

01421900 WEST BRANCH DELAWARE RIVER UPSTREAM FROM DELHI, NY

Upper Delaware Basin
Upper Delaware Subbasin

LOCATION.--Lat 42°16'49", long 74°54'27" referenced to North American Datum of 1927, Delaware County, NY, Hydrologic Unit 02040101, on left bank along County Highway 18, 0.6 mi upstream from State Highway 28 bridge in Delhi, and 1.9 mi upstream from Little Delaware River.

DRAINAGE AREA.--134 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1937 to September 1970, December 1996 to current year. Water years 1972-74, 1996 (annual maximum only), November 1996 (maximum only). Prior to November 1996, published as West Branch Delaware River at Delhi (01422000).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,351.31 ft above NGVD of 1929. Prior to October 1996, at site 0.9 mi downstream at datum 1,345.29 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 13,000 ft³/s, Jan. 19, 1996, gage height, 9.8 ft, from floodmark, from rating curve extended above 4,800 ft³/s on basis of velocity-area studies, at site and datum then in use; maximum gage height, 12.24 ft, Nov. 9, 1996, from crest-stage gage; minimum discharge, 2.6 ft³/s, Sept. 25, 1964; minimum gage height recorded since December 1996, 1.75 ft, Sept. 11, 12, 13, Nov. 19, 2001, Sept. 23, 24, 25, 26, 2005, but may have been less during period of estimated record Sept. 21-24, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 28	1915	2,040	6.01
Jan 26	0030	4,330	8.55
Mar 15	2315	2,280	6.31
Mar 23	0945	*5,310	*9.49
Mar 31	0200	2,820	6.94

Minimum discharge, 20 ft³/s, Sept. 26, 27, gage height, 1.95 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	132	595	181	270	e321	91	1,240	206	76	52	39	63
2	122	443	160	235	e290	85	961	189	92	47	38	57
3	138	388	424	172	267	87	809	182	68	44	35	52
4	143	337	308	208	239	84	675	176	61	40	34	49
5	115	309	278	200	e219	83	554	172	60	37	68	46
6	105	306	283	199	e196	79	480	157	224	35	85	42
7	136	265	255	193	e176	86	407	137	176	33	47	39
8	133	239	243	177	160	113	340	298	90	31	38	37
9	115	214	254	155	153	146	487	205	84	29	35	40
10	127	197	299	e135	e144	184	333	162	119	87	51	43
11	113	180	217	e130	e137	331	273	140	86	100	48	40
12	103	168	204	e130	e126	759	238	209	89	53	39	36
13	110	164	272	e123	e115	970	217	182	232	43	53	38
14	110	160	481	e120	113	1,350	197	301	131	43	42	39
15	100	157	397	e117	110	1,820	178	207	116	40	37	36
16	99	146	379	115	108	1,830	182	181	99	37	40	33
17	96	136	293	e113	105	1,520	288	172	151	51	57	35
18	89	125	278	e140	101	1,480	208	169	120	143	41	34
19	85	120	e267	142	97	1,500	185	199	95	80	35	31
20	82	364	e252	130	93	1,530	163	171	85	69	39	29
21	79	236	237	121	90	1,540	151	143	77	56	38	27
22	77	188	217	e103	87	1,590	141	128	73	65	86	26
23	78	178	186	e96	87	4,050	129	122	85	78	390	25
24	702	176	174	e97	92	2,080	119	113	70	182	270	25
25	766	170	168	2,060	e88	1,290	168	101	69	93	180	23
26	452	168	220	2,260	e75	1,210	221	94	60	73	155	21
27	e368	162	663	1,070	113	815	383	88	61	61	123	22
28	1,090	201	384	733	99	652	269	90	85	54	102	31
29	938	190	260	485	---	759	247	80	86	50	88	56
30	694	179	263	404	---	1,110	217	73	64	45	78	186
31	601	---	291	e359	---	2,040	---	67	---	42	71	---
Total	8,098	6,861	8,788	10,992	4,001	31,264	10,460	4,914	2,984	1,893	2,482	1,261
Mean	261	229	283	355	143	1,009	349	159	99.5	61.1	80.1	42.0
Max	1,090	595	663	2,260	321	4,050	1,240	301	232	182	390	186
Min	77	120	160	96	75	79	119	67	60	29	34	21
Cfsm	1.95	1.71	2.12	2.65	1.07	7.53	2.60	1.18	0.74	0.46	0.60	0.31
In.	2.25	1.90	2.44	3.05	1.11	8.68	2.90	1.36	0.83	0.53	0.69	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	116	242	286	276	273	499	532	264	167	90.3	69.9	91.9
Max	492	552	672	708	632	1,009	1,322	637	757	283	427	544
(WY)	(1956)	(2004)	(2004)	(1998)	(2008)	(2010)	(1958)	(1943)	(2006)	(2009)	(1955)	(1938)
Min	6.14	6.83	45.0	40.9	59.9	137	146	79.2	25.8	15.5	8.52	4.03
(WY)	(1965)	(1965)	(1999)	(1961)	(2004)	(1965)	(1946)	(2001)	(1964)	(1962)	(1964)	(1964)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1937 - 2010	
Annual total	93,363		93,998			
Annual mean	256		258		241	
Highest annual mean					341 2004	
Lowest annual mean					112 1965	
Highest daily mean	2,110	Mar 9	4,050	Mar 23	6,380	Jun 28, 2006
Lowest daily mean	46	Sep 22	21	Sep 26	3.0	Sep 24, 1964
Annual seven-day minimum	53	Sep 17	24	Sep 21	3.3	Sep 20, 1964
Annual runoff (cfsm)	1.91		1.92		1.80	
Annual runoff (inches)	25.92		26.09		24.47	
10 percent exceeds	452		570		556	
50 percent exceeds	179		135		130	
90 percent exceeds	90		40		21	

