

Water-Data Report 2009

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°57'22", long 74°37'40" referenced to North American Datum of 1983, Pemberton Township, Burlington County, NJ, Hydrologic Unit 02040202, on right bank, 50 ft upstream of bridge on Fourmile Road (County Route 646), 0.1 mi south of New Lisbon, 0.7 mi upstream from mouth, and 3.1 mi east of Pemberton.

DRAINAGE AREA.--77.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional miscellaneous discharge measurements, water years 1954, 1973. May 1998 to current year.

REVISED RECORDS.--WDR NJ-03-1: 1998 (M), 2003. WDR NJ-04-1: 2003 (M)

GAGE.--Water-stage and precipitation recorder. Datum of gage is 34.18 ft above NAVD of 1988.

REMARKS.--Records good, except for estimated daily discharges and discharges above 200 ft³/s, which are fair. Water diverted for water supply upstream of gage. Several measurements of water temperature were made during the year. Satellite telemetry at station.

01466900 GREENWOOD BRANCH AT NEW LISBON, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	26	35	61	79	108	67	74	69	63	64	97	79
2	26	35	60	75	102	74	89	71	58	65	111	66
3	25	32	59	72	100	79	91	76	54	54	132	59
4	25	31	61	71	100	78	92	87	53	51	141	54
5	25	41	50	70	100	75	92	103	62	44	121	50
6	25	52	47	70	95	75	94	122	81	41	93	47
7	25	54	47	101	92	82	123	165	92	40	76	45
8	26	45	45	217	93	88	164	191	87	39	66	44
9	26	42	43	260	92	87	154	191	70	38	67	46
10	25	39	44	203	82	84	123	179	72	39	79	43
11	23	37	55	184	66	81	107	154	73	39	77	71
12	24	39	125	175	65	78	117	130	82	49	66	119
13	24	44	249	162	65	74	147	102	92	50	66	155
14	25	56	252	141	68	72	150	87	96	49	79	147
15	22	61	198	124	71	68	143	91	90	44	99	126
16	21	73	181	112	72	66	158	101	79	40	95	103
17	25	76	160	e105	70	64	171	100	68	45	82	84
18	27	74	157	99	69	63	165	93	69	46	65	73
19	26	63	155	93	71	61	143	87	82	41	59	70
20	23	63	175	92	71	61	127	81	94	39	58	69
21	27	61	201	89	68	61	134	69	98	41	55	66
22	30	48	191	84	67	60	140	68	106	49	63	60
23	34	42	173	83	67	58	140	66	104	64	84	56
24	34	39	154	82	66	56	132	60	96	91	103	59
25	33	47	138	80	65	55	118	61	86	123	96	63
26	39	51	136	78	64	55	107	64	75	117	77	59
27	34	49	129	77	64	59	106	64	75	90	63	67
28	35	47	118	81	63	61	93	61	81	67	64	82
29	43	43	107	109	---	66	77	64	77	60	89	82
30	40	45	98	127	---	71	71	69	71	70	94	69
31	40	---	88	119	---	72	---	67	---	81	90	---
Total	883	1,464	3,757	3,514	2,176	2,151	3,642	2,993	2,386	1,770	2,607	2,213
Mean	28.5	48.8	121	113	77.7	69.4	121	96.5	79.5	57.1	84.1	73.8
Max	43	76	252	260	108	88	171	191	106	123	141	155
Min	21	31	43	70	63	55	71	60	53	38	55	43

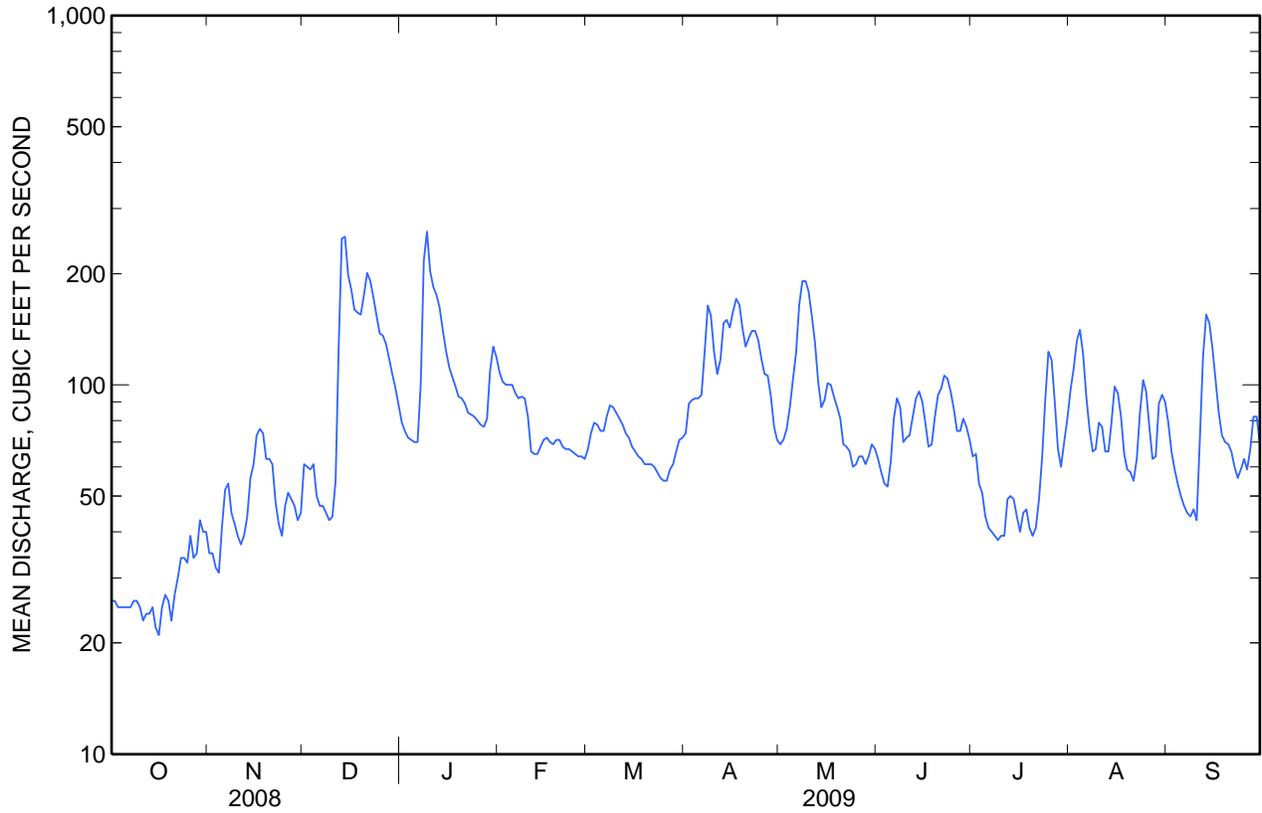
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	67.2	85.1	95.9	114	112	119	132	85.7	73.7	63.8	56.4	60.3
Max	132	192	164	182	144	184	233	109	162	204	118	121
(WY)	(2006)	(2007)	(2004)	(2006)	(2005)	(2003)	(2007)	(2005)	(2003)	(2004)	(2004)	(1999)
Min	28.5	34.6	29.3	42.4	37.2	48.3	61.8	60.4	39.0	27.6	21.8	27.0
(WY)	(2009)	(1999)	(1999)	(2002)	(2002)	(2002)	(2002)	(2002)	(1999)	(2002)	(2002)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1998 - 2009	
Annual total	26,535		29,556			
Annual mean	72.5		81.0		88.9	
Highest annual mean					125	2004
Lowest annual mean					40.7	2002
Highest daily mean	252	Dec 14	260	Jan 9	925	Jul 14, 2004
Lowest daily mean	20	Sep 23	21	Oct 16	17	Aug 4, 1999
Annual seven-day minimum	22	Sep 19	23	Oct 10	18	Aug 15, 2002
Maximum peak flow			290	Jan 9	1,080	Jul 13, 2004
Maximum peak stage			3.40	Jan 9	8.91	Jul 13, 2004
Instantaneous low flow			20	Oct 15, 16	15	Aug 16, 2002
10 percent exceeds	136		140		155	
50 percent exceeds	59		71		77	
90 percent exceeds	25		39		32	



01466900 GREENWOOD BRANCH AT NEW LISBON, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2001 to current year.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 19.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue, were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Instan- taneous dis- charge, ft ³ /s (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm @ 25 degC (00095)	Temper- ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)
Dec 01...	1045	749	10.0	.199	.153	62	10.5	86	4.4	69	6.9	2.1	49
Feb 24...	1015	770	-2.0	.277	.213	66	12.6	92	4.2	62	2.4	3.9	33
May 12...	1015	761	19.5	.787	.614	132	7.1	71	4.3	54	15.4	2.5	39
Sep 03...	1000	764	20.0	.793	.631	60	7.6	81	4.5	49	18.3	4.4	46

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Dec 01...	7	3	1.39	.810	1.33	5.80	1.1	9.21	<.08	<.04	6.0	9.74	.16
Feb 24...	6	2	1.14	.657	.78	5.42	.6	7.78	<.08	<.04	5.0	7.69	.20
May 12...	4	2	.81	.476	.66	3.76	1.2	6.28	<.08	<.04	3.5	5.28	.38
Sep 03...	5	2	.94	.526	.71	4.20	2.4	7.71	<.08	<.04	5.7	4.43	.38

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Dec										
01...	.012	.09	E.008	.06	.011	.029	.25	.31	1.07	4.5
Feb										
24...	.019	.07	.011	.04	.016	.026	.28	.32	.57	5.7
May										
12...	E.009	E.03	.011	.07	.026	.042	E.41	E.49	1.17	13.4
Sep										
03...	.013	.06	.018	.14	.037	.083	.44	.58	2.43	11.9