

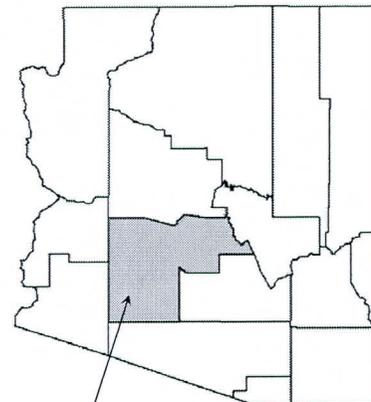
# FLOOD INSURANCE STUDY



VOLUME 2 OF 23

## MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
AVONDALE, CITY OF	040038
BUCKEYE, TOWN OF	040039
CAREFREE, TOWN OF	040126
CAVE CREEK, TOWN OF	040129
CHANDLER, CITY OF	040040
EL MIRAGE, CITY OF	040041
FOUNTAIN HILLS, TOWN OF	040135
GILA BEND, TOWN OF	040043
GILBERT, TOWN OF	040044
GLENDALE, CITY OF	040045
GOODYEAR, CITY OF	040046
GUADALUPE, TOWN OF	040111
LITCHFIELD PARK, CITY OF	040128
MARICOPA COUNTY (UNINCORPORATED AREAS)	040037
MESA, CITY OF	040048
PARADISE VALLEY, TOWN OF	040049
PEORIA, CITY OF	040050
PHOENIX, CITY OF	040051
QUEEN CREEK, TOWN OF	040132
SCOTTSDALE, CITY OF	045012
SURPRISE, CITY OF	040053
TEMPE, CITY OF	040054
TOLLESON, CITY OF	040055
WICKENBURG, TOWN OF	040056
YOUNGTOWN, TOWN OF	040057



Maricopa County

REVISED: OCTOBER 16, 2013



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER  
04013CV002B

1302.077

**NOTICE TO  
FLOOD INSURANCE STUDY USERS**

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) report may not contain all data available within the Community Map Repository. Please contact the Community Map Repository for any additional data.

The Federal Emergency Management Agency (FEMA) may revise and republish part or all of this FIS report at any time. In addition, FEMA may revise part of this FIS report by Letter of Map Revision process, which does not involve republication or redistribution of the FIS report. Therefore, users should consult community officials and check the Community Map Repository to obtain the most current FIS report components.

Users should refer to Section 10.0, Revisions Description, for further information. Section 10.0 is intended to present the most up-to-date information for specific portions of this FIS report. Therefore, users of this report should be aware that the information presented in Section 10.0 supersedes information in Sections 1.0 through 9.0 of the FIS report.

Initial Countywide FIS Effective Date: April 15, 1988

Revised Countywide Dates: September 29, 1989  
September 4, 1991  
December 3, 1993  
September 30, 1995  
July 19, 2001  
September 30, 2005  
October 16, 2013

## TABLE OF CONTENTS

### VOLUME 1

	<u>Page</u>
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
1.1 Purpose of Study .....	1
1.2 Authority and Acknowledgments .....	1
1.3 Coordination .....	3
<b>2.0 AREA STUDIED .....</b>	<b>3</b>
2.1 Scope of Study .....	3
2.2 Community Description.....	20
2.3 Principal Flood Problems.....	22
2.4 Flood Protection Measures .....	27
<b>3.0 ENGINEERING METHODS .....</b>	<b>28</b>
3.1 Hydrologic Analyses.....	28

### FIGURES

Figures 1-5 - Historic Flooding.....	24-26
--------------------------------------	-------

### TABLES

Table 1 - Detailed Study Sources.....	4
Table 2 - Approximate Study Streams.....	10
Table 3 - Summary of Discharges.....	31
Table 4 - Summary of Stillwater Elevations.....	125

**TABLE OF CONTENTS (Continued)**

**VOLUME 2**

	<b><u>Page</u></b>
3.2 Hydraulic Analyses.....	126
3.3 Vertical Datum.....	136
<b>4.0 <u>FLOODPLAIN MANAGEMENT APPLICATIONS</u>.....</b>	<b>137</b>
4.1 Flood Boundaries.....	138
4.2 Floodways.....	138

**FIGURES**

Figure 6 - Floodway Schematic .....	140
-------------------------------------	-----

**TABLES**

Table 5 - Range of Hydraulic Roughness Coefficients (Manning's "n").....	128
Table 6 - Floodway Data (16 East McMicken-Centennial Wash).....	141

**VOLUME 3**

**TABLES - continued**

Table 6 - Floodway Data (Cereus Wash-Moon Valley Wash) .....	217
--	-----

**VOLUME 4**

**TABLES - continued**

Table 6 - Floodway Data (Morgan City Wash-Tributary X5) .....	338
---	-----

**VOLUME 5**

**TABLES - continued**

Table 6 - Floodway Data (Trilby Wash-Yucca Flat Wash) .....	461
---	-----

**TABLE OF CONTENTS (Continued)**

**VOLUME 6**

	<b><u>Page</u></b>
<b>5.0</b> <b><u>INSURANCE APPLICATIONS</u></b> .....	570
<b>6.0</b> <b><u>FLOOD INSURANCE RATE MAP</u></b> .....	571
<b>7.0</b> <b><u>OTHER STUDIES</u></b> .....	571
<b>8.0</b> <b><u>LOCATION OF DATA</u></b> .....	576
<b>9.0</b> <b><u>BIBLIOGRAPHY AND REFERENCES</u></b> .....	576
<b>10.0</b> <b><u>REVISION DESCRIPTIONS</u></b> .....	587
10.1    First Revision.....	587
10.2    Second Revision .....	593
10.3    Third Revision .....	607
10.4    Fourth Revision.....	623
10.5    Fifth Revision .....	632
10.6    Sixth Revision.....	635
10.7    Seventh Revision .....	672

**TABLES**

Table 7 - Community Map History .....	573
Table 8 - Letters of Map Change (Revision 6) .....	660
Table 9 – Listed of Certified and Accredited Levees .....	674
Table 10 – Letters of Map Change (Revision 7).....	678

**TABLE OF CONTENTS (Continued)**

**VOLUME 7**

**EXHIBITS**

Exhibit 1 - Flood Profiles

16 East (McMicken Wash)	Panels 01P-02P
191st Avenue Wash	Panels 03P-06P
ADOT U.S. 60 Channel	Panel 07P
Agua Fria River	Panels 08P-35P
Aguila Farm Channel	Panels 36P-40P
Amir Wash	Panels 41P-42P
Andora Hills Wash	Panels 43P-49P
Andora Hills Wash Split 1	Panel 50P
Andora Hills Wash Split 2	Panel 51P
Apache Wash	Panels 52P-61P
Apache Wash Split Flow Area	Panels 62P-63P
Apache Wash Tributary 1	Panels 64P-65P
Apache Wash Tributary 2	Panels 66P-68P
Apache Wash Tributary 3	Panel 69P
Apache Wash Tributary 4	Panels 70P-71P
Apache Wash Tributary 5	Panel 72P
Apache Wash Tributary 6	Panel 73P
Apache Wash Tributary 7	Panels 74P-75P
Apache Wash West Fork	Panels 76P-78P
Apache Wash West Fork Tributary 1	Panels 79P-80P
Apache Wash West Fork Tributary 2	Panel 81P
Arrow Wash	Panels 82P-84P
Ashbrook Wash	Panels 85P-88P
Atchison Topeka and Santa Fe Railroad Channel	Panels 89P-90P
Balboa Wash	Panels 91P-92P
Beardsley Canal Wash	Panels 93P-95P
Beardsley Wash North	Panels 96P-99P

**TABLE OF CONTENTS (Continued)**

**VOLUME 8**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Beardsley Wash South	Panels 100P-106P
Beardsley Wash South Breakout	Panels 107P-108P
Bedrock Wash	Panels 109P-117P
Bedrock Wash North Fork	Panels 118P-121P
Bender Wash	Panels 122P-129P
Bender Wash North Tributary	Panels 130P-133P
Black Wash	Panel 134P
Blue Tank Wash	Panel 135P
Bonita Dike Channel	Panel 136P
Buchanan Wash	Panels 137P-138P
Buckeye Feeder Canal	Panels 139P-140P
Bullard Wash	Panels 141P-148P
Bullard Wash West Tributary	Panel 149P
Bulldozer Wash	Panels 150P-161P
Calamity Wash	Panels 162P-163P
Caliente Wash	Panels 164P-165P
Camelback Wash	Panels 166P-167P
Camp Creek Tributary A	Panels 168P-173P
Camp Creek Tributary A1	Panels 174P-176P
Camp Creek Tributary A2	Panels 177P-179P
Camp Creek Tributary B	Panels 180P-186P
Camp Creek Tributary B1	Panels 187P-189P
Camp Creek Tributary B2	Panels 190P-194P
Camp Creek Tributary C	Panels 195P-200P

**TABLE OF CONTENTS (Continued)**

**VOLUME 9**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Camp Creek Tributary C1	Panels 201P-203P
Camp Creek Tributary C2	Panels 204P-206P
Camp Creek Tributary C3	Panels 207P-208P
Camp Creek Tributary D	Panels 209P-210P
Casandro Wash	Panels 211P-216P
Casandro Wash South Branch	Panels 217P-218P
Caterpillar Tank Wash	Panels 219P-223P
Cave Creek	Panels 224P-273P
Cave Creek Overflow Channel	Panel 274P
Cave Creek Tributary	Panel 275P
Cave Creek Tributary 1	Panels 276P-280P
Cave Creek Tributary 1A	Panel 281P
Cave Creek Tributary 1B	Panel 282P
Cave Creek Tributary 1C	Panel 283P
Cave Creek Tributary 1D	Panel 284P
Cave Creek Tributary Tributary	Panel 285P
Cave Creek Unnamed Central Tributary	Panels 286P-288P
Cave Creek Wash	Panels 289P-294P
Cemetery Wash	Panels 295P-300P

**TABLE OF CONTENTS (Continued)**

**VOLUME 10**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Cemetery Wash Tributary R-1	Panels 301P-302P
Cemetery Wash Tributary R-2	Panels 303P-305P
Cemetery Wash Tributary R-3	Panel 306P
Centennial Wash	Panels 307P-325P
Centennial Wash Left Overbank	Panels 326P-333P
Centennial Wash North Branch	Panels 334P-335P
Cereus Wash	Panels 336P-338P
Cholla Wash	Panels 339P-356P
Cholla Wash North Fork	Panels 357P-360P
Chukar Wash	Panel 361P
Circle City Area Wash 1	Panels 362P-366P
Circle City Area Wash 2	Panels 367P-368P
Circle City Area Wash 2 Along Atchison, Topeka & Santa Fe Railway	Panels 369P-370P
Circle City Area Wash 3	Panels 371P-374P
Circle City Area Wash 4	Panels 375P-376P
Circle City Area Wash 4 Along Atchison, Topeka & Santa Fe Railway	Panel 377P
Circle City Area Wash 5	Panel 378P
Circle City Area Wash 6	Panels 379P-380P
Circle City Area Wash 7	Panels 381P-382P
Citrus Valley Wash	Panels 383P-384P
Cline Creek	Panels 385P-393P
Cline Creek Split 3	Panel 394P
Colony Wash	Panels 395P-396P

**TABLE OF CONTENTS (Continued)**

**VOLUME 11**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Cottonwood Creek	Panels 397P-405P
Cottonwood Creek Tributary 1	Panels 406P-407P
Cottonwood Creek Tributary 2	Panels 408P-409P
Cyprus Point Wash	Panels 410P-411P
Daggs Wash	Panels 412P-422P
Daggs Wash East Split Flow	Panel 423P
Daggs Wash West Breakout	Panels 424P-425P
Dale Creek Wash	Panel 426P
Deadman Wash	Panels 427P-431P
Deadman Wash Stream No. 4	Panel 432P
Deadman Wash Stream No. 7	Panel 433P
Deadman Wash Stream No. 12	Panel 434P
Desert Hills Wash	Panels 435P-438P
Desert Hills Wash Tributary	Panel 439P
Desert Hills Wash Tributary 1	Panels 440P-441P
Desert Hills Wash Tributary 2	Panel 442P
Desert Hills Wash Tributary 3	Panel 443P
Desert Hills Wash Tributary 4	Panel 444P
Desert Hills Wash Tributary 5	Panel 445P
Desert Hills Wash Tributary 6	Panels 446P-447P
Desert Lake Wash	Panels 448P-451P
Desert Lake Wash East Fork	Panels 452P-454P
Desert Lake Wash Tributary 2	Panels 455P-456P
Diversion Dike Wash	Panels 457P-458P
Doe Peak Wash	Panels 459P-460P
Doe Peak Wash East Fork	Panels 461P-462P
Doe Peak Wash South Fork	Panels 463P-465P
Dreamy Draw Wash East	Panels 466P-467P
Dreamy Draw Wash West	Panel 468P
East Fork of Cave Creek	Panels 469P-471P
East Garambullo Wash	Panels 472P-473P
Eastern Canal East Embankment Flooding	Panels 474P-478P
Eastern Pima Wash	Panels 479P-480P
Echo Canyon Wash	Panels 481P-485P
Emerald Wash	Panels 486P-487P
Escalante Wash	Panel 488P
Evans Wash	Panels 489P-493P
Fan 6A	Panels 494P-495P

**TABLE OF CONTENTS (Continued)**

**VOLUME 12**

**EXHIBITS – continued**

Exhibit 1 - Flood Profiles - continued

Fan 6A North	Panels 496P-504P
Fan 6A South	Panels 505P-511P
Fan 6C	Panels 512P-514P
Fan 6C North Branch	Panel 515P
Flemming Springs Wash	Panels 516P-519P
Flying E Wash	Panels 520P-524P
Flynn Lane Wash	Panels 525P-526P
Fountain Channel	Panel 527P
Galloway Wash	Panels 528P-534P
Galloway Wash Middle Branch	Panels 535P-538P
Galloway Wash Middle Branch Tributary	Panel 539P
Galloway Wash North Tributary	Panels 540P-546P
Galloway Wash South Branch	Panels 547P-550P
Galloway Wash South Branch Split 1	Panel 551P
Galloway Wash Split 1	Panel 552P
Galloway Wash Split 2	Panel 553P
Galloway Wash Tributary 2	Panels 554P-556P
Galloway Wash Tributary 2A	Panel 557P
Galloway Wash Tributary 2B	Panel 558P
Galloway Wash Unnamed Tributary	Panels 559P-560P
Gila Bend Canal	Panel 561P
Gila River	Panels 562P-575P
Gila River (Below Gilliespie Dam)	Panels 576P-589P
Granite Falls Wash	Panel 590P
Granite Reef Wash	Panels 591P-592P
Grapevine Wash	Panels 593P-594P
Grass Wash	Panels 595P-597P
Greystone Wash	Panel 598P

**TABLE OF CONTENTS (Continued)**

**VOLUME 13**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Hacker Wash	Panels 599P-604P
Hacker Wash Diversion	Panel 605P
Happy Valley Wash	Panel 606P
Hartman Wash	Panels 607P-611P
Hartman Wash Unnamed Tributary	Panel 612P
Hassayampa River	Panels 613P-635P
Hassayampa River Tributary 1E	Panels 636P-640P
Hassayampa River Tributary 1E1	Panels 641P-642P
Hassayampa River Tributary 3E	Panels 643P-644P
Hassayampa River Tributary 4E	Panels 645P-647P
Hassayampa River Tributary 4E Tributary	Panel 648P
Hassayampa River Tributary 4E West Fork	Panel 649P
Hesperus Wash	Panels 650P-651P
Holly Wash	Panel 652P
Hospital Wash	Panel 653P
I-8 Wash East	Panel 654P
I-8 Wash West	Panel 655P
Indian Bend Wash	Panels 656P-662P
Indian Bend Wash Low Flow Channel	Panels 663P-664P
Interstate 10 Wash	Panel 665P
Iona Stock Tank Wash	Panels 666P-667P
Iona Wash	Panels 668P-677P
Iona Wash East	Panels 678P-680P
Iona Wash East Split 1	Panels 681P-683P
Iona Wash East Split 2	Panels 684P-685P
Iona Wash North West Split	Panels 686P-688P
Iona Wash West	Panels 689P-691P
Jacklin Wash	Panel 692P
Jackrabbit Trail Wash	Panels 693P-696P

**TABLE OF CONTENTS (Continued)**

**VOLUME 14**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Jackrabbit Wash	Panels 697P-711P
Jackrabbit Wash Unnamed Tributary	Panels 712P-717P
Jenny Lin Wash	Panels 718P-719P
Kingstree Wash	Panel 720P
Laser Drain	Panel 721P
Legend Wash	Panel 722P
Little San Domingo Wash	Panels 723P-726P
Logan Wash	Panel 727P
Lower El Mirage Wash	Panels 728P-730P
Lower El Mirage Wash Tributary	Panels 731P-732P
Luke Wash	Panels 733P-739P
Luke Wash East Main tributary	Panels 740P-743P
Luke Wash East Sub Tributary	Panels 744P-745P
Luke Wash Minor Tributary	Panels 746P-747P
Malta Drain	Panel 748P
Mangrum Wash	Panel 749P
Martinez Wash	Panel 750P
McCormick Ranch Lakes East Branch	Panel 751P
McCormick Ranch Lakes West Branch	Panel 752P
McMicken Dam Outlet Wash	Panels 753P-757P
Mesquite Tank Wash	Panels 758P-761P
Mockingbird Wash	Panels 762P-763P
Monarch Wash	Panels 764P-767P
Moon Valley Wash	Panels 768P-769P
Moon Valley Wash Diversion Channel	Panels 770P-771P
Moon Valley Wash North Branch	Panels 772P-776P
Moon Valley Wash North Split	Panels 777P-778P
Moon Valley Wash South Branch	Panels 779P-781P
Morgan City Wash	Panels 782P-791P
Mountain Wash	Panel 792P
Myrtle Avenue Wash	Panels 793P-794P

**TABLE OF CONTENTS (Continued)**

**VOLUME 15**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

New River	Panels 795P-810P
New River East Split	Panel 811P
New River Middle Split	Panels 812P-813P
New River West Split	Panels 814P-815P
New River West Tributary 5	Panels 816P-818P
New River West Tributary 10	Panels 819P-822P
New River West Tributary 15	Panels 823P-825P
New River West Tributary 20	Panels 826P-831P
New River West Tributary 20 Tributary 5	Panels 832P-833P
New River West Tributary 20 Tributary 10	Panels 834P-835P
New River West Tributary 25	Panels 836P-837P
New River West Tributary 30	Panels 838P-842P
New River West Tributary 35	Panels 843P-846P
New River West Tributary 40	Panels 847P-849P
New River West Tributary 45	Panels 850P-854P
New River West Tributary 50	Panels 855P-857P
New River West Tributary 50 Tributary 5	Panels 858P-859P
New River West Tributary 55	Panels 860P-865P
New River West Tributary 55 Tributary 5	Panels 866P-868P
New River West Tributary 55 Tributary 10	Panels 869P-876P
New River West Tributary 55 Tributary 15	Panels 877P-883P
New River West Tributary 55 Tributary 20	Panels 884P-885P
New River West Tributary 55 Tributary 30	Panels 886P-887P
North Colony Wash	Panel 888P
Ocotillo Wash	Panels 889P-896P
Ocotillo Wash Split 1	Panels 897P-898P
Ocotillo Wash Tributary 1	Panels 899P-901P
Ocotillo Wash Tributary 1A	Panels 902P-903P
Ocotillo Wash Tributary 2	Panels 904P-908P
Ocotillo Wash Tributary 2 Tributary 1	Panel 909P
Ocotillo Wash Tributary 3	Panels 910P-912P

**TABLE OF CONTENTS (Continued)**

**VOLUME 16**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued	
Ocotillo Wash Tributary 4	Panels 913P-915P
Ocotillo Wash Tributary 5	Panels 916P-917P
Ocotillo Wash Tributary 6	Panel 918P
Osborn Road Wash	Panels 919P-923P
Ox Wash	Panels 924P-925P
Oxford Wash	Panel 926P
Padelford Wash	Panels 927P-931P
Padelford Wash Split 1	Panels 932P-933P
Padelford Wash Split 2	Panels 934P-935P
Padelford Wash Split 3	Panels 936P-937P
Padelford Wash Split 4	Panel 938P
Padelford Wash Split 5	Panel 939P
Padelford Wash Tributary A	Panels 940P-941P
Padelford Wash Tributary B	Panel 942P
Padelford Wash Tributary C	Panels 943P-944P
Paradise Wash	Panels 945P-955P
Paradise Wash West Fork	Panels 956P-957P
Perryville Road Wash	Panels 958P-961P
Pioneer Cemetery Wash	Panels 962P-965P
Powder House Wash	Panels 966P-967P
Powder House Wash Tributary 1	Panel 968P
Powder House Wash Tributary 2	Panel 969P
Powder Wash	Panels 970P-971P
Powerline Wash	Panels 972P-979P
Prospect Wash	Panels 980P-981P
Pyrite Wash	Panel 982P
Queen Creek Wash	Panels 983P-985P
Queen Creek Wash (Above Higley Road)	Panel 986P
Quilotosa Wash	Panels 987P-988P
Quilotosa Wash East Split	Panel 989P
Rainbow Wash	Panels 990P-997P
Rainbow Wash Tributary	Panels 998P-999P
Ranieri Tank Wash	Panels 1000P-1001P
Ranieri Tank Wash Tributary 1	Panels 1002P-1003P
Ranieri Tank Wash Tributary 2	Panel 1004P
Ranieri Tank Wash Tributary 3	Panel 1005P

**TABLE OF CONTENTS (Continued)**

**VOLUME 17**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Rattler Wash	Panels 1006P-1007P
Rawhide Wash	Panels 1008P-1015P
Rawhide Wash Tributary 1	Panels 1016P-1017P
Rawhide Wash Tributary 2	Panels 1018P-1020P
Rawhide Wash Tributary 3	Panel 1021P
Rawhide Wash Tributary 4	Panels 1022P-1024P
Rio Verde North Wash I	Panel 1025P
Rio Verde Wash 10	Panels 1026P-1035P
Rio Verde Wash 10 Split 4	Panels 1036P-1038P
Rio Verde Wash 10 Split 7	Panels 1039P-1040P
Rio Verde Wash 11	Panels 1041P-1050P
Rio Verde Wash 11 Split 1	Panels 1051P-1052P
Rio Verde Wash 11 Split 2	Panels 1053P-1054P
Rio Verde Wash 11 Split 8	Panels 1055P-1059P
Rio Verde Wash 12	Panels 1060P-1068P
Rio Verde Wash 12 Split 3	Panels 1069P-1071P
Rio Verde Wash 12 Split 6	Panels 1072P-1074P
Rio Verde Wash A	Panels 1075P-1080P
Rio Verde Wash A Split 1	Panels 1081P-1084P
Rio Verde Wash D	Panels 1085P-1086P
Rio Verde Wash F	Panels 1087P-1093P
Rock Springs Creek	Panels 1094P-1096P
Rodger Creek	Panels 1097P-1102P
Roosevelt Irrigation District Canal Split Flow	Panel 1103P
Rowe Wash	Panels 1104P-1112P

**TABLE OF CONTENTS (Continued)**

**VOLUME 18**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Salt River	Panels 1113P-1128P
Salt River South Split	Panel 1129P
San Domingo Wash	Panels 1130P-1131P
Sand Tank Wash	Panels 1132P-1142P
Sauceda Wash	Panels 1143P-1144P
Scatter Wash	Panels 1145P-1149P
Scatter Wash North Branch	Panels 1150P-1153P
Scott Avenue Wash	Panels 1154P-1163P
Skunk Creek	Panels 1164P-1186P
Skunk Creek Breakout	Panel 1187P
Skunk Creek Tributary 6B	Panels 1188P-1189P
Skunk Creek Tributary 6B North	Panel 1190P
Skunk Creek Tributary 6C	Panels 1191P-1192P
Skunk Creek Tributary 10A	Panel 1193P
Skunk Creek Tributary 10B	Panels 1194P-1196P
Skunk Creek Tributary 12	Panels 1197P-1198P
Skunk Creek Tributary 27.161	Panel 1199P
Skunk Tank Wash	Panels 1200P-1203P
Skyline Wash	Panels 1204P-1205P

**TABLE OF CONTENTS (Continued)**

**VOLUME 19**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Sols Wash	Panels 1206P-1213P
Sols Wash Tributary AH2	Panel 1214P
Sols Wash Tributary AH3	Panels 1215P-1218P
Sols Wash Tributary AH3 Unnamed Tributary	Panel 1219P
Sols Wash Tributary AH4	Panels 1220P-1221P
Sols Wash Tributary AH5	Panels 1222P-1226P
Sonoqui Wash	Panels 1227P-1229P
Sonoran Wash	Panels 1230P-1232P
Stagecoach Pass Wash	Panels 1233P-1245P
Stagecoach Pass Wash Unnamed Tributary	Panels 1246P-1247P
Star Wash	Panels 1248P-1265P
Star Wash Tributary A	Panels 1266P-1267P
Star Wash Tributary B	Panels 1268P-1270P
Star Wash Tributary C	Panels 1271P-1272P
Star Wash Tributary D	Panels 1273P-1276P
Sunburst Wash	Panel 1277P
Sunland Avenue Tributary	Panel 1278P
Sunny Cove Wash	Panel 1279P
Sunny Cove Wash (Upper Reach)	Panels 1280P-1282P
Sunset Wash	Panel 1283P
Sunset Wash Tributary	Panel 1284P
Sunset Wash (Upper Reach)	Panel 1285P
Sweat Canyon Wash	Panels 1286P-1290P
Sycamore Wash	Panel 1291P
Tank Wash	Panels 1292P-1296P
Tank Wash South Branch	Panel 1297P
Tenth Street Wash	Panels 1298P-1299P
Tractor Wash	Panels 1300P-1305P

**TABLE OF CONTENTS (Continued)**

**VOLUME 20**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Tributary C6	Panels 1306P-1309P
Tributary C8	Panels 1310P-1316P
Tributary X1	Panels 1317P-1319P
Tributary X1 Overflow	Panel 1320P
Tributary X1 Splitflow	Panel 1321P
Tributary X2	Panels 1322P-1324P
Tributary X3	Panels 1325P-1327P
Tributary X4A	Panels 1328P-1329P
Tributary X4B	Panels 1330P-1331P
Tributary X5	Panels 1332P-1334P
Trilby Wash	Panels 1335P-1356P
Trilby Wash Middle Channel	Panel 1357P
Trilby Wash West Channel	Panel 1358P
Tulip Wash	Panel 1359P
Turtleback Wash	Panels 1360P-1361P
Tuthill Dike Wash	Panels 1362P-1371P
Twin Buttes Wash	Panels 1372P-1377P
Twin Peaks Wash	Panel 1378P
Union Pacific Railroad	Panels 1379P-1381P
Union Pacific Railroad Ditch	Panels 1382P-1384P
Unnamed Channel	Panel 1385P
Unnamed Wash No. 1	Panels 1386P-1392P
Unnamed Wash No. 2	Panels 1393P-1398P
Upper Boulders Wash	Panels 1399P-1406P
Upper Fan 5	Panels 1407P-1415P

**TABLE OF CONTENTS (Continued)**

**VOLUME 21**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Valley Wash	Panels 1416P-1417P
Wagner Wash	Panels 1418P-1424P
Wagon Wash	Panel 1425P
Wash 1 East	Panels 1426P-1427P
Wash 1 West	Panels 1428P-1432P
Wash 2 East (North of the Central Arizona Project Canal)	Panels 1433P-1434P
Wash 2 East (South of the Central Arizona Project Canal)	Panels 1435P-1436P
Wash 2 East Tributary	Panels 1437P-1438P
Wash 2 West (North of the Central Arizona Project Canal)	Panels 1439P-1441P
Wash 2 West (South of the Central Arizona Project Canal)	Panels 1442P-1444P
Wash 2 West Tributary 1	Panels 1445P-1447P
Wash 2 West Tributary 2	Panels 1448P-1450P
Wash 3 East	Panels 1451P-1455P
Wash 3 West	Panels 1456P-1461P
Wash 4 East	Panels 1462P-1463P
Wash 5 East	Panels 1464P-1467P
Wash 6 East	Panels 1468P-1470P
Wash 6 East South	Panel 1471P
Wash 7 East	Panel 1472P
Wash 7 East East Split	Panels 1473P-1474P
Wash 7 East Tributary	Panels 1475P-1476P
Wash 7 East West Split	Panel 1477P
Wash 8 East	Panels 1478P-1480P
Wash 9	Panels 1481P-1484P
Wash 9 East	Panels 1485P-1492P
Wash 9 East Split	Panel 1493P
Wash 10 East	Panels 1494P-1497P
Wash 10 East Split 1	Panel 1498P
Wash 10 East Split 2	Panels 1499P-1500P
Wash 11 East	Panels 1501P-1510P
Wash 12 East	Panels 1511P-1514P
Wash 12 East Split	Panel 1515P

**TABLE OF CONTENTS (Continued)**

**VOLUME 22**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Wash 13 East	Panels 1516P-1518P
Wash 14 East	Panel 1519P
Wash AG	Panel 1520P
Wash B	Panels 1521P-1529P
Wash B Tributary	Panel 1530P
Wash E2	Panel 1531P
Wash F	Panel 1532P
Wash F2	Panel 1533P
Wash G	Panel 1534P
Wash H	Panels 1535P-1536P
Wash I	Panels 1537P-1538P
Wash K	Panels 1539P-1542P
Wash K1	Panel 1543P
Wash L	Panels 1544P-1545P
Wash O	Panels 1546P-1547P
Wash P	Panel 1548P
Wash Q	Panels 1549P-1551P
Wash S2	Panel 1552P
Wash T2N-R5W-S27N	Panels 1553P-1555P
Wash T4N-R2W-S09N	Panels 1556P-1557P
Wash T4N-R2W-S15N	Panels 1558P-1559P
Wash T4N-R3W-S07W	Panels 1560P-1561P
Wash T4N-R3W-S08E	Panels 1562P-1565P
Wash T4N-R3W-S08W	Panels 1566P-1568P
Wash T4N-R3W-S09W	Panels 1569P-1571P
Wash T4N-R3W-S10N	Panels 1572P-1573P
Wash T4N-R3W-S10W-Reach-1	Panel 1574P
Wash T4N-R3W-S10W-Reach-2	Panel 1575P
Wash T4N-R3W-S17	Panels 1576P-1578P
Wash T4N-R3W-S18E	Panels 1579P-1582P
Wash T4N-R3W-S18W	Panels 1583P-1586P
Wash T5N-R2W-S07	Panels 1587P-1588P
Wash T5N-R2W-S19E	Panels 1589P-1590P
Wash T5N-R2W-S19W	Panels 1591P-1594P
Wash T5N-R3W-S01S	Panel 1595P
Wash T5N-R3W-S19	Panel 1596P
Wash T5N-R3W-S24E	Panels 1597P-1599P
Waterfall Wash	Panels 1600P-1607P

**TABLE OF CONTENTS (Continued)**

**VOLUME 23**

**EXHIBITS - continued**

Exhibit 1 - Flood Profiles - continued

Waterman Wash	Panels 1608P-1620P
West Fork White Peak Wash	Panel 1621P
West Garambullo Wash	Panels 1622P-1623P
West Quilotosa Wash	Panels 1624P-1625P
West Split Flow Through El Mirage	Panels 1626P-1627P
White Granite Wash	Panels 1628P-1633P
White Granite Wash North Fork	Panels 1634P-1636P
White Peak Wash	Panels 1637P-1639P
White Tanks No. 3 Wash	Panels 1640P-1646P
White Tanks Wash	Panels 1647P-1653P
White Tanks Wash Tributary 1	Panels 1654P-1657P
Willow Springs Wash	Panels 1658P-1667P
Willow Springs Wash Tributary 1	Panels 1668P-1675P
Willow Springs Wash Tributary 1A	Panels 1676P-1679P
Willow Springs Wash Tributary 2	Panels 1680P-1683P
Willow Springs Wash Tributary 2A	Panels 1684P-1686P
Willow Springs Wash Tributary 4	Panels 1687P-1691P
Willow Springs Wash Tributary 5	Panels 1692P-1695P
Willow Springs Wash Tributary 5A	Panels 1696P-1698P
Willow Springs Wash Tributary 6	Panels 1699P-1701P
Willow Springs Wash Tributary 6A	Panel 1702P
Willow Springs Wash Tributary 6B	Panel 1703P
Willow Springs Wash Tributary 6C	Panel 1704P
Windmill Wash	Panels 1705P-1706P
Windmill Wash North Branch	Panels 1707P-1708P
Windmill Wash South Branch	Panel 1709P
Wittmann Wash	Panels 1710P-1721P
Wittmann Wash North Split	Panel 1722P
Wittmann Wash South Split	Panels 1723P-1724P
Wittmann Wash Tributary	Panels 1725P-1726P
Yucca Flat Wash	Panels 1727P-1728P

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Flood Insurance Rate Map Index  
Flood Insurance Rate Map

### 3.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Users should be aware that flood elevations shown on the Flood Insurance Rate Map (FIRM) represent rounded whole-foot elevations and may not exactly reflect the elevations shown on the Flood Profiles or in the Floodway Data tables in the Flood Insurance Study (FIS) report. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS in conjunction with the data shown on the FIRM.

For areas of riverine flooding studied by detailed methods, water-surface elevations for floods of the selected recurrence intervals were computed using the U.S. Army Corps of Engineers (USACE) HEC-2 computer program (U.S. Department of the Army, 1973).

The cross section data for the Agua Fria River were taken from several sources of mapping. A 1981 USACE topographic map for the New River (U.S. Department of the Army, 1981) was used for the river section from the confluence with the Gila River to the confluence with the New River from the New River to Northern Avenue, 1982 City of Glendale mapping was used (City of Glendale, 1982). From Northern Avenue to Grand Avenue and from Beardsley Road to Jomax Road, 1983 Maricopa County maps were used (Maricopa County, 1983). The topographic maps for the reach between Grand Avenue and Bell Road (American Engineering Company, 1982) were furnished by American Engineering Company for the reach between Bell and Beardsley Roads, maps were provided by Cella, Barr, Evans and Associates (Cella Barr Evens & Associates, 1982).

Cross sections for the Gila River were digitized from 1983 topographic maps or taken from as-built data for the Bullard Avenue Bridge.

Cross sections for the Salt River between Central Avenue and 115th Avenue were based on digitized data from topographic mapping. From Central Avenue to Country Club Road in the City of Mesa, cross sections were also taken from topographic mapping (Arizona Department of Transportation, 1982; City of Phoenix, 1983).

For study purposes, Skunk Creek was divided into two sections. Lower Skunk Creek lies between Adobe Dam outlet channel and the sections were also taken from topographic mapping (Arizona Department of Transportation, 1982) Bell Road Bridge. Upper Skunk Creek is from the Central Arizona with a contour interval of 2 feet.

Project channel to Adobe Dam. Cross sections for both reaches were generated using 1974 Maricopa County topographic maps at a scale of 1:2,400, with a contour interval of 2 feet. These maps were supplemented by additional mapping from the City of Phoenix and the USACE at scales of 1:1,200 and 1:2,400, respectively, both cross sections for the Hassayampa River (below Carefree Highway) were field surveyed.

Cross-section data for the following were developed from topographic maps (Harris-Toups Associates, 1976): Skunk Creek above Carefree Highway; Cave Creek above Cave

Creek Dam; Andora Hills, Galloway, Rowe, Grapevine, Ocotillo, Willow Springs, Powder House, Mockingbird, and Little San Domingo Washes; Whitman Drainage; Aguila Farm Channel; Grass, Sand Tank, and Bender Washes; Rodeo Wash and its tributary; Airport, and Scott Avenue Washes; Lower El Mirage Wash and its tributary; Atchison, Topeka & Santa Fe Railway Channel at El Mirage; the Atchison, Topeka & Santa Fe Railway at Peoria; and the Southern Pacific Railroad and its spurs.

Cross-section data for East Branch Scatter Wash and Echo Canyon Washes were developed from topographic maps provided by the City of Phoenix (City of Phoenix, 1967).

Cross-section data for Cave Creek below Arizona Canal and for East Fork of Cave Creek were developed from aerial photographs flown in March 1980 (Aerial Mapping of Phoenix, Arizona, 1980). Cross-section data for Cave Creek between Arizona Canal and Cave Creek Dam were developed from aerial photographs flown in March 1978 (Aerial Mapping of Phoenix, Arizona, 1978).

Cross-section data for the Sols Wash backwater analyses were obtained from topographic maps, at a scale of 1:200, with a contour interval of 2 feet, prepared specifically for this project by Cooper Aerial Survey in March 1986 (Cooper Aerial Survey, 1986). Culvert and bridge data were obtained from the topographic maps and were field checked to verify structural geometry.

Cross-section data for Casandro, South Branch Casandro, Flying E, and Hospital Washes were taken from a USACE Flood Plain Information report for Wickenburg (U.S. Department of the Army, 1965) and from topographic maps (U.S. Department of the Army, 1976).

Cross-section data for Martinez Wash were digitized from topographic maps (U.S. Department of the Army, 1968).

Cross sections were located at close intervals above and below bridges in order to compute the significant backwater effects of these structures. All bridges and culverts were investigated to obtain elevation data and structural geometry.

Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 4.2), selected cross section locations are also shown on the Flood Boundary and Floodway Map (Exhibit 2).

Starting water-surface elevations for all riverine flooding sources, except as noted below, were developed using the slope/area method.

The starting water-surface elevations for the New River were developed through the use of 1985 topographic mapping in the area of its confluence with Skunk Creek. A significant feature of the New River floodplain is the channelization in the vicinity of its confluence with Skunk Creek. This channelization has occurred from approximately 1,500 feet downstream of the Thunderbird Road Bridge upstream to the Greenway Road.

In addition, in the left over bank area above Union Hills Drive, a new wastewater treatment plant with improved channel banks is reflected in the hydraulic model.

For the upper reaches of Skunk Creek, the starting water-surface elevations were computed from the reservoir spillway elevation of 1,377 feet. For the lower reach, normal-depth and New River backwater computations were used.

Hydraulic roughness coefficients (Manning's "n") were selected on the basis of field inspection and engineering judgment. Table 5, "Range of Hydraulic Roughness Coefficients (Manning's "n")" gives the range of Manning's "n" values for each flooding source studied by detailed methods.

**Table 5. Range of Hydraulic Roughness Coefficients (Manning's "n")**

<u>Flooding Source</u>	<u>Channel</u>	<u>Overbanks</u>
191st Avenue Wash	0.012 - 0.030	0.040 - 0.070
Agua Fria River	0.022 - 0.059	0.032 - 0.070
Aguila Farm Channel	0.030	0.040 - 0.050
Airport Wash	0.025	0.035
Andora Hills Wash	0.020 - 0.045	0.020 - 0.052
Apache Wash	0.045 - 0.060	0.070
Apache Wash West Fork	0.045 - 0.060	0.070
Atchison, Topeka & Santa Fe Railway Channel	0.032 - 0.037	0.032 - 0.047
Atchison, Topeka & Santa Fe (AT&SF) Railway Channel	0.035 - 0.045	0.030 - 0.080
Atchison, Topeka & Santa Fe Railway Ponding	0.035 - 0.040	0.035 - 0.040
Beardsley Canal Wash	0.024 - 0.035	0.024 - 0.070
Bedrock Wash	0.045 - 0.050	0.035 - 0.070
Bender and Sand Tank Washes	0.025	0.035
Bender Wash	0.025 - 0.080	0.030 - 0.035
Bullard Wash	0.013 - 0.070	0.030 - 0.070
Bulldozer Wash	0.035 - 0.050	0.040 - 0.070
Casandro Wash	0.030 - 0.060	0.040 - 0.060
Casandro Wash South Branch	0.030 - 0.060	0.040 - 0.060
Cave Creek	0.015 - 0.065	0.035 - 0.065

**Table 5. Range of Hydraulic Roughness Coefficients (Manning's "n") (Continued)**

<b><u>Flooding Source</u></b>	<b><u>Channel</u></b>	<b><u>Overbanks</u></b>
Cemetery Wash	0.035 - 0.100	0.040 - 0.100
Centennial Wash	0.030 - 0.070	0.030 - 0.200
Centennial Wash	0.040	0.040
Cholla Wash	0.035 - 0.070	0.030 - 0.070
Circle City Area Washes	0.030 - 0.080	0.030 - 0.080
Cline Creek and Tributaries	0.045 - 0.075	0.045 - 0.080
Consolidated Canal, Ponding	0.025 - 0.075	0.025 - 0.075
Cottonwood Creek	0.030 - 0.060	0.050 - 0.080
Cottonwood Creek Tributary 1	0.045 - 0.050	0.060 - 0.070
Cottonwood Creek Tributary 2	0.050	0.060 - 0.070
Dale Creek	0.025 - 0.035	0.025 - 0.050
Desert Hills Wash	0.012 - 0.055	0.050 - 0.114
Desert Hills Wash - West Branch	0.050 - 0.060	0.052 - 0.065
Desert Lake Wash	0.050	0.060 - 0.065
Diversion Dike Wash	0.035	0.035 - 0.070
East Fork of Cave Creek	0.015 - 0.035	0.035 - 0.045
East Garambullo Wash	0.024 - 0.055	0.036 - 0.060
Eastern Canal, Ponding	0.032 - 0.075	0.032 - 0.075
Echo Canyon Wash	0.018 - 0.025	0.012 - 0.035
Fleming Springs Wash	0.038 - 0.060	0.055 - 0.060
Flying "E" Wash	0.030 - 0.060	0.040 - 0.060
Galloway Wash	0.032 - 0.045	0.016 - 0.045
Galloway Wash	0.032 - 0.045	0.016 - 0.045
Galloway Wash-North Tributary 1	0.025 - 0.040	0.045
Gila Bend Canal	0.045	0.050
Gila River	0.030 - 0.120	0.035 - 1.000
Grapevine Wash	0.020 - 0.052	0.020 - 0.046

**Table 5. Range of Hydraulic Roughness Coefficients (Manning's "n") (Continued)**

<u>Flooding Source</u>	<u>Channel</u>	<u>Overbanks</u>
Grapevine Wash	0.020 - 0.052	0.020 - 0.046
Grapevine Wash	0.020 - 0.052	0.020 - 0.046
Grass Wash	0.025 - 0.040	0.025 - 0.045
Hassayampa River	0.030 - 0.050	0.030 - 1.000
Hospital Wash	0.030 - 0.060	0.040 - 0.060
Interstate 10	0.035	0.045 - 0.050
Jackrabbit Trail	0.012 - 0.030	0.012 - 0.060
Jackrabbit Wash	0.030 - 0.035	0.035 - 0.040
Little San Domingo Wash	0.030	0.040
Lower El Mirage Wash	0.044	0.044
Lower El Mirage Wash	0.030 - 0.045	0.035 - 0.100
Lower El Mirage Wash Tributary	0.040 - 0.045	0.070 - 0.100
Lower El Mirage Wash Tributary	0.044	0.044
Luke Wash (Above Old U.S Highway 80)	0.045 - 0.065	0.055 - 0.120
Luke Wash (Below Old U.S. Highway 80)	0.045 - 0.065	0.120
Luke Wash (For concrete box culverts)	0.017	N/A
Luke Wash - East Main Tributary	0.050	0.050 - 0.120
Luke Wash - East Sub-Tributary	0.045	0.045
Luke Wash - Minor Tributary	0.045	0.045
Martinez Wash	0.025 - 0.060	0.060 - 0.100
McMicken Dam Outlet Wash	0.020 - 0.050	0.035 - 0.080
Mesquite Tank Wash	0.060	0.070
Mockingbird Wash	0.030 - 0.037	0.035 - 0.042
Morgan City Wash	0.035 - 0.100	0.055 - 0.100
New River	0.030 - 0.035	0.030 - 0.060
Centennial Wash North Branch	0.040	0.040
North Fork Bedrock Wash	0.035 - 0.045	0.070

**Table 5. Range of Hydraulic Roughness Coefficients (Manning's "n") (Continued)**

<u>Flooding Source</u>	<u>Channel</u>	<u>Overbanks</u>
North Fork Cholla Wash	0.070	0.070
North Fork White Granite Wash	0.035	0.070
Ocotillo Wash	0.020 - 0.045	0.020 - 0.052
Ocotillo Wash Tributary 1	0.035 - 0.040	0.045
Ocotillo Wash Tributary 1A	0.032 - 0.035	0.040 - 0.045
Ocotillo Wash Tributary 2	0.035 - 0.045	0.040 - 0.050
Ocotillo Wash Tributary 3	0.045 - 0.055	0.055
Ocotillo Wash Tributary 4	0.025 - 0.045	0.045 - 0.050
Osborn Road Wash	0.030 - 0.035	0.050 - 0.070
Paradise Wash	0.013 - 0.055	0.050 - 0.070
Paradise Wash - West Branch	0.050 - 0.055	0.053 - 0.065
Perryville Road Wash	0.022 - 0.045	0.035 - 0.080
Powder House Wash	0.030 - 0.060	0.040 - 0.060
Powerline Wash	0.040 - 0.045	0.050 - 0.055
Powerline Wash	0.040 - 0.041	0.043 - 0.055
Rainbow Wash	0.016 - 0.047	0.030 - 0.150
Rainbow Wash Tributary	0.013 - 0.040	0.040 - 0.050
Ranieri Wash	0.050	0.065
Rodeo Wash	0.025	0.035
Rodeo Wash Tributary	0.025	0.035
Rodger Creek	0.045 - 0.080	0.055 - 0.080
Rowe Wash	0.020 - 0.045	0.020 - 0.052
Rowe Wash Tributary 1	0.045	0.045 - 0.055
Rowe Wash Tributary 2	0.045	0.050 - 0.055
Salt River	0.030 - 0.035	0.040 - 0.050
Sand Tank Wash	0.025 - 0.080	0.035 - 0.060
Scatter Wash, North Branch	0.020 - 0.050	0.070 - 0.150

**Table 5. Range of Hydraulic Roughness Coefficients (Manning's "n") (Continued)**

<b><u>Flooding Source</u></b>	<b><u>Channel</u></b>	<b><u>Overbanks</u></b>
Scatter Wash, South Branch	0.035	0.045
Scott Avenue Wash	0.025 - 0.080	0.035
Scott Avenue Wash	0.035 - 0.080	0.035 - 0.040
Skunk Creek	0.020 - 0.050	0.045 - 0.050
Sols Wash	0.035 - 0.065	0.025 - 0.100
South Branch of Tank Wash	0.040 - 0.050	0.050 - 0.055
Southern Pacific Railroad	0.014 - 0.050	0.014 - 0.100
Southern Pacific Railroad & Southern Pacific Spur, Ponding	0.025 - 0.075	0.025 - 0.075
Stagecoach Pass Wash Overflow	0.030	0.040
Star Wash	0.030 - 0.035	0.035 - 0.040
Star Wash	0.036 - 0.044	0.043 - 0.045
Sweat Canyon Wash	0.035	0.055
Tank Wash	0.040 - 0.041	0.043 - 0.055
Tank Wash	0.040 - 0.046	0.050 - 0.055
Tractor Wash	0.030 - 0.035	0.035 - 0.075
Tributary A	0.042 - 0.044	0.042
Tributary B	0.042	0.045
Tributary C	0.040	0.045
Tributary D	0.038 - 0.040	0.044 - 0.045
Tributary E	0.038 - 0.040	0.044
Trilby Wash	0.040 - 0.100	0.050 - 0.100
Tuthill Dike Wash	0.016 - 0.030	0.016 - 0.050
Twin Buttes Wash	0.024 - 0.055	0.036 - 0.060
Unnamed Tributary of Jackrabbit Wash	0.030 - 0.035	0.035 - 0.040
Unnamed Wash No. 1	0.025 - 0.080	0.030 - 0.035
Unnamed Wash No. 2	0.025 - 0.080	0.030 - 0.070
Wagner Wash	0.040 - 0.105	0.065 - 0.100

**Table 5. Range of Hydraulic Roughness Coefficients (Manning's "n") (Continued)**

<u>Flooding Source</u>	<u>Channel</u>	<u>Overbanks</u>
Waterfall Wash	0.035 - 0.050	0.070 - 0.100
Waterman Wash	0.025 - 0.065	0.028 - 0.070
West Fork White Peak Wash	0.024 - 0.055	0.036 - 0.060
West Garambullo Wash	0.024 - 0.055	0.036 - 0.060
White Granite Wash	0.035	0.070
White Peak Wash	0.024 - 0.055	0.036 - 0.060
White Tanks Wash No. 3	0.035 - 0.045	0.035 - 0.070
Wittmann Area Washes	0.015 - 0.060	0.015 - 0.090
Willow Springs Wash	0.020 - 0.045	0.020 - 0.080
Willow Springs Wash Tributary 1	0.030 - 0.040	0.035 - 0.055
Willow Springs Wash Tributary 1A	0.028 - 0.050	0.040 - 0.060
Willow Springs Wash Tributary 2	0.030 - 0.055	0.045 - 0.060
Willow Springs Wash Tributary 2A	0.040 - 0.050	0.050 - 0.055
Willow Springs Wash Tributary 3	0.060	0.080
Willow Springs Wash Tributary 4	0.040 - 0.050	0.050
Willow Springs Wash Tributary 5	0.035 - 0.050	0.045 - 0.060
Willow Springs Wash Tributary 5A	0.040	0.045 - 0.050

Salt River photos for the 1978 and 1980 flooding events were extensively used in establishing channel parameters for bank station identification, "n" values, and flood flow conveyance patterns. Information from the current airport channelization project was also transferred to the maps. The Salt River model also includes the proposed south dike on the Salt River, which represents an extension of the airport channelization project. This dike is located between Hohokam Expressway (48th Street) and Priest Road on the southern bank of the Salt River.

Water-surface elevations computed in the HEC-2 hydraulic model were calibrated with the known floodplains of the 1978 and 1980 flooding events. This technique involved the adjustment at conveyance boundaries and "n" values.

The starting water-surface elevation for Scatter Wash was taken from Skunk Creek. Manning's "n" values were determined through field investigations and engineering judgment. Scatter Wash is a relatively flat floodplain for the majority of its reach, with a

substantial amount of development in some over bank areas. In the upper Scatter Wash drainage basin, it was determined that flood flows would proceed along the many braided streamlines, until they reach I-17. At I-17, the flows will begin to concentrate in the area north of Williams Road. The 1-percent-annual-chance flows at this point will separate into a north and south branch of Scatter Wash. The Scatter Wash, North Branch, passes under I-17 through two culverts, and over I-17 via Sheet flow action. Scatter Wash, South Branch, continues to flow southerly along the eastern side of I-17, until it eventually ponds and passes under I-17 at Deer Valley Road. Both branches of Scatter Wash join in the vicinity of Rose Garden Lane and 33rd Avenue. At this location, the flows proceed downstream to their confluence with Skunk Creek.

During periods of heavy runoff, flows from Sand Tank and Bender Washes near Gila Bend are intermixed. Highway and railroad bridges traverse both washes. These structures cannot pass a 1-percent-annual-chance flood, resulting in extensive ponding at each obstruction during floods of low frequency.

Apache Creek is located on an alluvial fan near Apache Junction at the base of the Superstition Mountains. A vast network of intermingling channels exists on the fan. Flooding on alluvial fans is often erratic and unpredictable, and flow may occur on separate parts of an alluvial fan during sequent flood events. Flooding in this area was analyzed using alluvial fan methodology by FEMA.

Much of the flooding in the county is caused by sheet flow that originates from alluvial fans. Flows are intercepted by canal levees, railroad embankments, and elevated roads, causing water to pond behind the embankments. Depths of ponding depend on the elevation of the embankments. When the intercepted runoff exceeds ponding storage capacity, the flow will overtop the embankment, thus eroding the levee. Areas immediately down slope of the breakout will be affected by high water. However, flows will fan out to again become shallow sheet flow that is less than 1 foot in depth. Therefore, many areas in the county have been designated Zone X.

Approximate hydraulic analyses for Bulldog, Apache, and Goldfield Washes and the downstream reach of Weekes Wash were carried out using approximate flow velocities and normal-depth calculations. These analyses revealed that the channels have very little capacity relative to the 1-percent-annual-chance flood, and in some cases, the channels are nonexistent. Furthermore, the overbank flow is not confined to a well-defined floodplain, causing shallow flooding. The average depth of flooding for the over bank areas was determined to be less than 1 foot.

Areas of ponding on the upstream side of U.S. Highway 60/89 were also studied. Water-surface elevations for these areas were based on the elevation of the highway grade with shallow flows over the highway of less than 1 foot. This results in average shallow flooding depths behind the highway between 1 and 3 feet.

Cross sections were taken perpendicular to the canals and railroad embankments using topographic maps (Aerial Mapping Company, 1977). The top of the embankments were assumed to be the maximum ponding elevation up slope of the embankment. Flood

hazard areas were then determined by projecting this elevation up slope to intersect the natural ground.

The canal levees and railroad embankments do not permanently retain storm flows, but divert them along the embankments. Most of the canal levees consist of unconsolidated material. These levees are subject to failure when runoff volumes exceed storage capacity. Potential flood hazard areas on the down slope side of the canals were analyzed for levees exceeding 2 feet in height. This analysis determined the distance required for flow through a break in a levee to spread and be reduced to an average depth of 1 foot, using Manning's equation. This analysis assumed the following:

1. A canal breach could occur at any point.
2. A broad, cresting horizontal weir equation with a head of three feet could be used to determine the length of a breach, resulting in a weir from 50 to 100 feet long.
3. Floodwaters would spread at a 45 degree angle from the breach in the levee.
4. The peak discharge at a potential levee break was the maximum canal capacity or the concentration of peak flows from runoff in the watershed, whichever was greater.

Due to the nature of flooding along the New River, Skunk Creek below Carefree Highway, Lower El Mirage Wash, Scatter Wash below Black Canyon Highway and East Branch Scatter Wash, no 0.2-percent-annual-chance flood profiles were developed. The floodplains of these streams are wide; therefore, flow could increase substantially without significantly raising the water-surface elevation or increasing the velocity of flow. Moreover, most of the area contiguous to the floodplains is subject to sheet flow during a 1-percent-annual-chance flood.

In addition, 2-percent-annual-chance flood profiles for the Agua Fria and New Rivers, Skunk Creek below Carefree Highway, Cave Creek below Cave Creek Dam, East Fork of Cave Creek, and Echo Canyon, Scatter, and East Branch Scatter Washes were not computed.

Flood profiles are not applicable for areas of shallow flooding and ponding; therefore, flood profiles are not presented for any of the canals or other areas of shallow flooding, including Sand Tank and Bender Washes, Rodeo Wash and its tributary, Lower El Mirage Wash Tributary, and Airport and Scott Avenue Washes.

For flooding sources studied by approximate methods, 1-percent-annual-chance flood elevations were computed using Manning's equation, USACE Floodplain Information reports (U.S. Department of the Army, 1967; U.S. Department of the Army, 1972; U.S. Department of the Army, 1965; U.S. Department of the Army, 1964), USGS Flood-Prone Area Maps (U.S. Department of the Interior, 1969, 1972), USGS slope maps (U.S. Department of the Interior, 1974-75), high-resolution Skylab photographs (National Aeronautics and Space Administration, Skylab Earth Terrain Camera Color Photography,

1973; National Aeronautics and Space Administration, Skylab Multispectral Camera Black and White Photography), and USGS topographic maps (U.S. Department of the Interior, 1964, et cetera).

The study was limited to the uses of fixed-bed modeling for the hydraulic analyses. However, with the occurrence of a large flood, substantial changes in the riverbed are expected to occur, particularly where the bottom slope is very non-uniform and/or where other structures, such as bridges, cause local increases in the velocity. Resultant changes in the water-surface elevations can be expected.

The hydraulic analyses for the levee failure scenario for Stagecoach Pass Wash were based on the HEC-RAS model developed by DEI Professional Services (2005). For the levee failure scenario the levee was removed from the cross section and the resulting water-surface elevations determined.

Cross-section data for the Stagecoach Pass Wash Overflow hydraulic analyses were obtained from digital topographic mapping developed from Grading Plan Sand Flower II (American Engineering Company, 1954) and North Scottsdale Floodplain Delineation Study (DEI Professional Services, 2006). The starting water-surface elevation was determined by the slope-area method. Water-surface elevations were computed using the USACE HEC-RAS step-backwater computer program (USACE, 2002).

The hydraulic analyses for this study were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

To obtain current elevation, description, and/or location information for National Geodetic Survey bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>. To obtain information about Geodetic Densification and Cadastral Survey bench marks produced by the Maricopa County Department of Transportation, please visit the Flood Control District of Maricopa County website at <http://www.fcd.maricopa.gov/Maps/gismaps/apps/gdacs/application/index.cfm>.

### 3.3 Vertical Datum

All FISs and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum in use for newly created or revised FISs and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD 29). With the finalization of the North American Vertical Datum of 1988 (NAVD 88), many FIS reports and FIRMs are being prepared using NAVD 88 as the referenced vertical datum.

All flood elevations shown in this FIS report and on the FIRM are referenced to NAVD 88. Structure and ground elevations in the community must, therefore, be referenced to NAVD 88. It is important to note that adjacent communities may be referenced to

NGVD 29. This may result in differences in base flood elevations across the corporate limits between the communities.

Prior versions of the FIS report and FIRM were referenced to NGVD 29. When a datum conversion is effected for an FIS report and FIRM, the Flood Profiles, base flood elevations (BFEs) and ERMs reflect the new datum values. To compare structure and ground elevations to 1-percent-annual-chance flood elevations shown in the FIS and on the FIRM, the subject structure and ground elevations must be referenced to the new datum values.

As noted above, the elevations shown in the FIS report and on the FIRM for Maricopa County are referenced to NAVD 88. Ground, structure, and flood elevations may be compared and/or referenced to NGVD 29 by applying a standard conversion factor.

Due to the statistically significant range in conversion factors, an average conversion factor could not be established for the entire community. The elevations shown in the FIS report and on the FIRM were, therefore, converted to NAVD 88 using information provided by Maricopa County. Users wishing to obtain flood elevations referenced to NGVD 29 may use the following Maricopa County website application: <http://www.fcd.maricopa.gov/Maps/gismaps/apps/gdacs/application/index.cfm>. This web tool allows users to obtain point-specific datum conversion values by zooming in and hovering over a Vertcon point with their mouse. The application requires that the Vertcon layer be turned on by selecting the Vertcon checkbox on the layers menu on the left side of the screen. The Vertcon grid referenced in this web application was also used to convert existing flood elevations from NGVD 29 to NAVD 88.

The BFEs shown on the FIRM represent whole-foot rounded values. For example, a BFE of 102.4 will appear as 102 on the FIRM and 102.6 will appear as 103. Therefore, users that wish to convert the elevations in this FIS to NGVD 29 should apply the stated conversion factor(s) to elevations shown on the Flood Profiles and supporting data tables in the FIS report, which are shown at a minimum to the nearest 0.1 foot.

For more information on NAVD 88, see [Converting the National Flood Insurance Program to the North American Vertical Datum of 1988](#), FEMA Publication FIA-20/June 1992.

#### **4.0 FLOODPLAIN MANAGEMENT APPLICATIONS**

The NFIP encourages State and local governments to adopt sound floodplain management programs. To assist in this endeavor, each FIS provides 1-percent-annual-chance floodplain data, which may include a combination of the following: 10-, 2-, 1-, and 0.2-percent-annual-chance flood elevations; delineations of the 1 and 0.2-percent-annual-chance floodplains; and 1-percent-annual-chance floodway. This information is presented on the FIRM and in many components of the FIS, including Flood Profiles, Floodway Data tables, and Summary of Stillwater Elevation tables. Users should reference the data presented in the FIS as well as additional information that may be available at the local community map repository before making flood elevation and/or floodplain boundary determinations.

#### 4.1 Flood Boundaries

To provide a national standard without regional discrimination, the 1-percent-annual-chance flood has been adopted by FEMA as the base flood for floodplain management purposes. The 0.2-percent-annual-chance flood is employed to indicate additional areas of flood risk in the community. For each stream studied by detailed methods, the 1- and 0.2-percent-annual-chance floodplain boundaries have been delineated using the flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using topographic maps at scales of 1:1,200, 1:2,400, 1:4,800, and 1:6,000, with contour intervals of 2 and 4 feet (Harris-Toups Associates, 1976; City of Phoenix, 1967; U.S. Department of the Army, 1976; and Aerial Mapping Company, 1977).

The 1- and 0.2-percent-annual-chance floodplain boundaries are shown on the FIRM (Exhibit 1). In cases where the 1- and 0.2-percent-annual-chance floodplain boundaries are close together, only the 1-percent-annual-chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

Approximate flood boundaries were delineated using USGS topographic maps and Flood-Prone Areas Maps (U.S. Department of the Interior, 1969, 1972; U.S. Department of the Interior, 1964, et cetera), and high-resolution Skylab photographs (National Aeronautics and Space Administration, Skylab Earth Terrain Camera Color Photography, 1973; National Aeronautics and Space Administration, Skylab Multispectral Camera Black and White Photography).

For Stagecoach Pass Wash the 1- and 0.2-percent-annual-chance floodplain boundaries have been delineated using the flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using digital topographic mapping developed from Grading Plan Sand Flower II (American Engineering Company, 1954) and North Scottsdale Floodplain Delineation Study (DEI Professional Services, 2006).

For Stagecoach Pass Wash Overflow the 1-percent-annual-chance floodplain boundaries have been delineated using the flood elevations determined at each cross section. Between cross sections, the boundaries were interpolated using digital topographic mapping developed from Grading Plan Sand Flower II (American Engineering Company, 1954) and North Scottsdale Floodplain Delineation Study (DEI Professional Services, 2006).

#### 4.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard. For purposes of the NFIP, a floodway is used as a tool to assist local

communities in this aspect of floodplain management. Under this concept, the area of the 1-percent-annual-chance floodplain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the 1-percent-annual-chance flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced. The floodways in this study are presented to local agencies as minimum standards that can be adopted directly or that can be used as a basis for additional floodway studies.

The floodways presented in this study were computed on the basis of equal-conveyance reduction from each side of the floodplain. The results of these computations are tabulated at selected cross sections for each stream segment for which a floodway is computed (Table 6).

As shown on the FIRM (Exhibit 1), the floodway boundaries were computed at cross sections. Between cross sections, the boundaries were interpolated. In cases where the floodway and 1-percent-annual-chance floodplain boundaries are either close together or collinear, only the floodway boundary has been shown.

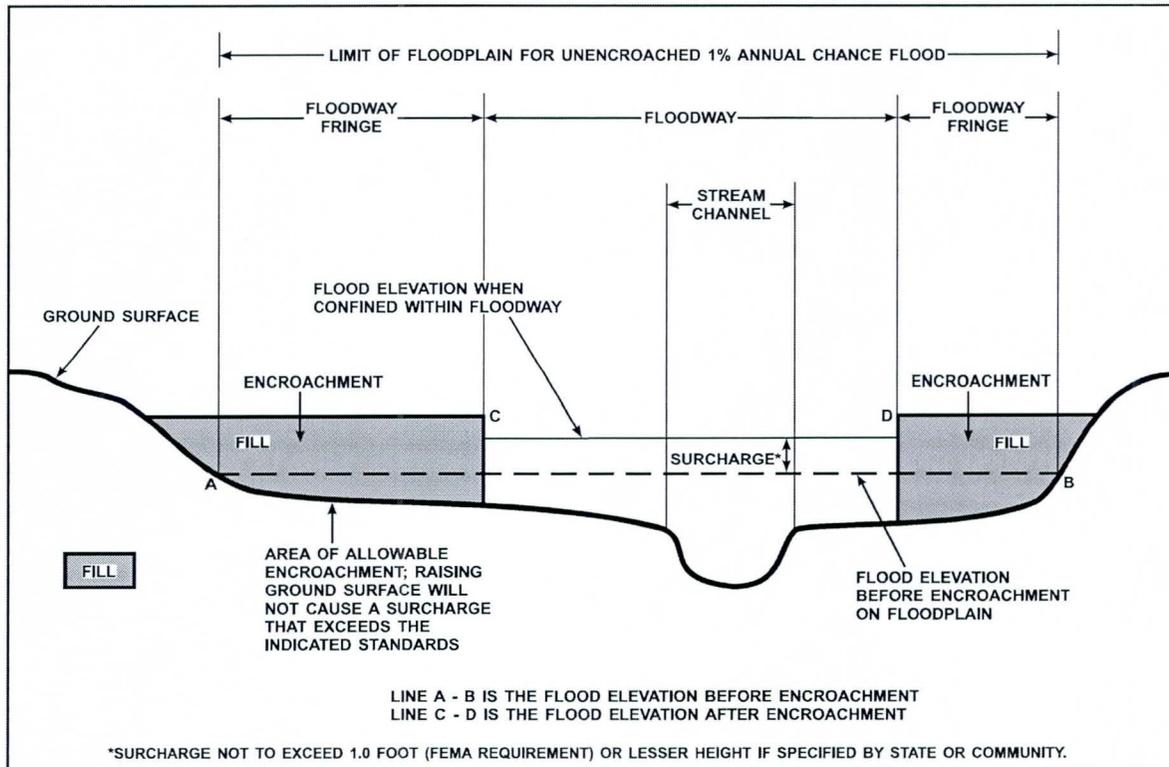
The floodways for Little San Domingo, Mockingbird, and Powder House Washes are shown coincident with the 1-percent-annual-chance floodplain boundaries because of high, hazardous velocities in their respective floodplains. No floodway was computed for Cave Creek below Arizona Canal. No floodway was computed for Wittmann Drainage due to the split flow below Center Street. Floodways for Grass Wash below the U.S. Highway 60 bridge and for Aguila Farm Channel were not computed due to excessive overbank losses.

Floodways are not applicable for areas of shallow flooding; therefore, floodways were not computed for any of the canals, railroad embankments, or for Sand Tank and Bender Washes, Rodeo Wash and its tributary, Airport and Scott Avenue Washes, Lower El Mirage Wash Tributary, and Apache Creek.

Administrative floodways have been established for some approximate SFHAs to aid local officials in regulating and managing of these areas.

The area between the floodway and 1-percent-annual-chance floodplain boundaries is termed the floodway fringe. The floodway fringe encompasses the portion of the floodplain that could be completely obstructed without increasing the water-surface elevation of the 1-percent-annual-chance flood by more than 1.0 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 6.

Figure 6. Floodway Schematic



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
16 East (McMicken Wash)								
A	100	77	494	9.3	1,341.3	1,341.3	1,341.9	0.6
B	1,240	124	708	8.3	1,347.6	1,347.6	1,348.0	0.4
C	3,370	104	470	8.7	1,359.9	1,359.9	1,359.9	0.0
D	5,480	390	975	5.4	1,374.6	1,374.6	1,375.0	0.4
E	6,800	139	571	7.2	1,385.3	1,385.3	1,385.3	0.0
F	7,550	374	625	7.3	1,389.8	1,389.8	1,390.0	0.2

<sup>1</sup>Stream Distance in Feet Above Beardsley Canal

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>16 EAST (MCMICKEN WASH)</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
191st Avenue Wash								
A	459	498	296	2.1	1,062.4	1,062.4	1,062.4	0.0
B	1,806	343	231	2.8	1,074.7	1,074.7	1,074.7	0.0
C	3,590	233	133	2.7	1,088.6	1,088.2	1,088.2	0.0
D	5,518	188	41	2.8	1,100.9	1,100.9	1,100.9	0.0
E	7,593	98	65	2.8	1,114.4	1,114.4	1,114.4	0.0
F	9,615	102	93	4.0	1,123.2	1,123.2	1,123.2	0.0
G	11,832	140	318	1.8	1,136.4	1,136.4	1,136.4	0.0
H	14,420	258	307	0.9	1,147.0	1,147.0	1,147.0	0.0
I	16,690	223	326	0.9	1,153.5	1,153.5	1,153.5	0.0
J	18,728	155	211	2.0	1,158.3	1,158.3	1,158.3	0.0
K	21,247	145	109	4.6	1,168.2	1,168.2	1,168.2	0.0

<sup>1</sup>Stream Distance in Feet Above Limit of Detailed Study

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>191st AVENUE WASH</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River								
A	845	2,300	9,911	5.1	923.4	918.7 <sup>2</sup>	919.4 <sup>2</sup>	0.7
B	1,827	2,560	12,213	4.2	923.4	921.7 <sup>2</sup>	922.5 <sup>2</sup>	0.8
C	2,835	2,620	12,420	4.1	924.1	924.1 <sup>2</sup>	925.0 <sup>2</sup>	0.9
D	3,839	2,300	11,634	4.4	926.6	926.6	927.4	0.8
E	4,773	2,030	9,554	5.3	928.9	928.9	929.6	0.7
F	5,702	1,770	9,559	5.3	930.9	930.9	931.7	0.8
G	6,732	1,500	6,899	7.4	933.2	933.2	934.1	0.9
H	7,698	1,756	7,637	6.7	936.1	936.1	937.0	0.9
I	8,701	1,839	12,618	4.0	938.6	938.6	939.4	0.8
J	9,705	1,935	11,464	4.4	939.3	939.3	940.1	0.8
K	10,681	1,861	9,230	5.5	940.2	940.2	940.9	0.7
L	11,669	1,661	8,130	6.3	942.1	942.1	942.6	0.5
M	12,508	1,480	8,395	6.1	943.9	943.9	944.7	0.8
N	13,490	1,349	8,113	6.3	946.1	946.1	946.9	0.8
O	14,483	1,504	8,871	5.7	948.2	948.2	949.0	0.8
P	15,492	2,050	10,930	4.7	950.3	950.3	950.8	0.5
Q	16,474	2,048	11,125	4.6	951.6	951.6	951.9	0.3
R	17,487	1,867	1,867	4.2	952.8	952.8	953.1	0.3
S	18,496	1,428	8,551	6.0	954.1	954.1	954.2	0.1
T	19,182	1,184	4,444	11.5	955.1	955.1	955.1	0.0
U	19,547	1,147	6,892	7.4	957.4	957.4	957.4	0.0
V	20,418	819	5,429	9.4	959.9	959.9	960.0	0.1
W	21,173	1,110	8,761	5.9	963.1	963.1	963.1	0.0
X	21,986	1,112	8,522	6.1	963.9	963.9	963.9	0.0
Y	22,884	1,106	4,514	11.5	964.9	964.9	964.9	0.0
Z	23,924	1,113	8,127	6.4	968.3	968.3	968.3	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

<sup>2</sup>Elevations Computed Without Consideration of Backwater Effects from Gila River

T  
A  
B  
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E  
6

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**AGUA FRIA RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
AA	25,133	1,107	8,872	5.9	969.6	969.6	969.6	0.0
AB	26,062	1,107	8,580	6.1	970.5	970.5	970.5	0.0
AC	26,564	1,115	6,687	7.8	970.8	970.8	970.8	0.0
AD	27,752	1,282	7,891	6.6	973.1	973.1	973.1	0.0
AE	28,433	1,389	5,712	9.1	974.6	974.6	974.6	0.0
AF	29,082	1,330	5,734	9.1	978.1	978.1	978.1	0.0
AG	29,394	1,387	7,518	7.2	979.6	979.6	979.6	0.0
AH	30,217	1,256	7,613	7.1	981.5	981.5	981.5	0.0
AI	31,083	1,127	7,882	6.9	983.6	983.6	983.6	0.0
AJ	31,664	1,119	8,113	6.7	984.3	984.3	984.3	0.0
AK	32,615	1,113	7,701	7.1	986.0	986.0	986.0	0.0
AL	33,523	1,112	7,853	6.9	987.4	987.4	987.4	0.0
AM	34,526	1,116	6,806	8.0	989.0	989.0	989.0	0.0
AN	35,471	1,067	6,188	8.8	991.0	991.0	991.0	0.0
AO	36,633	1,112	7,434	7.3	993.6	993.6	993.6	0.0
AP	37,451	1,106	7,359	7.4	995.7	995.7	995.7	0.0
AQ	38,491	1,115	7,493	7.3	999.5	999.5	999.5	0.0
AR	39,452	1,063	7,770	7.0	1001.8	1001.8	1,001.8	0.0
AS	40,445	1,002	7,106	7.7	1003.7	1003.7	1,003.7	0.0
AT	41,437	966	7,454	7.3	1005.4	1005.4	1,005.4	0.0
AU	42,451	1,032	8,204	6.6	1006.6	1006.6	1,006.6	0.0
AV	43,417	1,315	9,309	5.8	1007.9	1007.9	1,007.9	0.0
AW	44,167	1,501	8,089	6.7	1009.3	1009.3	1,009.3	0.0
AX	45,329	1,507	7,593	7.2	1011.9	1011.9	1,011.9	0.0
AY	46,432	2,452	9,655	5.6	1016.3	1016.3	1,016.4	0.1
AZ	47,663	2,040	7,829	6.9	1019.3	1019.3	1,019.6	0.3

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	AGUA FRIA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
BA	48,861	1,738	10,150	5.4	1,023.6	1,023.6	1,023.6	0.0
BB	49,844	1,694	10,162	5.4	1,025.0	1,025.0	1,025.0	0.0
BC	50,705	2,072	9,395	5.8	1,026.4	1,026.4	1,026.4	0.0
BD	51,640	10	8,651	6.3	1,028.1	1,028.1	1,028.1	0.0
BE	52,577	2,203	11,152	4.9	1,030.5	1,030.5	1,030.5	0.0
BF	53,574	1,394	5,092	5.9	1,032.2	1,032.2	1,032.6	0.4
BG	54,543	1,231	5,331	5.6	1,034.6	1,034.6	1,035.0	0.4
BH	55,563	740	3,634	8.3	1,036.4	1,036.4	1,036.7	0.3
BI	56,482	749	4,886	6.1	1,040.3	1,040.3	1,040.9	0.6
BJ	57,516	985	6,513	4.6	1,042.3	1,042.3	1,042.9	0.6
BK	58,648	730	4,884	6.1	1,045.1	1,045.1	1,045.3	0.2
BL	60,638	812	5,451	5.5	1,048.8	1,048.8	1,049.0	0.2
BM	61,164	620	2,998	10.0	1,050.3	1,050.3	1,050.3	0.0
BN	62,438	892	5,128	6.7	1,056.3	1,056.3	1,056.3	0.0
BO	63,532	1,738	6,858	5.0	1,060.6	1,060.6	1,061.0	0.4
BP	64,311	2,408	6,640	5.2	1,062.9	1,062.9	1,063.2	0.3
BQ	65,058	2,709	17,026	2.0	1,065.8	1,065.8	1,066.2	0.4
BR	66,132	2,586	19,624	1.8	1,067.6	1,067.6	1,067.8	0.2
BS	67,272	2,260	8,235	4.6	1,068.7	1,068.7	1,068.8	0.1
BT	68,150	850	9,133	3.8	1,069.3	1,069.3	1,069.4	0.1
BU	69,132	680	5,266	6.9	1,069.4	1,069.4	1,069.6	0.2
BV	70,130	447	4,260	8.1	1,072.9	1,072.9	1,072.9	0.0
BW	71,147	552	5,639	6.1	1,074.7	1,074.7	1,074.7	0.0
BX	72,560	1,342	7,481	4.7	1,077.4	1,077.4	1,077.4	0.0
BY	73,571	1,334	5,387	6.4	1,080.9	1,080.9	1,081.1	0.2
BZ	74,592	1,040	5,776	6.0	1,084.0	1,084.0	1,084.3	0.3

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	AGUA FRIA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
CA	75,602	1,030	4,856	7.1	1,087.5	1,087.5	1,087.5	0.0
CB	76,107	1,170	5,947	5.8	1,089.3	1,089.3	1,089.4	0.1
CC	77,114	1,350	5,474	6.3	1,091.7	1,091.7	1,092.0	0.3
CD	78,126	1,364	6,635	5.2	1,094.5	1,094.5	1,095.0	0.5
CE	79,094	1,730	5,339	6.5	1,097.5	1,097.5	1,097.6	0.1
CF	80,136	830	5,541	6.2	1,100.4	1,100.4	1,100.6	0.2
CG	81,623	795	4,451	7.8	1,103.2	1,103.2	1,104.0	0.8
CH	82,598	558	3,361	10.3	1,106.3	1,106.3	1,107.0	0.7
CI	83,632	661	5,170	6.7	1,109.8	1,109.8	1,110.6	0.8
CJ	84,468	582	4,035	8.6	1,111.7	1,111.7	1,112.3	0.6
CK	85,477	618	4,756	7.3	1,114.6	1,114.6	1,115.3	0.7
CL	86,475	690	6,267	5.5	1,116.0	1,116.0	1,117.0	1.0
CM	87,474	453	4,477	7.7	1,117.4	1,117.4	1,118.1	0.7
CN	89,690	393	4,588	7.8	1,124.5	1,124.5	1,124.5	0.0
CO	90,693	372	4,255	8.5	1,126.2	1,126.2	1,126.2	0.0
CP	91,685	395	4,031	8.9	1,129.1	1,129.1	1,129.1	0.0
CQ	92,709	891	10,837	3.3	1,131.6	1,131.6	1,131.6	0.0
CR	93,663	1,105	11,240	3.2	1,132.1	1,132.0	1,132.0	0.0
CS	94,611	849	3,550	10.1	1,138.0	1,138.1	1,138.5	0.4
CT	95,575	933	8,678	4.3	1,138.4	1,138.4	1,138.8	0.4
CU	97,013	1,048	7,900	4.8	1,139.1	1,139.2	1,139.8	0.6
CV	97,975	1,300	3,372	11.1	1,140.7	1,140.8	1,140.8	0.0
CW	98,972	1,007	3,608	10.4	1,148.9	1,149.1	1,149.6	0.5
CX	99,977	992	5,533	6.8	1,153.7	1,153.8	1,154.3	0.5
CY	100,956	964	5,984	6.3	1,156.8	1,156.9	1,157.1	0.2
CZ	101,468	1,077	7,207	5.2	1,157.9	1,157.9	1,158.1	0.2

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	AGUA FRIA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
DA	102,120	1,311	5,585	7.0	1,159.1	1,159.1	1,159.2	0.1
DB	103,124	1,645	4,444	8.4	1,162.4	1,162.4	1,162.4	0.0
DC	104,127	2,155	7,965	4.7	1,166.0	1,166.0	1,166.4	0.4
DD	105,104	2,238	6,894	5.4	1,168.4	1,168.4	1,168.6	0.2
DE	106,112	2,207	7,057	5.3	1,171.6	1,171.6	1,172.0	0.4
DF	107,110	1,818	6,409	5.9	1,174.2	1,174.2	1,174.6	0.4
DG	108,124	1,314	5,569	6.7	1,177.3	1,177.3	1,177.7	0.4
DH	109,074	1,120 <sup>2</sup>	5,215	7.2	1,179.9	1,179.9	1,180.3	0.4
DI	110,088	669	4,141	9.1	1,183.2	1,183.2	1,183.9	0.7
DJ	111,086	779	5,748	6.5	1,186.2	1,186.2	1,187.1	0.9
DK	112,628	1,100	4,473	7.8	1,189.1	1,189.1	1,190.0	0.9
DL	113,604	1,029	5,900	5.9	1,192.1	1,192.1	1,192.5	0.4
DM	114,581	923	4,911	7.1	1,193.2	1,193.2	1,193.6	0.4
DN	115,072	937	7,288	4.8	1,195.5	1,195.5	1,195.6	0.1
DO	116,524	951	4,724	7.4	1,198.0	1,198.0	1,198.3	0.3
DP	117,517	1,397	6,377	5.5	1,202.6	1,202.6	1,202.7	0.1
DQ	118,525	1,678	5,335	6.6	1,204.0	1,204.0	1,204.9	0.9
DR	119,534	2,094	7,393	4.5	1,208.5	1,208.5	1,208.5	0.0
DS	120,532	2,919	4,634	7.1	1,210.8	1,210.8	1,210.8	0.0
DT	121,519	3,179	6,992	4.7	1,214.7	1,214.7	1,214.7	0.0
DU	122,522	3,155	7,845	4.2	1,217.5	1,217.5	1,217.5	0.0
DV	123,019	3,010	6,330	5.2	1,219.0	1,219.0	1,219.0	0.0
DW	124,022	2,201	6,643	5.0	1,223.0	1,223.0	1,223.0	0.0
DX	125,025	1,420	4,826	6.8	1,227.1	1,227.1	1,227.3	0.2
DY	126,023	1,088	5,467	6.0	1,230.5	1,230.5	1,231.2	0.7
DZ	127,037	1,005	4,787	6.5	1,234.6	1,234.6	1,235.4	0.8

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

<sup>2</sup>Cross Section Topwidth Does Not Include the Topwidth for McMicken Dan Outlet

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	AGUA FRIA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
EA	128,035	1,106	5,901	5.3	1,238.0	1,238.0	1,238.8	0.8
EB	129,039	1,875	8,274	3.7	1,240.5	1,240.5	1,241.0	0.5
EC	130,033	2,028	7,929	3.9	1,242.1	1,242.1	1,242.6	0.5
ED	130,516	1,977	5,337	6.4	1,243.6	1,243.6	1,244.0	0.4
EE	131,241	1,113	2,755	10.5	1,245.5	1,245.5	1,245.5	0.0
EF	131,707	1,180	6,135	4.7	1,251.2	1,251.2	1,251.2	0.0
EG	132,740	1,289	5,212	5.6	1,253.4	1,253.4	1,253.4	0.0
EH	134,232	1,583	6,214	4.7	1,258.6	1,258.6	1,258.6	0.0
EI	135,739	1,663	6,125	4.7	1,264.1	1,264.1	1,264.1	0.0
EJ	136,735	1,123	5,023	5.8	1,267.0	1,267.0	1,267.0	0.0
EK	137,920	1,023	5,119	5.7	1,270.3	1,270.3	1,270.7	0.4
EL	138,541	1,051	4,668	6.2	1,270.9	1,270.9	1,271.7	0.8
EM	139,434	1,520	6,654	4.4	1,276.0	1,276.0	1,276.9	0.9
EN	140,354	1,830	5,163	5.6	1,278.7	1,278.7	1,279.6	0.9
EO	141,257	1,510	6,112	4.7	1,282.5	1,282.5	1,283.4	0.9
EP	143,127	980	5,991	4.5	1,288.9	1,288.9	1,289.8	0.9
EQ	144,243	904	5,152	5.2	1,292.1	1,292.1	1,292.6	0.5
ER	144,704	796	4,984	5.4	1,293.3	1,293.3	1,294.0	0.7
ES	147,099	1,630	5,842	4.6	1,300.6	1,300.6	1,301.6	1.0
ET	149,109	1,040	5,059	4.9	1,307.9	1,307.9	1,308.9	1.0
EU	150,044	960	4,610	5.4	1,311.5	1,311.5	1,312.2	0.7
EV	150,966	950	4,233	5.9	1,314.3	1,314.3	1,315.2	0.9
EW	151,890	860	4,014	6.2	1,317.0	1,317.0	1,317.7	0.7
EX	152,579	394	3,195	7.8	1,319.4	1,319.4	1,320.3	0.9
EY	153,380	350	2,601	9.6	1,321.5	1,321.5	1,322.1	0.6
EZ	154,374	488	3,071	8.1	1,325.1	1,325.1	1,326.0	0.9

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	AGUA FRIA RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
FA	155,332	803	4,756	5.3	1,328.8	1,328.8	1,329.5	0.7
FB	156,309	733	3,490	6.6	1,331.0	1,331.0	1,331.8	0.8
FC	157,149	607	3,504	6.6	1,334.5	1,334.5	1,335.1	0.6
FD	157,972	516	3,019	7.6	1,336.3	1,336.3	1,337.0	0.7
FE	158,912	665	4,026	5.7	1,340.8	1,340.8	1,341.5	0.7
FF	159,820	630	4,583	5.0	1,342.7	1,342.7	1,343.3	0.6
FG	160,792	497	3,456	6.7	1,346.4	1,346.4	1,347.3	0.9
FH	161,800	512	3,986	5.8	1,349.1	1,349.1	1,349.8	0.7
FI	162,809	416	2,984	7.7	1,351.8	1,351.8	1,352.5	0.7
FJ	163,838	327	2,404	8.7	1355.1	1355.1	1,355.4	0.3
FK	164,757	379	2,986	7.0	1358.8	1358.8	1,359.0	0.2
FL	165,760	673	3,356	6.3	1360.3	1360.3	1,361.2	0.9
FM	166,758	680	4,283	4.9	1363.3	1363.3	1,364.2	0.9
FN	167,698	770	4,385	4.8	1366.8	1366.8	1,367.6	0.8
FO	168,786	596	3,648	5.8	1369.7	1369.7	1,370.3	0.6
FP	169,736	570	3,619	5.8	1371.8	1371.8	1,372.7	0.9
FQ	170,739	517	3,487	5.4	1374.5	1374.5	1,375.3	0.8
FR	171,737	541	2,714	7.0	1377.0	1377.0	1,377.4	0.4
FS	172,756	522	2,972	6.4	1380.5	1380.5	1,381.2	0.7
FT	173,696	513	3,363	5.6	1382.3	1382.3	1,383.2	0.9
FU	174,330	618	3,363	5.6	1383.9	1383.9	1,384.5	0.6
FV	175,127	620	2,332	8.1	1385.8	1385.8	1,386.1	0.3
FW	175,819	304	1,790	10.6	1390.4	1390.4	1,390.4	0.0
FX	176,553	358	3,235	5.9	1397.5	1397.5	1,397.5	0.0
FY	177,223	581	4,259	4.5	1398.4	1398.4	1,398.5	0.1
FZ	177,772	316	2,125	8.9	1399.7	1399.7	1,399.7	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**AGUA FRIA RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Agua Fria River (Cont'd)								
GA	178,406	313	2,666	7.1	1,401.8	1,401.8	1,401.8	0.0
GB	179,076	291	2,682	3.4	1,402.9	1,402.9	1,402.9	0.0
GC	180,080	307	1,480	6.1	1,404.1	1,404.1	1,404.1	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**AGUA FRIA RIVER**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Aguila Farm Channel								
A	755	3,400	6,868	3.2	2,115.8	2,115.8	2,116.3	0.5
B	1,362	3,700	6,488	3.3	2,118.4	2,118.4	2,119.0	0.6
C	2,207	4,100	7,786	2.5	2,121.6	2,121.6	2,122.6	1.0
D	2,582	4,200	9,271	2.1	2,122.3	2,122.3	2,123.3	1.0
E	3,886	5,038	6,982	2.8	2,124.9	2,124.9	2,125.4	0.5
F	5,058	5,597	6,007	3.2	2,127.7	2,127.7	2,128.0	0.3
G	5,729	5,702	7,521	2.6	2,128.8	2,128.8	2,129.4	0.6
H	6,468	5,619	4,277	4.5	2,129.8	2,129.8	2,130.7	0.9
I	6,933	5,553	7,896	2.4	2,131.4	2,131.4	2,132.4	1.0
J	8,538	5,007	6,028	3.2	2,136.4	2,136.4	2,137.1	0.7
K	10,032	4,955	7,559	2.6	2,141.3	2,141.3	2,141.8	0.5
L	10,560	4,885	4,598	4.2	2,142.6	2,142.6	2,143.1	0.5
M	11,595	4,466	5,851	3.3	2,146.0	2,146.0	2,146.2	0.2
N	12,667	4,210	6,236	3.1	2,149.1	2,149.1	2,149.4	0.3
O	13,242	4,126	5,149	3.7	2,150.5	2,150.5	2,150.9	0.4
P	14,515	3,764	5,460	3.5	2,153.3	2,153.3	2,153.8	0.5
Q	15,703	3,585	5,203	3.2	2,155.4	2,155.4	2,156.3	0.9
R	16,215	3,491	6,467	2.6	2,156.9	2,156.9	2,157.7	0.8
S	17,202	3,481	5,630	3.0	2,160.3	2,160.3	2,160.9	0.6
T	18,184	3,483	5,533	3.1	2,162.6	2,162.6	2,163.6	1.0
U	19,441	3,284	5,507	3.1	2,167.1	2,167.1	2,167.2	0.1
V	20,935	2,984	5,270	3.2	2,171.8	2,171.8	2,171.9	0.1
W	21,912	2,943	5,544	3.0	2,175.3	2,175.3	2,175.5	0.2
X	23,390	2,910	4,607	3.7	2,178.8	2,178.8	2,179.6	0.8
Y	24,399	2,939	4,813	3.5	2,182.5	2,182.5	2,183.5	1.0
Z	25,386	2,745	4,239	4.0	2,186.2	2,186.2	2,187.0	0.8

<sup>1</sup>Stream Distance of Feet Above Confluence With Centennial Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>AGUILA FARM CHANNEL</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Aguila Farm Channel (Cont'd)								
AA	26,389	2,549	4,597	3.7	2,190.6	2,190.6	2,190.6	0.0
AB	27,398	2,550	4,108	4.1	2,195.1	2,195.1	2,195.1	0.0
AC	28,396	2,698	7,068	5.8	2,198.7	2,198.7	2,198.7	0.0
AD	29,172	2,083	3,228	8.8	2,201.0	2,201.0	2,201.0	0.0
AE	30,175	2,749	8,561	3.8	2,205.9	2,205.9	2,205.9	0.0
AF	31,226	2,332	5,020	7.8	2,206.9	2,206.9	2,206.9	0.0
AG	32,261	2,304	4,248	9.2	2,209.8	2,209.8	2,209.8	0.0
AH	33,275	1,788	3,790	10.9	2,214.3	2,214.3	2,214.3	0.0
AI	34,283	1,533	3,497	9.2	2,218.0	2,218.0	2,218.0	0.0
AJ	35,281	1,638	3,985	7.9	2,221.7	2,221.7	2,221.7	0.0
AK	36,284	1,510	3,687	9.2	2,225.2	2,225.2	2,225.2	0.0
AL	37,282	1,436	3,776	8.6	2,228.3	2,228.3	2,228.3	0.0
AM	38,306	1,528	4,137	7.9	2,231.8	2,231.8	2,231.8	0.0
AN	39,283	1,625	4,123	7.7	2,235.0	2,235.0	2,235.0	0.0
AO	40,292	1,369	3,547	8.9	2,237.5	2,237.5	2,237.5	0.0
AP	41,327	1,462	3,337	10.7	2,240.6	2,240.6	2,240.7	0.1
AQ	42,335	1,639	4,073	8.2	2,244.2	2,244.2	2,244.2	0.0
AR	43,317	1,723	3,835	6.8	2,247.1	2,247.1	2,247.1	0.0
AS	44,373	1,780	4,197	8.1	2,251.1	2,251.1	2,251.1	0.0
AT	45,397	2,037	3,947	6.4	2,254.5	2,254.5	2,254.5	0.0
AU	46,406	1,738	4,413	6.6	2,258.1	2,258.1	2,258.1	0.0
AV	47,404	2,171	4,665	5.7	2,261.0	2,261.0	2,261.0	0.0
AW	48,418	2,633	4,962	6.0	2,264.5	2,264.5	2,264.5	0.0
AX	49,421	2,611	4,316	5.7	2,268.2	2,268.2	2,268.2	0.0
AY	50,419	2,427	4,698	3.9	2,272.1	2,272.1	2,272.1	0.0
AZ	51,422	2,632	4,658	6.9	2,275.6	2,275.6	2,275.6	0.0

<sup>1</sup>Stream Distance of Feet Above Confluence With Centennial Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>AGUILA FARM CHANNEL</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Aguila Farm Channel (Cont'd)								
BA	52,109	2,500	4,004	8.4	2,278.6	2,278.6	2,278.9	0.3
BB	53,428	2,707	4,773	5.6	2,282.7	2,282.7	2,282.8	0.1
BC	54,432	3,045	4,869	6.5	2,286.5	2,286.5	2,286.5	0.0
BD	55,171	2,865	5,065	6.1	2,289.8	2,289.8	2,289.8	0.0
BE	56,412	2,130	4,565	6	2,293.2	2,293.2	2,293.2	0.0
BF	57,436	1,671	4,458	4.5	2,295.6	2,295.6	2,295.6	0.0
BG	58,439	2,306	4,146	4.4	2,298.9	2,298.9	2,298.9	0.0
BH	59,453	2,616	4,949	3.7	2,302.2	2,302.2	2,302.2	0.0
BI	60,461	2,459	3,781	4.7	2,305.7	2,305.7	2,305.7	0.0
BJ	60,979	3,579	4,601	3.8	2,308.5	2,308.5	2,308.5	0.0

<sup>1</sup>Stream Distance of Feet Above Confluence With Centennial Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>AGUILA FARM CHANNEL</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Amir Wash								
A	2,573	162	289	5.2	2,121.5	2,121.5	2,121.8	0.3
B	3,958	200	274	5.5	2,146.7	2,146.7	2,146.8	0.1
C	5,318	691	391	3.4	2,164.8	2,164.8	2,164.8	0.0
D	6,458	81	185	7.1	2,184.7	2,184.7	2,184.7	0.0
E	7,868	198	280	4.3	2,204.7	2,204.7	2,204.7	0.0
F	9,158	155	226	5.3	2,218.8	2,218.8	2,218.8	0.0
G	10,638	110	210	5.8	2,238.9	2,238.9	2,239.2	0.3
H	11,903	100	124	5.2	2,251.5	2,251.5	2,251.5	0.0
I	13,068	95	125	5.2	2,265.2	2,265.2	2,265.2	0.0

<sup>1</sup>Stream Distance in Feet Above U.S. Highway 89

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**AMIR WASH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Andora Hills Wash								
A	681	53	279	11.5	2,012.2	2,012.2	2,012.2	0.0
B	1,246	54	204	9.4	2,025.0	2,025.0	2,025.0	0.0
C	1,674	136	356	8.7	2,037.5	2,037.5	2,037.5	0.0
D	2,360	236	323	9.6	2,052.3	2,052.3	2,052.3	0.0
E	3,126	341	440	7.1	2,069.8	2,069.8	2,069.8	0.0
F	3,849	105	423	8.8	2,082.3	2,082.3	2,082.3	0.0
G	4,166	147	391	7.4	2,089.3	2,089.3	2,089.3	0.0
H	4,763	52	426	6.8	2,104.6	2,104.6	2,104.9	0.3
I	5,037	63	263	10.5	2,110.5	2,110.5	2,110.5	0.0
J	5,729	126	338	8.0	2,125.4	2,125.4	2,125.4	0.0
K	5,982	34	239	11.3	2,130.0	2,130.0	2,130.5	0.5
L	6,452	44	292	9.3	2,136.1	2,136.1	2,137.1	1.0
M	7,144	189	692	3.9	2,149.5	2,149.5	2,149.5	0.0
N	7,593	32	208	13.0	2,157.1	2,157.1	2,157.2	0.1
O	8,210	59	267	9.0	2,169.7	2,169.7	2,170.1	0.4
P	8,807	86	419	6.3	2,179.9	2,179.9	2,180.0	0.1
Q	9,668	116	432	5.8	2,192.5	2,192.5	2,192.5	0.0
R	9,969	99	354	7.1	2,195.5	2,195.5	2,195.7	0.2
S	10,433	36	231	10.8	2,202.7	2,202.7	2,203.1	0.4
T	10,856	49	248	9.1	2,212.1	2,212.1	2,212.1	0.0
U	11,716	71	380	6.0	2,243.3	2,243.3	2,243.7	0.4
V	12,482	95	371	7.1	2,257.6	2,257.6	2,257.7	0.1
W	13,057	66	347	6.5	2,265.4	2,265.4	2,266.4	1.0
X	13,601	51	279	8.1	2,274.9	2,274.9	2,275.9	1.0
Y	14,145	46	228	9.1	2,284.8	2,284.8	2,285.3	0.5
Z	14,541	70	396	5.2	2,290.6	2,290.6	2,291.6	1.0
AA	15,544	59	350	5.9	2,303.5	2,303.5	2,304.5	1.0
AB	15,961	79	338	6.1	2,308.5	2,308.5	2,309.4	0.9

<sup>1</sup>Stream Distance in Feet Above Confluence With Cave Creek

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FEDERAL EMERGENCY MANAGEMENT AGENCY

MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS

FLOODWAY DATA

ANDORA HILLS WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash								
A	0	590	3,006	5.7	1,661.5	1,661.5	1,661.6	0.1
B	1,790	500	2,572	6.7	1,670.9	1,670.9	1,671.9	1.0
C	4,230	619	3,081	5.6	1,686.0	1,686.0	1,686.7	0.7
D	5,690	410	2,995	5.7	1,697.1	1,697.1	1,697.4	0.3
E	8,880	639	3,311	5.2	1,714.7	1,714.7	1,714.9	0.2
F	10,810	305	2,083	8.2	1,726.2	1,726.2	1,726.4	0.2
G	12,280	535	3,744	4.6	1,736.2	1,736.2	1,736.3	0.1
H	13,460	293	1,755	7.7	1,740.8	1,740.8	1,740.8	0.0
I	15,335	410	1,678	4.5	1,751.3	1,751.3	1,751.4	0.1
J	16,955	340	1,348	5.6	1,761.9	1,761.9	1,762.7	0.8
K	19,375	380	1,243	5.8	1,780.1	1,780.1	1,780.2	0.1
L	21,715	194	649	8.2	1,798.1	1,798.1	1,798.2	0.1
M	24,083	867	1,990	3.5	1,818.6	1,818.6	1,818.6	0.0
N	25,648	450	1,418	5.1	1,833.4	1,833.4	1,834.2	0.8
O	27,110	292	1,152	6.3	1,847.5	1,847.5	1,848.5	1.0
P	28,780	310	1,431	5.0	1,862.2	1,862.2	1,862.6	0.4
Q	29,440	395	1,442	5.0	1,870.3	1,870.3	1,870.5	0.2
R	30,220	310	1,277	5.6	1,887.5	1,887.5	1,887.7	0.2
S	32,815	240	1,060	6.8	1,905.4	1,905.4	1,905.6	0.2
T	34,270	185	962	7.5	1,921.0	1,921.0	1,921.1	0.1
U	36,231	140	830	8.7	1,939.9	1,939.9	1,940.5	0.6
V	38,231	187	1,088	6.6	1,961.0	1,961.0	1,961.2	0.2
W	39,231	250	1,328	5.4	1,971.7	1,971.7	1,971.8	0.1
X	40,531	280	1,218	5.9	1,986.8	1,986.8	1,987.4	0.6
Y	41,731	170	930	4.1	2,000.7	2,000.7	2,000.7	0.0
Z	42,731	87	572	6.7	2,011.8	2,011.8	2,012.7	0.9

<sup>1</sup>Stream Distance in Feet Above Limit of Detailed Study

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>APACHE WASH</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash (Cont'd)								
AA	43,731	123	621	6.2	2,023.6	2,023.6	2,024.0	0.4
AB	44,231	95	484	7.7	2,029.0	2,029.0	2,029.3	0.3
AC	44,694	77	391	9.5	2,034.7	2,034.7	2,034.7	0.0
AD	45,152	77	448	8.3	2,040.8	2,040.8	2,040.9	0.1
AE	45,602	94	425	8.8	2,046.7	2,046.7	2,046.7	0.0
AF	46,147	100	427	8.2	2,054.6	2,054.6	2,054.8	0.2
AG	46,692	74	353	9.9	2,062.4	2,062.4	2,062.6	0.2
AH	47,219	138	515	5.8	2,070.5	2,070.5	2,070.5	0.0
AI	47,820	48	249	11.9	2,081.7	2,081.7	2,081.7	0.0
AJ	48,430	186	434	6.8	2,097.7	2,097.7	2,097.7	0.0
AK	49,013	77	312	9.5	2,111.1	2,111.1	2,111.1	0.0
AL	49,560	78	225	6.9	2,122.4	2,122.4	2,122.4	0.0
AM	50,060	83	208	7.5	2,132.2	2,132.2	2,132.2	0.0
AN	50,559	75	204	7.7	2,145.3	2,145.3	2,145.3	0.0
AO	51,079	50	170	9.2	2,165.7	2,165.7	2,165.7	0.0
AP	51,614	54	172	9.1	2,182.6	2,182.6	2,182.6	0.0
AQ	52,205	89	200	7.8	2,197.5	2,197.5	2,197.5	0.0
AR	52,791	40	149	10.5	2,221.9	2,221.9	2,221.9	0.0

<sup>1</sup>Stream Distance in Feet Above Limit of Detailed Study

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	APACHE WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash Split Flow Area A	1,372	448	543	3.4	1,797.2	1,797.2	1,797.4	0.2
Apache Wash Tributary 1								
A	789	68	246	2.6	1,775.4	1,775.4	1,775.5	0.1
B	1,108	88	177	3.6	1,775.7	1,775.7	1,776.3	0.6
C	1,636	45	94	6.8	1,781.2	1,781.2	1,781.2	0.0
D	2,220	50	143	4.5	1,785.5	1,785.5	1,786.5	1.0
E	2,745	40	108	6.0	1,790.3	1,790.3	1,790.5	0.2
F	3,274	69	148	4.3	1,794.9	1,794.9	1,795.5	0.6
G	3,591	60	130	4.9	1,797.3	1,797.3	1,797.5	0.2
H	3,761	52	79	8.1	1,798.3	1,798.3	1,798.9	0.6
I	3,830	60	95	6.7	1,800.2	1,800.2	1,800.2	0.0
J	4,066	60	102	5.9	1,802.3	1,802.3	1,802.9	0.6
K	4,435	77	171	3.6	1,805.2	1,805.2	1,806.0	0.8
L	4,963	44	91	6.7	1,809.4	1,809.4	1,809.5	0.1
M	5,490	40	116	5.3	1,814.4	1,814.4	1,815.0	0.6
N	6,018	40	96	6.3	1,819.2	1,819.2	1,819.8	0.6
O	6,600	40	127	4.8	1,823.8	1,823.8	1,824.6	0.8
P	7,128	35	76	8.0	1,829.7	1,829.7	1,829.9	0.2
Q	7,711	35	104	5.9	1,836.3	1,836.3	1,837.1	0.8
R	8,240	35	98	6.2	1,841.0	1,841.0	1,841.5	0.5
S	8,711	30	99	6.1	1,845.1	1,845.1	1,845.3	0.2
T	9,134	45	102	5.9	1,849.3	1,849.3	1,849.5	0.2
U	9,610	40	99	6.2	1,854.2	1,854.2	1,854.3	0.1

<sup>1</sup>Stream Distance in Feet Above Confluence With Apache Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>APACHE WASH SPLIT FLOW AREA - APACHE WASH TRIBUTARY 1</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash Tributary 2								
A	375 <sup>1</sup>	82	406	3.2	1,905.7	1,905.7	1,905.7	0.0
B	572 <sup>1</sup>	159	390	3.4	1,906.2	1,906.2	1,906.2	0.0
C	895 <sup>1</sup>	60	121	8.2	1,910.5	1,910.5	1,910.5	0.0
D	1,341 <sup>1</sup>	48	126	7.9	1,917.5	1,917.5	1,917.8	0.3
E	1,394 <sup>1</sup>	55	158	6.3	1,919.3	1,919.3	1,919.6	0.3
F	1,873 <sup>1</sup>	56	123	8.1	1,923.9	1,923.9	1,923.9	0.0
G	2,376 <sup>1</sup>	160	277	3.6	1,932.2	1,932.2	1,932.3	0.1
H	2,453 <sup>1</sup>	174	517	1.9	1,935.0	1,935.0	1,935.0	0.0
I	2,892 <sup>1</sup>	62	122	8.1	1,939.4	1,939.4	1,939.4	0.0
J	3,333 <sup>1</sup>	70	203	4.9	1,948.0	1,948.0	1,948.0	0.0
K	3,849 <sup>1</sup>	70	141	7.0	1,958.7	1,958.7	1,958.7	0.0
L	4,332 <sup>1</sup>	51	153	6.5	1,968.1	1,968.1	1,968.1	0.0
M	4,786 <sup>1</sup>	75	167	6.0	1,975.9	1,975.9	1,975.9	0.0
N	5,278 <sup>1</sup>	46	125	6.5	1,984.9	1,984.9	1,984.9	0.0
O	5,813 <sup>1</sup>	38	101	8.1	1,995.5	1,995.5	1,995.5	0.0
P	6,338 <sup>1</sup>	52	129	6.3	2,007.6	2,007.6	2,007.6	0.0
Apache Wash Tributary 3								
A	528 <sup>2</sup>	38	49	6.2	1,907.7	1,907.7	1,907.7	0.0
B	948 <sup>2</sup>	71	103	3.0	1,914.3	1,914.3	1,914.3	0.0
C	1,530 <sup>2</sup>	49	57	5.4	1,922.8	1,922.8	1,922.8	0.0
D	2,035 <sup>2</sup>	96	120	2.6	1,931.0	1,931.0	1,931.0	0.0
E	2,542 <sup>2</sup>	37	47	6.6	1,940.1	1,940.1	1,940.1	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Apache Wash

<sup>2</sup>Stream Distance in Feet Above Confluence With Apache Wash Tributary 2

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>APACHE WASH TRIBUTARY 2 - APACHE WASH TRIBUTARY 3</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash Tributary 4								
A	520	38	108	6.4	2,029.5	2,029.5	2,030.3	0.8
B	1,034	37	85	8.2	2,039.9	2,039.9	2,039.9	0.0
C	1,586	45	100	7.0	2,052.1	2,052.1	2,052.4	0.3
D	2,124	44	87	8.0	2,065.7	2,065.7	2,065.7	0.0
E	2,531	45	111	6.2	2,073.9	2,073.9	2,074.1	0.2
F	2,952	30	54	7.8	2,086.2	2,086.2	2,086.2	0.0
G	3,374	51	71	5.8	2,098.9	2,098.9	2,098.9	0.0
Apache Wash Tributary 5								
A	519	32	45	6.5	2,056.7	2,056.7	2,056.7	0.0
B	1,056	36	54	5.4	2,071.3	2,071.3	2,071.3	0.0
C	1,580	33	44	6.6	2,085.2	2,085.2	2,085.2	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Apache Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>APACHE WASH TRIBUTARY 4 - APACHE WASH TRIBUTARY 5</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash Tributary 6								
A	494	79	194	3.1	2,071.2	2,071.2	2,071.2	0.0
B	959	40	77	7.9	2,083.7	2,083.7	2,083.7	0.0
C	1,429	39	86	7.0	2,096.5	2,096.5	2,096.5	0.0
Apache Wash Tributary 7								
A	529	65	160	7.3	2,124.7	2,124.7	2,124.7	0.0
B	1,077	81	160	7.3	2,153.6	2,153.6	2,153.6	0.0
C	1,621	44	129	9.1	2,174.2	2,174.2	2,174.2	0.0
D	2,186	34	112	10.4	2,195.9	2,195.9	2,195.9	0.0
E	2,747	41	128	9.1	2,215.7	2,215.7	2,215.7	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Apache Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	APACHE WASH TRIBUTARY 6 - APACHE WASH TRIBUTARY 7

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash West Fork								
A	639	101	290	7.6	2,002.1	2,002.1	2,002.1	0.0
B	1,420	103	340	10.9	2,014.3	2,014.3	2,015.3	1.0
C	2,978	115	406	5.4	2,045.9	2,045.9	2,046.1	0.2
D	3,084	100	317	2.6	2,047.1	2,047.1	2,047.2	0.1
E	3,559	65	109	7.6	2,052.8	2,052.8	2,052.8	0.0
F	4,140	80	155	5.3	2,066.0	2,066.0	2,066.0	0.0
G	4,668	88	122	6.7	2,078.9	2,078.9	2,078.9	0.0
H	5,248	47	123	6.7	2,091.9	2,091.9	2,091.9	0.0
I	5,776	49	99	8.3	2,104.4	2,104.4	2,104.4	0.0
J	6,357	80	140	5.9	2,119.5	2,119.5	2,119.5	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Apache Wash

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**APACHE WASH WEST FORK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Apache Wash West Fork Tributary 1								
A	106	98	238	2.9	2,022.9	2,022.9	2,023.5	0.6
B	633	75	117	5.9	2,034.6	2,034.6	2,034.6	0.0
C	1,215	81	131	5.3	2,047.4	2,047.4	2,047.4	0.0
D	1,742	44	90	7.7	2,059.1	2,059.1	2,059.1	0.0
E	2,272	28	74	9.3	2,074.6	2,074.6	2,074.6	0.0
F	2,797	33	79	8.7	2,089.9	2,089.9	2,089.9	0.0
G	3,378	35	79	8.7	2,108.0	2,108.0	2,108.0	0.0
H	3,907	71	114	6.0	2,127.0	2,127.0	2,127.0	0.0
I	4,434	31	76	9.0	2,148.3	2,148.3	2,148.3	0.0
Apache Wash West Fork Tributary 2								
A	155	60	196	2.4	2,027.5	2,027.5	2,027.9	0.4
B	525	53	71	6.8	2,034.5	2,034.5	2,034.5	0.0
C	950	82	115	4.1	2,041.9	2,041.9	2,041.9	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Apache Wash West Fork

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**APACHE WASH WEST FORK TRIBUTARY 1 -  
APACHE WASH WEST FORK TRIBUTARY 2**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Arrow Wash								
A	260	27	58	8.4	1,641.1	1,641.1	1,641.1	0.0
B	658	27	58	8.4	1,659.9	1,659.9	1,659.9	0.0
C	2,381	40	116	4.5	1,694.9	1,694.9	1,694.9	0.0
D	3,230	119	588	0.9	1,728.9	1,728.9	1,728.9	0.0
E	4,048	87	118	3.1	1,747.8	1,747.8	1,747.8	0.0
F	5,248	31	52	7.1	1,790.1	1,790.1	1,790.1	0.0
G	5,653	46	103	2.6	1,809.6	1,809.6	1,809.6	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Ashbrook Wash

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ARROW WASH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Ashbrook Wash								
A	6,336	126	369	8.6	1,512.5	1,512.5	1,512.5	0.0
B	8,329	192	656	4.8	1,547.5	1,547.5	1,547.5	0.0
C	10,041	207	782	2.7	1,572.2	1,572.2	1,572.2	0.0
D	11,046	122	508	2.7	1,588.8	1,588.8	1,588.8	0.0
E	12,582	96	315	4.4	1,608.2	1,608.2	1,608.2	0.0
F	14,812	79	157	7.5	1,641.4	1,641.4	1,641.4	0.0
G	16,289	83	127	7.6	1,671.4	1,671.4	1,671.4	0.0
H	17,748	89	155	6.2	1,695.1	1,695.1	1,695.1	0.0
I	19,932	33	44	6.8	1,747.2	1,747.2	1,747.2	0.0
J	20,910	93	67	4.5	1,774.6	1,774.6	1,774.6	0.0
K	23,429	217	1,122	1.8	1,834.3	1,834.3	1,834.3	0.0
L	26,122	103	232	8.3	1,893.7	1,893.7	1,893.7	0.0
M	27,297	140	1,051	1.8	1,925.1	1,925.1	1,925.1	0.0
N	29,944	82	219	8.0	1,985.0	1,985.0	1,985.0	0.0

<sup>1</sup>Stream Distance in Feet Above Mouth

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ASHBROOK WASH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Atchison, Topeka and Santa Fe Railroad Channel								
A	150	76	332	1.7	1,125.6	1,125.6	1,125.6	0.0
B	970	194	579	1.0	1,125.6	1,125.6	1,125.6	0.0
C	1,570	201	506	1.1	1,125.6	1,125.6	1,125.6	0.0
D	2,035	69	213	2.5	1,127.3	1,127.3	1,127.3	0.0
E	2,768	43	84	6.3	1,127.9	1,127.9	1,127.9	0.0
F	3,365	37	95	5.1	1,131.3	1,131.3	1,131.3	0.0
G	3,905	41	104	4.7	1,133.2	1,133.2	1,133.2	0.0
H	4,028	44	183	2.6	1,133.8	1,133.8	1,133.8	0.0
I	4,672	41	113	3.8	1,134.6	1,134.6	1,134.6	0.0
J	5,345	33	76	5.6	1,136.0	1,136.0	1,136.0	0.0
K	5,995	41	105	4.1	1,138.1	1,138.1	1,138.1	0.0
L	6,550	72	155	2.4	1,139.0	1,139.0	1,139.0	0.0
M	7,280	24	43	7.5	1,144.3	1,144.3	1,144.5	0.2
N	8,460	136	100	3.2	1,155.1	1,155.1	1,156.1	1.0
O	8,905	210	153	3.8	1,159.5	1,159.5	1,160.3	0.8

<sup>1</sup>Stream Distance in Feet Above Grand Avenue

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**ATCHISON, TOPEKA & SANTA FE RAILROAD CHANNEL**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Balboa Wash								
A	619	115	336	3.4	1,569.2	1,569.2	1,569.2	0.0
B	3,142	95	211	4.9	1,611.6	1,611.6	1,611.6	0.0
C	4,704	90	125	5.8	1,640.7	1,640.7	1,640.7	0.0
D	6,389	362	146	4.5	1,673.0	1,673.0	1,673.0	0.0
E	8,613	141	137	4.8	1,720.0	1,720.0	1,720.0	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Ashbrook Wash

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BALBOA WASH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Beardsley Canal Wash								
A	1,200	235	838	9.0	1,202.7	1,202.7	1,203.2	0.5
B	2,280	220	1,139	6.7	1,208.6	1,208.6	1,208.6	0.0
C	3,580	238	1,470	5.2	1,210.6	1,210.6	1,210.6	0.0
D	5,580	230	1,575	4.5	1,218.1	1,218.1	1,218.1	0.0
E	7,694	150	728	7.8	1,248.3	1,248.3	1,249.1	0.8
F	9,689	31	106	10.5	1,259.3	1,259.3	1,259.3	0.0
G	11,357	82	389	3.1	1,275.7	1,275.7	1,275.7	0.0
H	13,375	120	205	4.9	1,287.7	1,287.7	1,287.7	0.0
I	15,244	64	97	7.3	1,296.3	1,296.3	1,296.3	0.0
J	17,324	54	69	4.3	1,310.4	1,310.4	1,310.4	0.0
K	19,315	37	69	2.1	1,323.5	1,323.5	1,323.5	0.0

<sup>1</sup>Stream Distance in Feet Above White Tanks Structure #3

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BEARDSLEY CANAL WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Bedrock Wash								
A	1,283	335	343	5.1	1,200.6	1,200.6	1,200.6	0.0
B	2,086	277	610	2.9	1,205.8	1,205.8	1,205.8	0.0
C	3,184	267	536	3.2	1,216.5	1,216.5	1,216.5	0.0
D	4,710	345	498	3.9	1,227.1	1,227.1	1,227.1	0.0
E	5,935	280	447	4.3	1,240.1	1,240.1	1,240.1	0.0
F	8,902	44	83	6.3	1,292.2	1,292.2	1,292.2	0.0
G	10,887	27	61	8.5	1,354.0	1,354.0	1,354.0	0.0
H	11,869	37	67	7.7	1,403.5	1,403.5	1,403.5	0.0
I	12,830	46	71	7.3	1,467.7	1,467.7	1,467.7	0.0

<sup>1</sup>Stream Distance in Feet Above White Tanks Structure #3

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BEDROCK WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Bedrock Wash North Fork								
A	1,214	248	383	4.1	1,255.9	1,255.9	1,255.9	0.0
B	2,112	115	230	6.8	1,272.5	1,272.5	1,272.5	0.0
C	3,115	82	196	7.9	1,288.6	1,288.6	1,288.6	0.0
D	5,613	55	165	8.3	1,333.9	1,333.9	1,333.9	0.0
E	7,661	55	144	9.4	1,391.9	1,391.9	1,391.9	0.0
F	9,166	49	128	9.1	1,443.8	1,443.8	1,443.8	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Bedrock Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>BEDROCK WASH NORTH FORK</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Bender Wash								
A	195	56	374	8.3	722.9	722.9	723.9	1.0
B	2,191	78	355	8.7	731.4	731.4	731.5	0.1
C	5,338	300	949	5.3	750.9	750.9	751.6	0.7
D	6,188	530	774	6.5	755.8	755.8	756.8	1.0
E	7,286	460	908	5.5	761.6	761.6	762.5	0.9
F	9,177	520	1,002	5.0	772.8	772.8	773.8	1.0
G	10,048	110	331	9.7	778.9	778.9	778.9	0.0
H	10,512	1,336 <sup>2</sup>	1,726	3.0	780.5	780.5	780.6	0.1
I	11,421	1,979 <sup>2</sup>	1,893	2.7	786.6	786.6	786.6	0.0
J	12,181	852 <sup>2</sup>	1,291	4.3	791.8	791.8	791.9	0.1
K	12,799	569	1,082	3.7	795.1	795.1	795.5	0.4
L	13,369	425	1,032	3.9	797.6	797.6	798.5	0.9
M	13,849	479	1,085	3.7	799.8	799.8	800.5	0.7
N	14,272	756	816	4.9	802.8	802.8	803.4	0.6
O	14,874	976	1,584	2.5	807.2	807.2	808.0	0.8
P	15,344	806	1,115	3.6	810.4	810.4	810.6	0.2
Q	15,856	614 <sup>2</sup>	1,286	3.1	813.6	813.6	813.6	0.0
R	16,912	977 <sup>2</sup>	1,067	3.7	819.3	819.3	819.3	0.0
S	17,308	1,107	1,378	2.9	823.1	823.1	823.2	0.1
T	17,894	605	848	4.7	827.8	827.8	828.3	0.5
U	18,343	483	1,090	3.6	831.8	831.8	832.4	0.6
V	18,834	405	737	5.4	835.2	835.2	835.8	0.6
W	19,272	517	1,360	2.9	838.6	838.6	839.1	0.5

<sup>1</sup>Stream Distance in Feet Above Confluence With Sand Tank Wash    <sup>2</sup> Floodway Widths Do Not Include Widths of High Ground Area

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BENDER WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Bender Wash North Tributary								
A	3,353	270	665	2.5	799.1	799.1	799.2	0.1
B	3,860	108	210	7.9	802.5	802.5	802.6	0.1
C	4,367	226	715	2.3	805.9	805.9	806.3	0.4
D	4,800	450	1,322	1.3	806.5	806.5	806.7	0.2
E	4,873	477	1,022	1.6	806.5	806.5	806.8	0.3
F	5,201	402	1,339	1.3	806.6	806.6	806.9	0.3
G	5,269	340	234	7.2	807.1	807.1	808.1	1.0
H	5,745	143 <sup>2</sup>	420	4.0	813.7	813.7	814.3	0.6
I	6,199	365	519	3.2	818.0	818.0	818.0	0.0
J	6,938	210	617	2.7	822.0	822.0	822.0	0.0
K	7,160	333	1,418	1.2	822.2	822.2	822.3	0.1
L	7,645	255	1,320	1.3	822.4	822.4	822.4	0.0
M	8,068	155	643	2.6	827.6	827.6	827.7	0.1
N	8,554	465	1,599	1.0	828.0	828.0	828.1	0.1
O	9,113	464	337	5.0	830.3	830.3	830.3	0.0
P	9,588	448	522	3.2	838.5	838.5	838.7	0.2

<sup>1</sup>Stream Distance in Feet Above Confluence With Bender Wash    <sup>2</sup> Floodway Widths Do Not Include Widths of High Ground Area

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**BENDER WASH NORTH TRIBUTARY**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Black Wash								
A	450	413	2,346	0.8	2,006.8	2,006.8	2,006.8	0.0
B	950	390	753	2.6	2,007.1	2,007.1	2,007.1	0.0
C	1,409	407	597	3.2	2,013.5	2,013.5	2,013.5	0.0
D	1,909	433	386	5.0	2,017.4	2,017.4	2,017.4	0.0
E	2,409	167	358	5.4	2,024.5	2,024.5	2,024.6	0.1
F	3,409	20	132	14.6	2,037.1	2,037.1	2,037.1	0.0
G	3,859	20	111	13.4	2,044.0	2,044.0	2,044.0	0.0
H	4,199	85	391	4.3	2,050.2	2,050.2	2,050.2	0.0
I	4,679	96	235	7.1	2,053.9	2,053.9	2,053.9	0.0
J	5,369	42	172	9.7	2,067.6	2,067.6	2,067.6	0.0
K	5,869	57	205	8.2	2,077.3	2,077.3	2,077.3	0.0
L	6,259	158	324	5.2	2,083.3	2,083.3	2,083.3	0.0
M	6,844	126	268	6.3	2,094.5	2,094.5	2,094.5	0.0
N	7,274	99	231	7.3	2,101.8	2,101.8	2,101.8	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With New River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BLACK WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Blue Tank Wash								
A	500	584	647	6.3	2,087.0	2,087.0	2,087.0	0.0
B	1,433	419	682	6.0	2,111.3	2,111.3	2,111.3	0.0
C	2,478	287	608	6.7	2,139.0	2,139.0	2,139.0	0.0
D	3,474	289	540	7.5	2,158.8	2,158.8	2,158.8	0.0

<sup>1</sup>Stream Distance in Feet Above Jack Burden Road

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BLUE TANK WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Buchanan Wash								
A	935	190	862	2.7	1,462.3	1,452.4 <sup>2</sup>	1,452.4 <sup>2</sup>	0.0
B	1,404	516	666	3.5	1,462.3	1,453.1 <sup>2</sup>	1,453.1 <sup>2</sup>	0.0
C	2,196	630	1,892	3.5	1,462.3	1,456.5 <sup>2</sup>	1,456.7 <sup>2</sup>	0.2
D	2,645	300	647	3.7	1,462.3	1,459.5 <sup>2</sup>	1,459.4 <sup>2</sup>	0.3
E	3,733	124	492	4.7	1,464.9	1,464.9	1,465.6	0.7
F	4,678	156	480	4.8	1,468.1	1,468.1	1,468.5	0.4
G	5,333	211	531	4.3	1,473.3	1,473.3	1,473.3	0.0
H	5,834	168	440	5.2	1,476.0	1,476.0	1,476.0	0.0
I	6,362	156	501	3.2	1,479.2	1,479.2	1,479.2	0.0
J	6,832	183	475	3.4	1,481.2	1,481.2	1,481.2	0.0
K	7,482	171	385	4.2	1,484.4	1,484.4	1,484.7	0.3
L	8,316	100	370	4.3	1,489.4	1,489.4	1,489.7	0.3
M	9,324	115	337	4.8	1,493.9	1,493.9	1,494.4	0.5
N	10,217	76	195	6.7	1,498.1	1,498.1	1,498.8	0.7

<sup>1</sup>Stream Distance in Feet Above Confluence With Skunk Creek

<sup>2</sup>Elevation Computed Without Consideration of Backwater From Skunk Creek

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BUCHANAN WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Bullard Wash								
A	5,200	415	1,378	2.3	950.0	950.0	950.8	0.8
B	7,213	287	812	3.9	957.7	957.7	958.5	0.8
C	9,433	323	1,090	2.5	964.7	964.7	965.7	1.0
D	11,283	481	857	3.2	970.7	970.7	971.7	1.0
E	13,373	206	754	3.6	976.5	976.5	977.5	1.0
F	15,423	260	637	4.3	982.1	982.1	982.6	0.5
G	17,612	238	461	4.9	985.3	985.3	985.8	0.5
H	19,754	107	733	3.1	990.0	990.0	991.0	1.0
I	22,043	191	640	4.0	993.4	993.4	993.5	0.1
J	23,148	127	441	5.8	997.3	997.3	997.3	0.0
K	24,438	149	420	6.1	1,001.9	1,001.9	1,001.9	0.0
L	26,906	148	768	5.3	1,016.1	1,016.1	1,016.1	0.0
M	27,478	161	719	5.7	1,016.9	1,016.9	1,016.9	0.0
N	28,358	173	680	6.0	1,017.7	1,017.7	1,017.7	0.0
O	28,837	161	771	5.3	1,019.1	1,019.1	1,019.1	0.0
P	29,857	234	910	4.5	1,020.5	1,020.5	1,020.5	0.0
Q	30,862	267	1,031	4.0	1,021.6	1,021.6	1,021.6	0.0
R	31,677	135	475	5.6	1,022.3	1,022.3	1,022.3	0.0
S	32,587	120	508	5.8	1,027.8	1,027.8	1,027.8	0.0
T	33,687	140	539	6.0	1,031.1	1,031.1	1,031.1	0.0
U	34,687	140	539	6.0	1,034.0	1,034.0	1,034.0	0.0
V	35,718	140	492	6.5	1,037.5	1,037.5	1,037.5	0.0
W	36,686	140	492	6.5	1,041.6	1,041.6	1,041.6	0.0
X	37,467	86	343	8.2	1,045.1	1,045.1	1,045.1	0.0
Y	38,047	520	498	3.9	1,051.4	1,051.4	1,051.9	0.5
Z	39,087	490	684	2.8	1,056.2	1,056.2	1,056.8	0.6
AA	40,287	450	602	3.1	1,060.2	1,060.2	1,061.0	0.8
AB	41,267	750	1,127	1.7	1,061.0	1,061.0	1,061.9	0.9
AC	42,207	168	333	5.6	1,062.3	1,062.3	1,063.1	0.8
AD	43,407	323	802	2.3	1,065.6	1,065.6	1,066.6	1.0
AE-AN <sup>2</sup>								

<sup>1</sup>Stream Distance in Feet Above Southern Pacific Railroad    <sup>2</sup>Floodway Not Computed

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	BULLARD WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Bullard Wash West Tributary A	2,600 <sup>1</sup>	85	224	3.4	1,064.7	1,064.7	1,064.7	0.0
Bulldozer Wash A	718 <sup>2</sup>	349	3,431	0.4	1,101.0	1,101.0	1,101.0	0.0
B	1,880 <sup>2</sup>	135	485	2.6	1,119.4	1,119.4	1,119.4	0.0
C	3,411 <sup>2</sup>	102	208	6.0	1,127.0	1,127.0	1,127.0	0.0
D	5,032 <sup>2</sup>	69	175	5.4	1,138.9	1,138.9	1,138.9	0.0
E	5,929 <sup>2</sup>	73	184	5.1	1,146.6	1,146.6	1,146.6	0.0
F	7,249 <sup>2</sup>	105	104	5.0	1,157.0	1,157.0	1,157.0	0.0
G	9,562 <sup>2</sup>	41	44	6.0	1,192.1	1,192.1	1,192.1	0.0
H	11,722 <sup>2</sup>	37	41	6.3	1,308.3	1,308.3	1,308.3	0.0
I	13,813 <sup>2</sup>	28	38	6.8	1,679.8	1,679.8	1,679.8	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Bullard Wash    <sup>2</sup>Stream Distance in Feet Above Confluence With Tuthill Dike Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>BULLARD WASH WEST TRIBUTARY - BULLDOZER WASH</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Calamity Wash								
A	1,383	83	304	10.2	2,043.5	2,043.5	2,043.6	0.1
B	2,908	78	306	10.1	2,081.7	2,081.7	2,081.8	0.1
C	3,811	96	334	9.3	2,105.1	2,105.1	2,105.1	0.0
D	5,812	98	333	9.3	2,155.3	2,155.3	2,155.3	0.0
E	7,308	148	392	7.9	2,191.8	2,191.8	2,191.8	0.0
F	8,747	195	416	7.4	2,224.0	2,224.0	2,224.0	0.0
G	10,243	27	211	14.7	2,265.2	2,265.2	2,265.2	0.0
H	11,181	59	283	10.9	2,314.7	2,314.7	2,314.7	0.0
I	11,681	64	308	10.1	2,333.9	2,333.9	2,333.9	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Hassayampa River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CALAMITY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Caliente Wash								
A	5,825	90	255	2.6	1,534.5	1,534.5	1,534.5	0.0
B	7,796	61	107	6.2	1,568.5	1,568.5	1,568.5	0.0
C	9,290	48	63	5.7	1,597.7	1,597.7	1,597.7	0.0
D	10,000	35	51	7	1,612.9	1,612.9	1,612.9	0.0
E	11,231	37	44	6.3	1,639.3	1,639.3	1,639.3	0.0
F	12,152	334	1,232	0.3	1,661.5	1,661.5	1,661.5	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Verde River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CALIENTE WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary A								
A	1,484	381	313	4.6	2,249.0	2,249.0	2,249.0	0.0
B	1,745	297	238	6.0	2,263.9	2,263.9	2,263.9	0.0
C	3,580	269	263	4.3	2,343.2	2,343.2	2,343.2	0.0
D	4,540	199	199	5.4	2,381.5	2,381.5	2,381.5	0.0
E	5,737	179	193	5.6	2,425.1	2,425.1	2,425.1	0.0
F	7,281	230	189	5.5	2,475.2	2,475.2	2,475.2	0.0
G	8,411	315	240	4.3	2,508.4	2,508.4	2,508.4	0.0
H	8,700	157	153	5.0	2,519.3	2,519.3	2,519.3	0.0
I	9,623	181	171	4.5	2,548.7	2,548.7	2,548.7	0.0
J	11,982	107	110	5.3	2,611.7	2,611.7	2,611.7	0.0
K	12,992	125	129	4.5	2,635.7	2,635.7	2,635.7	0.0
L	13,366	221	144	4.0	2,645.1	2,645.1	2,645.1	0.0
M	13,639	208	129	3.0	2,650.9	2,650.9	2,650.9	0.0
N	16,155	185	117	3.3	2,717.0	2,717.0	2,717.0	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY A</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary A1								
A	495	214	113	3.2	2,324.5	2,324.5	2,324.5	0.0
B	980	159	93	3.9	2,345.7	2,345.7	2,345.7	0.0
C	2,476	159	86	3.2	2,404.3	2,404.3	2,404.3	0.0
D	3,673	83	44	4.1	2,444.7	2,444.7	2,444.7	0.0
E	4,297	26	32	5.7	2,463.7	2,463.7	2,463.7	0.0
F	5,046	25	30	6.2	2,483.6	2,483.6	2,483.6	0.0
G	5,271	27	31	5.9	2,491.5	2,491.5	2,491.5	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary A

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY A1</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary A2								
A	320	138	79	3.6	2,516.8	2,516.8	2,516.8	0.0
B	752	140	88	3.3	2,528.2	2,528.2	2,528.2	0.0
C	1,536	54	46	4.6	2,549.0	2,549.0	2,549.0	0.0
D	2,460	42	30	4.7	2,571.9	2,571.9	2,571.9	0.0
E	3,550	38	30	4.8	2,599.1	2,599.1	2,599.1	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary A

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY A2</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary B								
A	1,991	442	375	4.5	2,262.7	2,262.7	2,262.7	0.0
B	3,634	218	250	6.6	2,332.2	2,332.2	2,332.2	0.0
C	5,336	271	172	5.4	2,395.9	2,395.9	2,395.9	0.0
D	6,297	203	201	4.7	2,432.5	2,432.5	2,432.5	0.0
E	7,017	182	178	4.7	2,457.5	2,457.5	2,457.5	0.0
F	7,870	238	225	3.7	2,487.0	2,487.0	2,487.0	0.0
G	9,764	410	255	2.9	2,552.4	2,552.4	2,552.4	0.0
H	11,577	267	147	3.5	2,612.7	2,612.7	2,612.7	0.0
I	13,046	118	109	4.7	2,655.3	2,655.3	2,655.3	0.0
J	13,612	75	70	5.5	2,671.1	2,671.1	2,671.1	0.0
K	13,939	90	73	5.3	2,681.4	2,681.4	2,681.4	0.0
L	14,699	112	105	3.7	2,702.4	2,702.4	2,702.4	0.0
M	15,310	121	94	4.1	2,719.5	2,719.5	2,719.5	0.0
N	16,045	93	83	4.7	2,739.3	2,739.3	2,739.3	0.0
O	16,768	79	58	4.4	2,758.9	2,758.9	2,758.9	0.0
P	17,772	136	73	3.5	2,786.4	2,786.4	2,786.4	0.0
Q	18,961	225	82	3.2	2,815.8	2,815.8	2,815.8	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CAMP CREEK TRIBUTARY B

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary B1								
A	569	292	211	3.4	2,366.2	2,366.2	2,366.2	0.0
B	994	157	134	5.3	2,381.3	2,381.3	2,381.3	0.0
C	2,524	239	187	3.5	2,436.4	2,436.4	2,436.4	0.0
D	4,025	152	118	5.0	2,482.8	2,482.8	2,482.8	0.0
E	5,349	109	86	5.1	2,516.9	2,516.9	2,516.9	0.0
F	5,595	23	52	8.6	2,524.1	2,524.1	2,524.1	0.0
G	6,515	37	63	7.0	2,554.2	2,554.2	2,554.2	0.0
H	7,294	31	43	6.9	2,585.5	2,585.5	2,585.5	0.0
I	7,418	27	40	7.3	2,591.4	2,591.4	2,591.4	0.0
J	7,636	26	41	7.2	2,598.4	2,598.4	2,598.4	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary B

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY B1</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary B2								
A	638	227	127	2.6	2,612.0	2,612.0	2,612.0	0.0
B	942	139	90	3.6	2,621.6	2,621.6	2,621.6	0.0
C	1,499	257	77	3.2	2,640.5	2,640.5	2,640.5	0.0
D	2,586	44	43	5.7	2,670.7	2,670.7	2,670.7	0.0
E	2,958	35	40	6.1	2,681.2	2,681.2	2,681.2	0.0
F	3,996	52	35	4.7	2,708.8	2,708.8	2,708.8	0.0
G	5,124	54	35	4.7	2,738.4	2,738.4	2,738.4	0.0
H	5,470	38	36	4.6	2,745.9	2,745.9	2,745.9	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary B

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY B2</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary C								
A	1,600	678	460	4.6	2,442.9	2,442.9	2,442.9	0.0
B	2,470	584	567	3.7	2,472.8	2,472.8	2,472.8	0.0
C	4,929	69	186	8.0	2,563.4	2,563.4	2,563.4	0.0
D	5,203	36	140	10.7	2,575.7	2,575.7	2,575.7	0.0
E	5,288	36	143	10.5	2,583.8	2,583.8	2,583.8	0.0
F	5,407	29	135	11.1	2,607.3	2,607.3	2,607.3	0.0
G	5,790	41	144	10.4	2,632.5	2,632.5	2,632.5	0.0
H	6,090	68	168	8.7	2,645.2	2,645.2	2,645.2	0.0
I	7,015	130	207	7.1	2,675.8	2,675.8	2,675.8	0.0
J	7,677	238	287	5.1	2,697.1	2,697.1	2,697.1	0.0
K	8,648	151	236	6.1	2,726.5	2,726.5	2,726.5	0.0
L	9,864	119	180	6.0	2,765.7	2,765.7	2,765.7	0.0
M	10,681	261	247	4.4	2,791.7	2,791.7	2,791.7	0.0
N	10,907	318	315	3.4	2,800.6	2,800.6	2,800.6	0.0
O	11,904	189	212	4.3	2,836.6	2,836.6	2,836.6	0.0
P	13,263	84	72	5.0	2,881.2	2,881.2	2,881.2	0.0
Q	13,487	92	71	5.0	2,887.9	2,887.9	2,887.9	0.0
R	14,665	137	74	3.7	2,928.8	2,928.8	2,928.8	0.0
S	15,614	23	29	6.3	2,959.6	2,959.6	2,959.6	0.0
T	15,758	30	31	5.8	2,963.2	2,963.2	2,963.2	0.0
U	16,296	50	37	4.9	2,978.8	2,978.8	2,978.8	0.0
V	16,858	68	42	4.2	2,995.6	2,995.6	2,995.6	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CAMP CREEK TRIBUTARY C

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary C1								
A	546	527	149	3.8	2,558.2	2,558.2	2,558.2	0.0
B	841	190	151	3.7	2,574.5	2,574.5	2,574.5	0.0
C	953	141	109	5.2	2,581.2	2,581.2	2,581.2	0.0
D	1,107	26	63	9.0	2,592.3	2,592.3	2,592.3	0.0
E	1,179	36	86	6.6	2,595.7	2,595.7	2,595.7	0.0
F	1,234	31	75	7.5	2,609.9	2,609.9	2,609.9	0.0
G	1,398	27	64	8.8	2,638.7	2,638.7	2,638.7	0.0
H	1,450	23	60	9.4	2,642.5	2,642.5	2,642.5	0.0
I	1,656	40	86	6.5	2,652.2	2,652.2	2,652.2	0.0
J	1,908	55	89	6.3	2,666.0	2,666.0	2,666.0	0.0
K	2,521	76	94	5.7	2,693.2	2,693.2	2,693.2	0.0
L	2,749	86	107	5.0	2,699.4	2,699.4	2,699.4	0.0
M	4,371	132	121	4.5	2,763.2	2,763.2	2,763.2	0.0
N	4,618	194	146	3.7	2,771.7	2,771.7	2,771.7	0.0
O	4,724	148	114	4.7	2,776.7	2,776.7	2,776.7	0.0
P	5,037	96	105	5.1	2,788.6	2,788.6	2,788.6	0.0
Q	5,189	188	177	3.1	2,793.3	2,793.3	2,793.3	0.0
R	5,721	199	162	2.5	2,812.8	2,812.8	2,812.8	0.0
S	5,995	117	96	4.2	2,821.6	2,821.6	2,821.6	0.0
T	6,489	149	131	3.1	2,841.0	2,841.0	2,841.0	0.0
U	6,663	117	112	3.6	2,846.4	2,846.4	2,846.4	0.0
V	6,979	165	97	2.8	2,856.8	2,856.8	2,856.8	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary C

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CAMP CREEK TRIBUTARY C1

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary C2								
A	404	76	81	5.5	2,767.4	2,767.4	2,767.4	0.0
B	986	212	103	4.3	2,786.6	2,786.6	2,786.6	0.0
C	1,385	103	105	4.3	2,800.8	2,800.8	2,800.8	0.0
D	2,640	188	87	3.9	2,842.7	2,842.7	2,842.7	0.0
E	3,372	260	96	3.5	2,868.5	2,868.5	2,868.5	0.0
F	5,016	89	52	4.3	2,924.6	2,924.6	2,924.6	0.0
G	5,334	45	41	5.4	2,937.0	2,937.0	2,937.0	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary C

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY C2</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary C3								
A	703	257	237	3.8	2,881.2	2,881.2	2,881.2	0.0
B	1,043	277	224	4.0	2,895.0	2,895.0	2,895.0	0.0
C	2,828	69	107	6.8	2,967.7	2,967.7	2,967.7	0.0
D	2,920	36	85	8.5	2,972.9	2,972.9	2,972.9	0.0
E	3,082	115	135	5.4	2,977.4	2,977.4	2,977.4	0.0
F	3,672	278	230	3.2	2,996.6	2,996.6	2,996.6	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary C

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY C3</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Camp Creek Tributary D								
A	573	139	90	4.6	2,472.5	2,472.5	2,472.5	0.0
B	773	209	86	3.6	2,485.0	2,485.0	2,485.0	0.0
C	1,810	95	71	4.4	2,541.9	2,541.9	2,541.9	0.0
D	2,364	84	69	4.5	2,574.5	2,574.5	2,574.5	0.0
E	2,922	50	42	4.9	2,605.0	2,605.0	2,605.0	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Camp Creek Tributary C

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAMP CREEK TRIBUTARY D</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Casandro Wash								
A	1,727 <sup>1</sup>	29	18	4.8	2,075.5	2,075.5	2,075.5	0.0
B	2,677 <sup>1</sup>	26	39	7.1	2,089.9	2,089.9	2,089.9	0.0
C	3,965 <sup>1</sup>	41	41	4.6	2,108.3	2,108.3	2,108.3	0.0
D	5,079 <sup>1</sup>	178	19	1.6	2,128.4	2,128.4	2,128.4	0.0
E	7,682 <sup>1</sup>	124	183	6.9	2,184.0	2,184.0	2,184.0	0.0
F	10,032 <sup>1</sup>	196	254	3.5	2,218.0	2,218.0	2,218.0	0.0
G	12,989 <sup>1</sup>	164	271	3.0	2,255.1	2,255.1	2,255.1	0.0
H	13,517 <sup>1</sup>	169	378	2.2	2,260.6	2,260.6	2,260.6	0.0
Casandro Wash South Branch								
A	1,980 <sup>2</sup>	157	122	4.5	2,247.7	2,247.7	2,247.7	0.0
B	2,983 <sup>2</sup>	105	128	3.9	2,259.4	2,259.4	2,259.4	0.0
C	3,854 <sup>2</sup>	69	112	3.6	2,276.2	2,276.2	2,276.3	0.1
D	4,715 <sup>2</sup>	55	211	1.90	2,290.4	2,290.4	2,291.3	0.9

<sup>1</sup>Stream Distance in Feet Above Confluence With Sols Wash

<sup>2</sup>Stream Distance in Feet Above Confluence With Casandro Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CASANDRO WASH - CASANDRO WASH SOUTH BRANCH</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Caterpillar Tank Wash								
A	0	117	191	6.9	1,264.1	1,264.1	1,264.1	0.0
B	496	59	248	5.3	1,267.3	1,267.3	1,267.3	0.0
C	998	102	174	7.5	1,273.0	1,273.0	1,273.0	0.0
D	1,500	85	219	6.0	1,279.1	1,279.1	1,279.1	0.0
E	1,996	75	171	7.7	1,284.5	1,284.5	1,284.6	0.1
F	2,497	85	207	6.4	1,291.8	1,291.8	1,291.9	0.1
G	2,999	108	193	6.8	1,299.0	1,299.0	1,299.2	0.2
H	3,495	73	191	6.9	1,307.1	1,307.1	1,307.1	0.0
I	3,997	83	239	5.5	1,312.2	1,312.2	1,312.2	0.0
J	4,345	130	188	7.0	1,317.7	1,317.7	1,317.7	0.0
K	4,398	209	335	4.1	1,319.1	1,319.1	1,319.1	0.0
L	5,000	108	192	7.1	1,326.7	1,326.7	1,326.7	0.0
M	5,496	56	185	7.4	1,332.1	1,332.1	1,332.5	0.4
N	5,998	51	153	9.0	1,337.7	1,337.7	1,337.8	0.1
O	6,500	95	199	6.9	1,344.9	1,344.9	1,344.9	0.0
P	6,996	77	215	6.4	1,350.2	1,350.2	1,350.2	0.0
Q	7,498	81	223	6.2	1,354.0	1,354.0	1,354.1	0.1
R	7,999	71	185	7.4	1,358.2	1,358.2	1,358.4	0.2
S	8,496	119	272	5.0	1,362.7	1,362.7	1,363.0	0.3
T	8,997	73	224	6.1	1,366.7	1,366.7	1,366.7	0.0
U	9,499	38	137	10.1	1,371.9	1,371.9	1,371.9	0.0
V	9,995	77	232	5.9	1,377.7	1,377.7	1,378.4	0.7
W	10,497	68	203	6.4	1,381.6	1,381.6	1,382.1	0.5
X	10,998	126	349	3.7	1,384.9	1,384.9	1,385.1	0.2
Y	11,500	116	203	6.4	1,388.0	1,388.0	1,388.1	0.1
Z	11,996	75	217	6.0	1,393.6	1,393.6	1,393.9	0.3

<sup>1</sup>Stream Distance in Feet Above Confluence With Agua Fria River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	MARICOPA COUNTY, AZ AND INCORPORATED AREAS	CATERPILLAR TANK WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Caterpillar Tank Wash (Cont'd)								
AA	12,498	336	493	2.6	1,396.6	1,396.6	1,396.8	0.2
AB	12,999	67	159	8.2	1,400.0	1,400.0	1,400.0	0.0
AC	13,496	100	290	4.5	1,403.5	1,403.5	1,404.1	0.6
AD	13,997	88	170	7.6	1,407.0	1,407.0	1,407.3	0.3
AE	14,499	76	239	5.4	1,411.7	1,411.7	1,411.7	0.0
AF	14,995	65	148	8.7	1,415.7	1,415.7	1,415.8	0.1
AG	15,497	60	245	5.3	1,419.3	1,419.3	1,420.0	0.7
AH	15,998	65	201	6.4	1,422.0	1,422.0	1,422.2	0.2
AI	16,500	69	228	5.7	1,425.1	1,425.1	1,425.3	0.2
AJ	16,996	127	298	4.4	1,427.9	1,427.9	1,427.9	0.0
AK	17,498	99	175	7.4	1,431.7	1,431.7	1,431.7	0.0
AL	18,000	144	340	3.8	1,436.2	1,436.2	1,436.6	0.4
AM	18,496	67	171	7.6	1,439.6	1,439.6	1,439.9	0.3
AN	18,997	118	272	4.8	1,445.9	1,445.9	1,445.9	0.0
AO	19,499	42	175	7.4	1,448.6	1,448.6	1,449.0	0.4
AP	19,700	76	182	5.3	1,450.1	1,450.1	1,451.1	1.0
AQ	19,995	106	241	4.0	1,452.8	1,452.8	1,453.2	0.4
AR	20,497	63	144	6.7	1,456.9	1,456.9	1,456.9	0.0
AS	20,999	77	200	4.9	1,461.2	1,461.2	1,461.6	0.4
AT	21,500	46	114	8.5	1,465.0	1,465.0	1,465.3	0.3
AU	21,996	126	206	4.7	1,469.0	1,469.0	1,469.5	0.5
AV	22,498	60	155	6.3	1,471.2	1,471.2	1,471.9	0.7
AW	23,000	49	112	8.6	1,476.5	1,476.5	1,476.5	0.0
AX	23,496	50	134	7.3	1,481.7	1,481.7	1,482.0	0.3
AY	23,998	40	126	7.7	1,486.0	1,486.0	1,486.0	0.0
AZ	24,499	34	100	9.7	1,490.7	1,490.7	1,490.7	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Agua Fria River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CATERPILLAR TANK WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Caterpillar Tank Wash (Cont'd)								
BA	24,996	55	154	6.3	1,495.5	1,495.5	1,495.7	0.2
BB	25,698	202	221	4.4	1,501.4	1,501.4	1,501.4	0.0
BC	26,300	59	118	8.2	1,510.9	1,510.9	1,510.9	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Agua Fria River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CATERPILLAR TANK WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek								
A	92,865	295	2,548	6.0	1,286.4	1,286.4	1,286.6	0.2
B	93,255	249	2,195	7.0	1,286.7	1,286.7	1,287.0	0.3
C	93,894	143	1,234	12.5	1,287.5	1,287.5	1,288.0	0.5
D	94,681	110	1,047	14.7	1,292.8	1,292.8	1,293.2	0.4
E	95,468	185	2,411	6.4	1,301.3	1,301.3	1,301.4	0.1
F	95,959	268	3,010	5.1	1,302.0	1,302.0	1,302.0	0.0
G	96,460	228	2,349	6.6	1,302.0	1,302.0	1,302.1	0.1
H	96,951	212	2,086	7.4	1,302.3	1,302.3	1,302.4	0.1
I	97,448	223	1,315	11.7	1,309.1	1,309.1	1,309.1	0.0
J	97,918	288	3,071	5.0	1,310.1	1,310.1	1,310.2	0.1
K	98,419	255	2,581	6.0	1,311.2	1,311.2	1,311.3	0.1
L	98,916	228	2,232	6.9	1,311.5	1,311.5	1,311.5	0.0
M	99,433	215	2,198	7.0	1,312.0	1,312.0	1,312.0	0.0
N	99,924	200	2,086	7.4	1,312.4	1,312.4	1,312.5	0.1
O	100,415	172	1,483	10.4	1,312.7	1,312.7	1,312.7	0.0
P	100,938	120	1,023	15.1	1,314.3	1,314.3	1,314.5	0.2
Q	101,429	157	1,462	10.5	1,319.0	1,319.0	1,319.0	0.0
R <sup>2</sup>	101,973	160	1,330	11.0	1,325.1	1,325.1	1,325.1	0.0
S <sup>2</sup>	102,527	163	1,343	10.9	1,327.4	1,327.4	1,327.4	0.0
T	103,257	130	1,316	11.1	1,330.1	1,330.1	1,330.1	0.0
U	104,238	85	969	5.9	1,333.8	1,333.8	1,333.8	0.0
V	104,792	86	868	6.6	1,333.9	1,333.9	1,333.9	0.0
W	105,389	73	441	12.9	1,334.2	1,334.2	1,334.2	0.0
X	105,859	50	366	15.6	1,340.2	1,340.2	1,340.2	0.0
Y	106,360	57	536	10.6	1,345.3	1,345.3	1,345.3	0.0
Z	106,878	71	561	10.2	1,347.3	1,347.3	1,347.3	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

<sup>2</sup>Data Removed by LOMR 10-09-0687P

T  
A  
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FEDERAL EMERGENCY MANAGEMENT AGENCY

MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS

FLOODWAY DATA

CAVE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek (Cont'd)								
AA	107,369	73	640	8.9	1,349.2	1,349.2	1,349.3	0.1
AB	107,833	114	796	7.2	1,351.4	1,351.4	1,349.7	0.1
AC	108,393	139	841	6.8	1,354.1	1,354.1	1,354.1	0.0
AD	108,916	130	1,059	5.4	1,355.1	1,355.1	1,355.1	0.0
AE	109,428	64	398	14.3	1,357.8	1,357.8	1,357.8	0.0
AF	110,141	162	1,041	5.5	1,368.8	1,368.8	1,369.3	0.5
AG	110,579	220	1,271	4.5	1,369.7	1,369.7	1,370.0	0.3
AH	111,498	151	1,041	5.5	1,371.0	1,371.0	1,371.2	0.2
AI	112,395	229	1,190	4.8	1,377.3	1,377.3	1,377.4	0.1
AJ	113,193	231	1,199	4.8	1,378.3	1,378.3	1,378.3	0.0
AK	113,895	211	919	6.2	1,380.2	1,380.2	1,380.2	0.0
AL	114,254	198	593	9.6	1,385.1	1,385.1	1,385.1	0.0
AM	114,634	198	550	10.0	1,388.8	1,388.8	1,388.8	0.0
AN	114,951	235	1,311	4.2	1,390.5	1,390.5	1,390.5	0.0
AO	115,548	222	1,321	4.2	1,393.6	1,393.6	1,393.6	0.0
AP	115,796	198	1,226	4.5	1,393.9	1,393.9	1,393.9	0.0
AQ	116,102	85	540	10.2	1,394.3	1,394.3	1,394.3	0.0
AR	116,704	406	717	7.7	1,403.6	1,403.6	1,403.9	0.3
AS	117,031	303	663	8.3	1,407.0	1,407.0	1,407.0	0.0
AT	117,601	241	880	6.2	1,410.2	1,410.2	1,410.2	0.0
AU	118,325	180	560	9.8	1,416.1	1,416.1	1,416.1	0.0
AV	118,710	160	1,293	4.3	1,418.4	1,418.4	1,418.7	0.3
AW	119,212	96	772	7.1	1,418.4	1,418.4	1,419.1	0.7
AX	119,724	198	1,406	3.9	1,419.9	1,419.9	1,420.6	0.7
AY	120,352	183	1,174	4.7	1,420.5	1,420.5	1,420.5	1.0
AZ	120,806	169	774	7.1	1,422.0	1,422.0	1,422.4	0.4

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CAVE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek (Cont'd)								
BA	121,392	175	624	5.9	1,424.6	1,424.6	1,425.3	0.7
BB	121,847	117	510	6.5	1,433.1	1,433.1	1,433.1	0.0
BC	121,973	111	471	7.0	1,433.6	1,433.6	1,433.6	0.0
BD	122,454	58	270	12.2	1,437.5	1,437.5	1,437.5	0.0
BE	123,061	64	405	8.2	1,444.6	1,444.6	1,444.6	0.0
BF	123,494	62	393	8.4	1,446.9	1,446.9	1,446.9	0.0
BG	124,016	68	451	7.3	1,449.7	1,449.7	1,449.7	0.0
BH	124,434	67	427	7.7	1,451.5	1,451.5	1,451.5	0.0
BI	124,935	63	394	8.4	1,454.0	1,454.0	1,454.0	0.0
BJ	125,595	112	688	4.8	1,457.4	1,457.4	1,457.4	0.0
BK	126,102	64	420	7.9	1,459.8	1,459.8	1,459.8	0.0
BL	126,525	80	494	6.7	1,461.6	1,461.6	1,461.6	0.0
BM	127,079	72	498	6.6	1,463.8	1,463.8	1,463.8	0.0
BN	127,612	152	1,163	2.8	1,464.8	1,464.8	1,464.8	0.0
BO	128,304	261	1,589	2.1	1,465.4	1,465.4	1,465.5	0.1
BP	128,975	150	655	5.0	1,466.3	1,466.3	1,466.5	0.2
BQ	129,619	166	632	5.6	1,470.4	1,470.4	1,470.7	0.3
BR	129,877	100	308	10.0	1,472.2	1,472.2	1,472.2	0.0
BS	130,596	70	337	8.6	1,481.0	1,481.0	1,481.4	0.4
BT	131,102	40	223	13.7	1,484.8	1,484.8	1,485.0	0.2
BU	131,752	71	441	6.5	1,489.0	1,489.0	1,489.6	0.6
BV	132,206	59	263	11.0	1,491.7	1,491.7	1,492.0	0.3
BW	132,818	78	410	7.0	1,495.4	1,495.4	1,496.2	0.8
BX	133,109	195	1,042	2.8	1,496.8	1,496.8	1,497.7	0.9
BY	133,938	60	326	8.8	1,502.0	1,502.0	1,502.0	0.0
BZ	134,260	63	324	8.9	1,503.2	1,503.2	1,503.7	0.5

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	MARICOPA COUNTY, AZ AND INCORPORATED AREAS	CAVE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek (Cont'd)								
CA	134,545	71	306	9.4	1,505.2	1,505.2	1,505.2	0.0
CB	134,962	101	759	3.8	1,516.3	1,516.3	1,516.3	0.0
CC	135,590	100	497	5.4	1,516.6	1,516.6	1,516.7	0.1
CD	136,150	100	276	9.1	1,518.2	1,518.2	1,518.3	0.1
CE	137,000	100	388	5.9	1,523.0	1,523.0	1,523.8	0.8
CF	137,586	73	307	7.2	1,525.4	1,525.4	1,525.7	0.3
CG	138,083	70	353	5.7	1,526.9	1,526.9	1,527.6	0.7
CH	138,679	87	220	8.7	1,530.1	1,530.1	1,530.1	0.0
CI	139,244	97	372	4.6	1,533.3	1,533.3	1,533.4	0.1
CJ	139,878	90	511	3.1	1,534.1	1,532.2	1,532.3	0.1
CK	140,353	80	544	2.4	1,534.1	1,534.1	1,534.3	0.2
CL	140,833	60	146	8.9	1,535.9	1,535.9	1,536.8	0.9
CM	141,420	50	123	8.9	1,548.1	1,548.1	1,548.2	0.1
CN	141,942	50	391	2.6	1,549.2	1,549.2	1,549.8	0.6
CO	142,476	50	273	3.3	1,549.2	1,549.2	1,550.0	0.8
CP	142,877	29	90	10.0	1,561.4	1,561.4	1,561.4	0.0
CQ	143,436	39	182	3.3	1,564.1	1,564.1	1,564.1	0.0
CR	144,112	50	233	1.7	1,564.4	1,564.4	1,564.4	0.0
CS	156,811	1,809	8,146	4.7	1,661.8	1,661.8	1,661.8	0.0
CT	157,603	1,080	5,662	6.5	1,667.3	1,667.3	1,667.8	0.5
CU	158,321	1,249	8,169	4.5	1,675.3	1,675.3	1,676.3	1.0
CV	158,933	1,151	4,982	7.4	1,678.3	1,678.3	1,679.0	0.7
CW	159,540	1,206	5,787	6.4	1,684.5	1,684.5	1,684.9	0.4
CX	160,190	1,473	4,904	7.5	1,687.9	1,687.9	1,688.2	0.3
CY	161,241	1,336	6,526	5.6	1,697.3	1,697.3	1,698.3	1.0
CZ	162,159	1,119	3,641	10.1	1,703.2	1,703.2	1,704.1	0.9

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CAVE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek (Cont'd)								
DA	163,152	969	3,735	9.9	1,709.8	1,709.8	1,710.4	0.6
DB	164,171	950	4,437	8.3	1,718.5	1,718.5	1,719.1	0.6
DC	164,974	1,150	2,791	13.2	1,726.2	1,726.2	1,726.3	0.1
DD	165,771	700	3,315	10.2	1,733.2	1,733.2	1,733.3	0.1
DE	166,695	810	3,022	11.2	1,740.7	1,740.7	1,740.7	0.0
DF	167,323	1,030	2,759	12.2	1,745.3	1,745.3	1,745.6	0.3
DG	167,809	1,400	4,764	7.1	1,754.5	1,754.5	1,755.5	1.0
DH	168,316	1,011	3,016	11.2	1,759.3	1,759.3	1,760.0	0.7
DI	169,319	642	3,494	9.7	1,770.6	1,770.6	1,771.3	0.7
DJ	170,338	629	4,461	7.6	1,781.7	1,781.7	1,782.7	1.0
DK	171,526	453	3,343	10.1	1,789.5	1,789.5	1,790.4	0.9
DL	172,239	551	3,003	11.3	1,796.0	1,796.0	1,796.0	0.0
DM	173,126	599	2,955	11.4	1,805.5	1,805.5	1,805.8	0.3
DN	173,849	583	3,934	8.6	1,812.0	1,812.0	1,812.6	0.6
DO	174,879	502	4,295	7.9	1,822.0	1,822.0	1,822.5	0.5
DP	175,877	648	3,539	9.5	1,827.6	1,827.6	1,828.5	0.9
DQ	176,748	649	3,387	10.0	1,835.0	1,835.0	1,835.2	0.2
DR	178,047	713	2,492	13.6	1,845.1	1,845.1	1,845.1	0.0
DS	178,728	729	5,006	6.8	1,851.7	1,851.7	1,852.1	0.4
DT	179,525	721	3,046	11.1	1,857.2	1,857.2	1,857.4	0.2
DU	180,185	450	3,215	10.5	1,866.6	1,866.6	1,866.6	0.0
DV	180,745	270	2,480	13.6	1,869.7	1,869.7	1,870.1	0.4
DW	182,450	709	3,922	8.6	1,882.3	1,882.3	1,882.6	0.3
DX	182,989	706	3,323	10.2	1,887.9	1,887.9	1,888.4	0.5
DY	183,411	576	3,140	10.8	1,893.6	1,893.6	1,894.0	0.4
DZ	184,684	576	3,011	11.2	1,904.4	1,904.4	1,904.8	0.4

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CAVE CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek (Cont'd)								
EA	185,867	457	3,893	8.7	1,916.1	1,916.1	1,916.7	0.6
EB	186,975	743	4,299	7.3	1,924.1	1,924.1	1,924.9	0.8
EC	187,936	756	3,295	9.5	1,931.7	1,931.7	1,932.0	0.3
ED	188,528	597	3,092	10.2	1,937.1	1,937.1	1,937.7	0.6
EE	189,594	543	3,460	9.1	1,947.0	1,947.0	1,947.8	0.8
EF	190,534	578	3,502	9.0	1,954.4	1,954.4	1,954.7	0.3
EG	191,543	340	2,508	12.5	1,964.6	1,964.6	1,965.4	0.8
EH	191,991	324	3,210	9.8	1,969.1	1,969.1	1,969.9	0.8
EI	192,868	393	3,060	10.2	1,976.2	1,976.2	1,976.8	0.6
EJ	193,755	371	2,619	12.0	1,983.3	1,983.3	1,983.8	0.5
EK	194,800	499	3,792	8.3	1,992.1	1,992.1	1,992.8	0.7
EL	195,233	560	3,792	8.2	1,995.6	1,995.6	1,996.6	1.0
EM	196,184	302	2,483	12.6	2,004.4	2,004.4	2,004.6	0.2
EN	197,245	314	2,963	10.4	2,013.9	2,013.9	2,014.6	0.7
EO	198,180	361	2,894	10.7	2,022.3	2,022.3	2,023.0	0.7
EP	199,135	297	3,001	10.3	2,032.1	2,032.1	2,032.9	0.8
EQ	199,684	275	2,795	8.8	2,036.9	2,036.9	2,037.2	0.3
ER	200,698	188	1,836	13.3	2,044.3	2,044.3	2,044.6	0.3
ES	201,284	113	1,311	18.3	2,051.3	2,051.3	2,051.4	0.1
ET	201,833	200	2,948	8.1	2,059.2	2,059.2	2,060.1	0.9
EU	202,440	238	2,253	10.4	2,062.2	2,062.2	2,062.7	0.5
EV	202,937	457	2,809	8.3	2,066.7	2,066.7	2,067.0	0.3
EW	203,481	363	2,241	10.4	2,070.7	2,070.7	2,071.4	0.7
EX	204,051	329	2,651	8.8	2,077.5	2,077.5	2,078.0	0.5
EY	204,463	159	1,682	13.9	2,081.8	2,081.8	2,082.5	0.7
EZ	204,948	441	3,464	6.8	2,087.9	2,087.9	2,088.9	1.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CAVE CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek (Cont'd)								
FA	205,408	419	2,359	9.9	2,091.6	2,091.6	2,092.2	0.6
FB	205,904	443	3,156	7.4	2,097.9	2,097.9	2,098.9	1.0
FC	206,390	341	2,741	8.5	2,102.4	2,102.4	2,103.1	0.7
FD	206,897	271	1,851	12.6	2,108.2	2,108.2	2,108.8	0.6
FE	207,668	301	1,930	12.1	2,116.5	2,116.5	2,116.9	0.4
FF	208,354	367	2,483	9.3	2,124.1	2,124.1	2,124.9	0.8
FG	209,104	411	2,274	10.2	2,131.3	2,131.3	2,132.1	0.8
FH	209,605	593	2,066	11.2	2,138.5	2,138.5	2,138.5	0.0
FI	210,271	442	3,451	6.7	2,144.8	2,144.8	2,144.9	0.1
FJ	211,200	360	2,643	8.8	2,153.5	2,153.5	2,154.5	1.0
FK	212,256	191	1,871	12.4	2,159.6	2,159.6	2,160.6	1.0
FL	213,629	265	1,733	13.4	2,175.3	2,175.3	2,175.3	0.0
FM	214,843	205	1,528	15.2	2,183.3	2,183.3	2,183.3	0.0
FN	216,005	209	2,115	11.0	2,202.6	2,202.6	2,202.8	0.2
FO	217,114	141	2,034	11.4	2,219.9	2,219.9	2,220.5	0.6
FP	218,011	146	1,867	12.5	2,228.9	2,228.9	2,229.6	0.7
FQ	218,962	159	2,341	9.9	2,246.4	2,246.4	2,246.6	0.2
FR	220,229	195	2,031	11.5	2,259.4	2,259.4	2,260.0	0.6
FS	221,126	279	1,788	13.0	2,268.1	2,268.1	2,268.1	0.0
FT	222,182	498	2,546	9.1	2,275.9	2,275.9	2,276.3	0.4
FU	223,397	222	1,543	15.1	2,292.4	2,292.4	2,292.5	0.1
FV	224,083	205	1,772	11.7	2,298.1	2,298.1	2,298.9	0.8
FW	225,192	240	2,193	9.4	2,311.9	2,311.9	2,312.6	0.7
FX	226,723	514	2,740	7.5	2,326.2	2,326.2	2,326.9	0.7
FY	227,674	210	1,662	12.4	2,337.6	2,337.6	2,338.3	0.7
FZ	228,624	150	1,261	16.4	2,349.7	2,349.7	2,349.7	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Salt River

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CAVE CREEK**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek Tributary								
A	650 <sup>1</sup>	72	236	4.2	1,517.8	1,517.8	1,518.5	0.7
B	1,460 <sup>1</sup>	155	655	1.5	1,520.5	1,520.5	1,521.4	0.9
C	2,560 <sup>1</sup>	130	147	3.2	1,520.9	1,520.9	1,521.6	0.7
D	3,400 <sup>1</sup>	120	189	2.5	1,527.6	1,527.6	1,528.2	0.6
Cave Creek Tributary Tributary								
A	300 <sup>2</sup>	68	494	0.9	1,520.5	1,520.5	1,521.4	0.9
B	775 <sup>2</sup>	60	192	2.3	1,522.3	1,522.3	1,523.1	0.8
C	1,300 <sup>2</sup>	110	121	3.7	1,523.9	1,523.9	1,524.0	0.1

<sup>1</sup>Stream Distance in Feet Above Confluence With Cave Creek

<sup>2</sup>Stream Distance in Feet Above Confluence With Cave Creek Tributary

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAVE CREEK TRIBUTARY AND CAVE CREEK TRIBUTARY TRIBUTARY</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek Tributary 1								
A	1,100 <sup>1</sup>	62	416	8.9	2,158.3	2,158.3	2,158.3	0.0
B	2,399 <sup>1</sup>	80	462	8.0	2,177.7	2,177.7	2,178.2	0.5
C	3,875 <sup>1</sup>	71	470	6.2	2,193.5	2,193.5	2,194.0	0.5
D	5,000 <sup>1</sup>	79	436	6.7	2,203.9	2,203.9	2,204.5	0.6
E	6,200 <sup>1</sup>	80	537	5.4	2,220.1	2,220.1	2,220.8	0.7
F	7,304 <sup>1</sup>	76	323	5.2	2,230.9	2,230.9	2,231.7	0.8
G	8,453 <sup>1</sup>	42	235	7.2	2,244.6	2,244.6	2,245.2	0.6
H	9,169 <sup>1</sup>	110	449	3.8	2,254.0	2,254.0	2,254.0	0.0
I	9,903 <sup>1</sup>	79	257	6.6	2,265.0	2,265.0	2,265.1	0.1
J	10,650 <sup>1</sup>	41	90	6.0	2,279.8	2,279.8	2,280.1	0.3
K	11,614 <sup>1</sup>	24	66	8.2	2,305.3	2,305.3	2,306.0	0.7
Cave Creek Tributary 1A								
A	301 <sup>2</sup>	61	170	6.6	2,278.0	2,278.0	2,278.0	0.0
B	1,100 <sup>2</sup>	73	200	5.6	2,303.3	2,303.3	2,303.4	0.1
Cave Creek Tributary 1B								
A	300 <sup>2</sup>	16	44	6.6	2,228.5	2,228.5	2,229.3	0.8
B	1,299 <sup>2</sup>	19	42	7.0	2,243.9	2,243.9	2,244.3	0.4
C	2,350 <sup>2</sup>	19	37	8.0	2,263.1	2,263.1	2,263.1	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Cave Creek

<sup>2</sup>Stream Distance in Feet Above Confluence With Cave Creek Tributary 1

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CAVE CREEK TRIBUTARY 1 - CAVE CREEK TRIBUTARY 1A - CAVE CREEK TRIBUTARY 1B**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cave Creek Tributary 1C								
A	45 <sup>1</sup>	82	321	2.9	2,225.2	2,225.2	2,225.7	0.5
B	851 <sup>1</sup>	63	155	4.2	2,233.7	2,233.7	2,234.1	0.4
C	1,951 <sup>1</sup>	27	71	9.1	2,251.3	2,251.3	2,251.4	0.1
Cave Creek Tributary 1D								
A	422 <sup>2</sup>	22	42	6.7	2,235.8	2,235.8	2,235.9	0.1
B	1,200 <sup>2</sup>	19	36	7.8	2,256.8	2,256.8	2,256.9	0.1
C	2,001 <sup>2</sup>	30	42	6.8	2,279.6	2,279.6	2,279.6	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Cave Creek Tributary 1

<sup>2</sup>Stream Distance in Feet Above Confluence With Cave Creek Tributary 1C

T A B L E 6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CAVE CREEK TRIBUTARY 1C - CAVE CREEK TRIBUTARY 1D</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cemetery Wash								
A	1,196	602	1,357	5.3	2,031.4	2,031.4	2,031.4	0.0
B	1,644	694	2,925	2.5	2,039.2	2,039.2	2,039.2	0.0
C	2,610	607	1,366	5.3	2,052.1	2,052.1	2,052.1	0.0
D	3,545	389	1,092	6.7	2,068.6	2,068.6	2,068.6	0.0
E	4,535	160	777	9.3	2,085.5	2,085.5	2,085.5	0.0
F	5,476	334	2,307	3.2	2,103.5	2,103.5	2,103.5	0.0
G	6,506	201	1,581	4.6	2,119.3	2,119.3	2,119.3	0.0
H	7,551	294	1,186	6.2	2,130.2	2,130.2	2,130.2	0.0
I	8,746	237	923	7.9	2,149.3	2,149.3	2,149.3	0.0
J	9,569	320	994	7.3	2,161.5	2,161.5	2,161.5	0.0
K	10,733	621	1,514	4.7	2,180.9	2,180.9	2,180.9	0.0
L	11,864	301	1,183	5.9	2,200.6	2,200.6	2,200.6	0.0
M	12,858	418	966	7.3	2,216.7	2,216.7	2,216.7	0.0
N	13,964	147	684	10.0	2,235.7	2,235.7	2,235.7	0.0
O	14,806	112	644	10.7	2,250.8	2,250.8	2,250.8	0.0
P	15,996	245	1,021	6.5	2,265.7	2,265.7	2,265.7	0.0
Q	17,001	193	790	8.2	2,280.5	2,280.5	2,280.5	0.0
R	18,001	161	669	9.4	2,296.3	2,296.3	2,296.3	0.0
S	19,294	264	875	6.1	2,313.9	2,313.9	2,313.9	0.0
T	20,193	308	863	5.0	2,327.9	2,327.9	2,327.9	0.0
U	21,204	315	542	6.1	2,346.8	2,346.8	2,346.8	0.0
V	22,409	306	554	5.1	2,368.4	2,368.4	2,368.4	0.0
W	23,567	373	545	5.1	2,391.4	2,391.4	2,391.4	0.0
X	24,627	486	538	4.3	2,406.1	2,406.1	2,406.1	0.0
Y	25,829	445	991	2.3	2,424.6	2,424.6	2,424.6	0.0
Z	26,991	408	439	4.1	2,442.6	2,442.6	2,442.6	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Hassayampa River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CEMETERY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cemetery Wash (Cont'd)								
AA	28,152	175	280	3.4	2,460.2	2,460.2	2,460.2	0.0
AB	29,331	164	248	3.9	2,480.4	2,480.4	2,480.4	0.0
AC	30,335	527	419	2.3	2,494.1	2,494.1	2,494.1	0.0
AD	31,338	164	222	4.3	2,512.3	2,512.3	2,512.3	0.0
AE	32,874	425	318	3.0	2,534.5	2,534.5	2,534.5	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Hassayampa River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CEMETERY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cemetery Wash Tributary R-1								
A	676	53	129	7.3	2,258.6	2,258.6	2,258.6	0.0
B	1,468	34	109	8.7	2,270.3	2,270.3	2,270.3	0.0
C	2,012	33	100	9.4	2,285.4	2,285.4	2,285.4	0.0
D	2,999	55	123	7.7	2,303.1	2,303.1	2,303.1	0.0
E	4,002	51	97	6.9	2,324.0	2,324.0	2,324.0	0.0
F	5,000	34	82	8.1	2,341.0	2,341.0	2,341.0	0.0
G	5,998	46	118	5.7	2,357.6	2,357.6	2,357.6	0.0
H	6,938	47	77	5.8	2,375.2	2,375.2	2,375.2	0.0
I	7,498	35	69	6.5	2,384.2	2,384.2	2,384.2	0.0
J	8,501	42	74	6.0	2,402.5	2,402.5	2,402.5	0.0
K	9,161	25	38	5.8	2,417.7	2,417.7	2,417.7	0.0
L	9,800	32	40	5.6	2,429.2	2,429.2	2,429.2	0.0
M	10,269	27	44	5.1	2,439.7	2,439.7	2,439.7	0.0
N	11,098	25	40	5.5	2,459.9	2,459.9	2,459.9	0.0
O	12,038	47	53	4.2	2,486.5	2,486.5	2,486.5	0.0
P	12,571	46	46	4.9	2,503.0	2,503.0	2,503.0	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Cemetery Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CEMETERY WASH TRIBUTARY R-1</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cemetery Wash Tributary R-2								
A	1,163	155	798	3.5	2,315.4	2,315.4	2,315.4	0.0
B	2,151	189	463	6.0	2,330.4	2,330.4	2,330.4	0.0
C	3,112	519	543	4.6	2,346.5	2,346.5	2,346.5	0.0
D	3,644	233	434	5.8	2,356.8	2,356.8	2,356.8	0.0
E	4,637	309	494	5.1	2,370.6	2,370.6	2,370.6	0.0
F	5,624	367	551	4.1	2,388.1	2,388.1	2,388.1	0.0
G	6,416	506	582	3.9	2,401.1	2,401.1	2,401.1	0.0
H	7,456	144	347	6.5	2,421.2	2,421.2	2,421.2	0.0
I	8,449	381	357	5.8	2,434.5	2,434.5	2,434.5	0.0
J	9,055	298	330	6.3	2,444.6	2,444.6	2,444.6	0.0
K	9,747	289	362	5.7	2,455.6	2,455.6	2,455.6	0.0
L	10,824	196	471	4.4	2,476.6	2,476.6	2,476.6	0.0
M	11,758	278	570	3.4	2,488.6	2,488.6	2,488.6	0.0
N	12,756	296	498	3.9	2,499.5	2,499.5	2,499.5	0.0
O	13,628	307	506	3.4	2,510.8	2,510.8	2,510.8	0.0
P	14,536	383	453	3.8	2,524.0	2,524.0	2,524.0	0.0
Q	14,895	452	580	3.0	2,527.6	2,527.6	2,527.6	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Cemetery Wash

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CEMETERY WASH TRIBUTARY R-2</b>

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Cemetery Wash Tributary R-3								
A	498	537	291	2.2	2,459.9	2,459.9	2,459.9	0.0
B	1,422	270	129	3.7	2,470.8	2,470.8	2,470.8	0.0
C	2,177	233	145	3.3	2,484.1	2,484.1	2,484.1	0.0
D	2,821	188	96	3.4	2,494.9	2,494.9	2,494.9	0.0
E	3,582	138	70	3.4	2,510.8	2,510.8	2,510.8	0.0
F	4,400	91	90	2.7	2,526.9	2,526.9	2,526.9	0.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Cemetery Wash

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CEMETERY WASH TRIBUTARY R-3**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash								
A	7,735	8,657	14,411	4.7	781.1	781.1	781.1	0.0
B	9,187	2,588	10,334	6.5	787.9	787.9	788.0	0.1
C	12,091	2,572	14,033	4.8	791.3	791.3	792.1	0.8
D	12,397	2,700	15,638	4.3	797.2	797.2	797.8	0.6
E	15,418	2,465	18,438	3.7	803.8	803.8	804.7	0.9
F	16,833	2,934	21,186	3.2	806.0	806.0	806.9	0.9
G	18,881	2,542	14,509	4.6	808.4	808.4	809.3	0.9
H	20,465	1,870	14,216	4.7	813.4	813.4	814.3	0.9
I	23,549	2,540	17,750	3.8	818.7	818.7	819.5	0.8
J	25,925	2,946	15,216	4.4	821.7	821.7	822.7	1.0
K	28,866	2,750	13,997	4.8	830.2	830.2	831.2	1.0
L	30,571	3,200	14,189	4.7	834.9	834.9	835.7	0.8
M	33,317	3,700	14,156	4.8	843.1	843.1	843.8	0.7
N	35,191	3,730	12,557	5.4	846.9	846.9	847.3	0.4
O	37,298	3,600	14,878	4.5	851.2	851.2	852.1	0.9
P	38,005	3,300	11,208	5.2	858.2	858.2	858.2	0.0
Q	42,319	3,079	13,173	4.4	862.2	862.2	862.6	0.4
R	44,009	3,148	13,447	4.3	865.2	865.2	865.7	0.5
S	46,327	3,800	15,744	3.7	869.4	869.4	870.4	1.0
T	48,919	2,670	11,567	5.0	874.9	874.9	875.8	0.9
U	51,026	1,913	10,270	5.7	880.6	880.6	881.6	1.0
V	53,618	1,922	11,142	5.2	887.1	887.1	888.1	1.0
W	56,839	1,968	9,289	6.3	894.3	894.3	895.0	0.7
X	57,684	2,548	14,098	4.1	896.6	896.6	897.5	0.9
Y	60,266	2,500	12,526	4.6	901.9	901.9	902.8	0.9
Z	62,901	2,100	10,911	5.3	908.5	908.5	909.3	0.8

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CENTENNIAL WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash (Cont'd)								
AA	64,764	1,900	11,162	5.2	914.2	914.2	914.7	0.5
AB	68,772	2,800	14,602	4.0	923.1	923.1	923.8	0.7
AC	70,657	2,335	13,378	4.3	925.9	925.9	926.6	0.7
AD	71,988	2,200	9,788	5.9	928.9	928.9	929.4	0.5
AE	75,119	1,210	8,547	6.8	939.9	939.9	939.9	0.0
AF	76,771	2,225	10,940	5.3	943.1	943.1	944.0	0.9
AG	79,464	1,588	9,735	6.0	950.2	950.2	950.4	0.2
AH	82,606	2,250	11,930	4.9	958.4	958.4	959.1	0.7
AI	83,582	1,743	10,546	5.5	960.3	960.3	961.3	1.0
AJ	85,193	1,621	10,134	5.7	966.8	966.8	967.7	0.9
AK	89,728	1,050	7,209	8.1	981.7	981.7	982.6	0.9
AL	92,400	1,000	8,474	6.9	992.6	992.6	993.3	0.7
AM	95,061	741	6,097	9.5	1,000.7	1,000.7	1,001.2	0.5
AN	96,798	825	7,972	7.3	1,007.5	1,007.5	1,008.5	1.0
AO	100,600	850	8,160	7.1	1,019.4	1,019.4	1,019.8	0.4
AP	102,142	1,350	8,609	6.7	1,024.0	1,024.0	1,024.4	0.4
AQ	104,264	990	7,479	7.8	1,029.0	1,029.0	1,029.6	0.6
AR	106,788	1,100	7,351	7.9	1,038.2	1,038.2	1,038.8	0.6
AS	111,704	1,550	10,176	5.7	1,052.2	1,052.2	1,052.6	0.4
AT	112,380	1,500	12,684	4.6	1,054.1	1,054.1	1,054.7	0.6
AU	114,819	2,224	17,612	3.3	1,058.1	1,058.1	1,058.8	0.7
AV	118,198	2,426	16,059	3.6	1,061.5	1,061.5	1,062.2	0.7
AW	119,877	2,900	13,300	4.4	1,064.8	1,064.8	1,065.7	0.9
AX	121,915	3,520	14,684	4.0	1,067.1	1,067.1	1,068.1	1.0
AY	124,846	3,400	11,964	4.9	1,073.0	1,073.0	1,074.0	1.0
AZ	128,272	3,405	16,676	3.1	1,083.4	1,083.4	1,083.9	0.5

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CENTENNIAL WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash (Cont'd)								
BA	131,757	3,600	14,666	3.6	1,089.8	1,089.8	1,090.2	0.4
BB	133,885	3,350	15,283	3.4	1,095.8	1,095.8	1,096.2	0.4
BC	137,914	3,050	13,340	3.9	1,103.9	1,103.9	1,104.3	0.4
BD	140,839	3,350	10,423	5	1,109.9	1,109.9	1,110.3	0.4
BE	143,732	2,450	8,946	5.8	1,118.3	1,118.3	1,118.6	0.3
BF	146,003	3,000	10,235	5.1	1,125.7	1,125.7	1,126.0	0.3
BG	147,497	3,100	11,852	4.4	1,130.1	1,130.1	1,130.4	0.3
BH	148,933	2,950	11,239	4.6	1,133.8	1,133.8	1,134.1	0.3
BI	151,985	2,766	10,171	5.1	1,142.4	1,142.4	1,142.7	0.3
BJ	154,092	3,020	10,526	5.0	1,149.3	1,149.3	1,149.6	0.3
BK	156,732	3,150	10,509	5.0	1,154.9	1,154.9	1,155.3	0.4
BL	158,954	4,930	11,765	4.4	1,164.3	1,164.3	1,164.8	0.5
BM	161,061	5,180	12,443	4.2	1,170.7	1,170.7	1,171.1	0.4
BN	158,580	5,100	13,009	4.0	1,179.3	1,179.3	1,179.7	0.4
BO	166,183	4,300	13,731	3.8	1,185.9	1,185.9	1,186.2	0.3
BP	167,978	4,170	14,385	3.6	1,192.3	1,192.3	1,192.8	0.5
BQ	170,824	4,140	13,498	3.9	1,200.5	1,200.5	1,200.9	0.4
BR	173,158	4,300	15,316	3.4	1,208.4	1,208.4	1,208.8	0.4
BS	174,309	4,500	14,805	3.5	1,212.6	1,212.6	1,213.2	0.6
BT	175,951	5,250	13,636	3.8	1,217.7	1,217.7	1,218.3	0.6
BU	176,500	5,400	13,359	3.9	1,219.2	1,219.2	1,219.8	0.6
BV	178,068	5,263	13,024	4.0	1,224.1	1,224.1	1,224.7	0.6
BW	179,805	5,595	14,923	3.5	1,229.1	1,229.1	1,230.1	1.0
BX	181,658	4,700	13,748	3.8	1,234.2	1,234.2	1,234.7	0.5
BY	184,288	3,400	11,884	4.4	1,240.2	1,240.2	1,241.0	0.8
BZ	186,463	2,900	13,631	3.8	1,246.9	1,246.9	1,247.8	0.9

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

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FEDERAL EMERGENCY MANAGEMENT AGENCY

MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS

FLOODWAY DATA

CENTENNIAL WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash (Cont'd)								
CA	188,364	1,950	10,216	5.1	1,252.7	1,252.7	1,253.3	0.6
CB	190,898	1,800	9,860	5.3	1,259.9	1,259.9	1,260.7	0.8
CC	193,628	1,600	10,362	5.0	1,267.0	1,267.0	1,267.9	0.9
CD	195,064	1,453	9,496	5.5	1,270.3	1,270.3	1,271.3	1.0
CE	198,132	1,450	9,220	5.7	1,278.7	1,278.7	1,279.7	1.0
CF	200,244	1,750	9,686	5.4	1,284.6	1,284.6	1,285.5	0.9
CG	202,245	2,050	9,557	5.5	1,291.1	1,291.1	1,291.8	0.7
CH	204,468	1,950	10,035	5.2	1,297.6	1,297.6	1,298.6	1.0
CI	207,583	1,600	9,017	5.8	1,308.5	1,308.5	1,309.3	0.8
CJ	209,215	1,800	9,721	5.4	1,313.8	1,313.8	1,314.8	1.0
CK	210,862	1,900	10,237	5.1	1,318.6	1,318.6	1,319.6	1.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Gila River

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CENTENNIAL WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash (Cont'd)								
CL	370	1,500	5,535	3.9	2,053.0	2,053.0	2,053.9	0.9
CM	1,357	1,500	6,058	3.6	2,054.6	2,054.6	2,055.5	0.9
CN	2,350	1,700	6,617	3.3	2,056.0	2,056.0	2,056.9	0.9
CO	3,342	1,700	5,959	3.6	2,057.6	2,057.6	2,058.4	0.8
CP	4,330	1,700	6,001	3.6	2,059.5	2,059.5	2,060.3	0.8
CQ	5,322	1,900	6,875	3.2	2,061.3	2,061.3	2,062.2	0.9
CR	6,252	1,400	4,725	4.6	2,063.9	2,063.9	2,064.5	0.6
CS	7,656	1,400	4,838	4.5	2,066.4	2,066.4	2,067.2	0.8
CT	8,654	1,400	5,089	4.3	2,068.8	2,068.8	2,069.6	0.8
CU	9,657	1,400	5,211	4.2	2,071.0	2,071.0	2,071.8	0.8
CV	10,634	1,400	5,431	4.0	2,073.0	2,073.0	2,073.8	0.8
CW	11,637	1,700	6,606	3.3	2,074.8	2,074.8	2,075.7	0.9
CX	12,619	1,700	7,028	3.1	2,076.3	2,076.3	2,077.2	0.9
CY	13,121	1,400	5,605	3.9	2,076.9	2,076.9	2,077.8	0.9
CZ	14,098	1,400	4,801	4.5	2,078.9	2,078.9	2,079.7	0.8
DA	15,101	1,500	5,728	3.8	2,080.7	2,080.7	2,081.6	0.9
DB	15,592	1,400	5,485	4.0	2,081.6	2,081.6	2,082.5	0.9
DC	16,511	1,400	5,375	4.0	2,083.6	2,083.6	2,084.4	0.8
DD	17,487	1,500	5,436	4.0	2,085.8	2,085.8	2,086.7	0.9
DE	18,480	1,500	5,316	4.1	2,087.6	2,087.6	2,088.4	0.8
DF	19,473	1,500	5,434	4.0	2,089.7	2,089.7	2,090.4	0.7
DG	20,581	2,100	6,601	3.3	2,091.6	2,091.6	2,092.5	0.9
DH	21,152	2,200	6,867	3.2	2,092.5	2,092.5	2,093.4	0.9
DI	22,202	2,000	6,489	3.3	2,094.9	2,094.9	2,095.7	0.8
DJ	23,739	2,300	7,547	2.9	2,097.0	2,097.0	2,098.0	1.0
DK	24,742	2,000	6,366	3.4	2,098.8	2,098.8	2,099.4	0.6

<sup>1</sup>Stream Distance in Feet Above Maricopa County Line

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	CENTENNIAL WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash (Cont'd)								
DL	25,244	2,000	6,945	3.1	2,099.5	2,099.5	2,100.2	0.7
DM	26,252	2,000	5,936	3.7	2,101.1	2,101.1	2,101.8	0.7
DN	27,240	2,000	6,137	3.5	2,102.6	2,102.6	2,103.3	0.7
DO	28,253	2,500	5,397	4.0	2,105.2	2,105.2	2,105.7	0.5
DP	29,235	2,720	6,482	3.3	2,106.4	2,106.4	2,107.4	1.0
DQ	30,223	3,138	7,643	2.8	2,108.9	2,108.9	2,109.6	0.7
DR	31,210	3,163	6,701	3.2	2,111.1	2,111.1	2,111.9	0.8
DS	31,706	3,161	6,948	3.1	2,112.2	2,112.2	2,113.0	0.8

<sup>1</sup>Stream Distance in Feet Above Maricopa County Line

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FEDERAL EMERGENCY MANAGEMENT AGENCY

**MARICOPA COUNTY, AZ  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**CENTENNIAL WASH**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
					(FEET NAVD)			
Centennial Wash North Branch								
A	1,267	1,000	2,884	2.4	2,122.7	2,122.7	2,123.5	0.8
B	2,677	1,000	1,435	4.9	2,126.0	2,126.0	2,126.6	0.6
C	3,654	1,000	1,703	4.1	2,130.0	2,130.0	2,130.8	0.8
D	4,166	1,000	2,068	3.4	2,132.1	2,132.1	2,133.0	0.9
E	5,132	1,000	2,196	3.2	2,135.9	2,135.9	2,136.8	0.9
F	6,135	1,200	1,627	4.3	2,139.4	2,139.4	2,140.2	0.8
G	6,642	1,350	2,867	2.4	2,141.0	2,141.0	2,142.0	1.0
H	7,640	1,000	1,718	4.1	2,144.1	2,144.1	2,145.0	0.9
I	8,622	900	1,863	3.7	2,147.5	2,147.5	2,148.2	0.7
J	10,111	900	2,047	3.4	2,152.0	2,152.0	2,152.7	0.7
K	11,114	900	1,866	3.7	2,155.8	2,155.8	2,156.3	0.5
L	12,049	900	2,071	3.4	2,158.9	2,158.9	2,159.6	0.7
M	13,036	900	1,910	3.6	2,162.7	2,162.7	2,163.5	0.8
N	14,024	1,000 <sup>2</sup>	1,861	3.7	2,165.8	2,165.8	2,166.8	1.0

<sup>1</sup>Stream Distance in Feet Above Confluence With Aguila Farm Channel

<sup>2</sup>Floodway Lies Entirely Outside Maricopa County Boundaries

T A B L E  6	FEDERAL EMERGENCY MANAGEMENT AGENCY	<b>FLOODWAY DATA</b>
	<b>MARICOPA COUNTY, AZ AND INCORPORATED AREAS</b>	<b>CENTENNIAL WASH NORTH BRANCH</b>