

01467000 NORTH BRANCH RANCOCAS CREEK AT PEMBERTON, NJ

LOCATION.--Lat 39°58'12", long 74°41'04", Burlington County, Hydrologic Unit 02040202, on right bank at downstream side of bridge on Hanover Street (County Route 616) in Pemberton, 12 mi upstream from confluence with South Branch Rancocas Creek.

DRAINAGE AREA.--118 mi².

PERIOD OF RECORD.--September 1921 to current year.

REVISED RECORDS.--WSP 1302: 1922-23. WSP 1382: 1933. WDR NJ-82-2: Drainage area. WDR NJ-05-01: 2004(M)

GAGE.--Water-stage recorder above concrete dams. Datum of gage is 31.19 ft above NGVD of 1929. Prior to June 9, 1923, nonrecording gage and June 9, 1923 to Aug. 9, 1951, water-stage recorder at site 600 ft downstream at datum 6.54 ft lower.

REMARKS.--Records good. Flow regulated occasionally by cranberry bogs and ponds above station. Water diverted for water supply at Fort Dix army base upstream from gage. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

REVISIONS.--The maximum discharge for water year 2004 has been revised to 1,840 ft³/s, July 14, 2004, gage height 4.19 ft; revised daily discharges for water year 2004 are given below. These figures supersede those published in the annual data report for 2004.

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
July 13, 2004	1,450	July 14, 2004	1,640
July 2004	TOTAL 10,349		MEAN 334
Water Year 2004	75,055		MAX 1,640

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	158	342	178	178	233	369	229	122	284	74	60
2	268	155	366	171	174	241	364	252	116	451	73	50
3	297	145	360	169	169	241	495	239	112	359	69	50
4	257	145	326	173	173	228	539	217	146	276	66	49
5	204	224	287	198	190	214	486	191	153	205	70	48
6	166	216	251	251	202	204	408	169	148	171	66	48
7	146	210	251	264	212	202	348	160	382	166	61	49
8	127	195	288	268	223	221	359	159	408	251	130	49
9	112	179	291	269	235	259	441	157	276	308	107	49
10	111	166	328	256	260	270	472	152	199	275	102	46
11	116	156	347	251	277	277	428	143	157	206	86	45
12	114	169	322	274	266	277	390	136	142	151	76	46
13	104	291	285	277	249	268	348	129	131	127	69	48
14	104	305	243	328	240	259	326	120	120	177	66	49
15	112	315	212	449	351	241	301	114	107	205	93	59
16	120	293	191	446	395	223	247	111	105	204	83	121
17	117	255	182	398	393	212	216	111	106	199	85	75
18	110	230	176	348	363	201	211	109	99	194	73	60
19	154	223	173	305	325	189	193	105	95	195	70	56
20	197	211	166	280	291	183	180	118	89	195	73	56
21	212	182	155	186	267	186	167	182	88	152	71	55
22	222	169	151	187	276	184	157	186	84	127	66	52
23	210	160	160	208	277	195	154	179	83	111	63	49
24	191	161	224	220	262	275	161	172	80	93	61	49
25	175	172	224	221	251	304	173	163	79	87	59	49
26	164	174	216	214	247	303	175	175	73	83	54	49
27	159	168	208	209	240	286	174	185	110	82	53	51
28	152	233	199	197	233	309	178	178	190	89	54	48
29	148	287	194	193	---	435	169	163	164	82	57	46
30	148	311	191	189	---	456	165	148	243	80	64	48
31	148	---	184	180	---	418	---	135	---	79	68	---
TOTAL	5,148	6,258	7,493	7,757	7,219	7,994	8,794	4,987	4,407	5,664	2,262	1,609
MEAN	166	209	242	250	258	258	293	161	147	183	73.0	53.6
MAX	297	315	366	449	395	456	539	252	408	451	130	121
MIN	104	145	151	169	169	183	154	105	73	79	53	45
CFSM	1.41	1.77	2.05	2.12	2.18	2.19	2.48	1.36	1.24	1.55	0.62	0.45
IN.	1.62	1.97	2.36	2.45	2.28	2.52	2.77	1.57	1.39	1.79	0.71	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2005, BY WATER YEAR (WY)

MEAN	117	150	173	198	215	247	238	193	142	123	129	115
MAX	365	430	434	479	445	472	475	475	297	401	426	341
(WY)	(1928)	(1973)	(1973)	(1979)	(1939)	(1994)	(1984)	(1998)	(1968)	(1938)	(1958)	(1971)
MIN	38.7	45.7	47.1	62.1	57.1	88.5	85.4	72.0	54.1	36.6	35.6	36.5
(WY)	(1923)	(1923)	(1999)	(1981)	(2002)	(2002)	(1985)	(1992)	(1995)	(1999)	(1995)	(1995)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1922 - 2005	
ANNUAL TOTAL	76,520		69,592		170	
ANNUAL MEAN	209		191		69.0	
HIGHEST ANNUAL MEAN					286	1978
LOWEST ANNUAL MEAN					69.0	2002
HIGHEST DAILY MEAN	1,640	Jul 14	539	Apr 4	1,690	Aug 21, 1939
LOWEST DAILY MEAN	50	Jul 11	45	Sep 11	9.0	Sep 29, 1932
ANNUAL SEVEN-DAY MINIMUM	60	Jul 5	47	Sep 6	27	Oct 2, 1922
MAXIMUM PEAK FLOW			546	Apr 4	1,840	Jul 14, 2004
MAXIMUM PEAK STAGE			2.43	Apr 4	4.19	Jul 14, 2004
INSTANTANEOUS LOW FLOW			44	Sep 10-12	9.0	Sep 29, 1932
ANNUAL RUNOFF (CFSM)	1.77		1.62		1.44	
ANNUAL RUNOFF (INCHES)	24.12		21.94		19.55	
10 PERCENT EXCEEDS	337		325		310	
50 PERCENT EXCEEDS	176		179		140	
90 PERCENT EXCEEDS	91		64		61	

