

LACKAWANNA RIVER BASIN

01534500 LACKAWANNA RIVER AT ARCHBALD, PA

LOCATION.--Lat 41°30'16", long 75°32'33", Lackawanna County, Hydrologic Unit 02050107, on right bank along SR 1012 in Archbald, and 0.5 mi upstream from White Oak Run and Gilmartin Street bridge.

DRAINAGE AREA.--108 mi².

PERIOD OF RECORD.--October 1939 to current year. Prior to February 1940 monthly discharge only, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 889.33 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Regulation at low flow by mine pumps upstream from station. Flow regulated since December 1959 by Stillwater Dam (station 01534180) about 17 mi upstream. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	75	118	126	127	173	702	135	111	103	33	71
2	43	71	157	113	125	170	588	126	210	102	32	42
3	40	68	117	113	114	162	481	117	373	83	32	37
4	37	66	100	111	105	153	489	111	354	83	36	37
5	40	64	96	105	110	154	573	107	306	80	32	35
6	74	62	91	106	111	150	673	100	225	75	31	35
7	115	60	90	102	106	144	817	96	180	70	31	34
8	103	62	88	100	98	136	943	91	151	82	32	31
9	85	63	86	95	118	133	1180	88	128	103	29	30
10	73	156	79	91	306	126	1330	84	114	76	32	29
11	66	270	83	85	261	117	1330	79	112	75	34	28
12	60	244	85	88	226	116	1130	77	138	66	31	27
13	55	203	75	81	216	159	909	75	115	61	30	26
14	53	186	85	80	228	180	702	71	100	59	29	32
15	53	171	80	80	323	166	549	68	90	57	28	27
16	50	174	81	80	304	167	474	65	99	54	35	26
17	50	157	1070	79	300	200	409	62	340	52	42	27
18	244	141	721	77	244	222	341	62	212	49	33	28
19	306	131	881	78	211	204	285	61	164	47	31	28
20	293	122	657	77	204	218	249	58	210	45	34	30
21	219	115	450	75	229	301	253	57	207	44	31	29
22	165	108	328	63	187	662	318	80	164	42	30	27
23	137	101	231	65	184	574	257	101	146	40	30	27
24	120	91	206	71	168	535	230	105	137	39	30	29
25	109	89	178	73	187	458	206	108	119	38	28	121
26	104	115	159	66	246	425	190	107	107	40	27	116
27	98	158	162	69	214	367	176	126	95	38	29	87
28	96	153	149	66	196	299	164	213	86	37	32	73
29	88	113	134	64	---	268	152	169	79	37	34	62
30	83	115	135	82	---	722	144	149	78	36	31	55
31	79	---	132	119	---	713	---	125	---	35	62	---
TOTAL	3179	3704	7104	2680	5448	8574	16244	3073	4950	1848	1011	1286
MEAN	103	123	229	86.5	195	277	541	99.1	165	59.6	32.6	42.9
MAX	306	270	1070	126	323	722	1330	213	373	103	62	121
MIN	37	60	75	63	98	116	144	57	78	35	27	26

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01534500 LACKAWANNA RIVER AT ARCHBALD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	123	192	224	192	217	365	428	259	165	90.0	67.5	80.7
MAX	578	661	581	541	598	741	1111	610	605	278	234	377
(WY)	1978	1973	1974	1996	1981	1977	1993	1989	1972	1984	1994	1987
MIN	15.8	17.4	42.6	38.2	40.4	143	174	99.1	47.9	25.6	25.0	18.4
(WY)	1965	1965	1999	1981	1980	1981	1988	2001	1962	1965	1966	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001	
ANNUAL TOTAL	84400		59101			
ANNUAL MEAN	231		162		200	
HIGHEST ANNUAL MEAN					313	
LOWEST ANNUAL MEAN					101	
HIGHEST DAILY MEAN	1590	Feb 28	1330	Apr 10	3250	Mar 15 1986
LOWEST DAILY MEAN	37	Oct 4	26	Sep 13,16	13	Nov 1 1964
ANNUAL SEVEN-DAY MINIMUM	41	Sep 29	28	Sep 11	14	Oct 26 1964
MAXIMUM PEAK FLOW			a2180	Apr 9	a7190	Jan 19 1996
MAXIMUM PEAK STAGE			5.61	Apr 9	9.32	Jan 19 1996
10 PERCENT EXCEEDS	533		320		455	
50 PERCENT EXCEEDS	138		102		120	
90 PERCENT EXCEEDS	53		32		35	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1959, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	113	209	222	203	181	377	455	279	145	112	92.3	78.9
MAX	657	430	420	380	371	691	1113	553	284	373	443	187
(WY)	1956	1946	1951	1949	1951	1945	1940	1947	1946	1947	1955	1945
MIN	27.2	50.1	53.3	56.8	65.2	188	121	85.6	63.4	38.4	31.8	28.8
(WY)	1942	1942	1947	1948	1940	1941	1946	1941	1955	1955	1953	1953

SUMMARY STATISTICS WATER YEARS 1940 - 1959

ANNUAL MEAN	203	
HIGHEST ANNUAL MEAN	266	1956
LOWEST ANNUAL MEAN	153	1957
HIGHEST DAILY MEAN	4840	May 23 1942
LOWEST DAILY MEAN	17	Oct 12 1941
ANNUAL SEVEN-DAY MINIMUM	20	Oct 18 1953
INSTANTANEOUS PEAK FLOW	a9510	May 22 1942
INSTANTANEOUS PEAK STAGE	10.58	May 22 1942
INSTANTANEOUS LOW FLOW	3.0	Oct 9,11 1943
ANNUAL RUNOFF (CFSM)	1.88	
ANNUAL RUNOFF (INCHES)	25.54	
10 PERCENT EXCEEDS	439	
50 PERCENT EXCEEDS	123	
90 PERCENT EXCEEDS	42	

a From rating curve extended above 1,900 ft³/s on basis of slope-area measurement of peak flow.

