

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	31	83	64	526	118	397	607	212	106	40	36
2	43	31	78	63	497	113	340	596	182	96	44	35
3	39	31	75	64	409	133	305	493	159	88	44	33
4	35	30	73	66	341	141	282	431	144	81	41	45
5	33	33	66	65	250	127	250	352	143	76	41	39
6	35	31	61	e60	207	120	226	282	326	72	40	37
7	32	31	58	e62	186	115	203	264	630	70	39	36
8	32	31	56	65	171	109	189	242	572	66	39	34
9	32	31	61	68	157	106	183	250	415	71	37	33
10	33	30	58	69	199	121	189	234	301	74	35	31
11	33	30	57	70	e700	114	168	292	232	66	34	29
12	31	29	57	67	584	108	155	352	206	68	32	29
13	30	29	61	65	521	106	153	1050	165	63	31	28
14	29	28	80	61	360	106	172	1250	297	58	30	27
15	37	29	104	60	284	103	311	1250	477	55	30	31
16	31	28	115	59	249	135	301	895	513	52	30	58
17	35	28	132	58	228	136	285	675	441	49	31	35
18	33	28	296	57	200	130	267	943	400	47	31	34
19	33	28	301	47	180	125	247	814	330	48	30	33
20	33	32	305	55	172	139	220	673	238	47	43	31
21	32	30	228	55	180	161	192	556	202	45	32	30
22	31	30	174	60	185	190	178	449	183	44	33	48
23	32	31	147	58	173	170	168	376	175	46	37	79
24	44	31	147	73	154	167	155	321	163	57	47	72
25	40	41	138	126	144	176	158	278	203	67	41	60
26	40	60	123	141	137	266	170	244	171	59	35	52
27	39	65	106	146	136	756	156	216	145	52	34	120
28	37	61	99	152	127	626	447	227	136	50	37	257
29	35	57	90	183	---	543	720	234	127	47	45	144
30	34	62	80	424	---	469	611	210	114	43	39	107
31	32	---	69	459	---	411	---	218	---	42	35	---
TOTAL	1083	1067	3578	3122	7657	6340	7798	15274	8002	1905	1137	1663
MEAN	34.94	35.57	115.4	100.7	273.5	204.5	259.9	492.7	266.7	61.45	36.68	55.43
MAX	48	65	305	459	700	756	720	1250	630	106	47	257
MIN	29	28	56	47	127	103	153	210	114	42	30	27

e Estimated.

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01534500 LACKAWANNA RIVER AT ARCHBALD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	121.3	188.6	221.8	190.1	218.3	361.6	424.3	264.8	167.7	89.30	66.82	80.08
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1960 - 2002	
ANNUAL TOTAL	50842		58626			
ANNUAL MEAN	139		161		199	
HIGHEST ANNUAL MEAN					313	
LOWEST ANNUAL MEAN					101	
HIGHEST DAILY MEAN	1330	Apr 10	1250	May 14,15	3250	Mar 15 1986
LOWEST DAILY MEAN	26	Sep 13,16	27	Sep 14	13	Nov 1 1964
ANNUAL SEVEN-DAY MINIMUM	28	Sep 11	28	Nov 13	14	Oct 26 1964
MAXIMUM PEAK FLOW			a1930	May 13	a7190	Jan 19 1996
MAXIMUM PEAK STAGE			5.35	May 13	9.32	Jan 19 1996
10 PERCENT EXCEEDS	301		404		454	
50 PERCENT EXCEEDS	80		80		120	
90 PERCENT EXCEEDS	30		31		34	

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
MAXIMUM PEAK FLOW	a9510	May 22 1942
MAXIMUM 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.

