01434092 SHELTER CREEK BELOW DRY CREEK NEAR FROST VALLEY, NY

Upper Delaware Basin
Middle Delaware-Mongaup-Brodhead Subbasin

LOCATION.--Lat 41°58′12″, long 74°30′53″ referenced to North American Datum of 1927, Ulster County, NY, Hydrologic Unit 02040104, on right bank about 50 ft downstream from Dry Creek, and 1.2 mi south of Frost Valley.

DRAINAGE AREA.--0.62 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.-- Occasional miscellaneous measurements 1992. October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,140 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 220 ft^3/s, Apr. 2, 2005, gage height, 3.19 ft, from rating curve extended above 26 ft^3/s on basis of runoff comparisons with nearby stations; minimum discharge, 0.037 ft^3/s, Sept. 10, 2002; minimum gage height, 0.67 ft, Sept. 13, 17, 18, 19, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft^3/s, Sept. 11, gage height, 1.80 ft, from rating curve extended as explained above; minimum discharge, 0.13 ft^3/s, Mar. 7, result of freezeup, gage height, 0.74 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.8	3.6	4.0	4.1	0.77	0.35	4.1	2.4	0.50	0.30	0.26	0.34
2	2.7	4.8	2.4	2.6	0.76	e2.9	5.1	2.3	0.97	0.28	0.24	0.32
3	2.5	3.3	1.9	2.3	0.73	1.3	4.4	2.0	0.83	0.28	0.23	0.32
4	2.4	2.7	1.8	2.2	0.69	0.70	4.9	1.9	3.3	1.5	0.21	0.31
5	2.3	2.5	1.8	2.9	0.64	0.58	4.0	1.8	1.0	0.95	0.21	0.30
6	2.1	2.4	1.8	9.0	0.63	e0.52	3.0	1.6	0.65	0.47	0.24	0.30
7	1.9	2.2	1.8	4.8	0.59	e0.47	2.6	1.4	0.58	0.36	0.23	0.30
8	1.7	8.1	1.6	15	0.56	e0.43	2.3	1.3	0.56	0.32	1.1	0.32
9	1.6	5.5	1.5	8.3	0.54	0.40	2.1	1.2	0.53	0.43	0.31	0.35
10	1.4	3.9	1.4	5.0	0.51	0.64	1.9	1.3	0.54	0.31	3.2	0.32
11	1.8	3.4	1.3	3.6	0.51	1.3	1.7	2.0	0.52	0.35	0.60	5.2
12	3.1	3.2	1.2	2.8	0.48	0.74	1.9	1.2	0.54	0.31	0.39	0.56
13	1.8	3.0	1.9	2.8	0.48	1.1	1.7	e1.1	0.51	0.27	0.34	0.38
14	1.6	3.1	1.4	3.3	0.48	4.7	1.6	0.99	0.47	0.25	0.32	0.38
15	1.5	2.5	1.2	7.3	0.48	11	11	0.99	0.46	0.29	0.32	0.77
16	1.5	12	1.1	5.8	0.45	4.9	28	1.0	0.50	0.25	1.0	0.42
17	5.1	15	1.1	3.9	0.44	3.7	12	0.92	0.45	0.22	0.64	0.39
18	7.9	7.0	1.0	3.4	0.43	2.3	8.2	0.88	0.41	0.48	0.43	0.38
19	4.1	4.6	0.97	2.8	0.41	2.1	10	1.1	1.3	0.55	0.38	0.37
20	18	3.4	0.94	2.4	0.41	1.9	11	1.1	0.88	0.40	0.41	0.36
21	8.0	2.7	0.89	2.3	0.41	1.7	9.9	0.83	0.47	0.27	0.93	0.36
22	5.0	2.5	1.3	2.1	0.40	2.8	8.2	0.74	0.43	0.23	0.56	0.38
23	3.9	2.4	4.2	1.9	0.38	4.5	6.1	0.70	0.39	0.80	0.51	0.33
24	3.2	2.1	1.9	1.7	0.38	4.5	4.8	0.68	0.37	0.50	0.51	0.31
25	2.9	1.8	1.9	1.5	0.37	6.8	5.0	0.63	0.36	0.28	0.47	0.31
26	2.5	1.8	3.6	1.2	0.36	6.3	4.3	0.60	0.34	0.25	0.46	0.31
27	2.2	1.6	2.6	1.1	0.35	14	4.8	0.59	0.36	0.37	0.43	0.52
28	26	1.5	2.4	1.0	0.35	15	3.6	0.62	0.38	0.76	0.42	0.36
29	12	1.4	2.2	0.94	---	8.9	2.9	0.53	0.32	1.3	0.39	0.31
30	6.0	1.3	2.1	0.81	---	6.0	2.7	0.50	0.29	0.50	0.38	0.30
31	4.4	---	1.9	e0.79	---	4.9	---	0.49	---	0.30	0.38	---
Total	146.9	115.3	57.10	109.64	13.99	117.43	173.8	35.39	19.21	14.13	16.50	15.88
Mean	4.74	3.84	1.84	3.54	0.50	3.79	5.79	1.14	0.64	0.46	0.53	0.53
Max	26	15	4.2	15	0.77	15	28	2.4	3.3	1.5	3.2	5.2
Min	1.4	1.3	0.89	0.79	0.35	0.35	1.6	0.49	0.29	0.22	0.21	0.30
Cfsm	7.64	6.20	2.97	5.70	0.81	6.11	9.34	1.84	1.03	0.74	0.86	0.85
In.	8.81	6.92	3.43	6.58	0.84	7.05	10.43	2.12	1.15	0.85	0.99	0.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.19	2.45	2.29	2.46	1.20	2.66	4.22	2.11	1.77	1.20	0.94	1.32
Max	5.93	3.84	5.00	5.44	2.46	4.95	8.85	4.23	4.35	3.66	3.93	5.13
(WY)	(2006)	(2007)	(1997)	(1996)	(1996)	(2003)	(1993)	(1998)	(2006)	(2004)	(2003)	(2003)
Min	0.23	0.36	0.68	0.53	0.40	0.71	1.84	0.82	0.41	0.24	0.10	0.17
(WY)	(2002)	(2002)	(1996)	(2001)	(2004)	(2006)	(1995)	(2001)	(2005)	(1993)	(1993)	(1998)

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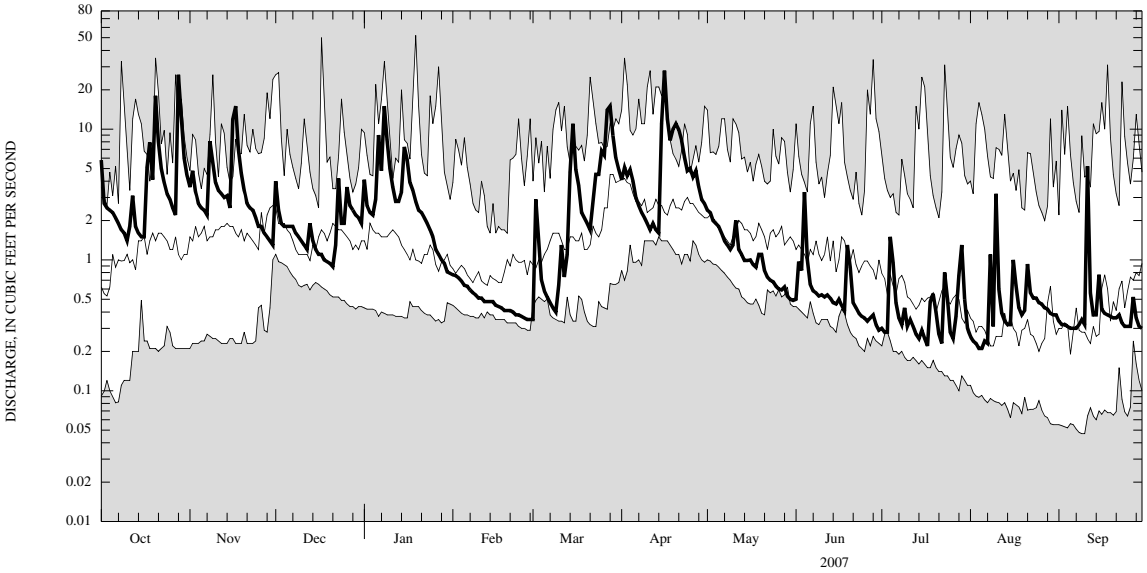
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1993 - 2007	
Annual total	941.79		835.27			
Annual mean	2.58		2.29		2.07	
Highest annual mean					2.86	2004
Lowest annual mean					1.34	1999
Highest daily mean	34	Jun 28	28	Apr 16	52	Jan 19, 1996
Lowest daily mean	0.24	Aug 18	0.21	Aug 4	0.047	Sep 9, 2002
Annual seven-day minimum	0.28	Aug 12	0.23	Aug 1	0.054	Sep 5, 2002
Annual runoff (cfsm)	4.16		3.69		3.34	
Annual runoff (inches)	56.51		50.12		45.38	
10 percent exceeds	5.0		5.0		4.4	
50 percent exceeds	1.7		1.1		1.2	
90 percent exceeds	0.58		0.32		0.25	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.