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Daily maximum and minimum water temperatures, Gloucester Point, Virginia : May 28, 1952 to December 31, 1958, inclusive

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VFL Special Scientific Report No. 16

DAILY MAXIMUM AND MINIMUM WATER TEMPERATURES
GLOUCESTER POINT, VIRGINIA

May 28, 1952 to December 31, 1958, inclusive.

In May 1952 a Foxboro Temperature Recorder, Serial J77379, was installed at the end of the Virginia Fisheries Laboratory pier, in the York River at Gloucester Point. The water at this point is about 5 feet deep at low water, and the sensitive element of the thermograph was originally laid on the bottom. The instrument was calibrated at the factory before delivery, and was adjusted to read correctly at 70°F and 40°F after installation. The chart, powered by an 8-day clockwork motor, was changed weekly.

The instrument operated satisfactorily until about the end of November 1952, when it became obvious, by comparison with surface water temperatures taken in conjunction with operation of a Coast and Geodetic Survey tide gauge, that something was wrong. The entire instrument was returned to the manufacturer for repair, and was re-installed and calibrated early in March 1953, but was obviously in error again in April 1953.

The manufacturer diagnosed the trouble as leakage of salt water through the flexible cable, causing corrosion of the cast iron weld between bulb and capillary tubing. To correct the difficulty, the bulb and capillary tubing leading to the recording device were enclosed in a solid stainless steel armor. The modified instrument was installed and calibrated as before, about mid-June 1953, and has given satisfactory performance continuously for the ensuing 5 1/2 years. Since June 1953 the bulb has been located about six inches above the river bottom.

Shortly after the instrument was first installed, a peculiar fluctuation was observed on the temperature trace, beginning about 5 a.m. The typical pattern was a drop of about 1°F in about 20 minutes, followed by a rise of about 1.5°F in a period of about 3/4 hour, and a slower drop to the pre-5 o'clock level. It was discovered that the phenomenon occurred only on sunny days and was caused by the rays of the rising sun, warming a portion of the face of the instrument, and slowly moving across the face until blocked by the walls of the building in which the device was housed. The difficulty was eliminated by shielding the recording device from the direct rays of the sun. The shield was not always in place, however, and the record was corrected when necessary.

Maximum and minimum daily readings were recorded to the nearest half degree and these are presented in tabular and graphic form. The potential range of temperature is illustrated by a separate graph of the greatest maximum and least minimum observed in the seven-year period. A check on the performance of the instrument was provided by daily surface water temperature readings, which approximated the maximum daily temperature on the trace. Periodic checks at the depth of the sensitive element were made with a reversing thermometer, and in 1958 with an electronic temperature-measuring device using a thermister bead as a sensitive element. The original charts are on file at the Virginia Fisheries Laboratory.

J. L. McHugh
12 January 1959

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1952

	Jan.		Feb.		Mar.		April		May		June	
Date	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1											70.5	68.5
2											73.0	70.0
3											74.0	70.5
4											74.0	72.0
5											77.0	73.0
6											76.5	73.5
7											75.5	74.0
8											78.5	74.0
9											77.0	75.0
10											77.0	75.0
11											75.0	74.0
12											74.0	71.5
13											77.0	71.5
14											77.0	74.0
15											76.5	75.0
16											78.5	74.0
17											78.5	76.0
18											77.0	74.5
19											79.0	74.5
20											79.0	75.5
21											78.0	76.5
22											77.5	76.5
23											79.0	76.0
24											79.5	77.0
25											80.5	77.5
26											83.0	78.0
27											85.0	81.0
28									73.0	70.5	85.5	82.0
29									74.0	69.5	85.5	83.0
30									72.5	69.5	84.5	81.0
31									71.0	70.0	81.0	78.5

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1952

Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	80.5	75.5	83.0	81.5	80.5	80.0	75.5	72.5	58.0	56.0	-	-
2	80.0	75.5	82.5	81.5	82.0	80.0	75.0	72.5	57.5	56.0	-	-
3	81.0	78.0	82.5	80.5	80.5	79.5	73.0	70.5	57.5	56.0	-	-
4	81.5	78.5	84.0	81.0	79.0	78.0	72.0	69.0	56.5	55.5	-	-
5	81.5	78.5	83.0	81.5	78.0	77.0	72.0	68.0	56.0	54.5	-	-
6	80.0	79.0	83.0	81.5	78.0	76.0	72.5	69.0	55.5	54.5	-	-
7	80.0	78.5	81.5	80.5	77.5	76.5	71.0	68.5	55.0	53.5	-	-
8	81.0	79.5	81.0	80.5	76.5	75.5	69.0	67.0	54.5	52.5	-	-
9	79.5	77.5	82.5	80.0	75.5	75.0	67.5	66.0	54.0	53.0	-	-
10	80.5	78.5	82.0	81.0	76.0	74.5	66.5	65.5	54.5	54.0	-	-
11	83.0	79.0	84.0	81.0	77.0	75.0	66.0	64.5	54.0	53.0	-	-
12	82.5	79.5	83.5	82.0	78.5	76.0	65.5	65.0	53.5	52.5	-	-
13	83.0	80.0	83.0	82.0	78.0	77.0	66.5	64.5	53.5	52.0	-	-
14	83.0	80.5	83.5	82.0	79.0	76.5	67.5	65.0	54.0	52.0	-	-
15	83.0	80.5	84.5	82.5	78.5	77.5	66.0	65.0	53.5	53.0	-	-
16	83.5	80.5	83.0	83.0	78.5	77.0	66.5	65.5	54.5	53.0	-	-
17	85.0	81.0	81.0	80.0	78.0	77.0	66.0	65.0	55.0	53.0	-	-
18	84.0	81.5	83.5	81.5	78.0	76.5	66.5	65.0	55.0	53.0	-	-
19	84.5	80.5	82.5	81.5	77.5	76.5	66.0	64.5	55.5	53.5	-	-
20	85.0	82.5	83.5	81.0	77.5	76.0	64.0	62.0	-	-	-	-
21	86.5	83.0	83.0	81.0	76.5	75.5	62.0	61.0	-	-	-	-
22	87.0	85.0	82.0	80.5	76.0	74.0	62.0	60.0	-	-	-	-
23	85.5	83.0	80.5	79.0	74.5	73.5	62.0	59.5	-	-	-	-
24	85.0	82.5	79.5	78.0	73.5	72.0	61.5	60.0	-	-	-	-
25	84.5	83.0	79.0	77.0	73.0	71.0	61.0	60.0	-	-	-	-
26	84.5	82.0	79.0	76.5	74.0	71.0	60.5	59.0	-	-	-	-
27	86.0	83.0	78.0	76.5	73.5	72.0	60.0	59.0	-	-	-	-
28	85.5	83.5	77.5	76.0	73.5	71.5	60.0	57.5	-	-	-	-
29	85.5	83.5	79.0	77.0	73.0	71.5	58.0	56.0	-	-	-	-
30	-	-	81.0	78.0	74.0	71.0	56.5	55.0	-	-	-	-
31	84.5	83.0	81.0	79.5			59.0	55.0	-	-	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1953

Date	Jan.		Feb.		Mar.		April		May		June	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	-	-	-	-	-	-	53.5	50.0	-	-	-	-
2	-	-	-	-	-	-	52.0	50.5	-	-	-	-
3	-	-	-	-	-	-	55.0	51.5	-	-	-	-
4	-	-	-	-	-	-	55.5	53.0	-	-	-	-
5	-	-	-	-	-	-	56.0	53.0	-	-	-	-
6	-	-	-	-	46.5	45.0	56.0	54.0	-	-	-	-
7	-	-	-	-	47.5	45.0	55.5	53.5	-	-	-	-
8	-	-	-	-	46.0	44.5	56.0	53.0	-	-	-	-
9	-	-	-	-	45.5	44.0	57.5	54.5	-	-	-	-
10	-	-	-	-	46.0	44.0	59.5	56.0	-	-	-	-
11	-	-	-	-	46.5	44.5	60.0	56.0	-	-	-	-
12	-	-	-	-	46.5	45.0	58.5	57.0	-	-	-	-
13	-	-	-	-	48.0	45.5	57.0	55.5	-	-	76.5	74.5
14	-	-	-	-	50.0	46.5	56.0	54.0	-	-	75.0	73.5
15	-	-	-	-	50.0	47.5	57.0	54.0	-	-	74.0	72.5
16	-	-	-	-	52.0	48.0	56.0	54.0	-	-	76.0	72.0
17	-	-	-	-	53.0	48.5	56.0	54.0	-	-	73.0	71.5
18	-	-	-	-	51.0	49.5	57.0	54.5	-	-	74.5	71.0
19	-	-	-	-	52.0	49.5	-	-	-	-	77.0	73.0
20	-	-	-	-	52.5	50.0	-	-	-	-	79.5	74.0
21	-	-	-	-	53.5	51.0	-	-	-	-	81.0	75.0
22	-	-	-	-	55.0	51.5	-	-	-	-	80.0	76.0
23	-	-	-	-	54.0	52.5	-	-	-	-	82.0	75.0
24	-	-	-	-	54.5	52.5	-	-	-	-	81.0	77.0
25	-	-	-	-	54.0	52.5	-	-	-	-	80.5	77.0
26	-	-	-	-	52.0	51.0	-	-	-	-	83.0	77.0
27	-	-	-	-	51.0	50.0	-	-	-	-	82.5	78.5
28	-	-	-	-	52.5	49.5	-	-	-	-	82.0	79.0
29	-	-	-	-	51.0	50.0	-	-	-	-	81.5	78.0
30	-	-	-	-	50.5	49.0	-	-	-	-	84.5	78.5
31	-	-	-	-	51.5	49.0	-	-	-	-	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1953

Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	82.5	79.0	85.0	81.0	83.0	79.0	73.5	71.0	62.0	60.5	51.0	49.0
2	83.0	79.5	83.0	81.0	83.5	79.0	74.0	71.5	62.5	59.5	51.0	48.0
3	83.0	80.0	82.5	78.5	84.5	79.5	74.0	71.0	63.0	60.0	49.5	46.5
4	81.5	80.0	80.5	78.0	84.0	80.5	74.5	71.5	62.0	60.0	50.0	47.0
5	83.5	80.0	82.0	79.0	83.5	80.0	74.5	72.0	61.0	57.0	52.0	50.0
6	83.0	81.0	80.5	77.5	80.0	78.0	73.0	71.0	58.0	53.5	53.5	49.5
7	84.0	80.0	79.0	77.0	78.5	77.0	71.0	69.0	55.0	50.5	52.5	50.5
8	82.0	80.5	79.0	77.5	79.0	76.0	69.5	66.0	55.0	51.0	52.5	49.0
9	82.5	79.5	- ?	78.0	77.0	75.0	68.0	65.5	54.5	51.5	53.0	50.0
10	80.0	78.5	81.0	- ?	76.0	74.0	68.0	65.0	53.5	51.0	52.5	51.0
11	79.0	77.0	81.0	78.5	77.0	72.5	68.0	65.0	54.0	51.5	51.5	49.0
12	78.0	76.0	83.0	79.0	77.0	74.0	68.0	64.5	53.5	51.0	51.5	50.0
13	78.5	75.0	80.0	78.5	75.5	73.5	67.0	65.0	54.0	51.0	51.0	50.0
14	77.5	75.0	78.5	77.5	75.0	72.0	67.0	64.0	53.5	51.5	52.0	50.0
15	79.0	75.0	82.0	77.5	75.0	72.0	67.5	65.0	53.5	51.5	50.5	48.0
16	81.0	76.0	82.5	78.5	76.0	73.0	68.0	65.5	54.0	52.0	49.0	47.5
17	81.5	77.5	81.0	78.5	74.5	73.0	67.5	65.5	54.5	52.5	48.5	44.5
18	82.5	79.0	80.0	78.0	75.0	73.0	67.0	65.5	54.5	53.0	45.5	43.0
19	81.5	79.0	80.5	77.5	73.5	71.5	68.0	65.5	55.0	53.0	45.0	42.0
20	81.0	78.5	81.0	77.5	74.0	72.0	69.0	66.5	55.5	53.0	44.0	40.5
21	83.5	79.0	79.0	77.5	74.5	73.0	67.5	66.0	55.5	53.5	44.0	42.0
22	83.5	81.0	78.0	76.0	73.5	72.0	66.0	64.0	56.5	53.5	46.5	43.0
23	81.5	79.0	79.0	75.5	72.5	70.0	65.0	63.0	57.0	54.5	44.5	43.0
24	83.0	79.0	78.5	76.0	73.0	69.5	64.5	63.0	55.5	54.0	43.0	40.5
25	80.0	79.0	81.0	76.0	71.5	69.5	64.0	62.0	55.0	53.5	42.0	40.0
26	81.0	77.5	81.0	77.5	72.0	70.0	64.5	61.5	54.0	52.0	42.5	39.5
27	82.0	78.0	81.0	77.5	71.0	69.5	64.0	61.0	53.0	51.0	43.0	40.5
28	82.0	78.5	82.5	77.5	71.0	69.5	64.0	62.0	53.0	50.0	41.5	40.5
29	83.5	79.5	81.0	78.0	72.5	69.5	64.0	61.5	52.0	48.5	42.5	41.5
30	83.5	79.5	81.5	78.0	74.0	70.5	63.0	61.0	50.5	48.0	43.0	42.0
31	84.0	80.0	82.5	78.5	-	-	63.0	60.5	-	-	43.0	41.5

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1954

Date	Jan.		Feb.		Mar.		April		May		June	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	43.0	41.0	40.5	36.5	49.0	45.0	52.5	50.0	68.5	63.0	77.0	70.5
2	44.0	40.5	39.5	38.0	49.0	44.0	53.5	49.0	72.0	64.5	73.0	71.0
3	43.5	42.0	40.0	38.0	46.5	45.0	53.5	49.5	72.0	67.0	76.0	71.5
4	43.5	41.5	39.5	39.0	45.0	43.0	50.0	47.0	68.0	66.0	74.0	71.5
5	43.0	41.0	39.5	38.5	45.0	42.0	51.0	46.5	67.0	64.0	72.5	70.5
6	43.0	41.5	40.0	38.0	45.0	42.0	53.5	48.5	65.5	62.0	72.0	70.5
7	42.0	40.0	39.5	37.5	47.0	42.0	58.0	51.0	65.5	63.0	72.0	70.5
8	43.0	40.0	39.0	37.0	48.0	43.0	57.0	53.0	66.0	64.0	73.5	71.0
9	42.5	39.5	41.0	38.0	46.5	44.0	57.5	52.0	65.5	64.0	75.0	72.0
10	42.5	41.5	41.0	38.0	47.0	44.0	59.0	52.5	64.0	61.5	75.0	72.0
11	42.0	40.0	42.0	39.0	47.0	44.5	57.5	53.0	64.0	61.0	75.0	72.5
12	40.0	36.5	40.0	38.5	46.0	45.0	57.0	53.5	65.0	61.5	79.0	72.5
13	39.5	36.5	38.5	36.0	46.0	45.0	59.5	54.5	63.0	62.0	78.0	73.0
14	38.0	36.0	41.0	36.0	47.5	45.0	59.0	55.0	61.5	60.0	80.5	72.5
15	38.5	37.0	44.5	39.5	46.0	44.0	60.5	55.0	61.0	59.0	81.0	75.0
16	39.5	38.0	46.0	41.0	47.0	43.0	61.5	57.0	64.0	59.5	77.5	74.5
17	39.0	37.5	46.5	41.5	46.0	43.5	61.0	56.0	65.5	61.0	75.5	74.0
18	39.0	36.0	45.0	40.5	48.0	44.0	60.0	54.0	64.5	62.0	74.5	72.0
19	39.5	37.0	46.5	42.0	49.5	44.5	63.0	56.0	66.5	62.5	76.0	71.0
20	42.0	38.5	46.5	43.0	48.0	46.0	67.0	59.0	64.5	63.5	77.0	71.5
21	42.5	40.0	46.5	43.0	46.5	44.5	67.0	59.5	64.0	62.0	78.5	73.0
22	40.0	37.5	45.0	43.0	49.0	43.0	68.0	61.0	65.5	62.0	79.0	74.5
23	38.0	37.0	46.0	43.5	48.0	45.0	66.0	62.0	66.5	62.0	77.0	75.0
24	37.5	36.5	45.0	44.0	51.0	46.0	65.0	62.0	69.0	64.0	78.0	74.0
25	38.5	37.0	46.0	43.5	51.5	47.0	67.5	63.0	67.5	64.0	78.0	75.0
26	40.0	37.5	46.0	44.5	51.0	47.5	69.0	63.5	70.5	64.5	78.0	75.0
27	42.0	38.5	47.5	43.5	52.0	49.0	68.5	63.5	71.0	66.0	78.5	75.5
28	39.5	38.0	49.5	45.0	53.0	48.5	66.5	63.0	72.5	67.5	75.5	74.0
29	39.5	37.5	-	-	54.0	49.0	66.0	63.0	74.0	68.5	75.0	73.0
30	39.5	37.5	-	-	54.0	50.0	66.5	62.5	73.0	68.0	76.5	73.5
31	40.0	37.5	-	-	54.0	51.0	-	-	75.0	68.5	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
 - Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
 1954

Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1.	79.5	74.5	81.5	79.0	79.0	76.5	77.0	73.5	59.0	56.0	49.5	47.0
2	82.0	76.0	83.0	78.5	79.0	75.5	76.0	73.5	59.0	56.0	49.0	47.0
3	81.0	77.0	80.5	78.5	78.0	75.0	76.0	73.5	57.5	53.0	48.0	46.0
4	79.0	77.0	80.5	79.0	79.5	76.0	76.0	74.0	56.0	53.0	47.5	46.0
5	81.0	77.5	80.5	79.0	80.0	76.5	77.0	74.5	56.0	53.5	47.5	46.0
6	79.5	77.0	79.5	78.0	81.0	77.5	78.0	74.0	55.0	53.0	45.0	42.5
7	79.5	77.0	79.5	77.0	83.0	79.0	74.0	70.0	54.5	51.5	43.0	39.0
8	78.5	77.0	80.0	77.5	83.5	79.0	72.0	68.0	54.5	52.0	43.0	40.0
9	77.5	75.0	78.5	76.5	83.0	79.5	72.0	69.0	54.5	52.0	43.0	40.5
10	77.5	74.5	80.0	77.0	80.5	79.0	72.5	69.5	52.5	51.5	43.0	40.5
11	77.0	74.5	78.0	76.0	78.5	77.0	73.0	69.0	53.5	50.0	43.0	39.0
12	75.5	74.0	78.0	75.0	78.0	75.5	73.5	70.0	53.5	51.0	41.0	39.0
13	78.5	74.0	77.5	75.0	77.0	74.0	74.0	70.0	53.0	51.0	41.0	40.0
14	80.5	75.5	79.5	75.0	78.5	74.0	74.5	71.0	53.0	51.0	41.5	40.0
15	77.5	76.0	78.0	75.0	77.5	75.0	-	72.0	52.5	51.0	42.0	40.5
16	79.0	75.0	79.5	76.0	77.5	74.0	70.0	68.0	52.5	51.0	42.0	40.0
17	80.0	75.0	79.5	77.0	78.0	75.0	69.5	67.0	54.0	52.0	41.0	39.5
18	79.0	75.5	79.0	75.5	78.0	75.0	69.0	66.5	55.0	53.0	43.0	40.5
19	78.0	76.5	79.0	75.0	77.0	75.5	67.5	65.0	56.0	53.5	42.5	41.0
20	80.0	75.5	80.0	77.5	76.0	75.5	66.0	63.0	56.0	54.0	42.0	40.5
21	78.5	77.0	80.0	77.5	77.0	75.0	65.0	61.5	56.0	53.0	40.5	38.0
22	78.0	77.0	78.5	76.5	76.0	74.5	64.0	61.0	54.5	53.0	39.5	37.0
23	79.0	77.0	78.5	76.0	75.0	73.0	64.0	61.5	52.5	52.0	39.5	36.0
24	79.0	77.0	80.0	77.0	75.0	72.0	64.5	61.0	52.5	51.5	40.0	38.0
25	80.0	77.0	81.0	77.5	75.0	71.5	64.5	61.0	52.0	50.0	40.0	37.5
26	80.0	77.5	80.5	78.0	74.0	72.0	64.0	61.5	51.0	49.0	40.0	36.5
27	81.5	78.0	80.0	78.5	74.5	71.5	64.0	62.0	51.5	48.0	42.0	38.0
28	82.5	78.5	81.0	78.5	75.5	72.0	63.0	61.5	50.5	49.0	43.0	39.0
29	83.0	79.0	80.0	78.5	76.5	72.5	62.5	61.0	51.0	48.5	45.0	40.5
30	84.0	79.5	79.0	78.0	77.0	74.0	62.0	59.0	50.0	46.0	45.0	42.0
31	84.5	80.0	79.0	76.0	-	-	60.0	57.5	-	-	44.0	41.0

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1955

Date	Jan.		Feb.		Mar.		Apr.		May		June	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	44.0	41.5	37.5	34.0	44.0	41.5	51.5	46.5	61.0	59.5	72.0	69.5
2	44.0	42.0	37.0	35.5	45.0	42.5	52.0	47.0	63.0	59.5	71.0	69.5
3	44.5	42.0	36.5	34.0	47.0	43.0	51.5	47.0	64.0	60.0	70.0	69.5
4	44.5	42.0	35.5	33.0	49.5	44.0	52.0	48.0	66.5	60.5	71.0	68.0
5	45.0	42.5	36.0	33.0	51.0	45.0	54.5	48.5	68.5	62.5	72.0	68.5
6	45.5	42.5	38.0	34.0	49.0	45.5	52.5	49.5	68.0	63.0	75.0	70.0
7	43.5	42.0	38.5	35.5	47.0	44.5	52.0	49.5	69.5	64.0	72.0	70.0
8	44.0	41.0	37.5	36.0	47.0	43.5	51.0	47.0	66.0	63.0	72.0	70.0
9	42.0	41.5	39.5	35.5	50.0	43.5	54.5	49.0	65.5	63.0	70.0	68.0
10	42.5	41.0	40.0	35.5	50.5	45.0	56.0	51.0	68.5	62.5	71.5	67.5
11	41.5	40.5	40.5	36.5	50.5	47.0	56.5	52.5	67.5	64.5	70.0	68.0
12	41.0	39.0	37.0	34.0	51.0	47.5	60.5	54.0	70.0	65.0	71.0	68.5
13	40.5	39.0	36.0	33.0	51.5	47.0	59.0	55.0	67.5	65.5	70.0	68.0
14	40.0	38.0	36.0	32.0	52.0	49.0	60.0	56.0	65.0	64.5	69.5	68.0
15	39.5	38.0	38.0	35.0	51.5	50.0	58.5	55.0	65.5	63.5	70.5	68.0
16	39.5	38.0	39.0	35.0	52.0	47.0	63.0	56.0	67.5	63.0	72.5	69.0
17	40.0	38.0	39.5	35.0	51.5	47.0	60.5	58.0	65.0	63.0	76.5	70.5
18	40.0	38.0	38.0	35.0	50.5	49.0	60.0	58.0	66.0	62.0	76.5	72.5
19	38.5	36.5	40.0	36.0	49.0	48.0	61.0	57.0	66.5	63.0	75.0	73.0
20	38.5	36.0	41.0	37.0	51.0	48.0	62.0	59.0	71.0	64.0	77.0	72.0
21	37.5	35.5	43.0	37.5	50.5	48.0	63.0	58.0	72.0	65.0	78.5	74.0
22	38.0	36.0	43.0	38.5	54.5	48.0	64.5	58.0	69.5	67.0	80.0	73.5
23	37.5	36.5	42.5	39.5	50.0	46.5	62.0	59.5	71.0	67.0	79.0	75.0
24	37.5	37.0	40.0	39.0	51.5	47.0	65.0	60.5	71.0	67.5	77.0	75.0
25	38.0	36.5	42.0	38.0	49.5	48.5	62.5	60.5	72.0	68.5	78.0	75.5
26	38.5	36.0	42.5	38.5	50.5	48.0	61.0	60.0	72.0	69.0	78.0	75.0
27	37.5	37.0	42.5	40.0	48.0	45.0	60.0	59.0	75.0	69.5	77.0	74.5
28	37.5	34.0	43.5	40.5	48.0	42.0	60.0	58.5	75.5	72.0	77.0	75.0
29	37.0	35.0	-	-	48.0	45.0	60.5	58.0	76.0	71.5	80.0	75.0
30	35.5	34.0	-	-	48.0	45.0	61.5	59.0	74.0	71.0	79.0	75.5
31	36.0	33.5	-	-	49.5	45.5	-	-	72.0	70.5	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1955

Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	79.0	75.0	87.5	82.0	81.5	78.0	73.0	72.0	61.5	59.0	46.5	43.0
2	81.0	75.5	85.0	82.5	79.0	77.5	72.0	71.0	62.0	59.0	44.0	43.0
3	81.5	77.0	86.0	82.5	77.5	77.0	72.0	69.5	61.0	59.0	47.0	42.0
4	84.0	77.5	88.0	83.0	78.0	76.5	72.0	68.5	60.0	57.0	48.0	46.0
5	83.0	79.0	85.5	84.0	79.0	76.0	73.0	69.0	57.5	55.0	47.5	46.0
6	81.0	78.0	87.0	82.0	80.0	76.5	72.0	70.0	56.0	53.0	47.0	45.0
7	-	-	85.5	82.0	79.0	77.0	72.5	70.0	55.0	53.0	46.0	44.0
8	81.0	-	84.0	82.0	78.0	75.0	71.5	70.5	55.5	53.5	46.0	45.0
9	82.0	78.5	83.5	81.0	76.5	74.0	70.5	68.0	55.5	53.0	45.5	44.5
10	83.0	79.0	82.0	80.0	77.5	74.0	70.0	68.0	53.5	52.0	45.0	43.5
11	82.0	79.0	83.0	80.0	76.0	74.5	70.5	67.5	55.0	53.0	44.5	42.0
12	79.5	78.0	81.0	77.0	77.0	74.0	71.0	68.0	55.0	52.0	44.0	41.0
13	80.0	78.0	80.0	77.0	75.5	73.0	71.0	68.5	57.0	53.5	42.5	40.0
14	80.5	77.5	81.0	78.5	74.0	71.0	70.0	69.5	56.0	54.0	42.5	39.5
15	81.0	78.0	83.0	78.5	77.0	73.0	70.0	69.0	56.0	54.0	42.0	40.0
16	83.0	79.0	83.0	79.5	78.0	73.0	69.0	67.0	57.0	55.0	41.0	39.0
17	83.0	79.5	81.0	77.5	78.0	74.0	68.0	65.0	55.5	53.0	40.0	36.0
18	83.5	79.5	80.5	77.5	76.0	74.0	67.5	64.5	54.5	52.0	39.5	37.5
19	82.0	79.5	82.0	78.0	74.5	73.5	67.5	65.5	53.5	51.0	40.0	38.0
20	84.0	80.0	84.0	72.5	75.0	73.5	66.0	63.0	52.5	50.0	39.0	36.5
21	85.5	81.0	86.0	80.0	75.5	73.5	65.0	62.0	51.0	48.0	38.0	35.0
22	84.5	80.5	83.5	80.5	74.0	72.0	65.0	63.0	51.0	49.5	37.0	34.5
23	84.5	81.0	81.5	80.0	72.5	71.0	64.5	62.0	52.0	49.0	37.5	35.5
24	83.5	81.0	81.0	79.5	74.0	71.5	64.0	62.0	52.0	51.0	39.0	37.0
25	84.0	80.5	80.0	77.5	74.0	72.5	63.0	60.0	50.5	49.5	41.0	38.5
26	85.0	81.5	79.5	77.0	73.0	70.5	62.0	59.0	51.0	49.5	39.5	38.0
27	86.0	82.5	83.0	77.0	72.0	70.0	62.5	60.0	50.0	48.0	39.0	37.0
28	87.0	82.0	81.5	78.5	73.0	70.0	63.0	60.0	51.0	48.0	38.0	36.5
29	83.5	82.0	81.5	78.0	74.0	71.0	62.5	61.0	49.0	46.0	37.5	36.0
30	83.0	81.0	81.0	77.0	74.0	71.0	63.5	61.5	48.0	44.0	37.0	36.5
31	85.0	81.0	80.5	77.5	-	-	61.5	60.0	-	-	37.0	34.5

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1956

Date	Jan.		Feb.		Mar.		April		May		June	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	37.0	34.5	39.0	35.0	46.0	42.0	49.5	44.5	59.0	57.0	70.0	66.0
2	37.0	34.5	38.5	37.0	45.0	43.5	50.5	46.0	59.0	57.0	69.0	67.0
3	37.5	35.5	38.5	37.5	46.0	43.0	52.0	46.0	59.0	57.5	70.5	66.0
4	37.0	36.0	39.0	37.5	46.0	43.0	51.5	45.0	61.0	57.5	69.0	67.0
5	37.0	36.0	39.0	37.0	47.0	43.5	57.5	48.5	62.5	58.5	72.0	67.5
6	37.0	36.0	38.5	37.0	48.0	43.0	54.5	52.0	63.5	58.5	73.0	68.5
7	37.0	35.5	40.0	37.0	50.0	44.0	56.5	51.0	63.0	59.5	72.0	68.5
8	36.5	35.0	42.5	38.0	51.0	44.0	50.5	48.0	62.0	59.0	75.0	69.0
9	34.0	33.5	41.5	39.0	49.0	44.0	49.5	47.0	63.0	58.0	75.0	70.5
10	34.5	33.5	43.0	39.5	51.0	45.5	53.0	47.0	62.0	59.0	74.5	71.0
11	35.0	34.5	42.0	40.5	51.0	47.5	51.0	48.5	64.0	60.0	75.0	70.5
12	35.5	35.0	42.5	40.5	48.5	47.0	50.5	47.5	68.0	60.0	77.0	71.0
13	35.5	35.0	42.5	40.5	47.5	47.0	52.5	47.5	65.5	62.5	77.0	72.5
14	36.0	34.0	44.0	41.0	49.5	46.5	54.0	48.5	66.0	63.0	77.5	73.5
15	36.5	34.0	45.5	42.0	48.0	46.0	52.5	50.0	67.0	63.5	78.5	73.0
16	36.0	35.0	45.0	41.5	46.0	45.5	54.0	51.0	66.0	64.0	79.0	74.0
17	36.0	34.5	43.5	42.5	47.0	45.0	52.0	50.5	67.0	63.5	78.5	75.0
18	36.5	34.0	45.0	43.0	46.0	44.0	52.0	51.0	66.0	63.0	77.5	73.5
19	36.0	35.0	46.0	43.0	45.0	44.0	52.0	50.0	68.0	63.0	74.0	71.0
20	36.0	35.0	45.5	43.0	45.5	43.5	52.0	50.0	66.5	64.0	72.5	70.0
21	36.0	34.0	44.0	42.0	47.0	43.0	54.0	50.0	67.5	64.0	74.0	71.0
22	37.0	34.5	44.5	42.0	46.5	43.0	55.0	49.5	68.0	64.0	79.0	73.0
23	36.0	35.0	43.5	40.0	48.0	44.0	54.0	51.0	68.0	65.0	79.5	74.5
24	35.0	34.0	42.5	40.0	46.5	44.0	52.0	51.0	67.0	64.5	79.5	76.0
25	36.0	34.0	45.0	41.5	45.5	42.0	56.0	50.0	68.0	63.0	80.5	75.5
26	36.5	34.0	46.0	41.5	45.5	43.0	54.0	51.0	68.5	62.5	83.0	78.0
27	35.5	33.5	45.5	41.5	47.5	43.5	54.5	52.0	66.0	64.5	81.5	79.0
28	36.0	33.0	44.5	43.0	45.5	45.0	59.5	52.5	68.0	65.0	80.5	77.0
29	36.0	34.0	44.0	42.0	45.0	44.0	60.5	55.0	69.5	64.0	81.5	77.0
30	39.0	35.5	-	-	46.0	44.0	60.0	56.0	68.5	64.5	81.5	77.5
31	38.0	35.5	-	-	46.0	44.0	-	-	71.0	65.0	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1956

Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	81.5	78.0	78.0	76.0	84.0	79.0	68.0	65.0	64.5	62.0	48.0	45.0
2	82.5	78.5	78.5	77.0	84.5	79.0	69.0	66.0	66.5	63.0	47.0	45.5
3	84.0	79.5	78.5	76.0	80.0	78.0	70.0	66.5	64.0	63.0	48.0	45.0
4	85.0	79.5	77.0	75.5	82.0	78.0	70.0	67.5	63.0	62.5	49.0	46.0
5	83.0	79.0	77.0	74.5	82.0	79.0	68.5	67.5	63.0	61.5	49.0	46.5
6	80.0	77.5	77.5	74.5	82.0	79.0	67.5	67.0	63.0	60.5	49.0	47.0
7	80.0	76.5	77.0	75.0	79.5	78.0	67.0	66.0	62.5	61.0	50.0	48.0
8	81.0	77.5	78.5	74.5	78.0	76.5	68.5	65.0	62.0	60.0	50.0	48.5
9	79.0	77.0	79.0	75.0	77.0	74.0	68.0	65.5	61.5	57.0	51.5	49.0
10	78.5	75.0	79.0	76.0	76.0	73.0	66.0	64.5	59.0	56.0	49.0	47.5
11	80.0	75.0	80.0	77.0	75.0	73.0	65.0	63.5	58.0	55.0	48.5	47.0
12	80.0	75.0	80.0	77.0	75.5	72.0	65.0	63.0	59.0	54.5	49.5	48.0
13	78.5	76.0	82.0	78.0	75.5	73.0	64.5	63.0	58.0	55.0	51.0	48.5
14	78.5	76.5	80.0	77.0	75.5	73.0	65.5	63.0	57.0	54.0	50.0	49.0
15	80.0	76.5	81.0	77.5	78.0	73.5	66.0	63.0	57.5	54.0	49.5	49.0
16	79.5	77.0	83.0	79.0	77.0	74.0	64.5	63.5	59.0	55.5	50.0	49.0
17	78.0	77.0	82.0	79.5	78.0	74.0	64.0	63.5	57.0	55.0	50.0	49.0
18	80.0	76.0	83.0	79.0	75.5	73.0	65.0	63.5	56.0	54.0	50.0	49.0
19	79.5	76.0	81.5	78.5	75.0	72.0	64.5	63.0	55.0	52.5	49.5	47.5
20	78.0	77.0	81.0	78.0	73.5	71.0	63.5	62.0	55.5	52.0	49.5	48.0
21	79.5	76.5	79.0	77.0	72.5	69.5	63.5	62.5	56.5	53.5	51.5	49.0
22	80.0	76.5	77.0	76.0	72.5	68.5	64.0	63.0	56.0	51.0	50.5	49.5
23	80.5	77.0	78.5	75.0	74.0	69.5	65.5	63.5	53.0	49.0	50.5	49.5
24	81.0	77.5	77.0	74.0	72.0	70.5	64.5	63.5	51.0	48.0	51.5	49.5
25	79.5	76.5	78.0	75.0	70.5	69.0	64.0	62.0	51.0	47.0	50.5	48.5
26	82.0	77.0	77.5	75.0	69.0	65.0	62.0	61.0	50.0	48.0	49.5	48.0
27	81.0	78.0	79.0	75.5	65.5	63.0	62.0	61.5	50.0	48.0	48.5	47.0
28	82.0	77.0	79.5	76.0	66.0	64.0	62.0	61.0	49.0	47.0	49.0	46.5
29	79.0	76.5	80.0	77.0	65.0	64.5	61.5	60.5	48.5	45.5	48.0	47.0
30	78.5	77.0	81.0	77.5	66.0	63.5	62.0	61.0	48.0	47.0	47.5	44.5
31	78.5	76.0	83.0	78.5	-	-	64.0	62.0	-	-	47.0	42.0

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1957

Date	Jan.		Feb.		Mar.		April		May		June	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	46.0	44.0	41.0	40.0	43.5	43.0	53.0	48.5	69.0	64.5	73.0	69.0
2	44.0	42.0	42.0	40.0	44.5	42.5	52.0	49.0	68.0	65.5	75.5	70.0
3	43.0	40.0	40.5	40.0	45.5	42.5	54.5	50.0	65.5	63.5	74.5	71.5
4	42.0	39.0	44.0	40.0	44.5	43.0	52.5	51.0	63.5	61.0	73.5	72.0
5	41.5	41.0	42.5	41.0	44.5	42.5	55.0	51.0	63.0	60.5	74.5	72.0
6	41.0	40.0	41.5	41.0	43.5	43.0	54.0	51.0	64.0	60.5	73.5	72.0
7	41.0	40.0	41.5	41.0	45.0	43.0	54.0	50.0	65.5	60.5	75.5	72.0
8	41.0	40.0	42.0	41.0	45.0	43.5	55.0	51.5	67.0	62.5	74.5	71.0
9	41.0	39.5	43.0	41.5	44.0	42.5	54.0	50.5	67.0	62.5	71.0	68.0
10	42.5	40.5	45.0	41.0	44.0	42.5	54.0	50.5	69.0	64.0	72.5	67.5
11	41.5	40.0	43.5	42.5	46.0	42.0	56.5	51.5	66.5	64.5	76.0	69.5
12	41.5	39.0	43.0	41.5	47.0	43.5	59.5	53.0	70.0	64.5	75.0	71.5
13	42.0	40.0	43.0	40.5	48.5	45.0	54.0	52.5	71.5	65.0	79.0	72.5
14	41.0	39.0	42.5	41.0	51.0	45.5	55.0	50.5	74.0	66.5	79.0	74.0
15	40.0	38.5	41.5	40.5	50.0	47.0	56.0	52.0	72.5	67.5	82.0	74.0
16	39.0	37.5	42.0	40.0	52.5	46.5	56.5	50.5	71.0	67.5	84.0	76.0
17	38.0	36.5	41.0	40.0	53.0	47.5	58.0	52.5	71.5	67.5	84.0	78.5
18	37.5	34.5	44.0	40.0	52.5	48.0	58.0	54.0	72.5	68.0	84.5	77.5
19	38.0	34.0	43.0	41.0	51.5	48.5	60.0	54.5	71.5	69.0	82.5	74.0
20	37.5	34.0	41.0	40.0	49.0	48.0	62.0	57.0	71.0	68.0	79.5	73.0
21	38.5	36.0	42.0	40.0	49.5	47.0	64.0	56.5	70.0	66.0	81.5	77.5
22	42.5	36.5	43.0	40.0	48.5	48.0	64.0	57.0	68.5	65.5	84.0	78.0
23	42.0	37.5	44.0	40.0	50.5	48.0	64.0	58.5	72.0	68.0	82.0	78.0
24	39.0	37.5	44.5	41.0	52.0	47.0	65.0	58.0	75.5	69.0	81.0	78.0
25	38.5	38.0	45.0	42.0	51.5	48.0	66.5	59.5	75.5	70.5	81.5	77.5
26	40.0	38.0	47.0	43.0	51.0	48.0	69.5	61.5	76.0	71.0	81.0	77.5
27	39.5	38.0	46.0	43.0	50.0	48.0	69.0	63.0	72.0	68.0	82.5	78.0
28	39.5	38.5	45.0	43.5	50.5	48.5	69.0	63.0	72.0	69.0	83.0	78.5
29	44.0	39.0	-	-	51.5	48.5	70.0	63.5	74.0	69.0	79.0	76.5
30	41.0	40.0	-	-	51.0	47.5	71.0	65.0	71.0	68.5	79.0	76.0
31	40.5	39.5	-	-	52.0	48.5	-	-	72.0	68.5	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1957

Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	79.0	76.5	83.5	79.5	78.0	75.5	69.0	67.5	56.5	55.0	51.0	47.5
2	79.0	76.0	83.5	80.0	79.5	76.5	69.0	67.0	56.0	55.5	51.0	47.0
3	80.5	75.5	84.0	80.5	80.0	77.0	68.0	66.5	57.0	55.0	49.5	47.0
4	80.0	76.5	83.5	80.5	80.0	77.0	67.0	65.0	59.0	55.5	49.5	48.0
5	80.0	77.5	82.0	80.0	78.5	76.0	66.0	64.0	57.5	56.5	48.0	45.5
6	81.0	77.0	81.0	79.0	77.5	75.0	64.5	62.0	56.5	54.5	46.5	44.0
7	81.0	77.5	80.5	78.0	79.0	75.5	66.0	62.0	56.5	54.0	49.0	45.5
8	82.5	78.0	82.0	-	77.0	76.0	65.0	63.0	58.0	53.5	48.0	47.0
9	81.0	78.5	82.0	77.5	77.0	75.5	65.5	62.5	56.0	54.0	48.0	47.0
10	80.0	78.0	80.0	79.0	79.0	76.0	66.0	64.0	54.5	52.0	47.0	45.5
11	80.5	77.0	82.0	78.0	80.5	76.0	65.0	63.5	53.5	50.5	46.0	43.5
12	81.0	77.0	82.5	78.5	81.0	77.0	64.0	61.5	53.0	50.0	44.0	39.0
13	82.0	77.5	80.5	78.5	80.5	77.5	63.5	61.0	53.5	51.0	41.5	38.5
14	82.5	78.5	80.5	77.0	80.0	77.5	64.0	61.0	54.5	51.5	42.0	38.0
15	81.5	79.0	79.0	77.5	81.0	77.5	64.0	61.5	55.0	52.5	42.0	40.0
16	82.0	78.5	82.0	78.0	81.0	78.0	63.5	61.5	54.5	53.0	43.0	40.0
17	82.0	79.0	79.5	77.5	79.5	77.5	63.0	61.5	56.5	53.5	43.0	41.0
18	81.0	77.5	78.5	75.5	78.0	76.0	63.5	62.5	55.5	54.0	43.5	41.0
19	81.0	77.0	76.0	71.0	77.0	75.5	63.5	61.0	58.5	54.5	44.5	41.5
20	82.0	78.0	75.0	70.5	78.5	75.5	62.5	59.5	55.5	54.0	47.5	42.5
21	83.0	79.0	76.5	73.0	78.5	76.0	62.5	59.5	55.0	53.0	45.5	43.0
22	82.0	79.0	77.0	74.0	79.5	76.5	63.0	59.0	54.0	52.5	46.0	43.0
23	83.0	78.0	75.5	74.0	78.0	76.0	64.0	60.0	53.5	52.5	45.5	43.0
24	79.0	78.0	74.5	73.0	77.0	75.0	62.0	61.0	53.0	51.5	46.0	44.0
25	80.5	77.5	76.0	73.0	76.5	73.0	61.5	60.0	52.5	51.0	45.0	43.5
26	80.0	77.5	76.5	72.0	76.0	73.0	60.0	58.0	52.0	50.0	46.0	44.0
27	81.0	77.0	76.5	73.5	74.5	70.5	59.0	56.5	51.0	49.0	45.5	43.5
28	81.0	77.5	77.5	74.0	72.5	69.0	57.5	54.5	52.0	50.0	45.0	43.0
29	82.0	77.5	78.0	74.0	70.0	66.5	57.0	54.0	53.5	52.0	45.5	44.0
30	82.0	78.5	78.0	74.0	69.5	67.0	56.0	53.5	53.5	51.0	45.0	43.0
31	83.0	79.0	78.5	75.5	-	-	56.5	55.0	-	-	45.0	42.5

LIBRARY
of the
INSTITUTE

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1958

Date	Jan.		Feb.		Mar.		April		May		June	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	45.0	43.0	40.0	38.5	39.5	36.0	46.0	44.0	60.0	58.5	73.5	67.5
2	44.0	41.0	38.5	37.5	43.0	38.0	46.5	43.5	61.5	59.0	72.0	68.5
3	43.5	41.0	38.5	36.5	43.0	39.0	50.0	44.5	62.0	60.0	69.5	67.5
4	42.5	40.0	38.0	35.0	41.0	38.0	50.5	45.5	66.5	61.0	70.5	66.0
5	41.5	38.5	37.5	35.5	42.0	39.0	49.5	46.0	63.0	60.0	72.0	66.5
6	40.0	37.5	39.0	36.5	41.0	39.5	50.0	46.0	61.0	59.5	71.5	68.0
7	39.0	38.0	39.0	37.0	42.5	39.5	49.0	46.5	60.0	59.0	73.5	68.0
8	38.0	46.0	37.5	36.0	43.0	40.0	51.0	46.0	61.0	59.0	72.0	67.5
9	37.5	36.0	37.0	34.0	43.0	40.5	53.0	47.5	62.0	60.0	72.0	68.5
10	36.5	34.0	36.5	34.0	41.5	40.0	50.0	48.5	62.5	61.0	74.0	69.0
11	37.0	36.0	36.5	34.0	44.0	40.0	48.5	48.0	65.0	60.5	76.5	67.5
12	37.5	35.0	36.5	34.5	44.0	41.0	49.0	48.0	68.5	63.0	77.5	71.0
13	36.5	35.0	36.0	34.5	42.5	41.0	51.0	47.5	66.0	63.0	78.0	72.5
14	38.0	36.0	36.5	33.5	41.5	40.5	54.0	48.5	66.5	62.5	76.0	71.0
15	37.5	37.0	35.0	33.5	42.0	40.0	56.0	49.0	67.0	64.0	75.5	74.0
16	37.5	37.0	35.0	33.0	41.0	40.0	54.5	52.0	68.5	65.0	74.0	71.5
17	38.0	36.5	34.0	31.5	42.5	40.0	55.0	51.0	70.0	65.0	74.0	71.0
18	37.5	36.0	33.0	30.5	42.0	40.5	58.0	52.0	69.5	65.0	75.5	71.5
19	37.0	35.0	32.5	30.0	41.0	40.5	60.0	52.5	70.0	66.0	76.0	71.5
20	36.5	34.5	32.0	30.0	40.5	40.0	60.0	55.0	67.5	64.5	73.0	72.0
21	37.5	35.0	34.0	30.0	40.5	39.5	62.0	55.0	70.5	66.0	72.5	71.0
22	38.5	37.0	33.0	31.0	41.0	39.0	61.0	56.5	70.0	66.0	72.0	70.5
23	38.5	36.0	36.0	31.5	43.0	39.5	57.5	54.5	68.5	66.5	71.0	69.0
24	38.0	37.0	37.0	32.5	43.0	41.0	61.0	55.0	69.0	67.0	73.5	69.0
25	38.0	37.5	38.5	34.0	44.0	42.0	62.0	56.5	70.0	65.0	75.5	71.0
26	39.0	37.0	39.0	35.5	43.0	42.0	63.0	58.5	69.0	65.5	76.5	72.5
27	39.5	37.5	39.0	36.0	43.0	42.5	60.5	58.0	70.0	65.5	74.5	72.0
28	39.0	38.0	38.5	34.5	46.5	42.5	59.5	58.0	70.5	66.0	75.5	71.5
29	39.5	37.5	-	-	46.5	43.5	62.5	57.5	70.0	67.0	77.0	72.5
30	40.0	37.0	-	-	48.0	44.0	62.0	57.5	72.0	67.5	77.0	72.5
31	40.0	38.5	-	-	47.0	44.0	-	-	73.0	67.5	-	-

Maximum and Minimum Water Temperatures Near Bottom at End of
Virginia Fisheries Laboratory Pier, Gloucester Point, Virginia
1958

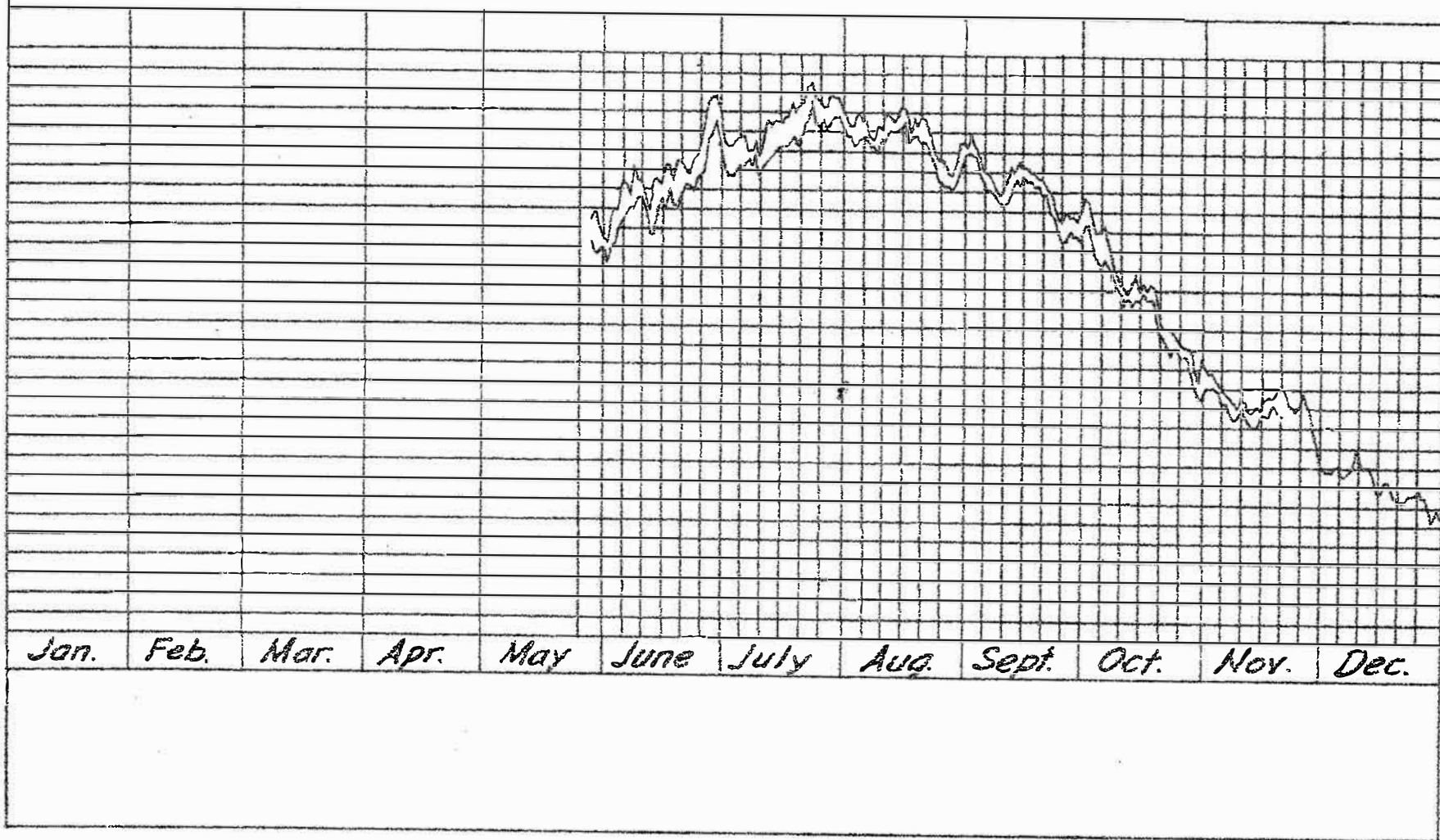
Date	July		Aug.		Sept.		Oct.		Nov.		Dec.	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
1	79.0	72.5	83.5	80.0	79.0	76.0	71.5	69.0	60.0	57.5	50.0	46.0
2	79.0	73.0	82.0	80.0	77.5	76.0	69.5	65.5	58.5	57.0	50.0	46.0
3	78.0	74.5	80.0	79.0	78.0	75.0	68.0	65.0	58.0	56.5	49.0	46.0
4	81.0	75.0	79.0	78.5	78.0	75.0	68.0	64.5	58.0	56.0	50.0	48.0
5	79.5	76.0	81.5	77.5	79.0	75.0	67.0	65.0	58.5	56.0	50.5	49.0
6	78.5	75.0	82.5	79.0	80.0	76.0	67.0	64.0	59.0	57.0	49.5	48.5
7	79.0	74.5	83.5	80.0	78.0	76.0	67.0	63.0	58.0	56.5	49.0	46.0
8	78.5	73.0	81.0	78.5	77.0	74.5	67.0	64.0	57.5	55.5	48.0	45.0
9	77.0	72.5	81.0	78.0	76.5	73.5	68.0	65.0	57.0	55.5	47.5	45.5
10	79.0	75.5	83.5	79.5	76.5	73.0	69.0	65.5	57.0	55.0	46.5	44.5
11	79.0	76.0	83.5	80.0	75.0	73.0	67.5	65.0	56.0	53.5	45.0	41.0
12	79.0	75.0	85.0	81.5	74.5	71.5	66.5	63.5	57.0	53.5	43.0	39.5
13	81.0	75.0	83.0	80.0	75.0	71.0	66.5	62.0	56.5	54.0	43.0	40.0
14	80.0	77.0	80.5	78.0	74.5	70.5	65.0	63.0	57.0	55.0	41.5	39.5
15	81.5	76.5	82.5	78.0	75.0	71.0	66.5	63.0	57.5	56.0	41.0	38.5
16	80.0	76.0	80.0	77.5	75.5	72.5	67.0	64.0	58.0	56.0	40.0	37.0
17	80.0	77.0	79.0	77.5	77.0	73.5	66.5	64.0	59.0	57.0	39.0	36.5
18	81.0	77.0	81.0	77.0	75.0	74.0	65.5	64.5	59.5	57.0	39.0	38.0
19	79.5	77.0	79.5	77.5	74.5	73.0	65.0	62.0	60.0	58.0	39.0	37.5
20	78.0	76.5	80.0	77.0	74.0	72.5	63.5	62.0	59.0	57.5	40.0	38.5
21	78.5	76.0	81.5	77.5	73.0	71.5	62.5	60.0	58.5	56.5	39.0	37.5
22	80.0	77.0	81.0	78.5	74.5	72.0	62.0	60.0	58.0	55.5	39.0	37.0
23	80.0	77.5	81.0	78.5	75.0	72.5	63.0	61.5	57.0	55.0	40.0	39.0
24	80.0	77.5	82.0	79.0	75.0	73.0	65.0	62.0	58.0	56.0	40.0	39.0
25	79.5	77.0	80.0	78.5	76.5	72.5	63.0	62.0	57.0	56.0	40.0	38.0
26	81.5	77.0	78.5	76.0	78.0	73.5	62.0	61.5	56.5	55.0	39.0	37.0
27	82.0	79.0	77.5	75.5	76.5	74.0	62.5	60.5	55.5	54.0	38.5	36.5
28	84.0	79.5	76.0	74.5	73.5	71.5	61.0	59.0	55.0	52.0	40.0	38.0
29	84.0	79.5	77.0	74.0	73.5	70.0	61.0	59.0	55.0	52.0	42.5	40.0
30	86.5	81.0	79.0	75.0	72.5	70.0	60.5	58.0	53.0	49.5	41.0	-
31	85.0	82.0	79.0	76.0	-	-	60.0	58.0	-	-	41.0	40.0

Maximum - minimum water temperatures
Gloucester Point, Virginia 1952

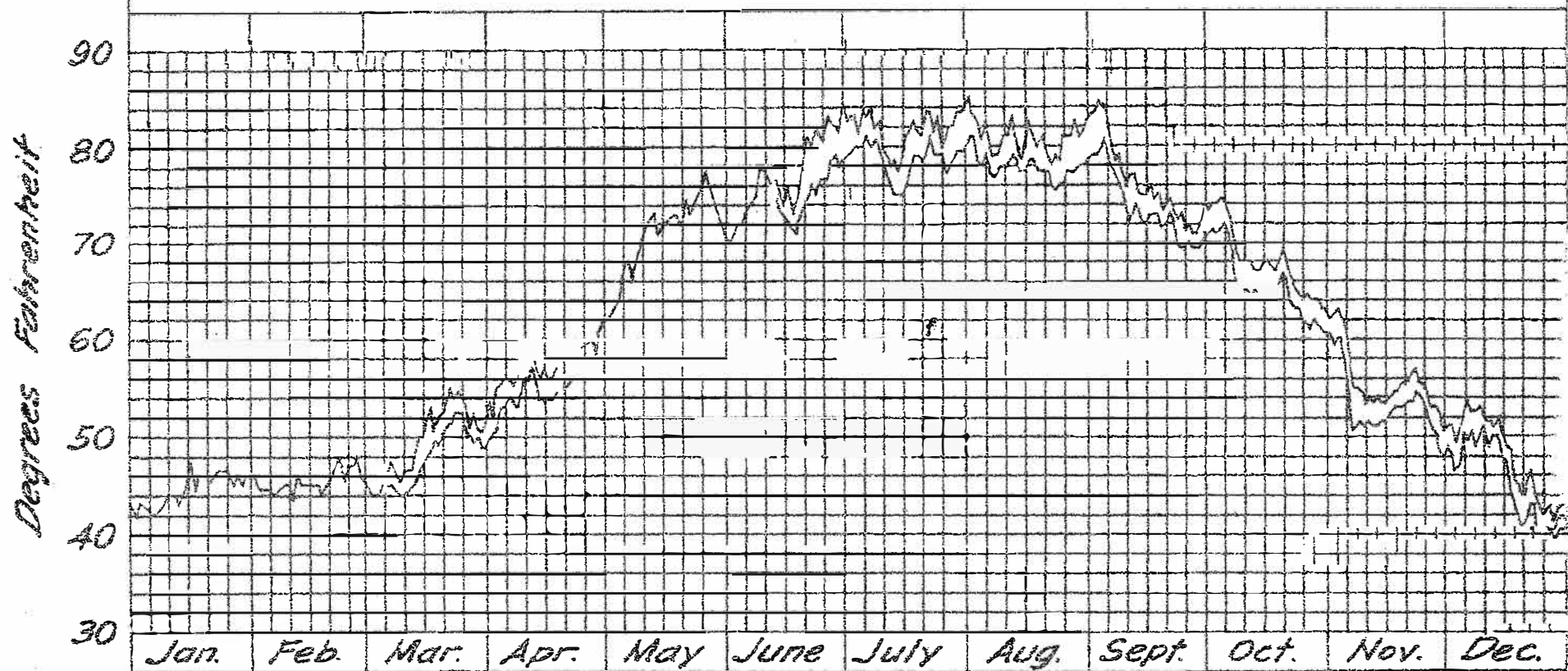
Degrees Fahrenheit

90
80
70
60
50
40
30

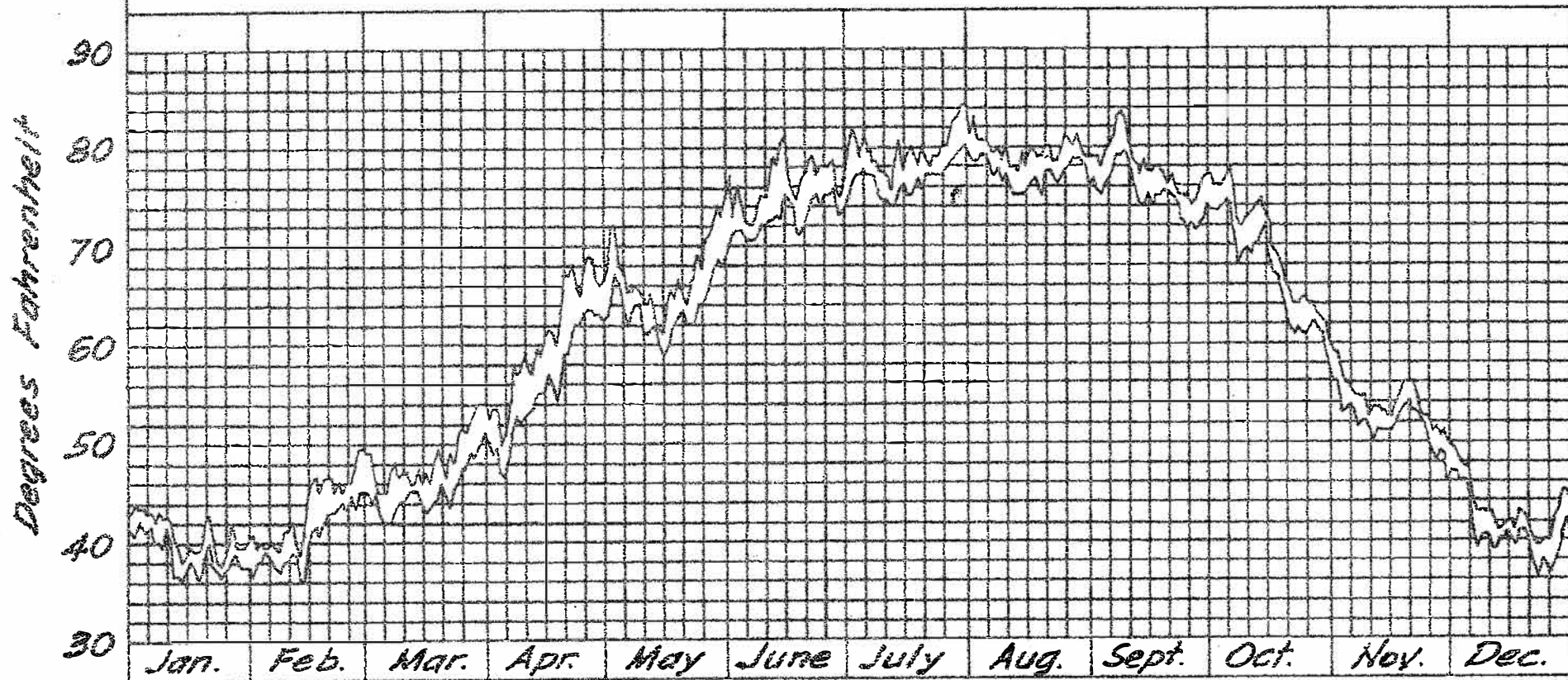
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.



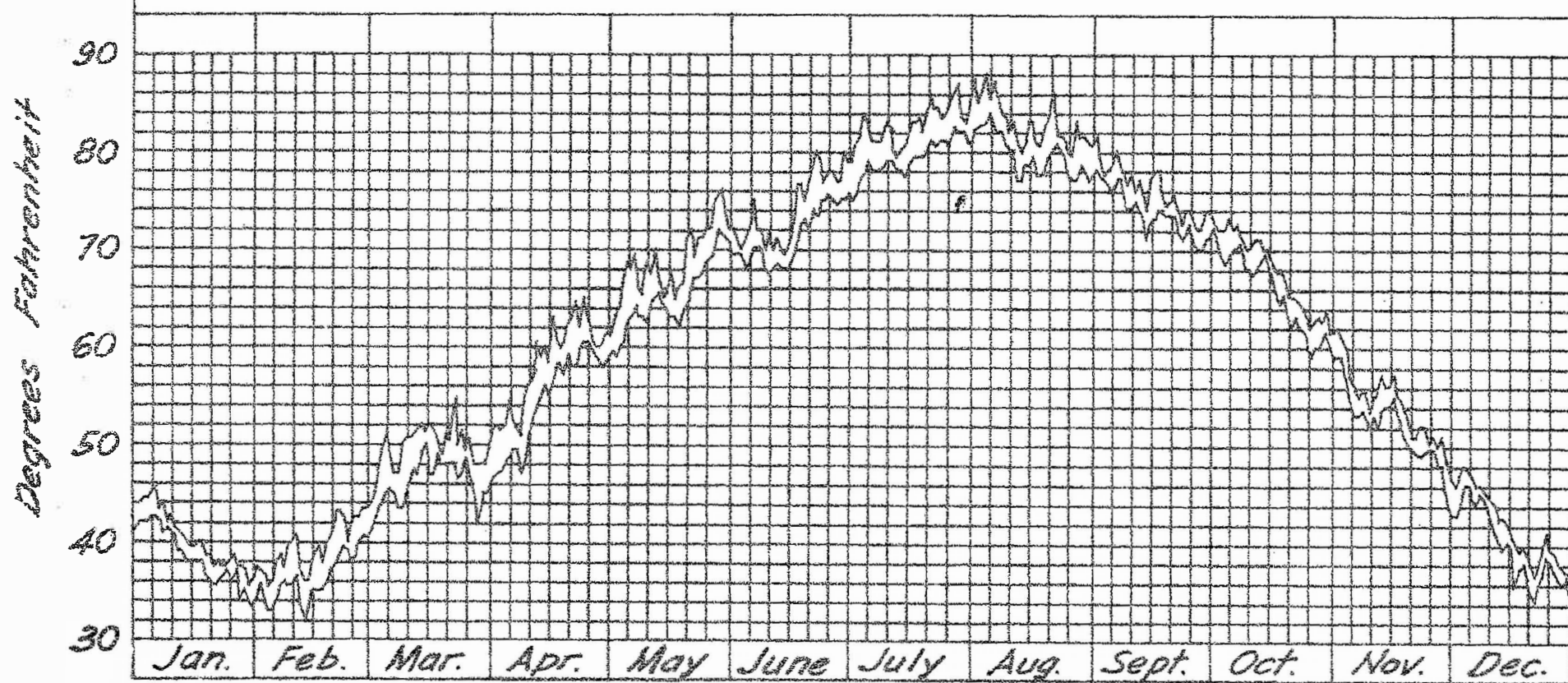
*Maximum - minimum water temperatures
Gloucester Point, Virginia 1953*



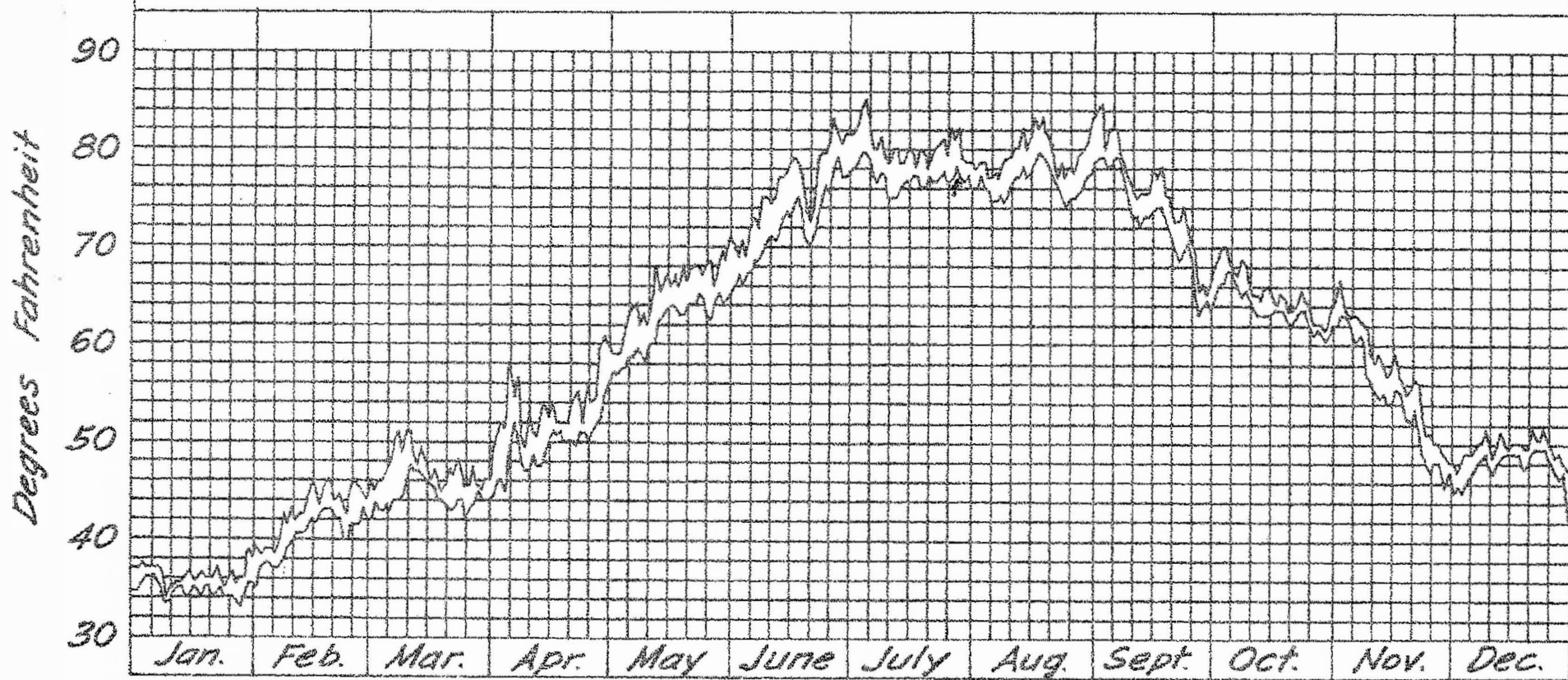
*Maximum - minimum water temperatures
Gloucester Point, Virginia 1954*



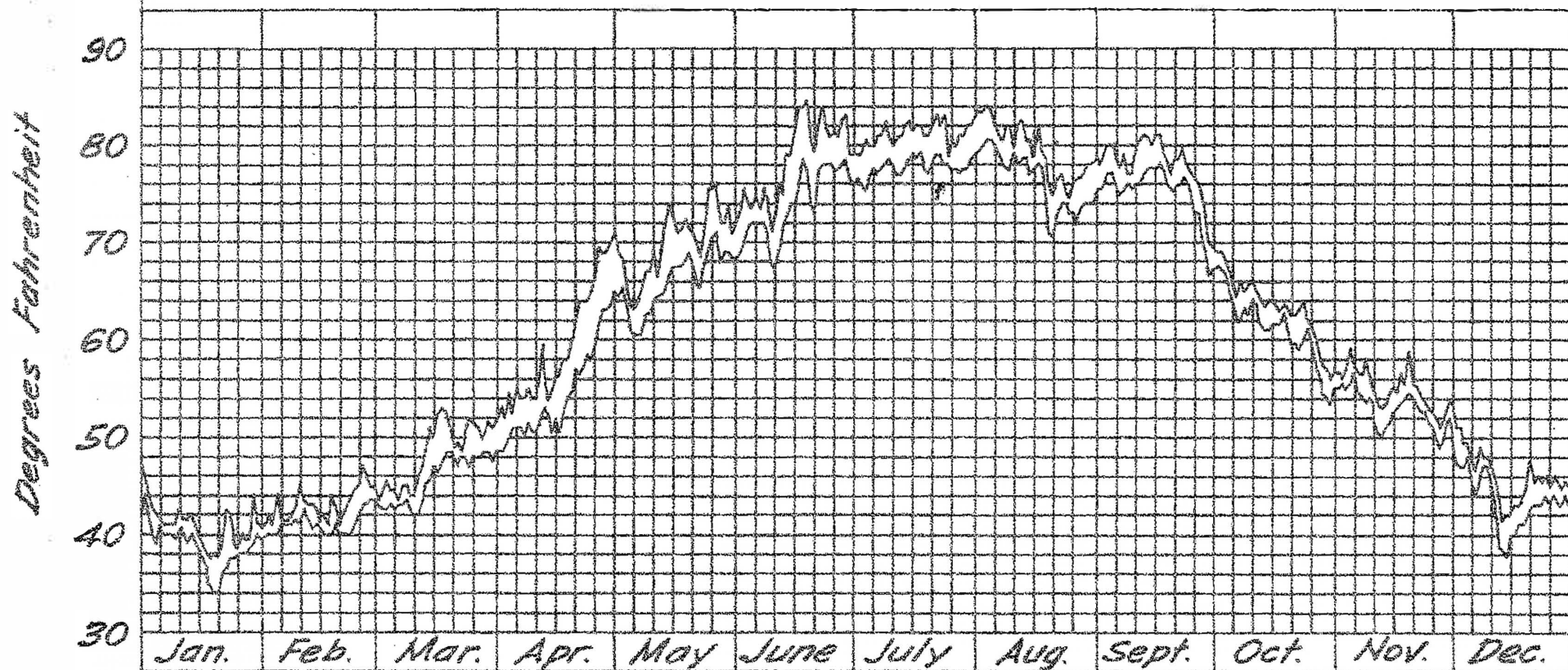
Maximum - minimum water temperatures
Gloucester Point, Virginia 1955



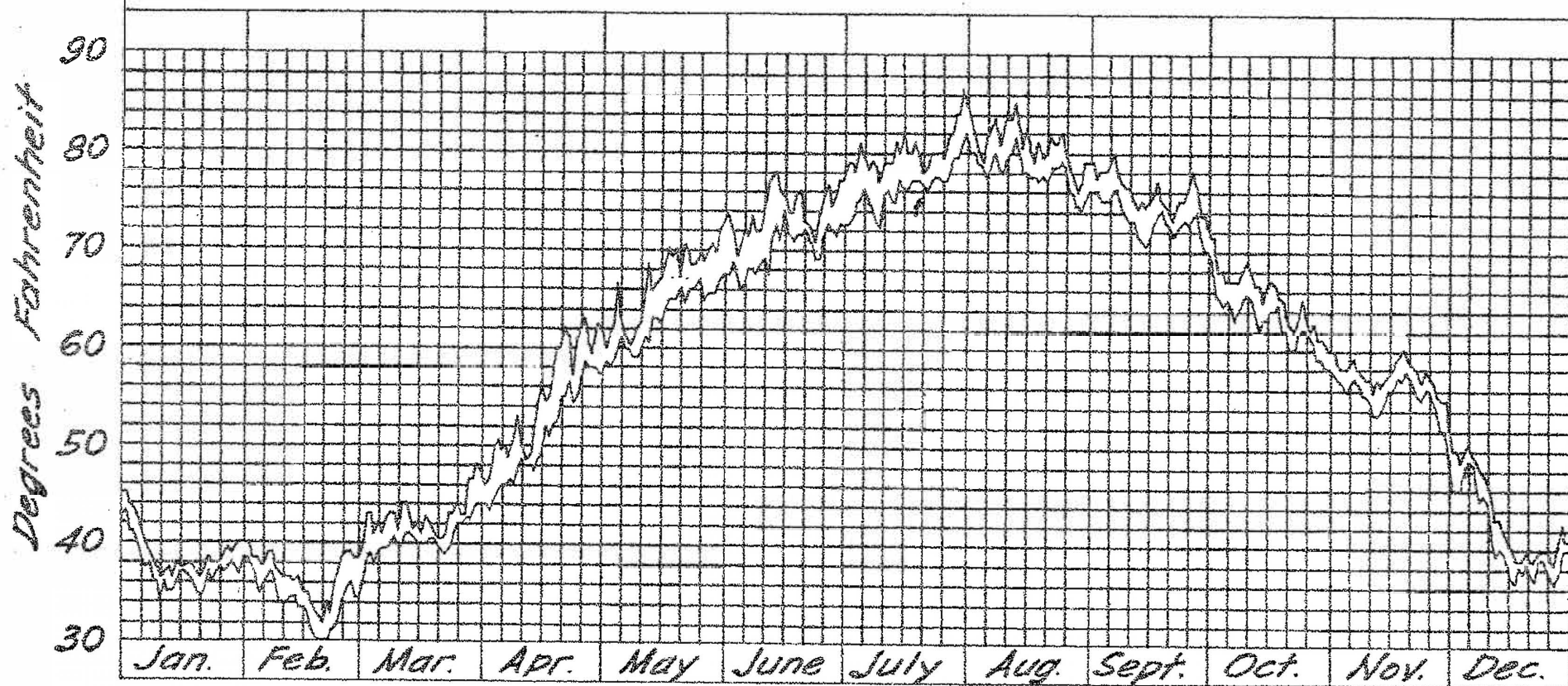
*Maximum - minimum water temperatures
Gloucester Point, Virginia 1956*



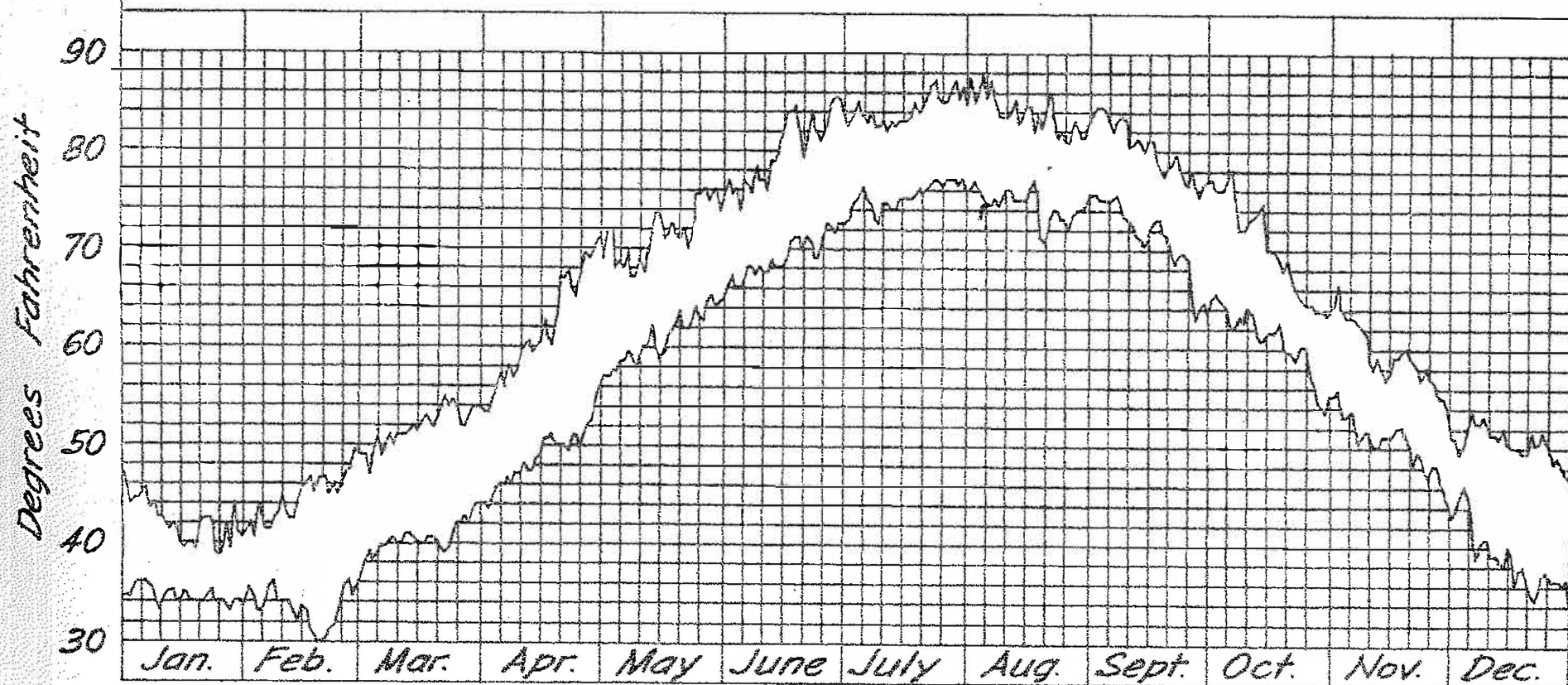
*Maximum - minimum water temperatures
Gloucester Point, Virginia 1957*



Maximum - minimum water temperatures
Gloucester Point, Virginia 1958



Maximum - minimum water temperatures
Gloucester Point, Virginia 1952 - 1958 inclusive



Maximum and Minimum Water Temperatures--York River, Virginia--VFL--Special Scientific Report No. 16
Addendum No. 1 (1959)

Date	Jan.		Feb.		Mar.		Apr.		May		Jun.		Jul.		Aug.		Sep.		Oct.		Nov.		Dec.	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	42.0	39.5	40.5	38.5	43.5	42.5	53.5	49.5	65.5	61.0	75.0	73.5	86.5	82.5	84.0	83.0	85.0	81.5	77.5	76.0	64.0	62.5	48.0	44.5
2	42.0	40.5	39.5	38.0	42.5	42.0	54.0	49.5	65.0	62.5	75.5	73.0	84.0	82.0	83.0	81.5	84.0	82.0	76.5	75.5	62.5	61.5	48.0	45.5
3	43.5	40.5	38.0	36.5	44.5	41.5	55.0	49.5	69.0	63.0	76.0	72.5	82.0	80.0	84.0	80.0	84.5	82.0	75.0	74.0	61.5	58.5	47.5	46.5
4	42.5	41.5	39.5	39.0	45.5	42.5	52.0	50.0	68.0	63.5	77.0	73.0	83.0	79.0	80.5	78.5	83.0	82.0	78.0	74.0	61.0	58.5	47.5	45.5
5	39.5	38.5	41.5	38.5	46.5	43.0	56.5	50.0	69.0	64.0	78.5	73.5	82.5	78.5	80.0	78.0	82.5	81.0	78.5	74.5	63.0	59.5	47.0	46.0
6	36.5	34.5	40.0	38.5	49.0	45.0	57.0	52.5	71.5	64.5	78.0	74.0	82.5	78.5	79.5	77.5	82.0	80.5	78.5	75.0	63.5	61.5	47.0	46.5
7	37.0	34.5	42.0	38.0	46.0	44.0	58.5	52.0	70.0	65.5	78.5	74.0	83.0	79.5	78.5	77.5	83.0	80.0	77.5	75.5	61.0	59.0	46.0	45.0
8	37.0	35.5	42.0	38.5	48.0	44.5	60.0	54.0	67.5	64.5	80.0	73.0	83.5	78.0	80.0	77.5	83.0	80.0	77.5	76.0	59.0	57.5	46.5	43.5
9	36.0	35.0	40.5	39.5	47.5	44.5	62.5	56.0	69.0	65.5	81.0	75.5	82.5	78.5	79.5	78.0	83.5	80.0	78.0	76.0	58.5	57.0	47.0	44.0
10	35.5	35.0	43.0	39.5	46.5	45.5	62.5	57.0	70.0	65.0	83.0	77.0	80.0	78.5	80.5	77.5	83.5	81.0	77.0	76.5	58.0	56.0	46.0	44.0
11	35.0	34.0	42.5	40.5	47.5	45.5	60.0	58.5	69.5	66.5	83.5	78.5	80.0	77.5	81.0	78.5	82.5	81.0	78.0	76.5	58.0	55.0	46.5	43.5
12	35.5	34.0	44.0	41.0	47.5	45.0	58.5	55.5	69.5	67.0	83.5	79.0	79.5	77.5	82.0	79.0	80.5	78.5	76.5	75.5	57.5	56.0	47.5	45.0
13	36.0	34.0	43.5	41.5	46.0	44.0	57.0	54.5	69.5	65.0	81.5	76.5	79.5	78.5	83.5	79.5	80.5	77.5	75.5	73.5	57.0	56.0	47.0	46.0
14	36.5	35.0	45.0	42.0	48.5	43.5	55.0	53.5	67.5	65.0	76.0	72.5	79.5	78.5	84.0	80.0	79.5	77.5	74.5	72.5	58.0	56.5	46.5	44.5
15	39.5	35.0	45.0	41.5	48.0	46.0	55.0	53.5	67.5	65.0	74.5	71.5	79.5	77.5	85.5	80.5	79.5	76.5	73.5	70.5	57.0	55.5	46.5	44.0
16	39.0	36.5	46.0	43.0	48.5	45.5	60.0	52.5	66.5	64.0	76.0	72.0	79.5	78.0	85.5	81.5	78.5	77.5	72.0	67.5	56.0	55.0	46.5	44.0
17	36.0	34.0	45.5	42.5	50.5	46.5	62.5	65.0	68.5	64.5	73.5	71.0	81.0	78.0	84.5	80.5	78.5	77.5	72.0	67.5	56.0	55.0	46.0	45.0
18	36.0	34.0	45.0	42.5	47.5	45.5	62.0	56.5	65.5	64.5	73.5	70.5	81.5	78.5	83.5	80.0	76.5	74.0	70.0	68.5	55.0	50.0	46.0	45.5
19	35.0	32.0	42.5	41.0	49.0	44.5	61.5	56.5	70.0	65.5	74.5	70.0	83.0	79.0	85.5	81.5	75.0	72.5	68.5	66.5	53.0	50.0	45.5	44.5
20	39.0	35.0	42.0	40.0	51.5	46.0	63.0	58.5	73.0	67.5	76.0	71.0	84.0	79.0	86.0	82.5	76.0	72.5	68.0	65.0	52.0	50.0	45.0	43.5
21	43.5	37.0	42.5	38.5	52.0	48.0	61.0	59.0	73.5	68.5	76.5	73.0	80.5	79.0	86.0	82.0	75.5	73.0	67.5	65.0	51.5	49.5	44.0	42.5
22	44.0	37.0	44.0	39.0	48.5	46.5	60.0	58.5	73.0	69.0	78.0	73.5	82.5	78.5	85.0	82.0	75.5	73.0	66.5	64.0	52.4	50.5	44.0	42.5
23	39.0	37.0	44.5	40.5	51.0	46.5	58.5	57.0	75.0	70.0	78.5	75.0	83.5	80.0	86.0	83.0	77.0	73.5	68.0	65.5	52.5	50.5	42.5	41.5
24	40.0	37.0	44.0	41.5	54.5	46.5	61.5	55.0	72.5	70.5	79.0	75.5	83.5	80.0	84.5	82.0	77.0	74.0	67.5	66.5	53.0	51.5	41.5	40.5
25	41.0	37.5	44.0	40.5	56.0	48.5	63.5	56.5	75.0	69.0	81.0	76.0	83.5	80.5	86.0	83.0	78.0	74.5	66.0	65.5	53.0	51.5	41.5	40.0
26	39.0	38.0	44.0	41.5	53.5	50.0	63.0	58.5	76.5	69.0	81.0	76.5	85.0	81.5	87.0	83.5	78.5	75.5	66.0	63.5	51.5	49.0	42.0	40.5
27	39.0	38.0	43.5	42.5	52.5	49.5	62.5	60.0	75.0	70.5	82.0	77.5	84.5	81.0	86.0	83.5	79.0	76.5	65.0	63.0	54.0	49.0	43.5	41.5
28	39.0	38.0	45.0	42.5	50.5	48.5	61.0	59.5	76.0	72.0	83.5	78.5	86.0	81.0	87.0	83.0	77.5	76.0	65.0	61.5	53.5	51.0	45.5	42.5
29	40.0	38.0	-	-	51.5	48.0	64.0	59.5	76.5	72.0	84.5	79.0	86.0	82.0	85.5	83.5	78.5	76.0	63.0	60.5	50.5	49.0	44.5	42.5
30	41.0	39.0	-	-	50.0	49.0	65.5	60.5	76.5	72.0	82.0	81.5	86.0	82.5	84.0	82.5	78.0	76.0	63.0	60.0	48.5	46.5	44.0	42.5
31	42.0	39.0	-	-	52.0	49.0	-	-	76.0	72.5	-	-	85.5	82.5	84.0	82.0	-	-	63.0	61.5	-	-	43.0	42.5

Maximum and Minimum Water Temperatures--York River, Virginia--VFL--Special Scientific Report No. 16
Addendum No. 2 (1960)

Date	Jan. max min	Feb. max min	Mar. max min	Apr. max min	May max min	Jun. max min	Jul. max min	Aug. max min	Sep. max min	Oct. max min	Nov. max min	Dec. max min
1	42.5 41.5	40.5 39.5	41.0 40.0	51.0 43.5	61.5 60.5	74.5 71.0	79.0 77.0	80.5 77.0	81.0 78.0	72.0 70.5	58.5 57.5	53.5 49.5
2	42.0 41.5	40.0 39.5	40.0 39.0	53.5 45.0	64.0 59.5	75.5 71.5	79.5 75.0	82.0 78.0	81.0 78.0	72.0 69.5	59.0 57.5	50.5 47.5
3	45.0 42.0	40.0 39.0	39.0 35.0	51.0 48.0	63.5 59.5	74.5 71.0	80.5 77.0	83.0 78.5	80.5 78.0	72.0 69.5	59.0 58.0	49.5 46.5
4	43.0 42.0	40.5 38.5	38.0 36.0	54.0 49.0	64.0 60.0	75.0 72.0	82.0 77.5	84.0 78.5	80.5 77.5	70.0 69.5	58.0 55.5	50.0 46.5
5	43.0 42.0	40.0 39.0	37.0 35.5	54.5 46.5	67.0 61.0	77.5 72.5	80.5 78.0	83.0 79.0	81.5 77.0	70.0 68.0	58.0 55.0	50.0 47.5
6	42.5 41.5	42.0 40.0	37.0 34.5	50.0 48.0	67.5 62.0	77.5 73.5	81.0 77.5	84.0 79.0	80.5 78.0	71.0 68.5	57.5 55.0	50.0 47.5
7	42.5 42.0	41.5 40.5	37.0 35.0	53.5 48.5	67.5 63.0	76.5 73.0	78.5 77.5	83.0 79.0	80.0 76.0	71.0 69.0	56.5 54.5	50.0 47.5
8	43.5 41.5	42.0 39.5	37.5 35.5	52.0 50.0	66.5 64.5	75.5 73.0	80.5 76.5	82.0 79.0	79.0 77.5	69.5 68.0	54.0 52.0	49.5 48.0
9	43.0 41.5	42.5 40.0	36.0 34.5	53.0 49.5	63.5 61.5	75.0 71.5	81.0 76.0	83.5 79.5	80.5 77.0	68.0 67.5	54.0 51.5	48.5 45.0
10	44.0 40.5	45.0 40.0	34.0 33.5	51.5 50.0	65.5 61.0	73.0 70.5	79.5 77.0	82.5 80.5	81.0 78.0	68.5 67.5	54.5 53.5	47.0 43.5
11	43.5 42.5	46.0 44.0	High-35.5	53.5 49.5	64.0 62.0	74.0 70.0	79.0 76.0	81.5 79.5	80.0 78.5	69.0 67.0	53.5 51.5	46.0 44.5
12	42.0 41.0	45.5 42.0	Low- 32.5	54.0 49.5	63.0 62.0	75.0 71.5	80.5 77.0	80.0 78.5	77.0 76.0	70.5 67.5	53.0 51.0	45.5 42.0
13	44.0 41.0	43.5 40.0		57.0 51.0	64.0 61.5	77.5 72.0	81.5 77.5	81.5 78.5	78.0 75.0	70.5 68.0	53.0 51.0	42.5 40.0
14	44.5 42.5	41.5 39.0	38.0 35.0	57.0 53.0	63.0 61.5	77.0 74.0	80.0 78.5	83.5 80.0	77.5 75.0	71.0 68.5	54.5 51.5	40.5 37.5
15	45.5 43.0	41.0 37.5	39.5 35.5	59.0 53.0	64.5 61.0	76.5 74.0	79.0 77.5	82.0 79.5	77.0 73.5	71.0 69.0	54.5 51.5	40.0 37.5
16	44.0 43.0	41.0 39.0	37.0 35.5	60.5 54.0	67.0 63.5	79.0 74.0	80.5 76.5	82.5 79.5	76.5 73.5	72.5 69.5	56.0 52.5	40.5 39.0
17	44.5 42.5	42.0 38.5	39.0 36.0	61.0 55.0	69.0 64.5	79.0 75.5	80.5 77.5	80.5 79.5	74.5 72.5	70.0 69.0	56.5 54.5	40.5 38.5
18	42.5 42.0	41.5 39.5	37.0 36.5	57.0 54.0	67.5 65.5	78.0 74.5	80.5 77.5	79.0 77.5	77.0 73.5	70.5 68.5	55.5 54.0	40.0 38.5
19	43.5 42.0	40.5 38.5	39.5 36.5	60.5 55.0	70.0 66.0	78.5 75.0	81.0 78.0	80.0 77.0	78.0 75.0	70.0 68.0	54.5 54.0	40.0 38.0
20	42.5 41.5	40.5 38.0	39.0 38.0	60.0 55.5	71.0 66.5	78.0 75.5	82.5 78.0	80.0 77.0	78.0 75.5	69.0 67.5	54.5 52.5	39.5 38.0
21	41.5 39.5	40.5 38.0	39.5 38.0	61.0 56.0	73.0 67.0	78.0 75.5	81.5 78.5	81.0 77.5	76.5 75.0	68.5 64.5	54.5 52.5	40.0 38.5
22	40.5 39.0	39.5 39.0	39.5 38.0	62.5 56.0	73.0 69.0	78.0 75.0	82.0 77.5	79.5 77.5	75.5 74.0	66.5 63.0	54.5 52.5	39.0 37.5
23	39.5 39.0	40.5 38.0	40.0 37.0	63.0 57.0	70.5 69.0	78.0 76.0	82.5 78.0	80.0 77.5	75.5 72.5	65.0 62.5	54.0 53.5	38.0 35.5
24	39.0 37.5	41.5 38.0	40.5 37.5	64.5 57.0	71.0 68.0	79.5 75.5	83.0 79.5	78.5 77.5	75.0 72.5	64.5 61.0	54.0 52.5	36.5 35.5
25	39.0 37.0	40.0 39.0	39.5 36.0	62.5 58.5	73.5 69.0	77.5 75.5	83.0 80.0	77.5 75.5	73.5 72.0	62.5 59.5	53.5 52.0	37.5 35.5
26	40.5 37.0	40.5 39.5	38.5 37.0	66.5 58.0	74.5 70.5	77.0 75.5	81.5 79.0	76.0 75.0	73.0 71.5	61.5 59.5	54.0 52.0	38.5 36.0
27	41.5 38.0	41.0 38.5	44.0 38.0	66.0 61.0	72.0 70.5	80.5 74.5	81.0 78.5	78.0 75.0	72.0 70.5	61.5 60.0	54.0 52.5	38.5 36.5
28	40.5 39.0	41.0 38.5	45.5 40.0	63.0 61.0	71.5 69.0	81.0 76.0	82.0 78.5	80.5 76.0	72.5 70.5	60.5 60.0	55.0 53.0	37.5 36.5
29	41.0 39.5	42.0 40.0	47.0 41.5	65.5 60.5	74.5 69.5	79.5 77.0	80.0 76.0	81.5 77.0	71.5 71.5	59.0 58.5	56.0 53.5	37.5 36.5
30	40.5 39.5		48.5 43.5	64.0 60.5	76.0 70.5	79.5 77.0	78.0 76.0	82.0 77.5	72.0 71.0	58.5 56.5	56.0 53.5	38.5 37.0
31	40.0 39.5		50.0 43.0		74.0 71.0		79.5 77.0	82.0 78.5		58.0 57.5		39.0 36.5

Maximum and Minimum Water Temperatures--York River, Virginia--VIMS--Special Scientific Report No. 16
Addendum No. 3 (1961)

Date	Jan. max min	Feb. max min	Mar. max min	Apr. max min	May max min	Jun. max min	Jul. max min	Aug. max min	Sep. max min	Oct. max min	Nov. max min	Dec. max min
1	39.5 37.5	36.5 33.0	45.5 43.0	50.5 49.5	58.0 55.0	69.5 64.0	79.5 72.0	83.0 81.0	82.0 80.0	74.5 71.0	64.5 61.5	48.5 47.0
2	39.5 37.5	34.0 32.5	46.5 43.0	51.0 47.5	58.5 55.5	70.5 66.0	79.5 74.5	84.0 80.0	84.5 80.0	73.0 72.0	63.5 62.0	49.0 47.0
3	38.5 38.0	32.5 31.0	47.5 43.0	51.0 47.5	59.5 56.5	71.5 67.0	77.0 75.0	83.0 81.0	84.5 80.5	73.0 71.5	65.0 62.5	49.5 47.5
4	39.0 37.0	33.0 31.5	49.5 43.5	49.5 48.5	61.0 56.5	71.5 67.0	78.5 73.5	82.0 80.5	84.5 80.5	71.5 68.5	66.5 63.0	49.0 47.0
5	39.0 37.0	33.5 32.0	51.0 44.0	50.0 47.5	63.0 57.0	73.0 68.0	78.5 74.5	81.0 79.0	86.0 80.5	70.0 67.5	66.5 63.0	50.5 48.5
6	39.0 36.5	34.5 32.5	51.0 44.5	51.5 48.5	59.5 58.0	72.5 70.0	75.0 74.0	82.0 78.5	86.0 82.5	71.5 66.5	66.0 63.0	49.5 48.5
7	39.0 37.0	34.0 32.5	53.5 44.5	51.5 49.0	62.0 58.0	76.5 70.0	76.5 74.5	83.0 80.0	86.0 82.5	72.5 68.0	64.0 63.0	48.5 47.5
8	39.0 37.5	34.0 33.0	51.0 46.0	51.0 48.5	65.0 60.0	75.5 70.5	80.0 74.5	82.0 80.0	84.0 82.0	71.5 68.5	63.0 61.0	48.5 46.5
9	37.5 36.5	34.5 33.0	48.0 45.0	51.0 49.5	67.0 61.0	76.5 71.0	77.5 74.5	84.5 81.0	84.5 81.5	71.5 68.5	62.5 57.5	46.5 44.5
10	38.0 36.0	35.5 33.0	50.0 44.5	51.0 49.0	66.5 62.0	76.5 69.5	78.0 74.5	83.0 80.0	85.0 81.0	72.5 69.5	60.0 57.0	46.5 44.5
11	38.0 35.5	38.0 33.5	47.5 44.0	51.0 49.0	67.0 64.0	80.0 72.5	78.5 75.0	83.0 79.5	84.0 80.5	72.5 70.0	58.5 56.5	46.5 46.0
12	38.5 37.0	36.0 35.0	49.5 45.0	51.0 49.5	68.5 63.5	81.0 73.5	78.5 76.0	82.0 79.0	85.0 80.0	71.0 69.0	58.5 56.0	47.0 46.0
13	39.0 36.0	38.0 35.0	51.0 46.5	50.0 49.5	70.5 64.0	81.0 75.0	80.0 76.5	81.0 78.0	84.0 80.5	71.5 68.5	59.5 57.5	47.0 44.5
14	39.0 37.5	39.5 35.5	50.0 47.0	54.5 49.0	71.0 65.0	78.5 74.5	81.0 75.0	81.0 77.5	82.0 80.0	70.0 69.0	59.5 58.0	45.0 44.0
15	40.0 38.0	40.0 36.0	49.0 47.5	54.0 50.5	72.0 66.5	76.5 73.0	81.5 76.0	81.0 77.5	80.0 76.5	68.5 65.0	59.5 58.5	46.0 44.0
16	39.5 39.0	40.0 36.0	48.5 47.0	53.5 51.5	71.0 67.0	73.0 71.5	79.0 75.0	80.0 77.0	77.5 74.5	67.5 64.5	59.0 58.0	44.0 43.5
17	41.0 39.0	40.0 36.5	48.0 45.5	53.0 50.0	71.0 66.0	76.0 70.0	79.5 74.0	80.5 78.5	76.0 70.5	66.5 64.5	59.5 57.5	44.5 44.0
18	41.0 39.5	42.0 38.0	47.0 45.5	52.5 50.5	70.0 66.5	77.0 71.0	80.0 74.0	80.5 77.5	74.0 71.0	67.5 65.0	58.5 55.5	44.5 43.5
19	40.0 39.5	44.5 39.5	49.0 45.5	54.0 51.0	70.5 66.5	76.5 71.0	80.0 77.5	78.5 76.5	73.0 70.0	68.0 65.5	57.0 55.0	44.5 43.5
20	40.0 37.0	43.0 40.5	50.0 46.5	54.5 52.0	69.5 66.5	77.0 73.0	78.0 75.5	77.0 75.5	73.0 72.0	66.5 65.5	57.0 55.0	45.5 43.5
21	38.0 36.5	43.0 40.5	49.0 47.0	55.0 52.0	69.0 66.0	75.0 73.0	80.0 75.0	77.0 76.0	74.5 72.0	66.5 64.5	54.5 52.5	45.0 43.0
22	38.0 36.0	43.0 41.0	47.0 46.0	57.0 52.5	70.0 66.5	74.0 72.5	83.5 75.0	78.0 76.0	74.0 72.0	64.5 63.0	54.0 51.5	44.0 42.0
23	37.0 35.0	43.0 41.0	48.0 46.5	61.5 53.0	69.5 67.5	77.5 73.0	83.5 78.5	80.0 77.0	75.0 72.5	63.5 62.0	53.0 51.0	44.0 43.0
24	37.5 35.0	47.5 40.5	47.5 47.0	59.5 55.0	68.5 66.5	76.0 73.0	85.0 80.0	81.5 77.5	77.0 73.0	64.5 61.5	53.0 52.0	44.0 42.0
25	36.5 34.5	48.5 41.0	49.0 46.0	60.0 53.0	70.0 66.0	74.5 73.0	85.0 80.0	81.5 78.0	76.0 74.0	64.5 61.5	53.0 50.5	42.5 39.5
26	35.0 31.5	44.0 41.0	51.0 46.5	60.5 56.5	69.5 65.5	74.5 71.5	84.0 80.5	81.5 78.5	77.0 74.5	63.0 62.0	52.0 50.5	42.5 41.0
27	34.5 31.5	48.5 42.0	53.0 47.5	60.0 57.5	70.0 66.0	72.5 71.5	86.0 80.0	83.0 79.0	75.0 74.5	62.5 60.5	52.0 50.5	42.5 39.5
28	33.5 31.5	45.5 41.5	54.5 49.0	61.0 56.0	66.5 59.0	71.5 71.0	87.0 80.0	83.0 79.0	75.5 74.0	62.0 59.5	52.0 49.5	42.5 41.0
29	34.5 31.5		57.0 50.0	57.0 55.0	66.5 61.0	73.5 70.5	85.0 80.5	82.0 79.5	74.5 72.5	62.0 59.5	51.0 49.0	41.5 40.5
30	34.5 32.5		55.0 52.0	57.5 53.5	66.0 63.0	75.0 71.0	85.0 80.0	83.5 80.5	74.5 72.0	62.5 60.5	50.0 47.0	41.5 40.0
31	35.0 32.5		52.0 50.5		68.0 62.0		84.0 81.0	83.0 79.5		63.0 61.0		41.5 37.5

Maximum and Minimum Water Temperatures--York River, Virginia--VIMS--Special Scientific Report No. 16
Addendum No. 4 (1962)

Date	Jan. max min		Feb. max min		Mar. max min		Apr. max min		May max min		Jun. max min		Jul. max min		Aug. max min		Sep. max min		Oct. max min		Nov. max min		Dec. max min	
1	41.0	39.0	39.0	35.5	43.5	40.5	55.0	47.5	69.0	62.5	77.0	71.5	76.0	72.5	81.5	77.5	81.0	77.5	70.0	67.0	57.0	55.0	50.5	49.5
2	40.5	38.5	37.5	37.0	42.0	39.0	52.0	48.5	66.5	62.0	75.5	71.5	80.5	74.0	81.5	78.0	80.5	77.5	69.5	67.5	57.0	55.0	50.0	48.5
3	42.5	39.0	39.5	37.0	42.5	39.5	52.0	47.5	67.0	61.0	73.0	70.5	76.0	74.0	79.0	78.0	78.0	74.5	68.5	67.5	56.0	55.0	49.0	48.5
4	43.5	40.0	41.0	37.5	42.5	40.0	53.5	48.0	65.0	61.0	74.0	70.5	75.0	71.5	81.0	77.0	77.0	76.5	69.5	66.0	55.0	54.0	49.0	49.0
5	45.0	41.0	40.0	39.0	41.0	39.5	54.5	49.0	69.0	62.0	72.5	70.5	73.0	71.5	81.0	78.5	78.0	76.0	70.5	67.5	54.0	53.0	50.0	49.0
6	43.5	42.0	40.5	38.5	40.0	39.5	57.0	50.0	67.0	63.0	73.5	70.0	76.0	72.0	81.5	76.5	77.5	75.5	70.5	68.5			49.5	47.5
7	42.5	41.0	40.0	37.0	39.5	38.5	58.0	51.5	67.5	63.5	75.5	70.5	78.5	75.5	81.5	79.0	75.5	74.0	70.0	68.0			47.5	46.0
8	42.5	41.0	39.0	38.0	39.5	38.0	53.5	51.5	68.5	64.5	76.5	71.5	81.0	77.0	82.0	78.0	75.0	73.0	71.5	68.0			47.0	45.0
9	41.5	40.0	38.5	37.5	40.0	38.5	57.5	52.0	66.0	64.0	78.0	71.5	80.5	76.0	82.5	79.0	76.0	73.0	70.0	69.0			47.5	45.5
10	41.5	38.5	38.5	37.0	40.0	39.0	57.0	52.5	68.0	63.0	78.5	73.5	81.5	76.5	80.0	78.5	78.0	76.0	70.0	68.5			45.0	43.5
11	40.0	36.5	37.5	36.5	41.5	39.0	56.0	54.5	65.5	63.5	75.5	73.5	81.0	75.5	78.5	77.0	77.0	75.0	70.5	68.5			44.0	41.5
12	38.5	36.0	42.0	40.0	43.5	41.0	55.0	54.0	67.5	63.5	73.5	70.0	80.0	76.5	79.5	76.0	77.0	74.5	71.0	68.5			44.0	41.5
13	37.5	36.0	37.5	35.0	43.5	39.5	55.0	52.0	65.0	63.5	73.0	71.0	80.0	76.5	78.0	76.5	78.5	74.5	71.0	69.0			41.5	39.0
14	36.5	34.5	38.0	35.0	43.5	40.0	54.5	51.5	72.5	63.5	71.5	70.5	80.0	77.5	79.0	77.0	77.5	76.5	70.5	68.5			40.0	37.0
15	39.5	36.0	39.0	36.0	42.5	41.0	53.5	50.5	71.5	65.0	74.0	70.0	80.5	78.0	80.0	76.5	76.0	75.0	70.5	68.5			38.5	37.5
16	39.5	36.5	37.5	36.5	45.0	41.5	54.5	50.0	71.0	68.0	76.0	71.5	82.0	77.5	81.5	76.5	75.5	74.0	71.0	68.5			38.5	37.5
17	39.5	37.0	39.0	36.5	44.0	41.0	52.5	50.0	70.0	67.5	77.5	72.0	78.5	77.0	79.5	77.0	75.0	73.5	70.5	69.0			39.0	37.5
18	38.0	36.5	40.5	37.0	45.0	41.0	53.0	49.5	72.0	67.0	78.5	73.5	80.5	76.5	78.5	76.5	79.5	73.5	68.5	66.5			39.0	38.5
19	37.5	37.0	39.5	34.5	44.5	42.0	54.0	50.5	75.0	69.5	79.5	75.0	81.0	77.0	80.0	75.5	75.0	73.5	68.0	66.5	55.5	51.0	39.5	38.0
20	38.0	36.5	40.0	38.5	49.0	42.5	53.0	52.0	73.5	69.5	76.5	74.0	82.0	76.5	80.0	77.0	76.0	74.0	68.0	66.0	50.0	49.5	40.5	39.0
21	38.5	36.5	40.5	38.5	47.5	44.5	55.5	50.5	74.0	70.0	76.0	73.0	81.0	77.5	81.0	77.5	76.0	71.5	67.5	66.5	50.0	48.5	39.0	37.5
22	40.5	37.5	41.5	39.5	45.0	44.0	57.5	52.5	75.0	71.0	78.0	74.0	81.0	78.0	79.0	77.5	73.5	70.5	67.0	66.0	52.8		38.5	37.5
23	41.5	39.0	41.5	39.5	47.5	44.0	56.0	53.5	75.5	71.5	78.5	75.0	80.5	76.5	78.5	77.0	70.5	69.0	67.0	64.5			39.5	37.0
24	40.0	38.5	43.0	39.0	47.5	44.5	60.5	53.5	75.0	72.0	78.5	75.0	80.0	78.0	79.0	76.0	70.0	68.0	66.5	65.5	51.0	42.0	39.0	37.5
25	40.5	38.5	41.5	40.5	48.5	45.0	59.0	55.5	75.0	71.0	79.0	74.0	79.0	78.0	80.0	76.0	69.5	67.5	63.0	58.5			38.0	37.5
26	42.0	40.0	42.0	40.5	47.5	47.0	64.0	56.0	76.0	70.5	78.0	76.0	80.0	77.5	81.0	77.0	69.0	68.5	64.0	55.5	49.5	48.0	38.0	36.0
27	42.0	39.5	43.5	41.0	49.0	45.5	63.5	59.5	73.5	70.5	78.5	76.0	80.0	77.0	79.0	77.5	68.5	68.0	60.0	56.5	49.0	48.0	39.0	36.0
28	41.0	38.5	45.0	41.0	50.5	46.5	66.0	59.0	71.0	69.0	76.5	75.5	80.5	77.0	78.5	76.5	69.0	67.5	59.5	56.0	49.0	48.5	38.5	37.0
29	39.0	37.5			51.0	47.5	67.5	61.0	70.0	69.0	75.5	74.5	78.5	77.0	78.5	75.0	69.0	66.0	59.0	56.5	49.5	48.5	37.5	37.0
30	39.5	38.0			55.0	47.5	67.0	61.0	73.0	69.0	74.0	73.0	80.0	77.0	79.0	76.0	69.0	65.0	58.5	55.5	50.5	48.5	35.5	37.0
31	38.5	35.5			56.0	48.5			76.5	70.5			79.5	77.5	81.0	76.5			58.5	57.5			36.0	31.5