1	3,433.1	3,434.1	1.0
	AL	13,416	306	7.4	3,434.0	3,434.0	3,434.8	0.8
	AM	13,566	569	4.8	3,436.2	3,436.2	3,436.8	0.6
	AN	14,336	230	11.2	3,442.8	3,442.8	3,443.3	0.5
	AO	15,076	172	14.2	3,447.8	3,447.8	3,448.1	0.3
	AP	15,746	439	6.4	3,452.5	3,452.5	3,453.5	1.0
AQ	16,346	330	10.4	3,457.8	3,457.8	3,457.9	0.1	
AR	16,896	146	13.0	3,459.2	3,459.2	3,459.6	0.4	
AS	17,196	147	12.9	3,462.3	3,462.3	3,462.8	0.5	
AT	17,726	126	13.5	3,465.0	3,465.0	3,465.3	0.3	
AU	18,156	141	10.7	3,468.1	3,468.1	3,468.4	0.3	
AV	18,586	171	13.8	3,474.3	3,474.3	3,474.6	0.3	
AW	19,176	100	14.0	3,476.9	3,476.9	3,476.9	0.0	
	19,496							

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER RIVER (DESCANSO AREA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Sweetwater River (Descanso Area) (Cont'd)	AX	20,116	834	18.1	3,489.6	3,489.6	3,489.6	0.0
	AY	20,676	855	17.7	3,509.1	3,509.1	3,509.1	0.0
	AZ	21,136	935	16.1	3,518.9	3,518.9	3,518.9	0.0
	BA	21,386	826	18.3	3,531.8	3,531.8	3,531.8	0.0
	BB	21,896	741	20.4	3,555.2	3,555.2	3,555.2	0.0
	BC	22,131	788	19.2	3,574.2	3,574.2	3,574.2	0.0
	BD	22,741	756	20.0	3,596.1	3,596.1	3,596.3	0.2
	BE	23,451	849	17.8	3,631.5	3,631.5	3,631.5	0.0
	BF	24,071	87	16.3	3,644.3	3,644.3	3,644.3	0.0
	BG	24,651	114	11.1	3,651.9	3,651.9	3,652.9	1.0

¹Feet Above Cross Section A

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

FLOODWAY DATA

SWEETWATER RIVER (DESCANSO AREA)

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET)	(FEET)	(FEET)	(FEET)
Telegraph Canyon Creek								
A	8,667	84	356	6.7	77.8	77.8	78.0	0.2
B	9,440	51	238	10.1	82.7	82.7	83.3	0.6
C	10,225	42	228	10.1	91.7	91.7	91.7	0.0
D	10,635	73	436	5.3	96.0	96.0	96.0	0.0
E	11,082	47	243	9.5	98.7	98.7	99.3	0.6
F	11,428	66	331	6.9	100.2	100.2	101.0	0.8
G	11,998	52	408	5.6	108.7	108.7	108.8	0.1
H	12,590	41	193	11.9	110.4	110.4	110.4	0.0
I	13,203	52	430	5.4	121.1	121.1	121.1	0.0
J	13,560	78	369	6.2	127.1	127.1	127.1	0.0
K	14,145	128	850	2.6	128.0	128.0	128.2	0.2
L	14,590	40	181	12.2	128.0	128.0	128.2	0.2
M	15,037	88	257	8.6	132.6	132.6	133.6	1.0
N	15,667	40	181	12.1	144.2	144.2	144.2	0.0
O	16,440	33	172	12.8	149.4	149.4	150.4	1.0
P	33,465	131	305	3.2	343.6	343.6	344.6	1.0
Q	35,061	199	254	6.3	361.7	361.7	361.7	0.0
R	35,820	118	244	8.4	377.3	377.3	377.5	0.2
S	36,920	149	208	6.7	399.4	399.4	399.4	0.0
T	41,302	89	159	7.4	424.9	424.9	424.9	0.0
U	42,355	206	259	5.6	438.0	438.0	438.2	0.2
V	43,178	30	135	8.7	450.7	450.7	451.3	0.6
W	43,382	73	459	2.7	456.7	456.7	456.7	0.0
X	45,200	188	293	3.3	475.6	475.6	475.6	0.0
Y	46,286	92	542	1.4	496.1	496.1	496.2	0.1
Z	48,645	57	81	6.9	529.6	529.6	529.6	0.0

¹Feet Above Mouth

FLOODWAY DATA

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

TELEGRAPH CANYON CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET/NGVD)	WITH FLOODWAY	INCREASE
Tijuana River								
A	2,710	4,450	16,365	4.6	6.9	6.9	7.6	0.7
B	5,440	5,100	19,082	3.9	12.0	12.0	12.4	0.4
C	10,650	6,900	15,019	5.0	18.6	18.6	18.7	0.1
D	13,805	5,024	17,578	4.3	25.0	25.0	25.3	0.3
E	14,995	5,100	23,451	3.2	28.3	28.3	29.0	0.7
F	18,435	4,600	17,592	4.3	31.9	31.9	32.1	0.2
G	19,815	3,940	17,567	4.3	35.4	35.4	35.6	0.2
H	21,435	3,705	12,592	6.0	39.8	39.8	39.8	0.0
I	23,845	2,400	13,012	5.8	45.4	45.4	45.6	0.2

¹Feet Above Confluence with Oneonta Slough

²Feet Above Pacific Ocean

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

TIJUANA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Tributary to Forester Creek	A	12,300	217	5.3	489.7	489.7	490.7	1.0
	B	13,000	202	5.8	493.5	493.5	493.7	0.2
	C	13,360	385	4.5	496.1	496.1	496.8	0.7
	D	13,970	292	5.9	500.3	500.3	501.2	0.9
	E	14,660	340	2.5	505.3	505.3	506.2	0.9
	F	15,575	402	4.6	509.1	509.1	509.8	0.7
	G	16,285	310	3.8	515.5	515.5	516.2	0.7
	H	16,765	121	7.6	520.8	520.8	521.7	0.9
	I	17,215	205	4.5	525.0	525.0	525.9	0.9
	J	17,635	243	5.8	530.3	530.3	530.7	0.4
	K	18,145	259	4.3	535.5	535.5	535.9	0.4
	L	18,615	127	7.5	540.8	540.8	541.7	0.9
	M	19,185	128	6.6	547.0	547.0	547.3	0.3
	N	19,615	142	5.5	552.3	552.3	552.5	0.2
	O	20,125	55	8.6	560.9	560.9	561.7	0.8

¹Feet Above Confluence With San Diego River

FEDERAL EMERGENCY MANAGEMENT AGENCY
SAN DIEGO COUNTY, CA
 AND INCORPORATED AREAS

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FLOODWAY DATA

TRIBUTARY TO FORESTER CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹ (FEET)	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY (FEET NGVD)	INCREASE
Tributary of South Tributary to Santa Maria Creek	890	295	1,676	1.0	1,379.5	1,379.5	1,379.8	0.3
	1,505	259	1,104	1.5	1,379.6	1,379.6	1,380.6	1.0
	2,265	95	292	5.5	1,381.7	1,381.7	1,382.7	1.0

¹Feet Above Confluence With South Tributary to Santa Maria Creek

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	PERIMETER	WATER SURFACE ELEVATION	WATER SURFACE ELEVATION	WATER SURFACE ELEVATION	WATER SURFACE ELEVATION
Tributary to Sweetwater River									
A	800	109	398	5.2	128.0	128.0	128.0	129.0	1.0
B	1,182	86	239	8.7	131.3	131.3	131.3	131.5	0.2
C	1,372	77	315	6.6	132.9	132.9	132.9	133.2	0.3
D	1,844	108	689	3.0	137.1	137.1	137.1	137.2	0.1
E	2,257	102	808	2.6	147.4	147.4	147.4	147.4	0.0
F	2,716	93	333	6.2	149.6	149.6	149.6	150.0	0.4
G	3,176	90	247	8.4	154.5	154.5	154.5	154.5	0.0
H	3,526	31	160	13.0	165.7	165.7	165.7	165.7	0.0
I	4,161	27	153	13.6	176.7	176.7	176.7	176.7	0.0
J	4,603	42	173	12.0	184.7	184.7	184.7	184.7	0.0
K	4,875	24	146	14.2	192.6	192.6	192.6	192.6	0.0
L	5,141	56	491	4.2	200.5	200.5	200.5	200.5	0.0
M	5,362	59	282	7.3	200.7	200.7	200.7	200.9	0.2
N	5,557	56	210	9.9	205.2	205.2	205.2	205.4	0.2
O	5,872	129	366	5.7	209.4	209.4	209.4	209.5	0.1
P	6,303	79	254	8.1	223.5	223.5	223.5	223.8	0.3
Q	6,828	54	207	10.0	234.6	234.6	234.6	234.6	0.0
R	6,988	45	448	4.6	244.8	244.8	244.8	244.8	0.0
S	7,298	79	337	6.1	245.3	245.3	245.3	245.5	0.2
T	7,648	129	259	8.0	251.4	251.4	251.4	251.4	0.0
U	8,008	87	231	9.0	259.3	259.3	259.3	259.3	0.0
V	8,298	83	222	9.3	267.7	267.7	267.7	267.7	0.0

¹Feet Above Loma Del Sol Drive

FEDERAL EMERGENCY MANAGEMENT AGENCY

**SAN DIEGO COUNTY, CA
AND INCORPORATED AREAS**

FLOODWAY DATA

TRIBUTARY TO SWEETWATER RIVER

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION		
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Twin Oaks Valley Creek								
A	915	400	1,753	4.1	569.6	569.6	570.0	0.4
B	1,928	430	3,625	2.0	579.4	579.4	579.4	0.0
C	2,748	332	1,802	3.9	580.3	580.3	580.4	0.1
D	3,588	360	1,820	3.9	583.6	583.6	583.8	0.2
E	5,227	255	778	9.1	602.9	602.9	603.1	0.2
F	6,357	170	1,172	6.1	606.1	606.1	606.7	0.6
G	7,917	130	1,128	5.9	622.1	622.1	622.6	0.5
H	8,916	155	1,220	5.5	628.8	628.8	629.5	0.7
I	10,929	110	931	7.0	647.2	647.2	647.7	0.5
J	12,158	110	870	7.5	663.1	663.1	663.5	0.4
K	13,658	239	716	9.1	674.4	674.4	674.7	0.3
L	15,203	414	1,151	5.6	688.3	688.3	688.4	0.1
M	16,039	615	1,391	4.7	693.5	693.5	693.6	0.1
N	16,582	701	2,333	2.2	699.3	699.3	699.3	0.0
O	16,932	713	823	6.3	700.6	700.6	701.0	0.4
P	17,040	705	1,291	4.0	702.5	702.5	702.8	0.3
Q	17,089	690	991	5.2	703.0	703.0	703.0	0.0
R	17,359	628	1,292	4.0	705.3	705.3	705.7	0.4
S	17,844	672	1,243	4.2	708.7	708.7	709.3	0.6
T	18,084	800	1,308	3.2	711.0	711.0	711.2	0.2
U	18,264	830	2,287	1.8	715.1	715.1	715.1	0.0
V	18,734	1,040	1,225	3.4	718.2	718.2	718.2	0.0
W	18,994	1,185	1,538	2.7	719.4	719.4	720.3	0.9
X	19,109	1,275	2,342	1.8	722.2	722.2	722.3	0.1
Y	19,199	385	482	5.5	722.3	722.3	722.9	0.6
Z	19,594	253	396	4.4	726.4	726.4	727.4	1.0

¹Feet Above Confluence With San Marcos Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Twin Oaks Valley Creek (Cont'd)								
AA	20,034	247	308	5.7	734.9	734.9	735.5	0.6
AB	30,414	145	314	5.6	739.5	739.5	740.2	0.7
AC	20,554	145	263	6.6	741.6	741.6	742.1	0.5
AD	20,749	181	293	6.0	744.8	744.8	745.0	0.2
AE	21,079	325	368	4.8	749.4	749.4	749.5	0.1
AF	21,500	324	416	4.2	754.8	754.8	755.6	0.8
AG	21,960	339	426	4.1	759.2	759.2	760.1	0.9
AH	22,450	115	243	7.2	768.3	768.3	768.8	0.5
AI	22,605	164	304	5.7	770.5	770.5	771.1	0.6
AJ	22,676	178	300	5.8	771.4	771.4	771.8	0.4
AK	23,215	74	187	9.4	778.5	778.5	778.6	0.1
AL	23,660	98	224	7.8	786.3	786.3	786.7	0.4
AM	24,000	57	187	9.3	790.9	790.9	791.2	0.3
AN	24,155	86	284	6.2	792.6	792.6	793.4	0.8
AO	24,204	89	392	4.5	794.5	794.5	795.5	1.0
AP	24,684	61	177	9.9	803.7	803.7	803.7	0.0
AQ	25,094	65	256	6.8	808.8	808.8	808.8	0.0

¹Feet Above Confluence With San Marcos Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
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FLOODWAY DATA
 TWIN OAKS VALLEY CREEK

FLOODING SOURCE		FLOODWAY				BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	INSTANT 1	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
						(FEET ABOVE)			
Wabash Branch	A	2,060	437	3.7	82.4	82.4	82.6	0.2	
	B	2,430	130	10.7	85.3	85.3	86.2	0.9	
	C	2,760	137	10.1	89.3	89.3	90.2	0.9	
	D	4,700	101	13.6	121.3	121.3	122.1	0.8	

1 Feet Above Confluence With Las Chollas Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Witch Creek								
A	7,700	76	486	7.3	2,486.9	2,486.9	2,487.9	1.0
B	8,120	89	332	10.7	2,497.7	2,497.7	2,497.7	0.0
C	8,610	107	589	6.0	2,505.5	2,505.5	2,506.0	0.5
D	9,100	94	604	5.9	2,509.2	2,509.2	2,510.0	0.8
E	9,570	117	546	6.5	2,514.2	2,514.2	2,514.9	0.7
F	9,964	165	398	8.9	2,532.7	2,532.6	2,532.6	0.0
G	10,354	161	559	6.3	2,541.5	2,541.5	2,542.1	0.6
H	10,834	147	700	5.1	2,546.3	2,546.3	2,547.1	0.8
I	11,374	115	343	10.3	2,565.1	2,565.1	2,565.2	0.1
J	11,702	44	258	13.7	2,688.1	2,688.1	2,688.1	0.0
K	11,882	134	1,021	3.5	2,722.7	2,722.7	2,722.7	0.0
L	12,162	121	586	6.0	2,723.1	2,723.1	2,723.4	0.3
M	12,827	97	625	5.7	2,724.1	2,724.1	2,724.9	0.8
N	13,227	76	331	10.7	2,728.1	2,728.1	2,728.3	0.2
O	13,557	98	625	5.7	2,734.5	2,734.5	2,734.6	0.1
P	13,837	165	531	6.7	2,738.9	2,738.9	2,739.0	0.1
Q	13,932	301	1,357	2.6	2,749.9	2,749.9	2,750.2	0.3
R	13,967	278	1,573	2.3	2,753.6	2,753.6	2,753.6	0.0
S	14,953	210	857	4.1	2,754.4	2,754.4	2,755.4	1.0
T	15,273	125	525	6.7	2,757.4	2,757.4	2,757.7	0.3
U	15,719	105	427	8.3	2,760.1	2,760.1	2,760.9	0.8
V	16,219	63	354	10.0	2,762.6	2,762.6	2,763.6	1.0
W	16,582	74	486	7.3	2,767.9	2,767.9	2,767.9	0.0
X	17,149	128	694	5.1	2,774.0	2,774.0	2,774.4	0.4
Y	17,610	227	755	4.7	2,776.7	2,776.7	2,777.2	0.5
Z	18,085	122	529	6.7	2,781.9	2,781.9	2,782.0	0.1

¹Feet Above Confluence With Santa Ysabel Creek

FEDERAL EMERGENCY MANAGEMENT AGENCY
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 AND INCORPORATED AREAS

FLOODWAY DATA

WITCH CREEK