

Water-Data Report 2013

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

Upper Colorado-Dirty Devil Basin
Dirty Devil Subbasin

LOCATION.--Lat 38°05'39", long 110°24'24" referenced to North American Datum of 1927, in SE ¼ SW ¼ SE ¼ sec.20, T.31 S., R.14 E., Garfield County, UT, Hydrologic Unit 14070004, on right bank 0.25 mi upstream from Poison Spring Wash and 25.5 mi southeast of Hanksville.

DRAINAGE AREA.--4,159 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1948 to 1993, May 2001 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 3,850 ft above NGVD of 1929, from topographic map. Prior to July 15, 1964, at site 28 mi downstream at different datum. July 15, 1964 to December 14, 1976, approximately 1,200 ft upstream at datum 4.83 ft higher. December 15, 1976 to September 30, 1980 at site 400 ft upstream at datum 4.28 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s, Oct 7, 2006, gage height, 29.02 ft, from floodmarks, site and datum then in use, on basis of a slope-area measurement; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 9,540 ft³/s, Sep 11, gage height 16.80 ft; no flow on many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	83	104	e52	132	120	125	39	12	e0.00	33	109
2	17	83	104	e51	139	121	132	33	8.8	e0.00	474	318
3	19	84	104	e50	145	133	127	31	e6.6	e0.00	415	263
4	21	86	106	e53	139	139	128	30	e5.2	e0.00	99	184
5	18	83	107	e56	141	148	115	39	e4.6	e0.00	61	99
6	16	83	107	e60	141	145	105	41	3.4	7.3	36	74
7	15	84	107	e62	145	132	111	37	3.9	30	30	50
8	23	79	105	e65	148	132	115	61	2.4	13	19	35
9	38	82	104	e69	156	141	163	108	1.5	43	13	528
10	45	84	102	e72	143	216	149	118	1.0	30	9.5	321
11	49	81	95	e73	150	231	95	88	0.55	12	9.1	7,030
12	53	84	93	e65	137	167	88	73	0.37	6.0	11	4,390
13	1,950	83	97	e62	128	157	71	58	0.31	2.3	46	2,390
14	505	91	106	e58	134	153	75	46	0.29	1.1	74	2,200
15	166	88	115	e62	145	166	68	38	0.29	0.77	35	2,810
16	110	95	115	e69	137	171	68	30	0.27	0.68	25	e1,650
17	100	96	115	e78	134	176	74	24	0.26	0.62	14	e300
18	85	100	114	e89	137	159	70	24	0.23	43	7.8	e200
19	83	104	e104	e90	133	157	75	28	0.21	33	4.7	e140
20	81	104	e75	e100	130	150	72	26	0.21	130	3.4	e130
21	79	101	e55	e112	132	156	69	27	0.19	73	2.3	124
22	79	102	e54	e126	128	134	63	27	0.17	28	1.6	138
23	79	102	e36	e126	122	135	58	21	0.14	12	1.1	169
24	76	103	e48	134	126	133	55	16	e0.09	5.9	2.9	143
25	73	101	e52	145	129	128	54	10	e0.04	2.3	e900	107
26	77	100	e54	162	118	120	53	8.5	e0.02	1.1	e339	97
27	84	100	e54	171	123	133	50	e7.2	e0.02	1.8	e228	91
28	83	101	e53	174	123	132	44	6.9	e0.00	4.7	e235	87
29	88	100	e51	174	---	118	41	7.8	e0.00	1.9	e200	88
30	89	101	e51	164	---	121	42	9.2	e0.00	200	102	85
31	90	---	e52	151	---	127	---	12	---	79	57	---
Total	4,311	2,768	2,639	2,975	3,795	4,551	2,555	1,124.6	53.06	762.47	3,488.4	24,350
Mean	139	92.3	85.1	96.0	136	147	85.2	36.3	1.77	24.6	113	812
Max	1,950	104	115	174	156	231	163	118	12	200	900	7,030
Min	15	79	36	50	118	118	41	6.9	0.00	0.00	1.1	35
Ac-ft	8,550	5,490	5,230	5,900	7,530	9,030	5,070	2,230	105	1,510	6,920	48,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949-93, 2002-13, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	127	123	92.5	97.8	133	138	105	80.5	68.5	54.4	90.7	97.3
Max	1,459	1,059	174	207	277	320	384	280	549	277	538	812
(WY)	(2007)	(1958)	(1985)	(2005)	(1978)	(1949)	(1985)	(1958)	(1983)	(1950)	(1957)	(2013)
Min	25.6	52.5	22.8	29.6	43.5	68.9	15.8	1.34	0.00	0.00	0.16	0.23
(WY)	(1956)	(1978)	(1979)	(2007)	(1979)	(1967)	(1967)	(1972)	(1977)	(1991)	(1960)	(1979)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949-93, 2002-13	
Annual total	32,421.72		53,372.53			
Annual mean	88.6		146		101	
Highest annual mean					250	1958
Lowest annual mean					51.1	1956
Highest daily mean	1,950	Oct 13	7,030	Sep 11	26,900	Oct 7, 2006
Lowest daily mean	0.00	Jun 27	0.00	Jun 28	0.00	Jun 5, 1954
Annual seven-day minimum	0.00	Jun 27	0.00	Jun 28	0.00	Jul 1, 1960
Annual runoff (ac-ft)	64,310		105,900		72,940	
10 percent exceeds	138		162		172	
50 percent exceeds	84		83		78	
90 percent exceeds	3.2		2.1		2.5	

