LEHIGH RIVER BASIN

01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER RESERVOIR NEAR WHITE HAVEN, PA

LOCATION.--Lat 41°06′17″, long 75°43′57″, Luzerne County, Hydrologic Unit 02040106, on right bank 0.7 mi downstream from Francis E. Walter Reservoir, 2.0 mi upstream from Fawn Run, and 4.0 mi northeast of White Haven.

DRAINAGE AREA.--290 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1957 to current year. Prior to October 1962 published as "below Bear Creek Reservoir", October 1962 to September 1971 published as "below Francis E. Walter Reservoir."

GAGE.--Water-stage recorder. Datum of gage is 1,212.95 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since February 1961 by Francis E. Walter Reservoir (station 01447780) 0.7 mi upstream. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of August 1955 reached a discharge of 54,200 ft³/s based on slope-area measurement at site 4.9 mi downstream.

DISCHARGE CUBIC FEET PER SECOND WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

			DISCHAR	GE, CUBIC	FEET PER S		TER YEAR C EAN VALUE		98 TO SEPTI	EMBER 1999		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	147	221	81	806	632	662	339	159	64	97	113
2	90	147	221	81	726	758	596	310	174	64	85	138
3	74	147	221	81	1340	515	623	310	183	64	53	138
4	68	135	179	143	1610	1290	623	310	183	64	49	136
5	68	97	128	245	1120	1760	623	283	157	64	49	133
6	68	76	128	284	876	1280	584	267	138	64	49	133
7	72	76	153	258	876	1020	494	301	135	64	49	93
8	126	76	176	218	780	646	393	283	133	64	49	52
9	228	101	176	199	598	449	382	346	117	64	47	52
10	749	148	176	362	514	518	805	377	109	64	49	52
11	741	203	164	602	523	581	985	271	109	64	49	52
12	434	203	150	551	570	566	727	228	299	64	48	52
13	287	178	150	431	714	531	459	213	284	64	47	52
14	281	158	118	369	887	524	400	255	123	62	45	52
15	327	158	78	368	863	522	432	288	129	64	47	52
16	424	158	65	370	713	469	432	186	133	63	47	63
17	524	158	114	373	581	432	442	186	134	62	47	451
18	227	154	130	381	581	e540	451	186	136	62	47	672
19	180	150	100	1550	591	e620	551	219	137	63	47	95
20	160	150	100	2340	595	e620	550	369	138	62	47	95
21	147	147	126	1690	595	e620	503	426	138	60	48	95
22	147	147	144	1250	534	807	503	490	136	63	48	95
23	147	121	144	1260	396	1490	499	489	133	61	48	249
24	147	97	135	872	373	1430	559	491	135	60	75	803
25	147	109	128	3730	449	1260	581	494	138	60	106	1260
26	147	133	127	5730	365	967	580	447	401	66	81	916
27	147	183	125	4830	343	787	467	387	204	74	52	568
28	147	218	144	3290	343	798	389	424	78	64	53	568
28 29	147	218		1810	343	798 859	365		78 64	74	53	568
			145					345				
30	147	221	125	1220		926	342	155	64	100	52	568
31	147		106	1170		804		156		98	69	
TOTAL	6845	4417	4397	36139	19262	25021	16002	9831	4601	2050	1732	8366
MEAN	221	147	142	1166	688	807	533	317	153	66.1	55.9	279
MAX	749	221	221	5730	1610	1760	985	494	401	100	106	1260
MIN	68	76	65	81	343	432	342	155	64	60	45	52

e Estimated.

LEHIGH RIVER BASIN

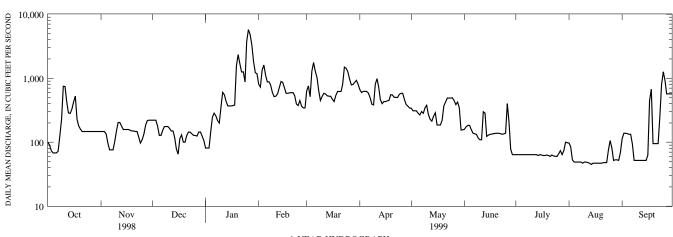
01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER RESERVOIR NEAR WHITE HAVEN, PA.-Continued

STATIST	rics of M	MONTHLY	MEAN DATA	FOR WATER	YEARS 196	51 - 1999	, BY WATER	YEAR (WY)	(SINCE	REGULATIO	<u>)N</u>)	
	OCT	NOV	DEC DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN MAX (WY) MIN (WY)	439 1435 1978 68.5 1964	650 1488 1986 68.1 1965	2079 1997 142	2596 1996 131	666 1542 1981 197 1980	1028 2018 1977 326 1981	1137 3198 1993 341 1966	770 1968 1989 313 1962	512 1359 1972 135 1962	348 1165 1973 66.1 1999	257 1153 1969 55.9 1999	334 1784 1987 43.2 1964
SUMMARY	STATIST	TICS	FC	R 1998 CAL	ENDAR YEAI	R I	FOR 1999 W F	ATER YEAR		WATER YE	EARS 1961	- 1999
ANNUAL	MEAN			572			380			625		
	C ANNUAL									954		1996
	ANNUAL N			2050			F	- 06		289		1965
	DAILY M			3850 65	Mar 11 Dec 16		5730 45	Jan 26		11000 22		1996
	SEVEN-DA		TTIM	77	Oct 1		45	Aug 14 Aug 13		33		<u>1965</u> a 9 1965
	CANEOUS I			//	000	L	5990	Jan 25		11700		.3 1993
	CANEOUS E						7.08			8.86		3 1993
	TANEOUS I									b 1.3		4 1961
10 PERC	CENT EXC	EEDS		1320			804			1330		
	CENT EXC			295			178			414		
90 PERC	CENT EXC	EEDS		100			61			107		

STAT	ISTICS OF	MONTHLY	MEAN DATA	FOR WATER	YEARS 1	958 - 1960,	BY WATE	R YEAR (WY) (PRIOR	TO REGULA	ATION)	
	OCT	NOV	DEC	JAN	FEB	MAR.	APR	MAY	JUN	JUL	AUG	SEP
MEAN	378	571	1002	692	678	790	1886	909	425	245	190	371
MAX	502	854	1504	778	1039	926	2536	1134	521	339	270	744
(WY)	1960	1960	1958	1960	1960	1958	1958	1958	1960	1960	1960	1960
MIN	173	347	371	549	467	610	1262	520	310	195	129	135
(WY)	1958	1958	1959	1959	1959	1960	1959	1959	1959	1959	1959	1959

SUMMARY STATISTICS	WATER YEARS	1958	-	1960
ANNUAL TOTAL ANNUAL MEAN	676			
HIGHEST ANNUAL MEAN	807			1960
LOWEST ANNUAL MEAN	478			1959
HIGHEST DAILY MEAN	10700	Dec	21	1957
LOWEST DAILY MEAN	50	Oct	4	1957
ANNUAL SEVEN DAY MINIMUM	63	Oct	1	1957
INSTANTANEOUS PEAK FLOW	c 13800	Dec	21	1957
INSTANTANEOUS PEAK STAGE	9.85	Dec	21	1957
ANNUAL RUNOFF (CFSM)	2.33			
ANNUAL RUNOFF (INCHES)	31.69			
10 PERCENT EXCEEDS	1390			
50 PERCENT EXCEEDS	440			
90 PERCENT EXCEEDS	141			

- a Also July 22, 23, 1965.
 b Result of shutoff at reservoir.
 c From rating curve extended above 6,100 ft³/s.



1-YEAR HYDROGRAPH OCTOBER 1, 1998 TO SEPTEMBER 30, 1999

LEHIGH RIVER BASIN

01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER RESERVOIR NEAR WHITE HAVEN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to 1982.

PERIOD OF DAILY RECORD.--WATER TEMPERATURE: Water years 1988 to current year.

INSTRUMENTATION.--Temperature probe interfaced with a data collection platform.

REMARKS.--Interruptions in the record were due to malfunctions of the recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 31.5°C, July 21, 1988; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 26.5°C, Aug. 9; minimum, 0.0°C, Jan. 6-17, 21.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER	!	N	OVEMBER	!	I	DECEMBER			JANUAR	Y
1 2 3 4 5	18.0 18.0 15.5 14.0 15.5	16.5 14.5 14.0 13.5 12.5	17.0 16.0 14.5 13.5	9.5 9.0 9.0 8.5 8.0	8.0 8.0 7.5 6.5 5.5	8.5 8.5 8.0 7.5 7.0	6.0 5.5 6.0 6.5	4.5 5.0 5.0 5.5 5.5	5.0 5.0 5.5 5.5	2.0 1.5 1.5 1.0	.5 .5 .5 .5	1.0 1.0 1.0 .5
6 7 8 9 10	15.5 14.0 14.5 14.5	12.0 13.0 13.5 14.0 14.0	13.5 13.5 14.0 14.5 14.5	6.5 6.5 6.0 6.0	5.5 5.5 5.5 5.0 5.5	6.0 6.0 6.0 5.5	6.5 7.5 7.0 7.5 7.0	5.5 6.0 6.5 6.5	6.0 6.5 6.5 7.0 6.5	.5 .5 .5 .5	.0.0.0.0	.5 .5 .5 .0
11 12 13 14 15	14.5 14.0 13.5 14.0 14.0	13.5 13.0 13.5 13.5	14.0 13.5 13.5 13.5 13.5	6.5 6.0 6.5 6.5	5.5 5.5 5.5 5.0 5.5	6.0 6.0 6.0 5.5	6.0 6.0 5.5 4.5	5.5 4.5 4.5 3.5 2.5	5.5 5.0 5.0 4.0 3.5	.0	.0.0.0.0	.0.0.0
16 17 18 19 20	13.5 13.0 13.0 13.0	12.5 11.5 11.5 12.0 12.0	13.0 12.5 12.0 12.0 12.5	6.0 6.5 6.0 5.5	5.5 5.5 5.5 5.5 5.5	5.5 5.5 5.5 5.5	4.0 3.5 3.5 3.5 3.0	2.5 2.0 2.0 2.0 2.5	3.0 3.0 2.5 3.0 3.0	.5 .5 	.0 .0 	.0 .0
21 22 23 24 25	12.5 11.5 11.0 11.0	11.5 10.5 9.5 9.5 9.5	12.0 11.0 10.0 10.0 10.0	5.5 6.0 6.0 6.0	5.0 4.5 4.5 4.5 4.5	5.0 5.0 5.0 5.0	3.5 3.5 3.0	3.0 2.0 2.0	3.0 3.0 2.5	1.0 2.0 2.5 3.5 3.5	.0 1.0 2.0 2.5 2.0	.5 1.5 2.0 3.0 2.5
26 27 28 29 30 31	11.0 11.0 11.0 11.0	9.5 10.5 10.5 9.5 8.5	10.0 10.5 11.0 10.0 9.5	5.0 5.0 5.0 5.0 5.0	4.5 4.5 4.5 4.5 4.5	5.0 5.0 4.5 4.5 4.5	3.0 3.0 3.0 2.5 2.0	2.0 2.0 2.0 2.0 1.5	2.5 2.5 2.5 2.0 2.0	2.0 2.0 2.0 3.0 2.5 2.0	2.0 1.5 1.5 2.0 1.5	2.0 2.0 2.0 2.5 2.0
MONTH	18.0	8.5	12.6	9.5	4.5	5.8	7.5	1.0	4.1	3.5	.0	1.0

LEHIGH RIVER BASIN

01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER RESERVOIR NEAR WHITE HAVEN, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	1.5 2.5 3.0 3.5 3.0	1.0 1.0 2.5 2.5 2.5	1.0 1.5 2.5 3.0 3.0	3.0 3.5 4.0 4.5 3.5	2.5 2.5 3.0 3.5 2.5	3.0 3.0 3.5 4.0 3.0	7.5 8.0 9.0 9.5	6.5 7.5 8.0 8.5	7.0 8.0 8.5 9.0	12.5 13.0 13.5 13.5 14.5	11.5 11.5 12.5 13.0 13.0	12.0 12.5 13.0 13.0
6 7 8 9 10	2.5 2.5 2.5 2.5 2.5	2.0 2.0 2.0 1.5 2.0	2.5 2.5 2.0 2.0 2.5	3.5 2.5 1.5 1.5	2.5 1.5 1.0 1.0	3.0 2.0 1.5 1.0	9.5 10.5 10.5 11.0 11.0	8.5 9.0 9.5 10.0 9.5	9.0 9.5 10.0 10.5 10.5	14.5 15.0 15.0 15.0	13.0 14.0 14.0 14.0	13.5 14.5 14.5 14.5
11 12 13 14 15	3.0 3.5 4.0 3.0 2.0	2.0 2.5 3.0 2.0 1.5	3.0 3.5 3.5 2.5 2.0	2.0 1.5 1.5 2.0 2.0	1.0 1.0 1.0 1.0		9.5 8.5 8.5 9.0 8.5		9.0 8.0 8.0 8.0	15.5 15.5 16.0 16.0 17.0	14.0 14.0 14.5 14.5	14.5 14.5 15.0 15.5 15.5
16 17 18 19 20	2.5 3.0 3.0 3.5 3.5	1.5 2.5 2.5 3.0 2.5	2.0 2.5 3.0 3.0	2.0 3.0 4.0 4.5 4.5	1.5 1.5 2.5 4.0 4.0	2.0 2.5 3.5 4.0 4.5	8.5 8.5 8.0 8.0	8.0 7.5 7.5 7.5 7.5	8.5 8.0 7.5 7.5 8.0	17.0	15.0 15.0 15.5 16.0 16.5	15.5 15.5 16.0 16.5 16.5
21 22 23 24 25	3.0 2.0 1.5 2.5 1.5		1.5 1.5	4.5 3.5 4.0	3.5	4.0 3.0 4.0	8.0 8.5 9.5 9.5 9.5	6.5 7.0 8.0 8.5 8.5	7.5 8.0 9.0 9.5 8.5	17.0 17.5	16.0 16.5 16.5 17.0 15.5	16.5 16.5 17.0 17.0 16.0
26 27 28 29 30 31	2.0 2.5 2.5 	1.0 1.5 2.0 	1.5 2.0 2.5 	4.5 5.0 5.5 6.5 7.5	3.5 3.5 4.0 5.0 6.0	4.0 4.5 5.0 6.0 7.0 6.5	10.0 10.5 10.5 12.0 12.0	8.5 9.5 9.5 10.0 10.5	9.0 10.0 10.0 10.5 11.5	15.5 15.0 15.0 16.0 16.5	14.5 14.0 14.0 14.0 14.0	15.0 14.5 14.5 15.0 15.0
MONTH	4.0	1.0		7.5		3.2	12.0	6.5	8.8	17.5	11.5	15.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	JUNE			MIN JULY			AUGUST			MIN SEPTEMBE	
DAY 1 2 3 4 5	MAX 17.0 17.5 18.0 19.5 20.0	JUNE 15.5 16.0 17.0 17.5 18.0	16.0 17.0 17.5 18.5	23.0 23.0 25.0 25.5 25.5	JULY 21.5 22.0 22.0 22.0 22.0	22.0 22.5 23.0 23.5 23.5	25.5 26.0 26.0 26.0 25.5	23.5 23.0 22.5 22.0 22.5	24.0 24.0 24.0 23.5 23.5	21.5 22.0 21.5 22.0 22.0	19.5 20.0 20.5	
1 2 3 4 5 6 7 8 9	17.0 17.5 18.0 19.5 20.0 20.5 21.0 21.5 20.0	JUNE 15.5 16.0 17.0 17.5 18.0	16.0 17.0 17.5 18.5		JULY 21.5 22.0 22.0 22.0 22.0		25.5 26.0 26.0 26.0 25.5	23.5 23.0 22.5 22.0 22.5		21.5 22.0 21.5 22.0 22.0	19.5 20.0 20.5 20.5 21.0 21.5 20.5 20.5	20.5 21.0 21.0 21.0
1 2 3 4 5 6 7 8 9	17.0 17.5 18.0 19.5 20.0 20.5 21.0 21.5	JUNE 15.5 16.0 17.0 17.5 18.0 17.5 18.0 17.5 19.0 19.0 19.5	16.0 17.0 17.5 18.5	23.0 23.0 25.0 25.5 25.5 26.0 25.0 24.5 24.5	JULY 21.5 22.0 22.0 22.0 22.0	22.0 22.5 23.0 23.5 23.5	25.5 26.0 26.0 25.5 26.0 25.5 26.0 25.5 23.5 24.5	23.5 23.0 22.5 22.0 22.5 22.0 21.5 22.0 21.5 22.0 21.5	24.0 24.0 24.0 23.5 23.5 23.5 23.5 23.5 23.5 22.5 21.5	21.5 22.0 21.5 22.0 22.0 23.0 24.0 24.5 23.5 22.5	19.5 20.0 20.5 20.5 21.0 21.5 20.5 20.5 20.5 20.5	20.5 21.0 21.0 21.0 21.5 22.0 22.0 21.5 21.5 21.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14	17.0 17.5 18.0 19.5 20.0 20.5 21.0 21.5 20.0 22.5 22.0 22.0	JUNE 15.5 16.0 17.0 17.5 18.0 17.5 19.0 19.0 19.5 19.0 20.5 20.5 20.5 19.0 19.5	16.0 17.0 17.5 18.5 18.5 19.5 19.5 20.0 19.5	23.0 23.0 25.0 25.5 25.5 26.0 25.0 24.5 24.5 24.5	JULY 21.5 22.0 22.0 22.0 22.0 22.5 22.5 22.5 22	22.0 22.5 23.0 23.5 23.5 24.0 23.5 23.5 23.5 23.5 23.5 23.5	25.5 26.0 26.0 25.5 26.0 25.5 26.5 24.5 25.5 24.5	23.5 23.0 22.5 22.0 22.5 22.0 21.5 22.0 21.0 20.5 20.5 21.0 21.5	24.0 24.0 24.0 23.5 23.5 23.5 23.5 22.5 22.5 22.5 22.5	21.5 22.0 21.5 22.0 22.0 23.0 24.0 24.5 23.5 22.5	19.5 20.0 20.5 20.5 21.0 21.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5	20.5 21.0 21.0 21.5 22.0 22.0 21.5 21.5 21.5 21.5 20.0 20.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	17.0 17.5 18.0 19.5 20.0 20.5 21.0 21.5 20.0 22.5 22.0 22.0 22.0 22.0 22.0	JUNE 15.5 16.0 17.0 17.5 18.0 17.5 19.0 19.0 19.5 19.0 20.5 20.5 20.5 19.5 19.0 17.5 18.0 17.5 19.0 17.5 19.0 17.5	16.0 17.0 17.5 18.5 18.5 19.5 20.0 19.5 20.0 21.0 21.0 21.0 21.0 20.5 20.0 18.5 18.5	23.0 23.0 25.0 25.5 25.5 26.0 25.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	JULY 21.5 22.0 22.0 22.0 22.0 22.5 22.5 22.5 21.5 21.0 21.0 21.0 21.0 21.5 22.0	22.0 22.5 23.0 23.5 23.5 24.0 23.5 23.5 23.5 23.5 23.0 22.0 22.0 22.0 22.0 22.0 22.0 22.0	25.5 26.0 26.0 25.5 26.0 25.5 26.5 24.5 25.5 24.5 25.5 24.5 24.0 24.5 24.0 24.5	23.5 23.0 22.5 22.0 22.5 22.0 21.5 20.5 20.5 21.0 21.5 20.5 21.0 21.5 20.5 20.5 21.0	24.0 24.0 24.0 23.5 23.5 23.5 23.5 22.5 22.5 22.5 22.5	21.5 22.0 21.5 22.0 22.0 23.0 24.0 24.5 23.5 22.5 23.0 22.0 21.5 20.5	19.5 20.0 20.5 20.5 21.0 21.5 20.5 20.5 20.0 20.5 20.5 20.0 19.5 20.0 19.5 20.0	20.5 21.0 21.0 21.5 22.0 22.0 22.5 21.5 21.5 21.5 20.5 20.0 20.0 20.0 20.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	17.0 17.5 18.0 19.5 20.0 20.5 21.0 21.5 20.0 22.5 22.0 22.0 22.0 22.0 22.0 22	JUNE 15.5 16.0 17.0 17.5 18.0 17.5 18.0 19.0 19.0 19.5 19.0 20.5 20.5 20.5 19.5 19.0 17.5 18.0 17.5 19.0 20.5 20.5	16.0 17.0 17.5 18.5 18.5 19.5 20.0 19.5 20.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23.0 23.0 25.0 25.5 25.5 26.0 25.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5	JULY 21.5 22.0 22.0 22.0 22.0 22.5 22.5 22.5 21.5 21.0 21.0 21.0 21.0 20.5 21.0 21.0 21.5 22.0 22.0 22.5 23.0	22.0 22.5 23.5 23.5 23.5 23.5 23.5 23.5 23.5	25.5 26.0 26.0 25.5 26.0 25.5 24.5 26.5 24.5 25.5 24.5 22.5 24.0 22.5 23.0 21.0 21.0 22.5 21.0	23.5 23.0 22.5 22.0 22.5 22.0 21.5 20.5 20.5 20.5 20.5 21.0 21.5 19.5 20.5 20.5 20.5 21.0 21.5 19.5 20.5 20.5 21.0 21.5	24.0 24.0 24.0 23.5 23.5 23.5 22.5 22.5 22.5 22.5 22.5	21.5 22.0 21.5 22.0 22.0 24.0 24.5 23.5 22.5 23.0 22.0 21.5 20.5 20.5 21.5 20.5	\$\text{20.0}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.5}\$ \$\text{20.0}\$ \$\text{19.5}\$ \$\text{20.0}\$ \$\text{19.5}\$ \$\text{20.0}\$ \$\text{19.5}\$ \$\text{20.0}\$ \$\text{14.0}\$ \$\text{14.0}\$ \$\text{13.5}\$ \$\text{14.0}\$ \$\text{13.5}\$ \$\text{13.0}\$	20.5 21.0 21.0 21.5 22.0 22.0 22.5 21.5 21.5 21.5 21.5 21.5 21.5 21.5
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