Early estimates for the native population of the Seward Peninsula were generalized in terms of the entire region. The 1890 census reported a population of 2,305 living between Saint Michael and the north coast of the Seward Peninsula (Porter 1893:7-8). Small populations of natives living in villages along the coastline of Norton Sound during the late 1800s were documented by Petroff (1884:11). Kobelev's population estimate for Cape Nome in the late 1700s was 60 to 100 (Ray 1975:110111). During the nineteenth century, there were twenty-two tribes, or political units in the Bering Straits region (Ray 1975:7). Two distinct Eskimo languages, Inupiak and Yupik, are spoken in the region. The boundary between the two languages lies near Golovnin Bay where the Inupiak dialects of the Fish River and Cape Nome people meet the Unaluk dialect of the Yupik (Ray 1975:7-8).

Dorothy Jean Ray reports on the Eskimo place-names for villages and camps in the Solomon area. The name of the seasonal fishing and squirrel hunting village at the mouth of the Solomon River was Angutak (Ray 1964:71; Ray 1983:262, Map 2) and Amutach on Kobelev's map of 1779 (Ray 1983:231). Spruce Creek was known as Okpiktulik, or "place of the willows", while on Kobelev's map the camp is known as Ochrutulach (Ray 1983:231,241, and 263). Tapkak, "sandy beach", was a small area and old village on the coast east of Solomon (Ray 1983:233). The Eskimo name for the village at Safety was Chingvak. Several Eskimo villages were located in the Cape Nome area. Setuk, meaning "white whale" or beluga, was a small village near the cape (Ray 1983:251). Ayasayuk (Antschirag on Kobelev's map of 1779) was the name of a large village located at the base of Cape Nome (Ray 1975:3; Ray 1983:262). Both Nusok (the Nuk site, SOL-002) and Mupterukshuk (Memtachagran on Kobelev's map are villages located on the sand spit east of Cape Nome (Ray 1983:231, 235).

Prehistory of the Seward Peninsula

The date of the first occupation of the Seward Peninsula is uncertain. Evidence from Old Crow in the Yukon Territory suggests the possibility of man's presence in portions of Alaska and Canada as long as 20,000 years ago (Dumond 1977:154). Larsen suggests that Arctic Big Game Hunters may have hunted bison, horse, and mammoth on the Seward Peninsula 13,000 to 15,000 years ago (Larsen 1968:76). Early human occupation of the Seward Peninsula seems to be an almost certainty considering the Peninsula's location astride one of the most likely routes of human migration into North America from Asia. Presently, the earliest identifiable artifacts from the Seward Peninsula are associated with the finds from Trail Creek where an ornamented bone point with a slot for a side blade was discovered. These blades and microblades are the earliest cultural evidence of the Paleo-arctic tradition and represent tundra-dwelling hunters which inhabited the region approximately 10,000 years ago (Dumond 1977:155).

About 6,000 years ago, assemblages of the Northern Archaic tradition are recognized in the interior of Alaska. The tradition is characterized by side-notched projectile points. By approximately 4,000 years ago, people of the Arctic Small Tool tradition began exploiting the tundra environment, hunting caribou and musk oxen (Dumond 1977:158). The Arctic Small Tool tradition gradually evolved into the Norton tradition around 2,000 years ago.

Public-Data File 86-22

STREAMFLOW DATA FOR MIDWAY CREEK, KODIAK A-4 QUADRANGLE, ALASKA

By
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Alaska Division of
Geological and Geophysical Surveys

April 30, 1986

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INTRODUCTION

Midway Creek is a small stream 50 mi SW of Kodiak, Alaska, near the community of Old Harbor. The stream is being studied as part of the Old Harbor Hydroelectric Feasibility Project. The Water Resources Section of the Alaska Division of Geological and Geophysical Surveys (DGGS) was contracted by the Alaska Power Authority (APA) to reduce and summarize flow data for Midway Creek. An Anchorage consulting firm, DOWL Engineers, collected stage and temperature data on Midway Creek for APA and established discharge rating curves based on miscellaneous streamflow measurements.

No weather records exist for the Old Harbor area during the gaging period 1982-1985. The nearest active weather station to Old Harbor is Kodiak where mean annual precipitation is 72.24 in. Shearwater Bay, 18 mi NE of Old Harbor, has weather records for 1951-1964 and a mean annual precipitation of 98.86 in., or 25 percent greater than Kodiak. The climate of Old Harbor is probably similar to Shearwater Bay, and weather patterns in Kodiak are also similar enough for general comparisons. Precipitation at Kodiak was above normal in 1985, near normal in 1983, and below normal in 1982 and 1984. Streamflow for Midway Creek from 1982-1985 was 17 cubic feet per second (cfs). Streamflow generally mirrored precipitation patterns for Kodiak with 1983 having near normal flow (16 cfs), 1985 having the highest flow (22 cfs), and 1984 with the lowest annual mean flow (11 cfs).

TASKS

Using DOWL Engineers' data from January 1982 to December 1985, the Water Resources Section produced the following: daily, monthly, quarterly, and annual flow summaries; power and energy estimate summaries; flow duration

tables; and peak-flow time and magnitude plots. It should be remembered that the power and energy estimates are based on just four years of flow record, an insufficient period of time to thoroughly define the streamflow of Midway Creek.

METHODS

The streamflow summaries, hydrographs, and flow-duration data (see computer printout) were calculated with simple sums and averages. Power and energy potentials (see printout) were made with head (273 ft) and system efficiency (83%) figures supplied by APA. Daily peak-flow timing is presented on a monthly bar graph (see printout) relating percent of time peak flows occur during a day to the 4-hour time increment in which the flow takes place. Finally, the printout has daily and monthly instantaneous power tables and graphs derived from maximal or peak flow events.

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JANUARY

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	16.07	7.20	26.00	15.00	9.45	308.520	7404.48	3
2	16.80	7.20	29.00	13.00	11.29	314.921	7558.10	3
3	15.30	8.90	26.00	11.00	9.33	293.798	7051.16	3
4	13.90	9.30	23.00	9.40	7.88	266.915	6405.95	3
5	13.00	8.70	21.00	9.30	6.93	249.633	5991.18	3
6	14.33	9.00	17.00	17.00	4.62	275.236	6605.66	3
7	17.93	8.80	30.00	19.00	12.63	344.365	8264.76	3
8	18.67	5.00	39.00	12.00	17.95	358.447	8602.72	3
9	18.97	6.60	41.00	9.30	19.13	364.207	8740.98	3
10	16.27	5.60	36.00	7.20	17.11	312.361	7496.66	3
11	14.67	6.20	30.00	7.80	13.30	281.637	6759.28	3
12	18.37	8.10	26.00	21.00	9.24	352.686	8464.46	3
13	16.00	7.00	23.00	18.00	8.19	307.240	7373.76	3
14	12.13	7.40	16.00	13.00	4.37	232.990	5591.77	3
15	11.67	9.00	15.00	11.00	3.06	224.029	5376.70	3
16	9.87	6.80	13.00	9.80	3.10	189.465	4547.15	3
17	9.57	6.50	13.00	9.20	3.27	183.704	4408.89	3
18	9.33	6.40	13.00	8.60	3.36	179.223	4301.36	3
19	9.13	6.20	13.00	8.20	3.49	175.383	4209.19	3
20	10.97	7.80	17.00	8.10	5.23	210.587	5054.10	3
21	11.53	7.60	18.00	9.00	5.64	221.469	5315.25	3
22	11.47	7.60	17.00	9.80	4.92	220.189	5284.53	3
23	13.40	7.20	18.00	15.00	5.57	257.313	6175.52	3
24	13.93	5.80	22.00	14.00	8.10	267.555	6421.32	3
25	14.93	5.80	22.00	17.00	8.30	286.757	6882.18	3
26	14.83	6.50	20.00	18.00	7.29	284.837	6836.09	3
27	10.97	6.40	19.00	7.50	6.98	210.587	5054.10	3
28	9.50	5.60	16.00	8.90	5.67	182.424	4378.17	3
29	9.23	4.20	16.00	7.50	6.09	177.303	4255.27	3
30	8.53	3.70	15.00	6.90	5.82	163.861	3932.67	3
31	9.37	4.60	17.00	6.50	6.68	179.863	4316.72	3

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=FEBRUARY

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	8.97	4.50	16.00	6.40	6.16	172.182	4132.38	3
2	10.77	6.40	17.00	8.90	5.54	206.747	4961.93	3
3	10.27	6.40	16.00	8.40	5.06	197.146	4731.50	3
4	9.30	6.40	15.00	6.50	4.94	178.583	4286.00	3
5	9.07	4.80	15.00	7.40	5.30	174.103	4178.46	1
6	9.00	4.80	15.00	7.20	5.33	172.823	4147.74	3
7	11.93	8.80	16.00	15.00	6.20	229.150	5499.60	3
8	11.30	8.90	15.00	14.00	5.57	216.988	5207.72	3
9	10.53	4.60	14.00	13.00	5.16	202.266	4854.39	3
10	9.80	4.40	17.00	6.80	6.69	180.503	4332.08	3
11	9.43	4.00	18.00	6.30	7.51	181.144	4347.45	3
12	9.30	2.90	19.00	6.00	8.54	178.583	4286.00	3
13	8.17	4.80	14.00	5.70	5.07	156.820	3763.69	3
14	7.97	4.20	14.00	5.70	5.28	152.980	3671.52	3
15	9.03	5.70	14.00	7.40	4.38	173.463	4163.10	3
16	9.97	5.70	15.00	9.20	4.70	191.385	4593.24	3
17	10.03	5.70	16.00	8.40	5.34	192.665	4623.96	3
18	9.30	5.70	16.00	6.20	5.81	178.583	4286.00	3
19	8.17	4.00	15.00	5.50	5.97	156.820	3763.69	3
20	8.27	3.00	16.00	5.80	6.84	158.741	3809.78	3
21	8.27	2.00	17.00	5.80	7.80	158.741	3809.78	3
22	10.37	2.00	24.00	5.70	11.78	202.906	4869.75	3
23	9.90	2.00	22.00	5.70	10.64	190.105	4562.51	3
24	8.53	2.00	18.00	5.60	8.39	163.861	3932.67	3
25	8.07	1.00	17.00	6.20	8.16	154.900	3717.60	3
26	9.47	1.00	19.00	8.40	9.05	181.784	4362.81	3
27	8.83	1.00	19.00	6.50	9.22	169.622	4070.93	3
28	8.03	1.00	17.00	6.10	8.17	154.260	3702.24	3
29	5.80	5.80	5.80	5.80	.	111.375	2672.99	1

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MARCH

DAY	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	7.57	1.00	16.00	5.70	7.67	145.299	3487.17	3
2	7.60	1.00	16.00	5.80	7.66	145.939	3502.54	3
3	7.73	1.00	16.00	6.20	7.62	148.499	3563.98	3
4	8.33	1.50	15.00	8.50	6.75	160.021	3840.50	3
5	10.50	1.50	15.00	15.00	7.79	201.626	4839.03	3
6	8.35	1.50	15.00	8.45	5.89	160.341	3848.18	4
7	7.80	2.00	15.00	7.10	5.87	149.780	3594.71	4
8	8.83	2.00	15.00	9.15	6.63	169.462	4067.09	4
9	10.80	4.00	16.00	11.60	5.71	207.387	4977.29	4
10	12.00	5.00	15.00	14.00	4.89	230.430	5530.32	4
11	12.00	10.00	15.00	11.50	2.45	230.430	5530.32	4
12	10.78	7.50	16.00	9.80	3.78	206.907	4965.77	4
13	10.97	7.00	20.00	8.45	6.07	210.747	5057.94	4
14	10.30	7.00	19.00	7.60	5.82	197.786	4746.86	4
15	9.90	6.40	18.00	7.60	5.45	190.105	4562.51	4
16	10.12	6.20	18.00	8.15	5.81	194.425	4666.21	4
17	12.07	5.90	18.00	12.20	5.45	231.870	5564.88	4
18	12.35	5.90	20.00	11.75	6.38	237.151	5691.62	4
19	20.92	5.90	50.00	13.90	20.37	401.812	9643.50	4
20	11.95	5.40	20.00	11.20	6.78	229.470	5507.28	4
21	11.73	5.60	24.00	8.65	8.38	225.149	5403.58	4
22	11.55	7.00	24.00	7.60	8.31	221.789	5322.93	4
23	12.55	6.80	21.00	11.20	6.76	240.991	5783.79	4
24	11.65	5.90	19.00	10.85	6.40	223.709	5369.02	4
25	10.12	5.90	18.00	8.30	5.55	194.425	4666.21	4
26	9.65	5.90	19.00	6.85	6.25	185.304	4447.30	4
27	9.92	5.90	21.00	6.40	7.39	190.505	4574.04	4
28	9.27	5.00	20.00	6.05	7.17	178.103	4274.48	4
29	9.60	5.00	21.00	6.20	7.62	184.344	4424.26	4
30	9.35	5.00	20.00	6.20	7.13	179.543	4309.04	4
31	9.05	5.10	19.00	6.05	6.66	173.783	4170.78	4

HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=APRIL

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KW)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	10.60	5.10	18.00	9.65	6.03	203.587	4885.12	8
2	10.88	6.10	18.00	9.70	5.15	208.827	5011.85	8
3	9.05	5.10	18.00	6.55	6.01	173.783	4170.78	8
4	8.68	5.10	18.00	5.80	6.24	166.582	3997.96	8
5	8.88	5.90	17.00	6.30	5.43	170.422	4090.13	4
6	9.20	5.70	17.00	7.05	5.35	176.663	4239.91	8
7	9.83	5.60	17.00	8.35	5.41	188.665	4527.95	4
8	9.37	4.80	16.00	8.35	5.20	180.023	4320.56	4
9	9.50	4.80	16.00	8.60	5.08	182.420	4378.17	4
10	9.08	4.80	16.00	7.75	5.08	174.263	4182.30	4
11	8.83	4.60	17.00	6.85	5.63	169.462	4067.09	8
12	10.53	5.50	17.00	9.80	5.10	202.106	4850.55	4
13	11.12	5.50	17.00	11.00	5.30	213.628	5127.07	4
14	8.88	5.40	17.00	6.55	5.51	170.422	4090.13	4
15	8.52	5.40	17.00	5.85	5.67	163.701	3928.83	4
16	8.90	5.70	17.00	6.45	5.45	170.902	4101.65	4
17	9.23	5.60	17.00	7.15	5.25	177.143	4251.43	4
18	10.17	5.00	17.00	9.35	5.81	195.385	4689.25	4
19	8.32	5.20	17.00	5.55	5.79	159.861	3836.66	8
20	8.15	4.70	17.00	5.45	5.91	156.500	3756.01	4
21	8.68	4.60	17.00	6.35	5.64	166.582	3997.96	8
22	9.35	4.50	18.00	7.45	5.97	179.543	4309.04	4
23	10.13	4.30	20.00	8.10	6.83	194.425	4666.21	8
24	11.02	4.20	21.00	9.45	7.21	211.708	5080.98	4
25	10.32	4.20	20.00	8.55	6.79	198.266	4758.38	8
26	11.37	7.60	20.00	8.95	5.85	218.428	5242.28	8
27	12.28	8.30	20.00	10.40	5.27	235.711	5657.06	8
28	12.45	9.10	20.00	10.35	5.10	239.071	5737.71	8
29	13.67	9.20	21.00	12.25	5.56	262.594	6302.26	4
30	13.70	8.10	21.00	12.85	5.94	263.074	6313.78	4

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MAY

DAY	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	12.52	9.20	21.00	9.95	5.66	240.511	5772.3	4
2	13.30	9.20	21.00	11.50	5.26	255.393	6129.4	4
3	16.75	11.00	22.00	17.00	5.12	321.642	7719.4	4
4	16.75	11.00	21.00	17.50	4.35	321.642	7719.4	4
5	19.25	19.00	20.00	19.00	0.50	369.648	8871.6	4
6	19.50	18.00	20.00	20.00	1.00	374.449	8986.8	4
7	18.75	18.00	19.00	19.00	0.50	360.047	8641.1	4
8	20.50	19.00	23.00	20.00	1.91	393.651	9447.6	4
9	23.50	18.00	29.00	23.50	4.65	451.259	10830.2	4
10	27.50	16.00	47.00	23.50	13.48	528.069	12673.7	4
11	26.00	15.00	44.00	22.50	12.57	499.265	11982.4	4
12	23.50	15.00	34.00	22.50	7.94	451.259	10830.2	4
13	20.75	15.00	26.00	21.00	4.79	398.452	9562.8	4
14	20.50	15.00	28.00	19.50	5.80	393.651	9447.6	4
15	25.00	16.00	34.00	25.00	8.04	480.062	11521.5	4
16	31.25	17.00	48.00	30.00	14.31	600.078	14401.9	4
17	28.50	18.00	50.00	23.00	14.73	547.271	13134.8	4
18	23.25	20.00	29.00	22.00	4.03	446.458	10715.0	4
19	21.25	20.00	24.00	20.50	1.89	408.053	9793.3	4
20	19.00	10.00	26.00	20.00	6.83	364.848	8756.3	4
21	21.25	17.00	26.00	21.00	4.43	408.053	9793.3	4
22	21.50	16.00	30.00	20.00	6.81	412.854	9908.5	4
23	22.25	13.00	30.00	23.00	8.54	427.256	10254.1	4
24	23.00	13.00	33.00	23.00	9.52	441.658	10599.8	4
25	22.25	12.00	34.00	21.50	10.08	427.256	10254.1	4
26	41.50	10.00	102	27.00	41.77	796.904	19125.7	4
27	42.60	9.40	102	29.50	41.06	818.027	19632.6	4
28	34.00	13.00	68.00	27.50	24.67	652.885	15669.2	4
29	32.50	13.00	56.00	30.50	19.02	624.081	14978.0	4
30	32.35	9.40	58.00	31.00	22.18	621.201	14908.8	4
31	34.37	9.90	61.00	33.50	22.73	660.086	15842.1	4

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JUNE

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KW)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	35.23	8.90	58.00	37.00	23.17	676.41	16233.8	4
2	52.50	10.00	111	44.50	46.41	1008.13	24195.2	4
3	54.73	8.90	138	36.00	58.83	1050.86	25220.6	4
4	47.87	8.50	113	35.00	47.77	919.32	22063.7	4
5	67.87	8.50	170	46.50	74.68	1303.37	31280.9	4
6	46.00	7.00	105	36.00	44.44	883.32	21199.6	4
7	35.85	8.40	66.00	34.50	27.15	688.41	16521.8	4
8	30.95	7.80	52.00	32.00	21.84	594.32	14263.6	4
9	33.15	7.60	61.00	32.00	25.45	636.56	15277.5	4
10	40.75	14.00	82.00	33.50	32.69	782.50	18780.0	4
11	37.62	9.50	76.00	32.50	30.88	722.49	17339.9	4
12	35.25	17.00	59.00	32.50	19.43	676.89	16245.3	4
13	28.67	19.00	47.00	20.00	15.89	550.47	13211.3	3
14	31.25	15.00	45.00	32.50	16.01	600.08	14401.9	4
15	23.75	12.00	43.00	20.00	13.48	456.06	10945.4	4
16	20.75	11.00	39.00	16.50	12.45	398.45	9562.8	4
17	19.62	9.50	37.00	16.00	11.98	376.85	9044.4	4
18	19.57	8.30	36.00	17.00	11.72	375.89	9021.3	4
19	20.27	7.10	41.00	16.50	14.32	389.33	9343.9	4
20	20.70	5.80	38.00	19.50	14.24	397.49	9539.8	4
21	29.75	11.00	38.00	35.00	12.38	571.27	13710.6	4
22	25.25	11.00	34.00	28.00	10.21	484.86	11636.7	4
23	25.50	14.00	36.00	26.00	9.04	489.66	11751.9	4
24	29.75	15.00	38.00	33.00	10.63	571.27	13710.6	4
25	37.00	25.00	57.00	33.00	14.24	710.49	17051.8	4
26	38.00	26.00	65.00	30.50	18.49	729.70	17512.7	4
27	36.25	27.00	43.00	37.50	6.70	696.09	16706.2	4
28	34.50	16.00	51.00	35.50	15.02	662.49	15899.7	4
29	35.00	16.00	60.00	32.00	19.71	672.09	16130.1	4
30	35.75	16.00	62.00	32.50	21.33	686.49	16475.7	4

DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBIOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JULY

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	28.25	16.00	45.00	26.00	14.17	542.471	13019.3	4
2	29.75	15.00	53.00	25.50	18.03	571.274	13710.6	4
3	31.75	14.00	55.00	29.00	20.98	609.679	14632.3	4
4	40.50	12.00	94.00	28.00	38.46	777.701	18664.8	4
5	24.67	9.70	41.00	24.00	16.12	473.822	11371.7	4
6	20.67	7.70	33.00	21.00	12.68	397.012	9528.3	4
7	22.87	6.50	37.00	24.00	13.48	439.257	10542.2	4
8	19.87	5.50	33.00	20.50	11.43	381.650	9159.6	4
9	17.60	4.40	32.00	17.00	11.55	337.964	8111.1	4
10	15.75	4.00	30.00	14.50	10.78	302.439	7258.5	4
11	14.50	4.00	29.00	12.50	10.47	278.436	6682.9	4
12	13.37	3.50	27.00	11.50	9.84	256.833	6164.0	4
13	12.58	3.30	26.00	10.50	9.65	241.471	5795.3	4
14	12.45	2.80	25.00	11.00	9.25	239.071	5737.7	4
15	14.70	2.80	35.00	10.50	14.02	282.277	6774.6	4
16	15.80	3.40	36.00	11.50	14.18	299.559	7189.4	4
17	15.42	3.80	38.00	9.95	15.42	296.199	7108.8	4
18	18.73	4.00	54.00	8.45	23.61	359.567	8629.6	4
19	22.45	4.00	73.00	8.40	33.75	431.096	10346.3	4
20	14.60	0.50	46.00	5.95	21.16	280.356	6728.6	4
21	13.55	0.50	42.00	5.85	19.19	260.194	6244.7	4
22	12.65	0.50	40.00	5.05	18.50	242.912	5829.9	4
23	11.22	0.50	34.00	5.20	15.47	215.548	5173.2	4
24	11.37	0.50	32.00	6.50	14.22	218.428	5242.3	4
25	10.51	0.85	29.00	6.10	12.72	201.866	4844.8	4
26	10.05	2.90	26.00	5.65	10.84	192.985	4631.6	4
27	9.35	1.10	25.00	5.65	10.74	179.583	4309.0	4
28	9.31	0.93	24.00	6.15	10.17	178.727	4289.5	4
29	9.50	1.10	23.00	6.95	9.68	182.424	4378.2	4
30	9.42	2.70	20.00	7.50	7.94	180.984	4343.6	4
31	10.30	4.30	21.00	7.95	7.35	197.786	4746.9	4

DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83X,Q=FLOW & P=QHE/11.8

MONTH=AUGUST

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	11.32	4.40	23.00	8.95	8.12	217.068	5219.24	4
2	8.97	3.90	20.00	6.00	7.52	172.342	4136.22	4
3	9.12	4.50	20.00	6.00	7.33	175.223	4205.35	4
4	10.85	3.60	21.00	9.40	7.41	208.347	5000.33	4
5	11.77	3.70	22.00	10.70	7.80	226.109	5426.63	4
6	8.80	3.70	19.00	6.25	6.91	168.982	4055.57	4
7	9.25	3.70	23.00	5.15	9.25	177.623	4262.96	4
8	9.45	3.80	20.00	7.00	7.22	181.464	4355.13	4
9	9.75	3.60	23.00	6.20	8.92	187.224	4493.39	4
10	9.12	3.80	22.00	5.35	8.62	175.223	4205.35	4
11	8.83	3.50	21.00	5.40	8.17	169.462	4067.09	4
12	11.25	3.70	32.00	4.65	13.84	216.028	5184.68	4
13	11.85	3.70	35.00	4.35	15.84	227.550	5461.19	4
14	11.75	3.60	34.00	4.70	14.89	225.629	5415.11	4
15	10.55	3.90	30.00	4.15	12.97	202.586	4862.07	4
16	9.53	3.90	26.00	4.10	10.98	182.904	4389.69	4
17	8.83	4.00	23.00	4.15	9.45	169.462	4067.09	4
18	8.63	3.70	22.00	4.40	8.92	165.622	3974.92	4
19	8.53	3.60	22.00	4.25	8.99	163.701	3928.83	4
20	7.78	3.50	20.00	3.80	8.15	149.299	3583.19	4
21	7.83	3.40	20.00	3.95	8.13	150.260	3606.23	4
22	8.00	3.30	18.00	5.35	6.81	153.620	3686.88	4
23	7.75	3.20	16.00	5.90	5.88	148.819	3571.67	4
24	7.63	2.30	16.00	6.10	6.29	146.419	3514.06	4
25	7.15	2.90	15.00	5.35	5.53	137.298	3295.15	4
26	7.28	2.90	15.00	5.60	5.50	139.698	3352.76	4
27	6.83	2.70	14.00	5.30	5.05	131.057	3145.37	4
28	7.12	2.70	13.00	6.40	4.59	136.818	3283.63	4
29	7.15	2.90	14.00	5.85	4.98	137.298	3295.15	4
30	7.63	2.90	15.00	6.35	5.43	146.899	3525.58	4
31	8.05	2.50	17.00	6.35	6.57	154.580	3709.92	4

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=SEPTEMBER

DAY	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KW)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	8.42	2.70	18.00	6.30	6.91	161.78	3882.7	4
2	7.53	2.40	15.00	6.35	5.58	144.50	3468.0	4
3	8.37	2.90	18.00	6.30	6.83	160.82	3859.7	4
4	7.83	2.80	18.00	5.45	7.00	150.26	3606.2	4
5	12.17	2.40	27.00	9.65	11.33	233.79	5611.0	4
6	11.00	1.80	25.00	8.60	11.17	211.23	5069.5	4
7	10.30	2.00	22.00	8.60	9.89	197.79	4746.9	4
8	15.58	2.30	23.00	10.50	9.18	299.08	7177.9	4
9	12.47	1.90	23.00	12.50	8.85	239.55	5749.2	4
10	11.90	2.00	25.00	10.30	9.82	228.51	5484.2	4
11	10.65	2.00	22.00	9.30	8.84	204.51	4908.2	4
12	21.30	2.00	65.00	9.10	29.50	409.01	9816.3	4
13	34.17	3.70	112	10.50	52.02	656.25	15749.9	4
14	52.65	2.60	163	22.50	74.25	1011.01	24264.3	4
15	50.10	2.40	166	15.00	78.82	962.05	23089.1	4
16	14.58	2.30	25.00	13.50	9.39	279.88	6717.0	4
17	35.02	2.10	112	13.00	51.57	672.57	16141.6	4
18	56.95	6.80	179	21.00	82.13	1093.58	26246.0	4
19	33.50	5.20	95.00	16.90	41.89	643.28	15438.8	4
20	44.05	5.00	143	14.10	66.35	845.87	20300.9	4
21	38.67	4.30	121	14.70	55.52	742.66	17823.8	4
22	25.98	3.90	38.00	31.00	15.10	498.78	11970.8	4
23	48.12	3.50	139	25.00	61.43	924.12	22178.9	4
24	19.30	3.20	32.00	21.00	12.03	370.61	8894.6	4
25	25.73	2.90	48.00	26.00	19.06	493.98	11855.6	4
26	26.98	2.90	54.00	25.50	21.13	517.99	12431.7	4
27	35.52	4.10	100	19.00	43.56	682.17	16372.1	4
28	30.87	3.70	56.00	31.50	21.41	589.04	14136.9	4
29	18.93	6.80	25.00	25.00	10.51	363.57	8725.6	3
30	22.40	6.20	42.00	19.00	18.14	430.14	10323.3	3

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOY DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=OCTOBER

DAY	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW*HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	11.00	7.00	15.00	11.00	5.66	211.228	5069.5	2
2	10.55	7.10	14.00	10.55	4.88	202.586	4862.1	2
3	9.05	6.10	12.00	9.05	4.17	173.783	4170.8	2
4	8.20	5.80	11.00	8.20	3.96	157.460	3779.1	2
5	8.50	5.00	12.00	8.50	4.95	163.221	3917.3	2
6	7.80	4.60	11.00	7.80	4.53	149.780	3594.7	2
7	6.70	4.50	8.90	6.70	3.11	128.657	3087.8	2
8	6.40	4.40	8.40	6.40	2.83	122.896	2949.5	2
9	5.95	4.90	7.00	5.95	1.48	114.255	2742.1	2
10	17.80	6.60	29.00	17.80	15.84	341.805	8203.3	2
11	14.50	12.00	17.00	14.50	3.54	278.436	6682.5	2
12	27.00	13.00	41.00	27.00	19.80	518.468	12443.2	2
13	16.00	11.00	21.00	16.00	7.07	307.240	7373.8	2
14	17.50	14.00	21.00	17.50	4.95	336.044	8065.0	2
15	29.00	17.00	41.00	29.00	16.97	556.672	13364.9	2
16	25.00	21.00	29.00	25.00	5.66	480.062	11521.5	2
17	22.00	16.00	28.00	22.00	8.49	422.493	10138.9	2
18	15.67	13.00	19.00	15.00	3.06	300.839	7220.1	3
19	14.33	13.00	16.00	14.00	1.53	275.236	6605.7	3
20	12.67	12.00	14.00	12.00	1.15	243.232	5837.6	3
21	14.33	12.00	19.00	12.00	4.04	275.236	6605.7	3
22	12.67	11.00	15.00	12.00	2.08	243.232	5837.6	3
23	11.33	10.00	13.00	11.00	1.53	217.628	5223.1	3
24	10.30	8.90	12.00	10.00	1.57	197.786	4746.9	3
25	9.80	8.40	11.00	10.00	1.31	188.184	4516.4	3
26	9.73	6.60	13.00	9.60	3.20	186.904	4485.7	3
27	9.07	6.00	12.00	9.20	3.00	174.103	4178.5	3
28	8.20	6.40	9.80	8.40	1.71	157.461	3779.1	3
29	7.47	6.10	8.60	7.70	1.27	143.379	3441.1	3
30	7.20	6.10	8.50	7.00	1.21	138.258	3318.2	3
31	7.67	7.00	8.50	7.50	0.76	147.219	3533.3	3

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=NOVEMBER

DAY	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KW)	ENERGY (KW*HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	8.67	8.50	9.00	8.50	0.29	166.42	3994.1	3
2	7.87	7.50	8.20	7.90	0.35	151.06	3625.4	3
3	8.03	7.10	8.50	8.50	0.81	154.26	3702.2	3
4	7.73	6.80	8.50	7.90	0.86	148.50	3564.0	3
5	7.43	6.70	8.50	7.10	0.95	142.74	3425.7	3
6	7.77	6.40	8.50	8.40	1.18	149.14	3579.3	3
7	16.40	6.70	34.00	8.50	15.27	314.92	7558.1	3
8	14.93	8.50	27.00	9.30	10.46	286.76	6882.2	3
9	17.50	7.50	34.00	11.00	14.40	336.04	8065.0	3
10	31.47	7.40	50.00	37.00	21.83	604.28	14501.7	3
11	17.23	7.70	25.00	19.00	8.78	330.92	7942.2	3
12	16.67	14.00	18.00	18.00	2.31	320.04	7681.0	3
13	13.33	11.00	15.00	14.00	2.08	256.03	6144.8	3
14	12.00	10.00	14.00	12.00	2.00	230.43	5530.3	3
15	11.00	10.00	12.00	11.00	1.00	211.23	5069.5	3
16	10.13	9.60	11.00	9.80	0.76	194.59	4670.0	3
17	9.13	8.50	9.80	9.10	0.65	175.38	4209.2	3
18	8.53	8.00	9.10	8.50	0.55	163.86	3932.7	3
19	9.33	8.50	11.00	8.50	1.44	179.22	4301.4	3
20	10.97	8.40	16.00	8.50	4.36	210.59	5054.1	3
21	13.80	8.50	23.20	9.70	8.16	264.99	6359.9	3
22	18.83	8.50	30.00	18.00	10.77	361.65	8679.8	3
23	15.03	8.10	22.00	15.00	6.95	288.68	6928.3	3
24	11.70	7.10	15.00	13.00	4.11	224.67	5392.1	3
25	12.93	6.80	18.00	14.00	5.68	248.39	5960.5	3
26	17.67	13.00	24.00	16.00	5.69	339.24	8141.9	3
27	19.00	15.00	27.00	15.00	6.93	364.85	8756.3	3
28	37.33	12.00	83.00	17.00	39.83	716.89	17205.4	3
29	60.00	15.00	149	16.00	77.08	1152.15	27651.6	3
30	29.00	13.00	53.00	21.00	21.17	556.87	13364.9	3

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN DAILY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=DECEMBER

DAY	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (24HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	27.67	12.00	45.00	26.00	16.56	531.269	12750.5	3
2	21.67	16.00	33.00	16.00	9.81	416.056	9985.3	3
3	15.17	6.50	27.00	12.00	10.61	291.238	6989.7	3
4	12.33	8.00	23.00	10.00	9.71	236.831	5683.9	3
5	14.47	3.40	22.00	18.00	9.79	277.796	6667.1	3
6	13.73	3.20	20.00	18.00	9.18	263.714	6329.1	3
7	14.80	2.40	22.00	20.00	10.79	284.197	6820.7	3
8	23.33	17.00	27.00	26.00	5.51	448.058	10753.4	3
9	26.30	14.00	41.00	23.90	13.66	505.026	12120.6	3
10	27.67	19.00	45.00	19.00	15.01	531.269	12750.5	3
11	33.67	16.00	55.00	30.00	19.76	646.484	15515.6	3
12	20.00	14.00	23.00	23.00	5.20	384.090	9217.2	3
13	16.67	12.00	20.00	18.00	4.16	320.042	7681.0	3
14	17.00	11.00	24.00	16.00	6.56	326.442	7834.6	3
15	16.97	9.90	23.00	18.00	6.61	325.802	7819.3	3
16	13.70	8.10	19.00	14.00	5.46	263.074	6313.8	3
17	10.37	6.40	15.00	9.70	4.34	199.066	4777.6	3
18	11.03	5.10	14.00	14.00	5.14	211.868	5084.8	3
19	12.50	8.50	16.00	13.00	3.77	240.031	5760.8	3
20	20.00	12.00	34.00	14.00	12.17	384.050	9217.2	3
21	22.33	17.00	31.00	19.00	7.57	428.856	10292.5	3
22	19.67	15.00	23.00	21.00	4.16	377.649	9063.6	3
23	15.67	13.00	19.00	15.00	3.06	300.839	7220.1	3
24	12.87	9.60	17.00	12.00	3.78	247.072	5929.7	3
25	11.13	7.40	15.00	11.00	3.80	213.788	5130.9	3
26	18.00	13.00	27.00	14.00	7.81	345.645	8295.5	3
27	19.33	13.00	28.00	17.00	7.77	371.248	8910.0	3
28	23.67	12.00	46.00	13.00	19.35	454.459	10907.0	3
29	24.00	12.00	48.00	12.00	20.78	460.860	11060.6	3
30	16.50	8.50	31.00	10.00	12.58	316.841	7604.2	3
31	13.93	5.80	26.00	10.00	10.66	267.555	6421.3	3

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN MONTHLY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH	MEAN FLOW (CFS.)	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HRS) (730.56HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
JANUARY	13.23	3.70	41.00	9.80	7.98	254.113	185645	93
FEBRUARY	9.31	1.00	24.00	6.40	5.81	178.764	130598	85
MARCH	10.58	1.00	50.00	7.90	6.81	203.256	148491	119
APRIL	10.02	4.20	21.00	7.95	5.18	192.457	140601	120
MAY	26.35	9.20	102	20.50	14.83	467.612	341619	124
JUNE	34.35	5.80	170	26.00	27.00	659.630	481899	119
JULY	16.88	0.50	94.00	11.50	16.22	324.178	236832	124
AUGUST	8.98	2.30	35.00	4.90	7.71	172.420	125963	124
SEPTEMBR	25.10	1.80	179	15.00	36.20	482.032	352155	118
OCTOBER	12.33	4.40	41.00	11.00	7.13	236.797	172995	76
NOVEMBER	16.05	6.40	149	10.50	18.19	308.157	225128	90
DECEMBER	18.26	2.40	55.00	16.00	10.27	350.683	256195	93

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
KARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MEAN QUARTERLY DISCHARGE SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

QUARTER	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW*HRS) (2191.5HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
FIRST_QUARTER	11.05	1.00	50.00	8.40	7.09	212.171	464974	297
SECOND_QUARTER	22.89	4.20	170	17.00	20.49	439.600	963389	363
THIRD_QUARTER	16.85	0.50	179	8.40	23.91	323.656	709291	366
FOURTH_QUARTER	15.75	2.40	149	12.00	13.13	302.488	662902	259

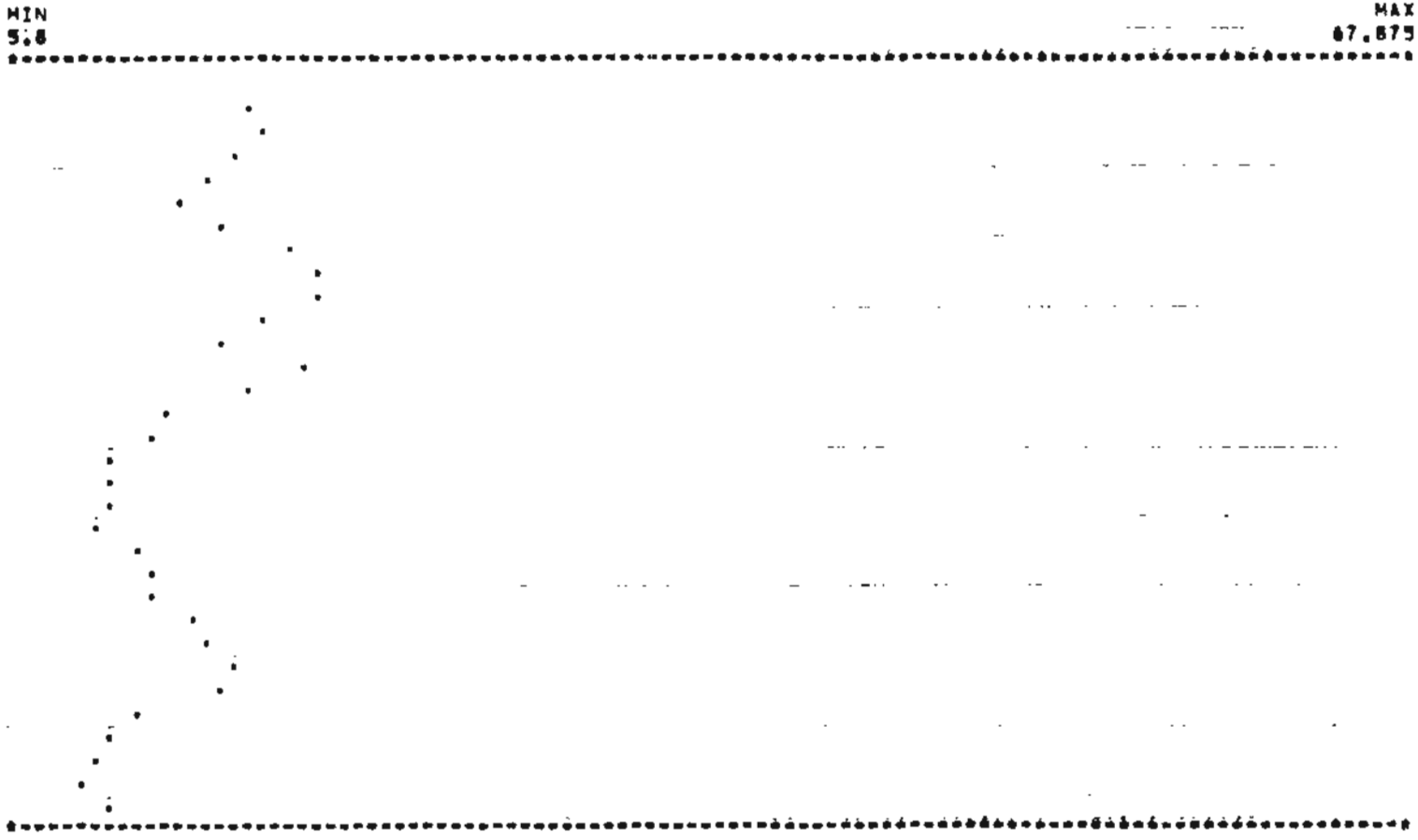
DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
OVERALL MEAN DISCHARGE
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

OBS	MEAN FLOW (CFS.	MINIMUM FLOW (CFS.)	MAXIMUM FLOW (CFS.)	MEDIAN FLOW (CFS.)	STANDARD DEVIATION OF MEAN	POWER (KWS)	ENERGY (KW-HOURS) (8766HRS X POWER)	NUMBER OF STAGE OBSERVATIONS
1	17.00	0.50	179	13.00	18.59	326.375	2861003	1285

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

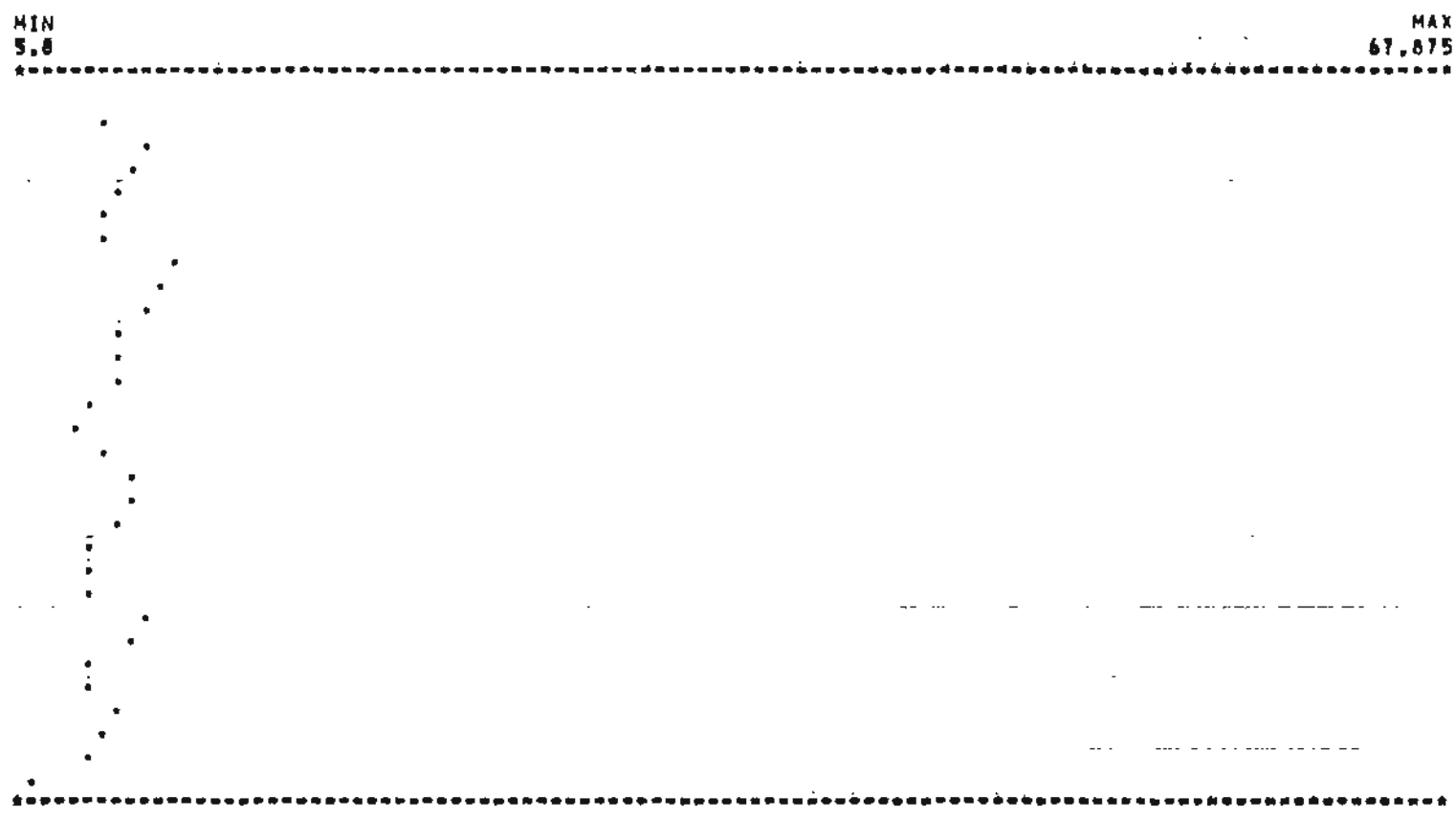
MONTH=JANUARY

MONTH	DAY	MEAN OF FLOW
JANUARY	1	16.07
JANUARY	2	16.40
JANUARY	3	15.30
JANUARY	4	13.90
JANUARY	5	13.00
JANUARY	6	14.33
JANUARY	7	17.93
JANUARY	8	18.67
JANUARY	9	18.97
JANUARY	10	16.27
JANUARY	11	14.67
JANUARY	12	18.37
JANUARY	13	16.00
JANUARY	14	12.13
JANUARY	15	11.67
JANUARY	16	9.87
JANUARY	17	9.57
JANUARY	18	9.33
JANUARY	19	9.13
JANUARY	20	10.97
JANUARY	21	11.53
JANUARY	22	11.47
JANUARY	23	13.40
JANUARY	24	13.93
JANUARY	25	14.93
JANUARY	26	14.83
JANUARY	27	10.97
JANUARY	28	9.50
JANUARY	29	9.23
JANUARY	30	8.53
JANUARY	31	9.37



MONTH=FEBRUARY

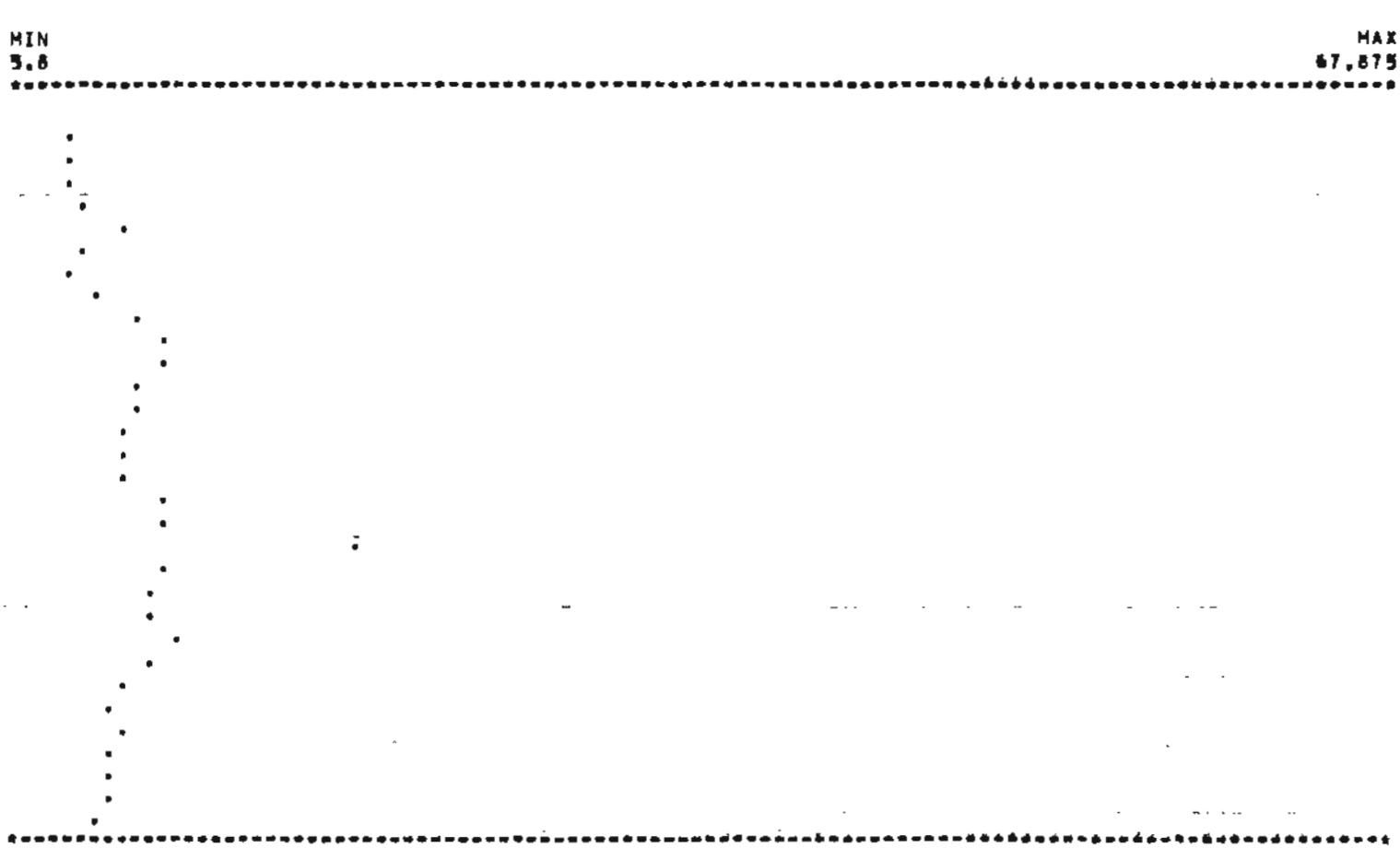
MONTH	DAY	MEAN OF FLOW
FEBRUARY	1	8.97
FEBRUARY	2	10.77
FEBRUARY	3	10.27
FEBRUARY	4	9.30
FEBRUARY	5	9.07
FEBRUARY	6	9.00
FEBRUARY	7	11.93
FEBRUARY	8	11.30
FEBRUARY	9	10.53
FEBRUARY	10	9.40
FEBRUARY	11	9.43
FEBRUARY	12	9.30
FEBRUARY	13	8.17
FEBRUARY	14	7.97
FEBRUARY	15	9.03
FEBRUARY	16	9.97
FEBRUARY	17	10.03
FEBRUARY	18	9.30
FEBRUARY	19	8.17
FEBRUARY	20	8.27
FEBRUARY	21	8.27
FEBRUARY	22	10.57
FEBRUARY	23	9.90
FEBRUARY	24	8.53
FEBRUARY	25	8.07
FEBRUARY	26	9.47
FEBRUARY	27	8.83
FEBRUARY	28	8.03
FEBRUARY	29	5.80



ONR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=MARCH

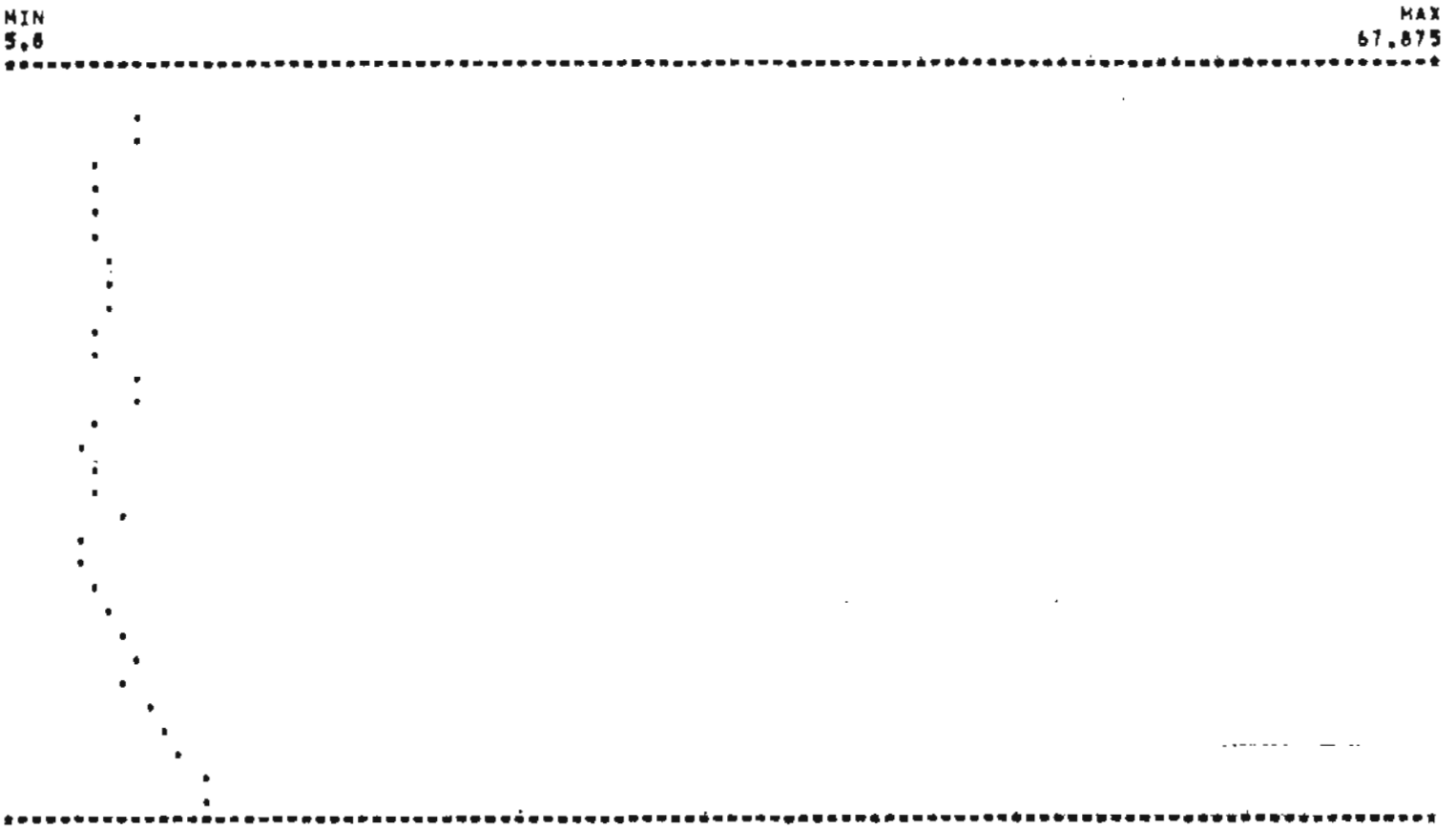
MONTH	DAY	MEAN DF FLOW
MARCH	1	7.57
MARCH	2	7.60
MARCH	3	7.73
MARCH	4	8.33
MARCH	5	10.50
MARCH	6	8.35
MARCH	7	7.80
MARCH	8	8.83
MARCH	9	10.80
MARCH	10	12.00
MARCH	11	12.00
MARCH	12	10.78
MARCH	13	10.97
MARCH	14	10.30
MARCH	15	9.90
MARCH	16	10.12
MARCH	17	12.07
MARCH	18	12.35
MARCH	19	20.92
MARCH	20	11.95
MARCH	21	11.73
MARCH	22	11.55
MARCH	23	12.55
MARCH	24	11.65
MARCH	25	10.12
MARCH	26	9.65
MARCH	27	9.92
MARCH	28	9.27
MARCH	29	9.60
MARCH	30	9.35
MARCH	31	9.05



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=APRIL

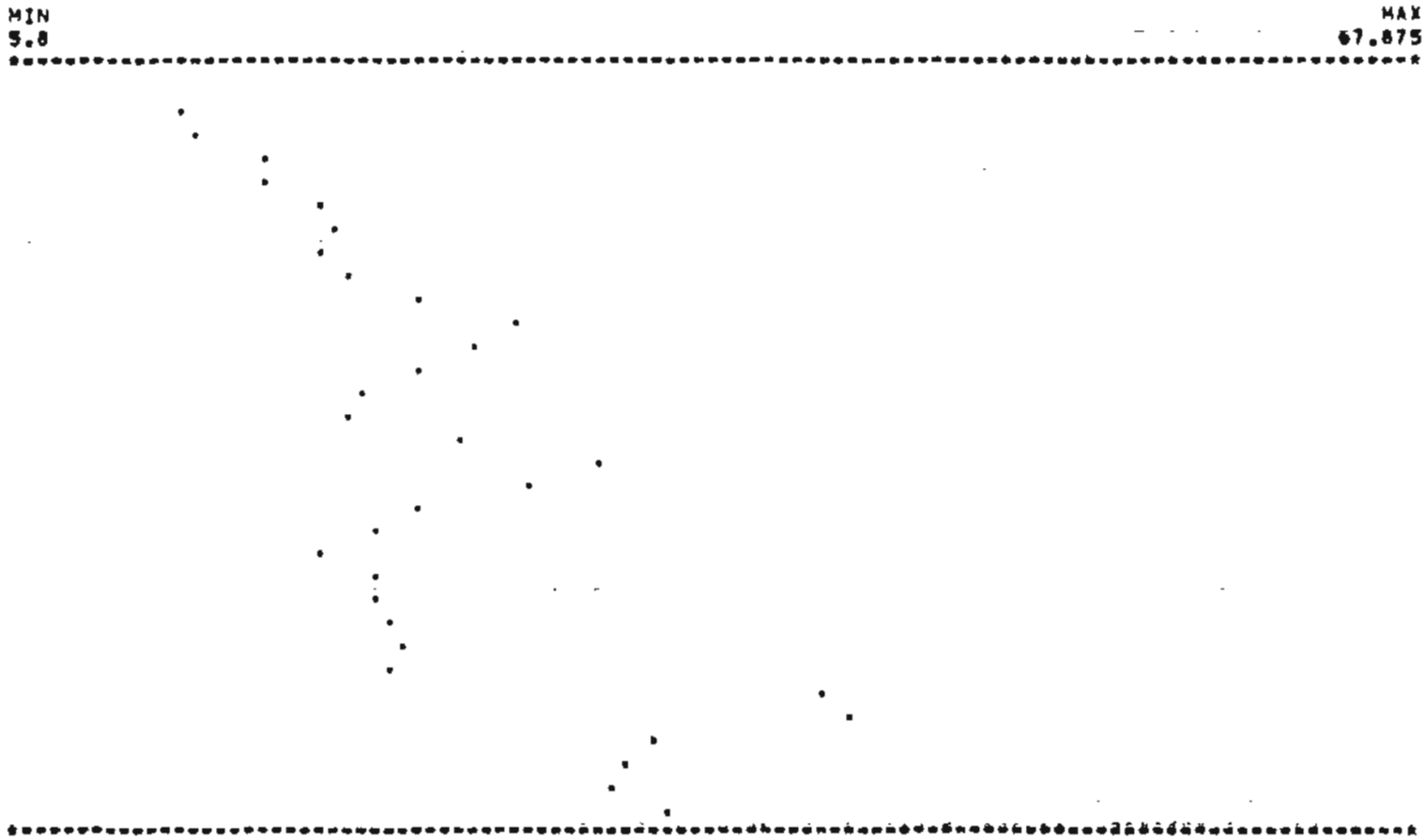
MONTH	DAY	MEAN OF FLOW
APRIL	1	10.60
APRIL	2	10.66
APRIL	3	9.05
APRIL	4	8.68
APRIL	5	8.66
APRIL	6	9.20
APRIL	7	9.63
APRIL	8	9.37
APRIL	9	9.50
APRIL	10	9.08
APRIL	11	8.63
APRIL	12	10.53
APRIL	13	11.12
APRIL	14	8.86
APRIL	15	8.52
APRIL	16	8.90
APRIL	17	9.23
APRIL	18	10.17
APRIL	19	8.32
APRIL	20	8.15
APRIL	21	8.66
APRIL	22	9.35
APRIL	23	10.13
APRIL	24	11.02
APRIL	25	10.32
APRIL	26	11.37
APRIL	27	12.28
APRIL	28	12.45
APRIL	29	13.67
APRIL	30	13.70



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

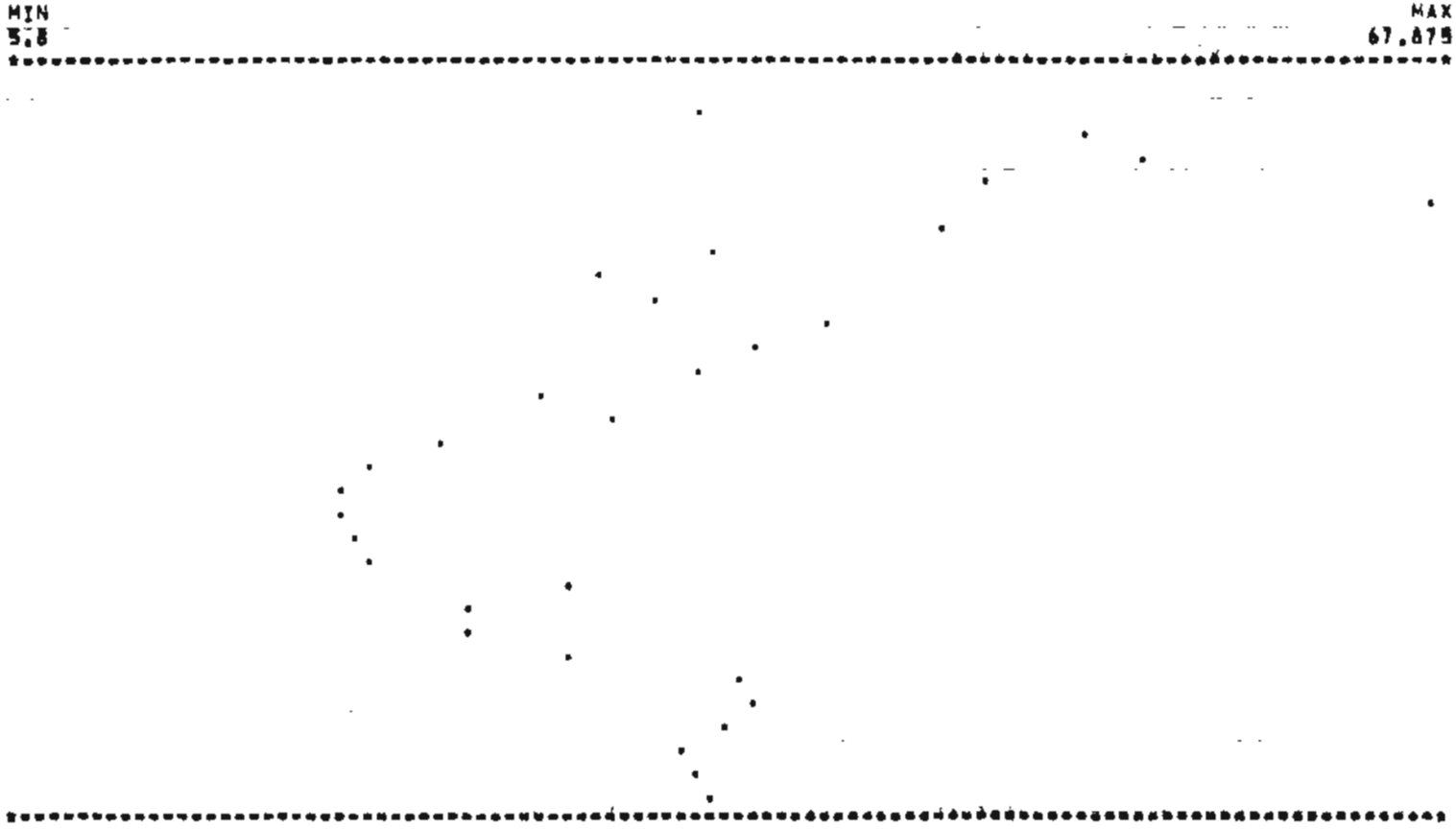
MONTH=MAY

MONTH	DAY	MEAN OF FLOW
MAY	1	12.52
MAY	2	13.30
MAY	3	16.75
MAY	4	16.75
MAY	5	19.25
MAY	6	19.50
MAY	7	18.75
MAY	8	20.50
MAY	9	23.50
MAY	10	27.50
MAY	11	26.00
MAY	12	23.50
MAY	13	20.75
MAY	14	20.50
MAY	15	25.00
MAY	16	31.25
MAY	17	28.50
MAY	18	23.25
MAY	19	21.25
MAY	20	19.00
MAY	21	21.25
MAY	22	21.50
MAY	23	22.25
MAY	24	23.00
MAY	25	22.25
MAY	26	41.50
MAY	27	42.60
MAY	28	34.00
MAY	29	32.50
MAY	30	32.35
MAY	31	34.37



MONTH=JUNE

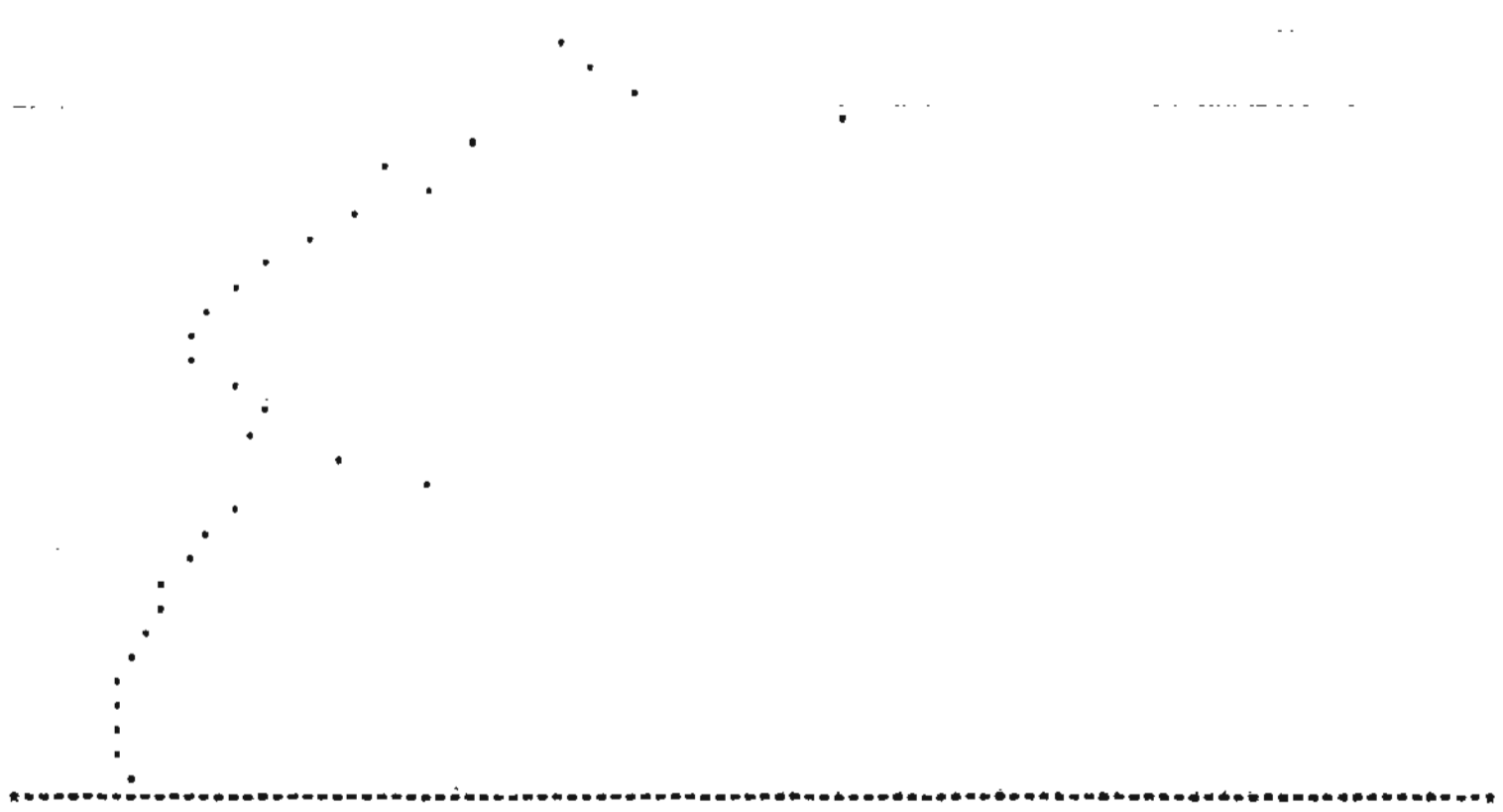
MONTH	DAY	MEAN DF FLOW
JUNE	1	35.23
JUNE	2	52.50
JUNE	3	54.73
JUNE	4	47.87
JUNE	5	67.87
JUNE	6	46.00
JUNE	7	35.85
JUNE	8	30.95
JUNE	9	33.15
JUNE	10	40.75
JUNE	11	37.62
JUNE	12	35.25
JUNE	13	28.67
JUNE	14	31.25
JUNE	15	23.75
JUNE	16	20.75
JUNE	17	19.62
JUNE	18	19.57
JUNE	19	20.27
JUNE	20	20.70
JUNE	21	29.75
JUNE	22	25.25
JUNE	23	25.50
JUNE	24	29.75
JUNE	25	37.00
JUNE	26	38.00
JUNE	27	36.25
JUNE	28	34.50
JUNE	29	35.00
JUNE	30	35.75



HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=JULY

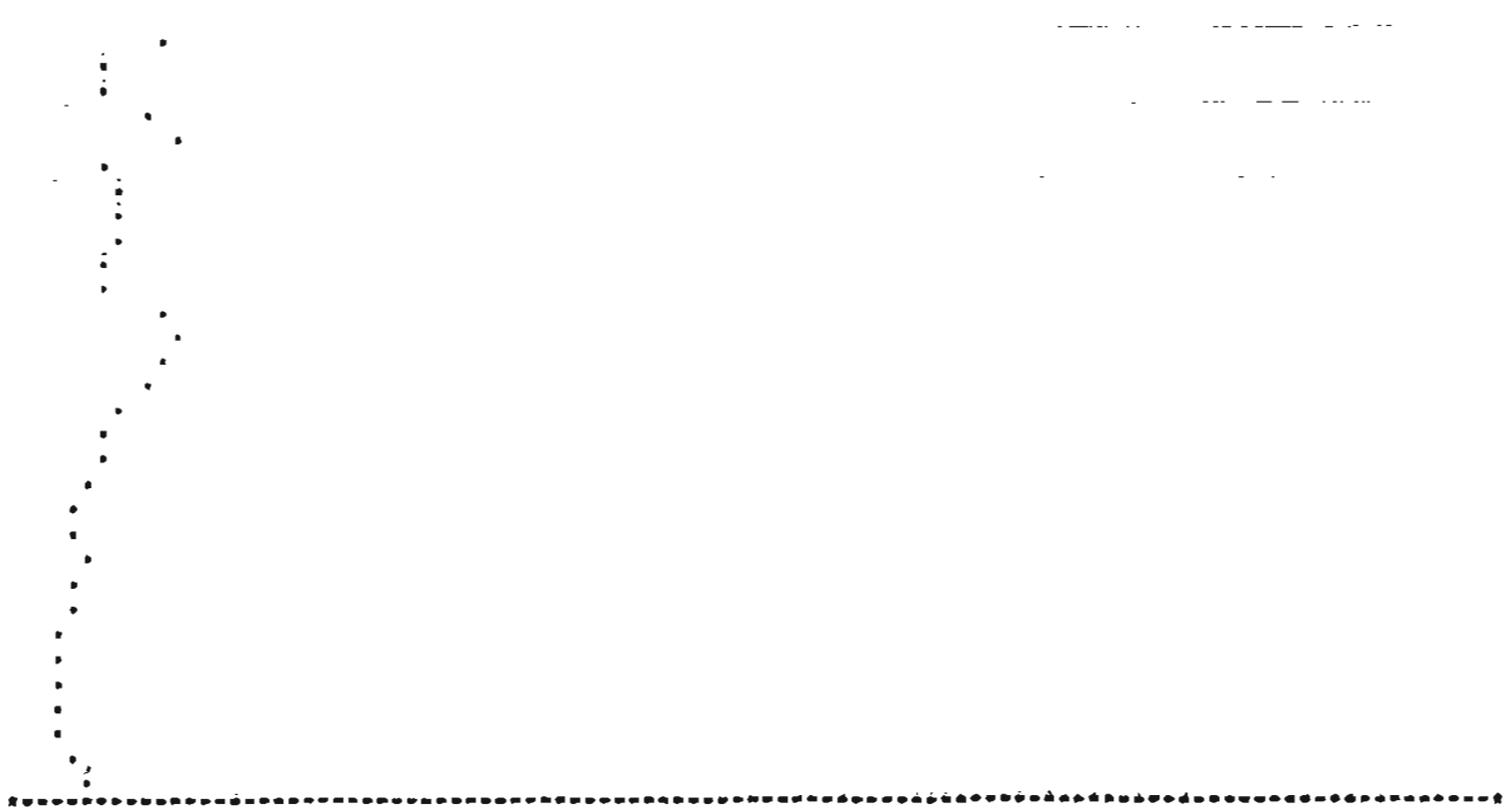
MONTH	DAY	MEAN OF FLOW
JULY	1	28.25
JULY	2	29.75
JULY	3	31.75
JULY	4	40.50
JULY	5	24.67
JULY	6	20.67
JULY	7	22.87
JULY	8	19.87
JULY	9	17.60
JULY	10	15.75
JULY	11	14.50
JULY	12	13.37
JULY	13	12.58
JULY	14	12.45
JULY	15	14.70
JULY	16	15.80
JULY	17	15.42
JULY	18	18.73
JULY	19	22.45
JULY	20	14.60
JULY	21	13.55
JULY	22	12.65
JULY	23	11.22
JULY	24	11.37
JULY	25	10.91
JULY	26	10.05
JULY	27	9.35
JULY	28	9.31
JULY	29	9.50
JULY	30	9.42
JULY	31	10.50



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=AUGUST

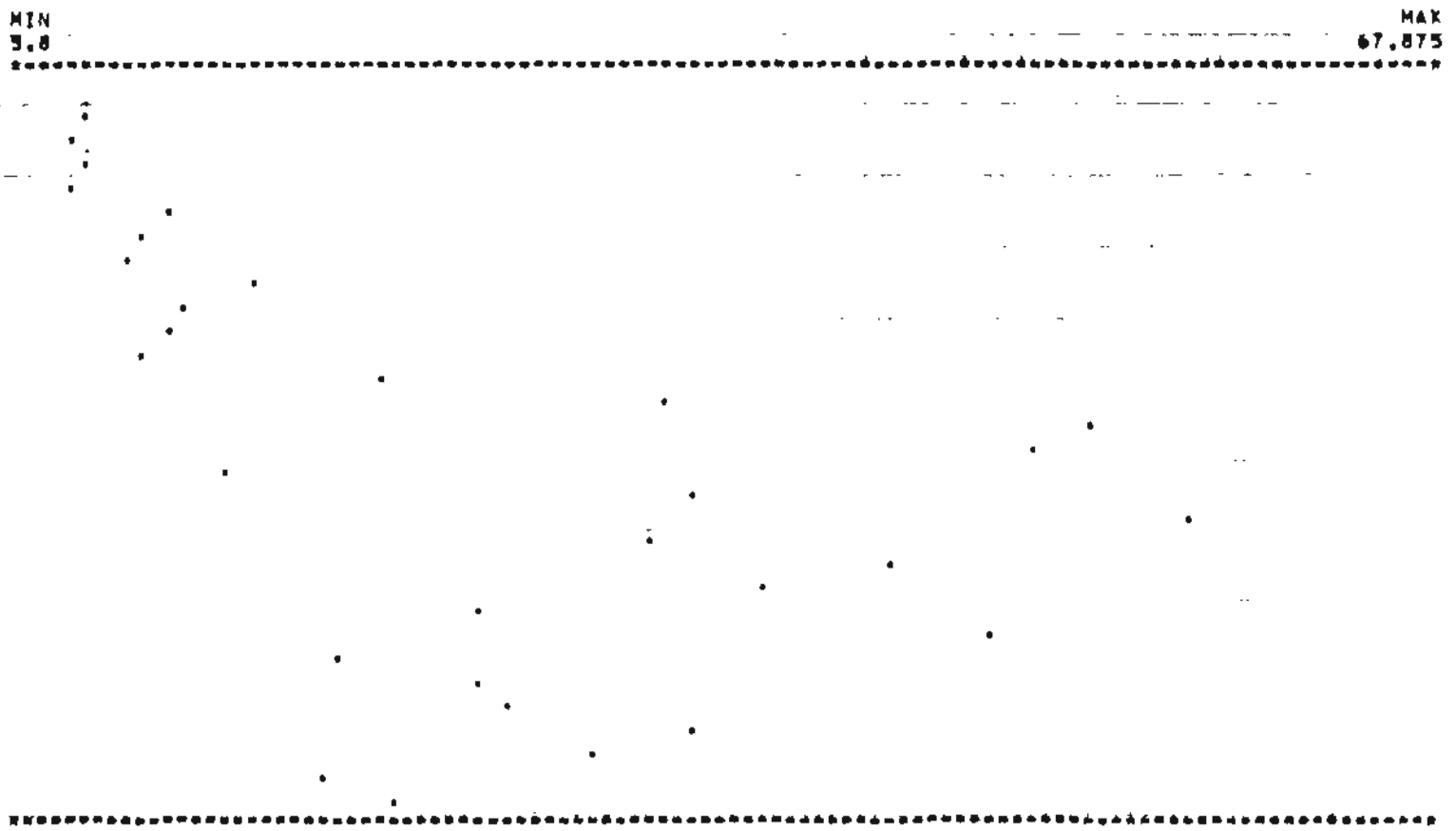
MONTH	DAY	MEAN DF FLOW
AUGUST	1	11.32
AUGUST	2	8.97
AUGUST	3	9.12
AUGUST	4	10.85
AUGUST	5	11.77
AUGUST	6	8.80
AUGUST	7	9.25
AUGUST	8	9.45
AUGUST	9	9.75
AUGUST	10	9.12
AUGUST	11	8.83
AUGUST	12	11.25
AUGUST	13	11.85
AUGUST	14	11.75
AUGUST	15	10.55
AUGUST	16	9.53
AUGUST	17	8.83
AUGUST	18	8.63
AUGUST	19	8.53
AUGUST	20	7.78
AUGUST	21	7.83
AUGUST	22	8.00
AUGUST	23	7.75
AUGUST	24	7.63
AUGUST	25	7.15
AUGUST	26	7.28
AUGUST	27	6.83
AUGUST	28	7.12
AUGUST	29	7.15
AUGUST	30	7.65
AUGUST	31	8.05



HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=SEPTEMBR

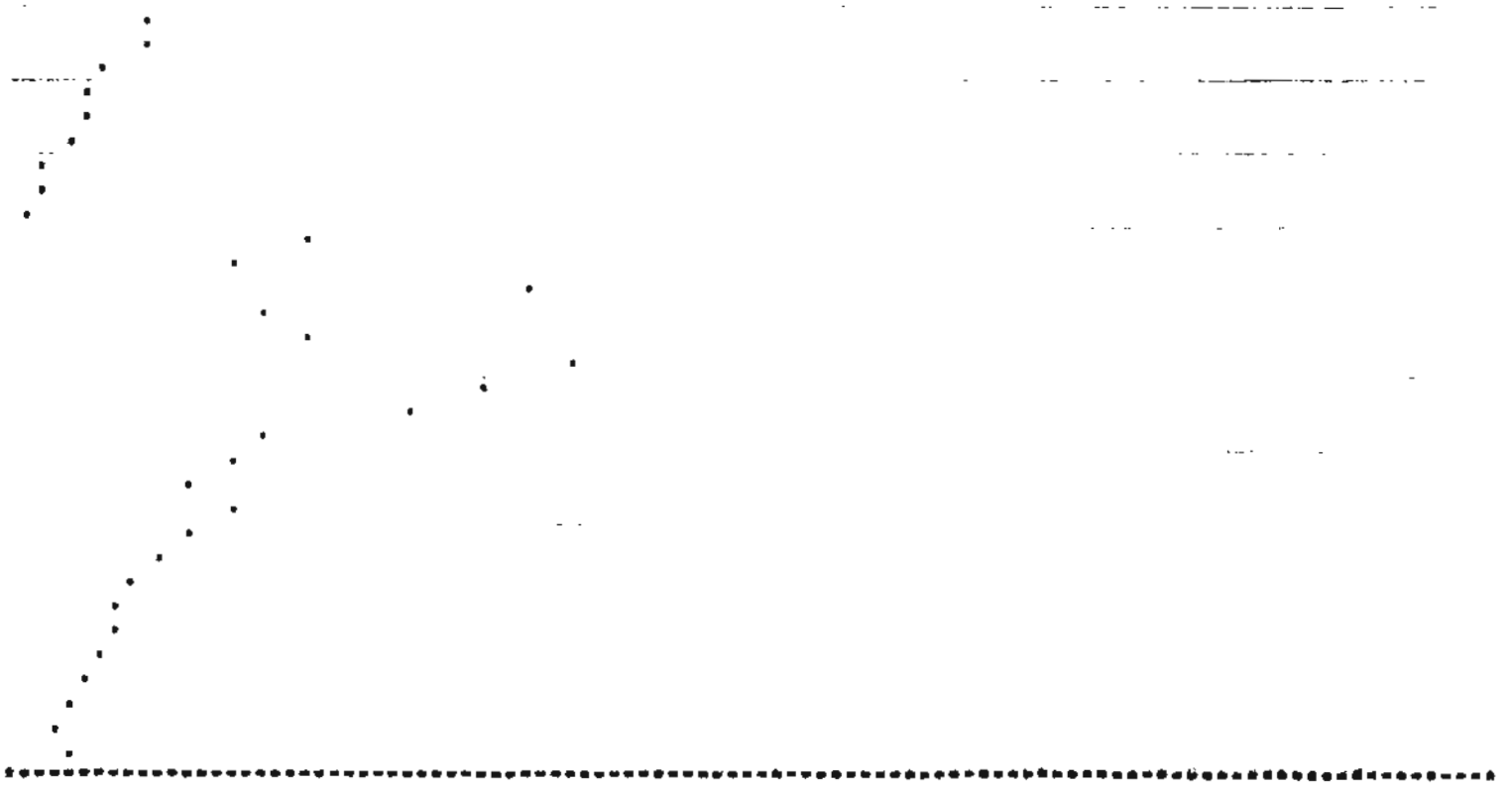
MONTH	DAY	MEAN DF FLOW
SEPTEMBR	1	8.42
SEPTEMBR	2	7.53
SEPTEMBR	3	8.37
SEPTEMBR	4	7.83
SEPTEMBR	5	12.17
SEPTEMBR	6	11.00
SEPTEMBR	7	10.30
SEPTEMBR	8	15.58
SEPTEMBR	9	12.47
SEPTEMBR	10	11.90
SEPTEMBR	11	10.65
SEPTEMBR	12	21.30
SEPTEMBR	13	34.17
SEPTEMBR	14	52.65
SEPTEMBR	15	50.10
SEPTEMBR	16	14.58
SEPTEMBR	17	35.02
SEPTEMBR	18	56.95
SEPTEMBR	19	33.50
SEPTEMBR	20	44.05
SEPTEMBR	21	38.67
SEPTEMBR	22	25.98
SEPTEMBR	23	48.12
SEPTEMBR	24	19.30
SEPTEMBR	25	25.73
SEPTEMBR	26	26.98
SEPTEMBR	27	35.92
SEPTEMBR	28	30.67
SEPTEMBR	29	16.93
SEPTEMBR	30	22.40



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=OCTOBER

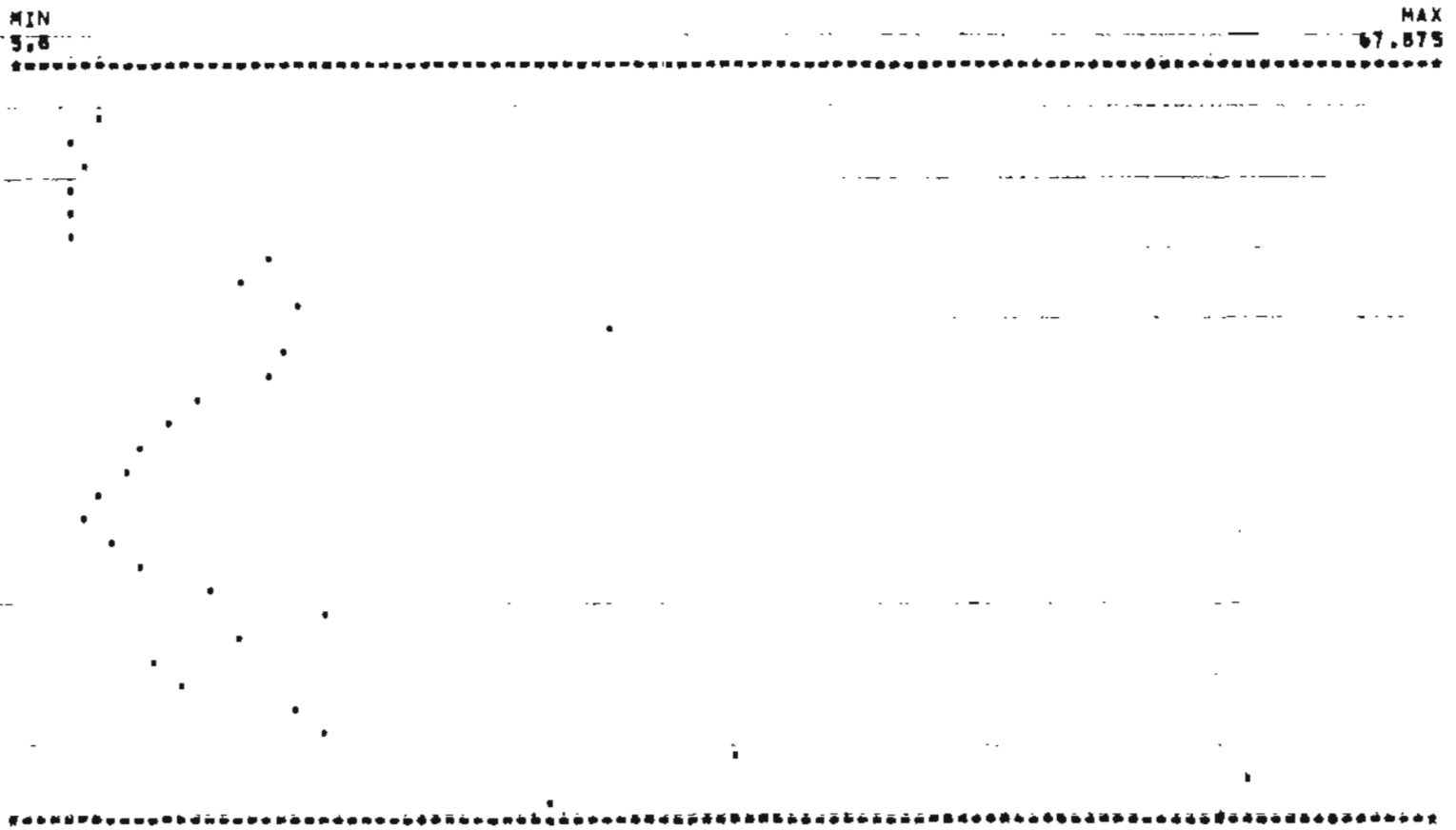
MONTH	DAY	MEAN OF FLOW
		MIN 5.8
		MAX 67.875
OCTOBER	1	11.00
OCTOBER	2	10.55
OCTOBER	3	9.05
OCTOBER	4	8.20
OCTOBER	5	8.50
OCTOBER	6	7.80
OCTOBER	7	6.70
OCTOBER	8	6.40
OCTOBER	9	5.95
OCTOBER	10	17.80
OCTOBER	11	14.50
OCTOBER	12	27.00
OCTOBER	13	16.00
OCTOBER	14	17.50
OCTOBER	15	29.00
OCTOBER	16	25.00
OCTOBER	17	22.00
OCTOBER	18	15.67
OCTOBER	19	14.33
OCTOBER	20	12.67
OCTOBER	21	14.33
OCTOBER	22	12.67
OCTOBER	23	11.33
OCTOBER	24	10.30
OCTOBER	25	9.80
OCTOBER	26	9.73
OCTOBER	27	9.07
OCTOBER	28	8.20
OCTOBER	29	7.47
OCTOBER	30	7.20
OCTOBER	31	7.67



HARSTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

MONTH=NOVEMBER

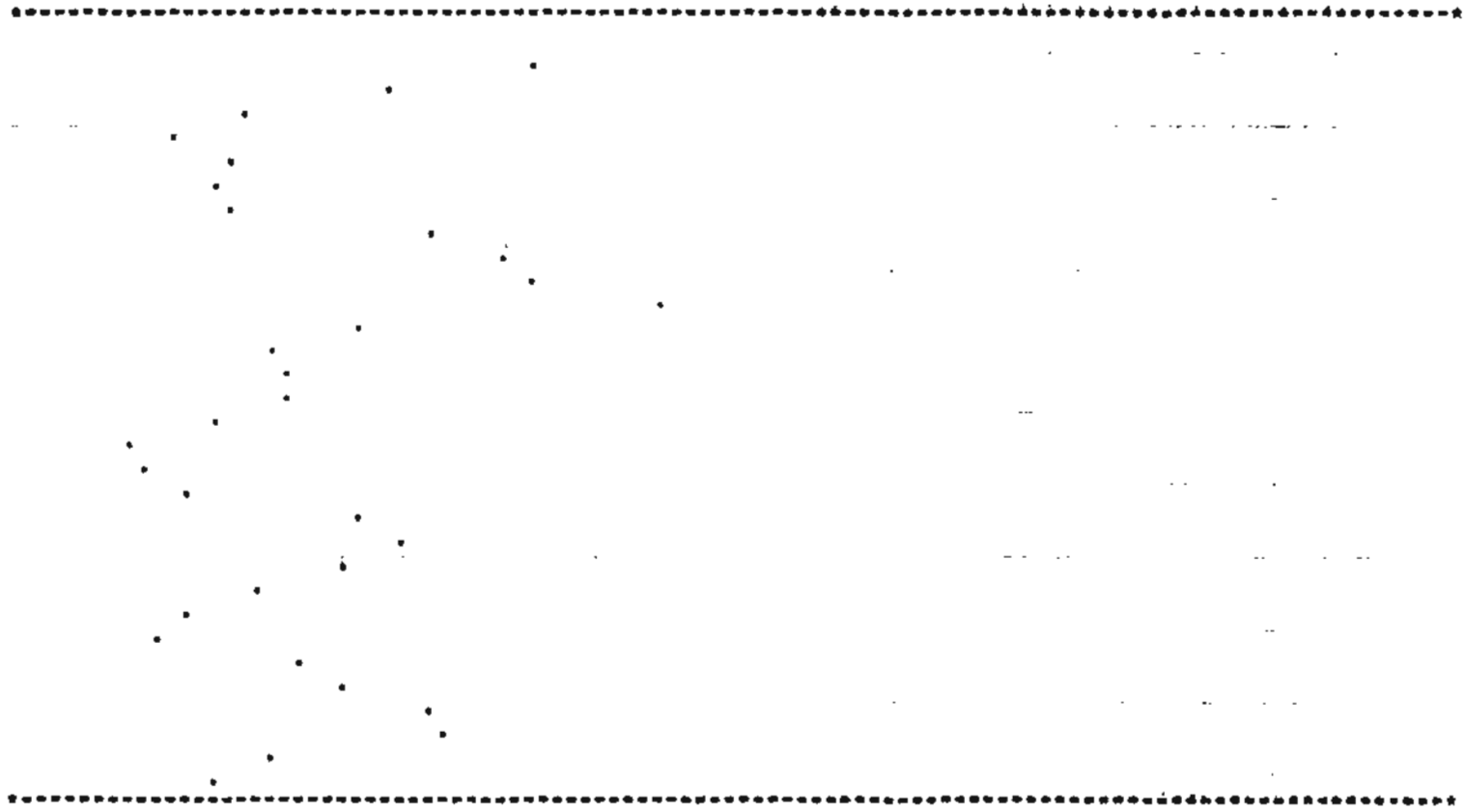
MONTH	DAY	MEAN OF FLOW
NOVEMBER	1	8.67
NOVEMBER	2	7.87
NOVEMBER	3	8.03
NOVEMBER	4	7.73
NOVEMBER	5	7.43
NOVEMBER	6	7.77
NOVEMBER	7	16.40
NOVEMBER	8	14.93
NOVEMBER	9	17.50
NOVEMBER	10	31.47
NOVEMBER	11	17.23
NOVEMBER	12	16.67
NOVEMBER	13	13.33
NOVEMBER	14	12.00
NOVEMBER	15	11.00
NOVEMBER	16	10.13
NOVEMBER	17	9.13
NOVEMBER	18	8.53
NOVEMBER	19	9.33
NOVEMBER	20	10.97
NOVEMBER	21	13.80
NOVEMBER	22	18.83
NOVEMBER	23	15.03
NOVEMBER	24	11.70
NOVEMBER	25	12.93
NOVEMBER	26	17.67
NOVEMBER	27	19.00
NOVEMBER	28	37.33
NOVEMBER	29	60.00
NOVEMBER	30	29.00



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF DAILY MEANS

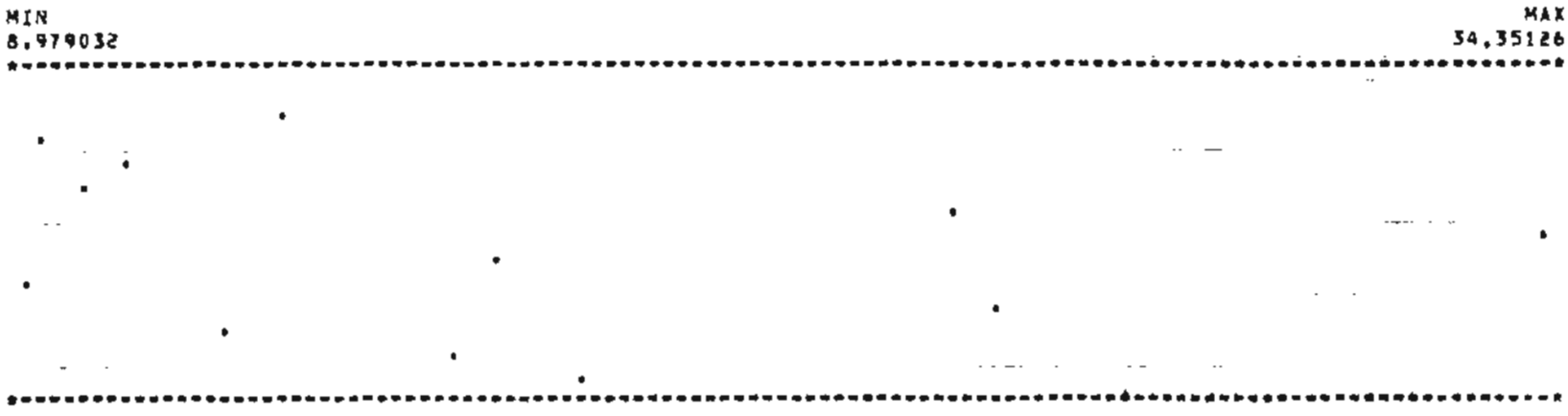
MONTH=DECEMBER

MONTH	DAY	MEAN DF FLOW
DECEMBER	1	27.67
DECEMBER	2	21.67
DECEMBER	3	15.17
DECEMBER	4	12.33
DECEMBER	5	14.47
DECEMBER	6	13.73
DECEMBER	7	14.80
DECEMBER	8	23.33
DECEMBER	9	26.30
DECEMBER	10	27.67
DECEMBER	11	33.67
DECEMBER	12	20.00
DECEMBER	13	16.67
DECEMBER	14	17.00
DECEMBER	15	16.97
DECEMBER	16	13.70
DECEMBER	17	10.37
DECEMBER	18	11.03
DECEMBER	19	12.50
DECEMBER	20	20.00
DECEMBER	21	22.33
DECEMBER	22	19.67
DECEMBER	23	15.67
DECEMBER	24	12.87
DECEMBER	25	11.13
DECEMBER	26	18.00
DECEMBER	27	19.33
DECEMBER	28	23.67
DECEMBER	29	24.00
DECEMBER	30	16.50
DECEMBER	31	13.93



HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF MONTHLY MEANS

MONTH	MEAN DF FLOW
JANUARY	13.23
FEBRUARY	9.31
MARCH	10.58
APRIL	10.02
MAY	24.35
JUNE	34.35
JULY	16.88
AUGUST	8.98
SEPTEMBR	25.10
OCTOBER	12.33
NOVEMBER	16.05
DECEMBER	18.26



HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
TIMEPLOT OF QUARTERLY MEANS

QUARTER	MEAN OF FLOW	MIN 11.04916 — MAX 22.89264
FIRST_QUARTER	11.05	
SECOND_QUARTER	22.89	
THIRD_QUARTER	16.85	
FOURTH_QUARTER	15.75	

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY DISCHARGE DURATION TABLE

MON	0 5 CFS	5 10 CFS	10 14 CFS	14 18 CFS	18 22 CFS	22 26 CFS	26 30 CFS	30 34 CFS	34 38 CFS	38 42 CFS	42 46 CFS	46 50 CFS	50 54 CFS	54 58 CFS	58 62 CFS	62 66 CFS	66 70 CFS	70 80 CFS	80 90 CFS	90 100 CFS	100 120 CFS	120 140 CFS	140 160 CFS	160 200 CFS	GT. 200 CFS	NUM OBS
JANUARY	6	66	9	14	9	4	4	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
FEBRUARY	21	33	1	23	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
MARCH	11	58	8	22	17	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	119
APRIL	10	66	11	20	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
MAY	0	6	12	16	37	19	11	3	6	2	3	2	1	1	2	0	1	0	0	0	2	0	0	0	0	124
JUNE	0	13	6	22	9	7	7	2	10	8	6	4	5	4	4	2	2	2	1	0	3	1	0	1	0	119
JULY	35	21	18	8	5	5	5	7	7	3	4	1	1	2	0	0	0	1	0	1	0	0	0	0	0	124
AUGUST	62	28	4	8	9	8	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
SEPTEMBR	32	16	9	8	12	14	4	7	0	1	1	1	0	2	0	1	0	0	0	1	3	2	1	3	0	118
OCTOBER	4	27	24	11	5	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
NOVEMBER	0	43	13	14	6	4	2	1	3	0	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	90
DECEMBER	4	11	18	20	13	9	7	4	1	1	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	93
TOTAL	183	368	133	186	140	78	44	28	30	19	16	10	10	10	6	3	3	3	2	2	8	3	2	4	0	1285
PERCENT	14	28	10	14	11	6	3	2	2	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0
CUMULATE	96	82	54	44	30	19	13	10	8	6	5	4	3	2	1	1	1	1	1	1	1	0	0	0	0	100

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY DISCHARGE DURATION TABLE

MON	0 8 CFS	8 10 CFS	10 12 CFS	12 14 CFS	14 17 CFS	17 20 CFS	20 25 CFS	25 30 CFS	30 35 CFS	35 40 CFS	40 45 CFS	45 50 CFS	50 60 CFS	60 70 CFS	70 80 CFS	80 100 CFS	100 120 CFS	120 140 CFS	140 170 CFS	170 200 CFS	200 250 CFS	GT. 250 CFS	NUM OBS
JANUARY	32	16	2	7	8	12	7	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	93
FEBRUARY	49	5	0	1	18	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
MARCH	60	9	7	1	22	8	11	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	119
APRIL	60	16	8	3	6	19	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
MAY	0	6	6	6	11	24	36	12	6	5	3	2	3	2	0	0	2	0	0	0	0	0	124
JUNE	5	8	4	2	17	10	8	10	3	14	7	6	11	6	2	1	3	1	0	1	0	0	119
JULY	47	9	6	12	7	3	6	7	8	7	5	2	3	0	1	1	0	0	0	0	0	0	124
AUGUST	85	5	2	2	7	3	15	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	124
SEPTEMBR	43	5	2	7	7	9	12	10	7	1	1	1	2	1	0	1	3	2	3	1	0	0	118
OCTOBER	20	11	9	15	9	0	3	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	76
NOVEMBER	14	29	7	6	13	6	4	3	3	1	0	0	2	0	0	1	0	0	1	0	0	0	90
DECEMBER	9	6	5	13	16	13	13	7	5	0	1	4	1	0	0	0	0	0	0	0	0	0	93
TOTAL	424	125	58	75	141	121	125	57	37	31	20	15	23	9	3	4	8	3	4	2	0	0	1285
PERCENT	33	10	5	6	11	9	10	4	3	2	2	1	2	1	0	0	1	0	0	0	0	0	0
CUMULATE	100	67	57	52	46	35	26	16	12	9	7	5	4	2	1	1	1	0	0	0	0	0	100

HARBTDT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY DISCHARGE DURATION TABLE

YEAR=82

MONTH	0 5 CFS	5 10 CFS	10 14 CFS	14 18 CFS	18 22 CFS	22 26 CFS	26 30 CFS	30 34 CFS	34 38 CFS	38 42 CFS	42 46 CFS	46 50 CFS	50 54 CFS	54 58 CFS	58 62 CFS	62 66 CFS	66 70 CFS	70 80 CFS	80 90 CFS	90 100 CFS	100 120 CFS	120 140 CFS	140 160 CFS	160 200 CFS	GT. 200 CFS	NUM OBS
JANUARY	3	25	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FEBRUARY	21	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
MARCH	9	13	3	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	31
APRIL	0	23	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	0	4	3	9	5	4	0	0	0	0	0	0	1	2	0	1	0	0	0	2	0	0	0	0	31
JUNE	0	0	1	3	1	4	1	0	1	1	2	1	2	2	4	1	2	1	1	0	1	0	0	1	0	30
JULY	12	4	5	1	1	1	0	2	1	1	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	31
AUGUST	12	16	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	0	4	0	0	4	8	2	2	0	1	0	0	0	0	0	1	0	0	0	1	2	1	1	3	0	30
OCTOBER	0	12	9	6	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
NOVEMBER	0	16	4	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
DECEMBER	0	0	7	9	5	3	3	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	31
TOTAL	57	120	44	32	26	23	11	7	2	4	2	3	4	4	6	2	3	1	1	2	5	1	1	4	0	365
PERCENT	16	33	12	9	7	6	3	2	1	1	1	1	1	1	2	1	1	0	0	1	1	0	0	1	0	0
CUMULATE	101	85	52	40	31	24	18	15	13	12	11	10	9	8	7	5	4	3	3	3	2	1	1	1	0	100

YEAR=83

MONTH	0 5 CFS	5 10 CFS	10 14 CFS	14 18 CFS	18 22 CFS	22 26 CFS	26 30 CFS	30 34 CFS	34 38 CFS	38 42 CFS	42 46 CFS	46 50 CFS	50 54 CFS	54 58 CFS	58 62 CFS	62 66 CFS	66 70 CFS	70 80 CFS	80 90 CFS	90 100 CFS	100 120 CFS	120 140 CFS	140 160 CFS	160 200 CFS	GT. 200 CFS	NUM OBS
JANUARY	0	0	4	12	4	2	4	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FEBRUARY	0	0	0	21	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
MARCH	0	0	0	12	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
APRIL	0	0	0	17	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	0	0	5	14	4	4	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	31
JUNE	0	0	0	12	7	2	5	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
JULY	0	13	12	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
AUGUST	20	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	25	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
OCTOBER	4	11	5	5	2	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
NOVEMBER	0	9	4	6	2	2	1	0	3	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	30
DECEMBER	0	5	7	5	4	4	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
TOTAL	49	54	32	99	70	18	19	6	6	6	2	1	1	0	0	0	0	0	1	0	0	0	1	0	0	365
PERCENT	13	15	9	27	19	5	5	2	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUMULATE	100	87	72	63	36	17	12	7	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY DISCHARGE DURATION TABLE

YEAR=84

MONTH	0 5 CFS	5 10 CFS	10 14 CFS	14 18 CFS	18 22 CFS	22 26 CFS	26 30 CFS	30 34 CFS	34 38 CFS	38 42 CFS	42 46 CFS	46 50 CFS	50 54 CFS	54 58 CFS	58 62 CFS	62 66 CFS	66 70 CFS	70 80 CFS	80 90 CFS	90 100 CFS	100 120 CFS	120 140 CFS	140 160 CFS	160 200 CFS	GT. 200 CFS	NUM OBS
JANUARY	1	19	4	1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FEBRUARY	0	26	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
MARCH	0	23	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
APRIL	5	22	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	5	7	1	7	7	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	31
JUNE	0	13	5	7	1	1	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	30
JULY	23	6	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
AUGUST	30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	7	7	3	1	2	3	1	3	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	30
OCTOBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOVEMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECEMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	66	120	26	21	14	13	3	3	1	0	1	2	1	1	0	1	0	0	0	0	0	1	0	0	0	274
PERCENT	24	44	9	8	5	5	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUMULATE	98	74	30	21	13	8	3	2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	100

YEAR=85

MONTH	0 5 CFS	5 10 CFS	10 14 CFS	14 18 CFS	18 22 CFS	22 26 CFS	26 30 CFS	30 34 CFS	34 38 CFS	38 42 CFS	42 46 CFS	46 50 CFS	50 54 CFS	54 58 CFS	58 62 CFS	62 66 CFS	66 70 CFS	70 80 CFS	80 90 CFS	90 100 CFS	100 120 CFS	120 140 CFS	140 160 CFS	160 200 CFS	GT. 200 CFS	NUM OBS
JANUARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEBRUARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARCH	2	22	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
APRIL	5	21	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	1	1	7	7	3	2	3	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
JUNE	0	0	0	0	0	0	0	0	9	5	4	3	3	1	0	0	0	1	0	0	2	1	0	0	0	29
JULY	0	0	0	0	2	4	5	5	6	2	4	1	0	1	0	0	0	1	0	0	0	0	0	0	0	31
AUGUST	0	0	1	8	9	8	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	0	0	6	7	6	3	1	2	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	28
OCTOBER	0	4	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
NOVEMBER	0	18	5	4	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	30
DECEMBER	4	6	4	6	4	2	2	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31
TOTAL	11	72	31	34	30	20	11	12	21	9	11	4	4	5	0	0	0	2	0	0	3	1	0	0	0	281
PERCENT	4	26	11	12	11	7	4	4	7	3	4	1	1	2	0	0	0	1	0	0	1	0	0	0	0	0
CUMULATE	99	95	69	58	46	35	28	24	20	13	10	6	5	4	2	2	2	2	1	1	1	0	0	0	0	100

MARBTOT DATA REPORT

MIDWAY CREEK NEAR OLD HARBOR

DAILY DISCHARGE DURATION TABLE

YEAR=82

MON	0 8 CFS	8 10 CFS	10 12 CFS	12 14 CFS	14 17 CFS	17 20 CFS	20 25 CFS	25 30 CFS	30 35 CFS	35 40 CFS	40 45 CFS	45 50 CFS	50 60 CFS	60 70 CFS	70 80 CFS	80 100 CFS	100 120 CFS	120 140 CFS	140 170 CFS	170 200 CFS	200 250 CFS	GT. 250 CFS	NUM OBS
JANUARY	20	8	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FEBRUARY	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
MARCH	22	0	3	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	31
APRIL	14	9	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	0	0	0	1	6	10	4	0	0	0	0	2	2	0	0	2	0	0	0	0	0	31
JUNE	0	0	0	1	2	2	1	4	0	2	1	2	6	5	1	1	1	0	0	1	0	0	30
JULY	15	1	4	1	1	0	2	0	2	1	1	0	2	0	0	1	0	0	0	0	0	0	31
AUGUST	24	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	1	3	0	0	0	2	6	6	2	1	0	0	0	1	0	1	2	1	3	1	0	0	30
OCTOBER	8	4	4	5	5	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31
NOVEMBER	9	7	2	2	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	30
DECEMBER	0	0	2	5	7	7	3	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	31
TOTAL	137	40	27	17	24	23	27	18	7	4	3	4	11	8	1	3	5	1	3	2	0	0	365
PERCENT	38	11	7	5	7	6	7	5	2	1	1	1	3	2	0	1	1	0	1	1	0	0	0
CUMULATE	100	62	51	44	39	32	26	19	14	12	11	10	9	6	4	4	3	2	2	1	0	0	100

YEAR=83

MON	0 8 CFS	8 10 CFS	10 12 CFS	12 14 CFS	14 17 CFS	17 20 CFS	20 25 CFS	25 30 CFS	30 35 CFS	35 40 CFS	40 45 CFS	45 50 CFS	50 60 CFS	60 70 CFS	70 80 CFS	80 100 CFS	100 120 CFS	120 140 CFS	140 170 CFS	170 200 CFS	200 250 CFS	GT. 250 CFS	NUM OBS
JANUARY	0	0	0	4	7	7	4	4	2	2	1	0	0	0	0	0	0	0	0	0	0	0	31
FEBRUARY	0	0	0	0	16	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
MARCH	0	0	0	0	12	8	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
APRIL	0	0	0	0	3	19	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	0	0	0	2	12	8	5	1	1	1	1	0	0	0	0	0	0	0	0	0	0	31
JUNE	0	0	0	0	8	8	5	5	2	2	0	0	0	0	0	0	0	0	0	0	0	0	30
JULY	6	7	2	10	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
AUGUST	30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
OCTOBER	12	3	2	3	4	3	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	31
NOVEMBER	3	6	1	3	6	2	1	2	2	1	0	0	1	0	0	1	0	0	1	0	0	0	30
DECEMBER	2	3	3	4	4	3	6	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	31
TOTAL	83	20	8	24	65	75	45	21	10	6	3	2	1	0	0	1	0	0	1	0	0	0	365
PERCENT	23	5	2	7	18	21	12	6	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0
CUMULATE	101	78	73	71	64	46	25	13	7	4	2	1	0	0	0	0	0	0	0	0	0	0	100

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY DISCHARGE DURATION TABLE

YEAR=84

MON	0 8 CFS	8 10 CFS	10 12 CFS	12 14 CFS	14 17 CFS	17 20 CFS	20 25 CFS	25 30 CFS	30 35 CFS	35 40 CFS	40 45 CFS	45 50 CFS	50 60 CFS	60 70 CFS	70 80 CFS	80 100 CFS	100 120 CFS	120 140 CFS	140 170 CFS	170 200 CFS	200 250 CFS	GT. 250 CFS	NUM OBS
JANUARY	12	8	2	2	1	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FEBRUARY	25	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
MARCH	16	7	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
APRIL	26	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	5	2	5	1	2	12	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	31
JUNE	5	8	4	1	7	0	2	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	30
JULY	26	1	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
AUGUST	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	12	2	2	1	1	2	2	2	3	0	1	1	0	0	0	0	0	1	0	0	0	0	30
OCTOBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOVEMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECEMBER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	183	33	14	12	21	7	19	4	4	0	1	2	2	1	0	0	0	1	0	0	0	0	274
PERCENT	56	12	5	4	8	3	7	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
CUMULATE	99	43	31	26	22	14	11	4	3	2	2	2	1	0	0	0	0	0	0	0	0	0	100

YEAR=85

MON	0 8 CFS	8 10 CFS	10 12 CFS	12 14 CFS	14 17 CFS	17 20 CFS	20 25 CFS	25 30 CFS	30 35 CFS	35 40 CFS	40 45 CFS	45 50 CFS	50 60 CFS	60 70 CFS	70 80 CFS	80 100 CFS	100 120 CFS	120 140 CFS	140 170 CFS	170 200 CFS	200 250 CFS	GT. 250 CFS	NUM OBS
JANUARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEBRUARY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARCH	22	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
APRIL	20	6	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
MAY	0	1	0	1	7	4	6	2	4	4	2	0	0	0	0	0	0	0	0	0	0	0	31
JUNE	0	0	0	0	0	0	0	1	10	6	4	4	0	1	0	2	1	0	0	0	0	0	29
JULY	0	0	0	0	0	0	4	7	6	6	4	2	1	0	1	0	0	0	0	0	0	0	31
AUGUST	0	0	0	1	7	3	15	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	31
SEPTEMBR	0	0	0	6	6	5	4	2	2	0	0	0	2	0	0	0	1	0	0	0	0	0	28
OCTOBER	0	4	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
NOVEMBER	2	16	4	1	4	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	30
DECEMBER	7	3	0	4	5	3	6	2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	31
TOTAL	51	32	9	22	31	16	34	14	16	21	13	7	4	0	2	0	3	1	0	0	0	0	281
PERCENT	18	11	3	8	11	6	12	5	6	7	5	2	3	0	1	0	1	0	0	0	0	0	0
CUMULATE	99	81	70	67	59	48	42	30	25	19	12	7	5	2	2	1	1	0	0	0	0	0	100

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JANUARY

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	16.1	7.2	26.0	309	138	499	7804
2	16.4	7.2	29.0	315	138	557	7556
3	15.3	8.9	26.0	294	171	499	7051
4	13.9	9.3	23.0	267	179	442	6406
5	13.0	8.7	21.0	250	167	403	5991
6	14.3	9.0	17.0	275	173	326	6606
7	17.9	4.8	30.0	344	92	576	8263
8	18.7	5.0	39.0	358	96	749	8603
9	19.0	6.6	41.0	364	127	787	8741
10	16.3	5.6	36.0	312	108	691	7497
11	14.7	6.2	30.0	282	119	576	6759
12	18.4	8.1	26.0	353	156	499	8464
13	16.0	7.0	23.0	307	134	442	7374
14	12.1	7.4	16.0	233	142	307	5592
15	11.7	9.0	15.0	224	173	288	5377
16	9.9	6.8	13.0	189	131	250	4547
17	9.6	6.5	13.0	184	125	250	4409
18	9.3	6.4	13.0	179	123	250	4301
19	9.1	6.2	13.0	175	119	250	4209
20	11.0	7.8	17.0	211	150	326	5064
21	11.5	7.6	18.0	221	146	346	5315
22	11.5	7.6	17.0	220	146	326	5285
23	13.4	7.2	18.0	257	138	346	6176
24	13.9	5.8	22.0	268	111	422	6421
25	14.9	5.8	22.0	287	111	422	6882
26	14.8	6.9	20.0	285	125	384	6836
27	11.0	6.4	19.0	211	123	365	5054
28	9.5	5.6	16.0	182	108	307	4378
29	9.2	4.2	16.0	177	81	307	4255
30	8.5	3.7	15.0	164	71	288	3933
31	9.4	4.6	17.0	180	88	326	4317
MO							189060

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,U=FLOW & P=QHE/11.8

MONTH=FEBRUARY

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	9.0	4.5	16.0	172	86	307	4132
2	10.8	6.4	17.0	207	123	326	4962
3	10.3	6.4	16.0	197	123	307	4731
4	9.3	6.4	15.0	179	123	288	4286
5	9.1	4.8	15.0	174	92	288	4178
6	9.0	4.8	15.0	173	92	288	4148
7	11.9	4.8	16.0	229	92	307	5500
8	11.3	4.9	15.0	217	94	288	5208
9	10.5	4.6	14.0	202	88	269	4854
10	9.4	4.4	17.0	181	84	326	4332
11	9.4	4.0	18.0	181	77	346	4347
12	9.3	2.9	19.0	179	56	365	4286
13	8.2	4.8	14.0	157	92	269	3769
14	8.0	4.2	14.0	153	81	269	3672
15	9.0	5.7	14.0	173	109	269	4163
16	10.0	5.7	15.0	191	109	288	4593
17	10.0	5.7	16.0	193	109	307	4624
18	9.3	5.7	16.0	179	109	307	4286
19	8.2	4.0	15.0	157	77	288	3769
20	8.3	3.0	16.0	159	58	307	3810
21	8.3	2.0	17.0	159	38	326	3810
22	10.6	2.0	24.0	203	38	461	4870
23	9.9	2.0	22.0	190	38	422	4563
24	8.5	2.0	18.0	164	38	346	3933
25	8.1	1.0	17.0	155	19	326	3718
26	9.5	1.0	19.0	182	19	365	4363
27	8.8	1.0	19.0	170	19	365	4071
28	8.0	1.0	17.0	154	19	326	3702
29	5.8	5.8	5.8	111	111	111	2673
MO							123301

ONR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,D=FLOW & P=QHE/11.8

MONTH=MARCH

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	7.6	1.0	16.0	145	19	307	3487
2	7.6	1.0	16.0	146	19	307	3503
3	7.7	1.0	16.0	148	19	307	3564
4	8.3	1.5	15.0	160	29	288	3841
5	10.5	1.5	15.0	202	29	288	4839
6	8.3	1.5	15.0	160	29	288	3848
7	7.8	2.0	15.0	150	38	288	3595
8	8.8	2.0	15.0	169	38	288	4067
9	10.8	4.0	16.0	207	77	307	4977
10	12.0	5.0	15.0	230	96	288	5530
11	12.0	10.0	15.0	230	192	288	5530
12	10.8	7.5	16.0	207	144	307	4966
13	11.0	7.0	20.0	211	134	384	5058
14	10.3	7.0	19.0	198	134	365	4747
15	9.9	6.4	18.0	190	123	346	4563
16	10.1	6.2	18.0	194	119	346	4656
17	12.1	5.9	18.0	232	113	346	5565
18	12.3	5.9	20.0	237	113	384	5692
19	20.9	5.9	50.0	402	113	960	9643
20	12.9	5.4	20.0	229	104	384	5507
21	11.7	5.6	24.0	225	108	461	5404
22	11.6	7.0	28.0	222	134	461	5323
23	12.6	6.8	21.0	241	131	403	5784
24	11.6	5.9	19.0	224	113	365	5369
25	10.1	5.9	18.0	194	113	346	4666
26	9.6	5.9	19.0	185	113	365	4447
27	9.9	5.9	21.0	191	113	403	4574
28	9.3	5.0	20.0	178	96	384	4274
29	9.6	5.0	21.0	184	96	403	4424
30	9.3	5.0	20.0	180	96	384	4309
31	9.1	5.1	19.0	174	98	365	4171
MO							149933

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=APRIL

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	10.6	5.1	18.0	204	98	346	4885
2	10.9	6.1	18.0	209	117	346	5012
3	9.0	5.1	18.0	174	98	346	4171
4	8.7	5.1	18.0	167	98	346	3998
5	8.9	5.9	17.0	170	113	326	4090
6	9.2	5.7	17.0	177	109	326	4240
7	9.8	5.6	17.0	189	108	326	4528
8	9.4	4.8	16.0	180	92	307	4321
9	9.5	4.8	16.0	182	92	307	4378
10	9.1	4.8	16.0	174	92	307	4182
11	8.8	4.6	17.0	169	88	326	4067
12	10.5	5.5	17.0	202	106	326	4851
13	11.1	5.5	17.0	214	106	326	5127
14	8.9	5.4	17.0	170	104	326	4090
15	8.5	5.4	17.0	164	104	326	3929
16	8.9	5.7	17.0	171	109	326	4102
17	9.2	5.6	17.0	177	108	326	4251
18	10.2	5.0	17.0	195	96	326	4689
19	8.3	5.2	17.0	160	100	326	3837
20	8.1	4.7	17.0	157	90	326	3756
21	8.7	4.6	17.0	167	88	326	3998
22	9.4	4.5	18.0	180	88	346	4309
23	10.1	4.3	20.0	194	83	384	4666
24	11.0	4.2	21.0	212	81	403	5081
25	10.3	4.2	20.0	198	81	384	4758
26	11.4	7.6	20.0	218	146	384	5242
27	12.3	8.3	20.0	236	159	384	5657
28	12.5	9.1	20.0	239	175	384	5738
29	13.7	9.2	21.0	263	177	403	6302
30	13.7	8.1	21.0	263	156	403	6314
MO							138369

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MAY

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	12.5	9.2	21.0	241	177	403	5772
2	13.3	9.2	21.0	255	177	403	6129
3	16.8	11.0	22.0	322	211	422	7719
4	16.8	11.0	21.0	322	211	403	7719
5	19.3	19.0	20.0	370	365	384	8872
6	19.5	18.0	20.0	374	346	384	8987
7	18.8	18.0	19.0	360	346	365	8641
8	20.5	19.0	23.0	394	365	442	9448
9	23.5	18.0	29.0	451	346	557	10830
10	27.5	16.0	47.0	528	307	903	12674
11	26.0	15.0	44.0	499	288	845	11982
12	23.5	15.0	34.0	451	288	653	10830
13	20.8	15.0	26.0	398	288	499	9563
14	20.5	15.0	28.0	394	288	538	9448
15	25.0	16.0	34.0	480	307	653	11522
16	31.3	17.0	48.0	600	326	922	14402
17	28.5	18.0	50.0	547	346	960	13135
18	23.3	20.0	29.0	446	384	557	10715
19	21.3	20.0	24.0	408	384	461	9793
20	19.0	10.0	26.0	365	192	499	8756
21	21.3	17.0	26.0	408	326	499	9793
22	21.5	16.0	30.0	413	307	576	9908
23	22.3	13.0	30.0	427	250	576	10254
24	23.0	13.0	33.0	442	250	634	10600
25	22.3	12.0	34.0	427	230	653	10254
26	41.5	10.0	102.0	797	192	1959	19126
27	42.6	9.4	102.0	818	181	1959	19653
28	34.0	13.0	68.0	653	250	1306	15669
29	32.5	13.0	56.0	624	250	1075	14978
30	32.4	9.4	58.0	621	181	1114	14909
31	34.4	9.5	61.0	660	182	1171	15842
MO							347903

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=2.73FT,E=83%,Q=FLOW & P=DME/11.8

MONTH=JUNE

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	35.2	8.9	58.0	676	171	1114	16234
2	52.5	10.0	111.0	1008	192	2131	24195
3	50.7	8.9	138.0	1051	171	2650	25221
4	47.9	8.5	113.0	919	163	2170	22064
5	67.9	8.5	170.0	1303	163	3264	31281
6	46.0	7.0	105.0	883	134	2016	21200
7	35.9	8.4	66.0	688	161	1267	16522
8	31.0	7.8	52.0	594	150	999	14264
9	33.1	7.6	61.0	637	146	1171	15278
10	40.8	14.0	82.0	783	269	1575	18780
11	37.6	9.5	76.0	722	182	1459	17340
12	35.3	17.0	59.0	677	326	1133	16249
13	28.7	19.0	47.0	550	365	903	13211
14	31.3	15.0	45.0	600	288	864	14402
15	23.8	12.0	43.0	456	230	826	10945
16	20.8	11.0	39.0	398	211	749	9563
17	19.6	9.5	37.0	377	182	710	9044
18	19.6	8.3	36.0	376	159	691	9021
19	20.3	7.1	41.0	389	136	787	9344
20	20.7	5.8	38.0	397	111	730	9540
21	29.8	11.0	38.0	571	211	730	13711
22	25.3	11.0	34.0	485	211	653	11637
23	25.5	14.0	36.0	490	269	691	11752
24	29.8	15.0	38.0	571	288	730	13711
25	37.0	25.0	57.0	710	480	1095	17052
26	38.0	26.0	65.0	730	499	1248	17513
27	36.3	27.0	43.0	696	518	826	16706
28	34.5	16.0	51.0	662	307	979	15900
29	35.0	16.0	60.0	672	307	1152	16130
30	35.8	16.0	62.0	686	307	1191	16476
MO							474879

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JULY

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW=HRS (24)AVG POWER
1	28.3	16.0	45.0	542	307	864	13019
2	29.8	15.0	53.0	571	288	1018	13711
3	31.8	14.0	55.0	610	269	1056	14652
4	40.5	12.0	94.0	778	230	1805	18665
5	24.7	9.7	41.0	474	186	787	11372
6	20.7	7.7	33.0	397	148	634	9528
7	22.9	6.5	37.0	439	125	710	10542
8	19.9	5.5	33.0	382	106	634	9160
9	17.6	4.4	32.0	338	84	614	8111
10	15.8	4.0	30.0	302	77	576	7259
11	14.5	4.0	29.0	278	77	557	6682
12	13.4	3.5	27.0	257	67	518	6168
13	12.6	3.3	26.0	241	63	499	5795
14	12.5	2.8	25.0	239	54	480	5738
15	14.7	2.8	35.0	282	54	672	6775
16	15.6	3.4	36.0	300	65	691	7189
17	15.4	3.8	38.0	296	73	730	7109
18	18.7	4.0	54.0	360	77	1037	8630
19	22.5	4.0	73.0	431	77	1402	10346
20	14.6	0.5	46.0	280	10	883	6729
21	13.6	0.5	42.0	260	10	807	6245
22	12.7	0.5	40.0	243	10	768	5830
23	11.2	0.5	34.0	216	10	655	5173
24	11.4	0.5	32.0	218	10	614	5242
25	10.5	0.9	29.0	202	16	557	4845
26	10.0	2.9	26.0	193	56	499	4632
27	9.3	1.1	25.0	180	21	480	4309
28	9.3	0.9	24.0	179	18	461	4289
29	9.5	1.1	23.0	182	21	442	4378
30	9.4	2.7	20.0	181	52	384	4344
31	10.3	4.3	21.0	198	83	403	4747
MO							241189

ONR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=AUGUST

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	11.3	4.4	23.0	217	84	442	5219
2	9.0	3.9	20.0	172	75	384	4136
3	9.1	4.5	20.0	175	86	384	4205
4	10.9	3.6	21.0	208	69	403	5000
5	11.8	3.7	22.0	226	71	422	5427
6	8.8	3.7	19.0	169	71	365	4056
7	9.3	3.7	23.0	178	71	442	4283
8	9.5	3.8	20.0	181	73	384	4385
9	9.8	3.6	23.0	187	69	442	4493
10	9.1	3.8	22.0	175	73	422	4205
11	8.8	3.5	21.0	169	67	403	4067
12	11.3	3.7	32.0	216	71	614	5185
13	11.8	3.7	35.0	228	71	672	5461
14	11.8	3.6	34.0	226	69	653	5415
15	10.6	3.9	30.0	203	75	576	4862
16	9.5	3.9	26.0	183	75	499	4390
17	8.8	4.0	23.0	169	77	442	4067
18	8.6	3.7	22.0	166	71	422	3973
19	8.9	3.6	22.0	164	69	422	3929
20	7.8	3.5	20.0	149	67	384	3583
21	7.8	3.4	20.0	150	65	384	3606
22	8.0	3.3	18.0	154	63	346	3687
23	7.8	3.2	16.0	149	61	307	3572
24	7.6	2.3	16.0	146	44	307	3514
25	7.2	2.9	15.0	137	56	288	3293
26	7.3	2.9	15.0	140	56	288	3393
27	6.8	2.7	14.0	131	52	269	3145
28	7.1	2.7	13.0	137	52	250	3284
29	7.2	2.9	14.0	137	56	269	3295
30	7.7	2.9	15.0	147	56	288	3526
31	8.0	2.9	17.0	155	48	326	3710
MO							126280

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBIOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=SEPTEMBR

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	8.4	2.7	18.0	162	52	346	3883
2	7.5	2.4	15.0	144	46	288	3468
3	8.4	2.9	18.0	161	56	346	3860
4	7.8	2.4	18.0	150	46	346	3606
5	12.2	2.4	27.0	234	46	518	5611
6	11.0	1.8	25.0	211	35	480	5069
7	10.3	2.0	22.0	198	38	422	4767
8	15.6	2.3	23.0	299	44	442	7178
9	12.5	1.9	23.0	240	36	442	5749
10	11.9	2.0	25.0	229	38	480	5486
11	10.7	2.0	22.0	205	38	422	4908
12	21.3	2.0	65.0	409	38	1248	9816
13	34.2	3.7	112.0	656	71	2151	15750
14	52.6	2.6	163.0	1011	50	3130	24264
15	50.1	2.4	168.0	962	46	3226	23089
16	14.6	2.3	25.0	280	44	480	6717
17	35.0	2.1	112.0	673	40	2151	16148
18	57.0	6.8	179.0	1094	131	3437	26246
19	33.5	5.2	95.0	643	100	1824	15439
20	44.1	5.0	143.0	846	96	2746	20301
21	38.7	4.3	121.0	743	83	2324	17824
22	26.0	3.9	38.0	499	75	730	11971
23	48.1	3.5	139.0	924	67	2669	22179
24	19.3	3.2	32.0	371	61	614	8895
25	29.7	2.9	48.0	494	56	922	11856
26	27.0	2.9	54.0	518	56	1037	12432
27	35.5	4.1	100.0	682	79	1920	16372
28	30.7	3.7	56.0	589	71	1075	14137
29	18.9	6.8	25.0	364	131	480	8726
30	22.4	6.2	42.0	430	119	807	10323
MO							346041

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=OCTOBER

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	11.0	7.0	15.0	211	134	288	5069
2	10.6	7.1	14.0	203	136	269	4862
3	9.1	6.1	12.0	174	117	230	4171
4	8.2	5.4	11.0	157	104	211	3779
5	8.5	5.0	12.0	163	96	230	3917
6	7.8	4.6	11.0	150	88	211	3595
7	6.7	4.5	8.9	129	86	171	3088
8	6.4	4.4	8.4	123	84	161	2950
9	6.0	4.9	7.0	114	94	134	2742
10	17.8	6.6	29.0	342	127	557	8203
11	14.5	12.0	17.0	278	230	326	6682
12	27.0	13.0	41.0	518	250	787	12443
13	16.0	11.0	21.0	307	211	403	7374
14	17.5	14.0	21.0	336	269	403	8065
15	29.0	17.0	41.0	557	326	787	13365
16	25.0	21.0	29.0	480	403	557	11522
17	22.0	16.0	28.0	422	307	538	10139
18	15.7	13.0	19.0	301	250	365	7220
19	14.3	13.0	16.0	275	250	307	6606
20	12.7	12.0	14.0	243	230	269	5838
21	14.3	12.0	19.0	275	230	365	6606
22	12.7	11.0	15.0	243	211	288	5838
23	11.3	10.0	13.0	218	192	250	5223
24	10.3	8.9	12.0	198	171	230	4747
25	9.8	8.4	11.0	188	161	211	4516
26	9.7	6.6	13.0	187	127	250	4486
27	9.1	6.0	12.0	174	115	230	4178
28	8.2	6.4	9.8	157	123	188	3779
29	7.5	6.1	8.6	143	117	165	3441
30	7.2	6.1	8.5	138	117	163	3318
31	7.7	7.0	8.9	147	134	183	3533
MO							181295

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=NOVEMBER

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	8.7	8.5	9.0	166	163	173	3994
2	7.9	7.5	8.2	151	144	157	3625
3	8.0	7.1	8.5	154	136	163	3702
4	7.7	6.8	8.5	148	131	163	3564
5	7.4	6.7	8.5	143	129	163	3426
6	7.8	6.4	8.5	149	123	163	3579
7	16.4	6.7	34.0	315	129	653	7558
8	14.9	8.5	27.0	287	163	518	6882
9	17.5	7.5	34.0	336	144	653	8065
10	31.5	7.4	50.0	604	142	960	14502
11	17.2	7.7	25.0	331	148	480	7942
12	16.7	14.0	18.0	320	269	346	7681
13	13.3	11.0	15.0	256	211	288	6145
14	12.0	10.0	14.0	230	192	269	5530
15	11.0	10.0	12.0	211	192	230	5069
16	10.1	9.6	11.0	195	184	211	4670
17	9.1	8.5	9.8	175	163	188	4209
18	8.5	8.0	9.1	164	154	175	3933
19	9.3	8.5	11.0	179	163	211	4301
20	11.0	8.4	16.0	211	161	307	5054
21	13.8	8.5	23.2	265	163	445	6360
22	18.8	8.5	30.0	362	163	576	8680
23	15.0	8.1	22.0	289	156	422	6928
24	11.7	7.1	15.0	225	136	288	5392
25	12.9	6.8	18.0	248	131	346	5960
26	17.7	13.0	24.0	339	250	461	8142
27	19.0	15.0	27.0	365	288	518	8756
28	37.3	12.0	83.0	717	230	1598	17205
29	60.0	15.0	149.0	1152	288	2861	27652
30	29.0	13.0	53.0	557	250	1018	13365
MO							221873

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=DECEMBER

DAY	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (24)AVG POWER
1	27.7	12.0	45.0	531	230	864	12750
2	21.7	16.0	33.0	416	307	634	9985
3	15.2	6.5	27.0	291	125	518	6990
4	12.3	4.0	23.0	237	77	442	5684
5	14.5	3.4	22.0	278	65	422	6667
6	13.7	3.2	20.0	264	61	384	6329
7	14.8	2.4	22.0	284	46	422	6821
8	23.3	17.0	27.0	448	326	518	10753
9	26.3	14.0	41.0	505	269	787	12121
10	27.7	19.0	45.0	531	365	864	12750
11	33.7	16.0	55.0	646	307	1056	15516
12	20.0	14.0	23.0	384	269	442	9217
13	16.7	12.0	20.0	320	230	384	7681
14	17.0	11.0	24.0	326	211	461	7835
15	17.0	9.9	23.0	326	190	442	7819
16	13.7	8.1	19.0	263	156	365	6314
17	10.4	6.4	15.0	199	123	288	4778
18	11.0	5.1	14.0	212	98	269	5085
19	12.5	8.5	16.0	240	163	307	5761
20	20.0	12.0	34.0	384	230	653	9217
21	22.3	17.0	31.0	429	326	595	10293
22	19.7	15.0	23.0	378	288	442	9064
23	15.7	13.0	19.0	301	250	365	7220
24	12.9	9.6	17.0	247	184	326	5930
25	11.1	7.4	15.0	214	142	288	5131
26	18.0	13.0	27.0	346	250	518	8295
27	19.3	13.0	28.0	371	250	538	8910
28	23.7	12.0	46.0	454	230	883	10907
29	24.0	12.0	48.0	461	230	922	11061
30	16.5	8.5	31.0	317	163	595	7604
31	13.9	5.8	26.0	268	111	499	6421
MO							260908
							2802672

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
MONTHLY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (731)AVG POWER
JANUARY	13.2	3.7	41.0	254	71	787	185685
FEBRUARY	9.3	1.0	24.0	179	19	461	130598
MARCH	10.6	1.0	50.0	203	19	960	148491
APRIL	10.0	4.2	21.0	192	81	403	140601
MAY	24.4	9.2	102.0	468	177	1959	341619
JUNE	34.4	5.8	170.0	660	111	3264	481899
JULY	16.9	0.5	94.0	324	10	1805	236832
AUGUST	9.0	2.3	35.0	172	44	672	125963
SEPTEMBR	25.1	1.8	179.0	482	35	3437	352153
OCTOBER	12.3	4.4	41.0	237	84	787	172995
NOVEMBER	16.0	6.4	149.0	308	123	2861	225128
DECEMBER	18.3	2.4	55.0	351	46	1056	258195
							********
							2798118

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
QUARTERLY SUMMARY
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

QUARTER	MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (2191)AVG POWER
FIRST_QUARTER	11.0	1.0	50.0	212	19	960	464974
SECOND_QUARTER	22.9	4.2	170.0	440	81	3264	963383
THIRD_QUARTER	16.9	0.5	179.0	324	10	3437	709291
FOURTH_QUARTER	15.8	2.4	149.0	302	46	2861	662902
							********
							2800549

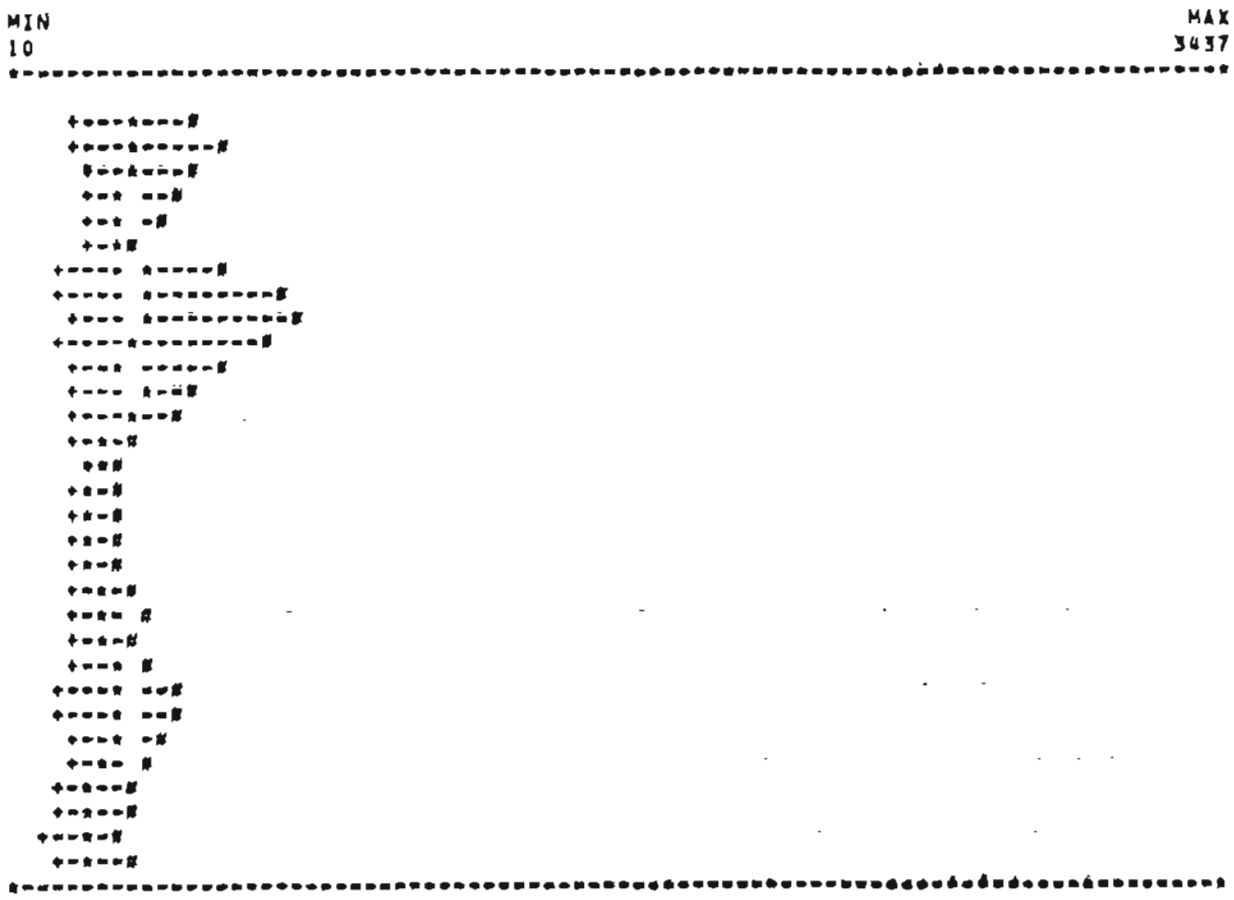
DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
OVERALL SUMMARY

MEAN FLOW (CFS)	MINIMUM FLOW (CFS)	MAXIMUM FLOW (CFS)	AVG POWER (KW)	MIN POWER (KW)	MAX POWER (KW)	AVG ENERGY KW-HRS (8766)AVG POWER
17.0	0.5	179.0	326	10	3437	2861003
						*******
						2861003

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBIOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JANUARY

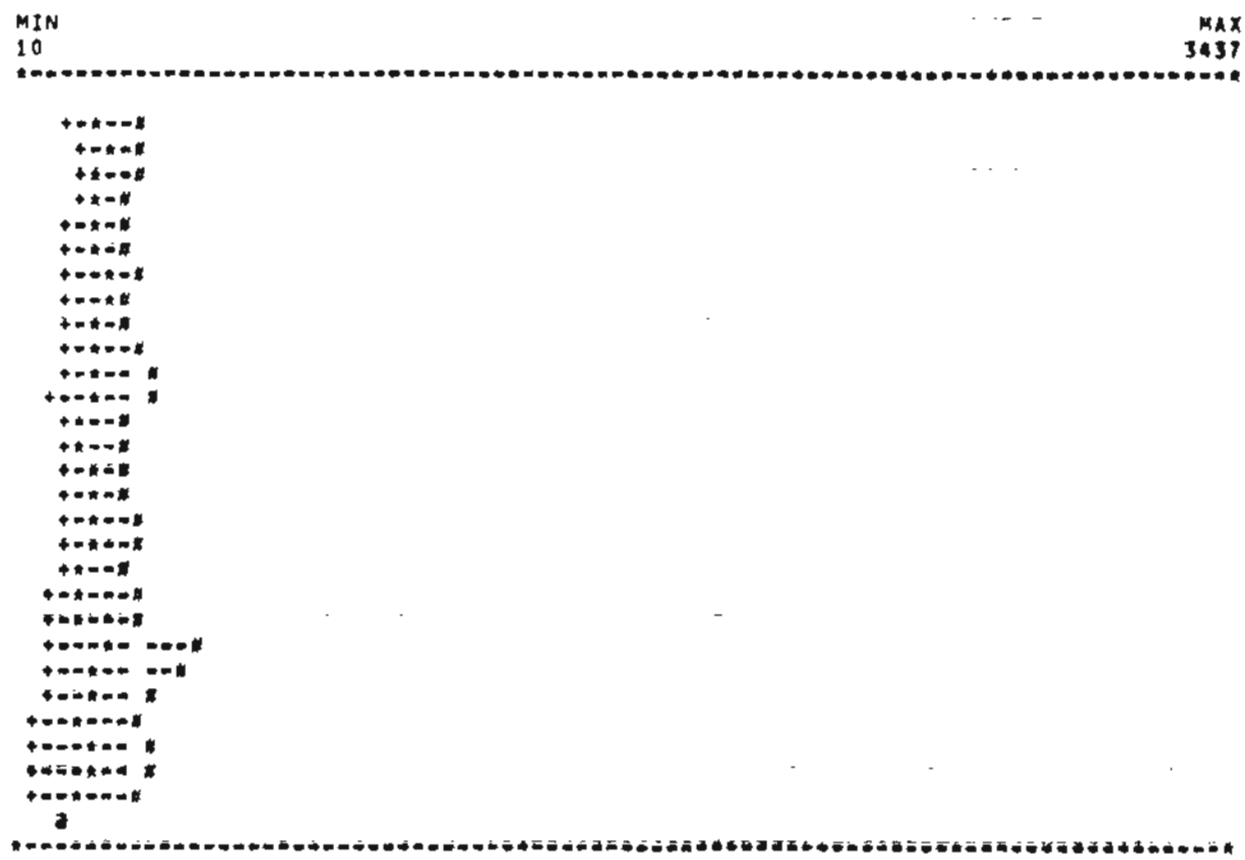
MO	DD	PMEAN
JANUARY	1	309
JANUARY	2	315
JANUARY	3	298
JANUARY	4	267
JANUARY	5	250
JANUARY	6	275
JANUARY	7	304
JANUARY	8	358
JANUARY	9	364
JANUARY	10	312
JANUARY	11	282
JANUARY	12	353
JANUARY	13	307
JANUARY	14	233
JANUARY	15	224
JANUARY	16	189
JANUARY	17	184
JANUARY	18	179
JANUARY	19	175
JANUARY	20	211
JANUARY	21	221
JANUARY	22	220
JANUARY	23	257
JANUARY	24	268
JANUARY	25	267
JANUARY	26	285
JANUARY	27	211
JANUARY	28	182
JANUARY	29	177
JANUARY	30	184
JANUARY	31	180



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=FEBRUARY

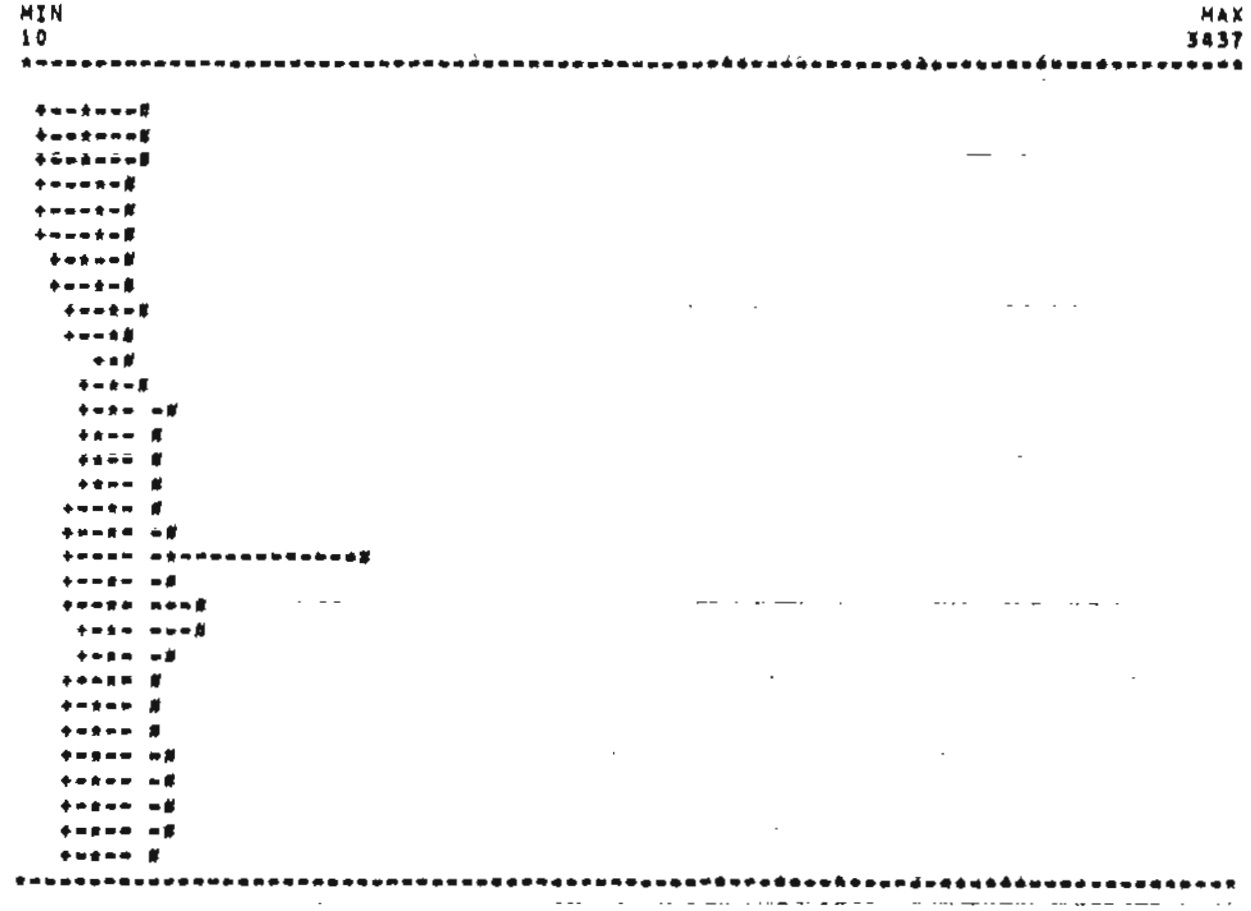
MO	DD	PMEAN
FEBRUARY	1	172
FEBRUARY	2	207
FEBRUARY	3	197
FEBRUARY	4	179
FEBRUARY	5	174
FEBRUARY	6	173
FEBRUARY	7	229
FEBRUARY	8	217
FEBRUARY	9	202
FEBRUARY	10	181
FEBRUARY	11	181
FEBRUARY	12	179
FEBRUARY	13	157
FEBRUARY	14	153
FEBRUARY	15	173
FEBRUARY	16	191
FEBRUARY	17	193
FEBRUARY	18	179
FEBRUARY	19	157
FEBRUARY	20	159
FEBRUARY	21	159
FEBRUARY	22	203
FEBRUARY	23	190
FEBRUARY	24	164
FEBRUARY	25	155
FEBRUARY	26	182
FEBRUARY	27	170
FEBRUARY	28	154
FEBRUARY	29	111



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MARCH

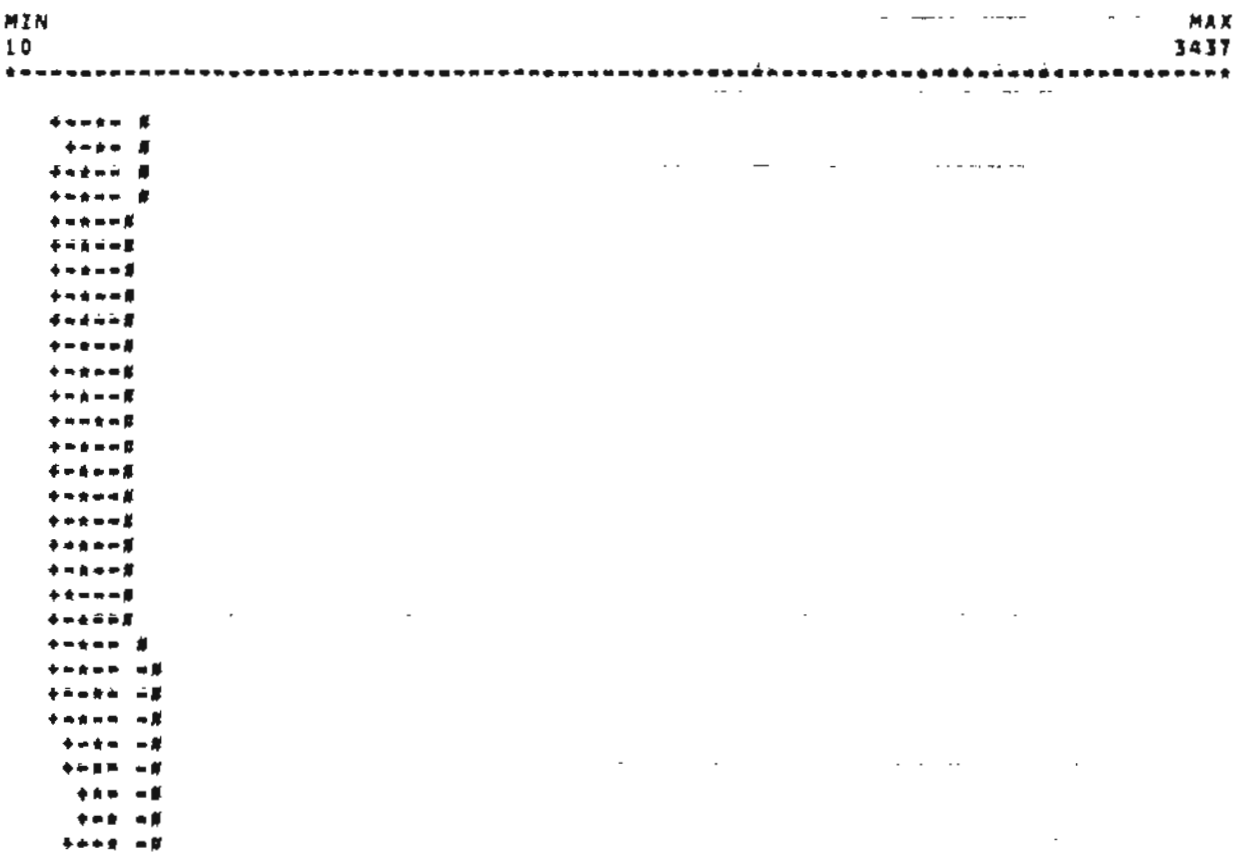
MO	DD	PMEAN
MARCH	1	145
MARCH	2	146
MARCH	3	148
MARCH	4	160
MARCH	5	202
MARCH	6	160
MARCH	7	150
MARCH	8	169
MARCH	9	207
MARCH	10	230
MARCH	11	230
MARCH	12	207
MARCH	13	211
MARCH	14	198
MARCH	15	190
MARCH	16	194
MARCH	17	232
MARCH	18	237
MARCH	19	402
MARCH	20	229
MARCH	21	225
MARCH	22	222
MARCH	23	241
MARCH	24	224
MARCH	25	194
MARCH	26	185
MARCH	27	191
MARCH	28	178
MARCH	29	184
MARCH	30	180
MARCH	31	174



HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=APRIL

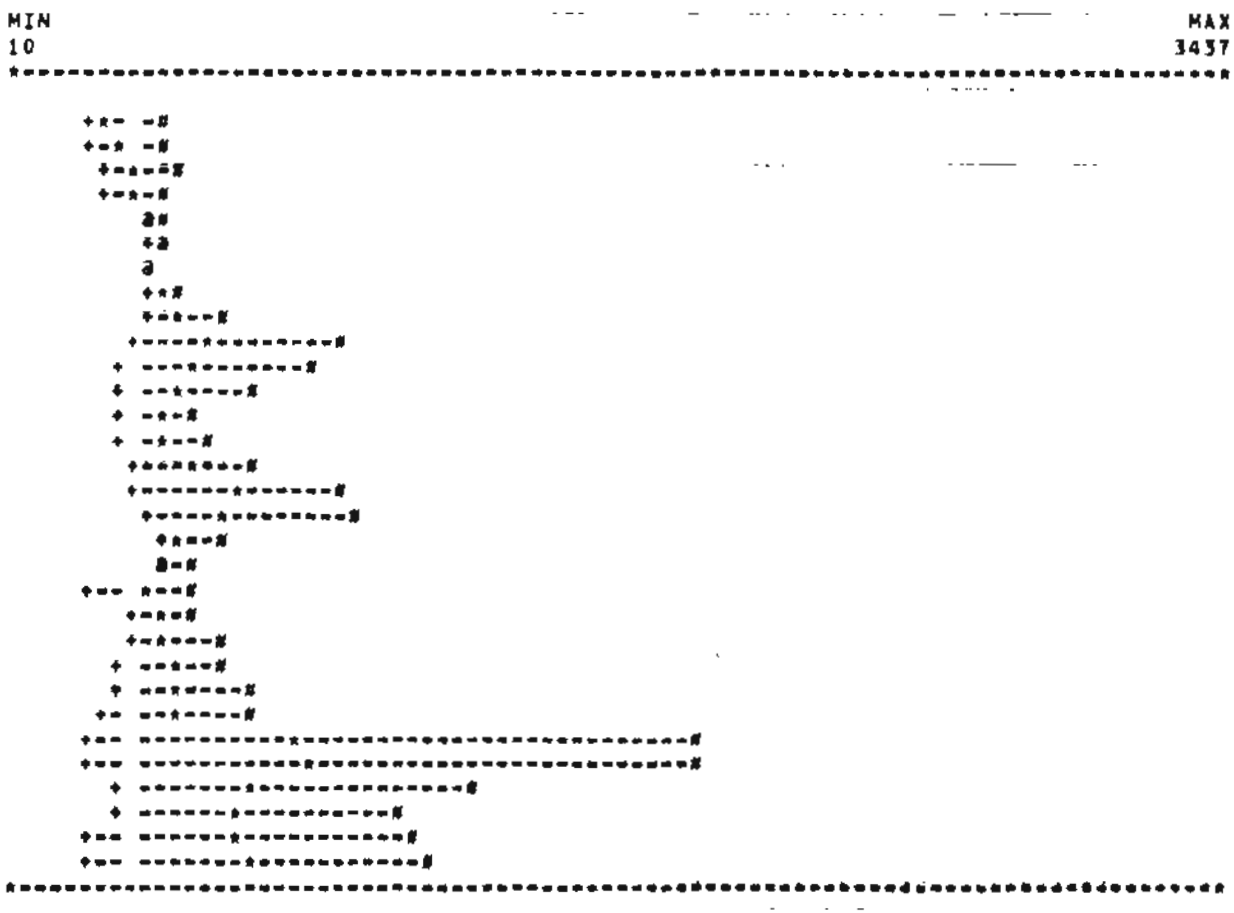
MO	DD	PMEAN
APRIL	1	204
APRIL	2	209
APRIL	3	174
APRIL	4	167
APRIL	5	170
APRIL	6	177
APRIL	7	189
APRIL	8	180
APRIL	9	182
APRIL	10	174
APRIL	11	169
APRIL	12	202
APRIL	13	214
APRIL	14	170
APRIL	15	164
APRIL	16	171
APRIL	17	177
APRIL	18	195
APRIL	19	160
APRIL	20	157
APRIL	21	167
APRIL	22	180
APRIL	23	194
APRIL	24	212
APRIL	25	198
APRIL	26	218
APRIL	27	236
APRIL	28	239
APRIL	29	263
APRIL	30	263



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MAY

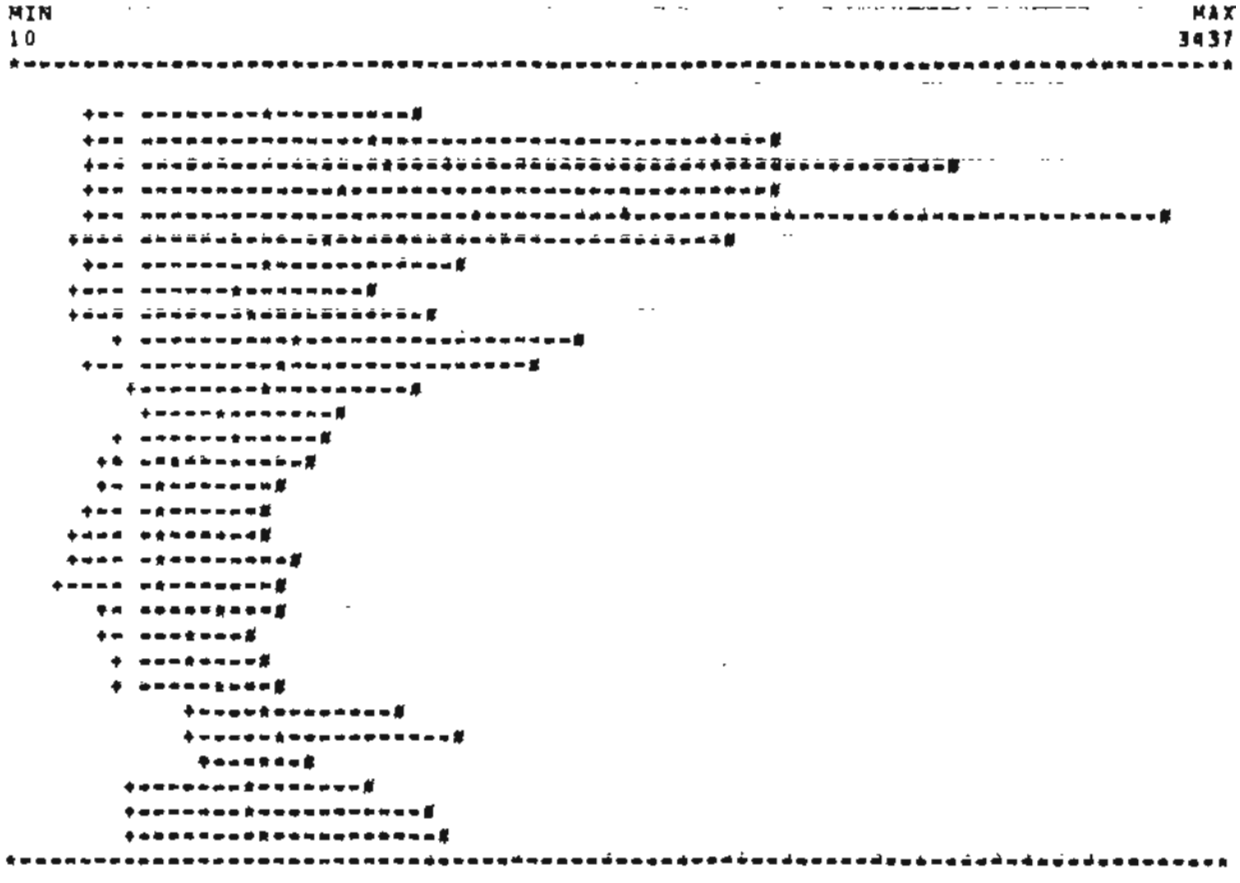
MO	DD	PMEAN
MAY	1	241
MAY	2	255
MAY	3	322
MAY	4	322
MAY	5	370
MAY	6	374
MAY	7	360
MAY	8	394
MAY	9	451
MAY	10	528
MAY	11	499
MAY	12	451
MAY	13	398
MAY	14	394
MAY	15	480
MAY	16	600
MAY	17	547
MAY	18	446
MAY	19	408
MAY	20	365
MAY	21	408
MAY	22	413
MAY	23	427
MAY	24	442
MAY	25	427
MAY	26	797
MAY	27	818
MAY	28	653
MAY	29	628
MAY	30	621
MAY	31	660



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JUNE

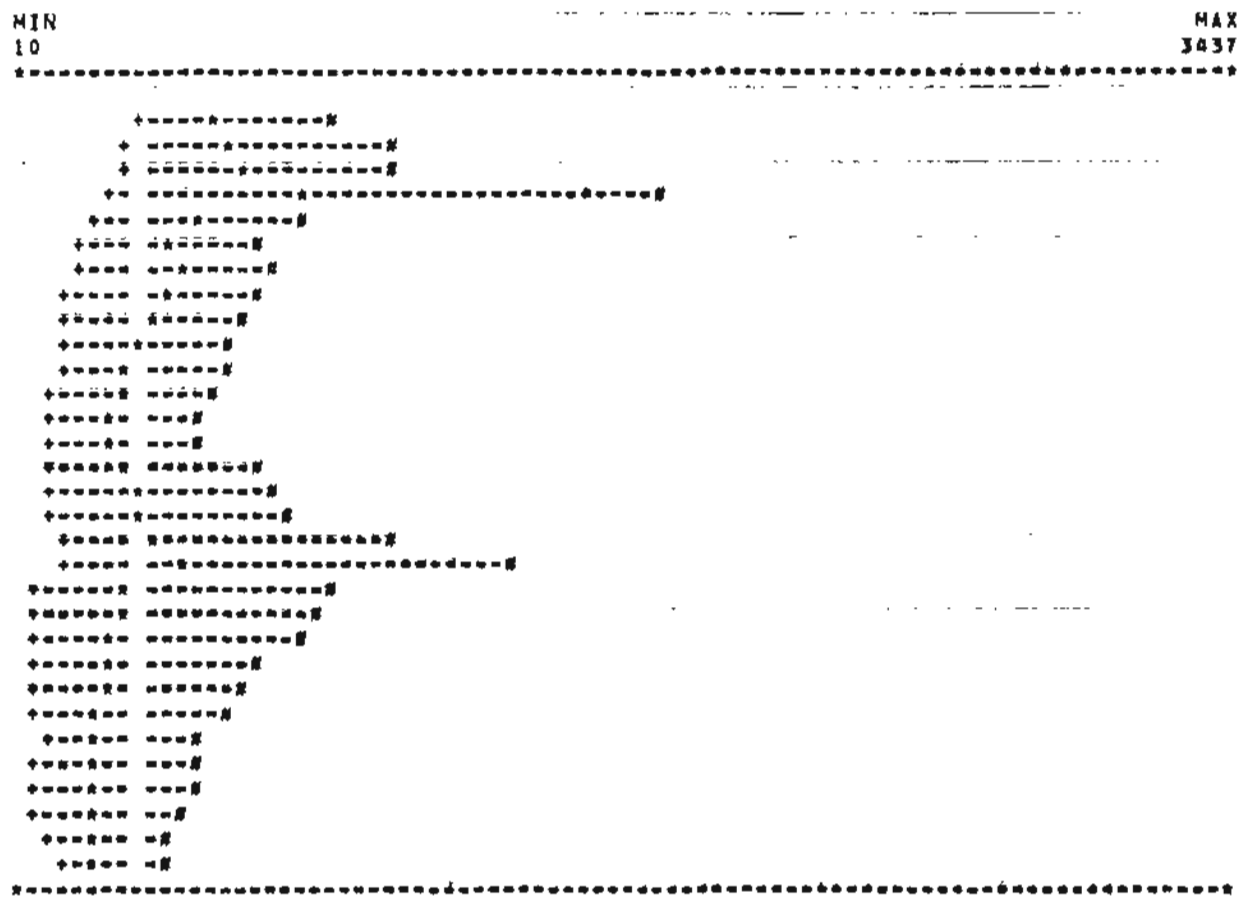
MO	DD	PMEAN
JUNE	1	676
JUNE	2	1008
JUNE	3	1051
JUNE	4	919
JUNE	5	1303
JUNE	6	883
JUNE	7	688
JUNE	8	594
JUNE	9	637
JUNE	10	783
JUNE	11	722
JUNE	12	677
JUNE	13	550
JUNE	14	600
JUNE	15	456
JUNE	16	398
JUNE	17	377
JUNE	18	376
JUNE	19	389
JUNE	20	397
JUNE	21	571
JUNE	22	485
JUNE	23	490
JUNE	24	571
JUNE	25	710
JUNE	26	730
JUNE	27	698
JUNE	28	662
JUNE	29	672
JUNE	30	686



HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JULY

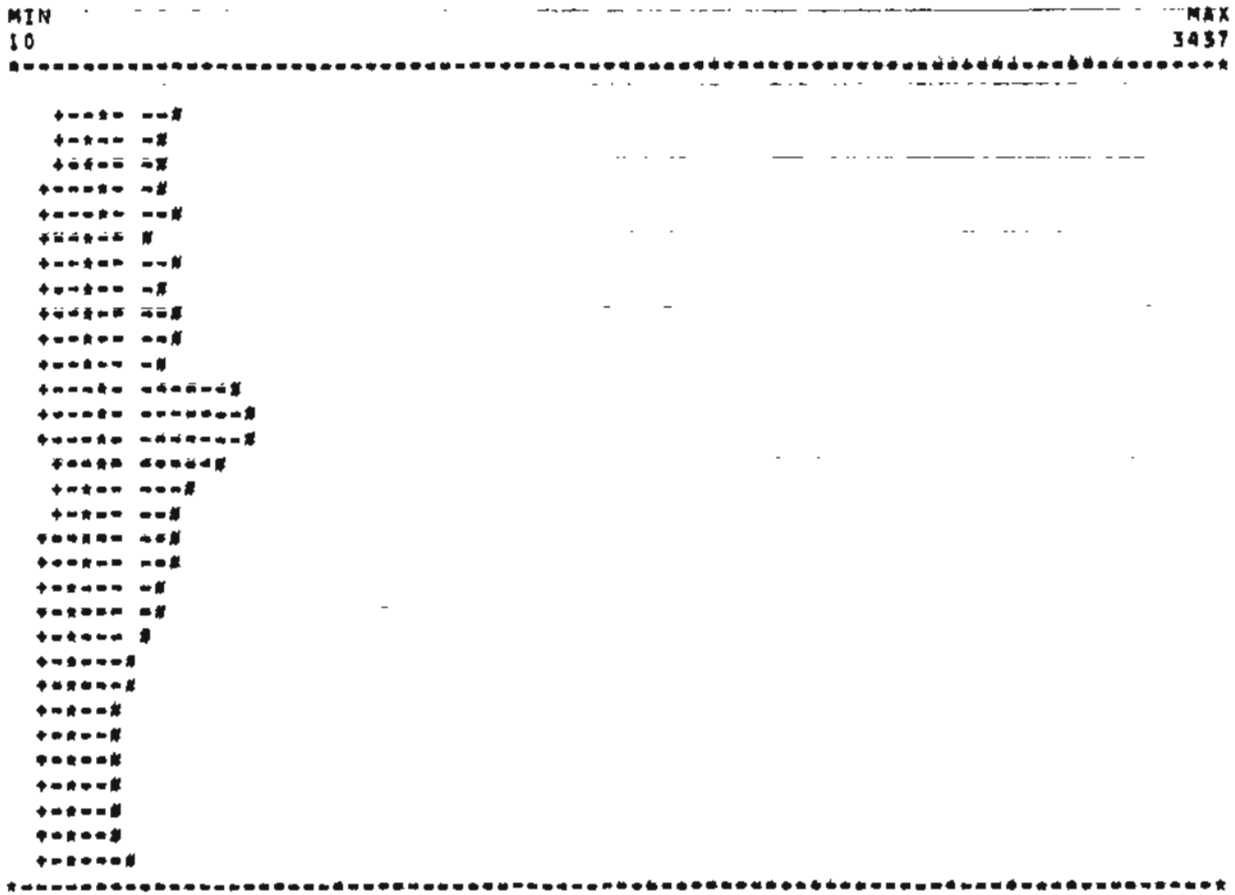
MO	DD	PMEAN
JULY	1	542
JULY	2	571
JULY	3	610
JULY	4	778
JULY	5	474
JULY	6	397
JULY	7	439
JULY	8	382
JULY	9	338
JULY	10	302
JULY	11	278
JULY	12	257
JULY	13	241
JULY	14	239
JULY	15	282
JULY	16	300
JULY	17	296
JULY	18	380
JULY	19	431
JULY	20	280
JULY	21	260
JULY	22	243
JULY	23	216
JULY	24	218
JULY	25	202
JULY	26	193
JULY	27	180
JULY	28	179
JULY	29	182
JULY	30	181
JULY	31	198



HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=AUGUST

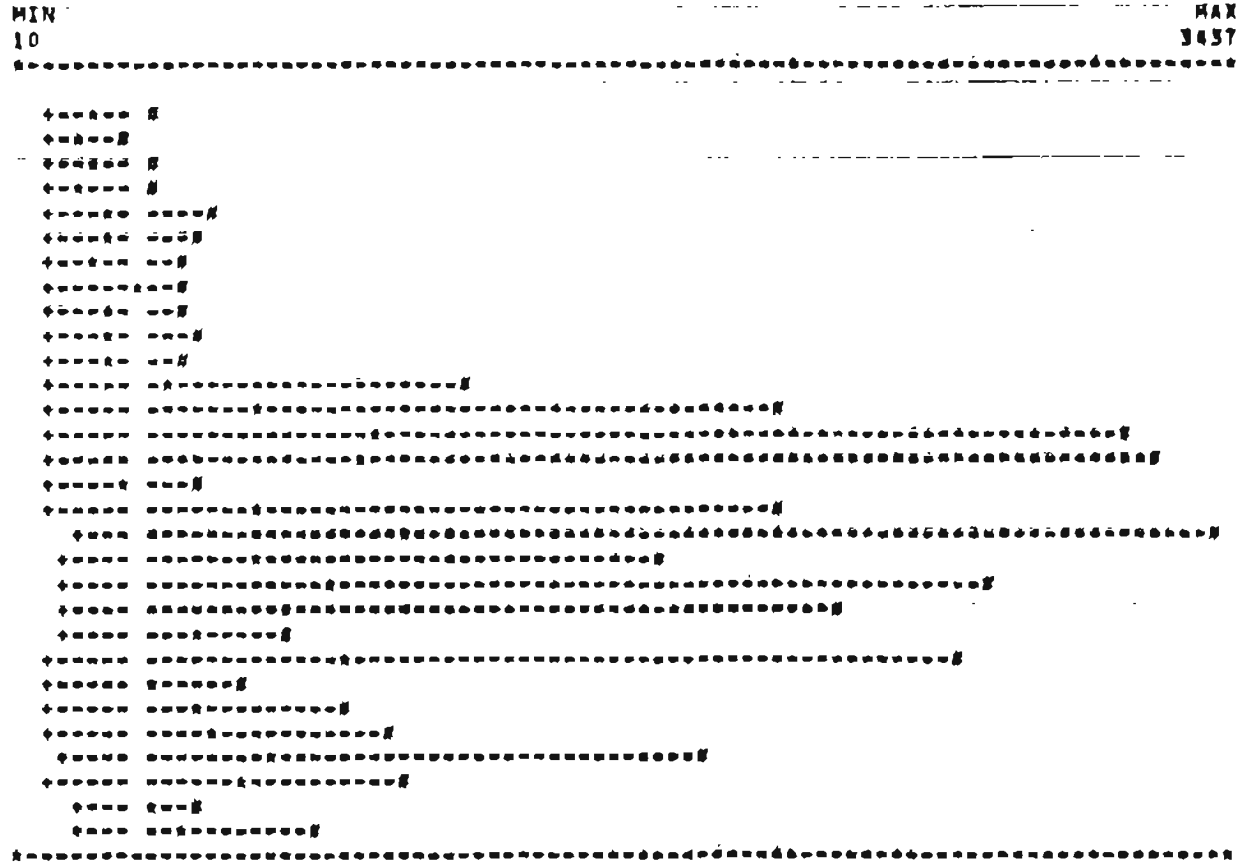
MO	DD	PMEAN
AUGUST	1	217
AUGUST	2	172
AUGUST	3	175
AUGUST	4	208
AUGUST	5	226
AUGUST	6	169
AUGUST	7	178
AUGUST	8	181
AUGUST	9	187
AUGUST	10	175
AUGUST	11	169
AUGUST	12	216
AUGUST	13	228
AUGUST	14	226
AUGUST	15	203
AUGUST	16	183
AUGUST	17	169
AUGUST	18	166
AUGUST	19	164
AUGUST	20	149
AUGUST	21	150
AUGUST	22	154
AUGUST	23	149
AUGUST	24	148
AUGUST	25	137
AUGUST	26	140
AUGUST	27	131
AUGUST	28	137
AUGUST	29	137
AUGUST	30	147
AUGUST	31	155



HARSTDY DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=SEPTEMBR

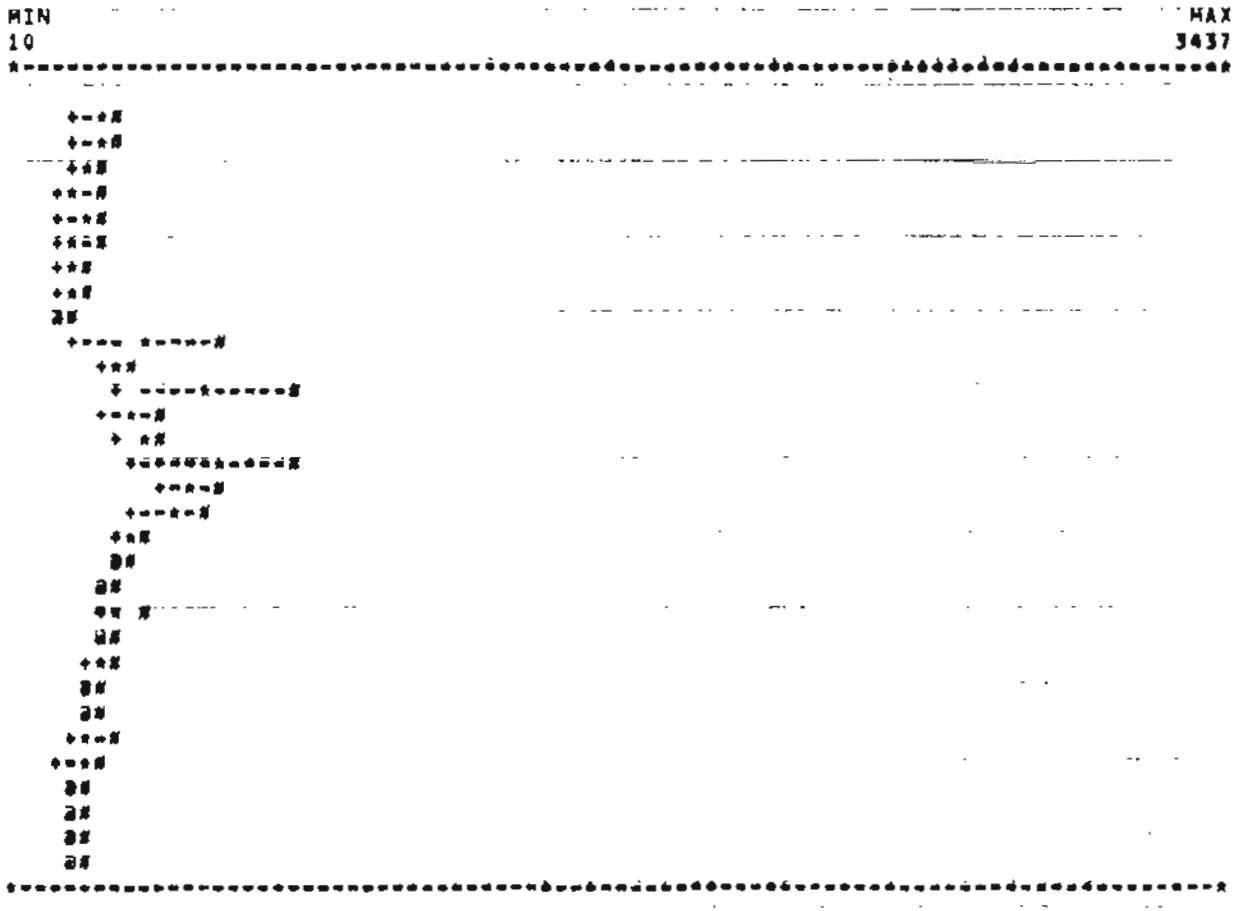
MO	DD	PMEAN
SEPTEMBR	1	162
SEPTEMBR	2	144
SEPTEMBR	3	161
SEPTEMBR	4	150
SEPTEMBR	5	234
SEPTEMBR	6	211
SEPTEMBR	7	196
SEPTEMBR	8	299
SEPTEMBR	9	240
SEPTEMBR	10	229
SEPTEMBR	11	205
SEPTEMBR	12	409
SEPTEMBR	13	656
SEPTEMBR	14	1011
SEPTEMBR	15	962
SEPTEMBR	16	280
SEPTEMBR	17	673
SEPTEMBR	18	1094
SEPTEMBR	19	643
SEPTEMBR	20	846
SEPTEMBR	21	743
SEPTEMBR	22	499
SEPTEMBR	23	924
SEPTEMBR	24	371
SEPTEMBR	25	494
SEPTEMBR	26	518
SEPTEMBR	27	682
SEPTEMBR	28	589
SEPTEMBR	29	364
SEPTEMBR	30	450



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=OCTOBER

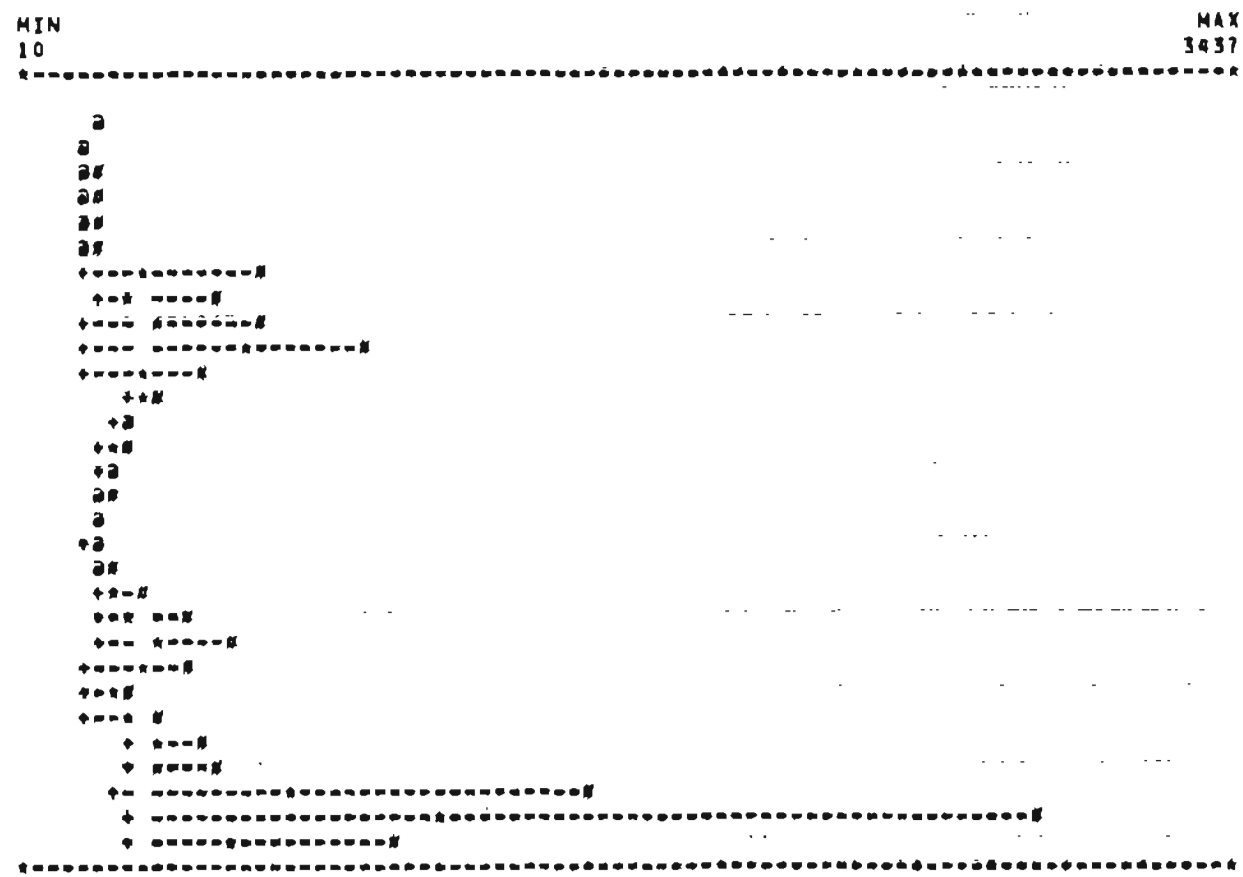
MO	DD	PMEAN
OCTOBER	1	211
OCTOBER	2	203
OCTOBER	3	174
OCTOBER	4	157
OCTOBER	5	163
OCTOBER	6	150
OCTOBER	7	129
OCTOBER	8	123
OCTOBER	9	114
OCTOBER	10	342
OCTOBER	11	278
OCTOBER	12	518
OCTOBER	13	307
OCTOBER	14	336
OCTOBER	15	557
OCTOBER	16	480
OCTOBER	17	422
OCTOBER	18	301
OCTOBER	19	275
OCTOBER	20	243
OCTOBER	21	275
OCTOBER	22	243
OCTOBER	23	218
OCTOBER	24	198
OCTOBER	25	188
OCTOBER	26	187
OCTOBER	27	174
OCTOBER	28	157
OCTOBER	29	143
OCTOBER	30	138
OCTOBER	31	147



HARBTDT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=NOVEMBER

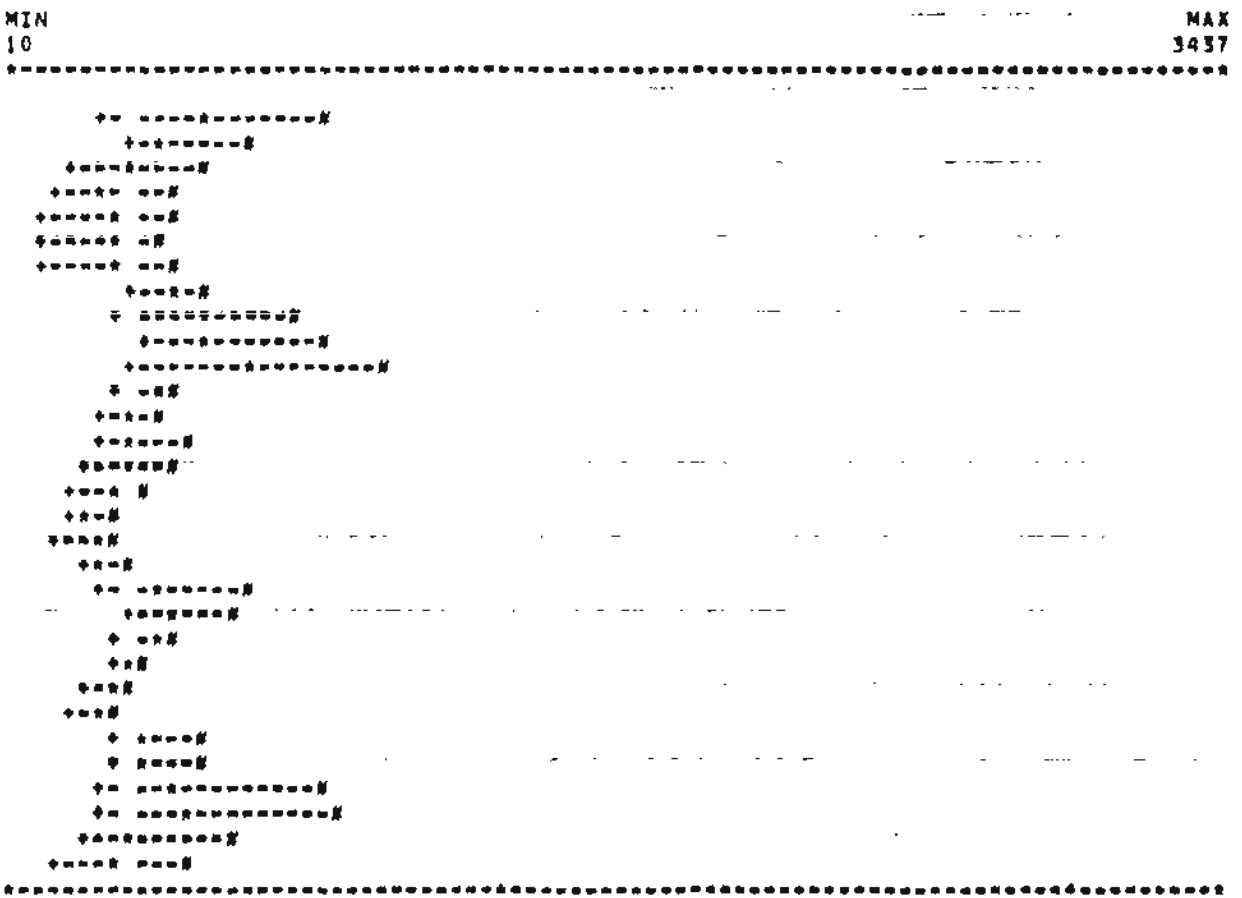
MO	DD	PMEAN
NOVEMBER	1	166
NOVEMBER	2	151
NOVEMBER	3	158
NOVEMBER	4	148
NOVEMBER	5	143
NOVEMBER	6	149
NOVEMBER	7	315
NOVEMBER	8	287
NOVEMBER	9	336
NOVEMBER	10	604
NOVEMBER	11	331
NOVEMBER	12	320
NOVEMBER	13	256
NOVEMBER	14	230
NOVEMBER	15	211
NOVEMBER	16	195
NOVEMBER	17	175
NOVEMBER	18	164
NOVEMBER	19	179
NOVEMBER	20	211
NOVEMBER	21	285
NOVEMBER	22	362
NOVEMBER	23	289
NOVEMBER	24	225
NOVEMBER	25	248
NOVEMBER	26	339
NOVEMBER	27	365
NOVEMBER	28	717
NOVEMBER	29	1152
NOVEMBER	30	557



HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11,8

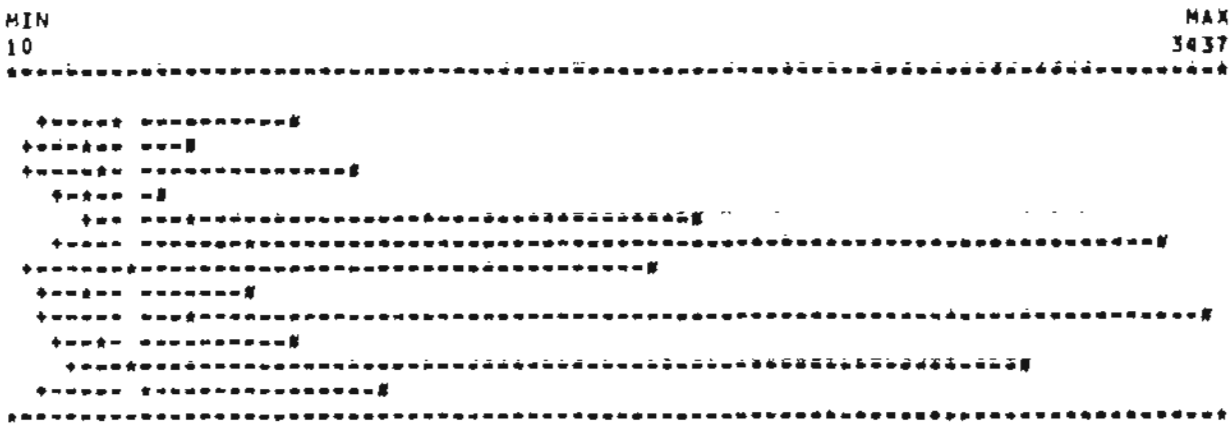
MONTH=DECEMBER

MO	DD	PMEAN
DECEMBER	1	531
DECEMBER	2	416
DECEMBER	3	291
DECEMBER	4	237
DECEMBER	5	278
DECEMBER	6	264
DECEMBER	7	284
DECEMBER	8	448
DECEMBER	9	505
DECEMBER	10	531
DECEMBER	11	646
DECEMBER	12	384
DECEMBER	13	320
DECEMBER	14	326
DECEMBER	15	328
DECEMBER	16	263
DECEMBER	17	199
DECEMBER	18	212
DECEMBER	19	240
DECEMBER	20	384
DECEMBER	21	429
DECEMBER	22	378
DECEMBER	23	301
DECEMBER	24	247
DECEMBER	25	214
DECEMBER	26	346
DECEMBER	27	371
DECEMBER	28	454
DECEMBER	29	461
DECEMBER	30	317
DECEMBER	31	268



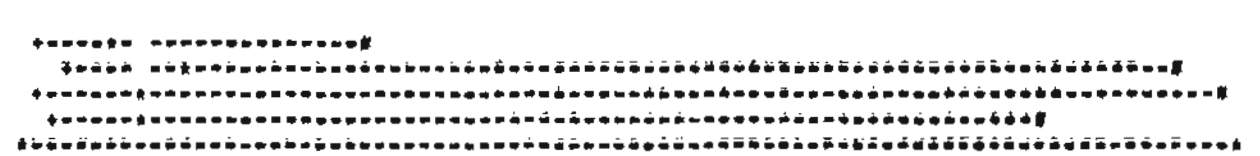
HARBTOT DATA REPORT*
MIDWAY CREEK NEAR OLD HARBOR
MONTHLY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MO	PMEAN
JANUARY	254
FEBRUARY	179
MARCH	203
APRIL	192
MAY	468
JUNE	660
JULY	324
AUGUST	172
SEPTEMBR	482
OCTOBER	237
NOVEMBER	308
DECEMBER	351



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
QUARTERLY MIN,MAX AND MEAN POWER (KW)
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

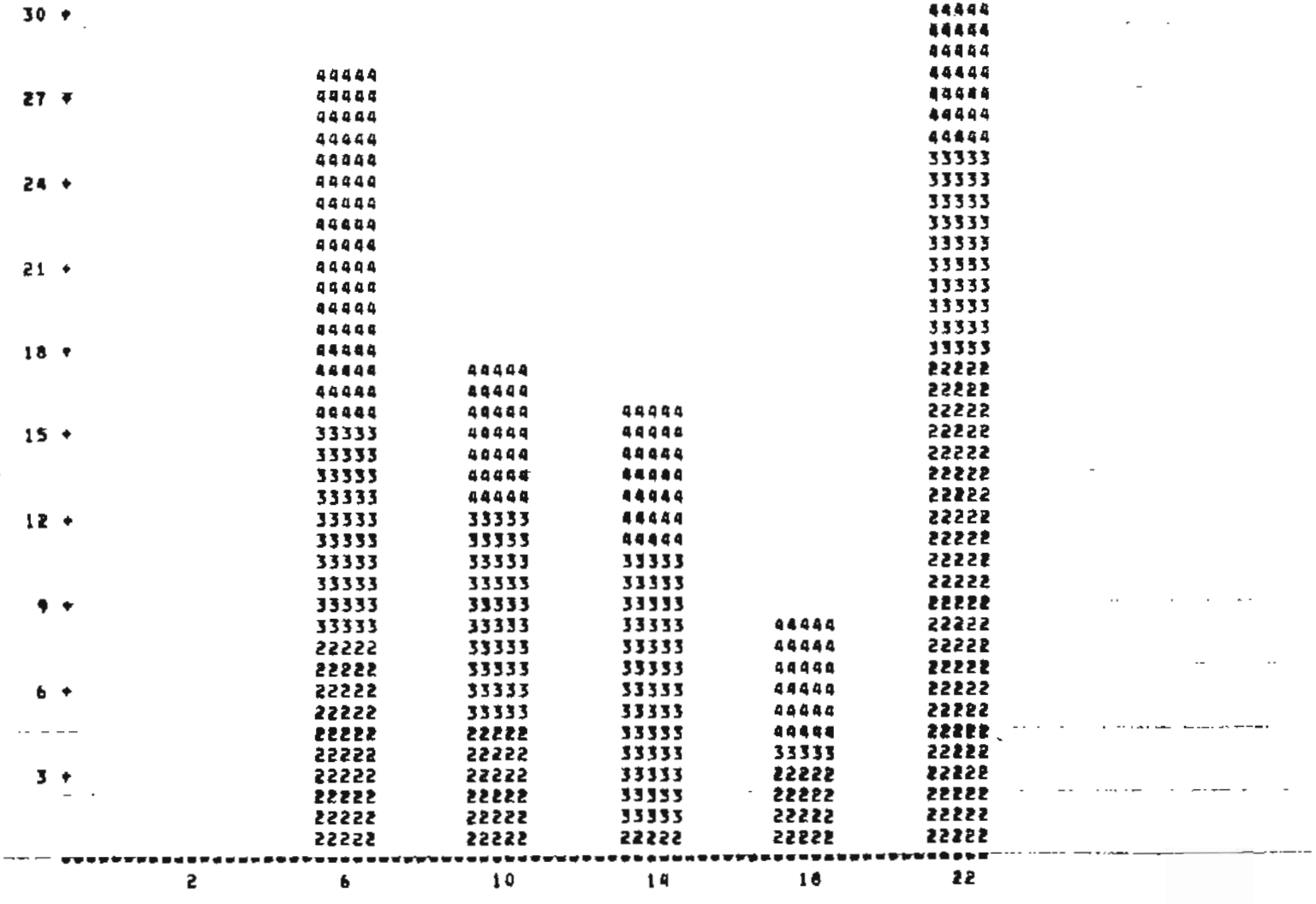
QUARTER	PMEAN
FIRST QUARTER	212
SECOND QUARTER	440
THIRD QUARTER	326
FOURTH QUARTER	302



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=JANUARY

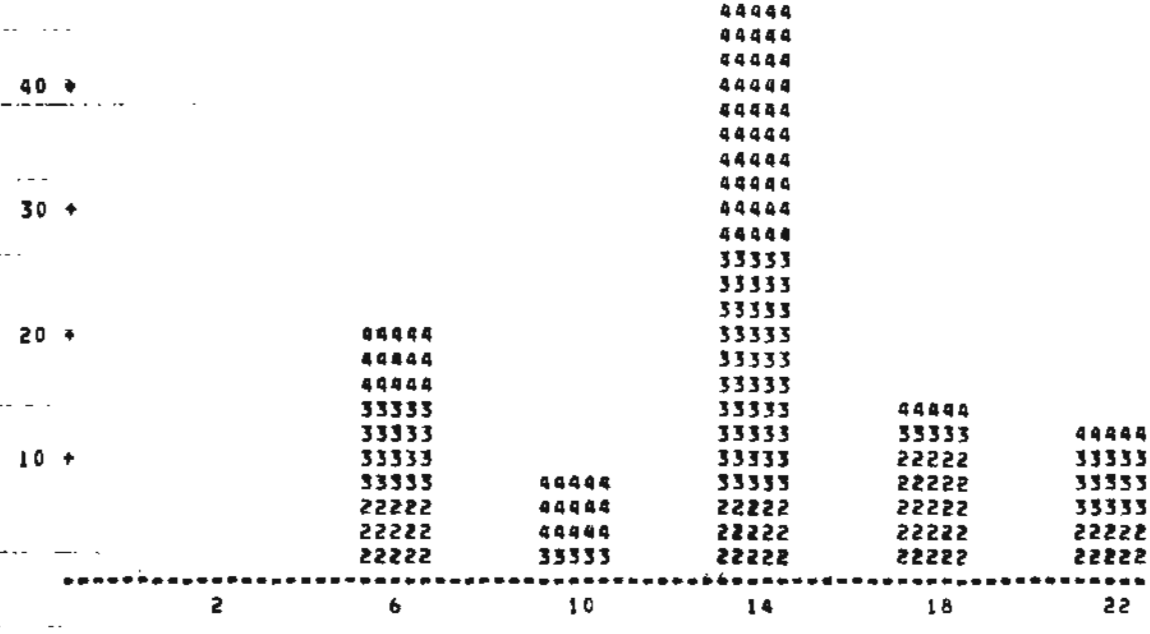
PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=FEBRUARY

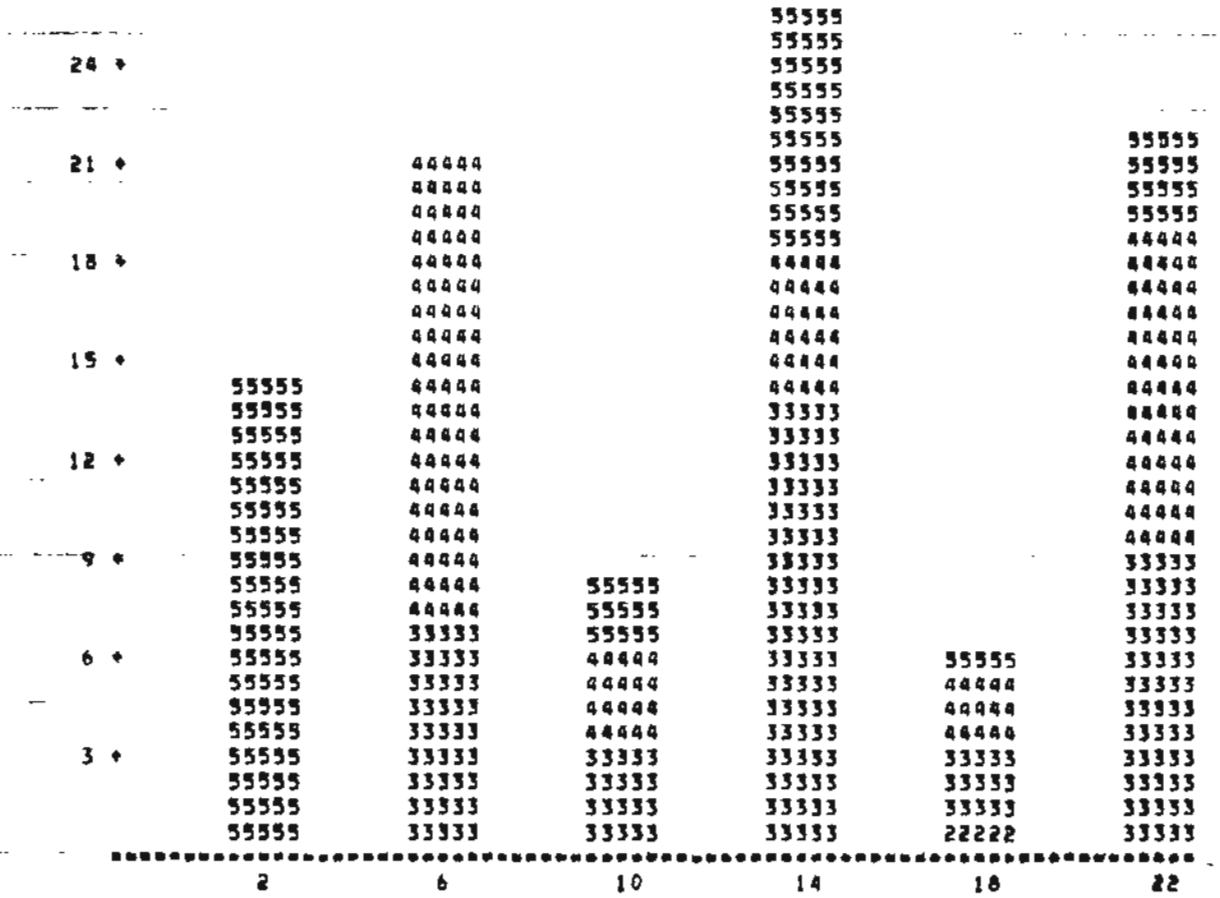
PERCENTAGE BAR CHART



DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=MARCH

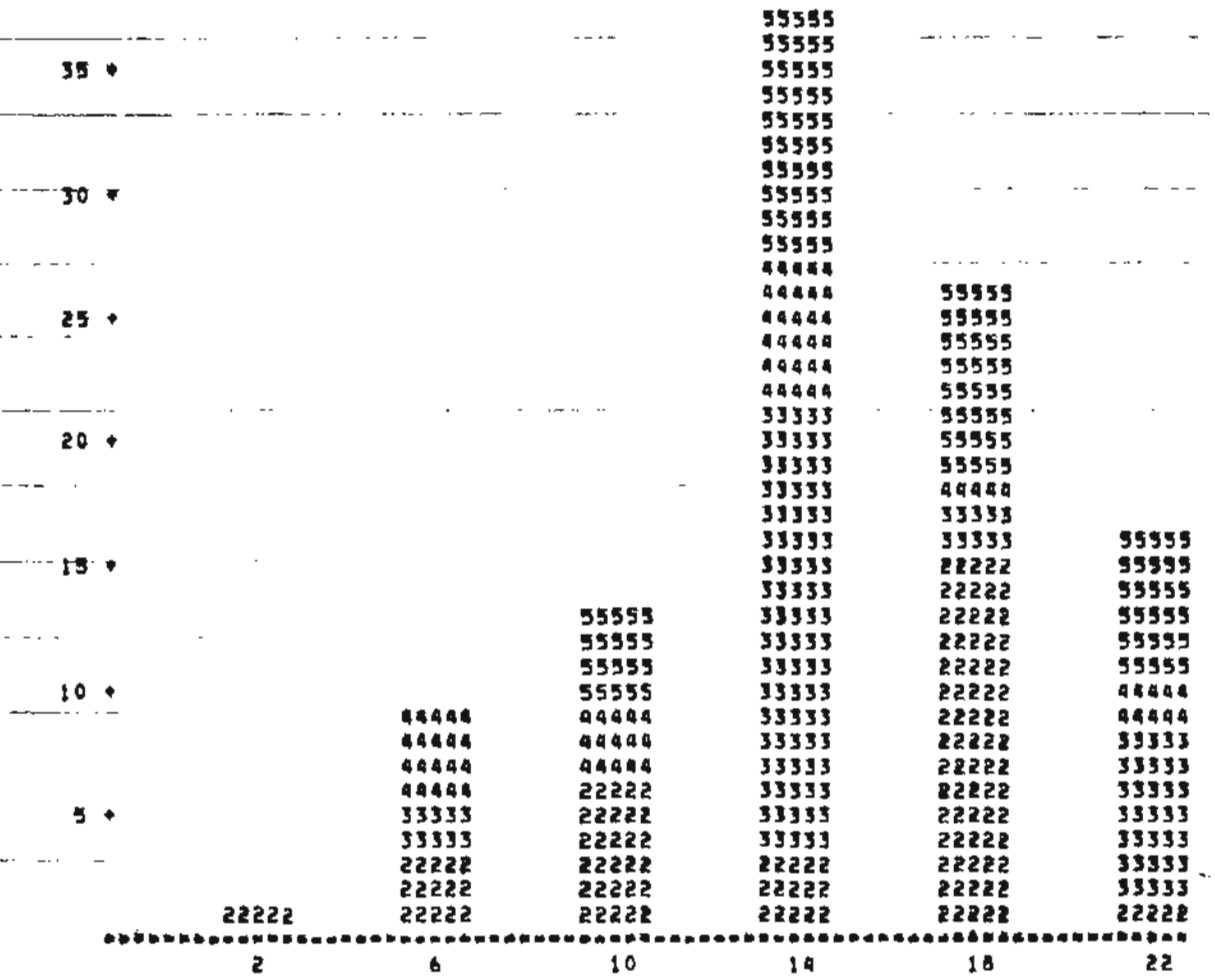
PERCENTAGE BAR CHART



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=APRIL

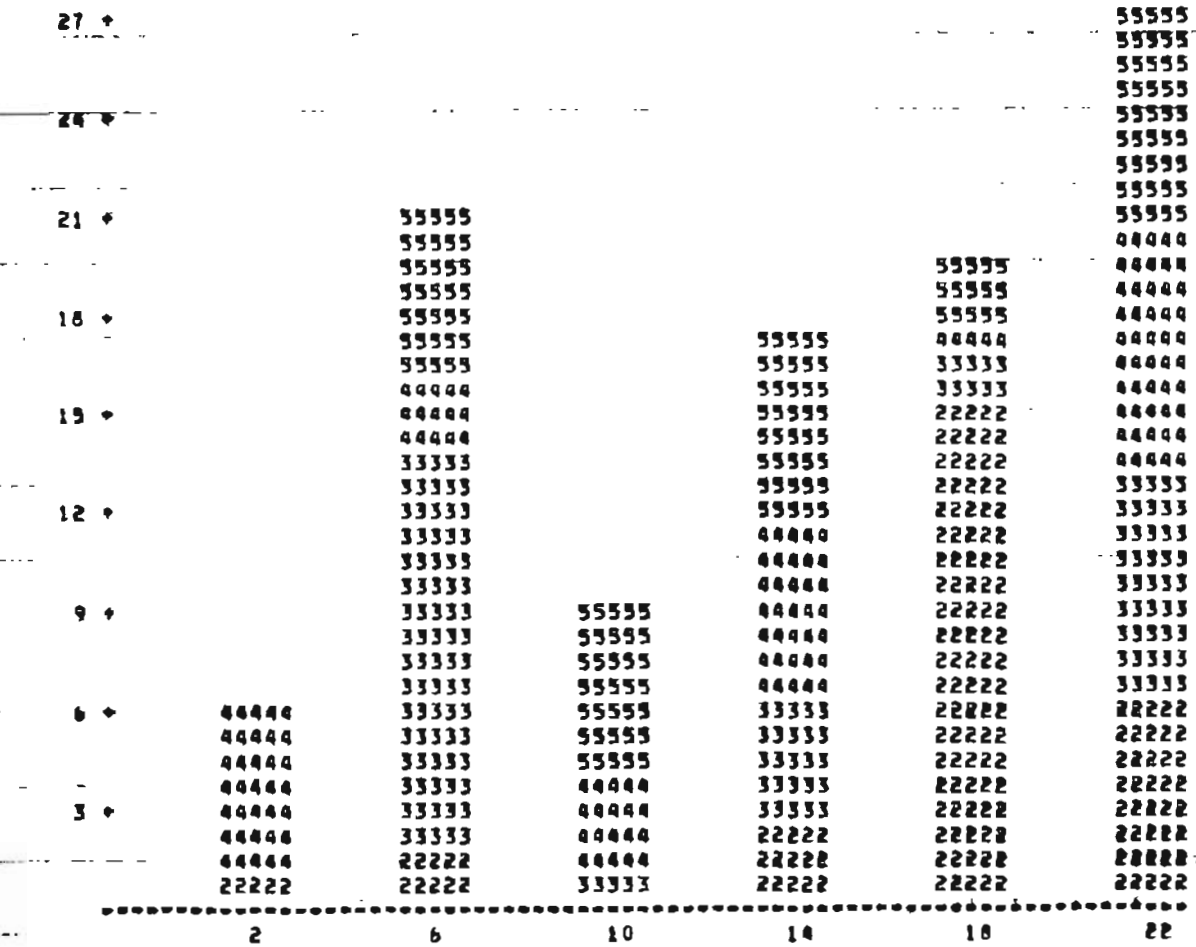
PERCENTAGE BAR CHART



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=MAY

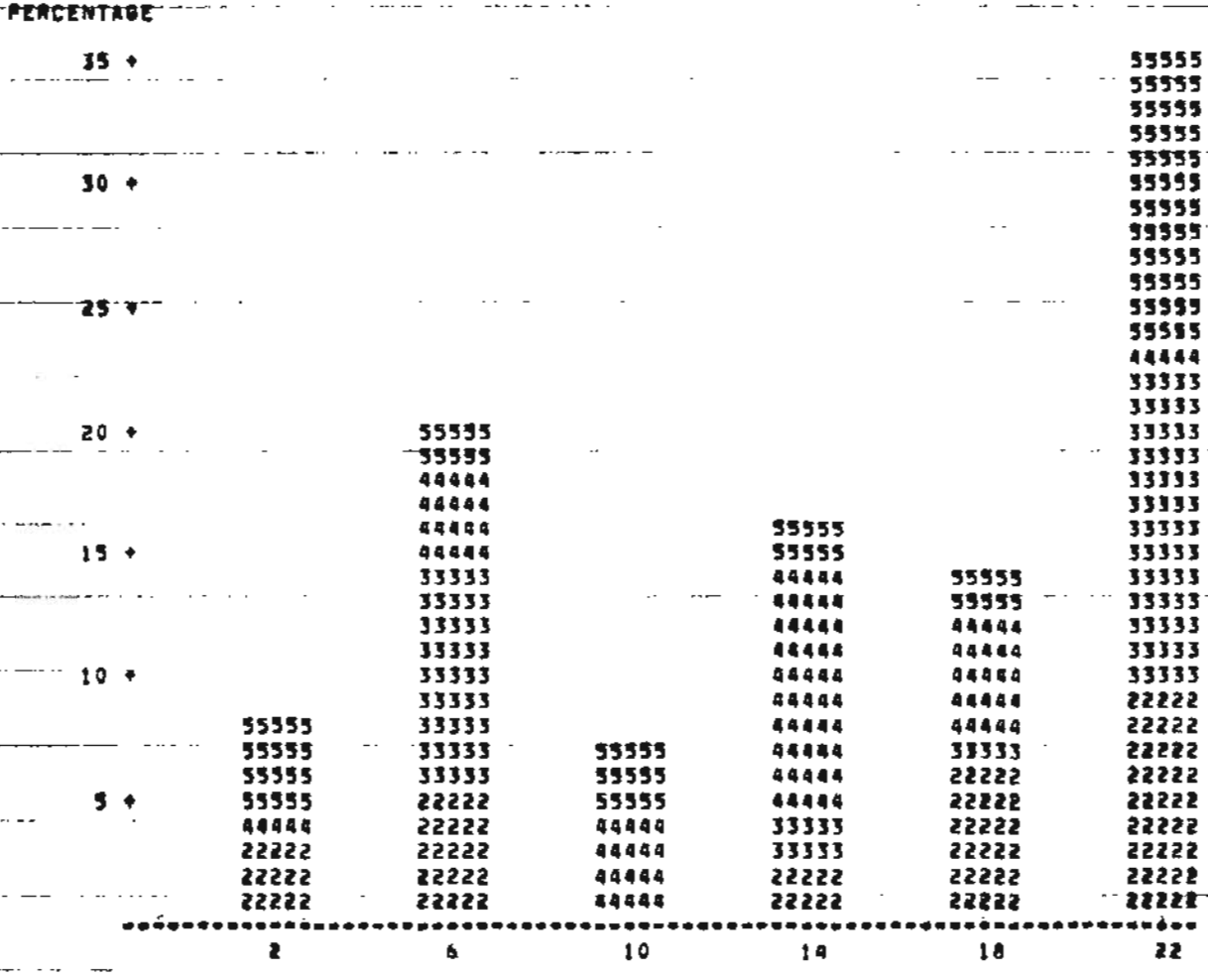
PERCENTAGE BAR CHART



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=JUNE

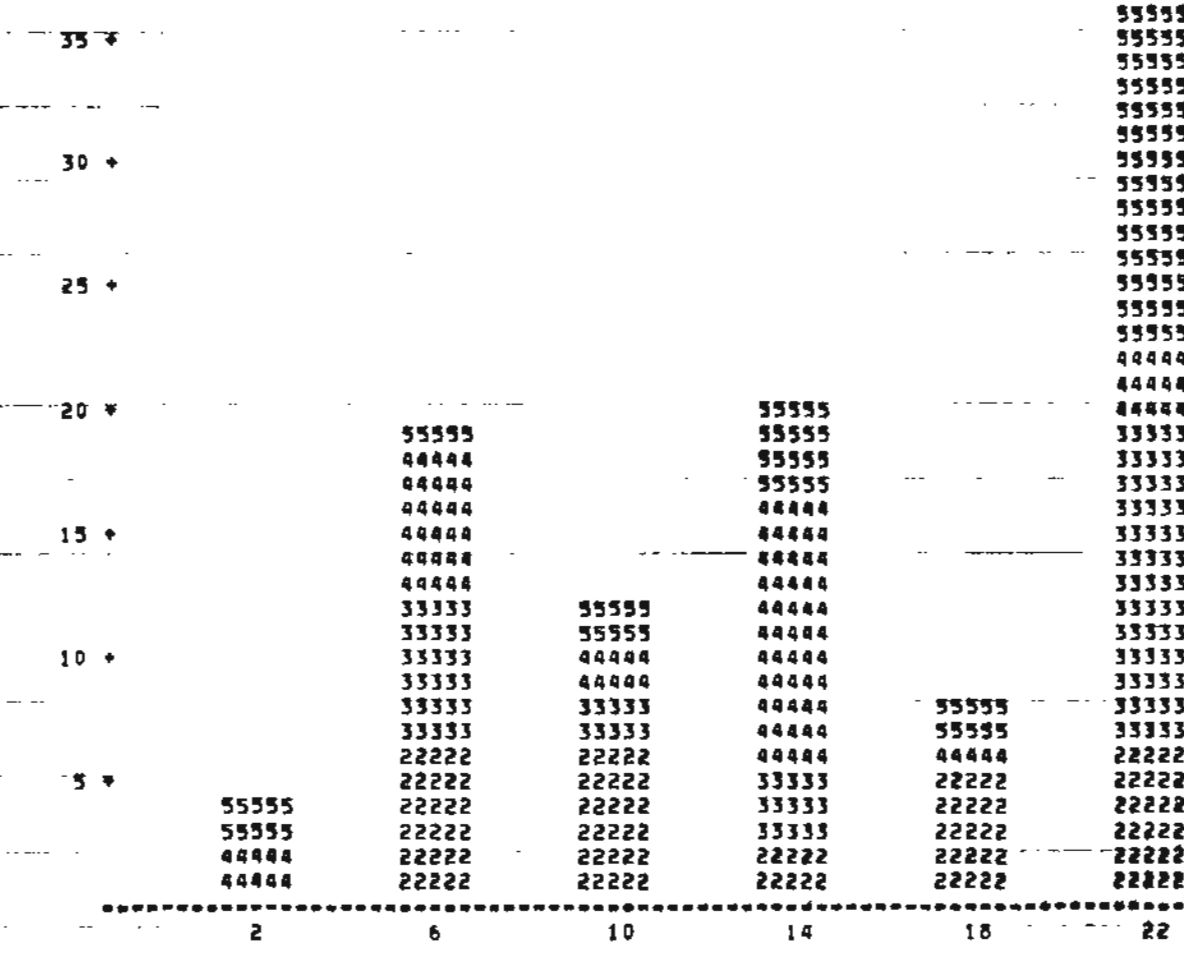
PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=JULY

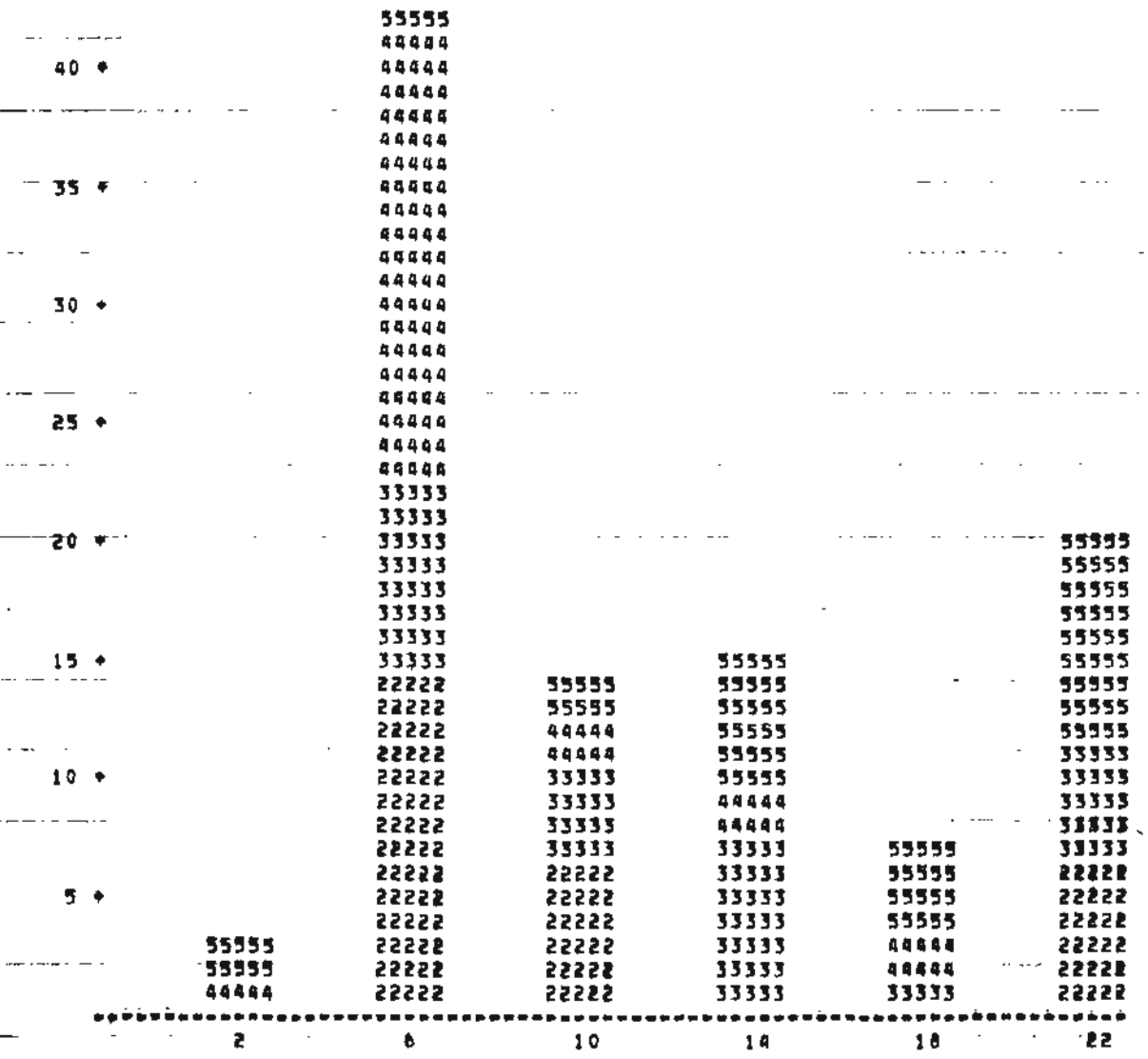
PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=AUGUST

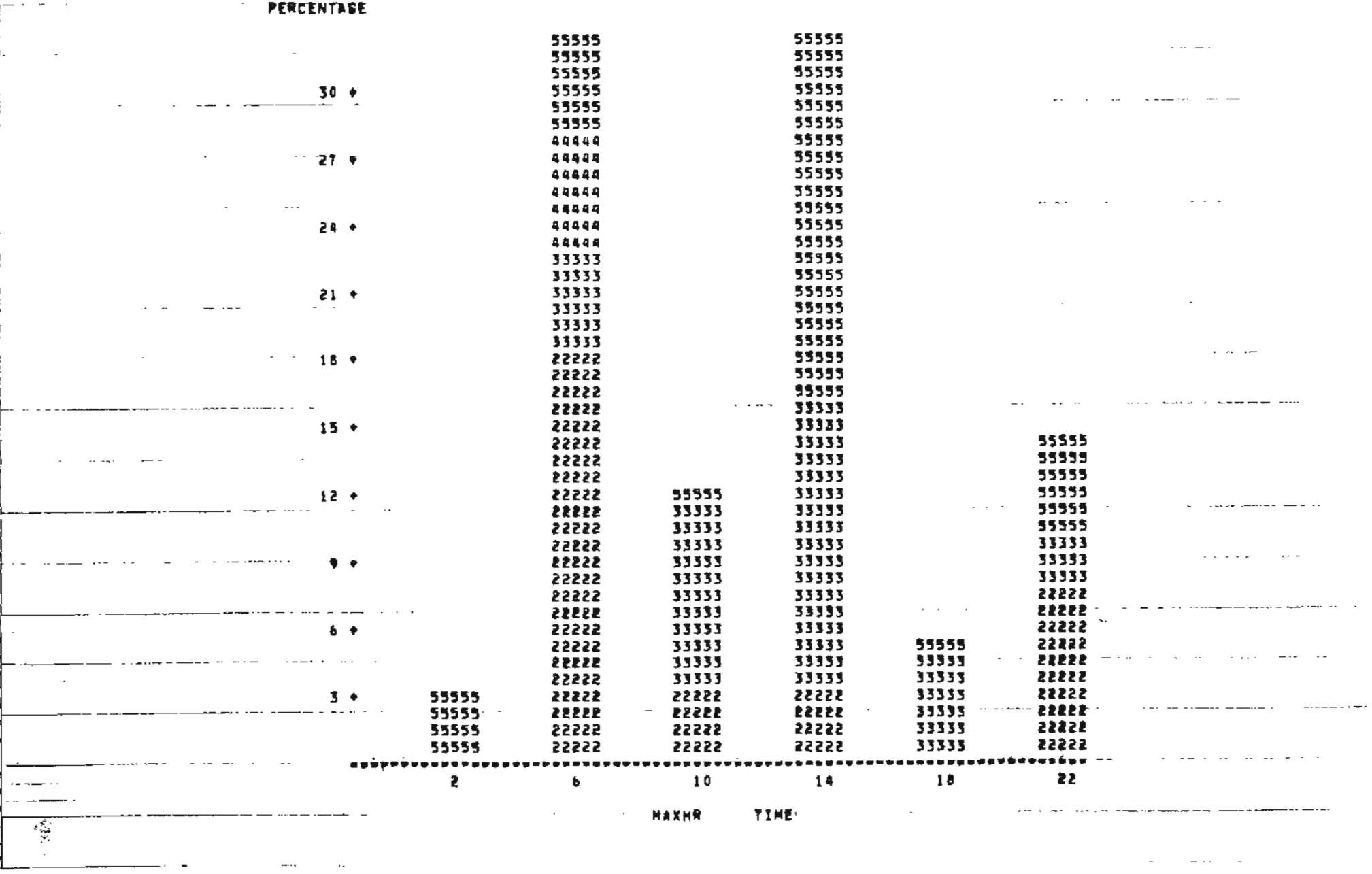
PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=SEPTEMBR

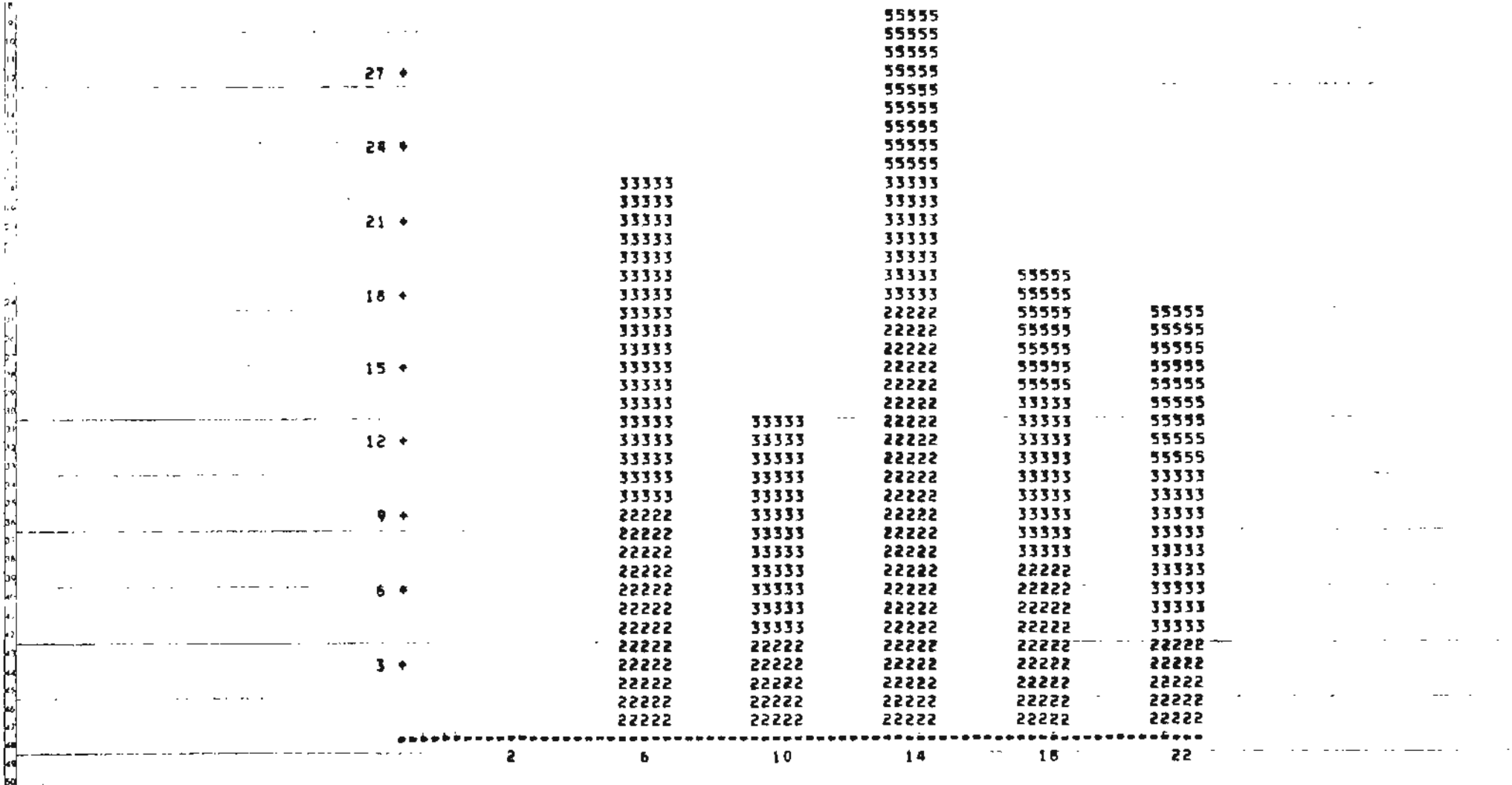
PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=OCTOBER

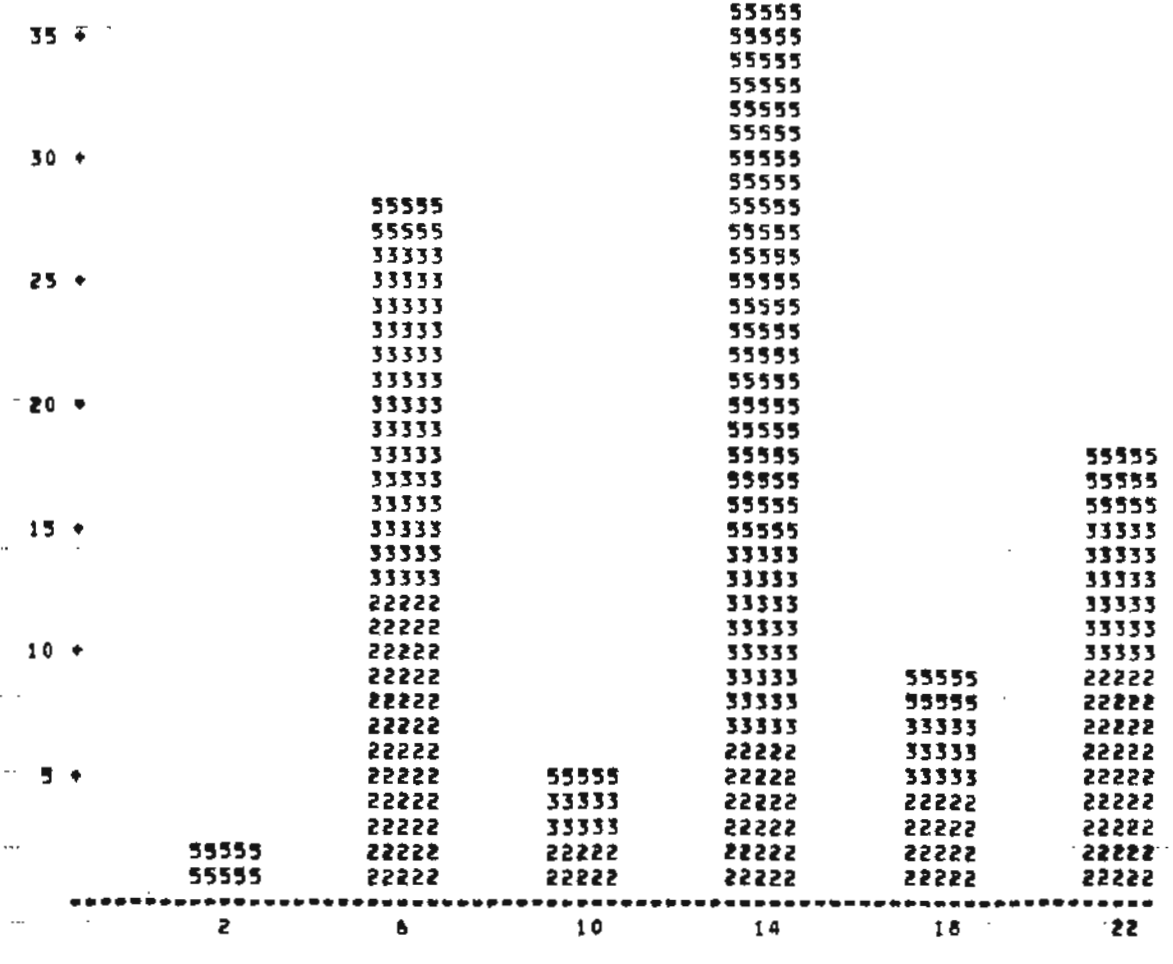
PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

MONTH=NOVEMBER

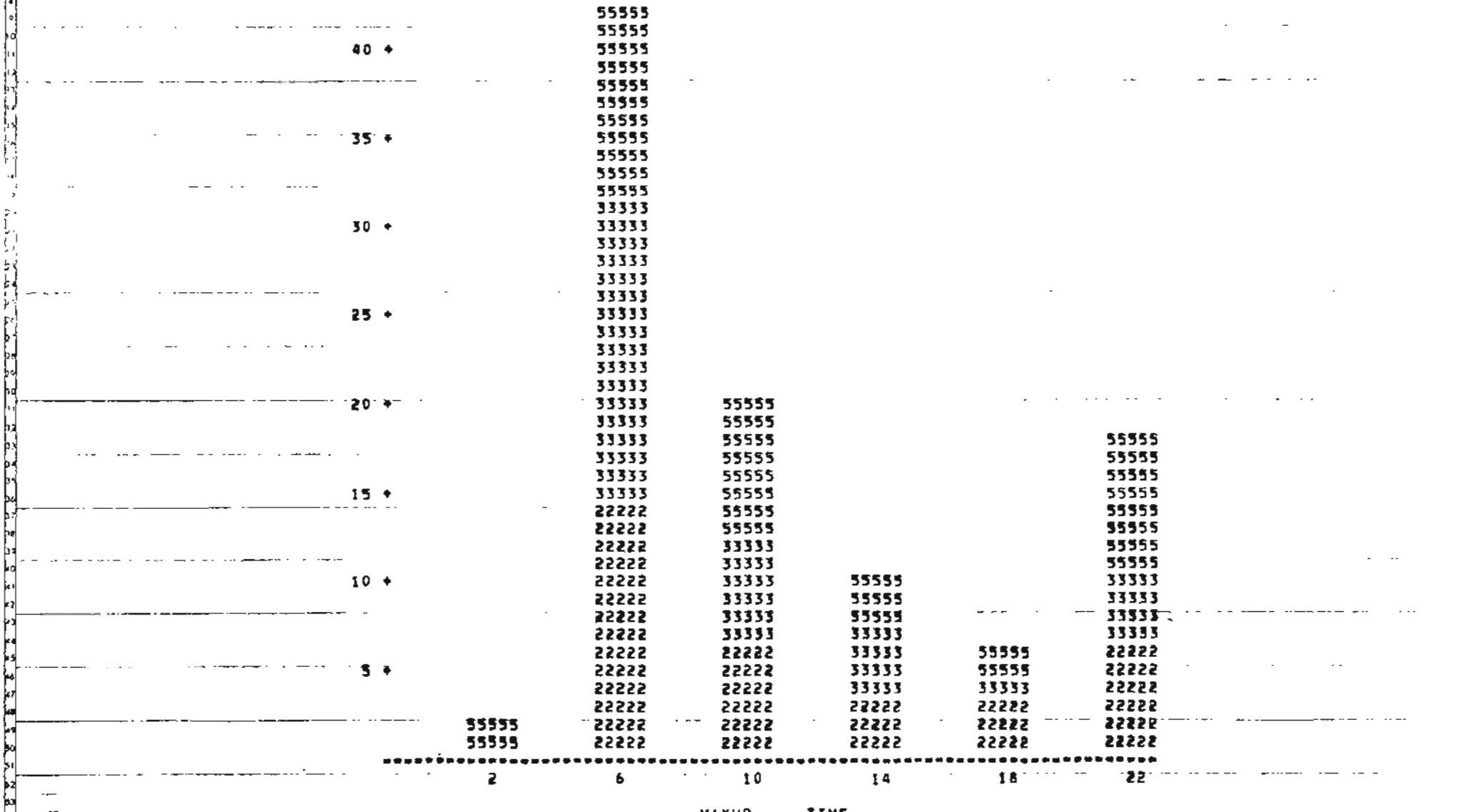
PERCENTAGE BAR CHART



DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
BY MONTH

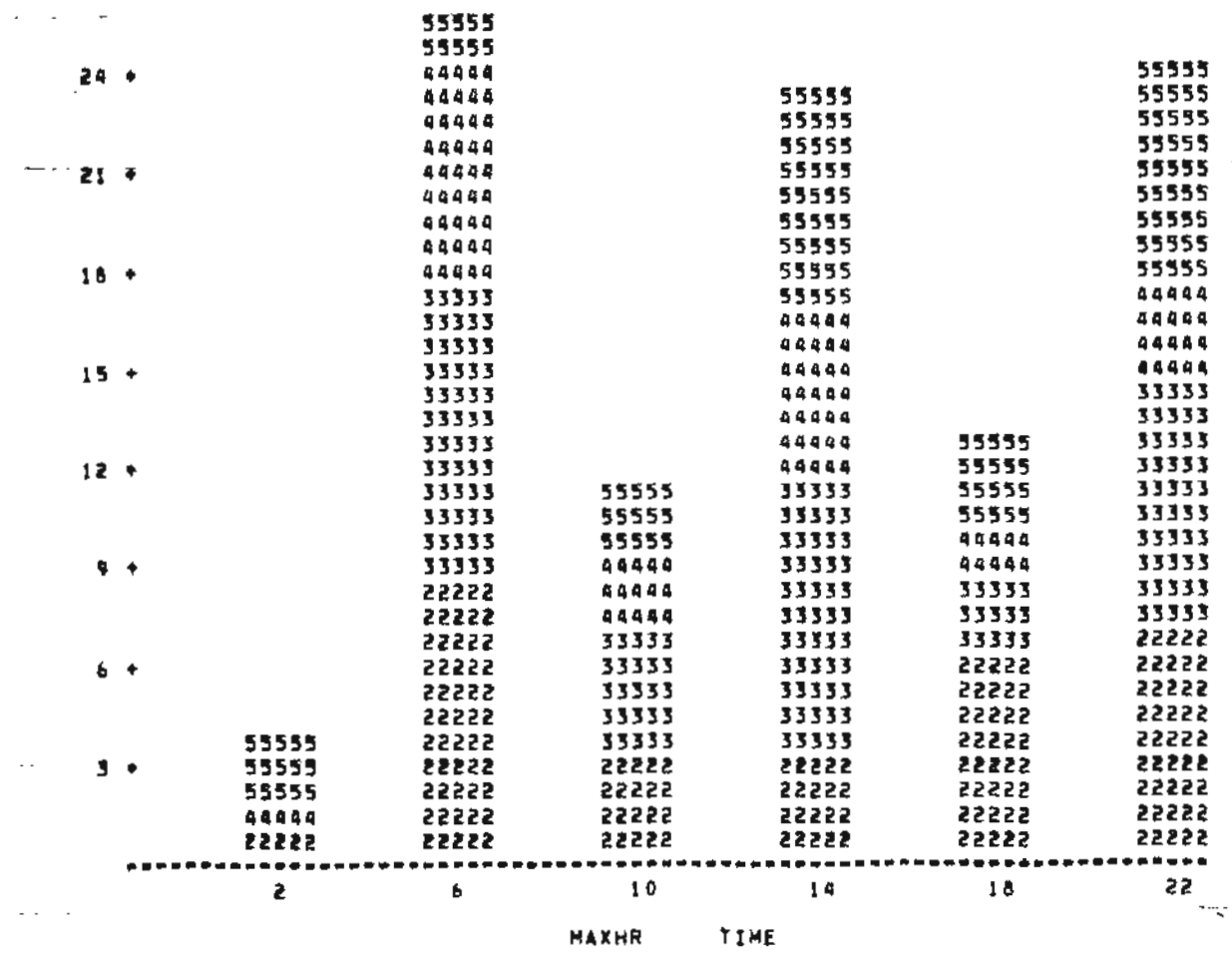
MONTH=DECEMBER

PERCENTAGE BAR CHART



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
4-HOURLY OCCURRENCE OF MAXIMAL EVENTS
FOR PERIOD OF RECORD

PERCENTAGE BAR CHART



HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=JANUARY

DAY	MAXIMUM	MINIMUM	AVERAGE
1	28	7.4	16.8000
2	30	7.9	17.3000
3	28	9.4	16.4667
4	23	9.9	14.3000
5	12	9.4	10.4667
6	22	9.4	16.8000
7	35	5.0	20.0000
8	42	5.7	21.5667
9	48	7.2	20.3667
10	37	6.1	17.0000
11	33	7.2	16.0667
12	28	8.4	21.1333
13	25	8.0	18.0000
14	19	9.4	14.1333
15	17	10.0	12.6667
16	13	7.5	10.1667
17	13	6.9	9.8333
18	13	7.0	9.5667
19	13	6.9	9.4000
20	20	7.9	12.3000
21	19	7.9	12.1000
22	17	7.9	12.6333
23	20	7.4	14.1333
24	25	6.4	15.1333
25	26	6.9	17.3000
26	27	7.0	18.3333
27	21	7.9	12.7000
28	17	6.5	10.3333
29	17	4.5	9.8000
30	15	4.0	8.7333
31	17	5.0	9.6000

MONTH=FEBRUARY

DAY	MAXIMUM	MINIMUM	AVERAGE
1	17.0	4.5	9.3000
2	17.0	6.4	11.1333
3	16.0	6.3	10.7333
4	15.0	6.4	9.4667
5	15.0	5.1	10.0333
6	15.0	5.5	10.1667
7	19.0	5.6	13.2000
8	17.0	6.1	12.7000
9	16.0	5.0	12.0000
10	21.0	5.0	11.0667
11	22.0	4.4	11.0667
12	26.0	3.5	11.8667
13	14.0	5.7	8.7000

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=FEBRUARY

DAY	MAXIMUM	MINIMUM	AVERAGE
14	14.0	5.4	8.3667
15	14.0	5.7	9.3667
16	16.0	5.7	10.5000
17	16.0	5.7	10.3667
18	16.0	5.7	9.5333
19	20.0	5.7	12.8500
20	17.0	6.1	11.5500
21	19.0	6.4	12.7000
22	25.0	5.7	15.3500
23	25.0	5.7	15.3500
24	19.0	5.7	12.3500
25	18.0	7.9	12.9500
26	20.0	9.6	14.8000
27	20.0	6.8	13.4000
28	17.0	6.1	11.5500
29	6.1	6.1	6.1000

MONTH=MARCH

DAY	MAXIMUM	MINIMUM	AVERAGE
1	17	5.7	11.3500
2	16	6.1	11.0500
3	16	7.5	11.7500
4	15	10.0	12.5000
5	16	16.0	16.0000
6	15	5.9	11.3000
7	15	5.9	10.6333
8	21	5.9	13.9667
9	23	15.0	19.0000
10	20	15.0	17.3333
11	15	10.0	13.0000
12	18	10.0	13.3333
13	19	7.9	12.1667
14	19	7.9	11.7333
15	18	7.9	11.4000
16	18	7.9	11.8333
17	19	5.9	11.5000
18	21	5.9	12.0333
19	20	5.9	11.4000
20	21	5.9	11.6000
21	25	7.5	13.4667
22	25	7.5	13.4667
23	22	6.8	12.2333
24	20	5.9	10.9000
25	19	5.9	10.5667
26	19	5.9	10.5667
27	22	5.9	11.5667
28	21	5.9	11.1000

DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=MARCH

DAY	MAXIMUM	MINIMUM	AVERAGE
29	21	5.9	11.2333
30	20	5.9	10.9000
31	19	5.4	9.2750

MONTH=APRIL

DAY	MAXIMUM	MINIMUM	AVERAGE
1	26	6.3	14.4250
2	21	6.1	15.7750
3	18	5.9	11.5750
4	18	5.4	8.9250
5	17	5.9	8.8000
6	17	5.7	10.1500
7	17	5.7	11.1500
8	17	5.7	10.1500
9	17	5.9	10.3250
10	16	5.9	9.5000
11	17	5.7	9.3250
12	26	5.7	14.3500
13	29	5.7	16.9250
14	17	5.7	10.1500
15	17	5.4	8.6500
16	16	5.7	8.4750
17	17	5.9	12.9667
18	42	5.9	21.6333
19	17	5.4	9.4333
20	17	5.4	9.4333
21	18	7.4	11.8000
22	18	7.4	11.8000
23	22	10.0	14.0000
24	22	7.9	14.6333
25	20	7.9	12.6333
26	21	7.9	13.6333
27	20	10.0	14.0000
28	20	10.0	13.3333
29	23	10.0	14.3333
30	20	10.0	13.3333

HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=MAY

DAY	MAXIMUM	MINIMUM	AVERAGE
1	22	10	15.00
2	21	13	16.00
3	23	12	17.75
4	21	11	16.00
5	24	20	21.00
6	24	20	21.00
7	20	18	19.50
8	37	20	25.00
9	37	18	28.00
10	51	18	29.50
11	51	15	28.50
12	38	15	24.75
13	30	15	22.25
14	32	15	22.00
15	42	16	30.25
16	57	18	34.75
17	57	18	31.50
18	36	21	26.25
19	27	21	23.75
20	29	15	21.50
21	26	18	22.00
22	32	18	25.00
23	32	19	24.25
24	39	13	25.00
25	35	13	23.50
26	300	12	94.25
27	112	10	46.25
28	73	15	37.50
29	56	15	34.75
30	71	10	36.50
31	72	10	37.75

MONTH=JUNE

DAY	MAXIMUM	MINIMUM	AVERAGE
1	83	8.9	47.225
2	125	10.0	62.250
3	148	8.9	59.725
4	134	8.9	57.975
5	449	8.9	143.475
6	141	7.6	57.650
7	73	8.9	38.475
8	56	8.9	32.975
9	81	7.6	38.900
10	127	15.0	53.750
11	104	10.0	47.290
12	65	19.0	38.000
13	51	20.0	30.333

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=JUNE

DAY	MAXIMUM	MINIMUM	AVERAGE
14	49	16.0	32.750
15	49	12.0	26.250
16	42	12.0	22.500
17	42	10.0	21.750
18	39	8.9	21.475
19	42	7.6	21.400
20	39	6.3	23.625
21	51	12.0	35.750
22	39	12.0	29.750
23	45	15.0	32.250
24	45	15.0	33.250
25	59	29.0	40.000
26	66	26.0	41.250
27	91	28.0	51.500
28	76	16.0	43.000
29	76	16.0	41.500
30	76	18.0	41.250

MONTH=JULY

DAY	MAXIMUM	MINIMUM	AVERAGE
1	49	18.0	31.250
2	122	16.0	49.500
3	66	14.0	36.000
4	189	12.0	64.750
5	50	10.0	28.750
6	35	8.9	22.225
7	39	7.6	27.400
8	35	6.3	22.625
9	32	5.1	19.275
10	35	4.0	17.500
11	32	4.0	16.000
12	29	4.0	14.500
13	26	4.0	13.250
14	29	2.9	13.725
15	45	2.9	18.975
16	39	4.0	17.750
17	42	4.0	16.900
18	75	4.0	24.750
19	108	4.0	31.875
20	52	2.9	16.850
21	45	0.5	14.500
22	45	1.7	14.625
23	39	0.7	12.775
24	32	1.7	11.925
25	29	2.2	10.925
26	29	4.0	11.950
27	26	4.0	10.600

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=JULY

DAY	MAXIMUM	MINIMUM	AVERAGE
28	26	1.7	10.525
29	23	1.7	10.200
30	20	4.0	11.150
31	25	5.1	15.600

MONTH=AUGUST

DAY	MAXIMUM	MINIMUM	AVERAGE
1	33	5.1	17.400
2	21	5.1	13.475
3	20	5.1	11.975
4	36	5.1	18.350
5	26	4.0	15.325
6	25	4.0	14.025
7	26	5.1	11.150
8	20	4.0	11.375
9	26	4.0	12.850
10	23	4.0	10.675
11	25	4.0	10.175
12	39	4.0	13.625
13	39	4.0	13.625
14	39	4.0	14.025
15	32	3.9	12.000
16	26	4.5	10.650
17	26	4.0	10.375
18	23	3.9	9.750
19	23	3.9	9.750
20	23	3.9	9.475
21	20	3.4	8.550
22	18	3.4	8.775
23	18	3.4	8.850
24	18	3.4	9.125
25	18	2.9	8.725
26	15	2.9	9.000
27	15	2.9	7.975
28	13	2.9	8.500
29	15	2.9	9.500
30	15	2.9	9.000
31	20	2.9	10.475

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=SEPTEMBR

DAY	MAXIMUM	MINIMUM	AVERAGE
1	18	2.9	9.7500
2	18	2.4	9.6250
3	20	2.9	10.2500
4	18	2.4	9.6250
5	47	2.4	17.3750
6	29	2.4	15.8667
7	25	2.4	15.1333
8	21	2.4	14.4667
9	33	1.9	16.6333
10	28	2.4	15.1333
11	25	2.4	13.4667
12	65	2.4	26.9000
13	153	5.7	57.3333
14	163	2.9	61.9667
15	168	2.4	62.8000
16	50	2.4	21.8000
17	112	2.4	42.5667
18	179	12.0	82.3333
19	119	5.7	50.2333
20	143	5.1	57.0333
21	121	4.5	53.5000
22	50	3.9	29.6333
23	28	3.9	19.3000
24	23	3.4	15.4667
25	57	2.9	26.6333
26	91	2.9	45.6333
27	172	5.1	67.0333
28	153	3.9	68.6333
29	27	8.5	17.7500
30	20	6.4	13.2000

MONTH=OCTOBER

DAY	MAXIMUM	MINIMUM	AVERAGE
1	16.0	8.5	12.2500
2	14.0	7.8	10.9000
3	12.0	6.4	9.2000
4	12.0	5.7	8.8500
5	12.0	5.1	8.5500
6	12.0	5.1	8.5900
7	10.0	4.5	7.2500
8	8.4	4.9	6.4500
9	8.2	5.7	6.9500
10	48.0	8.2	28.1000
11	30.0	20.0	25.0000
12	72.0	15.0	43.5000
13	24.0	12.0	18.0000
14	24.0	23.0	23.5000

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARSTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=OCTOBER

DAY	MAXIMUM	MINIMUM	AVERAGE
15	46.0	17.0	31.5000
16	33.0	28.0	30.5000
17	30.0	17.0	23.5000
18	22.0	14.0	17.0000
19	17.0	14.0	15.0000
20	15.0	12.0	13.0000
21	22.0	12.0	15.3333
22	16.0	12.0	13.3333
23	14.0	10.0	12.0000
24	13.0	10.0	11.6667
25	11.0	8.4	9.8000
26	18.0	6.7	11.5667
27	16.0	6.5	10.6000
28	10.0	7.0	8.5000
29	10.0	6.5	8.1000
30	8.5	6.1	7.4667
31	11.0	7.1	8.8667

MONTH=NOVEMBER

DAY	MAXIMUM	MINIMUM	AVERAGE
1	12.0	8.5	9.8667
2	8.5	7.5	8.1667
3	8.5	7.5	8.1667
4	8.5	7.0	8.0000
5	8.5	7.0	7.5333
6	13.0	6.5	9.3333
7	42.0	7.0	19.1667
8	36.0	8.5	19.1667
9	41.0	7.5	22.1667
10	66.0	8.0	39.3333
11	31.0	8.5	20.5000
12	28.0	14.0	20.6667
13	16.0	12.0	14.3333
14	14.0	10.0	12.0000
15	13.0	10.0	11.3333
16	12.0	10.0	10.6667
17	10.0	8.5	9.4000
18	10.0	8.5	9.2667
19	17.0	8.5	11.3333
20	30.0	8.5	15.6667
21	32.0	8.5	18.1667
22	48.0	8.5	25.1667
23	34.0	8.5	19.5000
24	16.0	8.5	12.5000
25	20.0	8.8	13.6000
26	32.0	13.0	24.6667
27	30.0	18.0	24.6667

ONR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX OF MAXIMAL FLOW EVENTS
FROM 4 YEARS DATA

MONTH=NOVEMBER

DAY	MAXIMUM	MINIMUM	AVERAGE
28	124	12	51.6667
29	165	16	68.3333
30	58	14	32.6667

MONTH=DECEMBER

DAY	MAXIMUM	MINIMUM	AVERAGE
1	54	13.0	32.6667
2	37	20.0	26.3333
3	29	8.5	16.8333
4	24	5.1	13.3667
5	22	3.6	12.5333
6	28	5.1	17.7000
7	29	3.6	17.5333
8	42	18.0	30.0000
9	62	15.0	33.6667
10	65	20.0	38.0000
11	73	17.0	40.6667
12	31	15.0	24.3333
13	26	13.0	19.3333
14	29	12.0	19.6667
15	25	10.0	19.0000
16	22	8.6	14.8667
17	16	7.2	11.7333
18	24	5.8	14.9333
19	22	13.0	17.0000
20	40	16.0	24.6667
21	37	19.0	27.3333
22	24	15.0	21.0000
23	20	14.0	17.3333
24	18	12.0	14.0000
25	16	8.5	12.5000
26	29	16.0	21.0000
27	32	13.0	21.6667
28	69	13.0	32.6667
29	55	13.0	27.3333
30	35	10.0	18.6667
31	28	6.8	15.6000

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HARBTOT DATA REPORT-

MIDWAY CREEK NEAR OLD HARBOR

DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS

H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JANUARY

DAY	AVERAGE	MIN	MAX
		9,60125	6621,923
1	322,60		
2	332,20		
3	316,20		
4	274,60		
5	200,99		
6	322,60		
7	384,05		
8	414,13		
9	391,09		
10	326,44		
11	308,52		
12	405,81		
13	345,64		
14	271,40		
15	243,23		
16	195,23		
17	188,82		
18	183,70		
19	180,50		
20	236,19		
21	238,35		
22	242,59		
23	271,40		
24	290,60		
25	332,20		
26	352,09		
27	243,87		
28	198,43		
29	188,18		
30	167,70		
31	184,34		

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=FEBRUARY

DAY	AVERAGE	MIN	MAX
		9.60125	6621.923
1	178.58		
2	213.79		
3	206.11		
4	181.78		
5	192.67		
6	195.23		
7	253.47		
8	243.87		
9	230.43		
10	212.51		
11	212.51		
12	227.87		
13	167.06		
14	160.66		
15	179.86		
16	201.63		
17	199.07		
18	183.06		
19	246.75		
20	221.79		
21	285.87		
22	294.76		
23	294.76		
24	237.15		
25	248.67		
26	284.20		
27	257.31		
28	221.79		
29	117.14		

ONR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBIDT DATA REPORT=
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MARCH

DAY	AVERAGE	MIN	MAX
		9,60125	8621,923
1	217.93		
2	212.19		
3	225.63		
4	240.03		
5	307.24		
6	216.99		
7	204.19		
8	268.19		
9	364.85		
10	332.84		
11	249.63		
12	256.03		
13	233.63		
14	225.31		
15	218.91		
16	227.23		
17	220.83		
18	231.07		
19	218.91		
20	222.75		
21	258.59		
22	258.59		
23	234.91		
24	209.31		
25	202.91		
26	202.91		
27	222.11		
28	213.15		
29	215.71		
30	209.31		
31	178.10		

HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=APRIL

DAY	AVERAGE	MIN 9,60125	MAX 8621.923
1	277.00		
2	302.92		
3	222.27		
4	171.38		
5	168.98		
6	194.91		
7	214.11		
8	194.91		
9	198.27		
10	182.42		
11	179.06		
12	275.56		
13	325.00		
14	194.91		
15	169.10		
16	162.74		
17	248.99		
18	413.81		
19	181.14		
20	181.14		
21	220.59		
22	206.59		
23	168.84		
24	201.00		
25	242.59		
26	261.79		
27	230.84		
28	256.03		
29	875.24		
30	250.03		

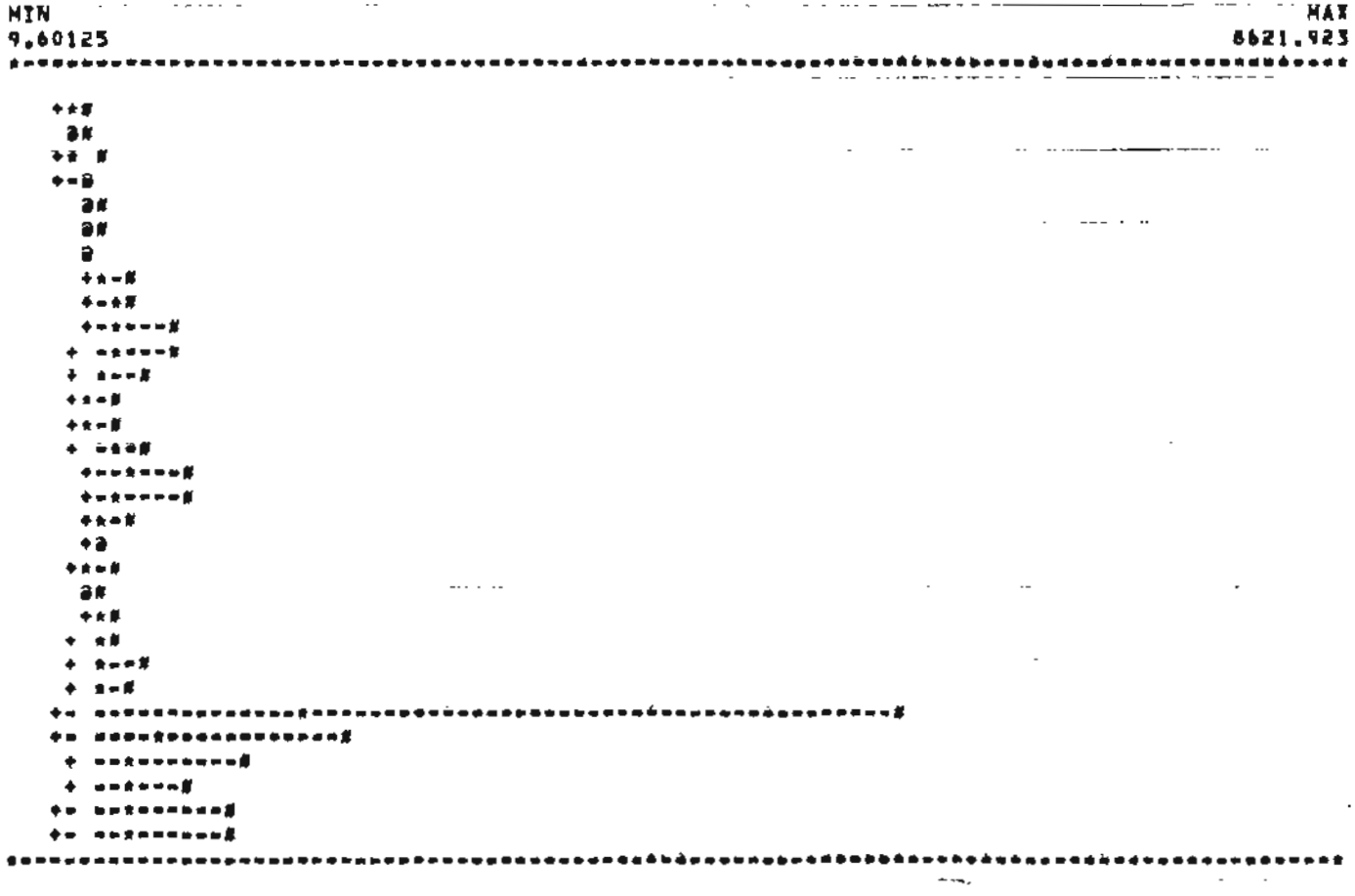
HARBTOT DATA REPORT-
MIDNAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=MAY

DAY	AVERAGE
1	288.04
2	307.24
3	340.80
4	345.64
5	403.25
6	403.25
7	374.45
8	480.06
9	537.67
10	566.47
11	547.27
12	475.26
13	427.26
14	422.46
15	580.88
16	667.29
17	604.88
18	504.07
19	456.06
20	412.85
21	422.46
22	441.66
23	489.66
24	480.06
25	451.26
26	1809.84
27	888.12
28	720.09
29	667.29
30	700.89
31	724.89

MIN
9.60125

MAX
8621.923



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JUNE

WAY	AVERAGE	MIN	MAX
		9,60125	8621.923
1	906.84		
2	1195.36		
3	1146.87		
4	1113.26		
5	2755.08		
6	1107.02		
7	738.82		
8	633.20		
9	746.98		
10	1032.13		
11	907.32		
12	729.70		
13	582.48		
14	628.88		
15	504.07		
16	432.06		
17	417.65		
18	412.37		
19	410.93		
20	457.50		
21	688.49		
22	576.87		
23	619.28		
24	538.48		
25	708.10		
26	792.10		
27	988.93		
28	825.71		
29	796.90		
30	792.10		

DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=JULY

DAY	AVERAGE	MIN	MAX
		9.60125	8821.923
1	600.08		
2	950.52		
3	691.29		
4	1243.36		
5	552.07		
6	426.78		
7	526.15		
8	430.30		
9	370.13		
10	336.04		
11	307.24		
12	278.84		
13	254.43		
14	283.59		
15	364.37		
16	340.84		
17	324.52		
18	479.26		
19	612.08		
20	323.96		
21	270.44		
22	280.84		
23	248.31		
24	228.99		
25	209.79		
26	229.47		
27	205.99		
28	208.11		
29	195.87		
30	214.11		
31	299.96		

DNR-DIV, GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=AUGUST

DAY	AVERAGE	MIN	MAX
		9.60125	8621.923
1	334.12		
2	258.75		
3	229.95		
4	352.37		
5	294.28		
6	269.32		
7	214.11		
8	218.43		
9	246.75		
10	204.99		
11	195.39		
12	261.63		
13	261.63		
14	269.32		
15	230.43		
16	204.81		
17	199.23		
18	187.22		
19	187.22		
20	181.94		
21	184.18		
22	188.80		
23	169.84		
24	179.22		
25	167.54		
26	172.82		
27	153.14		
28	163.22		
29	182.42		
30	172.82		
31	201.15		

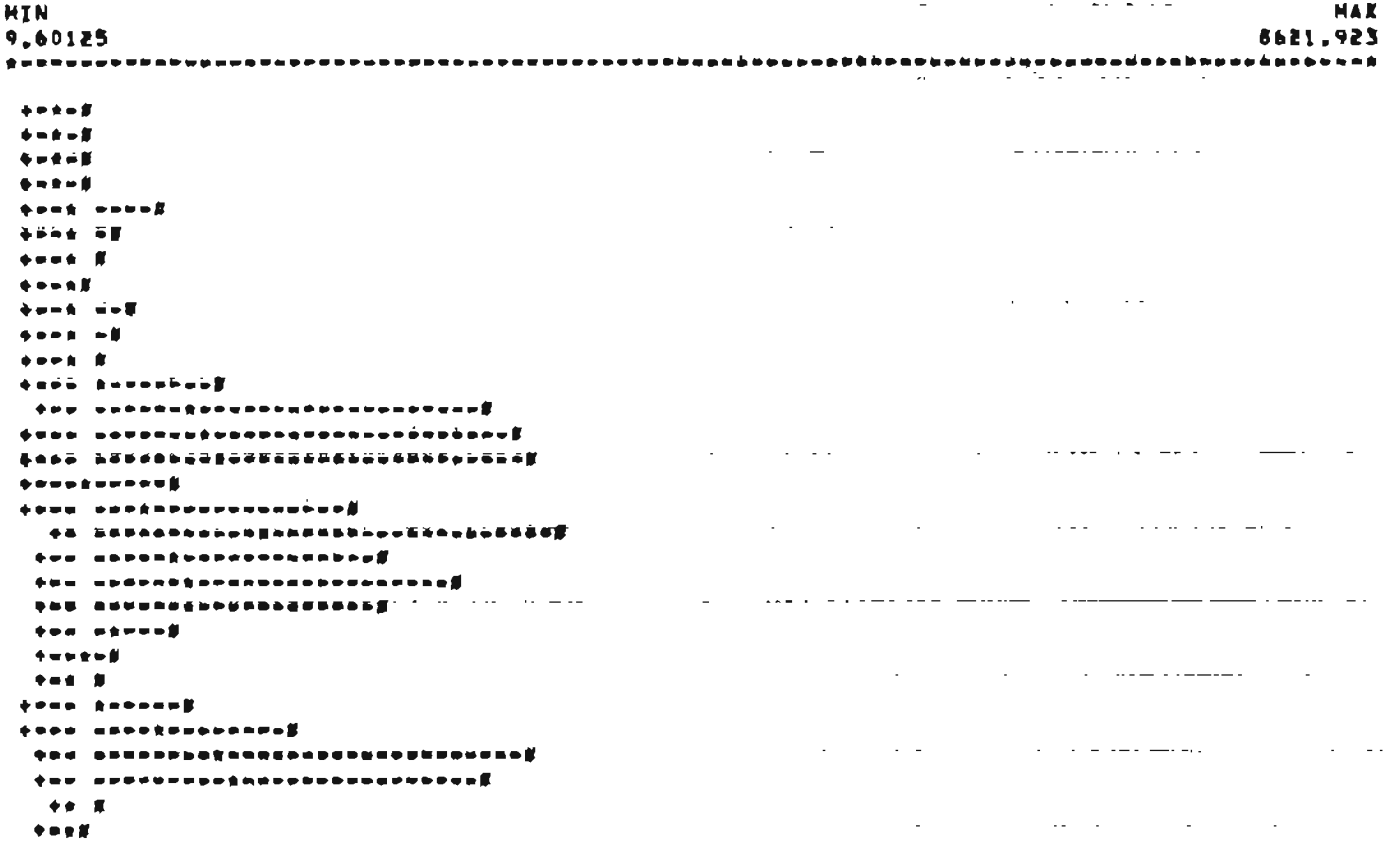
DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=SEPTEMBR

DAY	AVERAGE
1	187.22
2	184.82
3	196.83
4	184.82
5	333.64
6	297.00
7	290.60
8	277.80
9	319.40
10	290.60
11	298.59
12	516.55
13	1100.94
14	1189.91
15	1209.92
16	418.61
17	817.39
18	1581.01
19	984.61
20	1095.18
21	1027.33
22	869.03
23	378.61
24	297.00
25	511.43
26	876.27
27	1287.21
28	1317.93
29	340.84
30	253.87

MIN
9.60125

MAX
8621.923



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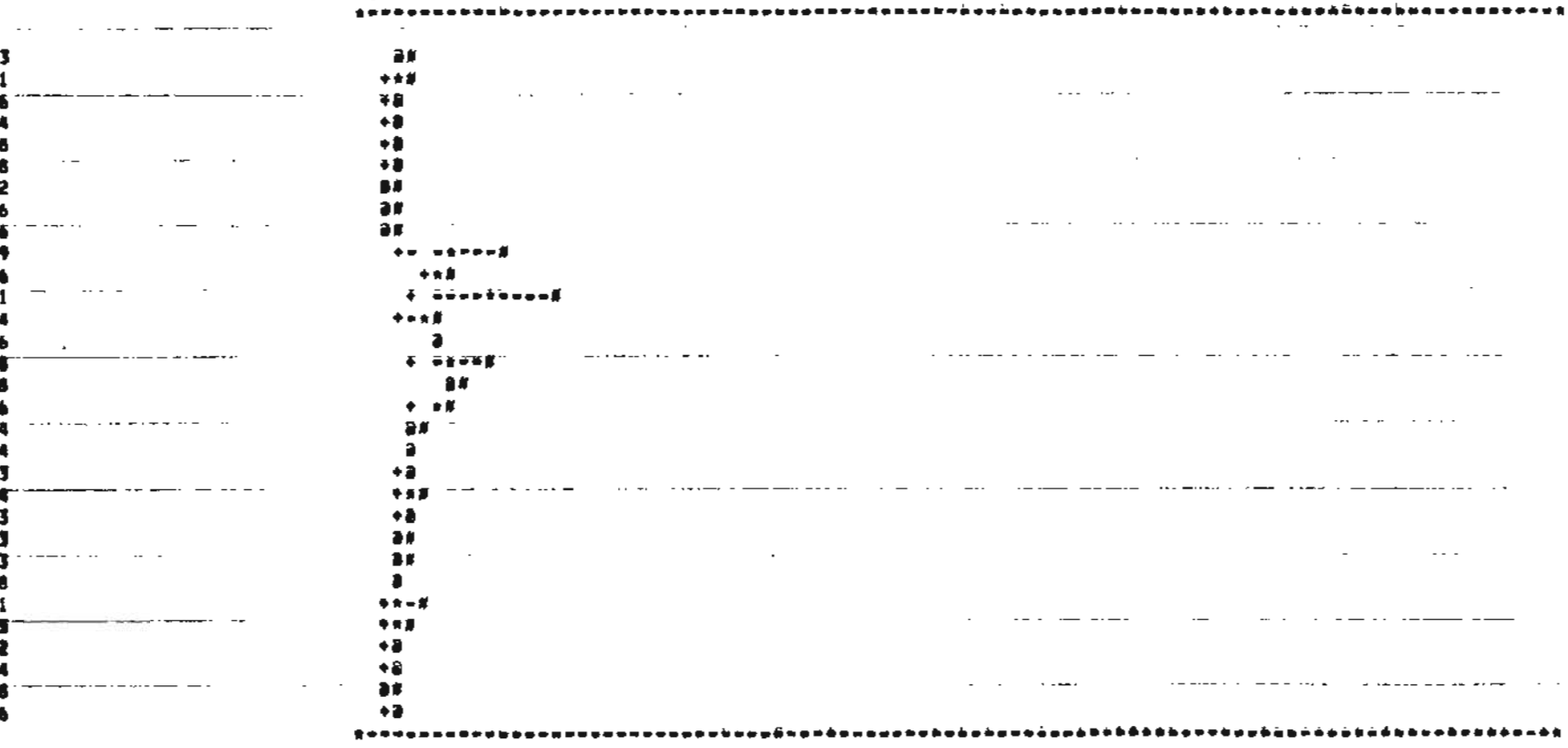
HARBTOT DATA REPORT-
MIDWAY CREEK NEAR OLD HARBOR
DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=OCTOBER

DAY	AVERAGE
1	235.23
2	209.31
3	176.66
4	169.94
5	164.18
6	164.18
7	139.22
8	123.86
9	133.46
10	539.59
11	480.06
12	835.31
13	345.64
14	451.26
15	604.88
16	585.68
17	451.26
18	326.44
19	288.04
20	249.63
21	296.46
22	256.03
23	236.43
24	226.03
25	188.18
26	222.11
27	203.95
28	163.82
29	155.94
30	143.38
31	170.26

MIN 9.60125 MAX 8621.923



DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS 15133 FRIDAY, MAY 9, 1986 97

HARBTOT DATA REPORT-

MIDWAY CREEK NEAR OLD HARBOR

DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS

H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=NOVEMBER

DAY	AVERAGE	MIN 9.60125	MAX 8621.923
1	189.46		
2	156.82		
3	156.82		
4	153.62		
5	144.66		
6	179.22		
7	368.05		
8	368.05		
9	425.66		
10	755.30		
11	393.65		
12	396.85		
13	275.24		
14	230.43		
15	217.63		
16	204.83		
17	180.50		
18	177.94		
19	217.63		
20	300.84		
21	348.85		
22	483.26		
23	374.45		
24	240.03		
25	261.15		
26	473.66		
27	473.66		
28	992.13		
29	1318.17		
30	627.28		

HARBTOT DATA REPORT-

MIDWAY CREEK NEAR OLD HARBOR

DAILY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS

H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH=DECEMBER

DAY	AVERAGE	MIN 9.60125	MAX 8621.923
1	627.28		
2	505.67		
3	323.24		
4	256.67		
5	240.67		
6	339.88		
7	336.66		
8	576.06		
9	846.48		
10	729.70		
11	780.90		
12	467.26		
13	371.25		
14	377.65		
15	364.85		
16	285.48		
17	225.31		
18	288.76		
19	326.44		
20	473.66		
21	524.87		
22	403.25		
23	332.84		
24	260.84		
25	240.03		
26	403.25		
27	416.05		
28	627.28		
29	524.87		
30	398.45		
31	299.56		

DNR-DIV. GEOLOGICAL AND GEOPHYSICAL SURVEYS 15:34 FRIDAY, MAY 9, 1986 99

HARBTOT DATA REPORT-

MIDWAY CREEK NEAR OLD HARBOR

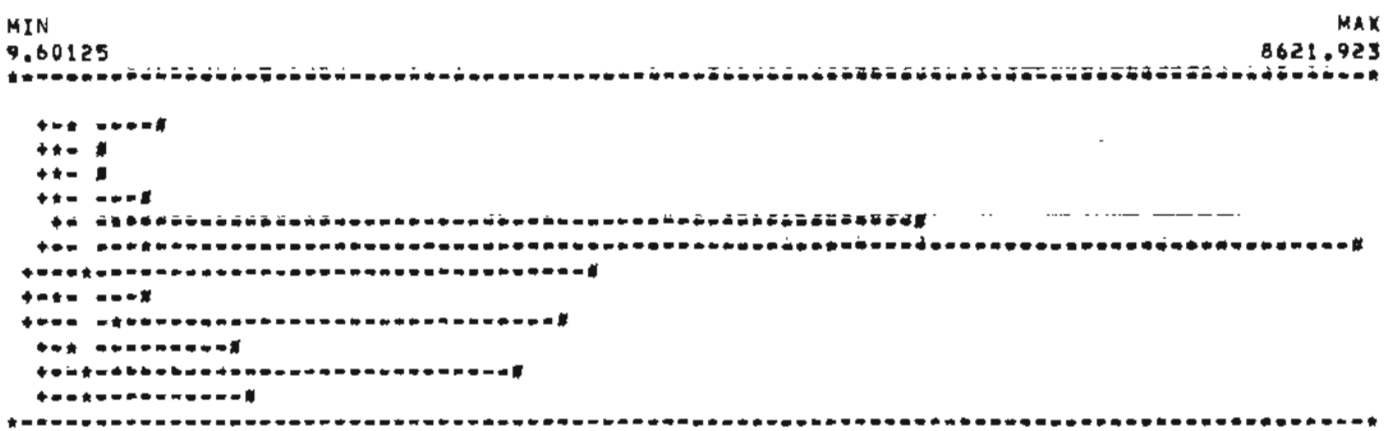
MONTHLY MIN,MEAN & MAX POWER FROM MAXIMAL EVENTS

H=273FT,E=83%,Q=FLOW & P=QHE/11.8

MONTH	AVERAGE
JANUARY	275.73
FEBRUARY	215.20
MARCH	234.55
APRIL	231.06
MAY	549.79
JUNE	813.19
JULY	395.71
AUGUST	215.89
SEPTEMBR	604.09
OCTOBER	275.86
NOVEMBER	369.33
DECEMBER	417.46

MIN 9.60125

MAX 8621.923



HARBTDT DATA REPORT.
MIDWAY CREEK NEAR OLD HARBOR
QUARTERLY MAXIMAL EVENTS
H=273FT,E=83%,Q=FLOW & P=OHE/11.8

QUARTER	MIN	MAX
	9.60125	8621.923
FIRST_QUARTER		
SECOND_QUARTER		
THIRD_QUARTER		
FOURTH_QUARTER		