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 mi^2.

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 ft^3/s, Jan. 19, 1996, gage height, 9.8 ft, from floodmark, from rating curve extended above 4,800 ft^3/s on basis of velocity-area studies, at site and datum then in use; maximum gage height, 12.53 ft, Aug. 28, 2011; minimum discharge, 2.6 ft^3/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 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	1145	8,710	12.41
Dec 1	2315	2,040	6.01
Mar 6	2000	4,120	8.34
Mar 11	1245	4,970	9.17
Apr 28	1630	3,240	7.41
Aug 28	1930	*8,860	*12.53
Sep 7	1745	7,010	11.01

Minimum discharge, 32 ft^3/s, Aug. 14, gage height, 2.10 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01421900, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01421900.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,950	241	794	194	e71	560	e237	779	165	188	39	527
2	2,210	216	990	404	e77	353	246	625	144	169	36	397
3	1,010	198	606	258	e77	298	223	549	128	611	36	313
4	709	323	516	212	e75	289	503	1,420	116	659	43	283
5	982	486	432	e205	e105	370	1,240	956	109	308	38	1,070
6	649	322	383	e199	e208	2,780	1,030	727	103	242	44	1,430
7	696	276	333	e196	e143	2,480	834	611	92	227	77	4,120
8	514	278	289	e187	e116	1,420	654	519	85	182	55	4,400
9	405	318	246	177	e102	1,000	558	433	121	164	55	2,230
10	335	415	221	161	e100	1,170	506	357	138	133	64	1,230
11	293	335	219	165	e97	3,940	511	305	154	119	46	814
12	259	281	348	150	e93	2,280	574	265	247	108	38	607
13	222	268	721	141	e91	1,480	571	236	154	98	34	453
14	198	255	374	e130	e90	1,020	488	229	133	89	32	351
15	551	239	318	e124	e92	795	381	247	130	79	79	356
16	913	226	313	e118	e102	761	356	430	134	71	219	312
17	513	531	305	e117	152	820	871	445	111	66	117	233
18	434	402	257	e137	452	1,100	560	368	142	64	75	198
19	372	357	229	e207	687	1,100	536	670	108	72	61	172
20	322	325	221	e154	409	860	569	712	92	60	53	167
21	294	294	192	e127	e337	757	463	682	86	53	50	156
22	289	273	179	e107	e296	731	399	542	208	48	79	145
23	249	266	169	e99	e262	567	591	471	484	44	60	171
24	220	256	158	e92	e242	501	514	411	313	42	48	258
25	201	220	148	e90	266	435	487	344	337	44	165	171
26	304	416	138	e93	252	349	1,190	287	250	86	420	140
27	583	302	115	e91	222	303	1,290	378	208	96	151	141
28	360	249	e119	e84	438	269	2,130	307	193	60	4,110	355
29	317	233	e116	e80	---	248	1,470	238	428	50	3,650	492
30	304	226	e108	e75	---	233	1,090	210	233	50	1,250	601
31	272	---	113	e72	---	e239	---	183	---	43	743	---
Total	20,930	9,027	9,670	4,646	5,654	29,508	21,072	14,936	5,346	4,325	11,967	22,293
Mean	675	301	312	150	202	952	702	482	178	140	386	743
Max	5,950	531	990	404	687	3,940	2,130	1,420	484	659	4,110	4,400
Min	198	198	108	72	71	233	223	183	85	42	32	140
Cfsm	5.04	2.25	2.33	1.12	1.51	7.10	5.24	3.60	1.33	1.04	2.88	5.55
In.	5.81	2.51	2.68	1.29	1.57	8.19	5.85	4.15	1.48	1.20	3.32	6.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	128	244	287	274	271	508	536	268	167	91.3	76.3	105
Max	675	552	672	708	632	1,009	1,322	637	757	283	427	743
(WY)	(2011)	(2004)	(2004)	(1998)	(2008)	(2010)	(1958)	(1943)	(2006)	(2009)	(1955)	(2011)
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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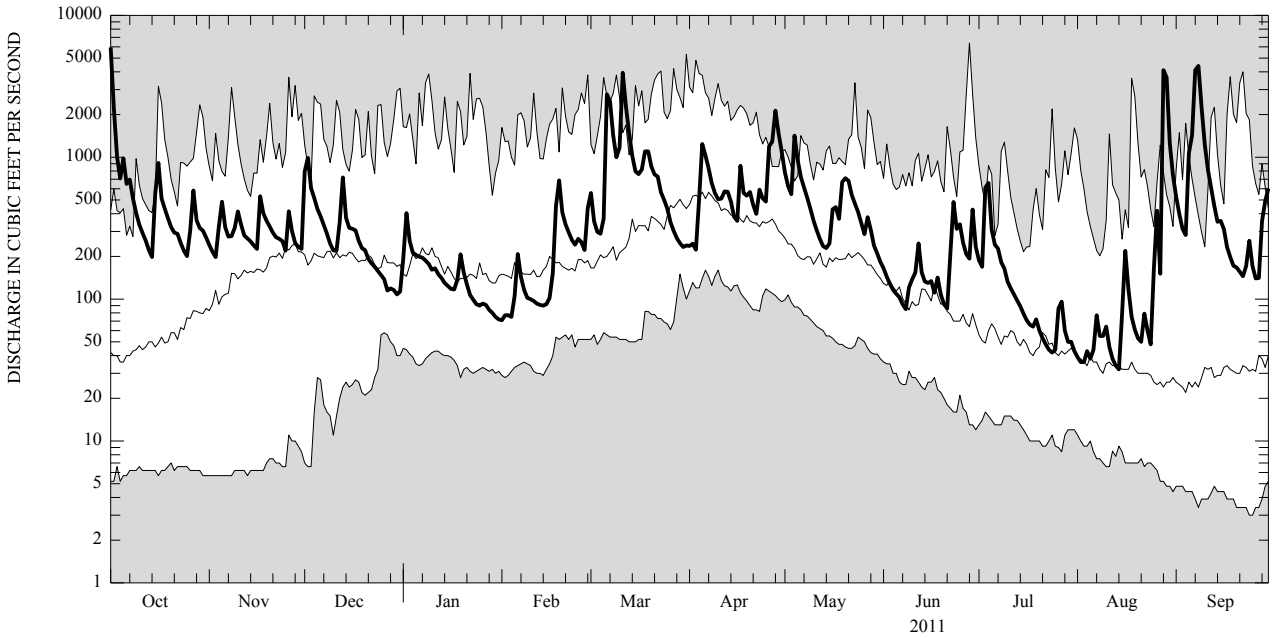
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1937 - 2011	
Annual total	109,878		159,374			
Annual mean	301		437		246	
Highest annual mean					437	2011
Lowest annual mean					112	1965
Highest daily mean	5,950	Oct 1	5,950	Oct 1	6,380	Jun 28, 2006
Lowest daily mean	21	Sep 26	32	Aug 14	3.0	Sep 24, 1964
Annual seven-day minimum	24	Sep 21	40	Jul 31	3.3	Sep 20, 1964
Annual runoff (cfsm)	2.25		3.26		1.83	
Annual runoff (inches)	30.50		44.24		24.89	
10 percent exceeds	683		864		562	
50 percent exceeds	155		256		134	
90 percent exceeds	40		75		21	



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.