LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°07'49", long 75°37'33", Monroe County, Hydrologic Unit 02040106, on left bank 75 ft upstream from bridge on State Highway 115, at Stoddartsville, 1.9 mi upstream from Tobyhanna Creek, and 4.0 mi southwest of Thornhurst.

DRAINAGE AREA.--91.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WSP 1382: 1947, 1951.

GAGE.--Water-stage recorder. Datum of gage is 1,463.81 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1946, nonrecording gage at site 350 ft downstream at datum 2.14 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 1942, reached a stage of 12.03 ft, from floodmark, present site and datum, discharge, 15,700 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*****):

Date	Time	Discharge ft^3/s	Gage Height (ft)
May 28	2245	*5,440	*8.34

Date	Time	Discharge ft^3/s	Gage Height (ft)
No other peak greater than 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	33	21	122	93	175	84	272	434	457	122	25	24
2	28	20	102	86	203	81	244	440	367	126	25	27
3	26	21	86	82	164	153	228	424	298	113	28	24
4	24	20	76	79	e130	154	235	340	263	92	27	20
5	23	21	68	72	e120	127	208	295	243	68	31	18
6	24	21	65	67	e120	116	191	268	305	66	61	16
7	25	21	61	96	117	113	177	254	820	62	32	15
8	21	19	56	100	114	107	167	239	576	58	26	15
9	20	19	62	89	109	105	164	250	424	57	24	15
10	19	20	62	81	108	219	181	260	345	64	22	14
11	44	23	58	80	185	187	168	221	283	76	20	13
12	67	21	59	77	158	159	157	298	253	70	20	12
13	67	19	65	68	135	148	163	757	254	69	19	12
14	58	19	82	64	123	143	255	934	274	67	19	13
15	63	18	95	62	117	134	368	654	322	67	18	23
16	57	18	84	57	111	141	339	478	317	59	18	78
17	56	18	81	55	111	138	272	400	272	40	20	41
18	48	18	121	52	106	133	233	800	226	37	19	28
19	45	19	126	43	102	132	215	748	202	36	17	23
20	42	21	109	65	100	148	252	530	190	38	24	21
21	38	22	99	60	116	194	225	435	176	37	42	19
22	36	21	88	57	114	210	217	370	155	36	35	20
23	36	20	85	54	105	182	214	321	140	42	26	25
24	40	19	90	65	98	174	191	289	129	55	24	22
25	38	35	85	e97	94	168	198	262	120	46	24	18
26	33	98	77	91	91	181	228	250	155	37	21	19
27	29	67	81	88	94	583	203	235	155	33	18	79
28	26	56	82	90	89	411	425	1020	198	33	17	173
29	25	56	77	98	---	320	614	2020	168	34	27	104
30	23	67	68	141	---	278	482	769	133	31	39	72
31	22	---	76	170	---	252	---	537	---	27	27	---
TOTAL	1136	858	2548	2479	3409	5675	7486	15532	8220	1798	795	1003
MEAN	36.65	28.60	82.19	79.97	121.8	183.1	249.5	501.0	274.0	58.00	25.65	33.43
MAX	67	98	126	170	203	583	614	2020	820	126	61	173
MIN	19	18	56	43	89	81	157	221	120	27	17	12
CFSM	0.40	0.31	0.90	0.87	1.33	2.00	2.72	5.46	2.99	0.63	0.28	0.36
IN.	0.46	0.35	1.03	1.01	1.38	2.30	3.04	6.30	3.33	0.73	0.32	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	116.4	177.5	211.2	194.5	197.7	303.0	353.8	254.1	159.3	106.6	88.31	84.42
MAX	613	439	561	665	709	577	867	604	655	528	1101	511
(WY)	1956	1973	1974	1996	1981	1977	1993	1989	1972	1947	1955	1987
MIN	14.1	17.1	35.5	18.3	62.2	131	135	92.9	43.0	19.8	14.2	9.18
(WY)	1964	1965	1981	1981	1980	1989	1995	1995	1962	1965	1964	1964

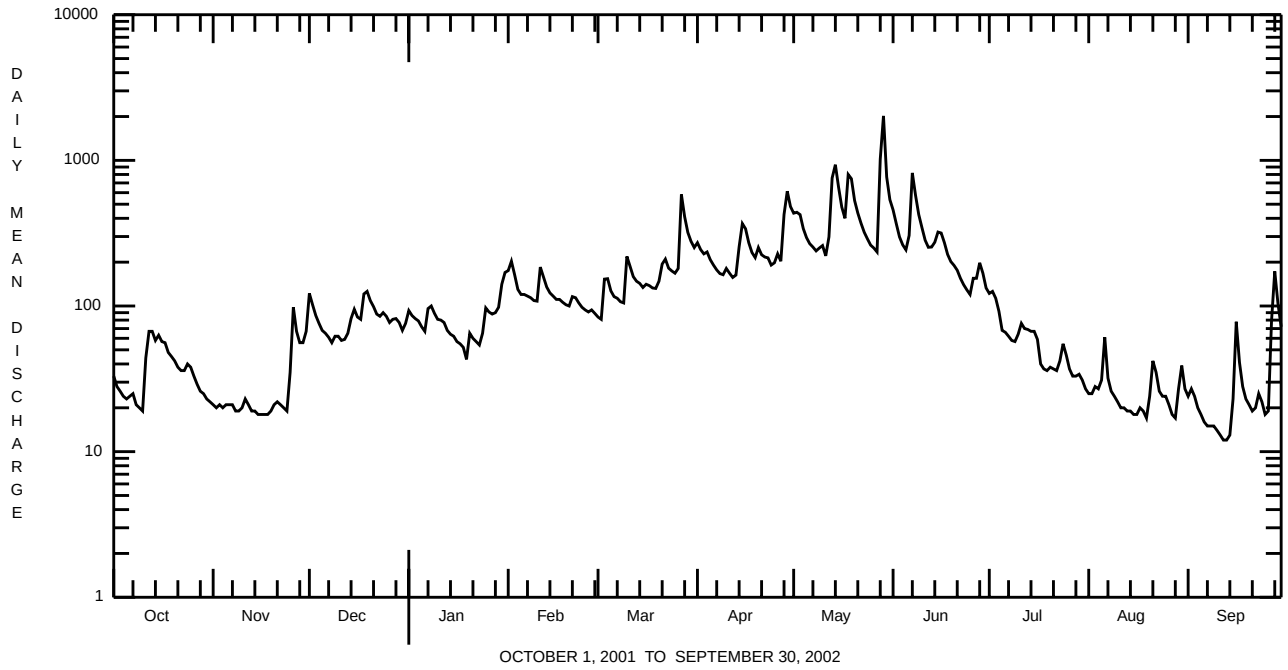
e Estimated.

LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1944 - 2002	
ANNUAL TOTAL	41203		50939			
ANNUAL MEAN	113		140		187	
HIGHEST ANNUAL MEAN					268	1973
LOWEST ANNUAL MEAN					86.2	1965
HIGHEST DAILY MEAN	674	Apr 10	2020	May 29	18900	Aug 19 1955
LOWEST DAILY MEAN	18	Nov 15-18	12	Sep 12,13	7.0	Sep 26 1964
ANNUAL SEVEN-DAY MINIMUM	18	Nov 13	13	Sep 8	7.4	Sep 21 1964
MAXIMUM PEAK FLOW			5440	May 28	**a**31900	Aug 19 1955
MAXIMUM PEAK STAGE			8.34	May 28	**b**16.37	Aug 19 1955
INSTANTANEOUS LOW FLOW					7.0	Sep 26 1964
ANNUAL RUNOFF (CFSM)	1.23		1.52		2.04	
ANNUAL RUNOFF (INCHES)	16.71		20.66		27.72	
10 PERCENT EXCEEDS	238		301		386	
50 PERCENT EXCEEDS	79		82		126	
90 PERCENT EXCEEDS	23		20		32	

a From rating curve extended above 1,700 ft^3/s on basis of slope-area measurement of peak flow.
b From floodmark.



01447500 LEHIGH RIVER AT STODDARTSVILLE, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1926 to 1982; April 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water years 1981 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.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 31.5°C, July 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 30.0°C, Aug. 2; 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													
01...	1200	9813	279	30	11.6	6.3	61	9.5	16	4.59	4.7	1.00	1.0
JUN													
04...	1330	9813	263	30	9.8	6.4	54	16.3	15	4.38	4.5	.88	.9
AUG													
08...	0940	9813	26	30	9.5	7.1	89	15.4	23	6.86	6.9	1.39	1.4

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													
01...	18	5	7.0	60	<2	<.020	.15	<.040	.45	.01	.014	.9	<4
JUN													
04...	18	5	6.0	80	4	<.020	.11	<.040	.34	.01	.014	1.4	<4
AUG													
08...	7.0	12	6.3	72	4	<.020	.16	<.040	.37	<.01	<.010	1.8	<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											
01...	<4	60	180	<1.0	<1.0	50	90	<4.0	<4.0	10	10
JUN											
04...	<4	120	260	<1.0	<1.0	60	70	<4.0	<4.0	10	10
AUG											
08...	<4	50	50	<1.0	<1.0	30	40	<4.0	<4.0	<5.0	<5.0

LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, 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	14.5	10.0	11.5	9.5	4.5	7.0	11.0	8.0	10.0	0.0	0.0	0.0
2	16.0	9.0	12.0	11.5	7.0	9.5	8.0	5.5	7.0	0.0	0.0	0.0
3	17.0	10.5	13.5	12.5	9.0	11.0	6.0	4.0	5.0	0.0	0.0	0.0
4	17.5	11.5	14.5	11.0	7.5	9.0	6.0	3.5	5.0	0.5	0.0	0.0
5	17.5	11.5	14.5	8.5	5.5	7.0	9.0	5.5	7.0	0.5	0.0	0.0
6	15.0	12.0	14.0	7.5	5.0	6.0	9.0	7.0	8.0	0.5	0.0	0.0
7	12.0	8.5	10.0	8.0	4.0	6.0	9.0	6.0	8.0	0.0	0.0	0.0
8	11.0	6.0	8.5	8.0	4.0	6.5	6.0	2.5	4.5	0.0	0.0	0.0
9	10.5	4.5	7.5	7.5	4.5	6.5	4.0	2.5	3.0	0.5	0.0	0.0
10	12.5	5.5	8.5	6.5	3.0	4.5	3.5	1.0	2.5	0.5	0.0	0.5
11	13.5	7.5	10.0	5.5	2.5	4.5	4.5	2.5	3.0	0.5	0.5	0.5
12	14.5	10.0	12.0	3.5	0.5	2.0	3.0	1.0	2.5	0.5	0.0	0.5
13	16.0	12.0	14.0	4.0	0.0	2.0	5.5	3.0	4.5	0.5	0.0	0.5
14	15.0	14.0	14.5	5.0	0.5	2.5	7.0	5.5	6.0	0.5	0.0	0.5
15	15.5	12.0	14.0	7.5	3.5	5.0	7.0	3.0	5.0	0.5	0.0	0.5
16	14.0	9.5	11.5	8.5	4.5	6.5	3.5	2.0	2.5	0.5	0.0	0.5
17	11.5	8.5	10.5	7.0	4.0	5.5	4.0	3.0	3.0	0.5	0.0	0.5
18	10.5	6.5	8.0	6.5	2.5	4.5	4.5	3.5	4.0	0.5	0.0	0.0
19	10.0	5.5	7.5	7.0	3.5	5.0	4.5	3.0	3.5	0.0	0.0	0.0
20	12.0	7.5	9.5	6.0	3.0	5.0	3.5	2.5	3.0	0.0	0.0	0.0
21	12.5	7.0	9.5	4.0	1.5	3.0	2.5	0.5	2.0	0.0	0.0	0.0
22	12.0	9.5	10.5	4.0	1.0	2.5	---	---	---	0.5	0.0	0.0
23	13.0	10.0	11.5	4.5	1.0	3.0	---	---	---	0.5	0.0	0.5
24	16.5	12.5	14.0	7.5	3.5	5.5	2.5	1.0	2.0	1.0	0.5	0.5
25	15.0	11.0	13.5	10.0	7.5	9.0	---	---	---	0.5	0.0	0.5
26	11.0	7.0	9.5	9.5	7.0	8.5	---	---	---	1.0	0.0	0.5
27	7.5	6.0	7.0	7.5	5.5	6.5	---	---	---	1.5	0.0	0.5
28	7.5	4.5	5.5	9.5	7.0	8.5	---	---	---	2.0	0.0	1.0
29	7.5	2.5	5.0	8.5	8.5	8.5	---	---	---	3.0	0.5	1.5
30	8.5	4.5	6.0	11.0	8.5	10.0	---	---	---	3.5	2.0	3.0
31	6.0	4.5	5.5	---	---	---	0.0	0.0	0.0	3.0	2.0	2.5
MONTH	17.5	2.5	10.4	12.5	0.0	6.0	11.0	0.0	4.4	3.5	0.0	0.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			**MARCH**			**APRIL**			**MAY**	
1	3.5	2.0	2.5	4.0	0.0	1.5	10.5	8.0	9.0	12.0	7.0	9.5
2	2.0	0.0	1.0	3.5	0.5	2.0	9.5	6.0	7.5	11.5	9.5	10.5
3	1.0	0.0	0.5	7.0	3.0	5.0	9.5	7.0	8.5	11.0	9.5	10.5
4	1.5	0.0	0.5	4.5	0.5	2.5	9.0	5.0	6.5	13.0	7.5	10.5
5	0.5	0.0	0.0	2.0	0.5	1.0	6.5	4.5	5.5	15.0	9.5	12.5
6	1.5	0.0	0.5	4.0	0.5	2.0	6.5	3.5	4.5	15.0	11.0	13.5
7	2.5	0.5	1.0	5.5	2.0	3.5	8.0	2.5	5.0	16.0	13.5	14.5
8	3.5	0.0	1.5	8.0	3.0	5.0	8.5	5.5	6.5	17.0	13.5	15.0
9	4.0	1.5	2.5	9.0	6.0	7.5	11.0	7.5	9.0	15.5	12.0	13.0
10	4.0	2.5	3.0	9.0	3.0	6.0	13.5	9.0	11.0	16.5	11.5	14.0
11	4.0	0.5	2.5	3.5	1.0	2.0	13.0	8.0	10.5	16.5	11.5	14.0
12	1.5	0.0	1.0	3.5	2.0	2.5	10.5	8.5	9.5	14.0	11.5	12.5
13	2.5	0.0	1.0	4.0	2.5	3.0	12.0	10.0	11.0	12.0	11.5	12.0
14	1.5	0.0	0.5	9.0	4.0	6.0	15.0	10.5	12.5	12.0	10.5	11.5
15	2.5	0.0	1.0	10.5	6.5	8.0	16.5	13.0	14.5	13.0	9.5	11.5
16	4.5	1.0	2.5	9.5	6.0	8.5	18.5	14.0	16.0	14.5	10.0	12.5
17	3.5	1.5	2.5	6.0	3.5	4.5	20.0	15.0	17.5	16.0	13.0	14.5
18	3.0	0.0	1.5	3.5	3.0	3.5	21.0	16.5	18.5	14.5	10.5	12.0
19	3.5	0.0	1.5	5.0	3.0	4.0	21.0	16.5	18.5	13.0	9.0	11.0
20	5.0	2.5	3.5	4.0	2.5	3.0	18.5	14.0	16.0	11.5	9.5	10.5
21	6.5	4.5	5.5	7.5	2.5	4.5	14.0	10.5	12.0	11.5	8.5	10.0
22	5.0	3.5	4.0	4.5	1.0	2.0	10.5	9.0	10.0	13.5	8.5	11.0
23	5.0	2.0	3.5	4.5	0.5	2.0	11.5	7.5	9.0	15.5	10.0	13.0
24	5.0	0.5	2.5	5.5	2.0	4.0	13.0	7.0	9.5	16.5	12.0	14.5
25	5.5	1.5	3.5	5.0	3.5	4.0	10.5	7.5	9.0	17.5	13.5	15.5
26	7.0	3.0	4.5	3.5	2.5	3.0	11.0	6.5	8.5	17.0	14.5	15.5
27	5.5	2.0	4.0	4.0	3.0	3.5	12.5	7.0	9.5	18.5	15.0	17.0
28	3.5	0.5	2.0	6.0	2.0	4.0	11.0	9.5	10.0	19.0	14.5	16.5
29	---	---	---	8.0	4.0	6.0	10.0	8.5	9.5	16.5	14.0	15.0
30	---	---	---	10.0	7.0	8.5	9.0	7.5	8.5	19.0	15.0	17.0
31	---	---	---	10.5	7.5	9.0	---	---	---	19.0	16.5	18.0
MONTH	7.0	0.0	2.1	10.5	0.0	4.2	21.0	2.5	10.4	19.0	7.0	13.2

LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, 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	18.0	24.5	19.0	21.5	29.5	20.5	25.0	18.5	16.0	17.0
2	19.5	16.0	17.5	26.5	20.5	23.0	30.0	21.0	25.0	19.5	16.0	17.5
3	18.0	14.5	16.5	28.0	22.0	24.5	28.5	21.5	25.0	24.0	16.0	19.5
4	17.0	15.0	16.0	28.0	22.5	25.0	28.5	21.0	25.0	25.0	19.0	21.5
5	20.0	16.0	17.5	25.5	20.0	22.5	26.0	21.5	23.5	22.5	17.5	20.0
6	19.0	16.0	18.0	22.5	18.0	20.0	24.5	19.5	21.5	22.5	14.5	18.5
7	17.5	14.5	16.0	23.0	16.0	19.5	22.0	16.5	19.0	22.5	14.5	18.5
8	19.0	15.5	17.5	24.5	16.0	20.0	24.0	15.0	19.0	23.0	14.5	19.0
9	20.0	16.0	18.0	23.5	18.0	20.5	25.0	15.5	20.0	24.0	15.0	19.5
10	21.5	17.0	19.0	25.5	19.5	21.5	26.0	16.0	21.0	24.5	17.0	20.5
11	22.0	18.0	20.0	24.0	17.0	20.0	26.5	17.0	22.0	21.0	16.5	18.5
12	20.5	19.0	20.0	24.5	15.5	19.5	27.0	19.0	22.5	19.5	13.0	16.5
13	19.5	18.0	18.5	23.0	16.0	19.5	28.5	20.0	24.0	20.0	12.0	16.0
14	18.0	15.5	16.5	21.5	18.5	20.0	28.0	20.5	24.0	21.0	13.5	17.5
15	16.0	15.0	15.5	25.0	18.0	21.0	28.0	20.5	24.5	20.0	18.5	19.0
16	18.0	15.0	16.0	26.0	19.0	22.0	28.5	22.0	25.0	19.5	17.5	18.5
17	18.5	14.5	16.5	26.5	17.5	22.0	28.5	21.5	25.0	21.5	15.0	18.0
18	18.5	14.5	16.5	26.0	20.5	23.0	28.5	21.5	25.0	20.0	14.0	16.5
19	19.0	15.5	17.0	26.5	20.5	23.0	26.5	20.5	24.0	18.5	14.0	16.5
20	21.0	16.5	18.5	27.0	20.0	23.0	25.0	21.5	23.0	21.0	16.5	18.5
21	22.0	17.0	19.5	26.0	19.5	22.5	26.0	18.0	21.5	21.0	18.0	19.5
22	23.0	18.0	20.0	28.0	20.0	24.0	24.0	18.5	21.0	20.5	19.0	19.5
23	23.5	19.5	21.0	26.0	21.0	23.0	25.0	21.0	22.5	20.5	16.5	18.5
24	24.5	19.5	21.5	24.0	20.0	21.5	22.5	20.0	21.0	19.0	12.5	16.0
25	24.5	20.0	22.0	25.0	19.5	21.5	25.5	18.0	21.0	17.5	12.5	15.0
26	23.0	19.0	20.5	22.0	18.5	20.0	23.0	17.0	20.0	15.5	14.0	14.5
27	22.5	19.0	20.5	21.5	18.5	20.0	23.5	17.0	20.5	16.0	13.5	14.5
28	22.5	19.5	20.5	23.0	19.5	21.0	21.5	19.0	20.0	17.0	15.0	16.0
29	23.5	18.5	21.0	28.0	20.5	23.5	19.0	16.5	17.5	17.0	12.5	14.5
30	24.0	18.5	21.0	27.5	22.0	24.5	19.5	16.5	17.5	16.5	13.0	14.5
31	---	---	---	28.5	20.0	24.0	21.5	14.5	18.0	---	---	---
MONTH	24.5	14.5	18.6	28.5	15.5	21.8	30.0	14.5	22.0	25.0	12.0	17.6
YEAR	30.0	0.0	11.1									