LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°05'05", long 75°36'21", Carbon County, Hydrologic Unit 02040106, on left bank 50 ft downstream from bridge on State Highway 940, 500 ft downstream from Shingle Mill Run, and 1.5 mi southwest of Blakeslee.

DRAINAGE AREA.--118 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,511.23 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 16, 1962, nonrecording gage at site 50 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Power generation at Pocono Lake about 5.0 mi upstream since 1985 and minor diversion from Tunkhannock Creek Basin into Wild Creek Basin. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 19.41 ft, from floodmark, discharge, 35,300 ft^3/s, by slope-area measurement.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*****):

Date	Time	Discharge ft^3/s	Gage Height (ft)
June 7	1400	*1,120	*5.10

Date	Time	Discharge ft^3/s	Gage Height (ft)
(No peaks above base discharge.)			

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	81	53	345	e180	242	122	346	441	326	208	75	85
2	77	53	327	e160	256	122	334	438	294	168	73	77
3	74	53	238	133	212	366	309	433	229	141	74	67
4	73	53	188	84	181	419	302	355	188	121	73	61
5	71	54	163	70	141	321	280	300	180	112	79	53
6	74	51	127	61	138	253	239	256	294	100	86	46
7	72	53	110	107	135	197	216	232	1000	94	76	42
8	71	51	121	118	131	181	208	217	845	93	76	39
9	69	48	119	113	129	187	207	236	563	96	73	37
10	69	47	113	114	137	317	248	278	381	115	72	35
11	69	48	108	117	299	308	225	257	238	84	70	33
12	63	48	113	116	286	258	e220	284	293	83	38	27
13	54	47	123	116	225	208	e240	558	318	81	35	27
14	54	48	157	113	164	192	e400	877	369	81	33	28
15	69	48	183	88	149	184	e600	685	468	80	33	62
16	68	47	153	64	146	207	532	492	439	78	33	452
17	71	44	151	64	137	213	388	384	360	74	32	411
18	66	44	223	62	130	213	305	752	287	83	33	261
19	63	44	233	e80	131	209	244	868	258	66	32	164
20	59	46	179	e100	129	195	237	619	235	63	36	99
21	57	45	155	111	144	259	224	468	199	61	28	79
22	56	45	128	109	161	291	213	369	172	58	27	74
23	55	45	122	108	145	274	212	349	160	136	30	72
24	56	45	134	117	136	245	193	306	148	303	41	69
25	55	89	121	134	129	234	206	272	135	220	47	67
26	53	121	105	127	126	267	231	252	321	123	44	67
27	53	150	e120	124	131	623	204	239	662	99	42	135
28	53	182	115	126	128	601	413	251	555	96	42	e220
29	54	126	84	132	---	465	643	410	383	85	70	e180
30	54	195	78	210	---	377	528	447	264	92	100	e140
31	53	---	e160	251	---	330	---	370	---	78	97	---
TOTAL	1966	2023	4796	3609	4598	8638	9147	12695	10564	3372	1700	3209
MEAN	63.42	67.43	154.7	116.4	164.2	278.6	304.9	409.5	352.1	108.8	54.84	107.0
MAX	81	195	345	251	299	623	643	877	1000	303	100	452
MIN	53	44	78	61	126	122	193	217	135	58	27	27
CFSM	0.54	0.57	1.31	0.99	1.39	2.36	2.58	3.47	2.98	0.92	0.46	0.91
IN.	0.62	0.64	1.51	1.14	1.45	2.72	2.88	4.00	3.33	1.06	0.54	1.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	185.7	258.2	290.2	271.5	272.0	410.0	465.7	325.0	225.1	148.0	115.4	157.1
MAX	598	644	827	1019	768	948	1247	784	777	481	372	785
(WY)	1977	1973	1997	1996	1981	1977	1993	1989	1972	1969	1969	1987
MIN	31.2	48.1	58.0	40.6	100	172	162	134	64.1	30.3	34.3	28.0
(WY)	1964	1965	1981	1981	1980	1989	1985	1999	1999	1999	1964	1964

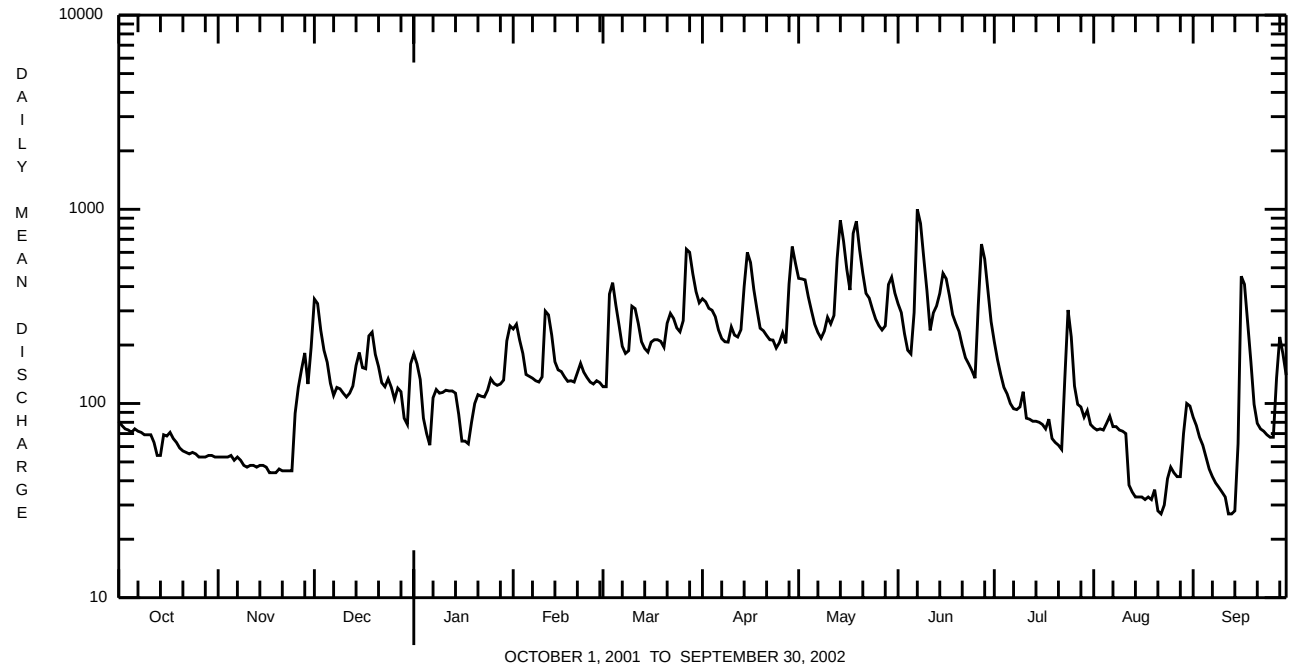
e Estimated.

LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002	
ANNUAL TOTAL	55034		66317			
ANNUAL MEAN	151		182		260	
HIGHEST ANNUAL MEAN					399	1973
LOWEST ANNUAL MEAN					129	1965
HIGHEST DAILY MEAN	765	Mar 31	1000	Jun 7	5540	Apr 6 1984
LOWEST DAILY MEAN	44	Sep 19**a**	27	Aug 22**b**	21	Aug 12 1999**c**
ANNUAL SEVEN-DAY MINIMUM	45	Nov 17	31	Aug 17	23	Sep 21 1964
MAXIMUM PEAK FLOW			1120	Jun 7	9190	Sep 27 1985
MAXIMUM PEAK STAGE			5.10	Jun 7	12.33	Sep 27 1985
INSTANTANEOUS LOW FLOW					16	Aug 8 1991
ANNUAL RUNOFF (CFSM)	1.28		1.54		2.20	
ANNUAL RUNOFF (INCHES)	17.35		20.91		29.94	
10 PERCENT EXCEEDS	303		379		524	
50 PERCENT EXCEEDS	116		129		175	
90 PERCENT EXCEEDS	49		47		57	

a Also Nov. 17-19.
b Also Sept. 12, 13.
c Also Sept. 3, 4, 1999.



01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1930 to 1982, 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water years 1980 to current year.

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

REMARKS.--Water temperature records rated good. Interruptions in the record were due to malfunctions of the recording instrument. Other data for the Water-Quality Network can be found on pages 410-425.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 28.5°C, July 5, 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR--
WATER TEMPERATURE: Maximum, 26.0°C, Aug. 2-4; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG) (00927)
APR 2002													
02...	0830	9813	329	40	12.3	6.5	82	5.9	17	4.83	4.8	1.11	1.1
JUN													
04...	1210	9813	182	40	9.5	6.7	73	18.0	13	3.76	3.8	.94	1.0
AUG													
08...	0800	9813	77	40	8.9	7.0	80	16.7	17	4.59	4.8	1.17	1.2

Date	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB MG/L AS CACO3 (00417)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DISSOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COPPER, DISSOLVED (µG/L AS CU) (01040)
APR 2002													
02...	20	5	5.9	62	<2	<.020	.21	<.040	.47	.01	.014	1.9	<4
JUN													
04...	17	5	4.6	72	6	<.020	.12	<.040	.36	.01	.011	1.2	<4
AUG													
08...	19	8	4.3	48	10	<.020	.14	<.040	.81	<.01	.011	1.7	<4

Date	COPPER, TOTAL RECOVERABLE (µG/L AS CU) (01042)	IRON, DISSOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (µG/L AS FE) (01045)	LEAD, DISSOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (µG/L AS PB) (01051)	MANGANESE, DISSOLVED (µG/L AS MN) (01056)	MANGANESE, TOTAL RECOVERABLE (µG/L AS MN) (01055)	NICKEL, DISSOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOVERABLE (µG/L AS NI) (01067)	ZINC, DISSOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (µG/L AS ZN) (01092)
APR 2002											
02...	<4	80	190	<1.0	<1.0	30	40	<4.0	<4.0	20	20
JUN											
04...	<4	100	210	<1.0	<1.0	20	50	<4.0	<4.0	8.3	10
AUG											
08...	<4	160	300	<1.0	<1.0	20	50	<4.0	<4.0	<5.0	<5.0

LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			**NOVEMBER**			**DECEMBER**			**JANUARY**	
1	14.0	11.0	12.5	9.5	6.5	8.0	10.5	8.0	9.5	0.0	0.0	0.0
2	14.5	10.5	12.5	11.5	8.5	10.0	8.0	7.0	7.5	0.0	0.0	0.0
3	16.0	11.5	14.0	11.5	9.5	10.5	7.0	5.5	6.5	0.5	0.0	0.0
4	16.0	12.5	14.5	9.5	7.5	8.5	7.5	5.5	6.5	0.5	0.0	0.0
5	16.0	12.5	14.5	8.5	6.0	7.0	9.0	7.0	8.0	0.5	0.0	0.5
6	15.0	12.5	14.0	6.5	5.5	6.0	9.5	8.0	8.5	1.0	0.0	0.5
7	12.5	9.5	10.5	8.0	5.0	6.5	9.0	6.5	8.5	1.0	0.0	0.5
8	10.5	8.0	9.5	8.0	6.0	7.0	6.5	4.0	5.5	2.0	0.5	1.0
9	10.5	6.5	8.5	8.0	5.5	6.5	6.5	4.5	5.0	2.5	1.0	1.5
10	12.0	8.0	10.0	6.0	4.0	5.0	4.5	3.0	4.0	3.0	2.0	2.5
11	13.5	9.0	11.0	5.5	4.0	5.0	5.5	4.5	5.0	3.0	2.5	2.5
12	13.5	10.0	12.0	4.5	2.5	3.5	5.0	3.0	4.0	3.0	2.0	2.5
13	15.0	12.0	13.5	4.5	2.0	3.5	6.5	5.0	6.0	2.5	1.5	2.5
14	14.5	13.0	13.5	5.5	2.5	4.0	7.5	6.5	7.0	3.0	1.5	2.0
15	14.0	11.5	13.0	8.0	5.0	6.5	7.5	4.0	6.0	3.0	2.5	2.5
16	11.5	8.5	10.5	8.5	6.5	7.5	5.5	3.0	4.0	2.5	1.5	2.0
17	10.5	8.5	10.0	7.5	5.5	6.0	5.5	4.0	4.5	2.5	1.5	2.0
18	9.0	7.0	8.0	6.0	4.0	5.0	6.5	4.0	5.5	2.0	0.5	1.0
19	9.5	6.5	8.0	6.5	4.0	5.5	6.0	4.0	4.5	0.5	0.0	0.0
20	11.0	8.5	9.5	6.5	4.5	6.0	6.0	3.0	4.0	1.5	0.0	0.0
21	11.5	7.5	9.5	4.5	3.0	3.5	4.5	2.0	3.0	2.0	1.0	1.5
22	12.0	10.0	11.0	4.5	2.5	3.5	3.5	1.5	2.0	2.5	1.5	2.0
23	13.0	10.5	11.5	5.0	3.0	4.0	3.5	1.0	2.5	3.5	1.5	2.5
24	15.0	12.0	13.5	8.0	5.0	6.5	4.0	2.0	3.0	4.0	3.0	3.5
25	14.0	11.0	13.0	10.0	8.0	9.0	2.5	0.5	1.5	3.0	2.0	2.5
26	11.0	7.5	9.0	8.5	7.0	8.0	1.0	0.5	0.5	3.0	1.5	2.0
27	7.5	6.5	7.0	8.0	5.5	6.5	0.5	0.0	0.5	3.5	1.5	2.5
28	7.5	5.5	6.5	8.5	7.0	8.0	1.5	0.0	0.5	4.0	2.0	3.0
29	7.5	4.0	6.0	8.5	8.0	8.0	1.5	0.0	0.5	5.0	2.5	3.5
30	8.0	6.0	7.0	10.5	8.5	9.5	0.0	0.0	0.0	5.0	3.5	4.5
31	7.0	6.0	6.5	---	---	---	0.0	0.0	0.0	4.0	3.0	3.0
MONTH	16.0	4.0	10.6	11.5	2.0	6.5	10.5	0.0	4.3	5.0	0.0	1.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			**MARCH**			**APRIL**			**MAY**	
1	4.5	3.0	3.5	4.0	0.5	2.0	8.5	6.5	7.5	12.5	8.5	10.0
2	3.0	1.0	2.0	4.0	1.0	2.5	8.5	6.0	7.0	11.5	10.0	10.5
3	3.5	1.0	1.5	5.5	3.5	4.5	9.5	6.5	8.0	11.5	9.5	10.5
4	3.0	0.5	1.5	3.5	1.5	2.5	8.5	5.5	7.0	13.0	8.5	10.5
5	2.5	0.0	0.5	2.5	1.0	1.5	9.0	5.0	6.5	14.5	9.5	11.5
6	2.5	1.0	1.5	4.5	1.0	2.5	7.0	4.5	5.5	15.0	10.5	12.5
7	4.0	2.0	2.5	5.5	2.5	4.0	8.5	3.5	5.5	15.0	12.0	13.5
8	4.0	2.0	3.0	7.0	3.0	4.5	9.0	6.0	7.0	15.5	12.0	13.5
9	4.5	2.5	3.0	7.5	5.0	6.5	10.5	8.0	9.0	14.0	12.0	13.0
10	5.0	3.0	4.0	8.0	2.5	4.5	12.0	8.5	10.0	16.0	12.0	13.5
11	5.0	1.5	3.0	3.5	1.5	2.5	12.5	7.5	9.5	15.5	11.5	13.0
12	3.0	1.5	2.0	4.5	2.5	3.5	---	---	---	13.0	12.0	12.0
13	3.0	1.0	2.5	4.5	3.0	4.0	---	---	---	13.5	12.0	13.0
14	2.5	0.0	1.0	7.5	4.5	5.5	---	---	---	13.5	12.0	12.5
15	3.5	1.5	2.5	9.0	5.5	7.0	---	---	---	13.0	11.0	12.0
16	5.0	3.0	3.5	8.0	4.5	7.0	---	---	---	14.5	11.0	13.0
17	4.0	2.0	3.0	5.0	3.5	4.5	18.5	14.5	16.0	15.5	13.0	14.0
18	3.0	1.0	2.0	4.0	3.5	4.0	19.0	15.0	16.5	13.5	11.0	12.0
19	4.0	0.5	2.5	5.0	4.0	4.5	19.5	15.0	17.0	13.5	11.0	12.0
20	5.5	3.5	4.5	4.5	2.5	3.5	16.0	14.0	15.0	12.5	11.0	11.5
21	6.5	5.0	5.5	7.0	3.0	4.5	14.0	11.5	12.0	12.5	10.0	11.0
22	5.0	4.0	4.5	3.5	1.5	2.5	11.5	9.5	11.0	14.5	9.5	11.5
23	4.5	2.5	3.5	5.0	1.5	3.0	12.5	8.5	10.0	15.5	10.5	13.0
24	5.0	1.5	3.0	5.5	2.5	4.0	14.0	8.0	10.5	16.0	11.5	13.5
25	5.5	2.5	4.0	4.5	3.5	4.0	10.5	9.0	9.5	16.0	12.0	14.0
26	6.5	3.5	5.0	4.0	3.0	3.5	11.5	8.0	9.5	16.5	13.5	14.5
27	5.0	2.0	3.5	4.0	3.5	3.5	13.0	8.0	10.0	17.5	14.0	15.5
28	3.0	0.5	2.0	5.5	2.5	4.0	11.0	9.5	10.5	18.0	15.0	16.0
29	---	---	---	7.0	4.0	5.5	11.0	10.0	10.5	18.0	15.0	16.5
30	---	---	---	8.5	6.0	7.0	10.0	9.0	9.5	19.5	16.5	18.0
31	---	---	---	9.0	6.5	7.5	---	---	---	19.0	17.0	18.0
MONTH	6.5	0.0	2.9	9.0	0.5	4.2	19.5	3.5	10.0	19.5	8.5	13.1

LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			**JULY**			**AUGUST**			**SEPTEMBER**	
1	20.0	16.0	17.5	22.5	18.0	20.0	25.5	20.0	23.0	19.0	17.0	17.0
2	19.5	16.0	17.5	24.0	18.5	21.0	26.0	20.0	23.0	19.0	16.5	17.5
3	19.0	15.0	16.5	25.5	19.5	22.0	26.0	20.5	23.0	21.5	16.5	19.0
4	17.5	15.0	16.5	25.5	20.0	22.5	26.0	21.0	23.5	22.5	18.5	20.5
5	20.5	16.0	18.0	23.5	19.0	21.0	24.0	20.5	22.5	20.0	17.0	18.5
6	18.5	15.0	17.0	21.0	17.5	19.0	22.5	19.0	21.0	19.5	15.0	17.5
7	19.0	15.5	17.5	22.0	16.0	19.0	21.0	17.0	19.0	20.0	15.0	17.5
8	19.5	17.5	18.5	23.0	16.5	19.5	22.0	16.5	19.0	20.0	15.0	18.0
9	19.5	17.0	18.0	22.0	18.5	20.0	22.5	16.0	19.5	20.5	15.5	18.0
10	20.0	17.0	18.5	23.5	19.5	21.0	23.5	17.0	20.0	21.5	17.0	19.0
11	21.5	17.5	19.0	21.5	16.0	19.0	24.0	18.0	21.0	19.5	16.0	18.0
12	20.0	17.5	18.5	22.0	15.0	18.5	23.5	18.5	21.0	17.5	13.5	15.5
13	18.0	17.0	17.5	21.0	16.0	19.0	24.5	19.0	22.0	17.5	12.0	15.0
14	17.0	15.0	16.0	20.0	18.0	19.0	24.5	19.5	22.0	19.0	14.0	16.5
15	16.5	16.0	16.0	23.0	17.5	20.0	25.0	20.0	22.5	18.5	18.0	18.0
16	17.5	15.5	16.5	23.0	18.0	20.5	25.0	21.0	23.0	19.5	16.5	18.5
17	18.0	15.0	16.5	23.5	17.0	20.5	25.5	20.5	23.0	20.0	17.5	18.5
18	18.0	14.5	16.0	23.0	19.5	21.5	25.0	21.0	22.5	19.0	16.5	18.0
19	17.5	15.0	16.0	22.5	19.0	21.0	23.5	20.0	22.0	19.0	16.5	18.0
20	19.5	15.5	17.0	23.5	19.5	21.5	22.5	20.0	21.0	20.0	17.5	19.0
21	20.0	16.0	18.0	23.0	19.0	21.0	22.5	17.0	19.5	20.0	18.5	19.0
22	21.0	16.5	18.5	25.0	19.5	22.0	22.0	18.0	20.0	19.5	18.5	19.0
23	22.0	17.5	19.5	24.0	18.5	21.0	22.5	19.5	21.0	---	---	---
24	22.0	18.0	20.0	22.5	19.5	21.0	21.0	19.0	19.5	17.5	13.0	15.5
25	22.5	18.5	20.5	23.5	20.5	21.5	22.0	18.0	20.0	17.0	13.5	15.5
26	21.5	17.0	19.0	21.0	19.5	20.0	20.5	17.0	19.0	16.5	15.0	15.5
27	21.0	19.0	20.0	21.5	19.0	20.0	21.0	17.0	19.5	16.0	13.5	14.5
28	21.0	19.5	20.0	22.5	19.5	20.5	20.5	18.0	19.0	---	---	---
29	21.5	18.5	20.0	25.0	20.5	22.5	18.0	16.0	17.0	---	---	---
30	22.0	18.5	20.0	25.0	21.0	23.0	20.0	17.5	18.5	---	---	---
31	---	---	---	25.0	19.0	22.0	20.5	16.5	18.5	---	---	---
MONTH	22.5	14.5	18.0	25.5	15.0	20.6	26.0	16.0	20.8	22.5	12.0	17.6
YEAR	26.0	0.0	10.8									