

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.--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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	142	186	396	88	166	557	249	1700	149	92	135
2	71	134	166	772	86	174	523	268	1150	134	95	1330
3	61	125	148	650	85	171	523	306	931	122	85	994
4	54	119	129	529	114	156	469	269	697	113	92	3240
5	52	114	131	435	127	157	510	229	550	105	119	1440
6	47	153	131	378	117	163	508	189	420	97	163	992
7	45	163	122	330	121	148	449	163	441	92	127	662
8	43	150	116	301	109	151	411	192	439	88	131	461
9	41	136	104	281	108	152	369	178	381	86	165	375
10	40	127	96	263	106	138	358	251	331	84	145	315
11	306	129	108	233	101	134	388	263	317	124	334	269
12	1240	175	184	212	96	137	447	354	320	155	425	234
13	733	318	171	192	91	138	389	383	314	130	292	212
14	527	280	350	175	88	132	340	354	317	101	225	203
15	367	262	389	168	88	140	299	302	355	85	174	389
16	1030	222	329	162	79	232	268	251	293	79	148	586
17	1110	420	274	157	74	541	236	217	230	81	136	433
18	903	505	219	136	89	969	213	193	209	89	121	360
19	622	454	201	130	95	1080	200	172	197	81	110	332
20	445	386	482	136	92	1240	184	156	248	71	100	292
21	328	372	554	120	87	1390	174	150	832	76	91	248
22	254	412	510	112	111	1270	194	142	960	271	85	213
23	212	450	416	105	274	1170	205	137	781	339	82	1170
24	181	403	327	104	283	1450	190	154	626	273	76	920
25	164	355	287	105	246	1460	179	158	453	195	73	679
26	246	312	260	104	215	1360	376	205	337	150	70	509
27	240	275	240	97	197	1200	461	210	266	134	68	393
28	212	240	225	94	181	975	394	199	220	149	62	483
29	186	214	210	98	---	853	364	210	190	116	63	410
30	165	197	193	92	---	780	308	183	168	100	109	368
31	150	---	231	88	---	656	---	224	---	86	70	---
TOTAL	10159	7744	7489	7155	3548	18883	10486	6911	14673	3955	4128	18647
MEAN	328	258	242	231	127	609	350	223	489	128	133	622
MAX	1240	505	554	772	283	1460	557	383	1700	339	425	3240
MIN	40	114	96	88	74	132	174	137	168	71	62	135

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01534500 LACKAWANNA RIVER AT ARCHBALD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	126	190	222	191	216	367	423	264	175	90.2	68.3	92.4
MAX	578	661	581	541	598	741	1111	610	605	278	234	622
(WY)	1978	1973	1974	1996	1981	1977	1993	1989	1972	1984	1994	2003
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 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1960 - 2003

ANNUAL TOTAL	78290		113778			
ANNUAL MEAN	214		312		202	
HIGHEST ANNUAL MEAN					313 1973	
LOWEST ANNUAL MEAN					101 1965	
HIGHEST DAILY MEAN	1250	May 14,15	3240	Sep 4	3250	Mar 15 1986
LOWEST DAILY MEAN	27	Sep 14	40	Oct 10	13	Nov 1 1964
ANNUAL SEVEN-DAY MINIMUM	30	Sep 9	46	Oct 4	14	Oct 26 1964
MAXIMUM PEAK FLOW			a8800	Sep 4	a8800	Sep 4 2003
MAXIMUM PEAK STAGE			10.21	Sep 4	10.21	Sep 4 2003
10 PERCENT EXCEEDS	479		652		459	
50 PERCENT EXCEEDS	155		205		121	
90 PERCENT EXCEEDS	38		88		35	

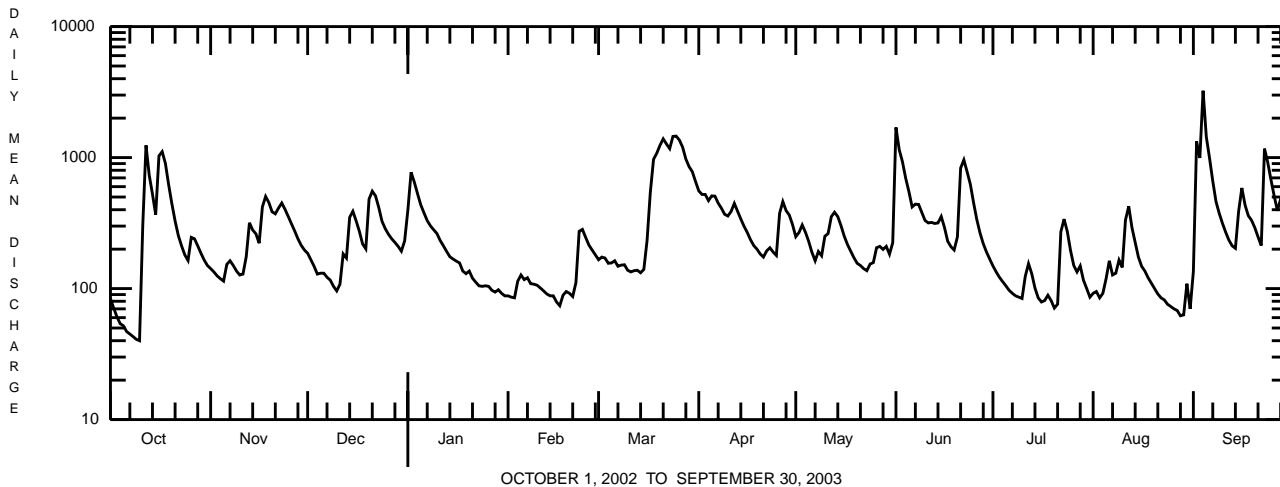
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1959, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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
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.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003