TABLE OF REGULATORY PEAK DISCHARGES
(Revised October 8, 2013)

Section 16.16.030.B requires the Chief Engineer to list the base flood peak discharges of all watersheds that generate flood peaks greater than 5,000 cfs. This list meets that requirement and includes peak discharges for other return frequencies as well as for smaller watersheds where regulatory discharges have been determined. This list is not all inclusive; any watershed that generates base flood peak discharges of more than 100 cfs is subject to the requirements of the Floodplain and Erosion Hazard Management Ordinance, Title 16 of the Pima County Code. Listed discharges are subject to review and revision due to urbanization, improvements, changes in the watershed, and improved methodology (check with Floodplain Management Division staff before use). All discharge values are in cubic feet per second.

Watercourse	**Regulatory Discharge[1] (1% Return Frequency)**	**Other Discharge Values (Return Frequencies)[2]**	**Drainage Area (sq. miles)**	**Source of Discharge Information**
Agua Caliente Wash[3]				
Upstream of confluence with Tanque Verde Creek	7,180	6,090 (2%), 9,555 (0.2%)	40.40	FEMA Map Revision (11-09-1817S)
Downstream of the divergence of the Agua Caliente Spur Flow	10,540	7,930 (2%), 18,925 (0.2%)		‘’
Downstream of confluence with Soldier Canyon Wash	13,000	9,200 (2%), 26,000 (0.2%)		‘’
Upstream of confluence with Soldier Canyon Wash	12,000	3,400 (10%), 8,400 (2%), 24,000 (0.2%)	28.60	‘’
Agua Caliente Split Flow				
@ Divergence from Agua Caliente Wash	3,360	1,890 (2%), 7,080 (0.2%)		FEMA Map Revision (11-09-1817S)
@ Confluence with Tanque Verde Creek	5,820	3,160 (2%), 16,445 (0.2%)		‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Agua Caliente Spur Flow @ Confluence with Agua Caliente Split Flow	2,460	1,270 (2%), 7,075 (0.2%)		FEMA Map Revision (11-09-1817S)
Airport Wash @ Confluence with Santa Cruz River	8,100	2,800 (10%), 6,200 (2%), 11,500 (0.2%)	23.50	FEMA, Flood Insurance Study
Big Wash Upstream of Confluence with Canada Del Oro Wash	18,300	5,700 (10%), 13,500 (2%), 31,000 (0.2%)	110.00	FEMA, Flood Insurance Study
Upstream of Confluence with Honey Bee Wash	16,900	5,200 (10%), 12,400 (2%), 28,000 (0.2%)	89.90	‘’
Black Wash @ downstream limit of detailed study (intersection of Tucson-Ajo and Old Ajo Highway, West of Vahalla Road)	8,872		48.80	FEMA, Flood Insurance Study
South of Tucson Ajo Highway, west of Vahalla Road	4,904		26.40	‘’
At the middle of Section 9, north of Valencia Road and east of Vahalla Road	6,703		24.20	‘’
South of Valencia Road, downstream Of Camino Rancho Rod	4,962		22.5	FEMA Map Revision (12-09-1311P)
South of Valencia Road, near Viviana Road[4]	5,035		16.80	FEMA, Flood Insurance Study

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Blanco Wash Upstream of confluence with Los Robles Wash	17,000	6,800 (10%), 13,500 (2%), 34,000 (0.2%)	165.00	FEMA, Flood Insurance Study
Bowes Wash @ Tres Lomas Wash	2,006			From Previous Discharge Table
Brawley Wash Upstream of confluence with Los Robles Wash	35,000	14,000 (10%), 28,000 (2%), 70,000 (0.2%)	1,165.00	FEMA, Flood Insurance Study
East Branch Brawley Wash @Avra Valley Road	21,000			‘’
Caliente Hills Wash @ National Forest Boundary	2,899			From Previous Discharge Table
@ Agua Caliente Wash	2,473			‘’
Camino Del Oeste Wash				Pima County Regional Flood Control District Special Study (#63). Used in FEMA Map Revision (10-09-3002P)
@ Silverbell Road	6,432		5.69	
@ Speedway Boulevard	6,606		4.99	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Camino Real Wash				Pima County Regional Flood Control District Special Study (#36). Used in FEMA Map Revision (08-09-1560P)
@ River Road	1,956		1.70	
East Channel Downstream of River Road [5]	1,205			‘’
West Channel Downstream of River Road [5]	1,151			‘’
Campbell Wash				From Previous Discharge Table
@ Confluence with Rillito Creek	2,899			
1,295 feet upstream of Campbell Ave.	2,879		2.15	Pima County Regional Flood Control District Special Study (#76). Used in FEMA Map Revision (12-09-0017P)
Upstream of junction with East Branch of Campbell Wash at Camino Juan Paisano	2,160		1.34	‘’
2,150 feet downstream of Skyline Drive	1,841		0.75	‘’
East Branch Campbell Wash @ Camino Juan Paisano	1,336		0.62	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Canada Del Oro Wash				FEMA Conditional Map Revision
@ Confluence with Santa Cruz River	22,400	8,300 (10%), 17,300 (2%), 37,200 (0.2%)	256.00	(08-09-0112R)
@ Overton Road	22,100	8,200 (10%), 17,100 (2%), 36,800 (0.2%)	250.00	‘’
Above Confluence with Big Wash	15,000	5,600 (10%), 11,600 (2%), 25,800 (0.2%)	115.00	‘’
Above Confluence with Southerland Wash	11,900	4,400 (10%), 9,200 (2%), 19,900 (0.2%)	72.90	‘’
@ Pinal County Line	9,600	3,600 (10%), 7,400 (2%), 16,000 (0.2%)	47.00	‘’
Canyon Del Salto Wash				Pima County Regional Flood Control District Special Study (#72)
@ Confluence with Tanque Verde Creek	4,743	3,224 (4%), 7,182 (0.2%)	8.18	
Approximately 400 feet upstream of Redington Road	2,695	1,752 (4%), 4,379 (0.2%)	6.57	‘’
Eastern tributary approximately 400 Feet upstream of Redington Road	2,377	1,673 (4%), 3,317 (0.2%)	1.08	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Carmack Wash				From Previous Discharge Table
@ Thornydale Road	4,980			
@ La Cholla Boulevard	4,803		4.11	Pima County Regional Flood Control District internal memorandum by Evan Canfield (1-27-2009)
@ La Cañada Road	4,795		3.70	
Casas Adobes Wash				Pima County Regional Flood Control District Special Study (#75)
@ Rillito Creek	1,987.2		2.22	
@ Las Lomitas	1,474		1.42	‘’
@ La Cañada Road	1,363.3		1.06	‘’
Tributary @Las Lomitas	1,133		0.52	‘’
Tributary @ La Cañada Road	479		0.15	‘’
Castle Rock Wash	2,559		1.21	Pima County Regional Flood Control District Special Study (#59)
@ Tanque Verde Road				
Cienega Creek				From Previous Discharge Table
@ Pantano Wash	18,000			
Citrus Wash				
Approximately 2,500 feet upstream of Oracle Jaynes Station Road	1,562		0.80	FEMA Map Revision (02-09-0746X)
@ Oracle Jaynes Station Road	1,152		0.80	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Craycroft Wash @ Rillito Creek	3,620	2,244 (4%), 5,679 (0.2%)	3.16	Pima County Regional Flood Control District Special Study (#56)
South of Rio Verde Vista Drive	3,145	1,953 (4%), 4,849 (0.2%)	2.51	‘’
West Branch Craycroft Wash North of Center Village Drive	1,413	894 (4%), 2,178 (0.2%)	1.02	‘’
West Branch Craycroft Wash South of Territory Drive	1,489	954 (4%), 2,230 (0.2%)	0.95	‘’
East Branch Craycroft Wash North of Center Village Drive	2,093	1,333 (4%), 3,137 (0.2%)	1.34	‘’
East Branch Craycroft Wash South of Territory	1,269	807 (4%), 1,913 (0.2%)	0.73	‘’
Cuprite Wash Upstream of Fagan Wash	6,750	2,929 (10%), 4,888 (4%)	35.00	Lee Moore Wash Basin Management Study
Upstream of Houghton Road	4,260	1,264 (10%), 2,257 (4%)	6.00	‘’
Upstream of Wilmot Road	6,160	3,472 (10%), 5,299 (4%)	25.00	‘’
Dakota Wash @ Mission Road	2,745		1.97	Flood Control District Internal Memorandum (undated)
Davidson Canyon Wash @ Vail	19,000			From Previous Discharge Table

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Deep Well Ranch Wash @ Redington Road	770			From Previous Discharge Table
Del Cerro Wash @ Silverbell Road	1,182		1.23	Pima County Regional Flood Control District Special Study (#64). Used in FEMA Map Revision (10-09-2797P)
Demetrie Wash @ Wetstones Road	11,500		329	Pima County Regional Flood Control District Special Study (#28)
Dodge Tank Wash @ Pinal County Line	6,224	8,732 (0.2%)	5.82	FEMA Map Revision (12-09-0547P)
Earp Wash @ Palo Verde Road	767		0.53	Pima County Regional Flood Control District Special Study (#35)
Esperero Wash				Pima County Regional Flood Control District Special Study (#68). Used in FEMA Map Revision (09-09-2406P)
Upstream of Confluence with Ventana Canyon Wash	8,898	4,246 (10%), 6,949 (2%), 13,574 (0.2%)	6.19	
Upstream of Sunrise Drive	9,170	4,333 (10%), 7,067 (2%), 13,663 (0.2%)	6.11	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Esperero Wash (continued) Downstream of Thimble View Way	10,762	5,121 (10%), 8,907 (2%), 15,953 (0.2%)	5.90	Pima County Regional Flood Control District Special Study (#68). Used in FEMA Map Revision (09-09-2406P)
Fagan Wash				Lee More Wash Basin Management Study
Fagan Wash "A" at Lee Moore Wash	7,390	2,565 (10%), 4,742 (4%)	42.00	
Fagan Wash "B" at Lee Moore Wash	2,620	630 (10%), 1,500 (4%)	12.00	‘’
Fagan Wash downstream of Cuprite Wash	9,810	3,354 (10%), 6,264 (4%)	52.00	‘’
Fagan Wash upstream of Cuprite Wash	3,100	715 (10%), 1,485 (4%)	17.00	‘’
Fagan Wash upstream of Wilmot Road	2,560	624 (10%), 1,234 (4%)	9.00	‘’
Ferrero Wash @ Tanque Verde Creek	968			From Previous Discharge Table

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Finger Rock Wash				FEMA Map Revision
@ Alvernon Way	5,756		6.40	(11-09-0275P)
@ Skyline Drive	6,060		5.30	‘’
@ Coronado National Forest Boundary	2,324		1.50	‘’
Finger Rock Wash Split Flow @ Coronado Drive	1,922		3.40	‘’
Flato Wash				Lee Moore Wash Basin
@ at Wilmot Road	2,120	979 (10%), 1,476 (4%)	10.00	Management Study
Upstream of Houghton Rd	5,690	4,829 (10%), 6,062 (4%)	18.00	‘’
Flecha Caida Wash				Pima County Regional
@ Confluence with Rillito Creek	1,370		1.42	Flood Control District Special Study (#55). Used in FEMA Map Revision (10-09-3332P)
@ River Road	846		0.83	‘’
@ Via Ra Posa	781		0.69	‘’
@ Paseo del Bac	604		0.47	‘’
Eastern Tributary of Flecha Caida Wash @ River Road	574		0.41	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Forty-Niners Wash				From Previous Discharge Table
@ National Forest Boundary	4,578			
@ Tanque Verde Road	3,500			‘’
Franco Wash				Lee Moore Wash Basin Management Study Lee More Wash Basin Management Study
@ Wentworth Road	2,188		4.20	
@ Houghton Road Fairgrounds	2,586		10.10	‘’
@ Wilmot Road	2,782		21.70	‘’
@ Swan Road	2,755		22.70	‘’
@ Old Vail Connection Road	4,449		30.80	‘’
@ Nogales Highway	4,394		31.30	‘’
Freeman Wash				From Previous Discharge Table
@ Tanque Verde Creek	2,467			
@ St. James Road	2,785			‘’
Friendly Village Wash				Pima County Regional Flood Control District Special Study (#73). Used in FEMA Map Revision (08-09-0473P)
@ Stone Loop	1,610	2,639 (0.2%)	1.16	
@ Yvon Road	1,671	2,780 (0.2%)	1.11	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
East Branch Friendly Village Wash				Pima County Regional Flood Control District Special Study (#73). Used in FEMA Map Revision (08-09-0473P)
@ Agave Road	666	1,042 (0.2%)	0.29	
@ First Avenue	442	697 (0.2%)	0.18	
West Branch Friendly Village Wash	1,101	1,747 (0.2%)	0.62	‘’
@ Approximately 1,800 Feet Upstream of Yvon Road				
@ First Avenue	1,007	1,496 (0.2%)	0.42	‘’
Fuller Wash				From Previous Discharge Table
Upstream of Fuller Road	4,162			
Garfield Wash				Pima County Regional Flood Control District internal memorandum by Evan Canfield (12-28-2008)
@ La Cholla Boulevard	1,137		1.43	
@ La Cañada Boulevard	886		0.75	‘’
Garfield Tributary @ La Cañada Boulevard	308		0.16	‘’
Geronimo Wash				Pima County Regional Flood Control District Special Study (#54)
@ confluence with Pima Wash	4,894	3,052 (4%), 7,995 (0.2%)	3.37	
Approximately 500 feet upstream of confluence with Pima Wash	4,002	2,450 (4%), 6,495 (0.2%)	2.54	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Geronimo Wash (Continued)				Pima County Regional Flood Control District
South of Orange Grove Road	4,132	2,342 (4%), 6,592 (0.2%)	2.33	Special Study (#54)
@ Skyline Avenue	4,005	2,507 (4%), 5,680 (0.2%)	1.90	‘’
@ Ina Road	3,713	2,563 (4%), 5,206 (0.2%)	1.68	‘’
North of Calle Sin Desengana	2,411	1,711 (4%), 3,336 (0.2%)	0.99	‘’
Gibson Arroyo				FEMA, Flood Insurance
@West 2nd Avenue, Ajo Arizona[6]	2,400	920 (10%), 1,850 (2%), 4,750 (0.2%)	2.20	Study
@ State Highway 85, Ajo Arizona	3,990	1,560 (10%), 3,140 (2%), 4,200 (0.2%)	1.70	‘’
Golder Wash				Pima County Regional
@ Confluence with Southerland Wash	5,140	1,938 (10%)	3.7	Flood Control District Special Study (#9)
Green Valley Drainageways				Green Valley Drainage Inventory and Improvement Identification
#1 @ La Cañada Drive	667	374 (4%)	0.28	Report
@ Abrego Drive	1,069			La Joya Verde III Subdivision Plat, Book 57, Page 77

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Green Valley Drainageways (Continued)				Green Valley Drainage Inventory and Improvement Identification Report
#2 @ Santa Cruz River	564	367 (4%)	0.13	
#3 @ Interstate 19	2,674	1,524 (4%)	1.47	‘’
#4 @ La Cañada Drive	1,260	756 (4%)	0.46	‘’
@Confluence with Drainageway #3	2,340	1,370 (4%)	1.14	‘’
#5 @ Avenida Cabeza De Elefante	570	319 (4%)	0.23	‘’
#6 @ La Cañada Drive	2,592	1,452 (4%)	1.35	‘’
@ Abrego Drive	2,815	1,605 (4%)	1.47	‘’
#7 @ Esperanza Boulevard	729	416 (4%)	0.28	‘’
#8 @ Santa Cruz River	672			From Previous Discharge Table
#9 @ Camino Holgado	3,601			Green Valley Drainageway No. 9 Flood-Control Alternative Formulation Report
@ Interstate 19	3,181	1,781 (4%)	3.11	Green Valley Drainage Inventory and Improvement Identification Report

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Green Valley Drainageways (Continued)				Green Valley Drainage Inventory and Improvement Identification Report
#10 @ Santa Cruz River	108	70 (4%)	0.03	
#11 @ Santa Cruz River	290		0.07	From Previous Discharge Table
#12 @ Santa Cruz River	117	184 (4%)	1.35	Green Valley Drainage Inventory and Improvement Identification Report
#13 @ Abrego Drive	2,535	1,521 (4%)		‘’
#14 @ Santa Cruz River	170			From Previous Discharge Table
#15 @ Santa Cruz River	42	111 (4%)		Green Valley Drainage Inventory and Improvement Identification Report
#16 @ Santa Cruz River	271	176 (4%)		
#17 @ Camino Del Sol	1,132	645 (4%)	0.48	‘’
@ Continental Road	1,619	923 (4%)	0.84	‘’
@ Interstate 19	1,655	943 (4%)	0.88	‘’
#18 @ Santa Cruz River	210	137 (4%)	0.05	‘’
#19 @ Santa Cruz River	314	204 (4%)	0.07	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Green Valley Drainageways (Continued)				Green Valley Drainage Inventory and Improvement Identification Report
#20 @ Camino Del Sol	159	95 (4%)	0.04	
@ La Canada Dive	262	157 (4%)	0.10	‘’
#22 @ Interstate 19	339	203 (4%)	0.10	‘’
#23 @ Santa Cruz River	892			From Previous Discharge Table
#24 @ Santa Cruz River	1,160			‘’
#25 @ Santa Cruz River	1,150			‘’
Gunnery Range Wash				
@ at El Toro Road (multiple threads)	1,900	435 (10%), 867 (4%)	9.00	Lee Moore Wash Basin Management Study
@ South Section Line, Section 32, T16S, R14E	4,480	911 (10%), 1,948 (4%)	28.00	‘’
Hacienda Del Sol Wash @ Rillito Creek	806		0.66	Pima County Regional Flood Control District Special Study (#48).
Hardy Wash @ Camino De Oeste Road	4,536			From Previous Discharge Table
Hughes Wash				From Previous Discharge Table
@ Hughes Access Road	2,416			
@ Old Nogales Highway	7,946			‘’
@ Santa Cruz River	6,021			‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Idle Hour Wash				Within Hydrology Report for FEMA, Conditional Map Revision
Above Idle Hour East Wash Confluence	4,697		4.02	(10-09-3686R)
@ Silverbell Road	5,515		6.48	‘’
Indian Hills Wash				From Previous Discharge Table
@ Bear Canyon Road	1,935			
@ Catalina Highway	1,340			‘’
Ironwood Wash Upstream of the intersection of Neal Ave. and San Joaquin Rd.	2,985		3.19	Pima County Regional Flood Control District Special Study (#8)
Julian Wash[7]				
Approximately 950 feet upstream of Campbell Avenue	3,360		24.90	FEMA Map Revision (99-09-1084P)
Just downstream of Wilmot Road	2,270		16.50	‘’
King Canyon Wash				From Previous Discharge Table
@ Kinney Road	3,902			
Lee Moore Wash				
1,600 feet upstream of Petty Ranch Wash and downstream of Fagan Wash	19,210	4,159 (10%), 8,565 (4%)	115.00	Lee Moore Wash Basin Management Study
Lee Moore Wash breakout flow returning to Lee Moore Wash within Section 16, T14S, R30E	10,420	951 (10%), 3,313 (4%)	42.00	‘’
Downstream of Nogales Highway	20,210	4,445 (10%), 8,985 (4%)	121.00	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Lee Moore Wash (Continued) Upstream of Fagan Wash (breakout flow excluded)	3,560	1,620 (10%), 2,447 (4%)	29.00	‘’
Little Brawley Wash USGS Gage Station 09487100 (discontinued gage site)	13,800		11.9	USGS Water-Resources Investigations Open File Report 78-33 (March 1978)
Los Robles Wash Downstream of Confluence with Blanco Wash	37,000	14,500 (10%), 30,000 (2%), 74,000 (0.2%)	1,340	FEMA, Flood Insurance Study
@ Trico Road	35,000	14,000 (10%), 28,000 (2%), 70,000 (0.2%)	1,175	‘’
Mescal Arroyo @ Pantano Wash	12,000			From Previous Discharge Table
Millagrosa Hills Wash @ Confluence with Soldier Canyon Wash	1801		1.24	Pima County Regional Flood Control District Special Study (#33)
Mission Wash @ West side of San Xavier Estates	4,460		16.6	Pima County Regional Flood Control District Special Study (#40)
Monument Wash @ Speedway Boulevard	9,495			From Previous Discharge Table
Nanini Wash @ Rillito Creek	2,246		1.83	FEMA Conditional Map Revision (06-09-BG74R-Riverside Crossing III)
@La Cholla Boulevard	1,903		1.78	Pima County Regional Flood Control District Special Study (#74)
@ La Cañada Boulevard	1,831		1.04	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Old Grandad Tank Wash @ Tanque Verde Creek Confluence	3,942	2,723 (4%), 5,575 (0.2%)	2.02	Pima County Regional Flood Control District Special Study (#57)
Pantano Wash @ Craycroft Road	32,000	8,400 (10%), 20,000 (2%), 64,000 (0.2%)	604.0	FEMA, Flood Insurance Study
@ Houghton Road	31,000	8,100 (10%), 19,500 (2%), 62,000 (0.2%)	570.00	‘’
Upstream of Confluence with Rincon Creek	29,000	7,400 (10%), 17,500 (2%), 58,000 (0.2%)	475.00	‘’
Pegler Wash @ Rillito Creek	3,412			FEMA Map Revision (04-09-0465X)
@ Shannon Road	1,874			FEMA Map Revision (09-09-0020P)
Petty Ranch Wash 1,300 feet upstream of Lee Moore Wash	1,230	310 (10%), 488 (4%)	6.00	Lee Moore Wash Basin Management Study
Picture Rock Wash @ Picture Rocks Road	3,479			From Previous Discharge Table
Pima Wash Upstream of Confluence with Rillito Creek	5,300	1,800 (10%), 4,050 (2%), 10,700 (0.2%)	9.80	FEMA, Flood Insurance Study
Upstream of Confluence with Geronimo Wash	4,250	1,400 (10%), 3,200 (2%), 8,500 (0.2%)	6.30	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Pontotoc Canyon Wash				
@ Coronado National Forest Boundary	2,503		1.10	FEMA Map Revision (11-09-0275P)
Race Track Wash				
@ River Road	1,883	1,211 (4%), 2,830 (0.2%)	1.38	Pima County Regional Flood Control District Special Study (#71).
Between Camino Padre Isidoro and Calle de la Culebra	1,680	1,130 (4%), 2,420 (0.2%)	0.93	‘’
Rillito Creek				
Upstream of Confluence with Santa Cruz River	32,000	12,500 (10%), 23,000 (2%), 62,000 (0.2%)	935.00	FEMA, Flood Insurance Study
@ First Avenue	32,000	12,500 (10%), 24,000 (2%), 64,000 (0.2%)	892.00	‘’
Rincon Creek				
Upstream of Confluence with Pantano Wash	21,000	6,700 (10%), 16,000 (2%), 42,000 (0.2%)	81.10	FEMA, Flood Insurance Study
Upstream of Confluence with Coyote Wash	18,500	5,800 (10%), 14,000 (2%), 37,000 (0.2%)	60.70	‘’
At USGS Gaging Station at Sentinel Butte	16,000	5,000 (10%), 12,000 (2%), 32,000 (0.2%)	44.80	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Rinconado Wash @ Redington Road	949			From Previous Discharge Table
Roger Wash @ Silverbell Road	5,745		5.36	Pima County Regional Flood Control District Special Study (#65). Used in FEMA Map Revision (10-09-3256P)
Roller Coaster Wash @ La Cañada Road	1,383		0.95	FEMA Map Revision (13-09-2455P)
@ Oracle Jaynes Station Road	1,945		1.56	‘’
@ Rillito Creek	2,745		2.4	‘’
Sabino Creek Upstream of Confluence with Tanque Verde Creek	18,000	4,900 (10%), 12,000 (2%), 36,000 (0.2%)	66.40	FEMA, Flood Insurance Study
Upstream of Confluence with Bear Creek	12,500	3,750 (10%), 8,500 (2%), 25,000 (0.2%)	36.80	‘’
Saddle Brook Wash @ Confluence with Canada Del Oro[8]	1,014	1,479 (0.2%)	3.11	FEMA Map Revision (12-09-0547P)
Santa Cruz River @ Cortaro Road	70,000	21,800 (10%), 48,000 (2%), 107,400 (0.2%)	3,503.0	FEMA, Flood Insurance Study
Upstream of Confluence with Canada Del Oro Wash	70,000	21,800 (10%), 48,000 (2%), 107,400 (0.2%)	3,232.0	‘’
Upstream of Confluence with Rillito	60,000	16,800 (10%), 41,000	2,282.0	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Creek Santa Cruz River Continued		(2%), 93,000 (0.2%)		
@ Congress Street	60,000	16,800 (10%), 41,000 (2%), 93,000 (0.2%)	2,222.0	FEMA, Flood Insurance Study
@ Drexel Road	60,000	16,800 (10%), 41,000 (2%), 93,000 (0.2%)	2,101.0	‘’
@ Continental Road	45000		1,662.0	‘’
San Pedro River @ Redington Road	50,000			From Previous Discharge Table
Scott’s Knob Wash @ Tanque Verde Creek Confluence	6,790	4,325 (4%), 10,286 (0.2%)	5.05	Pima County Regional Flood Control District Special Study (#69)
Soldier Wash @ Catalina Highway	5,562		3.61	Pima County Regional Flood Control District Special Study (#18)
Sopori Wash @ U.S. Highway 89	19,900	6,700 (10%), 14,300 (2%), 47,860 (0.2%)	164.0	FEMA, Flood Insurance Study
Summit Wash @ Old Nogales Highway	603		1.20	Lee Moore Wash Basin Management Study
Sutherland Wash @ Northern boundary of Catalina State Park	13,656	4,507 (10), 7,315 (4%) 10,349 (2%), 19,550 (0.2%)	16.6	Pima County Regional Flood Control District Special Study (#9)

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Sutherland Wash (Continued) Near National Forest Service Boundary	12,752		11.6	Pima County Regional Flood Control District Special Study (#9)
At Confluence with Cañada Del Oro	154,518		40.89	Tech Memorandum for Canada Del Oro Wash Hydrology. Michel Baker Jr. 11/1/2008
Sweetwater Wash @ Silverbell Road	5,622		4.8	Pima County Regional Flood Control District Special Study (#66). Used in FEMA Map Revision (10-09-2793P)
Sycamore Canyon Wash Upstream of Wilmot Road	1,770	647 (10%), 1,041 (4%)	4.0	Lee Moore Wash Basin Management Study
Sycamore Canyon Wash Tributaries Sycamore Canyon "A" at Tatanka Lane	1,890	768 (10%), 1,301 (4%)	4.0	Lee Moore Wash Basin Management Study
Sycamore Canyon "C1" at Sahuarita Road	1,480	426 (10%), 761 (4%)	4.0	‘’
Sycamore Canyon "C2" @ Sahuarita Road	930	314 (10%), 528 (4%)	3.0	‘’
Tanque Verde Creek Upstream of Confluence with Rillito Creek	34,000	10,500 (10%), 24,000 (2%), 68,000 (0.2%)	241.0	FEMA, Flood Insurance Study

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Tanque Verde Creek (Continued)				
Upstream of Confluence with Sabino Creek	28,000	8,700 (10%), 20,000 (2%), 56,000 (0.2%)	149.0	FEMA, Flood Insurance Study
Near the confluence with the Agua Caliente Wash	23,000	7,300 (10%), 17,500 (2%), 46,000 (0.2%)	99.60	‘’
Upstream of Confluence with Canyon Del Salto	16,000	5,000 (10%), 12,500(2%), 32,000 (0.2%)	43.10	‘’
Tanuri Wash				
@ Tanque Verde Creek	2,409		1.80	Pima County Regional Flood Control District Special Study (#51).
Upstream of confluence with East Branch of Tanuri Wash	1,884		1.20	‘’
Tanuri Wash (East Branch)	1,092		0.50	‘’
Tortolita Fan [9] [10] (discharge values are at the fan apex of each subbasin)				Pima County Regional Flood Control District Special Study (#22)
@ Canada Agua Canyon East	3,623 (x-sec 2, T11,R13, Sec 21)			
@ Canada Agua Canyon West	1,030 (x-sec 2, T11,R13, Sec 29)			‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Tortolita Fan (Continued)[8 9]				
@ North Ranch	1,123 (x-sec 1, T11, R13, Sec 27)			Pima County Regional Flood Control District Special Study (#22)
@ Prospect Wash	5,912 prospect (x-sec 2, T11,R13, Sec 30)			‘’
Trails End Wash @ Silverbell Road	2,546		2.84	Pima County Regional Flood Control District Special Study (#60). Used in FEMA Map Revision (10-09-2498P)
Twenty-Seven Wash @ Oracle Road	3,690	1,849 (10%)	4.08	Pima County Regional Flood Control District Special Study (#22)
Unnamed Wash 1 @ Silverbell Road	1,229		0.81	Pima County Regional Flood Control District Special Study (#67). Used in FEMA Map Revision (10-09-3002P)
Unamend Wash at Hacienda Del Sol and River Roads @ River Road	690		0.36	Pima County Regional Flood Control District Special Study (#48)
Valencia Wash @ Valencia Road	5,310		2.52	FEMA Map Revision 13-09-0833P
Valley View Wash				Pima County Regional Flood Control District Special Study (#3)
Near River Road	3,514		4	
@ Flecha Drive	3,219		1.94	‘’

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Valley View Wash (Continued) @ Swan Road	2,802		1.42	Pima County Regional Flood Control District Special Study (#50)
Ventana Canyon Wash @ Confluence with Tanque Verde Creek	11,527	5,066 (10%), 9,030 (2%), 18,238 (0.2%)	16.64	Pima County Regional Flood Control District Special Study (#68). Used in FEMA Map Revision (09-09-2406P)
Ventana Canyon Wash (Continued) Downstream of River Road	12,058	5,325 (10%), 9,453 (2%), 19,072 (0.2%)	15.87	‘’
Upstream of Kolb Road	15,939	7,271 (10%), 12,547 (2%), 25,162 (0.2%)	14.14	‘’
Downstream of confluence with Esperero Wash	17,753	8,122 (10%), 14,053 (2%), 27,253 (0.2%)	14.1	‘’
Upstream of confluence with Esperero Wash	11,484	5,271 (10%), 9,151 (2%), 17,544 (0.2%)	7.94	‘’
Upstream of Sunrise Drive	12,044	5,378 (10%), 9,448 (2%), 17,805 (0.2%)	6.98	‘’
Upstream of Resort Drive	10,596	5,179 (10%), 8,813 (2%), 14,864 (0.2%)	3.85	‘’
Via Entrada Wash East Branch @ River Road	944		0.54	Pima County Regional Flood Control District Special Study (#77)

Watercourse	Regulatory Discharge[1] (1% Return Frequency)	Other Discharge Values (Return Frequencies)[2]	Drainage Area (sq. miles)	Source of Discharge Information
Via Entrada Wash West Branch @ River Road	1,630		0.67	Pima County Regional Flood Control District Special Study (#77).
Wentworth Wash Upstream of Speedway Boulevard	4,719	2,878 (4%), 7,347 (0.2%)	5.3	Pima County Regional Flood Control District Special Study (#58)
West Speedway Wash @ Silverbell Road	1,458		1.42	Pima County Regional Flood Control District Special Study (#62). Used in FEMA Map Revision (10-09-2567P)
Woodland Wash @ Sabino Creek	5,778	3,543 (4%), 9,134 (0.2%)	5.95	Pima County Regional Flood Control District Special Study (#53)
Wyoming Wash @ Mission Road	2,235			From Previous Discharge Table

[1] Often referred to as the 100-yr flood
[2] The 10% return is commonly referred to as the 10-yr flood. The 4% return is commonly referred to as the 25-yr flood. The 2% return is commonly referred to as the 50-yr flood. The 0.2% return is commonly referred to as the 500-yr flood.
[3] Flow reduced due to divergences at the split flow and spur flow reaches
[4] Road name is incorrect in FEMA's FIS report.
[5] Due to the natural variability of discharge values to fluctuate over time through a natural flow split, the discharge values were increased by 20% through each split flow path.
[6] Significant split flow reduces discharge in larger events
[7] Discharge values are lower due to regional detention basins
[8] There are 19 detention basins in the upstream watershed in Pinal County.
[9] Discharge values from cross section data at locations shown in Appendix C of Special Study 22, "Tortolita Area Basin Management Plan Phase IIB".
[10] The design storm and flow dynamics change as runoff proceeds downstream of the fan apexes towards the railroad. For more information on discharge values and flow distribution downstream of the apexes, refer to Marana's Tortolita Drainage Study, 2009.