

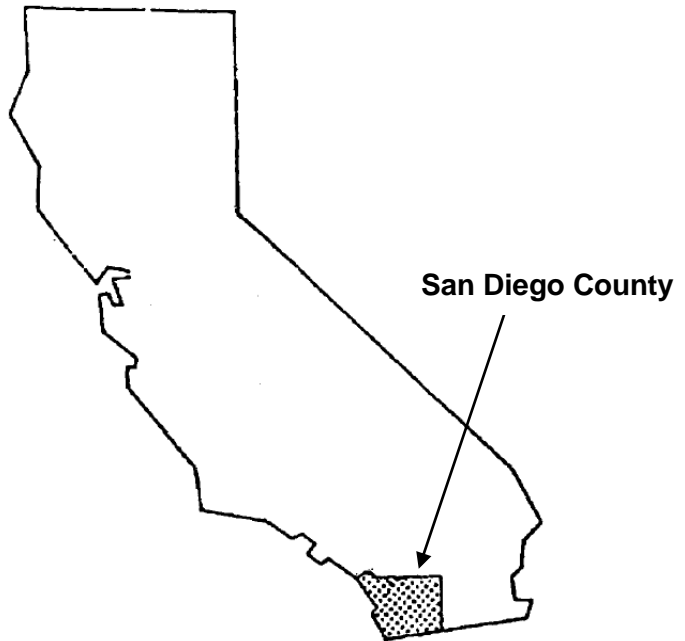
# FLOOD INSURANCE STUDY



## SAN DIEGO COUNTY, CALIFORNIA AND INCORPORATED AREAS

VOLUME 4 OF 11

Community Name	Community Number
SAN DIEGO COUNTY, UNINCORPORATED AREAS	060284
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
LA MESA, CITY OF	060292
LEMON GROVE, CITY OF	060723
NATIONAL CITY, CITY OF	060293
OCEANSIDE, CITY OF	060294
POWAY, CITY OF	060702
SAN DIEGO, CITY OF	060295
SAN MARCOS, CITY OF	060296
SANTEE, CITY OF	060703
SOLANA BEACH, CITY OF	060725
VISTA, CITY OF	060297



REVISED  
May 16, 2012



**Federal Emergency Management Agency**

FLOOD INSURANCE STUDY NUMBER

06073CV004C



TABLE OF CONTENTS

*Table of Contents – Volumes 1 & 2*

	<u>Page</u>
1.0 INTRODUCTION .....	1
1.1 Purpose of Study .....	1
1.2 Authority and Acknowledgments .....	1
1.3 Coordination .....	9
2.0 AREA STUDIED.....	12
2.1 Scope of Study .....	12
2.2 Community Description.....	22
2.3 Principal Flood Problems.....	31
2.4 Flood Protection Measures .....	41
3.0 ENGINEERING METHODS .....	49
3.1 Hydrologic Analyses.....	49
3.2 Hydraulic Analyses.....	97
3.3 Vertical Datum.....	125
4.0 FLOODPLAIN MANAGEMENT APPLICATIONS .....	129
4.1 Floodplain Boundaries .....	129
4.2 Floodways.....	131
5.0 INSURANCE APPLICATION .....	135
6.0 FLOOD INSURANCE RATE MAP .....	136
7.0 OTHER STUDIES.....	141
8.0 LOCATION OF DATA.....	144
9.0 BIBLIOGRAPHY AND REFERENCES .....	144

*Table of Contents – Volumes 1 & 2 – continued*

FIGURES

FIGURE 1 - FLOODWAY SCHEMATIC ..... 134

TABLES

TABLE 1 - CONTACTED AGENCIES ..... 9  
TABLE 2 - INITIAL AND FINAL CCO MEEETINGS ..... 11  
TABLE 3 - FLOODING SOURCES STUDIED BY DETAILED METHODS ..... 15  
TABLE 4 - FLOODING SOURCES STUDIED BY APPROXIMATE METHODS ..... 16  
TABLE 5 - LETTERS OF MAP CHANGE ..... 17  
TABLE 6 - SUMMARY OF ELEVATIONS ..... 53  
TABLE 7 - SUMMARY OF PACIFIC OCEAN WAVE ELEVATIONS ..... 56  
TABLE 8 - SUMMARY OF PEAK DISCHARGES ..... 68  
TABLE 9 - MANNING'S "N" VALUES ..... 114  
TABLE 10 - LIST OF LEVEES REQUIRING FLOOD HAZARD REVISIONS ..... 122  
TABLE 11 - LIST OF CERTIFIED AND ACCREDITED LEVEES ..... 124  
TABLE 12 – FLOODING SOURCE DATUM SHIFT VALUES ..... 125  
TABLE 13 - FLOODWAY DATA ..... See Vol. 3 and 4  
TABLE 14 - COMMUNITY MAP HISTORY ..... 137

*Table of Contents – Volumes 3 & 4*

TABLES

TABLE 13 - FLOODWAY DATA

*Table of Contents – Volume 5*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Adobe Creek	01P
Agua Hedionda Creek	02P - 03P
Agua Hedionda Creek (at City of Carlsbad)	04P - 06P
Agua Hedionda Creek (at City of Vista)	07P - 11P
Alvarado Creek	12P - 34P
Beaver Hollow Creek	35P - 39P
Beeler Creek	40P - 46P
Broadway Creek	47P - 49P
Buena Creek	50P - 58P
Buena Vista Creek	59P - 79P
Buena Vista Creek Tributary 1	80P - 81P
Buena Vista Creek Tributary 3	82P - 85P
Calavera Creek	86P
Calavera Creek Split Flow	87P
Carmel Valley Creek	88P - 90P

*Table of Contents – Volume 6*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Carroll Canyon Creek	91P - 101P
Coleman Creek	102P - 108P
County Ditch Creek	109P - 110P
Deer Springs Creek	111P
Descanso Creek	112P - 114P
Encanto Branch	115P - 118P
Escondido Creek (Above Lake Wohlford)	119P
Escondido Creek (at Encinitas)	120P - 123P
Escondido Creek (at Escondido)	124P - 128P
Escondido Creek (Left Reach)	129P
Eucalyptus Hills Creek (East Branch)	130P
Eucalyptus Hills Creek (West Branch)	131P - 132P
Florida Drive Branch	133P
Forester Creek	134P - 146P
Garrison Creek	147P - 150P
Gonzales Canyon Creek	151P
Gopher Canyon Creek	152P - 155P
Green Valley Creek	156P - 158P
Green Valley Creek Tributary	159P
Harbison Canyon Creek	160P - 166P
Hatfield Creek	167P - 168P
Home Avenue Branch	169P - 171P
Johnson Canyon Creek	172P - 177P

*Table of Contents – Volume 7*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Keys Canyon Creek	178P - 180P
Keys Canyon Creek Tributary 1	181P - 184P
Keys Canyon Creek Tributary 2	185P - 187P
Kit Carson Park Creek	188P - 192P
Lake San Marcos/San Marcos Creek	193P - 194P
Las Chollas Creek	195P - 199P
Las Posas Creek (Upper)	200P
Las Puleta Creek	201P - 202P
Lawson Valley Creek	203P - 208P
Loma Alta Creek	209P - 214P
Los Penasquitos Creek	215P - 223P
Lusardi Creek	224P
McGonigle Canyon Creek	225P - 226P
McGonigle Canyon Creek Tributary A	227P
Mexican Canyon Creek	228P - 231P
Moosa Creek (North Branch)	232P - 234P
Moosa Creek (South Branch)	235P
Murphy Canyon Creek	236P - 238P
Murray Canyon Creek	239P - 244P
Nestor Creek	245P - 250P
North Avenue Tributary	251P
North Branch Poway Creek	252P - 253P
North Tributary to Santa Maria Creek	254P - 255P
Olive Creek	256P - 257P

*Table of Contents – Volume 8*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Otay River	258P - 281P
Pala Mesa Creek	282P - 283P
Paradise Creek	284P - 288P
Paradise Creek Split Flow	289P
Paradise Creek - Valley Road Branch	290P
Pilgrim Creek	291P - 293P
Poggi Canyon Creek	294P - 296P
Pomerado Creek	297P
Poway Creek	298P - 305P
Rainbow Creek	306P - 307P
Rainbow Creek (West Branch)	308P
Rattlesnake Creek	309P - 316P
Rattlesnake Creek Split Flow at Heritage Hills	317P - 318P
Rattlesnake Creek Split Flow at Midland Road	319P

*Table of Contents – Volume 8 continued*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Reidy Creek	320P - 324P
Reidy Creek Split Flow	325P
Rice Canyon Creek	326P - 329P
Rincon Avenue Tributary	330P
Rose Canyon Creek	331P - 337P
Samagutuma Creek	338P - 340P
San Clemente Canyon Creek	341P - 343P

*Table of Contents – Volume 9*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

San Diego River	344P - 378P
San Dieguito River	379P - 381P
San Elijo Creek	382P
San Luis Rey River (at Oceanside)	383P - 391P
San Marcos Creek	392P - 395P
San Marcos Creek (Below Lake San Marcos)	396P - 397P
San Marcos Creek - Highway 78 Split Flow	398P
San Vincente Creek	399P - 401P
Santa Maria Creek (San Pasqual Valley Area)	402P - 405P
Santa Maria Creek (Santa Maria Valley Area)	406P - 426P

*Table of Contents – Volume 10*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Santa Ysabel Creek	427P - 438P
Slaughterhouse Creek	439P - 440P
Soledad Canyon	441P - 445P
South Branch Poway Creek	446P - 447P
South Fork Moosa Canyon Creek	448P - 452P
South Las Chollas Creek	453P - 457P
South Tributary to Santa Maria Creek	458P - 459P
Steele Canyon Creek	460P - 468P
Stevenson Creek	469P
Sweetwater River (Above Reservoir)	470P - 496P
Sweetwater River (At National City)	497P - 501P
Sweetwater River (Descanso Area)	502P - 505P
Switzer Creek	506P

*Table of Contents – Volume 11*

EXHIBITS

EXHIBIT 1 – FLOOD PROFILES

Tecolote Creek	507P - 520P
Telegraph Canyon Creek	521P - 540P
Tijuana River	541P – 545P
Tributary of South Tributary to Santa Maria Creek	546P
Tributary to Forester Creek	547P
Tributary to Forester Creek South Branch	548P
Tributary to Sweetwater River	549P - 550P
Twin Oaks Valley Creek	551P - 557P
Unnamed Tributary to San Dieguito River	558P
Wabash Branch	559P
Witch Creek	560P - 562P

PUBLISHED SEPARATELY: Flood Insurance Rate Map Index  
Flood Insurance Rate Map



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Nestor Creek								
A	2,000	52	262	4.2	15.0	14.2 <sup>2</sup>	14.3 <sup>2</sup>	0.1
B	3,000	160	637	1.7	15.5	14.8 <sup>2</sup>	15.5 <sup>2</sup>	0.7
C	3,988	100	230	4.7	16.1	14.8 <sup>2</sup>	15.5 <sup>2</sup>	0.7
D	5,772	68	482	1.8	18.9	18.9	19.2	0.3
E	7,500	100	479	1.7	19.3	19.3	19.8	0.5
F	8,000	100	433	1.8	19.3	19.3	19.9	0.6
G	8,310	50	294	2.4	19.8	19.8	20.3	0.5
H	8,760	64	249	2.8	20.2	20.2	20.6	0.4
I	9,400	39	111	6.3	22.8	22.8	22.8	0.0
J	9,700	127	578	0.9	28.2	28.2	28.2	0.0
K	10,180	21	182	2.7	28.3	28.3	28.3	0.0
L	10,300	40	200	2.5	28.3	28.3	28.5	0.2
M	10,500	68	295	1.6	28.4	28.4	28.7	0.3

<sup>1</sup> Feet Above Confluence with Otay River

<sup>2</sup> Elevation Computed without Consideration of Influence from Otay River

TABLE 13

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

**FLOODWAY DATA**

**NESTOR CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NGVD <sup>3</sup> )			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Nestor Creek								
A	2,000	52	262	4.2	12.9	12.1	12.2	0.1
B	3,000	160	637	1.7	13.4	12.7	13.4	0.7
C	3,988	100	230	4.7	14.0	12.7	13.4	0.7

<sup>1</sup> Feet Above Confluence with Otay River

<sup>2</sup> Elevation Computed without Consideration of Influence from Otay River

<sup>3</sup> This additional table was added for Nestor Creek to account for the portion of the floodway printed on a DFIRM with a different datum.

TABLE 13

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

FLOODWAY DATA

NESTOR CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
North Branch Poway Creek								
A	500	43	245	1.6	554.8	554.8	555.1	0.3
B	1,285	36	143	4.0	557.5	557.5	558.1	0.6
C	2,150	297	589	4.0	564.0	564.0	564.7	0.7
D	3,255	93	349	8.6	575.9	575.9	576.3	0.4
E	3,955	89	298	10.1	583.5	583.5	583.8	0.3

<sup>1</sup> Feet Above Confluence with Poway Creek and South Branch Poway Creek

TABLE 13

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

FLOODWAY DATA

**NORTH BRANCH POWAY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
North Tributary to Santa Maria Creek								
A	1,490	650	3,838	0.3	1,373.4	1,373.4	1,374.2	0.8
B	2,040	205	1,070	1.0	1,373.4	1,373.4	1,374.2	0.8
C	2,780	240	680	1.6	1,373.5	1,373.5	1,374.5	1.0
D	2,890	265	1,154	1.0	1,375.5	1,375.5	1,376.4	0.9
E	3,170	129	466	2.4	1,375.5	1,375.5	1,376.5	1.0
F	3,920	195	376	2.9	1,379.1	1,379.1	1,380.1	1.0

<sup>1</sup> Feet Above Confluence with Santa Maria Creek

TABLE 13

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

**FLOODWAY DATA**

**NORTH TRIBUTARY TO SANTA MARIA CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Olive Creek								
A	455	132	232	5.9	701.7	699.8 <sup>2</sup>	700.8 <sup>2</sup>	1.0
B	605	171	254	5.4	702.2	702.2	702.6	0.4
C	828	256	314	4.4	704.5	704.5	705.2	0.7
D	1,078	135	207	6.6	708.7	708.7	708.8	0.1
E	1,232	163	232	5.9	711.1	711.1	711.1	0.0
F	1,692	170	238	5.8	716.1	716.1	716.6	0.5
G	2,237	180	235	5.8	726.2	726.2	726.8	0.6
H	2,627	238	282	4.8	732.7	732.7	733.5	0.8
I	2,892	243	292	4.7	740.1	740.1	740.2	0.1

<sup>1</sup> Feet Above Confluence with Twin Oaks Valley Creek

<sup>2</sup> Elevation Computed without Consideration of Backwater Effects From Twin Oaks Valley Creek

TABLE 13

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

**FLOODWAY DATA**

**OLIVE CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Otay River								
A	0	2,533	4,688	4.7	13.2	13.2	13.2	0.0
B	1,390	2,110	9,474	2.3	15.2	15.2	16.1	0.9
C	2,490	2,300	4,084	5.4	16.3	16.3	16.8	0.5
D	3,720	1,662	7,917	2.8	18.2	18.2	18.9	0.7
E	4,040	642	1,928	11.4	19.3	19.3	19.4	0.1
F	4,270	722	3,819	5.8	20.6	20.6	20.6	0.0
G	5,100	641	2,883	7.6	24.0	24.0	24.0	0.0
H	5,350	360	1,767	12.4	25.7	25.7	25.7	0.0
I	5,390	320	2,711	8.1	28.0	28.0	28.0	0.0
J	5,500	304	2,359	9.3	28.9	28.9	28.9	0.0
K	5,600	440	4,010	5.5	30.8	30.8	30.8	0.0
L	5,880	740	4,511	4.9	30.8	30.8	30.9	0.1
M	6,280	1,020	7,451	2.9	30.9	30.9	31.5	0.6
N	6,610	1,225	7,933	2.8	30.9	30.9	31.7	0.8
O	7,012	1,243	4,824	4.6	32.8	32.8	32.9	0.1
P	7,330	1,035	3,833	5.7	33.3	33.3	33.8	0.5
Q	7,670	1,204	6,208	3.5	34.3	34.3	35.3	1.0
R	8,780	451	3,132	7.0	36.4	36.4	37.3	0.9
S	8,875	432	2,553	8.6	36.6	36.6	37.6	1.0
T	9,525	1,060	7,231	3.0	39.7	39.7	39.9	0.2
U	10,375	1,110	9,424	2.3	40.1	40.1	40.3	0.2
V	11,275	935	8,841	2.5	40.3	40.3	40.5	0.2
W	11,825	917	8,300	2.6	40.3	40.3	40.6	0.3
X	12,085	670	6,494	3.4	40.4	40.4	40.7	0.3
Y	12,395	403	1,798	12.2	42.9	42.9	42.9	0.0
Z	12,579	476	3,279	6.8	45.4	45.4	45.4	0.0

<sup>1</sup> Feet above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**OTAY RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Otay River (cont'd)								
AA	12,959	540	4,145	5.3	45.7	45.7	46.0	0.3
AB	13,789	503	3,304	6.7	46.2	46.2	47.2	1.0
AC	14,839	575	4,992	4.4	48.4	48.4	49.0	0.6
AD	15,349	455	1,940	11.3	49.0	49.0	49.0	0.0
AE	16,049	455	2,241	9.8	54.9	54.9	55.6	0.7
AF	16,249	462	3,144	7.0	57.3	57.3	57.3	0.0
AG	16,529	447	3,490	6.3	57.9	57.9	58.0	0.1
AH	16,769	446	2,434	9.0	58.2	58.2	58.3	0.1
AI	16,979	415	2,063	10.7	59.1	59.1	59.3	0.2
AJ	17,149	382	2,053	10.7	61.2	61.2	61.2	0.0
AK	17,669	442	2,432	9.0	63.8	63.8	64.8	1.0
AL	18,109	430	1,969	11.2	68.2	68.2	68.8	0.6
AM	18,969	595	2,383	9.2	76.6	76.6	77.4	0.8
AN	19,039	586	3,840	5.7	77.6	77.6	78.5	0.9
AO	19,259	610	3,518	6.2	78.2	78.2	78.8	0.6
AP	19,349	572	2,298	9.6	78.2	78.2	78.8	0.6
AQ	19,704	442	2,695	8.2	81.4	81.4	81.4	0.0
AR	20,174	448	3,705	6.1	83.2	83.2	83.2	0.0
AS	20,674	316	2,938	7.2	84.2	84.2	84.2	0.0
AT	21,120	329	2,938	7.3	86.5	86.5	86.5	0.0
AU	21,465	415	1,832	12.2	91.3	91.3	91.3	0.0
AV	22,420	470	4,374	5.3	96.2	96.2	96.2	0.0
AW	23,330	379	1,744	12.7	104.1	104.1	104.1	0.0
AX	23,875	635	6,948	3.4	107.5	107.5	107.6	0.1
AY	24,245	600	5,399	4.4	107.6	107.6	107.7	0.1
AZ	25,225	514	2,049	12.3	110.7	110.7	111.2	0.5

<sup>1</sup> Feet Above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**OTAY RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Otay River (cont'd)								
BA	25,919	635	3,380	6.5	114.8	114.8	115.5	0.7
BB	26,489	665	4,846	4.5	116.2	116.2	116.9	0.7
BC	27,534	713	2,379	9.2	117.7	117.7	118.7	1.0
BD	28,094	571	3,241	6.8	123.3	123.3	124.2	0.9
BE	28,284	590	1,599	13.8	125.3	125.3	125.3	0.0
BF	28,629	564	4,085	5.4	128.9	128.9	129.2	0.3
BG	28,959	574	3,466	6.3	129.1	129.1	129.6	0.5
BH	29,259	580	5,340	4.1	129.4	129.4	130.4	1.0
BI	29,429	600	2,128	10.3	131.8	131.8	131.8	0.0
BJ	29,619	630	4,329	5.1	133.4	133.4	133.8	0.4
BK	29,829	637	4,332	5.1	133.6	133.6	134.0	0.4
BL	30,404	650	5,548	4.0	134.0	134.0	134.7	0.7
BM	30,884	685	1,941	11.3	143.6	143.6	143.6	0.0
BN	30,964	833	6,336	3.5	145.1	145.1	145.8	0.7
BO	32,114	808	8,694	2.5	145.6	145.6	146.3	0.7
BP	33,074	520	3,145	7.0	145.7	145.7	146.3	0.6
BQ	33,824	523	3,240	6.8	148.0	148.0	148.6	0.6
BR	34,664	515	2,703	8.1	151.4	151.4	151.6	0.2
BS	35,779	446	1,892	11.6	160.5	160.5	160.5	0.0
BT	36,599	520	3,324	6.6	166.0	166.0	166.1	0.1
BU	37,049	406	3,069	7.2	167.1	167.1	167.2	0.1
BV	37,549	268	1,600	13.7	169.9	169.9	169.9	0.0
BW	37,749	280	2,171	10.1	172.9	172.9	172.9	0.0
BX	38,239	315	1,872	11.7	175.3	175.3	175.3	0.0
BY	38,479	380	2,002	11.0	177.8	177.8	177.8	0.0
BZ	38,829	462	2,865	7.7	180.4	180.4	180.6	0.2

<sup>1</sup> Feet Above Cross Section A



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Otay River (cont'd)								
CA	39,629	762	5,569	3.9	181.5	181.5	182.5	1.0
CB	41,309	741	3,587	6.1	184.3	184.3	184.5	0.2
CC	42,409	501	2,035	10.8	192.3	192.3	192.6	0.3
CD	43,509	873	4,270	5.2	197.9	197.9	198.1	0.2
CE	44,789	1,110	3,708	5.9	201.9	201.9	201.9	0.0
CF	45,989	579	2,484	8.9	208.3	208.3	208.3	0.0
CG	46,789	794	5,009	4.4	211.2	211.2	211.4	0.2
CH	47,989	828	2,393	9.2	216.9	216.9	216.9	0.0
CI	48,989	1,155	2,657	8.3	231.4	231.4	231.4	0.0
CJ	49,889	775	3,154	7.0	238.3	238.3	238.6	0.3
CK	50,189	615	2,112	10.4	240.1	240.1	240.4	0.3
CL	50,559	619	2,878	7.6	243.5	243.5	244.2	0.7
CM	50,909	415	2,577	8.5	245.2	245.2	245.8	0.6
CN	51,569	368	1,824	12.1	250.2	250.2	250.2	0.0
CO	52,049	390	2,923	7.5	254.6	254.6	255.2	0.6
CP	53,329	437	1,893	11.6	262.1	262.1	262.1	0.0
CQ	53,499	454	1,919	11.5	264.0	264.0	264.0	0.0
CR	53,844	583	4,261	5.2	266.5	266.5	267.3	0.8
CS	54,234	659	5,891	3.7	266.8	266.8	267.8	1.0
CT	54,694	518	4,336	5.1	267.1	267.1	268.0	0.9
CU	54,974	370	3,002	7.3	267.2	267.2	268.1	0.9
CV	55,074	321	2,174	10.1	267.2	267.2	268.1	0.9
CW	55,154	297	1,777	12.4	267.4	267.4	268.1	0.7
CX	55,254	295	2,419	9.1	269.7	269.7	269.7	0.0
CY	55,524	203	1,668	13.2	269.9	269.9	270.0	0.1
CZ	55,604	165	1,361	16.2	271.2	271.2	271.2	0.0

<sup>1</sup> Feet Above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**OTAY RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Otay River (cont'd)								
DA	55,774	119	1,212	18.1	272.6	272.6	272.6	0.0
DB	55,934	76	1,041	21.1	281.1	281.1	281.1	0.0
DC	56,144	145	1,291	17.0	288.6	288.6	288.6	0.0
DD	56,314	103	1,155	19.0	295.9	295.9	295.9	0.0
DE	56,564	109	1,425	15.4	299.9	299.9	299.9	0.0
DF	56,754	94	1,126	19.5	300.3	300.3	300.3	0.0
DG	56,914	89	1,111	19.8	306.1	306.1	306.1	0.0
DH	57,124	114	1,186	18.5	313.4	313.4	313.4	0.0
DI	57,304	128	1,247	17.6	318.4	318.4	318.4	0.0
DJ	57,884	104	1,145	19.2	332.2	332.2	332.2	0.0
DK	58,364	164	1,341	16.4	342.1	342.1	342.1	0.0
DL	58,724	150	1,311	16.8	347.4	347.4	347.4	0.0
DM	59,494	229	2,900	7.6	355.2	355.2	355.2	0.0
DN	59,914	141	1,328	16.6	356.0	356.0	356.0	0.0
DO	60,034	165	2,114	10.4	359.8	359.8	359.8	0.0
DP	60,314	161	1,360	16.2	359.8	359.8	359.8	0.0
DQ	60,564	240	1,515	14.5	365.3	365.3	365.3	0.0
DR	60,934	196	1,427	15.4	373.7	373.7	373.7	0.0
DS	61,114	161	1,361	16.2	375.4	375.4	375.4	0.0
DT	62,014	301	4,226	5.2	381.3	381.3	381.3	0.0

<sup>1</sup> Feet Above Cross Section A

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NGVD <sup>2</sup> )			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Otay River								
A	0	2,533	4,688	4.7	11.0	11.0	11.0	0.0
B	1,390	2,110	9,474	2.3	13.0	13.0	13.9	0.9
C	2,490	2,300	4,084	5.4	14.1	14.1	14.6	0.5
D	3,720	1,662	7,917	2.8	16.0	16.0	16.7	0.7
E	4,040	642	1,928	11.4	17.1	17.1	17.2	0.1
F	4,270	722	3,819	5.8	18.4	18.4	18.4	0.0
G	5,100	641	2,883	7.6	21.8	21.8	21.8	0.0
H	5,350	360	1,767	12.4	23.5	23.5	23.5	0.0
I	5,390	320	2,711	8.1	25.8	25.8	25.8	0.0
J	5,500	304	2,359	9.3	26.7	26.7	26.7	0.0
K	5,600	440	4,010	5.5	28.6	28.6	28.6	0.0
L	5,880	740	4,511	4.9	28.6	28.6	28.7	0.1
M	6,280	1,020	7,451	2.9	28.7	28.7	29.3	0.6
N	6,610	1,225	7,933	2.8	28.7	28.7	29.5	0.8
O	7,012	1,243	4,824	4.6	30.6	30.6	30.7	0.1
P	7,330	1,035	3,833	5.7	31.1	31.1	31.6	0.5
Q	7,670	1,204	6,208	3.5	32.1	32.1	33.1	1.0

<sup>1</sup> Feet above Cross Section A

<sup>2</sup> This additional table was added for Otay River to account for the portion of the floodway printed on a DFIRM with a different datum.

TABLE 13

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

**FLOODWAY DATA**

**OTAY RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Pala Mesa Creek								
A	265	24	276	6.2	312.6	312.6	313.6	1.0
B	300	35	146	11.6	313.7	313.7	313.7	0.0
C	675	108	477	3.6	317.1	317.1	317.4	0.3
D	960	410	1,250	1.4	317.5	317.5	317.7	0.2
E	1,440	398	323	5.3	320.0	320.0	320.0	0.0
F	1,725	258	284	6.0	325.3	325.3	325.3	0.0
G	1,955	56	172	9.9	328.8	328.8	329.0	0.2
H	2,340	157	241	7.0	334.1	334.1	334.8	0.7
I	2,815	281	291	5.8	343.4	343.4	343.4	0.0
J	3,205	197	373	6.6	349.7	349.7	350.0	0.3
K	3,495	197	493	3.4	356.3	356.3	356.3	0.0
L	3,750	144	462	3.7	360.1	360.1	360.1	0.0
M	4,120	178	307	5.5	365.9	365.9	365.9	0.0
N	4,555	298	606	2.8	373.1	373.1	374.0	0.9
O	4,840	175	384	4.4	379.2	379.2	379.9	0.7
P	5,215	217	382	4.5	386.3	386.3	386.3	0.0
Q	5,485	78	222	7.7	389.6	389.6	389.9	0.3
R	5,730	58	172	9.9	391.5	391.5	391.6	0.1
S	6,030	48	166	10.3	399.5	399.5	399.9	0.4
T	6,430	37	152	11.2	415.0	415.0	415.2	0.2
U	6,845	53	178	9.6	432.4	432.4	432.7	0.3
V	7,180	25	130	13.1	444.7	444.7	444.9	0.2

<sup>1</sup> Feet Above Interstate Highway 15

TABLE 13

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

**FLOODWAY DATA**

**PALA MESA CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Paradise Creek								
A	1.95	165	-- <sup>2</sup>	-- <sup>2</sup>	14.7	14.7	14.7	0.0
B	2.10	225	-- <sup>2</sup>	-- <sup>2</sup>	17.5	17.5	17.5	0.0
C	3.88	200	289	5.2	118.1	118.1	118.5	0.4
D	3.96	50	159	9.4	122.8	122.8	123.2	0.4
E	4.08	50	145	10.3	130.1	130.1	131.1	1.0
F	4.27	185	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	145.1	145.1	-- <sup>2</sup>
G	4.37	125	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	149.9	149.9	-- <sup>2</sup>
H	4.48	80	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	156.4	156.4	-- <sup>2</sup>
I	4.62	50	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	163.7	163.7	-- <sup>2</sup>

<sup>1</sup> Miles Above Mouth

<sup>2</sup> Data Not Available

TABLE 13

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

**FLOODWAY DATA**

**PARADISE CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Pilgrim Creek								
A	1,266	52	411	7.4	54.3	53.7 <sup>2</sup>	54.1 <sup>2</sup>	0.4
B	1,861	48	412	6.3	54.3	54.2 <sup>2</sup>	54.5 <sup>2</sup>	0.3
C	2,165	56	526	4.7	54.4	54.4	54.8	0.4
D	2,407	43	436	5.2	54.6	54.6	54.9	0.3
E	2,677	40	414	5.4	54.6	54.6	54.9	0.3
F	3,160	54	454	5.4	54.7	54.7	55.0	0.3
G	3,454	50	416	5.8	54.7	54.7	55.0	0.3
H	3,862	43	415	5.4	54.8	54.8	55.1	0.3
I	4,323	42	399	3.7	55.1	55.1	55.3	0.2
J	4,804	43	387	3.8	55.1	55.1	55.4	0.3
K	5,109	43	377	3.9	55.1	55.1	55.4	0.3
L	5,497	40	334	4.5	55.1	55.1	55.4	0.3
M	5,886	41	351	4.3	55.1	55.1	55.4	0.3

<sup>1</sup> Feet Above Confluence with San Luis Rey River

<sup>2</sup> Elevations computed without Considering backwater effects from San Luis Rey River

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Poggi Canyon Creek								
A	773	34	125	11.2	93.2	93.2	93.2	0.0
B	1,090	67	293	4.8	105.2	105.2	105.2	0.0
C	1,744	88	196	7.2	109.0	109.0	109.0	0.0
D	3,178	34	127	11.1	133.2	133.2	133.2	0.0
E	5,038	45	266	5.5	163.3	163.3	163.3	0.0
F	5,852	34	127	11.1	166.9	166.9	166.9	0.0

<sup>1</sup> Feet Above Mouth

TABLE 13

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

**FLOODWAY DATA**

**POGGI CANYON CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Pomerado Creek								
A	626	55	380	5.5	434.9	434.9	435.8	0.9
B	1,030	54	306	6.8	438.0	438.0	438.3	0.3

<sup>1</sup> Feet Above Confluence with Poway Creek

TABLE 13

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

FLOODWAY DATA

POMERADO CREEK



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	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	410.1	410.1	410.1	0.0
B	680	251	2,083	6.7	414.2	414.2	414.3	0.1
C	1,310	202	1,421	9.9	418.6	418.6	418.6	0.0
D	2,125	210	1,074	11.2	425.7	425.7	426.1	0.4
E	2,870	509	2,265	5.3	430.1	430.1	430.6	0.5
F	3,430	219	1,237	7.8	432.9	432.9	432.9	0.0
G	4,290	125	917	10.6	436.5	436.5	436.6	0.1
H	4,910	141	1,241	7.8	442.9	442.9	443.0	0.1
I	6,135	233	1,616	8.2	452.6	452.6	453.2	0.6
J	6,820	192	1,101	14.5	454.3	454.3	454.3	0.0
K	8,060	195	1,347	7.2	460.3	460.3	460.3	0.0
L	9,620	111	654	9.6	472.7	472.7	472.7	0.0
M	10,410	109	675	9.3	478.7	478.7	478.7	0.0
N	11,575	74	660	9.5	487.0	487.0	488.0	1.0
O	12,505	114	966	6.0	492.2	492.2	492.3	0.1
P	13,145	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>
Q	14,730	300	1,185	4.7	518.2	518.2	518.2	0.0
R	16,030	382	938	6.0	522.8	522.8	522.8	0.0
S	16,910	390	1,252	4.5	529.0	529.0	529.2	0.2
T	17,590	518	1,471	3.8	532.0	532.0	532.3	0.3
U	18,400	146	385	20.0	537.5	537.5	537.5	0.0
V	19,490	242	635	8.8	544.3	544.3	544.5	0.2

<sup>1</sup> Feet Above the City of Poway Corporate Limits

<sup>2</sup> Data Not Available

TABLE 13

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

**FLOODWAY DATA**

**POWAY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rainbow Creek								
A	0	64	591	8.1	1,030.6	1,030.6	1,031.6	1.0
B	136	55	881	5.4	1,038.1	1,038.1	1,038.1	0.0
C	170	48	690	7.0	1,038.2	1,038.2	1,038.2	0.0
D	872	237	1,805	2.7	1,038.2	1,038.2	1,039.0	0.8
E	1,216	320	1,973	2.4	1,038.5	1,038.5	1,039.3	0.8
F	1,431	395	2,025	2.4	1,038.6	1,038.6	1,039.4	0.8
G	1,494	377	2,035	2.4	1,038.6	1,038.6	1,039.4	0.8
H	1,940	185	751	6.4	1,039.6	1,039.6	1,040.3	0.7
I	2,480	141	741	6.5	1,043.5	1,043.5	1,044.5	1.0
J	2,942	362	2,059	2.3	1,045.8	1,045.8	1,046.6	0.8
K	3,092	527	2,332	2.1	1,045.9	1,045.9	1,046.7	0.8
L	3,822	493	1,713	2.9	1,047.5	1,047.5	1,048.4	0.9
M	4,112	280	859	3.4	1,048.0	1,048.0	1,049.0	1.0
N	4,742	390	1,106	2.7	1,051.5	1,051.5	1,052.1	0.6
O	5,212	478	867	3.5	1,052.4	1,052.4	1,053.2	0.8
P	5,542	429	702	5.0	1,055.8	1,055.8	1,056.4	0.6
Q	5,922	520	1,497	2.4	1,059.0	1,059.0	1,059.8	0.8
R	6,955	174	580	6.1	1,063.2	1,063.2	1,063.9	0.7
S	7,772	93	415	8.5	1,067.9	1,067.9	1,068.3	0.4
T	8,170	70	361	9.8	1,071.0	1,071.0	1,071.0	0.0
U	8,904	42	257	13.7	1,075.7	1,075.7	1,075.7	0.0

<sup>1</sup> Feet Above Interstate Highway 15

TABLE 13

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

**FLOODWAY DATA**

**RAINBOW CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rainbow Creek (West Branch)								
A	720	314	1,204	4.2	1,047.5	1,047.5	1,048.5	1.0
B	1,130	68	273	9.6	1,049.6	1,049.6	1,049.9	0.3
C	1,958	210	695	3.1	1,055.2	1,055.2	1,056.1	0.9
D	2,258	250	384	5.5	1,058.2	1,058.2	1,058.2	0.0
E	2,292	260	1,084	2.0	1,058.9	1,058.9	1,059.8	0.9
F	2,357	234	999	2.1	1,060.4	1,060.4	1,060.5	0.1
G	2,638	83	348	6.1	1,060.5	1,060.5	1,060.8	0.3
H	2,937	105	357	6.0	1,061.5	1,061.5	1,062.4	0.9
I	3,354	47	321	6.6	1,063.1	1,063.1	1,063.9	0.8
J	3,670	42	180	11.9	1,066.5	1,066.5	1,066.5	0.0
K	4,231	46	227	9.4	1,071.9	1,071.9	1,072.6	0.7

<sup>1</sup> Feet Above Confluence with Rainbow Creek

TABLE 13

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

FLOODWAY DATA

**RAINBOW CREEK (WEST BRANCH)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rattlesnake Creek								
A	731	97	370	10.6	466.5	466.5	466.5	0.0
B	1,173	92	447	8.7	470.0	470.0	470.3	0.3
C	1,786	119	592	6.6	476.0	476.0	476.0	0.0
D	2,328	70	456	6.8	480.0	480.0	480.4	0.4
E	3,670	51	428	7.2	498.6	498.6	498.8	0.2
F	4,434	82	680	-- <sup>2</sup>	502.8	502.8	502.9	0.1
G	5,497	62	408	9.6	504.1	504.1	504.3	0.2
H	5,905	88	742	5.3	508.1	508.1	508.1	0.0
I	6,528	80	534	7.3	509.9	509.9	509.9	0.0
J	7,980	300	943	4.1	519.4	519.4	519.8	0.4
K	8,680	624	1,043	3.7	526.5	526.5	526.8	0.3
L	9,080	627/689 <sup>3</sup>	1,333	2.8	529.7	529.7	530.1	0.4
M	9,630	297/367 <sup>3</sup>	508	5.7	534.0	534.0	534.4	0.4
N	10,050	55/172 <sup>3</sup>	356	4.4	540.4	540.4	540.4	0.0
O	10,850	68	337	9.8	548.6	548.6	548.8	0.2
P	11,450	220	409	9.4	556.0	556.0	556.5	0.5
Q	12,245	88	392	8.4	560.3	560.3	560.3	0.0
R	13,040	280	711	7.5	569.2	569.2	569.5	0.3
S	13,670	240	607	5.4	573.7	573.7	574.2	0.5
T	14,430	230	1,431	2.3	583.0	583.0	583.0	0.0
U	15,440	261	429	6.1	588.2	588.2	588.2	0.0
V	16,330	200	379	6.9	599.0	599.0	599.0	0.0
W	17,090	130	315	8.3	610.8	610.8	610.8	0.0
X	18,030	90	289	9.0	628.3	628.3	628.3	0.0

<sup>1</sup> Feet Above Confluence with Poway Creek

<sup>2</sup> Data Not Available

<sup>3</sup> Width/Width of Combined Floodway with Split Flow at Midland Road

TABLE 13

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

FLOODWAY DATA

RATTLESNAKE CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rattlesnake Creek Split Flow at Heritage Hills								
A	673	55	104	7.6	481.5	481.5	481.7	0.2
B	1,900	162	507	1.7	492.0	492.0	492.7	0.7
C	2,674	150	251	4.0	495.5	495.5	495.5	0.0
Rattlesnake Creek Split Flow at Midland Road								
L	40	62/689 <sup>2</sup>	50	0.2	532.7	532.7	532.7	0.0
M	670	70/367 <sup>2</sup>	175	9.0	536.5	536.5	536.5	0.0
N	890	117/172 <sup>2</sup>	386	4.7	540.4	540.4	540.4	0.0

<sup>1</sup> Feet Above Confluence with Rattlesnake Creek

<sup>2</sup> Width/Width of Combined Floodway with Rattlesnake Creek

TABLE 13

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			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Reidy Creek								
A	11,500	419	1,526	5.4	692.2	692.2	692.2	0.0
B	12,185	322	1,170	7.1	694.4	694.4	694.6	0.2
C	13,338	224	1,350	5.7	700.3	700.3	701.2	0.9
D	13,873	174	1,223	6.3	704.7	704.7	704.8	0.1
E	14,632	110	639	10.3	708.6	708.6	708.7	0.1
F	15,261	131	1,118	6.6	715.3	715.3	715.3	0.0
G	16,270	164	897	8.6	720.0	720.0	720.0	0.0
H	16,900	185	1,140	7.0	722.7	722.7	722.7	0.0
I	17,661	172	1,040	5.8	728.9	728.9	729.6	0.7
J	18,464	158	1,082	5.2	735.6	735.6	736.4	0.8
K	19,066	119	1,081	4.5	740.0	740.0	740.4	0.4
L	19,467	153	1,390	3.5	741.4	741.4	742.1	0.7
M	20,539	183	502	10.2	755.8	755.8	755.9	0.1
N	21,087	331	817	2.1	759.1	759.1	760.0	0.9
O	21,623	385	675	2.7	763.1	763.1	763.5	0.4
P	22,127	318	752	2.3	768.1	768.1	769.1	1.0
Q	22,365	366	778	5.1	770.6	770.6	770.9	0.3
R	22,630	275	549	7.3	772.9	772.9	773.0	0.1
S	22,830	100	386	10.4	777.5	777.5	777.5	0.0
T	23,205	270	609	6.6	781.1	781.1	781.9	0.8
U	23,465	330	651	6.1	783.8	783.8	783.9	0.1
V	23,645	380	1,013	3.9	785.7	785.7	785.9	0.2
W	23,920	485	1,117	3.6	786.8	786.8	786.8	0.0
X	24,240	545	690	4.9	788.7	788.7	788.8	0.1
Y	25,055	200	491	6.9	796.9	796.9	797.7	0.8
Z	25,545	140	421	8.1	801.4	801.4	802.2	0.8

<sup>1</sup> Feet Above Confluence with Escondido Creek

TABLE 13

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

**FLOODWAY DATA**

**REIDY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Reidy Creek (cont'd)								
AA	25,860	200	450	7.5	805.1	805.1	805.2	0.1
AB	26,150	195	496	6.9	808.5	808.5	808.6	0.1
AC	26,440	300	528	6.4	812.5	812.5	812.6	0.1
AD	27,040	125	399	8.5	819.8	819.8	820.4	0.6
AE	27,830	150	418	8.1	829.7	829.7	830.3	0.6
AF	28,225	240	548	6.2	835.2	835.2	835.3	0.1
AG	29,100	76	264	10.6	842.5	842.5	842.5	0.0
AH	29,550	73	264	10.6	849.6	849.6	849.6	0.0
AI	30,110	528	679	4.1	856.2	856.2	856.3	0.1
AJ	30,615	317	699	4.0	859.8	859.8	860.5	0.7
AK	30,935	170	378	7.4	865.5	865.5	865.7	0.2
AL	31,305	230	509	5.5	870.0	870.0	870.1	0.1
AM	31,630	180	411	6.8	872.3	872.3	872.4	0.1
AN	31,910	135	355	7.9	876.6	876.6	877.0	0.4
AO	32,230	218	457	6.1	879.5	879.5	880.0	0.5
AP	32,500	86	298	9.4	882.0	882.0	882.0	0.0
AQ	33,045	176	265	6.0	888.7	888.7	888.9	0.2
AR	33,310	240	377	4.2	891.2	891.2	891.5	0.3
AS	33,820	101	262	6.1	894.1	894.1	894.4	0.3
AT	34,195	100	213	7.5	897.5	897.5	897.5	0.0
AU	34,480	130	234	6.8	902.9	902.9	902.9	0.0

<sup>1</sup> Feet Above Confluence with Escondido Creek

TABLE 13

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

**FLOODWAY DATA**

**REIDY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY <sup>2</sup>	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Rice Canyon Creek								
A	1,560	70	380	3.7	45.0	41.4	41.8	0.4
B	1,978	45	182	7.7	47.3	42.2	42.4	0.2

<sup>1</sup> Feet Above Confluence with Sweetwater River

<sup>2</sup> Elevations Controlled by Influence from Sweetwater River

TABLE 13

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

FLOODWAY DATA

RICE CANYON CREEK



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Samagutuma Creek								
A	415	123	674	13.2	3,400.9	3,400.9	3,400.9	0.0
B	665	125	669	13.3	3,403.2	3,403.2	3,403.2	0.0
C	1,015	95	759	11.7	3,406.2	3,406.2	3,406.2	0.0
D	1,525	70	553	16.1	3,411.1	3,411.1	3,411.1	0.0
E	1,773	77	584	15.3	3,414.0	3,414.0	3,414.0	0.0
F	1,873	69	553	16.1	3,428.5	3,428.5	3,428.5	0.0
G	2,115	101	626	14.2	3,456.5	3,456.5	3,456.5	0.0
H	2,445	92	804	11.1	3,459.9	3,459.9	3,459.9	0.0
I	2,698	63	585	15.2	3,460.2	3,460.2	3,460.2	0.0
J	2,896	85	751	11.8	3,462.9	3,462.9	3,462.9	0.0
K	2,936	170	744	12.0	3,472.6	3,472.6	3,473.5	0.9
L	3,126	120	663	13.4	3,478.0	3,478.0	3,479.0	1.0
M	3,386	95	717	12.4	3,480.7	3,480.7	3,481.7	1.0
N	3,536	92	611	14.6	3,482.4	3,482.4	3,482.5	0.1
O	3,679	90	1,071	8.3	3,486.1	3,486.1	3,486.1	0.0
P	3,899	90	1,062	8.4	3,486.1	3,486.1	3,486.1	0.0
Q	4,174	64	534	16.7	3,490.5	3,490.5	3,490.5	0.0
R	4,350	95	1,086	5.0	3,495.1	3,495.1	3,495.1	0.0
S	4,810	125	486	11.1	3,498.1	3,498.1	3,498.1	0.0
T	4,950	91	500	10.8	3,499.3	3,499.3	3,499.3	0.0
U	5,043	91	588	9.2	3,500.4	3,500.4	3,500.4	0.0
V	5,208	95	449	12.0	3,501.2	3,501.2	3,501.2	0.0
W	5,901	103	576	9.4	3,506.9	3,506.9	3,506.9	0.0
X	6,221	61	377	14.3	3,510.6	3,510.6	3,510.6	0.0
Y	6,261	64	427	12.7	3,511.3	3,511.3	3,511.3	0.0
Z	6,391	180	892	6.1	3,514.0	3,514.0	3,514.0	0.0

<sup>1</sup> Feet Above Confluence with Sweetwater River (Descanso Area)

TABLE 13

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

**FLOODWAY DATA**

**SAMAGUTUMA CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Samagutuma Creek (cont'd)								
AA	6,781	91	433	12.5	3,518.2	3,518.2	3,518.2	0.0
AB	6,971	71	396	13.6	3,537.6	3,537.6	3,537.6	0.0
AC	7,791	51	437	12.3	3,551.8	3,551.8	3,551.8	0.0
AD	8,271	90	444	12.2	3,559.3	3,559.3	3,559.4	0.1
AE	8,771	80	500	10.8	3,565.9	3,565.9	3,566.4	0.5
AF	9,231	100	477	11.3	3,570.6	3,570.6	3,570.9	0.3
AG	9,531	90	431	12.5	3,578.8	3,578.8	3,578.8	0.0
AH	10,011	80	414	13.0	3,585.8	3,585.8	3,585.8	0.0
AI	10,491	107	459	11.8	3,595.1	3,595.1	3,595.1	0.0
AJ	10,771	121	478	11.3	3,603.9	3,603.9	3,603.9	0.0
AK	11,071	75	405	13.3	3,612.3	3,612.3	3,612.4	0.1
AL	11,471	113	464	11.6	3,624.1	3,624.1	3,624.1	0.0
AM	11,801	61	380	14.2	3,642.4	3,642.4	3,642.5	0.1
AN	12,329	91	432	12.5	3,668.1	3,668.1	3,668.1	0.0
AO	12,538	64	387	13.9	3,693.8	3,693.8	3,693.8	0.0

<sup>1</sup> Feet Above Confluence with Sweetwater River (Descanso Area)

TABLE 13

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

FLOODWAY DATA

**SAMAGUTUMA CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Diego River								
ZT	2,028	920	8,370	4.3	10.5	10.5	10.5	0.0
ZU	7,268	894	9,057	4.0	12.3	12.3	12.3	0.0
ZV	14,028	865	7,381	4.9	14.7	14.7	14.7	0.0
ZW	19,598	876	8,833	5.7	21.8	21.8	21.8	0.0
ZX	23,862	898	6,677	5.9	26.5	26.5	26.5	0.0
ZY	25,563	952	5,972	8.0	28.2	28.2	28.8	0.6
ZZ	26,433	1,180	8,882	4.7	30.1	30.1	30.4	0.3
A	27,462	830	3,439	12.3	31.4	31.4	31.4	0.0
B	27,654	877	4,920	4.5	33.2	33.2	33.2	0.0
C	27,882	775	5,051	4.9	34.0	34.0	34.0	0.0
D	28,791	531	5,828	3.6	35.8	35.8	35.8	0.0
E	29,173	619	6,351	4.0	36.7	36.7	36.7	0.0
F	29,624	601	5,266	5.2	37.2	37.2	37.2	0.0
G	31,782	352	6,440	5.6	38.3	38.3	39.3	1.0
H	33,732	405	6,258	5.8	41.5	41.5	41.9	0.4
I	35,769	337	6,058	5.9	42.8	42.8	43.1	0.3
J	37,116	336	6,148	5.9	46.3	46.3	46.4	0.1
K	38,574	415	7,545	4.8	47.6	47.6	47.6	0.0
L	41,149	432	8,647	4.2	48.7	48.7	48.7	0.0
M	43,814	538	4,900	7.6	53.8	53.8	54.1	0.3
N	45,704	303	3,144	11.5	57.8	57.8	57.8	0.0
O	48,553	828	11,269	3.2	66.5	66.5	66.6	0.1
P	51,043	360	4,444	8.1	71.4	71.4	71.7	0.3
Q	52,448	462	6,382	5.6	72.7	72.7	73.2	0.5
R	53,280	372	5,667	6.4	73.7	73.7	74.2	0.5
S	53,766	470	4,478	8.1	73.7	73.7	74.2	0.5

<sup>1</sup> Feet Above Pacific Ocean

TABLE 13

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

**FLOODWAY DATA**

**SAN DIEGO RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Diego River (cont'd)								
T	54,319 <sup>1</sup>	229	2,166	16.6	76.8	76.8	76.8	0.0
U	56,074 <sup>1</sup>	659	7,841	4.6	90.1	90.1	90.1	0.0
V	58,207 <sup>1</sup>	305	4,851	7.4	90.4	90.4	90.8	0.0
W	59,830 <sup>1</sup>	679	10,284	3.5	91.4	91.4	91.9	0.0
X	60,500 <sup>1</sup>	407	2,847	12.6	91.1	91.1	91.3	0.0
Y	61,250 <sup>1</sup>	331	3,185	11.3	95.5	95.5	96.3	0.0
Z	61,705 <sup>1</sup>	346	4,382	8.2	98.8	98.8	98.8	0.0
AA	63,575 <sup>1</sup>	472	3,677	9.8	104.6	104.6	104.8	0.0
AB	65,927 <sup>1</sup>	132	1,954	18.4	114.1	114.1	114.1	0.0
AC	66,802 <sup>1</sup>	246	3,024	11.9	121.6	121.6	121.6	0.0
AD	67,180 <sup>1</sup>	233	3,259	11.0	123.1	123.1	123.1	0.0
AE	68,438 <sup>1</sup>	153	2,402	15.0	130.3	130.3	130.3	0.0
AF	0 <sup>2</sup>	280	4,770	7.9	291.5	291.5	292.5	0.0
AG	98 <sup>2</sup>	280	4,243	8.9	293.9	293.9	294.6	0.0
AH	618 <sup>2</sup>	275	5,118	7.4	297.8	297.8	298.6	0.0
AI	1,170 <sup>2</sup>	270	5,075	7.5	299.7	299.7	300.7	0.0
AJ	1,710 <sup>2</sup>	545	8,606	4.4	301.5	301.5	302.4	0.0
AK	2,400 <sup>2</sup>	865	10,394	3.7	302.0	302.0	303.0	0.0
AL	2,750 <sup>2</sup>	1,045	11,054	3.4	302.2	302.2	303.2	0.0
AM	3,050 <sup>2</sup>	1,200	14,092	2.7	302.3	302.3	303.3	0.0
AN	3,600 <sup>2</sup>	1,290	17,618	2.2	302.5	302.5	303.5	0.0
AO	4,200 <sup>2</sup>	1,090	14,230	2.7	302.6	302.6	303.5	0.0
AP	4,550 <sup>2</sup>	1,040	11,769	3.2	302.6	302.6	303.6	0.0
AQ	5,000 <sup>2</sup>	970	8,438	4.5	302.9	302.9	303.8	0.0
AR	5,487 <sup>2</sup>	735	6,465	5.9	303.6	303.6	304.5	0.0
AS	5,900 <sup>2</sup>	660	5,790	6.6	304.8	304.8	305.8	0.0

<sup>1</sup> Feet Above Pacific Ocean

<sup>2</sup> Feet Above Limit of Detailed Study

TABLE 13

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

**FLOODWAY DATA**

**SAN DIEGO RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Diego River (cont'd)								
AT	6,220 <sup>1</sup>	498	5,410	7.0	306.7	306.7	307.3	0.6
AU	7,097 <sup>1</sup>	695	7,383	5.1	309.6	309.6	310.3	0.7
AV	8,128 <sup>1</sup>	600	5,647	6.7	311.7	311.7	312.6	0.9
AW	9,079 <sup>1</sup>	560	6,111	6.1	315.3	315.3	315.6	0.3
AX	10,100 <sup>1</sup>	1,300	12,607	3.0	317.0	317.0	317.3	0.3
AY	11,441 <sup>1</sup>	1,557	10,122	3.8	318.3	318.3	318.6	0.3
AZ	12,095 <sup>1</sup>	1,470	9,785	3.9	319.5	319.5	319.8	0.3
BA	12,800 <sup>1</sup>	1,545	9,949	3.7	320.2	320.2	320.4	0.2
BB	14,100 <sup>1</sup>	799	-- <sup>2</sup>	-- <sup>2</sup>	321.3	321.3	321.5	0.2
BC	14,889 <sup>1</sup>	930	-- <sup>2</sup>	-- <sup>2</sup>	323.2	323.2	323.3	0.1
BD	15,927 <sup>1</sup>	875	-- <sup>2</sup>	-- <sup>2</sup>	329.1	329.1	329.1	0.0
BE	16,611 <sup>1</sup>	990	-- <sup>2</sup>	-- <sup>2</sup>	329.7	329.7	329.7	0.0
BF	17,629 <sup>1</sup>	728	-- <sup>2</sup>	-- <sup>2</sup>	330.5	330.5	331.2	0.7
BG	19,199 <sup>1</sup>	775	-- <sup>2</sup>	-- <sup>2</sup>	334.5	334.5	335.0	0.5
BH	19,945 <sup>1</sup>	462	-- <sup>2</sup>	-- <sup>2</sup>	335.5	335.5	336.1	0.6
BI	20,798 <sup>1</sup>	995	-- <sup>2</sup>	-- <sup>2</sup>	338.4	338.4	338.4	0.0
BJ	21,874 <sup>1</sup>	1,000	-- <sup>2</sup>	-- <sup>2</sup>	342.5	342.5	342.5	0.0
BK	22,720 <sup>1</sup>	1,011	-- <sup>2</sup>	-- <sup>2</sup>	342.6	342.6	342.7	0.1
BL	23,476 <sup>1</sup>	950	-- <sup>2</sup>	-- <sup>2</sup>	347.4	347.4	348.1	0.7
BM	24,294 <sup>1</sup>	575	-- <sup>2</sup>	-- <sup>2</sup>	348.5	348.5	349.0	0.5
BN	25,555 <sup>1</sup>	655	-- <sup>2</sup>	-- <sup>2</sup>	350.4	350.4	350.6	0.2
BO	26,863 <sup>1</sup>	512	-- <sup>2</sup>	-- <sup>2</sup>	350.7	350.7	350.9	0.2
BP	28,470 <sup>1</sup>	737	-- <sup>2</sup>	-- <sup>2</sup>	351.9	351.9	352.2	0.3
BQ	29,216 <sup>1</sup>	443	-- <sup>2</sup>	-- <sup>2</sup>	351.8	351.8	352.1	0.3
BR	29,954 <sup>1</sup>	417	-- <sup>2</sup>	-- <sup>2</sup>	352.4	352.4	352.7	0.3
BS	-1,359 <sup>3</sup>	391	6,448	5.1	364.5	364.5	364.5	0.0

<sup>1</sup> Feet Above Limit of Detailed Study

<sup>2</sup> Data Not Available

<sup>3</sup> Feet Above Riverford Bridge

TABLE 13

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

**FLOODWAY DATA**

**SAN DIEGO RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Diego River (cont'd)								
BT	-420	368	4,326	4.6	365.3	365.3	365.3	0.0
BU	250	375	5,147	6.4	367.4	367.4	367.4	0.0
BV	1,231	310	2,936	11.2	370.9	370.9	370.9	0.0
BW	2,408	595	11,947	3.0	375.1	375.1	375.1	0.0
BX	3,197	888	14,457	2.3	375.4	375.4	375.6	0.2
BY	4,487	503	8,458	3.8	377.0	377.0	377.2	0.2
BZ	6,307	521	6,535	4.9	383.0	383.0	383.2	0.2
CA	7,389	392	3,659	8.7	392.8	392.8	392.8	0.0
CB	8,667	505	6,521	4.9	397.3	397.3	397.3	0.0
CC	10,350	588	5,224	5.9	399.3	399.3	399.4	0.1

<sup>1</sup> Feet Above Riverford Bridge

TABLE 13

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

**FLOODWAY DATA**

**SAN DIEGO RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Dieguito River								
A	642	920	6,206	7.1	12.8	12.8	12.8	0.0
B	1,918	541	5,247	9.1	17.1	17.1	17.1	0.0
C	2,428	469	5,168	9.7	17.7	17.7	17.7	0.0
D	3,156	772	10,328	4.5	20.2	20.2	20.8	0.6
E	5,333	1,082	13,465	3.7	20.6	20.6	21.3	0.7

<sup>1</sup> Feet Above Mouth

TABLE 13

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

FLOODWAY DATA

**SAN DIEGUITO RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Elijo Creek								
A	0	335	916	2.3	14.8	11.6 <sup>2</sup>	12.6 <sup>2</sup>	1.0
B	1,105	227	498	4.2	18.6	18.6	19.0	0.4

<sup>1</sup> Feet Above San Elijo Lagoon

<sup>2</sup> Elevation Computed without Consideration of Backwater Effects From San Elijo Lagoon

TABLE 13

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

FLOODWAY DATA

**SAN ELIJO CREEK**



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Luis Rey River (At Oceanside)								
AA	37,967	696	5,939	8.6	84.5	84.5	84.5	0.0
AB	39,077	569	4,832	10.6	86.1	86.1	86.1	0.0
AC	39,988	486	4,549	11.2	89.6	89.6	89.6	0.0
AD	41,170	505	5,262	9.7	93.1	93.1	93.1	0.0
AE	41,902	845	7,143	7.1	94.9	94.9	94.9	0.0
AF	43,190	931	6,808	7.5	96.4	96.4	96.4	0.0
AG	43,984	898	8,150	6.3	97.8	97.8	97.9	0.1
AH	45,225	1,112	8,534	6.0	99.0	99.0	99.2	0.2
AI	46,961	909	4,652	11.0	102.9	102.9	102.9	0.0
AJ	48,039	760	4,523	11.3	106.3	106.3	106.3	0.0
AK	48,970	715	7,051	7.2	109.4	109.4	109.5	0.1
AL	50,002	862	5,170	9.9	110.6	110.6	110.8	0.2
AM	51,602	808	6,815	7.5	115.6	115.6	115.6	0.0
AN	53,234	992	6,850	7.4	118.3	118.3	118.3	0.0
AO	55,408	1,090	9,731	5.2	121.9	121.9	122.1	0.2
AP	56,382	938	7,533	6.8	122.9	122.9	123.2	0.3
AQ	58,139	575	6,140	8.3	127.4	127.4	127.4	0.0
AR	59,318	650/0	4,840	10.5	128.9	128.9	129.1	0.2

<sup>1</sup> Feet Above Mouth

TABLE 13

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

**FLOODWAY DATA**

**SAN LUIS REY RIVER (AT OCEANSIDE)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Marcos Creek - Highway 78 Split Flow								
A	1,980	460	500	4.9	547.7	547.7	547.7	0.0
B	2,640	286	593	4.1	550.6	550.6	550.6	0.0
C	4,310	304	1,775	2.3	562.9	562.9	562.9	0.0

<sup>1</sup> Feet Above Confluence with San Marcos Creek

TABLE 13

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

**FLOODWAY DATA**

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

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Lake San Marcos/ San Marcos Creek								
ZU	1,440 <sup>1</sup>	220	4,212	3.8	503.3	503.3	503.3	0.0
ZV	3,710 <sup>1</sup>	320	4,183	4.0	503.5	503.5	503.5	0.0
ZW	5,270 <sup>1</sup>	388	5,060	3.5	503.7	503.7	503.7	0.0
ZX	6,840 <sup>1</sup>	275	4,162	4.2	505.4	505.4	505.5	0.1
ZY	7,730 <sup>1</sup>	400	2,399	5.8	510.9	510.9	510.9	0.0
ZZ	8,400 <sup>1</sup>	450	1,793	8.6	513.1	513.1	513.2	0.1
San Marcos Creek								
A	1,770 <sup>2</sup>	500	3,145	4.7	517.6	517.6	518.2	0.6
B	3,420 <sup>2</sup>	200	1,679	7.8	523.1	523.1	523.4	0.3
C	5,090 <sup>2</sup>	590	3,181	4.1	528.6	528.6	529.2	0.6
D	6,877 <sup>2</sup>	800	4,417	3.0	536.3	536.3	536.9	0.6
E	8,077 <sup>2</sup>	559	2,198	4.1	541.4	541.4	541.4	0.0
F	9,367 <sup>2</sup>	510	1,720	5.3	544.3	544.3	544.3	0.0
G	10,855 <sup>2</sup>	407	1,931	4.7	552.5	552.5	552.5	0.0
H	12,245 <sup>2</sup>	300	1,742	7.2	563.1	563.1	563.1	0.0
I	13,655 <sup>2</sup>	252	2,087	6.0	567.7	567.7	568.4	0.7
J	14,920 <sup>2</sup>	245	2,079	2.5	574.8	574.8	574.8	0.0
K	15,657 <sup>2</sup>	220	1,043	4.2	576.5	576.5	576.5	0.0
L	16,782 <sup>2</sup>	175	1,164	4.9	589.6	589.6	589.6	0.0
M	18,222 <sup>2</sup>	130	436	10.1	596.5	596.5	596.6	0.1
N	19,614 <sup>2</sup>	227	681	6.5	610.1	610.1	610.6	0.5
O	20,585 <sup>2</sup>	103	630	7.0	619.7	619.7	620.7	1.0
P	21,225 <sup>2</sup>	181	760	5.8	624.3	624.3	625.3	1.0

<sup>1</sup> Feet Above San Marcos Dam

<sup>2</sup> Feet Above Lake San Marcos

TABLE 13

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

**FLOODWAY DATA**

**LAKE SAN MARCOS/SAN MARCOS CREEK -  
 SAN MARCOS CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Maria Creek (San Pasqual Valley Area)								
A	1,240	372	2,040	12.7	373.3	373.3	373.3	0.0
B	2,390	464	2,703	9.6	378.1	378.1	378.1	0.0
C	3,545	329	2,178	11.9	382.8	382.8	382.8	0.0
D	3,826	291	2,133	12.2	384.3	384.3	384.3	0.0
E	4,013	635	4,565	5.7	387.1	387.1	387.2	0.1
F	4,717	567	2,527	8.3	387.9	387.9	388.1	0.2
G	5,409	248	1,867	10.2	390.4	390.4	390.4	0.0
H	6,145	188	1,348	14.1	392.0	392.0	392.1	0.1
I	7,765	244	2,301	8.3	398.5	398.5	398.7	0.2
J	8,411	170	1,716	1.1	399.5	399.5	399.7	0.2
K	8,481	195	1,814	10.5	399.8	399.8	400.0	0.2
L	9,232	348	4,006	4.7	402.2	402.2	402.3	0.1
M	10,140	176	1,761	10.8	402.5	402.5	402.7	0.2

<sup>1</sup> Feet Above Confluence with Santa Ysabel Creek

TABLE 13

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

**FLOODWAY DATA**

**SANTA MARIA CREEK (SAN PASQUAL VALLEY AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Maria Creek (Santa Maria Valley Area)								
A	375	311	2,726	6.4	1,317.9	1,317.9	1,318.9	1.0
B	950	142	1,300	13.3	1,320.1	1,320.1	1,320.3	0.2
C	1,355	140	1,425	12.1	1,326.1	1,326.1	1,327.1	1.0
D	2,035	323	3,562	4.9	1,329.0	1,329.0	1,329.8	0.8
E	3,165	248	2,291	7.6	1,332.5	1,332.5	1,332.9	0.4
F	3,845	368	3,194	5.4	1,333.9	1,333.9	1,334.2	0.3
G	4,710	216	1,979	8.7	1,334.6	1,334.6	1,335.5	0.9
H	5,950	379	2,095	8.3	1,338.1	1,338.1	1,339.0	0.9
I	6,680	464	3,187	5.4	1,340.3	1,340.3	1,341.3	1.0
J	7,980	630	3,380	5.1	1,343.8	1,343.8	1,344.1	0.3
K	8,575	710	3,350	5.2	1,344.4	1,344.4	1,344.9	0.5
L	8,680	671	2,542	6.8	1,344.5	1,344.5	1,345.0	0.5
M	9,380	690	3,012	5.7	1,347.5	1,347.5	1,347.9	0.4
N	11,060	838	4,107	4.2	1,351.0	1,351.0	1,352.0	1.0
O	12,270	854	3,686	4.7	1,353.4	1,353.4	1,354.4	1.0
P	13,450	649	2,714	6.4	1,356.9	1,356.9	1,357.9	1.0
Q	14,040	749	3,653	4.7	1,358.5	1,358.5	1,359.5	1.0
R	14,485	525	2,532	6.8	1,359.3	1,359.3	1,360.3	1.0
S	15,110	894	4,372	4.0	1,361.0	1,361.0	1,362.0	1.0
T	16,430	470	1,642	10.5	1,364.3	1,364.3	1,364.3	0.0
U	16,930	875	3,804	4.6	1,369.0	1,369.0	1,369.0	0.0
V	17,760	704	2,995	5.8	1,371.0	1,371.0	1,372.0	1.0
W	18,710	1,090	5,200	3.3	1,372.7	1,372.7	1,373.7	1.0
X	19,295	719	2,386	7.3	1,373.4	1,373.4	1,374.2	0.8
Y	20,720	300	2,013	7.8	1,379.1	1,379.1	1,380.0	0.9

<sup>1</sup> Feet Above Downstream Limit of Detailed Study

TABLE 13

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

**FLOODWAY DATA**

**SANTA MARIA CREEK (SANTA MARIA VALLEY AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Maria Creek (Santa Maria Valley Area) (cont'd)								
Z	21,070	465	2,040	7.7	1,380.7	1,380.7	1,381.5	0.8
AA	21,620	392	2,250	6.9	1,383.5	1,383.5	1,383.7	0.2
AB	22,450	407	2,170	7.2	1,385.9	1,385.9	1,386.0	0.1
AC	23,055	300	1,665	9.4	1,387.3	1,387.3	1,388.2	0.9
AD	23,605	396	2,328	6.7	1,391.3	1,391.3	1,391.3	0.0
AE	24,120	304	2,105	7.4	1,393.5	1,393.5	1,393.8	0.3
AF	25,330	515	3,253	4.8	1,397.5	1,397.5	1,398.1	0.6
AG	26,220	570	2,359	6.6	1,401.0	1,401.0	1,401.1	0.1
AH	26,840	530	2,648	5.9	1,403.4	1,403.4	1,404.0	0.6
AI	28,750	820	4,379	3.6	1,409.8	1,409.8	1,410.7	0.9
AJ	28,850	930	5,142	3.0	1,410.5	1,410.5	1,411.3	0.8
AK	30,130	460	2,216	7.0	1,413.7	1,413.7	1,414.0	0.3
AL	30,630	565	2,455	6.4	1,415.2	1,415.2	1,416.2	1.0
AM	31,160	527	2,449	6.4	1,417.1	1,417.1	1,418.0	0.9
AN	31,905	610	3,146	5.0	1,421.3	1,421.3	1,422.1	0.8
AO	32,200	395	811	11.2	1,421.3	1,421.3	1,421.9	0.6
AP	32,500	231	1,595	9.8	1,422.9	1,422.9	1,422.9	0.0
AQ	32,590	238	2,166	7.2	1,424.3	1,424.3	1,425.3	1.0
AR	33,165	447	1,746	8.9	1,425.0	1,425.0	1,425.4	0.4
AS	33,985	250	1,545	10.1	1,427.6	1,427.6	1,428.5	0.9
AT	34,210	508	1,396	11.2	1,430.0	1,430.0	1,430.4	0.4
AU	34,290	560	3,697	4.2	1,432.2	1,432.2	1,432.9	0.7
AV	34,885	500	2,625	5.9	1,432.6	1,432.6	1,433.4	0.8
AW	36,090	435	1,751	8.9	1,437.0	1,437.0	1,437.5	0.5

<sup>1</sup> Feet Above Downstream Limit of Detailed Study

TABLE 13

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

**FLOODWAY DATA**

**SANTA MARIA CREEK (SANTA MARIA VALLEY AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Maria Creek (Santa Maria Valley Area) (cont'd)								
AX	36,515	548	2,277	6.9	1,439.7	1,439.7	1,439.9	0.2
AY	36,910	560	2,523	6.2	1,441.0	1,441.0	1,441.3	0.3
AZ	37,705	675	1,919	8.1	1,445.2	1,445.2	1,445.2	0.0
BA	38,435	610	2,250	6.9	1,448.6	1,448.6	1,449.6	1.0
BB	39,175	640	1,878	8.3	1,453.5	1,453.5	1,454.3	0.8
BC	39,790	500	1,888	8.3	1,458.4	1,458.4	1,458.7	0.3
BD	40,440	234	684	6.1	1,463.6	1,463.6	1,463.6	0.0
BE	41,660	90	357	11.5	1,478.5	1,478.5	1,478.5	0.0
BF	42,050	165	753	5.4	1,481.9	1,481.9	1,482.9	1.0
BG	42,490	77	345	11.6	1,487.2	1,487.2	1,487.8	0.6
BH	42,990	105	499	8.0	1,493.0	1,493.0	1,493.1	0.1
BI	43,440	105	418	9.3	1,498.0	1,498.0	1,498.6	0.6
BJ	44,170	350	564	6.9	1,505.6	1,505.6	1,505.7	0.1
BK	44,570	445	547	7.0	1,509.7	1,509.7	1,509.8	0.1
BL	44,990	340	188	8.0	1,515.0	1,515.0	1,515.6	0.6
BM	45,090	290	1,094	1.4	1,518.8	1,518.8	1,519.7	0.9
BN	45,295	210	485	3.1	1,518.8	1,518.8	1,519.7	0.9
BO	45,380	180	380	4.0	1,519.2	1,519.2	1,519.8	0.6
BP	45,840	27	81	6.2	1,526.3	1,526.3	1,526.3	0.0
BQ	46,410	22	56	8.9	1,534.9	1,534.9	1,534.9	0.0
BR	47,350	80	84	6.0	1,551.0	1,551.0	1,551.0	0.0
BS	47,580	220	141	3.6	1,554.0	1,554.0	1,554.0	0.0
BT	48,320	65	254	11.0	1,564.9	1,564.9	1,565.2	0.3
BU	48,680	92	265	10.6	1,569.0	1,569.0	1,569.0	0.0

<sup>1</sup> Feet Above Downstream Limit of Detailed Study

TABLE 13

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

**FLOODWAY DATA**

**SANTA MARIA CREEK (SANTA MARIA VALLEY AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Maria Creek (Santa Maria Valley Area) (cont'd)								
BV	49,190	70	357	7.8	1,583.0	1,583.0	1,583.7	0.7
BW	49,645	55	238	11.7	1,589.7	1,589.7	1,589.7	0.0
BX	49,865	102	315	8.9	1,592.6	1,592.6	1,593.2	0.6
BY	50,280	115	304	9.2	1,597.7	1,597.7	1,597.9	0.2
BZ	50,605	80	299	9.4	1,602.1	1,602.1	1,602.1	0.0
CA	51,105	120	452	6.2	1,610.2	1,610.2	1,610.2	0.0
CB	51,345	93	282	10.0	1,614.8	1,614.8	1,614.8	0.0
CC	51,830	100	237	11.8	1,619.7	1,619.7	1,619.7	0.0
CD	52,040	143	742	3.8	1,629.7	1,629.7	1,629.7	0.0
CE	52,561	90	496	5.6	1,634.8	1,634.8	1,635.6	0.8

<sup>1</sup>Feet Above Downstream Limit of Detailed Study

TABLE 13

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

**FLOODWAY DATA**

**SANTA MARIA CREEK (SANTA MARIA VALLEY AREA)**



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Ysabel Creek								
A	2,260	1,860	8,526	6.9	327.9	320.1 <sup>2</sup>	320.1 <sup>2</sup>	0.0
B	3,390	1,959	8,720	6.7	327.9	322.5 <sup>2</sup>	322.5 <sup>2</sup>	0.0
C	5,589	1,636	8,854	6.6	327.9	326.2 <sup>2</sup>	326.5 <sup>2</sup>	0.3
D	7,679	1,901	12,371	4.7	328.6	328.6	329.0	0.4
E	9,314	1,557	9,148	6.3	330.4	330.4	330.9	0.5
F	11,012	1,696	11,414	5.0	332.8	332.8	333.3	0.5
G	13,000	2,034	11,040	5.2	334.7	334.7	335.2	0.5
H	14,570	1,677	7,694	7.4	337.1	337.1	337.5	0.4
I	16,736	1,012	6,911	8.3	342.4	342.4	342.5	0.1
J	17,731	1,582	10,376	5.5	344.6	344.6	344.7	0.1
K	19,544	1,306	8,711	6.6	347.4	347.4	347.5	0.1
L	20,809	1,031	5,758	9.9	349.5	349.5	349.6	0.1
M	21,098	1,100	6,974	8.2	350.7	350.7	350.9	0.2
N	22,561	605	4,851	11.8	354.8	354.8	354.8	0.0
O	23,581	1,209	9,251	6.0	357.8	357.8	358.0	0.2
P	24,641	1,068	5,570	9.9	359.3	359.3	359.3	0.0
Q	25,604	821	6,483	8.5	362.0	362.0	362.1	0.1
R	27,226	960	4,792	11.5	365.9	365.9	365.9	0.0
S	29,698	570	4,982	11.1	371.8	371.8	372.0	0.2
T	30,619	303	2,645	11.5	373.4	373.4	373.6	0.2
U	31,689	387	2,257	13.2	375.8	375.8	376.0	0.2
V	32,839	300	2,006	14.9	380.9	380.9	381.0	0.1
W	33,231	400	2,665	11.2	385.0	385.0	385.3	0.3
X	33,381	955	5,225	5.7	387.1	387.1	387.2	0.1
Y	34,151	931	4,636	7.5	387.7	387.7	387.8	0.1
Z	35,014	643	3,509	10.5	388.8	388.8	389.1	0.3

<sup>1</sup> Feet Above Upstream Face of Interstate Highway 15 Bridge

<sup>2</sup> Elevation Computed without Consideration of Backwater From Lake Hodges

TABLE 13

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

FLOODWAY DATA

**SANTA YSABEL CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Ysabel Creek (cont'd)								
AA	36,182 <sup>1</sup>	512	3,150	11.7	392.5	392.5	392.6	0.1
AB	37,261 <sup>1</sup>	379	2,681	13.8	395.5	395.5	395.6	0.1
AC	38,896 <sup>1</sup>	501	2,997	12.3	403.2	403.2	403.2	0.0
AD	41,008 <sup>1</sup>	395	3,211	11.5	411.5	411.5	412.0	0.5
AE	41,913 <sup>1</sup>	789	5,815	6.3	415.8	415.8	415.9	0.1
AF	43,463 <sup>1</sup>	420	2,511	12.2	419.7	419.7	420.0	0.3
AG	44,287 <sup>1</sup>	260	2,540	12.0	424.6	424.6	424.6	0.0
AH	44,367 <sup>1</sup>	254	2,757	11.1	427.6	427.6	427.7	0.1
AI	45,142 <sup>1</sup>	394	4,284	7.1	430.2	430.2	430.2	0.0
AJ	46,646 <sup>1</sup>	349	3,269	9.0	433.5	433.5	433.5	0.0
AK	48,141 <sup>1</sup>	408	3,808	7.7	438.2	438.2	438.3	0.1
AL	49,249 <sup>1</sup>	173	1,874	15.7	440.7	440.7	440.7	0.0
AM	49,929 <sup>1</sup>	318	4,219	7.0	445.3	445.3	445.3	0.0
AN	51,029 <sup>1</sup>	212	1,602	18.4	445.8	445.8	445.8	0.0
AO	15,500 <sup>2</sup>	274	1,973	10.5	2,812.8	2,812.8	2,813.8	1.0
AP	15,950 <sup>2</sup>	297	1,591	13.0	2,816.4	2,816.4	2,816.4	0.0
AQ	16,370 <sup>2</sup>	284	1,908	10.9	2,819.9	2,819.9	2,820.1	0.2
AR	16,825 <sup>2</sup>	231	1,467	14.1	2,822.8	2,822.8	2,822.8	0.0
AS	17,282 <sup>2</sup>	184	1,352	15.3	2,828.0	2,828.0	2,828.0	0.0
AT	17,762 <sup>2</sup>	296	2,122	9.8	2,833.2	2,833.2	2,833.2	0.0
AU	18,116 <sup>2</sup>	205	1,424	14.6	2,837.6	2,837.6	2,837.6	0.0
AV	18,586 <sup>2</sup>	592	2,326	8.9	2,843.1	2,843.1	2,843.1	0.0
AW	19,056 <sup>2</sup>	321	1,611	12.9	2,847.1	2,847.1	2,847.1	0.0
AX	19,559 <sup>2</sup>	387	1,958	10.6	2,852.2	2,852.2	2,852.2	0.0
AY	20,046 <sup>2</sup>	178	1,217	15.0	2,858.0	2,858.0	2,858.0	0.0
AZ	20,501 <sup>2</sup>	318	1,860	9.8	2,862.8	2,862.8	2,862.8	0.0

<sup>1</sup> Feet Above Upstream Face of Interstate Highway 15 Bridge

<sup>2</sup> Feet Above Confluence with Witch Creek

TABLE 13

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

**FLOODWAY DATA**

**SANTA YSABEL CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Ysabel Creek (cont'd)								
BA	21,011	267	1,492	12.2	2,868.7	2,868.7	2,868.7	0.0
BB	21,372	199	1,251	14.6	2,873.2	2,873.2	2,873.2	0.0
BC	21,847	154	1,176	15.5	2,885.5	2,885.5	2,885.5	0.0
BD	22,191	260	1,353	13.5	2,889.8	2,889.8	2,889.8	0.0
BE	22,541	142	1,124	16.2	2,896.4	2,896.4	2,896.4	0.0
BF	22,901	335	1,669	10.9	2,900.7	2,900.7	2,900.7	0.0
BG	23,351	149	971	14.5	2,905.8	2,905.8	2,905.8	0.0
BH	23,591	301	1,281	11.0	2,909.7	2,909.7	2,909.7	0.0
BI	23,851	38	615	22.9	2,923.7	2,923.7	2,923.7	0.0
BJ	23,881	77	1,382	10.2	2,932.2	2,932.2	2,932.2	0.0
BK	23,951	407	6,366	2.2	2,932.4	2,932.4	2,933.4	1.0
BL	24,933	135	952	14.8	2,941.5	2,941.5	2,941.5	0.0
BM	25,279	101	871	16.2	2,952.5	2,952.5	2,952.5	0.0
BN	25,669	132	941	15.0	2,960.1	2,960.1	2,960.1	0.0
BO	26,059	250	1,203	11.7	2,970.4	2,970.4	2,970.6	0.2
BP	26,509	327	1,318	10.7	2,982.5	2,982.5	2,982.5	0.0
BQ	26,809	124	919	15.3	2,995.3	2,995.3	2,995.3	0.0

<sup>1</sup> Feet Above Confluence with Witch Creek

TABLE 13

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

FLOODWAY DATA

**SANTA YSABEL CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Vicente Creek								
A	0	1,059	3,472	4.6	413.8	413.8	413.8	0.0
B	250	1,234	3,178	5.0	414.6	414.6	414.7	0.1
C	570	1,224	3,446	4.6	415.5	415.5	415.8	0.3
D	1,120	1,479	4,130	3.9	417.2	417.2	417.5	0.3
E	1,680	1,230	3,654	4.4	418.9	418.9	419.6	0.7
F	2,220	1,212	4,569	3.5	420.2	420.2	421.2	1.0
G	2,670	1,221	4,008	4.0	421.4	421.4	422.1	0.7
H	3,405	1,731	4,294	3.7	423.3	423.3	424.1	0.8
I	3,925	915	3,152	5.1	425.2	425.2	426.1	0.9
J	4,425	804	3,698	4.3	427.3	427.3	428.2	0.9
K	4,795	971	3,688	4.3	428.4	428.4	429.3	0.9
L	5,255	1,071	3,901	4.1	429.9	429.9	430.8	0.9
M	5,685	1,210	3,819	4.2	431.2	431.2	432.1	0.9
N	5,885	1,230	3,590	4.5	431.8	431.8	432.7	0.9
O	6,085	1,102	3,511	4.6	432.6	432.6	433.5	0.9
P	6,405	1,207	3,903	4.1	433.6	433.6	434.5	0.9
Q	7,025	934	2,602	6.2	435.6	435.6	436.4	0.8
R	7,540	1,224	3,776	4.2	437.9	437.9	438.9	1.0
S	8,280	1,301	4,126	3.9	440.0	440.0	440.9	0.9
T	8,480	1,268	3,591	4.5	440.5	440.5	441.4	0.9
U	8,670	1,315	4,142	3.9	441.5	441.5	442.1	0.6
V	9,070	1,128	3,412	3.8	442.8	442.8	443.7	0.9
W	9,720	948	2,473	5.3	444.3	444.3	445.2	0.9
X	10,460	994	3,500	3.7	447.0	447.0	447.9	0.9
Y	10,830	860	2,982	4.4	449.2	449.2	450.1	0.9
Z	11,130	758	2,662	4.9	450.0	450.0	450.9	0.9

<sup>1</sup>Feet Above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**SAN VICENTE CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
San Vicente Creek (cont'd)								
AA	11,460	666	2,339	5.6	451.1	451.1	452.0	0.9
AB	11,850	702	2,551	5.1	452.5	452.5	453.5	1.0
AC	12,090	699	2,432	5.3	453.4	453.4	454.4	1.0
AD	12,310	580	2,828	4.6	454.3	454.3	455.2	0.9
AE	12,475	605	2,850	4.6	454.8	454.8	455.7	0.9
AF	12,630	595	2,730	4.8	455.4	455.4	456.3	0.9
AG	12,800	559	2,397	5.4	456.2	456.2	457.1	0.9
AH	13,000	397	2,155	6.0	457.2	457.2	458.1	0.9
AI	13,365	828	3,361	3.9	458.3	458.3	459.3	1.0
AJ	13,855	303	1,182	11.0	463.0	463.0	463.3	0.3
AK	14,105	387	3,734	3.5	465.2	465.2	465.6	0.4
AL	14,325	194	1,373	9.5	465.2	465.2	465.6	0.4
AM	15,035	133	701	14.4	471.9	471.9	472.0	0.1

<sup>1</sup> Feet Above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**SAN VICENTE CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Slaughterhouse Creek								
A	1,800	80	407	6.0	449.1	449.1	449.1	0.0
B	2,780	407	1,947	1.3	454.0	454.0	454.0	0.0
C	2,910	285	1,258	1.9	457.3	457.3	457.3	0.0
D	3,181	100	658	3.7	457.4	457.4	457.6	0.2
E	3,903	190	399	6.1	459.2	459.2	459.6	0.4
F	3,979	166	698	3.5	462.3	462.3	463.0	0.7
G	4,223	120	814	3.2	462.6	462.6	463.2	0.6
H	4,496	165	924	2.7	462.8	462.8	463.4	0.6
I	4,607	124	541	4.5	463.0	463.0	463.9	0.9
J	4,692	126	633	3.9	463.0	463.0	464.0	0.9
K	5,271	97	238	7.9	470.4	470.4	470.6	0.2
L	5,642	70	236	10.4	476.1	476.1	476.1	0.0
M	6,009	65	267	9.2	483.4	483.4	483.6	0.2
N	6,728	145	351	7.0	493.1	493.1	493.7	0.6
O	6,928	125	347	7.1	498.1	498.1	498.2	0.1
P	7,362	115	329	7.5	507.3	507.3	507.3	0.0
Q	7,621	108	301	8.2	510.7	510.7	510.7	0.0
R	7,885	156	338	7.3	515.4	515.4	515.5	0.1
S	8,155	135	333	7.4	523.9	523.9	524.0	0.1
T	8,458	139	360	6.8	530.3	530.3	530.5	0.2
U	8,744	175	387	6.3	537.4	537.4	537.4	0.0
V	9,144	127	318	7.7	548.6	548.6	548.7	0.1

<sup>1</sup> Feet Above Confluence with San Vicente Creek

TABLE 13

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

FLOODWAY DATA

**SLAUGHTERHOUSE CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Soledad Canyon								
A	0	299	3,230	7.1	12.9	12.9	12.9	0.0
B	1,060	1,459	14,582	1.6	13.9	13.9	13.9	0.0
C	1,510	1,490	11,041	2.1	13.9	13.9	13.9	0.0
D	2,080	1,320	8,236	2.8	13.9	13.9	13.9	0.0
E	2,530	1,290	10,649	2.2	14.1	14.1	14.3	0.2
F	3,430	1,320	12,044	1.9	14.1	14.1	14.4	0.3
G	4,340	1,610	13,502	1.7	14.2	14.2	14.5	0.3
H	5,090	1,830	11,040	2.1	14.2	14.2	14.5	0.3
I	5,440	2,009	13,024	1.8	14.3	14.3	14.6	0.3
J	5,870	1,970	16,383	1.4	14.3	14.3	14.7	0.4
K	6,320	1,750	14,397	1.6	14.4	14.4	14.8	0.4
L	6,480	1,729	14,479	1.3	14.4	14.4	14.8	0.4
M	7,120	1,510	11,307	1.7	14.4	14.4	14.8	0.4
N	8,460	1,053	4,979	3.9	14.4	14.4	14.8	0.4
O	8,950	988	5,234	3.7	15.0	15.0	15.3	0.3
P	9,490	1,164	6,140	3.2	15.6	15.6	15.8	0.2
Q	9,940	935	3,669	5.3	16.0	16.0	16.2	0.2
R	10,930	1,154	3,331	5.8	19.6	19.6	19.6	0.0
S	11,095	1,154	5,738	3.4	20.3	20.3	20.3	0.0
T	11,840	639	2,769	7.0	21.1	21.1	21.1	0.0
U	12,590	520	3,539	5.5	24.9	24.9	25.0	0.1
V	13,220	548	4,483	4.3	26.3	26.3	26.4	0.1
W	13,510	496	3,548	5.5	26.7	26.7	26.8	0.1
X	14,240	600	3,524	5.5	28.3	28.3	28.9	0.6
Y	14,673	780	4,661	4.2	29.5	29.5	30.1	0.6
Z	15,100	700	5,258	3.7	34.7	34.7	35.6	0.9

<sup>1</sup> Feet Above North Torrey Pines Road

TABLE 13

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

**FLOODWAY DATA**

**SOLEDAD CANYON**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Soledad Canyon (cont'd)								
AA	15,740	1,033	5,383	3.6	35.5	35.5	36.2	0.7
AB	16,140	1,075	6,622	2.9	36.2	36.2	36.7	0.5
AC	16,520	1,163	6,695	2.9	36.5	36.5	37.0	0.5
AD	16,810	789	4,278	4.6	36.8	36.8	37.2	0.4
AE	17,120	386	1,784	10.9	38.3	38.3	38.3	0.0
AF	17,420	373	2,273	2.9	40.8	40.8	41.2	0.4
AG	17,620	362	1,379	4.9	40.8	40.8	41.2	0.4
AH	18,060	352	1,813	3.7	42.6	42.6	42.6	0.0
AI	18,160	296	1,475	4.5	42.6	42.6	42.6	0.0
AJ	18,340	146	644	10.4	42.6	42.6	42.6	0.0
AK	18,850	310	1,324	5.1	45.6	45.6	45.6	0.0
AL	19,177	478	1,707	3.9	46.1	46.1	46.1	0.0
AM	19,427	656	2,247	3.0	46.7	46.7	46.7	0.0
AN	19,630	553	1,204	5.6	47.8	47.8	47.8	0.0
AO	20,220	335	1,005	6.7	53.1	53.1	53.1	0.0
AP	20,805	556	1,196	5.6	59.8	59.8	59.8	0.0
AQ	21,230	354	1,008	6.6	62.3	62.3	62.3	0.0
AR	21,480	421	1,495	4.5	64.4	64.4	64.4	0.0
AS	21,690	286	1,074	6.2	65.3	65.3	65.3	0.0

<sup>1</sup> Feet Above North Torrey Pines Road



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Branch Poway Creek								
A	65	700/743 <sup>2</sup>	3,333	1.1	554.8 <sup>3</sup>	554.5	554.5	0.0
B	895	691/727 <sup>2</sup>	1,032	3.3	557.5 <sup>3</sup>	557.0	557.2	0.2
C	1,915	500/797 <sup>2</sup>	585	5.9	564.0 <sup>3</sup>	563.9	563.9	0.0
D	2,895	110	258	7.0	575.9	575.9	576.3	0.4
E	3,615	117	236	7.6	586.6	586.6	586.6	0.0

<sup>1</sup> Feet Above Confluence with Poway Creek and North Branch Poway Creek

<sup>2</sup> Width/Total Width of North and South Branch Combined Floodway

<sup>3</sup> Elevations Controlled By Flooding From North Branch Poway Creek

TABLE 13

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

FLOODWAY DATA

**SOUTH BRANCH POWAY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Fork Moosa Canyon Creek								
A	350	171	1,547	3.4	442.8	442.8	443.8	1.0
B	561	87	703	7.4	445.6	445.6	446.2	0.6
C	3,406	84	431	12.1	470.3	470.3	470.3	0.0
D	3,942	234	995	4.8	475.3	475.3	475.9	0.6
E	4,829	94	839	5.7	486.1	486.1	486.9	0.8
F	5,260	214	867	7.0	488.0	488.0	488.6	0.6
G	5,611	90	519	9.2	489.7	489.7	489.9	0.2
H	6,470	190	603	11.4	497.3	497.3	497.3	0.0
I	7,812	75	319	12.5	509.6	509.6	509.6	0.0
J	8,024	46	281	14.2	511.9	511.9	511.9	0.0
K	8,520	198	552	7.3	517.4	517.4	517.8	0.4
L	8,920	190	654	4.9	521.0	521.0	521.3	0.3
M	9,408	45	283	11.3	523.2	523.2	523.2	0.0
N	9,697	30	266	12.0	527.2	527.2	527.3	0.1
O	10,841	38	205	14.6	535.4	535.4	536.4	1.0
P	11,176	49	272	11.0	538.0	538.0	538.0	0.0
Q	11,287	100	302	9.9	541.4	541.4	541.4	0.0

<sup>1</sup> Feet Above Confluence with Moosa Canyon Creek

TABLE 13

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

FLOODWAY DATA

**SOUTH FORK MOOSA CANYON CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Las Chollas Creek								
A-H	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>
I	5,410	57	468	11.3	27.6	27.6	28.6	1.0
J	6,000	45	441	12.0	31.9	31.9	32.5	0.6
K	6,950	64	762	7.0	37.9	37.9	38.9	1.0
L	7,200	86	741	7.6	37.9	37.9	38.9	1.0
M	8,200	65	420	12.6	41.2	41.2	41.3	0.1
N	9,030	90	822	6.5	51.9	51.9	51.9	0.0
O	9,280	89	751	7.1	52.3	52.3	52.3	0.0
P	10,080	83	573	9.3	57.3	57.3	57.3	0.0
Q	10,880	164	1,273	4.2	60.2	60.2	60.2	0.0
R	11,580	101	829	6.4	71.7	71.7	71.9	0.2
S	12,330	81	611	8.7	72.6	72.6	73.1	0.5
T	13,380	62	666	4.6	83.3	83.3	83.8	0.5
U	13,690	217	1,157	4.6	85.5	85.5	86.3	0.8
V	14,330	169	929	5.7	88.9	88.9	89.5	0.6
W	15,230	150	1,102	4.8	96.8	96.8	96.8	0.0
X	16,280	70	389	4.9	109.7	109.7	109.7	0.0
Y	16,730	50	309	6.1	113.8	113.8	114.4	0.6
Z	17,620	113	505	3.8	125.0	125.0	125.2	0.2
AA	18,270	34	159	11.9	132.3	132.3	132.4	0.1
AB-AC	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>
AD	19,930	36	203	9.3	155.9	155.9	156.7	0.8
AE	20,670	38	183	10.4	168.8	168.8	169.4	0.6
AF	21,350	23	122	12.3	182.2	182.2	182.9	0.7
AG	22,510	20	119	12.6	201.7	201.7	201.7	0.0
AH	23,550	61	177	8.5	218.8	218.8	219.6	0.8
AI	24,650	53	210	7.1	238.3	238.3	239.3	1.0
AJ	25,680	30	129	11.6	253.9	253.9	254.6	0.7
AK-AM	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>

<sup>1</sup> Feet Above Confluence with Las Chollas Creek

<sup>2</sup> Data Not Available

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
South Tributary to Santa Maria Creek								
A	1,540	470	2,670	2.2	1,369.7	1,369.7	1,369.7	0.0
B	2,163	444	2,687	2.2	1,369.9	1,369.9	1,369.9	0.0
C	3,047	377	1,583	3.7	1,370.2	1,370.2	1,371.1	0.9
D	3,991	414	1,323	4.4	1,372.2	1,372.2	1,372.6	0.4
E	4,525	310	1,082	5.4	1,373.8	1,373.8	1,374.8	1.0
F	5,514	405	1,498	3.9	1,377.4	1,377.4	1,378.4	1.0
G	6,142	706	1,476	3.9	1,378.4	1,378.4	1,379.3	0.9
H	6,272	790	3,611	1.6	1,381.6	1,381.6	1,381.8	0.2
I	7,132	567	960	3.8	1,381.8	1,381.8	1,382.8	1.0

<sup>1</sup> Feet Above Confluence with Santa Maria Creek

TABLE 13

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

FLOODWAY DATA

**SOUTH TRIBUTARY TO SANTA MARIA CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Steele Canyon Creek								
A	480	86	420	7.1	315.4	315.4	316.4	1.0
B	855	94	514	5.8	320.3	320.3	321.0	0.7
C	1,270	94	368	8.1	327.1	327.1	327.9	0.8
D	1,755	71	435	6.8	336.3	336.3	337.0	0.7
E	2,160	46	372	8.0	345.3	345.3	345.7	0.4
F	2,480	56	481	6.2	351.8	351.8	352.7	0.9
G	2,880	70	428	7.0	358.3	358.3	359.0	0.7
H	3,280	72	395	7.6	366.3	366.3	367.3	1.0
I	3,690	72	367	8.1	376.7	376.7	377.7	1.0
J	4,100	74	423	7.0	387.3	387.3	388.2	0.9
K	4,525	103	511	5.8	396.1	396.1	397.1	1.0
L	4,850	72	452	6.6	402.1	402.1	403.1	1.0
M	5,240	98	458	6.5	412.0	412.0	413.0	1.0
N	5,635	78	472	6.3	421.6	421.6	422.6	1.0
O	6,050	84	397	7.5	429.9	423.9	430.9	1.0
P	6,395	64	317	9.4	433.3	433.3	434.1	0.8
Q	6,800	82	307	9.7	441.5	441.5	442.4	0.9
R	7,150	43	228	13.1	448.5	448.5	448.9	0.4
S	7,545	46	233	12.8	458.2	458.2	458.2	0.0
T	7,890	59	252	11.8	462.3	462.3	462.3	0.0
U	8,270	70	268	11.1	472.4	472.4	472.8	0.4
V	8,314	90	403	7.4	476.0	476.0	476.0	0.0
W	8,589	60	371	8.0	477.5	477.5	478.4	0.9
X	8,904	69	281	10.6	484.4	484.4	484.7	0.3
Y	8,954	120	445	6.7	486.5	486.5	486.9	0.4
Z	9,234	130	423	7.0	492.9	492.9	493.2	0.3

<sup>1</sup> Feet Above Confluence with Sweetwater River

TABLE 13

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

FLOODWAY DATA

**STEELE CANYON CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Steele Canyon Creek (cont'd)								
AA	9,279	150	568	5.2	492.9	492.9	493.9	1.0
AB	9,599	70	198	9.2	500.2	500.2	500.2	0.0
AC	9,659	79	508	3.6	501.4	501.4	501.7	0.3
AD	9,984	100	265	6.9	507.7	507.7	508.3	0.6
AE	10,024	100	289	6.3	509.0	509.0	509.8	0.8
AF	10,454	47	202	9.0	515.1	515.1	515.4	0.3
AG	10,859	47	178	10.2	528.0	528.0	528.2	0.2
AH	11,284	51	223	8.2	535.3	535.3	535.7	0.4
AI	11,674	64	195	9.3	542.3	542.3	542.6	0.3
AJ	12,079	45	171	10.6	552.6	552.6	553.4	0.8
AK	12,499	120	410	4.4	558.6	558.6	559.5	0.9
AL	12,924	44	162	11.2	566.9	566.9	566.9	0.0
AM	13,314	48	177	10.3	576.1	576.1	577.1	1.0
AN	13,714	33	149	12.2	592.1	592.1	592.3	0.2
AO	14,049	55	287	6.3	601.1	601.1	602.0	0.9
AP	14,449	68	332	5.5	608.6	608.6	609.1	0.5
AQ	14,874	54	305	6.0	617.4	617.4	617.9	0.5
AR	15,214	80	418	4.4	623.1	623.1	623.8	0.7
AS	15,609	47	210	8.6	632.0	632.0	632.9	0.9
AT	15,994	34	216	8.4	649.0	649.0	649.5	0.5
AU	16,389	41	160	11.4	680.1	680.1	680.1	0.0
AV	16,604	48	316	5.8	686.1	686.1	686.9	0.8
AW	17,029	51	253	7.2	695.7	695.7	696.7	1.0
AX	17,394	42	269	6.8	706.4	706.4	706.8	0.4
AY	17,779	41	196	9.3	721.5	721.5	721.6	0.1
AZ	18,174	43	288	6.3	732.8	732.8	733.2	0.4

<sup>1</sup> Feet Above Confluence with Sweetwater River

TABLE 13

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

**FLOODWAY DATA**

**STEELE CANYON CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	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	747.7	747.7	747.7	0.0
BB	18,664	77	216	7.8	749.4	749.4	749.4	0.0
BC	19,024	76	393	4.3	756.1	756.1	757.1	1.0
BD	19,089	110	246	6.9	757.0	757.0	757.0	0.0
BE	19,359	170	423	4.0	765.1	765.1	766.1	1.0
BF	19,424	150	508	3.3	766.2	766.2	767.0	0.8
BG	19,694	112	670	2.5	767.5	767.5	768.3	0.8
BH	20,069	55	178	9.5	773.1	773.1	773.2	0.1
BI	20,114	60	240	7.0	775.4	775.4	775.9	0.5
BJ	20,554	52	315	5.4	783.8	783.8	784.0	0.2
BK	20,579	61	231	7.3	784.0	784.0	784.2	0.2
BL	20,939	23	167	10.1	792.9	792.9	793.7	0.8
BM	21,364	52	269	6.3	805.1	805.1	806.1	1.0

<sup>1</sup> Feet Above Confluence with Sweetwater River

TABLE 13

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

**FLOODWAY DATA**

**STEELE CANYON CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Stevenson Creek								
A	900	175	226	4.0	734.1	734.1	734.6	0.5
B	1,395	240	195	4.6	739.7	739.7	740.3	0.6
C	1,555	207	248	3.6	742.0	742.0	742.8	0.8
D	1,773	165	199	4.5	747.0	747.0	747.5	0.5
E	2,103	195	208	4.3	752.2	752.2	752.9	0.7
F	2,463	143	215	4.2	761.0	761.0	761.7	0.7
G	2,733	126	199	4.5	767.5	767.5	767.6	0.1
H	2,930	99	142	6.3	772.2	772.2	772.8	0.6
I	3,365	103	161	5.6	783.1	783.1	783.1	0.0
J	3,780	129	173	5.2	792.3	792.3	792.9	0.6
K	3,870	127	254	3.5	794.6	794.6	795.6	1.0
L	4,240	53	105	8.6	802.5	802.5	802.5	0.0
M	4,809	50	107	8.4	813.3	813.3	813.4	0.1
N	4,858	60	233	3.9	815.3	815.3	816.0	0.7
O	5,060	44	103	8.7	817.3	817.3	817.3	0.0

<sup>1</sup> Feet Above Confluence with Twin Oaks Valley Creek

TABLE 13

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

**FLOODWAY DATA**

**STEVENSON CREEK**



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Above Reservoir)								
A	0	1,133	16,651	1.8	249.7	249.7	250.7	1.0
B	1,520	1,015	7,315	4.0	249.9	249.9	250.8	0.9
C	2,070	1,075	5,696	5.2	250.3	250.3	250.3	0.0
D	3,092	491	3,743	7.9	251.4	251.4	251.4	0.0
E	5,507	247	2,435	12.1	258.3	258.3	258.5	0.2
F	8,097	203	1,406	21.0	268.8	268.8	268.8	0.0
G	8,420	183	1,633	18.1	273.1	273.1	273.1	0.0
H	10,110	243	2,587	11.4	282.7	282.7	282.8	0.1
I	10,970	246	2,074	14.2	289.3	289.3	289.4	0.1
J	12,057	413	2,512	11.7	298.0	298.0	298.0	0.0
K	13,657	720	5,060	5.8	305.9	305.9	306.1	0.2
L	15,520	522	6,012	4.9	318.8	318.8	318.8	0.0
M	15,725	530	5,558	5.3	319.2	319.2	319.2	0.0
N	17,366	664	5,288	5.6	322.3	322.3	322.4	0.1
O	17,869	720	6,617	4.5	323.5	323.5	323.8	0.3
P	19,309	1,025	5,378	5.5	329.2	329.2	329.3	0.1
Q	21,632	960	4,695	6.3	336.7	336.7	336.8	0.1
R	24,273	749	4,140	7.1	345.6	345.6	345.9	0.3
S	25,510	577	3,678	8.0	350.2	350.2	350.2	0.0
T	26,529	1,150	3,209	9.2	353.6	353.6	353.7	0.1
U	27,732	750	3,967	7.4	363.0	363.0	363.2	0.2
V	27,749	750	4,040	7.3	363.1	363.1	363.3	0.2
W	30,221	830	2,937	10.0	375.0	375.0	375.1	0.1
X	30,784	670	1,904	15.5	378.2	378.2	378.2	0.0
Y	30,951	640	4,635	6.4	382.4	382.4	382.6	0.2

<sup>1</sup> Feet Above Sweetwater Reservoir

TABLE 13

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

FLOODWAY DATA

**SWEETWATER RIVER (ABOVE RESERVOIR)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Above Reservoir) (cont'd)								
Z	33,190	935	2,498	11.8	387.3	387.3	387.3	0.0
AA	33,835	1,036	7,741	3.8	390.2	390.2	390.6	0.4
AB	34,555	833	4,393	6.7	390.5	390.5	390.8	0.3
AC	35,657	440	3,622	8.1	400.0	400.0	400.3	0.3
AD	35,751	455	4,278	6.9	400.9	400.9	401.2	0.3
AE	37,315	561	3,927	7.5	402.6	402.6	403.0	0.4
AF	37,802	572	2,921	10.1	404.2	404.2	404.3	0.1
AG	40,171	405	3,318	8.9	417.2	417.2	417.4	0.2
AH	41,078	668	6,117	4.8	420.8	420.8	421.6	0.8
AI	42,395	344	4,408	6.7	425.1	425.1	425.1	0.0
AJ	43,725	480	3,777	8.8	430.2	430.2	430.4	0.2
AK	44,975	320	4,151	7.8	440.8	440.8	440.9	0.1
AL	45,525	358	3,676	8.9	441.2	441.2	441.3	0.1
AM	46,995	170	3,008	9.8	444.3	444.3	444.3	0.0
AN	47,845	145	1,797	17.1	447.0	447.0	447.0	0.0
AO	48,195	187	2,541	11.6	451.8	451.8	451.8	0.0
AP	48,520	325	3,089	10.3	455.0	454.8	454.8	0.0
AQ	49,120	491	2,562	11.5	455.5	455.5	455.5	0.0
AR	49,920	679	3,414	10.8	459.1	459.1	459.1	0.0
AS	51,340	440	3,798	7.8	463.8	463.8	463.8	0.0
AT	54,209	395	6,427	4.7	479.1	479.1	479.3	0.2
AU	55,346	851	3,171	9.3	483.5	483.5	483.5	0.0
AV	55,481	778	3,306	8.9	484.3	484.3	484.3	0.0
AW	55,645	570	4,232	7.0	487.2	487.2	487.2	0.0

<sup>1</sup> Feet Above Sweetwater Reservoir

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Above Reservoir) (cont'd)								
AX	56,845	642	2,635	11.2	491.0	491.0	491.1	0.1
AY	57,545	1,354	4,903	6.0	496.1	496.1	496.2	0.1
AZ	58,515	989	3,822	7.7	500.9	500.9	500.9	0.0
BA	59,445	636	2,740	10.2	506.5	506.5	506.6	0.1
BB	60,775	883	4,576	6.1	515.6	515.6	515.7	0.1
BC	61,325	669	3,196	8.8	519.6	519.6	519.6	0.0
BD	62,085	494	3,240	8.6	523.0	523.0	523.0	0.0
BE	63,235	619	3,295	7.9	526.3	526.3	527.0	0.7
BF	64,755	265	1,837	14.1	538.1	538.1	538.1	0.0
BG	65,655	477	3,344	7.8	543.7	543.7	544.7	1.0
BH	66,705	425	2,266	11.5	549.5	549.5	549.5	0.0
BI	67,625	346	2,273	11.4	555.3	555.3	555.4	0.1

<sup>1</sup>Feet Above Sweetwater Reservoir

TABLE 13

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

FLOODWAY DATA

**SWEETWATER RIVER (ABOVE RESERVOIR)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (At National City) A-C <sup>2</sup>								
D	3.49	380	4,508	7.8	37.0	37.0	37.4	0.4
E	3.58	380	4,145	8.4	37.2	37.2	37.7	0.5
F	3.72	390	4,428	7.9	38.7	38.7	38.8	0.1
G	3.85	876	8,117	4.3	39.4	39.4	40.0	0.6
H	4.11	632	5,929	5.9	40.5	40.5	40.8	0.3
I	4.22	885	6,281	6.4	43.1	43.1	43.1	0.0
J	5.60	753	4,083	12.3	63.3	63.3	63.3	0.0
K	5.73	570	3,823	9.2	66.8	66.8	66.8	0.0
L	5.78	725	4,822	9.8	68.2	68.2	68.2	0.0
M	5.84	533	3,645	10.3	68.5	68.5	68.6	0.1
N	6.01	473	3,509	10.2	71.6	71.6	71.7	0.1
O	6.14	1,002	5,209	12.2	74.0	74.0	74.1	0.1
P	6.35	1,101	4,433	10.7	75.0	75.0	75.7	0.7
Q	6.51	969	4,071	11.1	78.2	78.2	78.2	0.0
R	6.69	1,084	4,041	13.9	80.9	80.9	81.1	0.2
S	6.95	854	3,503	15.5	86.0	86.0	86.0	0.0

<sup>1</sup> Miles Above Mouth

<sup>2</sup> Data Not Available

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Descanso Area)								
A	0	204	1,470	13.8	3,308.4	3,308.4	3,308.4	0.0
B	280	153	1,242	16.3	3,316.7	3,316.7	3,316.7	0.0
C	535	139	1,196	17.0	3,325.0	3,325.0	3,325.0	0.0
D	995	84	1,021	19.9	3,345.2	3,345.2	3,345.2	0.0
E	1,555	186	1,793	11.3	3,356.9	3,356.9	3,357.8	0.9
F	1,790	151	1,731	11.7	3,359.4	3,359.4	3,359.7	0.3
G	2,420	266	2,588	7.8	3,363.6	3,363.6	3,364.4	0.8
H	2,720	273	1,802	11.3	3,364.3	3,364.3	3,365.3	1.0
I	3,180	217	2,235	9.1	3,369.5	3,369.5	3,369.5	0.0
J	3,610	233	2,245	9.0	3,371.3	3,371.3	3,371.4	0.1
K	3,920	149	1,237	16.4	3,379.8	3,379.8	3,379.8	0.0
L	3,980	155	1,451	14.0	3,382.0	3,382.0	3,382.0	0.0
M	4,055	189	2,204	9.2	3,383.3	3,383.3	3,383.3	0.0
N	4,365	288	3,498	5.8	3,384.3	3,384.3	3,384.3	0.0
O	4,765	376	4,084	5.0	3,384.7	3,384.7	3,384.8	0.1
P	5,215	312	3,224	6.3	3,384.8	3,384.8	3,384.9	0.1
Q	5,945	391	2,833	7.2	3,385.5	3,385.5	3,385.8	0.3
R	6,095	353	2,388	8.5	3,385.7	3,385.7	3,385.9	0.2
S	6,635	454	3,227	6.3	3,388.9	3,388.9	3,389.7	0.8
T	7,075	435	2,892	7.0	3,391.1	3,391.1	3,391.8	0.7
U	7,455	379	2,793	7.3	3,393.4	3,393.4	3,394.1	0.7
V	7,675	473	3,452	5.9	3,394.5	3,394.5	3,395.3	0.8
W	8,055	559	4,293	3.5	3,395.7	3,395.7	3,396.5	0.8
X	8,195	518	3,333	4.2	3,395.8	3,395.8	3,396.6	0.8
Y	8,445	397	1,501	9.3	3,396.6	3,396.6	3,396.7	0.1

<sup>1</sup> Feet Above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**SWEETWATER RIVER (DESCANSO AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Descanso Area) (cont'd)								
Z	9,045	75	928	16.3	3,405.4	3,405.4	3,405.4	0.0
AA	9,095	75	929	16.3	3,405.4	3,405.4	3,405.4	0.0
AB	9,615	292	2,706	5.6	3,409.1	3,409.1	3,410.1	1.0
AC	9,935	320	3,014	5.0	3,409.5	3,409.5	3,410.5	1.0
AD	10,385	361	2,737	5.5	3,410.0	3,410.0	3,411.0	1.0
AE	10,875	310	1,405	10.8	3,410.9	3,410.9	3,411.2	0.3
AF	11,667	225	1,346	11.2	3,417.2	3,417.2	3,418.0	0.8
AG	12,294	314	1,985	7.6	3,422.0	3,422.0	3,422.0	0.0
AH	12,360	314	1,306	11.6	3,423.6	3,423.6	3,423.6	0.0
AI	12,866	233	1,214	12.4	3,429.7	3,429.7	3,429.7	0.0
AJ	13,086	142	1,011	14.9	3,431.8	3,431.8	3,432.0	0.2
AK	13,416	375	2,319	6.5	3,435.5	3,435.5	3,436.5	1.0
AL	13,566	306	2,041	7.4	3,436.4	3,436.4	3,437.2	0.8
AM	14,336	569	3,161	4.8	3,438.6	3,438.6	3,439.2	0.6
AN	15,076	230	1,342	11.2	3,445.2	3,445.2	3,445.7	0.5
AO	15,746	172	1,061	14.2	3,450.2	3,450.2	3,450.5	0.3
AP	16,346	439	2,351	6.4	3,454.9	3,454.9	3,455.9	1.0
AQ	16,896	330	1,454	10.4	3,460.2	3,460.2	3,460.3	0.1
AR	17,196	146	1,164	13.0	3,461.6	3,461.6	3,462.0	0.4
AS	17,726	147	1,172	12.9	3,464.7	3,464.7	3,465.2	0.5
AT	18,156	126	1,117	13.5	3,467.4	3,467.4	3,467.7	0.3
AU	18,586	141	1,405	10.7	3,470.5	3,470.5	3,470.8	0.3
AV	19,176	171	1,097	13.8	3,476.7	3,476.7	3,477.0	0.3
AW	19,496	100	1,079	14.0	3,479.3	3,479.3	3,479.3	0.0

<sup>1</sup> Feet Above Cross Section A

TABLE 13

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

**FLOODWAY DATA**

**SWEETWATER RIVER (DESCANSO AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Sweetwater River (Descanso Area) (cont'd)								
AX	20,116	84	834	18.1	3,492.0	3,492.0	3,492.0	0.0
AY	20,676	90	855	17.7	3,511.5	3,511.5	3,511.5	0.0
AZ	21,136	86	935	16.1	3,521.3	3,521.3	3,521.3	0.0
BA	21,386	82	826	18.3	3,534.2	3,534.2	3,534.2	0.0
BB	21,896	59	741	20.4	3,557.6	3,557.6	3,557.6	0.0
BC	22,131	70	788	19.2	3,576.6	3,576.6	3,576.6	0.0
BD	22,741	61	756	20.0	3,598.5	3,598.5	3,598.7	0.2
BE	23,451	88	849	17.8	3,633.9	3,633.9	3,633.9	0.0
BF	24,071	87	927	16.3	3,646.7	3,646.7	3,646.7	0.0
BG	24,651	114	1,362	11.1	3,654.3	3,654.3	3,655.3	1.0

<sup>1</sup> Feet Above Cross Section A

TABLE 13

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

FLOODWAY DATA

**SWEETWATER RIVER (DESCANSO AREA)**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Telegraph Canyon Creek								
A	8,667	84	356	6.7	80.0	80.0	80.2	0.2
B	9,440	51	238	10.1	84.9	84.9	85.5	0.6
C	10,225	54	382	7.3	93.9	93.9	93.9	0.0
D	10,635	75	386	7.3	97.1	97.1	97.1	0.0
E	10,865	71	372	7.5	99.7	99.7	99.7	0.0
F	11,432	23	178	15.8	99.7	99.7	99.7	0.0
G	12,131	34	254	11.0	107.0	107.0	107.0	0.0
H	12,662	21	172	16.3	109.6	109.6	109.6	0.0
I	13,305	153	741	3.8	125.0	125.0	125.0	0.0
J	13,663	228	821	3.4	129.8	129.8	129.8	0.0
K	14,251	128	676	4.1	130.2	130.2	130.2	0.0
L	14,590	40	181	12.2	130.2	130.2	130.4	0.2
M	15,037	88	257	8.6	134.8	134.8	135.8	1.0
N	15,667	40	181	12.1	146.4	146.4	146.4	0.0
O	16,440	33	172	12.8	151.6	151.6	152.6	1.0
P	33,465	131	305	3.2	345.8	345.8	346.8	1.0
Q	35,061	199	254	6.3	363.9	363.9	363.9	0.0
R	36,520	118	244	8.4	379.5	379.5	379.7	0.2
S	38,920	78	291	3.5	399.7	399.7	400.1	0.4
T	41,339	76	276	4.3	429.8	429.8	429.8	0.0
U	42,355	206	259	5.6	440.2	440.2	440.4	0.2
V	43,178	30	135	8.7	452.9	452.9	453.5	0.6
W	43,382	73	459	2.7	458.9	458.9	458.9	0.0
X	45,200	110	198	4.9	477.8	477.8	477.8	0.0
Y	46,220	45	45	15.9	490.1	490.1	490.1	0.0

<sup>1</sup> Feet Above Mouth



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NGVD <sup>2</sup> )			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
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	54	382	7.3	91.7	91.7	91.7	0.0
D	10,635	75	386	7.3	94.9	94.9	94.9	0.0
E	10,865	71	372	7.5	97.5	97.5	97.5	0.0
F	11,432	23	178	15.8	97.5	97.5	97.5	0.0
G	12,131	34	254	11.0	104.8	104.8	104.8	0.0
H	12,662	21	172	16.3	107.4	107.4	107.4	0.0

<sup>1</sup> Feet Above Mouth

<sup>2</sup> This additional table was added for Telegraph Canyon Creek to account for the portion of the floodway printed on a DFIRM with a different datum.

TABLE 13

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

FLOODWAY DATA

TELEGRAPH CANYON CREEK

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tijuana River								
A	2,710 <sup>1</sup>	4,450	16,365	4.6	9.1	9.1	9.8	0.7
B	5,440 <sup>1</sup>	5,100	19,082	3.9	14.2	14.2	14.6	0.4
-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>
D	13,805 <sup>1</sup>	5,024	17,578	4.3	27.2	27.2	27.5	0.3
E	14,995 <sup>1</sup>	5,100	23,451	3.2	30.5	30.5	31.2	0.7
F	18,435 <sup>1</sup>	4,600	17,592	4.3	34.1	34.1	34.3	0.2
G	19,815 <sup>1</sup>	3,940	17,567	4.3	37.6	37.6	37.8	0.2
H	21,435 <sup>1</sup>	3,499	13,032	5.8	42.1	42.1	42.2	0.1
I	23,845 <sup>1</sup>	2,327	13,751	5.5	48.1	48.1	48.2	0.1

<sup>1</sup> Feet Above Mouth

<sup>2</sup> Data Not Available

TABLE 13

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

**FLOODWAY DATA**

**TIJUANA RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary to Forester Creek								
G	4,090	68	70	5.8	517.6	517.6	517.7	0.1
H	4,570	105	59	6.0	522.9	522.9	523.7	0.8
I	5,050	221	138	2.5	527.5	527.5	527.7	0.2
J	5,400	94	225	7.1	532.7	532.7	533.6	0.9
K	6,150	260	231	5.0	539.0	539.0	539.8	0.8
L	6,650	274	236	4.2	543.6	543.6	544.0	0.4
M	7,170	150	141	6.5	548.9	548.9	549.2	0.3
N	7,600	141	191	4.8	554.2	554.2	554.4	0.2
O	8,100	36	96	9.5	562.7	562.7	563.2	0.5

<sup>1</sup>Feet Above East Main Street

TABLE 13

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

**FLOODWAY DATA**

**TRIBUTARY TO FORESTER CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary of South Tributary to Santa Maria Creek								
A	890	295	1,676	1.0	1,381.6	1,381.6	1,381.9	0.3
B	1,505	259	1,104	1.5	1,381.7	1,381.7	1,382.7	1.0
C	2,220	95	292	5.5	1,383.8	1,383.8	1,384.8	1.0

<sup>1</sup> Feet Above Confluence with South Tributary to Santa Maria Creek

TABLE 13

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

**FLOODWAY DATA**

**TRIBUTARY OF SOUTH TRIBUTARY TO SANTA MARIA CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary to Sweetwater River								
A	800	109	398	5.2	130.1	130.1	131.1	1.0
B	1,182	86	239	8.7	133.4	133.4	133.6	0.2
C	1,372	77	315	6.6	135.0	135.0	135.3	0.3
D	1,844	108	689	3.0	139.2	139.2	139.3	0.1
E	2,257	102	808	2.6	149.5	149.5	149.5	0.0
F	2,716	93	333	6.2	151.7	151.7	152.1	0.4
G	3,176	90	247	8.4	156.6	156.6	156.6	0.0
H	3,526	31	160	13.0	167.8	167.8	167.8	0.0
I	4,161	27	153	13.6	178.8	178.8	178.8	0.0
J	4,603	42	173	12.0	186.8	186.8	186.8	0.0
K	4,875	24	146	14.2	198.0	194.7	194.7	0.0
L	5,141	56	491	4.2	202.6	202.6	202.6	0.0
M	5,362	59	282	7.3	202.8	202.8	203.0	0.2
N	5,557	56	210	9.8	207.3	207.3	207.5	0.2
O	5,872	129	368	5.6	211.6	211.6	211.6	0.0
P	6,269	82	415	5.0	223.1	223.1	223.4	0.3
Q	6,836	67	206	10.0	233.7	233.7	233.7	0.0
R	6,996	29	338	6.1	246.8	246.8	247.0	0.2
S	7,306	80	387	5.4	247.3	247.3	248.3	1.0
T	7,656	129	268	7.7	253.5	253.5	253.5	0.0
U	8,016	87	234	8.8	261.4	261.4	261.4	0.0
V	8,306	83	224	9.2	269.8	269.8	269.8	0.0

<sup>1</sup> Feet Above Loma Del Sol Drive

TABLE 13

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

**FLOODWAY DATA**

**TRIBUTARY TO SWEETWATER RIVER**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Twin Oaks Valley Creek								
A	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>	-- <sup>2</sup>
B	1,880	164	1,364	5.2	579.9	579.9	580.2	0.3
C	2,748	381	1,924	3.7	582.5	582.5	582.6	0.1
D	3,588	300	1,820	3.9	585.9	585.9	586.1	0.2
E	5,227	255	795	8.9	605.1	605.1	605.4	0.3
F	6,357	170	1,172	6.1	608.4	608.4	609.0	0.6
G	7,917	130	1,128	5.9	624.4	624.4	624.9	0.5
H	8,916	155	1,220	5.5	631.1	631.1	631.8	0.7
I	10,929	110	931	7.0	649.5	649.5	650.0	0.5
J	12,158	110	870	7.5	665.4	665.4	665.8	0.4
K	13,658	239	716	9.1	676.7	676.7	677.0	0.3
L	15,203	414	1,151	5.6	690.6	690.6	690.7	0.1
M	16,039	615	1,391	4.7	695.8	695.8	695.9	0.1
N	16,582	701	2,333	2.2	701.6	701.6	701.6	0.0
O	16,932	713	823	6.3	702.9	702.9	703.3	0.4
P	17,040	705	1,291	4.0	704.8	704.8	705.1	0.3
Q	17,089	690	991	5.2	705.3	705.3	705.3	0.0
R	17,359	628	1,292	4.0	707.6	707.6	708.0	0.4
S	17,844	672	1,243	4.2	711.0	711.0	711.6	0.6
T	18,084	800	1,308	3.2	713.3	713.3	713.5	0.2
U	18,264	830	2,287	1.8	717.4	717.4	717.4	0.0
V	18,734	1,040	1,225	3.4	720.5	720.5	720.5	0.0
W	18,994	1,185	1,538	2.7	721.7	721.7	722.6	0.9
X	19,109	1,275	2,342	1.8	724.5	724.5	724.6	0.1
Y	19,199	385	482	5.5	724.6	724.6	725.2	0.6
Z	19,594	253	396	4.4	728.7	728.7	729.7	1.0

<sup>1</sup> Feet Above Confluence with San Marcos Creek

<sup>2</sup> No Data Available.

TABLE 13

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

**FLOODWAY DATA**

**TWIN OAKS VALLEY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Twin Oaks Valley Creek (cont'd)								
AA	20,034	247	308	5.7	737.2	737.2	737.8	0.6
AB	20,414	145	314	5.6	741.8	741.8	742.5	0.7
AC	20,554	145	263	6.6	743.9	743.9	744.4	0.5
AD	20,749	181	293	6.0	747.1	747.1	747.3	0.2
AE	21,079	325	368	4.8	751.7	751.7	751.8	0.1
AF	21,500	324	416	4.2	757.1	757.1	757.9	0.8
AG	21,960	339	426	4.1	761.5	761.5	762.4	0.9
AH	22,450	115	243	7.2	770.6	770.6	771.1	0.5
AI	22,605	164	304	5.7	772.8	772.8	773.4	0.6
AJ	22,676	178	300	5.8	773.7	773.7	774.1	0.4
AK	23,215	74	187	9.4	780.8	780.8	780.9	0.1
AL	23,660	98	224	7.8	788.6	788.6	789.0	0.4
AM	24,000	57	187	9.3	793.2	793.2	793.5	0.3
AN	24,155	86	284	6.2	794.9	794.9	795.7	0.8
AO	24,204	89	392	4.5	796.8	796.8	797.8	1.0
AP	24,684	61	177	9.9	806.0	806.0	806.0	0.0
AQ	25,094	65	256	6.8	811.1	811.1	811.1	0.0

<sup>1</sup> Feet Above Confluence with San Marcos Creek

TABLE 13

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

FLOODWAY DATA

**TWIN OAKS VALLEY CREEK**

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Unnamed Tributary to San Dieguito River								
A	3,361	185	583	4.9	492.2	492.2	492.2	0.0
B	3,596	174	671	1.5	494.2	494.2	494.2	0.0
C	3,894	174	273	4.9	494.9	494.9	494.9	0.0
D	4,594	160	208	7.4	501.3	501.3	501.3	0.0

<sup>1</sup> Feet above confluence with San Dieguito River

TABLE 13

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

**FLOODWAY DATA**

**UNNAMED TRIBUTARY TO SAN DIEGUITO RIVER**



FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Wabash Branch								
A	2,060	38	437	3.7	84.5	84.5	84.7	0.2
B	2,430	33	130	10.7	87.4	87.4	88.3	0.9
C	2,760	31	137	10.1	91.4	91.4	92.3	0.9
D	4,700	16	101	13.6	123.4	123.4	124.2	0.8

<sup>1</sup> Feet Above Confluence with Las Chollas Creek

TABLE 13

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

FLOODWAY DATA

WABASH BRANCH

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE FLOOD WATER-SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Witch Creek								
A	7,700	76	486	7.3	2,489.2	2,489.2	2,490.2	1.0
B	8,120	89	332	10.7	2,500.0	2,500.0	2,500.0	0.0
C	8,610	107	589	6.0	2,507.8	2,507.8	2,508.3	0.5
D	9,100	94	604	5.9	2,511.5	2,511.5	2,512.3	0.8
E	9,570	117	546	6.5	2,516.5	2,516.5	2,517.2	0.7
F	9,964	165	398	8.9	2,535.0	2,534.9	2,534.9	0.0
G	10,354	161	559	6.3	2,543.8	2,543.8	2,544.4	0.6
H	10,834	147	700	5.1	2,548.6	2,548.6	2,549.4	0.8
I	11,374	115	343	10.3	2,567.4	2,567.4	2,567.5	0.1
J	11,702	44	258	13.7	2,690.4	2,690.4	2,690.4	0.0
K	11,882	134	1,021	3.5	2,725.0	2,725.0	2,725.0	0.0
L	12,162	121	586	6.0	2,725.4	2,725.4	2,725.7	0.3
M	12,827	97	625	5.7	2,726.4	2,726.4	2,727.2	0.8
N	13,227	76	331	10.7	2,730.4	2,730.4	2,730.6	0.2
O	13,557	98	625	5.7	2,736.8	2,736.8	2,736.9	0.1
P	13,837	165	531	6.7	2,741.2	2,741.2	2,741.3	0.1
Q	13,932	301	1,357	2.6	2,752.2	2,752.2	2,752.5	0.3
R	13,967	278	1,573	2.3	2,755.9	2,755.9	2,755.9	0.0
S	14,953	210	857	4.1	2,756.7	2,756.7	2,757.7	1.0
T	15,273	125	525	6.7	2,759.7	2,759.7	2,760.0	0.3
U	15,719	105	427	8.3	2,762.4	2,762.4	2,763.2	0.8
V	16,219	63	354	10.0	2,764.9	2,764.9	2,765.9	1.0
W	16,582	74	486	7.3	2,770.2	2,770.2	2,770.2	0.0
X	17,149	128	694	5.1	2,776.3	2,776.3	2,776.7	0.4
Y	17,610	227	755	4.7	2,779.0	2,779.0	2,779.5	0.5
Z	18,085	122	529	6.7	2,784.2	2,784.2	2,784.3	0.1

<sup>1</sup> Feet Above Confluence with Santa Ysabel Creek