



Water-Data Report 2012

**09490500 BLACK RIVER NEAR FORT APACHE, AZ**

Salt Basin  
Black Subbasin

LOCATION.--Lat 33°42'46", long 110°12'40" referenced to North American Datum of 1927, in NW ¼ sec.12, T.4 N., R.20 E., Gila County, AZ, Hydrologic Unit 15060101, on downstream side of first pier from right bank on highway bridge, 5 mi upstream from confluence with White River and 14 mi west of Fort Apache.(unsurveyed).

DRAINAGE AREA.--1232 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct. 1912 to Dec. 1915, Sept. 1916, Oct. 1917 to Jan. 1918, Apr. 1918, Oct. 1957 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1914-15, drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,345 ft above sea level, from river-profile map. Nov. 1912 to July 1918, nonrecording gages or water-stage recorders at several sites within 1 mi of present site at various datums.

REMARKS.--Records good. One transbasin diversion for industrial and municipal use (see record of Willow Creek diversion from Black River, near Morenci). Negligible storage in several small recreational lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,700 ft<sup>3</sup>/s, Jan. 8, 1993, gage height, 28.10 ft, from rating curve extended above 8,500 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 22.33 ft and 24.80 ft; minimum daily, 11 ft<sup>3</sup>/s, July 6, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharge, maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 17	0145	*903	*4.58

Minimum daily discharge, 19 ft<sup>3</sup>/s, June 24.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	41	37	53	78	132	224	493	84	28	24	57	84
2	42	34	68	80	132	235	465	79	27	21	48	74
3	41	33	63	84	123	232	430	74	26	21	40	64
4	43	33	67	88	121	206	380	70	24	23	35	58
5	50	42	61	91	109	203	336	67	23	30	33	53
6	77	46	61	92	107	216	304	63	22	47	32	54
7	160	44	48	91	103	243	283	60	22	51	34	64
8	111	48	e38	90	100	286	265	57	24	43	31	68
9	106	49	e40	90	98	283	247	56	20	40	31	67
10	93	48	57	86	99	264	234	55	20	40	33	88
11	81	46	63	81	96	235	227	54	21	39	41	88
12	72	41	79	82	105	214	219	53	25	38	39	94
13	66	42	92	76	117	208	207	52	25	37	29	98
14	61	43	126	68	132	242	199	48	24	32	25	116
15	56	44	121	62	135	299	189	45	23	28	23	152
16	52	46	91	295	141	351	181	41	23	42	24	124
17	49	47	83	651	132	403	185	39	23	92	28	102
18	47	46	99	317	133	463	181	37	23	65	37	88
19	45	44	327	210	132	498	155	35	22	48	43	77
20	44	43	354	164	124	343	139	34	23	42	64	68
21	41	43	296	147	125	300	129	33	22	44	81	62
22	37	44	204	142	123	349	121	36	21	50	93	55
23	36	44	162	144	114	410	116	35	21	47	160	50
24	35	45	121	140	123	551	113	33	19	48	205	47
25	37	43	e87	136	147	674	109	32	20	82	345	44
26	37	42	67	134	168	731	107	30	20	76	234	41
27	37	70	62	122	191	735	104	30	20	64	189	39
28	37	69	60	120	224	661	103	29	21	61	165	37
29	37	59	65	129	251	601	97	29	22	72	135	36
30	37	53	79	132	---	557	90	29	25	71	111	35
31	37	---	76	129	---	517	---	29	---	74	94	---
<b>Total</b>	1,745	1,368	3,270	4,351	3,837	11,734	6,408	1,448	679	1,492	2,539	2,127
<b>Mean</b>	56.3	45.6	105	140	132	379	214	46.7	22.6	48.1	81.9	70.9
<b>Max</b>	160	70	354	651	251	735	493	84	28	92	345	152
<b>Min</b>	35	33	38	62	96	203	90	29	19	21	23	35
<b>Ac-ft</b>	3,460	2,710	6,490	8,630	7,610	23,270	12,710	2,870	1,350	2,960	5,040	4,220
<b>Cfsm</b>	0.05	0.04	0.09	0.11	0.11	0.31	0.17	0.04	0.02	0.04	0.07	0.06
<b>In.</b>	0.05	0.04	0.10	0.13	0.12	0.35	0.19	0.04	0.02	0.05	0.08	0.06

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	183	140	313	413	579	983	1,024	424	95.6	89.7	203	144
<b>Max</b>	2,725	769	2,449	4,904	3,145	3,864	4,423	3,109	448	763	1,376	650
<b>(WY)</b>	(1984)	(1995)	(1979)	(1993)	(1980)	(1978)	(1915)	(1973)	(1973)	(1915)	(2006)	(1988)
<b>Min</b>	30.6	36.7	38.4	36.8	46.6	50.2	42.9	28.2	16.9	23.3	34.9	30.5
<b>(WY)</b>	(1974)	(1976)	(1977)	(1976)	(2006)	(1999)	(2002)	(2002)	(1974)	(1994)	(1975)	(1960)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1915 - 2012	
<b>Annual total</b>	29,544		40,998			
<b>Annual mean</b>	80.9		112		384	
<b>Highest annual mean</b>					1,200	1915
<b>Lowest annual mean</b>					52.6	2000
<b>Highest daily mean</b>	647	Aug 20	735	Mar 27	32,600	Jan 8, 1993
<b>Lowest daily mean</b>	21	Jun 29	19	Jun 24	11	Jul 6, 1974
<b>Annual seven-day minimum</b>	22	Jun 26	20	Jun 22	12	Jul 1, 1974
<b>Annual runoff (ac-ft)</b>	58,600		81,320		278,100	
<b>Annual runoff (cfsm)</b>	0.066		0.091		0.312	
<b>Annual runoff (inches)</b>	0.89		1.24		4.23	
<b>10 percent exceeds</b>	147		248		1,040	
<b>50 percent exceeds</b>	62		67		93	
<b>90 percent exceeds</b>	32		28		38	

