#### Houghton Lake Dam Data for February 2024 Highlighted day indicates change in boards and or gates/ GAGE highlight indicates seiche event

Summer Level 8.10 Winter Level 7.60

Yellow highlighted column indiciates incorrect board count found on 3/12/24

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY #3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	RAIN	SNOW	GAGE
	% open, boards in	% open, boards in	% open, boards in	% open, boards in	% open, boards in	% open, boards in			
1	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.02	0.0	7.90
2	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.93
3	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.93
4	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
5	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.92
6	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
7	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
8	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
9	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.08	0.0	7.93
10	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.01	Т	7.93
11	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
12	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.94
13	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	T	7.90
14	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
15	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.37	4.3	7.93
16	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.04	1	7.94
17	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.01	0.2	7.95
18	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	T	7.94
19	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.94
20	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.94
21	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
22	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.92
23	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.89
24	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.89
25	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.91
26	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.91
27	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.89
28	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.93	0.3	7.61
29	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	T	T	7.90
30									
31									

## Houghton Lake Dam Data for January 2024 Highlighted day indicates change in boards and or gates/ GAGE highlight indicates seiche event

Summer Level 8.10 Winter Level 7.60

Yellow highlighted column indiciates incorrect board count found on 3/12/24

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY #3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	RAIN	SNOW	GAGE
	% open, boards in	% open, boards in	% open, boards in	% open, boards in	% open, boards in	% open, boards in			
1	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
2	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.96
3	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.92
4	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.96
5	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.94
6	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.94
7	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.94
8	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	0.0	7.92
9	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.35	3.0	7.93
10	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.10	1.0	7.95
11	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.08	1.1	7.96
12	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.38	4.0	7.95
13	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.45	5.8	8.01
14	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	0.08	0.9	8.02
15	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	8.02
16	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	8.00
17	67%, 2 boards in	100%	33%, 4/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	8.00
18	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.97
19	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.01	0.2	7.97
20	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.96
21	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.96
22	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	Т	7.96
23	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.07	0.7	7.95
24	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	Т	0.0	7.93
25	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
26	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
27	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.00	0.0	7.93
28	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	T	Т	7.92
29	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	T	Т	7.91
30	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.03	0.2	7.93
31	67%, 2 boards in	100%	67%, 2/6 boards in	PLATE	PLATE	67%, 2 boards in	0.01	Т	7.93

# Houghton Lake Dam Data for <u>Secember</u> 2023

Summer Level 8.10 Winter Level 7.60 Spillway #3 = Total of 7 Boards

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY #3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	DAIN	r Nou	
	% OF GATE OPEN	% OF GATE OPEN	BOARDS IN	% OF GATE OPEN	% OF GATE OPEN	% OF GATE OPEN	RAIN	SNOW	GAGE
1	100%	100%	2/5	9 0/2	1000	100 %			8.00
2	10000	100 00	2/5	0%	Dajo	Isa sia			8,00
3	100 %	100 %	2/5	0%	0010	10000			8.00
4	10000	100 %	2/5	0 %	Doin	10090			8,01
5	180 %	100 90	2/5	Dola	0%	100 90			8,00
6	10000	100%	2/5	040	0%	100%			8.00
7	100 90	100%	2/5	0%	00%	10000			8.00
8	100%	100%	2/5	0%	0%	100%			800
9	100%	100%	2/5	0%	0%	100%			8,00
10	100%	100 %	215	0%	0%	100%	7.	6	8.00
11	100%	100%	215	0%	0%	1000/6			4,00
12	100%	100%	215	0%	0%	100%			7.92
13	100%	100%	215	0%	0%	100%			7.94
14	100%	100%	215	0%	0%	100%			795
15	100%	100%	2/5	0%	0%	100%			7.96
16	100%	100%	2.15	0%	0%	100%			7.96
17	100%	100%	215	0%	0%	100%			7,94
18	100%	100%	215	0%	0%	100%	_	Er.	7.83
19	100%	100%	215	0%	0%	100%	y/EII		2,99
20	100%	100%	215	0%	0%	100%			7,93
21	100%	100%	215	0%	0%	100%			7.96
22	100%	100%	2/5	0%	0%	100%			7.93
23	100%	100%	215	0%	0%	100%			7,93
24	100%	100%	215	0%	0%	100%			794
25	100%	100%	45	0%	0%	100%			7.93
26	100%	100%	2/5	0%	0%	100%	L		7.93
27	100%	100%	215	0%	0%	100%	11		7.85
28	100%	100%	2/5	0%	0%	100%			7.96
29	100%	100%	215	0% 0%	0%	100%			7.91
30	100%	100%	45	0%	0%	100%			7.96 7.91 7.98
31	100%	100%	45	6%	0%	100%			7.98

## Houghton Lake Dam Data for November 2023

Summer Level 8.10 Winter Level 7.60 Spillway #3 = Total of 7 Boards

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY #3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	RAIN	SNOW	GAGE
	% OF GATE OPEN	% OF GATE OPEN	BOARDS IN	% OF GATE OPEN	% OF GATE OPEN	% OF GATE OPEN			
1	100%	100 %	2/5	0%	0%	180 %			8,13
2	100 %	180 %	2/5	0%	0 %	100 %			8.17
3	100 %	180 010	215	10 %	0'0/0	100 %			8.14
4	100 010	100 %	2/5	0 %	00%	100 90			8.11
5	100 %	100 010	21/5	000	O ofp	100 %			8.12
6	100 010	100 10	2/5	0 %	0 0/0	100 %			8.14
7	100 40	1AD 010	2/5	0 %	0 %	1/80 %			8.02
8	100 010	100 010	2/5	0 %	O MO	100 010			8.18
9	100%	100 010	2/5	1) 8/0	Dolp	100 00			8.08
10	10090	100 90	2/5	000	040	100 of			8.10
11	100 %	100 90	2/5	0010	00/0	100010			8,12
12	100 40	100 %	2/5	0%	0.010	100010			8.17
13	10090	100%	2/5	0%	0%	10000			8.05
14	10040	100 40	2/5	0%	0%	100 90			8.10
15	100 90	100 %	2/5	Orto	0%	10090			8.08
16	100%	100019	2/5	0'90	0 %	100 %			8,12
17	100 90	100 90	2/5	090	090	100 %			8,01
18	190%	100 70	2/5	0%	0%	100 %			8,04
19	180 40,	100 40	2/5	0%	070	10000			8.02
20	100 %	100 Mo	2/5	00%	000	100 %			8,07
21	100 00	100 %	2/5	0 %	0%	100%			8,06
22	100 010	10090	2/5	0%	090	100 70			8,03
23	180%	100%	2/5	0%	0%	100%			7.99
24	10000	100 of	2/5	0%	0%	100%			7.99
25	10090	100 %	2/5	0%	0%	100%			8.04
26	10040	100 %	2/5	0%	0%	100%		****	8.05
27	100%	100 %	2/5	0%	0%	100 %			7,96
28	10090	100%	2/5	0%	090	100 10			8.00
29	100 %	100%	2/5	0%	0010	10070			8.01
30	100 %		2/5	0%	O M	10000			7.96 8.00 8.01 8.01
31							>		

## Houghton Lake Dam Data for October 2023

Summer Level 8.10 Winter Level 7.60

Spillway #3 = Total of 7 Boards

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY#3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	RAIN	SNOW	GAGE
	% OF GATE OPEN	% OF GATE OPEN	BOARDS IN	% OF GATE OPEN	% OF GATE OPEN	% OF GATE OPEN			
1	070	0%	6/6	0%	070	0%			8,10
2	0 %	0%	6/6	090	0'5/2	000			8,10
3	0,90	0 %	6/10	0 %	0 %	() ola			8.11
4	() %	0 %	10/16	0%	0 010	0 90			8.14
5	0 %	0 %	6/6.	0 8/2	0 %	0010			8 2
6	0 %	000	10/10	00/0	0. 40	() 8/p			8.09
7	0 40	0 40	61.6	0 010	1) %	0 0/0			7.97
8	D 90	0 %	6/10	0 %	0%	0 90			7.9
9	0 0/0	0 %	10/10	0 0/0	0 %	0 0/0			79
10	0%	0 %	70/10	0 0/0	0 %	0 %	·		8.03
11	D 90	0 %	6/10	0 %	0 %	0 010	-		8.03
12	0 90	000	10/10	000	0 %	/2 0/			8.05
13	() %	0 010	6/10	0.00	000	0 %			8.0
14	000	1) 90	6/6	0 3/0	000	000			8.0
15	0 90	000	10.110	0 %	1) 40	0 0/2			8.02
16	D 9/0	() Mo	6/16	0 %	1) 010	000			8.00
17	O Pla	() of p	616	000	000	1) 0/10			8.10
18	0 %	0 0%	6/6	0.00	0 %	0 %			8,14
19	0 %	0 90	6/6	0 %	0 0/0	() of			8.15
20	0%	0 %	6/6	0 %	0 0/0	0 %			8,0
21	0 %	0 %	6/6	0 %	0%	0 %			8,09
22	0 %	0 %	6/6	0 %	0 %	0%			8.09
23	090	000	6/6	0%	0 %	() 01D			8.1-
24	0%	0 010	9/6	0 90	0 %	000			2.19
25	100 Mp	100 90	2/5	0 %	0 %	100 90			8.15
26	100 0/0	100 90	2/5	0 610		100 40			8.15
27	100%		2/5	0 00		100 %			
28	100 40	100%	2/5	N 1 102 AT	0%	100 %			8,13
29	100 c/n	100 %	2/5	0 %	0 %	100 %			8.1/2
30	100 %	100 % 100 % 100 %	2/5	000	0 %	100 %			8,17
31	100 90	100 90	2/5	0 %	0 %	100 10			8.15

# Houghton Lake Dam Data for September 2023

Summer Level 8.10 Winter Level 7.60

Spillway #3 = Total of 7 Boards

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY #3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	RAIN	SNOW	GAGE
	% OF GATE OPEN	% OF GATE OPEN	BOARDS IN	% OF GATE OPEN	% OF GATE OPEN	% OF GATE OPEN			
1	0%	0.010	6/6	0 90	0,90	0%			8,13
2	0 %	0%	6/10	0.00	0 %	0%			8.10
3	0 %	000	10/10	0 %	0 %	0 8/0	·		8,11
4	0 %	0 0/0	6/6	0 %	000	0.010			8,10
5	0%	0 00	6/10	1) 6/2	0 %	O do			8,12
6	0 40	0 90	6/10.	0 0/0	19%	Oola			8,13
7	0 %	0 010	6/6	0 %	090	0 010			8.00
8	0 %	0 0/0	6/10	000	0 5/0	0 %		-	8.11
9	0 %	2 40	10/10	00%	000	0 90			8.12
10	0 %	0 %	6/10	090	0 010	0 90			8,12
11	000	0 %	6/10	0.40	0 %	O ofp			8,14
12	0%	0 0/0	6/6	0 90	000	0 40			8.09
13	0%	0 90	6/6	0 010	0 %	0 %			8,11
14	000	0.00	6/6	Dolo	n of	0 0/0		***	8.14
15	0 %	0 90	10/16	00%	0 %	0 %	<del></del> -		8,14
16	0 40	0 %	6/6	0.40	0 %	0 %			8,13
17	0 %	0 %	10/10	0 %	0 010	U of			8,08
18	0%	0%	6/6	0 of	0 8/2	0 8/0			8.08
19	0 %	0 %	6/6	0 90	0 40	0 %			8.11
20	0 %	090	6/10	0 90	1) 0/0	0 %			8,13
21	0 %	0 %	6/6	0 40	0 8/0	() of			8,12
22	0 90	0 %	6/6	0 %	090	0.00			8.13
23	0%	0 %	6/10.	0.00	0 %	000			8.15
24	000	0 %	6/10	0 %	040	0.00			8.13
25	0 %	000	6/10	000	0 90	0 8/2			8.13
26	0 %	0 %	6/6.	000	0 %	000			8.13
27	0 %	1/2/1/1	6/6	0 % 0 % 0 %	0 9/5	0 % 0 % 0 % 0 % 0 %			8.13
28	000	() of	6/6	0 %	0 40	0 5/0			8.11
29	0 00	000	6.16	090	0 8/2	0 %			810
30	000	0 %	6/6	0 90	0%	090			8.13 8.11 8.10 8.10
317							100		

Houghton Lake Dam Data for August 2023

(Summer Level 8.10) Winter Level 7.60

Spillway #3 = Total of 7 Boards

DAY	SPILLWAY #1	SPILLWAY #2	SPILLWAY #3	SPILLWAY #4	SPILLWAY #5	SPILLWAY #6	RAIN	snow	GAGE
	% OF GATE OPEN	% OF GATE OPEN	BOARDS IN	% OF GATE OPEN	% OF GATE OPEN	% OF GATE OPEN			
1	0%	090	6/10	0%	0 %	0%			8.10
2	0%	00/0	6/10	0 40	0 70	0 %			8,09
3 -	0 %	0 %	6/6	0 0/0	0 40	0 %			8,04
4	0 %	0 %	10/10	0 %	0.00	0 %			8.05
5	0 %	0 %	6/10	0 %	0 %	0 %			8,00
6	0 40	() 0/0	6/10	0 %	0 00	0 %			8.0
7	0 90	0%	6/10	0 %	0 0/0	0 40			7.99
8	) Mo	0 9/0	6/6,	0 %	0 %	0 %			8.01
9	070	00%	6/6	0%	0 90	0 %			8,01
10	0%	0.70	Colle	0%	0 %	0 %			7.94
11	0 90	0 %	6/6	0 %	0 %	0 40			8.04
12	0 %	0%	6/10	0 40	0 40	0.00			7,95
13	0 40	0 40	6/10	0 40	0 0/0	0 %			7.9
14	0 40	00/2	10/10	0 Mp	040	0 40			8,02
15	0 90	0 %	6/6	0 %	0%	0 %			7.98
16	1) %	0%	6/10	0 %	0 %	0 %			80
17	0 %	0 %	6/10	0%	0 %	0 %			8,0
18	0 %	0 40	6/10	000	0 %	0, 40	1		8,05
19	0 %	02 %	6/6	0 %	0 %.	0.40			8,10
20	0 %	0 %	6/6	0 %	0 8/0	0 0/0			8.04
21	0%	0 90	6/6	0%	00/0	0 %			8,08
22	0 %	0%	6/10	1) %	0 %	0 %			8.09
23	0 %	0%	6/6	0.90	000	0%			8,12
24	0 %	0 %	6/10	0 %	0 %	0%			8,08
25	0 %	0 %	6/6	0 %	000	0 %			8.0
26	0 00	0 %	6/6.	0 90 0 90 0 90 0 90	0%	0%			8.06
27	000	0.%	6/6	0 90	0 %	0%			8,08
28	0 10/0	0%	6/6	0%	0%	000			8.07
29	0 %	0 %	6/6	090	000	0 %			8,05
30	0 %	0 %	4/6	() 70	1 4 10 1	0 %			8.05
31	0%	0 %	6/6	0 010	0 %	000			8.11

SOUTH	1 51	immer	8.10	) Wi	nter ~	y 20,	NORTH	1
Day	OPEN	OPEN	BOARDS	16 of GAM	90 OF GAT	Pen Open	Rain/Temp	Gage
	Spathing	Speller	Sallway		Spilling	Spilling		
1	C	C	C	(	C	C		8.19
2	C	C	C	$\mathcal{L}$	C	C		8.21
3	C	C	C	C	L C	C		8,20
4	(	C	C	C	C	C		8.20
5	0	C	C		C	0		8,19
6	6,	C	0	C	C	C	,	8,19
7	6	0	C	C	C	C		8.20
8	5	C	C	C	C	C		8,21
9	5	(	()	C	C	C		8.24
10	9	C	3	6	C	C		8,21
11	5	-6	3	0	C	C		8.14
12	20	70		_C	()	C		8,17
13	C	(4	1	C	C	C		8.13
14	-	8		C	2	G		8.15
15 16		7	\	5	0	C		8.14
17	0	0	-	(	<u> </u>	(,		8,11
		0	a	C	<u>c.</u>	(		8.11
18 19	0	0	7			()		8.11
20	The same of the sa	0	0	0	- (-	0		8.11
21	10	· C	0	C	C	0		118
22	c	0	0	. 0	477			8.10
23	0	7	0	-	~			8.12
24	7	8	0.	7	7	7		0 10
25	0%	0 %	6	0%	0%.	0%		8.10
26	0%	0%	10	0%	0 %	0%		8.13
27	0%	000	1/2	0%	Dolo	0%		8.15
28	0.%	0 %	6	0.40	0 %	10%		0.1
-	0%	0 %	6	0 %	6 %	10 %		8.12
30	040	0 %	6	0%	000	1090		0116
31	10	000	(0)	0.40	() of p	0%		8.10

OUTH	1 5	umme	r-8.1	Wi Wi	Jun nter '	7.60	NORTH	ĺ
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
					View Inc.			
1	6	C	0	0	0	C		8,3
3	0	4	10	18	10	C		8.2
4		14	18	10	18	4		8,2
5	1	1	18	12	12	5		8,2
6	8	8	18	18	18	16	1	8.1
7	7	10	10	0	0	1	-	8,1
8	0	7	10	18	8	19		8 4
9	0.	1	9	18	19	19	+	.8,1
10		C	16	16	1	2		8.1
11	C	1	1	16	6	2	1	8,1
12	C	C	C	C	C	10		8.08
13	C	C	C	C	C	0		8,1
14	C	C	C	1	C	C		8.11
15	C	C	C	C	C	C		8.00
16	C	C	C	C	C	C		8,08
17	6	C	C	C	C	C		8,10
18	. (w	C	C	C	C	0		8,12
19	<i>C</i>	C	C	C	C	C		8,12
20	0	<u>C</u>	C	0	C	C		8,11
21	6	<u></u>		C		C .		8,16
22	8	19	1	1.0	6	C		8.09
24	A	7	1.71	14	( 1	9		8.06
25	h	6	1	1-7-	7	1		8.04
26	10 -	10	0	7	7 +	1/1	-	8-10
27	X	17	7	7	71 .	17		2000
28	C	7	7	1	4	14		6.78
29	-C	C	1	1	1	19		8 11
30	È.	Ţ.	: C	0	6	1		9/1
- 34								0,14

NIT' .		nton Lake			. [	May	2023	
OUTH Day	Chain Gate 1	ummed Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	NORTH Rain/Temp	Gage
	Par -		Av.		3	7		
1	0	0	0	0	0	0		8.69
2	0	0	0	0	0	10		8.65
3	0	0	0	10	0	0		8,69
4	0	0	0	10	0	0		8.76
5	0	0	0	0	0	0		8.79
6	9	0	0	0	0	10		8.77
7	10	10	0	0	0	10		8,78
8	4	10	0	0	0	10		8.79
9	0	10	0	10	0	0		8.78
10	8	10	0	10	10	0		8,77
11	0	19	0	10	0	0		8,76
12 13	9	10	9	12	12	10		8,75
14	8	18	1	12	10	10		8,74
15	0	10	8	10	18	12		8,71
16	0	18	8	18	12	10		8.67
17	0	100	R	18	1-8	18		8,59
18	Ö	0	0	10	18	18		8,64
19	0	18	K	X	8	18-		8.64
20	0	8	0	10	8	10		8,56
21	0	X	8	8	8	18		8,48
22	0	n	1	0	8	8	0 -	8.51
23	0	0	()	0	0	(4)		8,52
24	0	0	0	ŏ	0	6		0,50
25	0	0	0	0	10	10		8,75
26	0 :	10	6	10	6	6	-	8.45
27	Ó	Ŏ	N	0	N.	1		8.38
28	(C).	10	Ó	0	0	18	-	9 21
29	-()	0	.0	Ó	0	0		8.34
30	d	e 2 ( )	0	0	0	1 X		8.34
31	C	C	0	0	A	1		8,31

8.28

SOUTH	1 45	umme	r - 8.)	0 Wi	nter '		NORTH	1	
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	
1	0								
2	0	18	18	18	+8	18	-	8.39	
3	6	18	18	18	+1/-	18	-	8,44	
-4	6	18	1 %	+	-	12		8.46	
5	8	8	18	12	1	18	_	8.51	
6	6	18	10	18	12	18		8.60	
7	8	10	17	16	1	18	-	8.66	
8	8	10	18	18	18	18	-	8,69	
9	0	10	18	10	14	18	+	8,76	
10	0	0	0	18	18	18		8,78	
11	0	Õ	0	0	18	0		8,80	
12	0	0	0	0	0	18	+	8.82	
13	0	0	0	0	0	10		8,83	
14	0	0	0	0	0	10	1	8.84	
(15)	0	0	0	0	0	7)			*
16	0	0	0	0	0	0		8.88	M
17	0	0	0.	0	0	0		8.86	
18	0	0	0	()	0	0		8,75	
19	()	0	0	0	0	0		8,85	
20	0	0	0	0	0	0		8.92	
21	0	0	10	0	0	0		8.86	
22	Q	0	0	0	0	0		8.84	
23	U	0	- 0	0	0	10		8.81	
24	0	0	0	0	0	0			8.
25		0	0	0	0.	0		8.77	8-9
26	0	10	0	0	0	0		8.78	
27	0	0	0	2	0.	0		8.82	
28	7)	1.0	0	0	0	0	13.71	8.78	
	2_	12		2	0	0		8.76	
30	0	0	0	0	0	0		8.78	
31									

	Hough	ton Lake	Dam D	ata for	M	ARCI	4 20	73
SOUTH	] 5	umme	r- 8.1	o Wi	nter '	7,60)	NORTH	7
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		2						
1	8	12	0	12	10	Q		2.00
3	0	0	8	1	0	0		8,00
-4		0	0	18	10	19	1	7,99
5	0	0	0	0	0	0		7.98
6 7	0	12	0	0	0	0	85	7,99
8			19	0	12	9		8,00
9	6	0	6	0	16	12	ļ	7.99
10	0	0	0	0	0	0		8,00
11	6	0	0	0	0	0		8,80
12	0	0	0	0	0	0		8,00
13 14	0	0	0	12	12	10		7.99
15	Ó	0	Ö	0	0	0		7,99
16	0	Ö	O	0	0	0	7	7,99
. 17	0	0	0.			0	es.	8.03
18	0	0	0	0	0	0		8.04
19	0	0	0	0	0	0		8.06
21	0		0	0	0	0		8.0
22	0	0	0	0	0	0		8,07
23	0	6	0	0	0	0		8.07
24	8	0	9	9	0	0		8,08
25 26	()		3	0	0	0		8.13
27	0		0	0				8.18
28	0-	0	0	0	8	8	×4.11	8,18
	()	0	0	7	0	0	a a 0	8,20
30	()	0	0			0		8.22
31		U		0	0	0	. 34	8,29

5. Leover

OUTH	Hough	ummer	c- 8.1.	o Wi	nter "	7.60	NORTH	2
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1		0	0	0	0	0		7,94
2	The second secon	(2)	10	10	10	10		7.92
4		9	18	10	10	0		7,92
5		18	18	9	10	9		7.92
6	-	18	10	10	10	0		7.90
7	8	18	18	10	10	0	,	7.88
8	8	18	9	9	10	10		7.89
9	8	18	2	18	+0	10		7,88
10	8	18	2	10	10	19		7,89
11	8	18	1		10	10		7,91
12		18	K	8	12	19		7,93
13	0	18	19	18	10	10		7,92
14	8	8	8	0	18	18-		7.91
15	8	1	8	K	10	19		7.91
16	8	X	0	0	0	18		7.93
17	0	10	8	1	12	12		7.93
_ 18	0	0	8	8	10	14		7.95
19	B	0	9	2	9	10		7,96
20	0	0	8	8	8	19		7.96
21	6	0	8	18	0	18		7,96
22	0	Ŏ	0	8	8	10	7	7,94
23	A	0	0	8	0	10		7.75
24	0		0	0	0	1		7.98
25	0	0	0	(2)	1	8		7.98
26	0	-7	65		1000	Jac 3	-	479
27	0	7)	0	35	30	1		4.78
28	1	0	1	1	0		-	6.99
						()		0.00
30	- La 1						72 - 2	
31					7.7			

3.96 ore

DUTH	] <u>~</u>	umme	r-8.1	O WI	nter '	7.60	V 202	1	]
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	1
- 1		1							
1 2	8	18	10	18	12	12		7.93	3,94 4,08 4,08 4,32 4,56 4,56 4,56 4,56 4,56
3	X	18	18	10	18	10		7,94	4.08
4	8	18	18	18	18	12		7.94	4,08
5	X	18	18	18	18	10		7.96	4.32
6	6	18	18	18	18	10		7,98	4.56
7	6	18	18	18	+ 1	14		7,98	4.56
8	0	10	18	18	18	14		7,98	4,56
9	0	10	10	10	18	1	+	7.78	4.50
10	0	0	18	18	18	18	+	7.97	
11	0	10	6	1%	18	1/1	1	7.96	4.32
12	0	17	10	18	17	17	+	7.97	4.44
13	0	10	10	8	10	19	-	1.76	4.32
14	0	0	10	10	10	1		1.95	4.20
15	0	0	0	0	10	18		794	4.20
16	0	0	10	0	10	10		7.93	3.96
17	0	0	0	0	0	10		40%	4.32
18	0	0	0	0	0	0		7.96	4,32
19	0	0	0	()	0	8		7,98	4.56
20	0	0	0	0	0	0		7.98	7,50
21	0	0	0	0	0	0		7.98	
22	0	10	0	(1)		0		798	
23	0	0	-7	7)	()	0		7.97	
24	0	()	0	.0	01	0		7.97	
25	0	0	0	0	0	0		7.96	
26	0-	0	0	0	0	0		7.96	
27	0	0	0	0	0	0		7.97	
28	0	0	0	0	0	0		7.95	
	0	0	0	0	10	0		7.96	
30	4	0	0	0	0	0		7.95	
31	0	10	0	0	0	0		7.95	

SOUTH	1 5	ummer	8.1	OC WI	nter '	7.60	NORTH	1	
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	
4	_	-		<u> </u>					2
1 2	8	18	18	18	10	1 0		7.95	4.20
3	8	18	18	18	10	0		8.03	5,16
4	8	18	18	1 1/2	12	10		7.87	3.2
5	8	18	18	18	+ &	18	-	7.97	4,49
6	B	1	1	18	+	+ 1/	,	7,97	4.40
7	Ď	18	18	18	18	18-			4.30
8	8	18	6	18	+ ~	0	-	7,96	4.20
9	0	18	K	10	18	18	-	7.95	4.20
10	0	0	8	18	10	18	-	701	4.08
11	0	0	0	10	18	18		701	4.08
12	0	0	0	0	10	0		792	3.96
13	0	0	0	0	0	0	+	1 hand 6	3.84
14	0	0	0	0	0	0		791	2 7
15	0	0	0	0	0	0		7.95	1.20
16	0	0	0	0	0	0		7,9/2	1.32
17	0	0	0	. 0	0	0		7.95	1.20
18	(0)	0	0	Q	10	0		7.94	108
19	()		0	0	10	Q		7.94	1.08
20	()	10	0	0	0	0		7,94	4.08
21	9	0	0	0	0	0		7.93 3	3.96
22	0	10	0	0	0	10		7.92	3,84
23	2	0	1	0	10	0		7.94 4	1.08
24 25	8	0	4	0	12	0		7.96 4	1,32
26	0	1	8	18	-0	9		7.954	20
27	X	1	8	8	0	2		7,949	108
28	H	8	1	19	1	1		7.94 4	08
	<del></del>	X	0	14	8	1		7,93 3	
30	X	1	X	18	8	18-		7.92 3	84
31	0	6	8	1/1	n	1		7,92 3	84

	Hough	ton Lake	Dam D	ata for	NOVE	MBE	R 20%	12	-
SOUTH	1 5	umme	r-8.1	A Thur		7,60)			
Day	Chain	Chain	Boards	Chain	Chain		NORTH		
524	Gate 1	Gate 2	Doards	Gate 3	Gate 4	Chain Gate 5	Rain/Temp	Gage	
					Oute 4	Gale 3			-
		23					1	1	
1	$O^{-}$	0	0			()		0 10	
2	0	()		100	1			8.10	
3	$\delta$	1-1/	1-	1	+	+ 4		811	112
			18-	12	12	10		8.12	,24
4	()	U	10	0		10		8.14	.48
5	0		10	0	0	0		8,28	2.16
6	0	1)	0		1	10	, C		
7	Ô	2	100	7	6			8,21	1.32
8	0	1	14			10		8.08	124-
		12		(')	11)			8,18	.96
9	0	0	0		()	0		8.18	.96
10	0		0	0	(7)			8,15	
11	0	7	7	4)	95)	0	-	1.1.2	060
12	6	12		1	-	14	ļ	8.08	. 24 -
	8							8.03	084-
13		10			10			8.03	.84-
14	0				10	7		8.07	36-
15	0	0			()	77		8.07	Kil
16	(1)	0	7	7		10			2004
17	<u> </u>	(1)		2	1/2	12		8,04	5,28
N Comments				U	1/2	0	Ã	8,06	5.52
18		0	0	0		0		8.04	5-28
19	0.	0	0	0	0	0	- 1	0 4	6.40
20			0	0	7	0		0 .5	1100
21	0		0	0				8,00	4.80 No data a
/	0		1000025300						NO OHTHE W
22		0			0	0		8.03	5.16
23	0	(2)	()		0	()		8.02	5,04
24	0	()		0	1)			8.01	4.92
25		(4)	1)	1	7)	7)		701	/
26	Ŏ	(4)		1				1.47	4.44
			4		U	U	ú ·	8.00	4.80 ,
27	0	0	0	0	0	0		7.97	4,44
28	0	(2	0	()	0	D	19 (d 27 (d	8.00	4.80
		()		7	A	1	Control of the Contro		1.00
30	(A)						(t) (t)	8.06	5.52
34	V					F. ( / )		7,87	3.24

gasaafi dhan a

	Hough	nton Lake	e Dam D	ata for	Octo	ber	2027	2	
SOUTH	$1 \in$	- summo	r-8.10	2) We	nter '		NORTH	1	
Day	Chain	Chain	Boards	Chain	Chain	Chain	Rain/Temp	Gage	
	Gate 1	Gate 2		Gate 3	Gate 4	Gate 5		Cago	
	ł	:::		1	100				
1	0	C	0/5	P	P	(1)			- /
2	7	1	(1/-)	1 5	10	19			24
3	77	7	(.(5)	P	1	10			12
	7	177	C(S)		P	4			24-
4	9	16	C(5)	P	1 1/2	C		8.08	24-
5	0	10_	C(5)	P	1 12	LC		8.08 .2	24-
6	C	-	C(5)	P	1 12	IC	27	8.02	96-
7	0	C	(5)	LP	I P	C		8,00 1	20
8	C	C	C(5)	LP	P	C		8.04	71
9	C	C	(C/5)	IP	P	C		8.04	72-
10	C	0	CYSI	P	P	(/			60-
11	C	C	C(5)	7	15	0			
12	C	C	0(5)	P	1	-		0/10	12
13	C	C	0/5	P	10	1			24
14	0	10	17/5	b	<del> </del>	1		-	
15		1	1/6	<b>D</b>	10				84
16	~		11/0	<del></del>	D	<del>                                     </del>		8.08	24
17	<u> </u>		((5)	7	0	<u> </u>		8.09	12 -
18	C		C(5)		D	<u> </u>	2 10	8.01 1.	08 -
	0	6	((5)	P	1 1	C		7,91 2.	28-
19	C	<i>C</i>	((5)	ρ	10	C		8,04	72
20		10	((5)	<u>P</u>	10	C			48
21	C	The Control of States	((5)	$\mathcal{P}$	1	C			96
22	C	(	((5)	$\rho$	P	C			34
23	6		C(5)	P	P	1			20
24		C	C(5)	P	P	C	1		32
25	0	0	0	0	0	0		8,12	201
26	0:	10	0	0	0	0		8.03 ,8	24
27	0	Ó	0	0	0	1		8.15	100
28	0	0	()	0	0	6		8.15	60
	Ó	10	0	0	0		1, 3513	0.13	10
30	0	0		(A)	4	0	4 (1 11		18
31	0	1	<b>X</b>						36
211		10		Ų	U		200	8,12 .:	241

SOUTH	] (5	umme	r-8.10	5) WI	nter '	7.60	NORTH	7	
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	
1		C	C(S)	P	P	C		8,09	0
2	1	1 C	C(5)	$\rho$	P	('		8:10	
3	<del> </del>	<u>C</u>	C(5)	P	P	C		8,06	,
4		C	C(5)	P	Ρ	C		8.07	0
5	<del></del>	C	C(5)	LP_	$\perp P$	C		8.04	0
6			C(5)	P	1 19	(	2.5	8,03	
7		0	((5)	P -	P	C		8.02	,
8		<u></u>	(C(S)	P	P	C		8.04	
9 10		_	(2(5)	P	P			8,04	
11		<u>C</u>	((5)		P	C	<b>_</b>	8.01	1:
12	C	1	C(5)	<u>P</u>	10	C		8.00	11
13	7	1	C(5)	B-	$+$ $t_0$	<u> </u>		8,13	1-
14	7		(-(5)	0	15	0		8,10	6
15	C	1	((5)	P	1-5	0		8.08	6.
16	0	1	11/21	<del></del>			T	8,13	
17	71	, 71	0/5	0	15	1	<u> </u>	8.10	$\epsilon$
18	11	C	ALG		16	6		8,11	*
19	Č	6	1/6	10	10			8.09	01
20	C	C	1/5	<del>- D</del>	<del>+ 10 -</del>	0		8.03	6
21	C	6	1.75	Ď	- Co D	C	<b>3</b> 1	8.08	0 .
22	1	· C	175)	The Difference of the Control of the	Û	1	And the last	7 91	0
23		0	C755	D	P	7	r	8.03	14.
24	C	0	(75)	72	P	(		8.05	1
25	0	0	075)	R	Ď	0	100	798	1.4
. 26	C	0	2(5)	Ψ	P	6		8.00	1
27	0	0	C(5)	P	P	C	17/2	8.00	1.
28	0	0	C(5)	P	P	6	3.3	8.04	1
29	C	0	C(5)	P	P	C		8.09	e i
30	<u> </u>	6	675	P 20	P	C	11 1	8.09	
31	7					22			

SOUTH	(5	umme	r-8.10	Wi	nter '	7.60	NORTH	102	
Day	Chain Gate 1	Chain Gate 2	Beards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	
1	C	C	c (5)	P	P	10		8.01	3
2	C	C	C (5)	P	P	C		8.10	0
3	C	C	(5)	P	P	0		8.16	.7
4	C	_ C	C (5)	P	0	C		8.13	. 3
5	_ C	C	C 15)	R	10	C		8,16	.7
6		C	(6)	٢,	P	C	,	8,14	a 4
7	7	19	5(5	P	P	C		8,13	.3
9	7	1	(5)	-5	I P	C		8,14	04
10	7	1	(5)	P	10	C	-	8.15	060
11	8	1-9	(5)	D	16	10		)	NO!
12	0	6	0/5	D	PO	5		0.10	1
13	7	10	17-1	-b	0	2		8,13	0
14	C	C.	17-1	P	P		1	8,13	e
15	(-	C	075Y	p	10	1		8.12	
16	C	C	C(5)	P	D			8 09	u
17	0	(3	(75).	P	P	19		0 07	-
_ 18	C	(2)	(75)	P	P	8		8 18	-
19	('-	C	CYSY	1.0	P	C		8.09	0
20	C	C	C/51	B	P	0		8,09	
21	C	C. Colon	(15)	P	P	C.		8.06	- 0
22	0	(	C(5)	P	$\rho$	C		8.04	0
23	(	4	C (5)	P	P	1			10 in
24	9	6	6(5)	12	P	0		^	10 in
25	6	10	((5)	R	P	0		8.10	2
26		18	(-(5)	F.	- h	6			6-
27 28	<u> </u>	14	4 (5)	P P	- 5	4		8,12	. 24
29	1	1	(5)	-	- N	-	-	8/11.	.12
30	Zi.		(5)	P -	- 1	6		8.15	60
31	K		C (5)	D	P	0		8.07	36

	,	Hought	ton Lake	Dam Da	ata for	Ju	lv 2	3022	<del></del>	•
	SOUTH	1 (5)	1 100 100 0 1	c= 8.10	Tile	nter:			-	1
	Day	Chain —	Chain	Beards	Chain	Chain	Chain	NORTH Rain/Temp	Gage	
		Gate 1	Gate 2		Gate 3	Gate 4	Gate 5	Trailly Tellip	Gaye	
		ļ								
	1	C	C	C(5)	·P	P	0		8.34	2.88
	2	C	C	(15)	P	P	(		8.32	2.00
	3	C	C	C(5)	P	10	C		8.34	2.64
	4	0	C	((3)	P	P	0		8,36	3.12
	5	C	C	C(5)	P	P	18		8,32	n ill
	6	C	C	C 755	P		7	8.	8,36	3,12
7	7	C	C	( (5)	P	P	7		8,34	2.88
	8	C	C	C(5)	P	P	C		8,32	2.64
	9	C	C	((5)	P	P	0		8,32	2,64
. 11	. 10	C	C	C(5)	P	P	C		8,30	2.40
y v	11	C	C	C(5)	P	P	C		8,28	2,16
y.	12	C	C	(5)	(D)	P	C.		8.23	1.56e
15	13	(	C	C(5)	P	P	0		8,28	2 1/2
	14	C	2	C(5)	ρ	P	C		8.27	2.16 2.04 2.04
	15	0	<u>C</u>	C(5)	ρ	P	C		8.27	2 04
	16	C		C(5)	P	P	C		8,26	1.92
	17	(_		C(5)	φ	P	C		8.26	1.92
	18		- 6	C(5)	P	P	0			-no info ave
a de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composición de la composición de la composición dela	19			C(5)	* P	Ď	C			-no info ava
	20	C		6(5)	P	P	1	4	8,23	1.56
	21	C	i in this	C(5)	$\rho$	$\mu$			8,151	· (e)
	22	$\mathcal{C}$	<u>C</u>	((5)	P	P	14. C 15		8,18	96
100	23	(1)	C	1(5)	P	P			8,16	72
	24		- C	00	P	$\rho$	C		8,19	1.08
H 1	25	(	C	C(5)	β		C		8,14	,48
V	26	C	1	C(5)	$\rho$		iC	NY NA	8.17	84
1.021 1	27	C	C	0(5)	D.	P.	C	20	8/16	277
	28	C	C	0151	:-(O)	P	C	7. 2-34	800	0
(1.04555) Fig.		C	C	0 (51	1	Ď	0		908	- 24
2017	30	Comment	C	C (5)	<b>P</b>	P	C		8.10	Ø
K.	31	C	0	0 (5)	P		C	4		012

SOUTH Day	Chair	ummer	r-8.1	O) Wr	nter ~	7.60	NORTH	1
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1.	0	12	0	0	0	0		8,66
3	8	10	0	1-9	12	19		8,64
4	0	118	B	1	+ ()	19		8,56
5	0	10		195	1	0		8.57
6	0		8	(4)				8,55
7	0	0	0	0	0			8,59
8	<u>C</u>	Cs	0	0	0	6		8,53
9	C	C	0	0	0	0		8.49
10	<u>C</u>		0		0	0		8.52
11 12					0	0		8,51
13		1		0/1/0	()	(0)		8.49
14	7	1	6	Plate(P)	Plate(P)	C	,	8,54
15	C	C	0	P	0	0		8.56
16	C	C	0	P	2	7		8,50
17	C	C	0.	P	P	7		8,36
18	0	C	0	P	P	0		8,42
19	C		0	P	1/2			8,47
20		C	0	P	P			8.47
21			0	$\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}}}}}}}}}}$				8.44
23	7	16	8		D			8.37
24	· U	0	8	D	101			8,40
25	0	C	0	P	P	<u>C</u>		8.39
26	C	- C	0	ρ	P	7		8.40
27	0	C	0,	P	P	1		8,23
28	6	C	((4)		P	C		8,29
	10	C	C(4)			0		8,38
30	-6	C	(5)	Ρ	7	('		8,40

SOUTH Day	165	ummer	r- 8.1	O WI	2.6	7.60	NORTH	1
Day	Chain Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1	0	0	0	0	0	0		9.23
2	0	10	0	0	0	0		917
3	0	110	0		0	0		91/2
4	0	110	0	0	0	0		9.18
5	9	112	0	0	10	0		9.18
6 7	9			10	0	0		4.16
	8	119	0	0	0	0		9.14
8	0	119	0	0	0	0		9,13
10	0	112	0	0	0	0		9.18
11	8	119	0	10	0	0		9.08
12	0	118	0	19	10	0		9,09
13	0	10	8	18	18	10		9.12
14	0	10	8	8	19	Q		9.10
15	0	0	0	8	0	0		9,10
16	0	0	8	8	8	0		7,09
17	0	0	0	8	5	0		7.04
18	0	8	6	8	6	8		8,97
19	0	0	0	10	0	75		7.04
20	0	0	0	0	0	0		8.98
21	0	0	0	0:	.0	0		0110
22	0	0	0	0	0	0		0.00
23	0	0	0	0	0	0		8.88
24	0	0	0.	0	0:	0.	7.0	8.87
25	0	0	0	0	0	0		8.88
26	0	70	0	0	0	0		8,83 8
27	0	10	0		0	0		8.77
28	0:	12	Q	0	0	0		8.78 8
at a second second	0	0	0	0	0	0		8.80 8
30	0	0	0	0	0	0		8,77 8

PE.

	Hough	dn Lake		ata for	AP	RII	2022	2
JTH	1 5	ummer		2) (vila		110		
у	Chain	177	Boards	Chain	nter r		NORTH	<u></u>
	Gate 1	Gate 2	Doalus	Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1	0	0	0	C		6.4		0 4
2	0	0	0	0	C	C		8.75
3	0	0	Ó	: 0	C	0		8.85
4	0	0	0					8 90
5	0	10	0					892
6	0	0	0	C	C	1.0	`	8.99
7 8	0	2	.0	C.	$C_{-}$	C		9.06
9			$\mathcal{L}$		C	C		9.09
10	8	18	<del>//</del>		<u></u>	<u></u>		9.12
11	0		()					9,17
12	0		8		6	-		9,20
13	0	.0	8	8				9,21
14	0			0			,	9.23
15	0	0	0		0	0		9 19
6	0	0	0	0	0	0		9.20
7	0	D	0	0	0	0		9.24
8	0	0	0	0	0	<u></u> ത		9,26
9	0	0	0	0	0	0	(	9.15
20	10	4	2	2	9	$\mathcal{O}$		9.29
2	0	(L)			9			9.23
3	0	8-1	8	8	0	4:		7.27
4	0	0	0	7	61	4)		9.28
5	0	0	0	0	8	8		9,29
6	0	-0	0	0	8 +	77		926
7	0	02	0	0	0	1	79	9.21
28	0	. 0	0	0	0	0		7.23
9	0	0	0	0	0	0		922
30	0	0	0	0	0	0	\$	9.26
1								

	Hough	ton Lake	Dam E	ata for	MAI	70.4	2022		-
SOUTH	7 5	umme	c - 8 1	1 We	nter '				7
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	NORTH Rain/Temp	Gage	
1	0			0					
2	0	0	0	C	C	C		8,06	5,5
3	0	0	0	C	C	C		8.06	5.4
5	0	0	0	C	6	6		8.04	5.2
6	0	0	0	C	C	2	v	8.05	5,29
8	0	0	8	C	0	C		8.04	5.4
9	0	0	0	<u>C</u>	<	C		8.04	5.5%
11	0	0	8	C	6	C		8.03	5,16
12	0	0	0		C	C			511
14	0	0	8		2	(		8,02	5,0
15 16	0	9	0	C	C	0		8.00	4, 9
17	0	.0.	0	0		<u>C'</u>		8.00	4.8
_ 18 19	0	0	0	C	C	C		8.02	5,0
20	0	8	8		0			8,05	5,4
21	0	0	0	C.	, C	2		8.08	5.78
23	0	6	8	6		9	266	8,20 1	7,20
24	0	0	0	C	C 1	C		8.33	7.86
25 26			8	0	5	0		8.391	7,48
27	0	Ø	Ó	C			_ مصطفالات	8,41	4.77
28 29 7	8	3	8	8	6		.00000	2.46	10.3
30	0	0	0	Č	C	2		8.49	11,64
31	0	0	0	C	C	C			3.08

SOUTH Day	Chain	umme Chain	r-8.1	O W	inter '	7.60)	NORTH	1	1
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	1
		1						25	
1 2	8	8	18	6	5	6		3.29	8,28
3	0	0	8	19	150	16		8,27	8.04
4	0	0	0	10	16	1		8.26	8,28 8.04 7.92
5	0	0	0	0	10	6		8,25	7.80
6	0	0	0	C	Com	0		8,24	700
7	2	2	0	Cinc	Comme	C		8.21	7.32
9	0	0	0	C	0	0		8.21	7,50
10	0	8	(2)	5	6	19		8.20	7,20 7,08 6,7,08
11	0	0	0	1	8	5		8.19	7,08
12	0	0	0	0	7	7:		8.18	6.96
13	0	0	0	C		1		8.16	6,10
14		2	2	5	0	C		8,16	6.7
16	7	8	8	· ·	5	5		0,17	6.4
17	0	0	8	~	0	1		8,14	6,48
_ 18	0	0	0	0	0	7	- 1		9,12
19	0	0	0	C	C	6		~	6,24
20	0	0	0	C	C	C		73	6.12
21	0	2		6		0		8.09	5,88
23	0	1	8	9	5	6		8,10	0.00
24	0	7	8	7	7	(			0,12
25	0	0	0	0	7	0		17 10	6.12
26	0:	0	0	C	C	Č		8.11	0,00
27		0	0	C	C	:C		4	0112
28	O	0	0	0	C	C		8.09	5,76
30	A								
34									

SOUTH Day	Chai	umme	r-8.1	& WI	nter "	7.60	2022	1
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		<u> </u>			- 1			
1	0	10	0	C	(	1		8,60 1
3	0	10	0	1 C	0	C		8,59 1
1.4	0	10	13	C	C	C		8,59 1
5	0	6	1/	7	0	0		8,58 /
6	0	0	10	1	10	6		8,58 11
7	0	0	0	C	6	C		8.58 11
8	0	0	0	/	C	4		8,50 11
9	8	0	0	10	C	C		8,54 11
11	0	8	18	6	6	16		8,54/1
12	0	0	0	0	-	Jam's		8,54 11,
13	0	0	0	1	1	77		8.51 10
14	0	0	0	2.	C	2		8,50 10
15	()	2		C	6	C		8,49 10.
17			0	6	C	C		8,48 10.
18	0	0	0	7		C		8.46 10
19	0	0	0	70		10		8,46 10.
20	0	0	0	7	1	0	ll ti w	8,43 9,
21	Q	0.00	0	. C	7	7	SI WI	8,43 9,8 8,42 9.8 8,41 9,
22	()		0	4			d de sa e	
24	0	6		1		9		8.40 9.6
25	Ŏ	0	0	C	10	('		8.38 93
26 (	9	0	0	2	0 +	0		8,37 9.2
	9		0	C	0	e		8.35 9,0
28	0	2	0	(P)	0	C		7, 34 88
29 °	(2)	2		4	C	9		8.3381
31	0	6	8	6	10	4		8.3/8.
3 ° 3,	· ·	12 T 1 1 1 1		0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		19 20 - 12	<u> </u>	3,30 8.

					Dece	nper	2021	
OUTH	5	ummel	c- 8.10	o Wi	nter '	7.60	NORTH	7
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
	L	-52				Gate 5		7
1	0	0	0	C	C	17		0 21
2	0	0	0	C	1	0		8.36
3	0	0	0	C	C	0		925
-4	0	9	0	C	0	0		8 19
5	0	10	0		C	Com		3.29
6 7	8	2	2	C	1			8.34
8		100	8		<u>C</u>	C		8,40
9	8	13		9	19	0		8,39
10	8	6	8	( 2	15-	(		8,78
11	(	0	(2)	7	5	15		8,39
12	8	6	65.	11	1	57		8,46
13	0	0	0	C	(1)	77		8,48
14	0	0	0	C	71	10		8,49
15	0	0	0	C	C			8,49
16	0	0	0	C	C	C		8,53
17	0	0	0	0	0	0		862
18	Q	0	0	C	C	C	: :	8,58
19	9	$\mathcal{Q}$	0	2	C	C		8.59
20		0	8	0	C.	6		8,60
21	8	4	$\beta$	<u></u>	9	C		8 60
23	0	8	8	C	9	C		8.60
24	á	6	8	0	C 1	6		8,60
25	0	6	1	8	0	1		8,61
26	0:	- new	6	7	0	6	**	8,60
27	Ŏ	0	5	(-	0.	6		8.61
28	0	0	0	C	0	0		8.61
-	0	0	0	0	C	C	The second secon	8.62
30	0	9	0	C	C	C		8.61
31	0	0	0	C	C	0		8.61

November 2021

#### Houghton Lake Dam Data for

TH '	□ ఏ Chain	ummed Chain	C- 8.1	O Wi	nter '	7.60	NORTH	7
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1	0	0		10				
2	0	0	0	10	C	+ \$		878
_3	0	0	0	0	1	1 3		8.46
4	0	0	0	0	0			8,4)
5	6	0	0			Section.		8,49
6	0	0	0	C	C	1	,	
7	0	0	0	U	C			
8	0	0	0	C	C	C		8.46
9	2	0	0	C	C	C		8,43
10		0	0	C	C	C	,	8,44
11 12	8		2	C	0	C		8,54
3	6		9.	C	0	C		8.49
4	6	8	4	0	6	C		8.41
5	0	8	6	1	5	9		8.44
6	0	6	6	4	7		,	8,41
7	0	0	0	8	6			8.48 8.44 8.37
8	0	0	0	79	7	1		8,44
9	0	0	0	6	7			8.37
0	0-	0	0	C	0	- TO		8,39
1	0	0	0	C			:	0 2.1
2	0	0	0	C	C-		District Control	8 21
3	0	0	0	C		17		7 39
4	9	0	0.	C	0	C		8.41
5	0	0	0	0	2	C	5	3.29
6	9	0		6	C			3,27
7	8	1.7	9	0	0	C	3	3,36
8 9	1	X	1	8	5	<u>C</u>		8.328
0	7	8	8	7	-	5		3.35 0
1	V	0	2	0	12	(2)	8	3.34

Detober 2021

Houghton I	_ake	Dam	Data	for
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UTH Iy	⊃ Chain	Chain	Boards	0 > Wi	nter '	7.60	NORTH	7	
20	Gate 1	Gate 2	boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	1
		100							1
1	0	D	0	C	C	C		8.55	6 (1)
2	_0_	0	0	C	C	C		3.55	5,40
3	0	0	0	C	G	C		3.54	6.1
5	0	10	10	C	C	C		8.53	6.16
6	$\circ$		0	C	G	C		8.53	5,16
7	0	0	8	0	0	C	,	8.53	5,1
8	0	0	1		-	.C		8.53	5
9	0	0	0	C	C		-	8.53	5,14
10	0	0	0	C	C	C		8-57	5, les
11	0	0	0	C .	C	C	<del></del>	8,60	6.00
12	0	0	0	C	C	C		<u>ප,59</u> ස,59	5,88
13	2	0	0	<u>_</u>	C	C		8,60	5,88
14	0	0	0	C	C	C		8,60	6,00
15 16	0	0	0	d	C	C	ins.	8.57	5,64
17	0	0	9	C	C	C		8.53	5,16
18		0		C	C	0		රිපිට	4.80
19	$\circ$	Ŏ	8	2	0	C .		3,55	5.16
20	<b>3</b>	$\circ$		0	C	PP		5.52	5,04,
	0	0		C	. C	C		8,52	5,04
22		0	Ö	0	The Contract of the Contract o	S. Care	(		5,16
23	0	0	Ö	C	C	C		3.58	5.76
24		0		C	C	C	5	2.97	51.4
25		0	0	C	0	C		8.50	5,60
26 5	0	0	0	C	C	C	20	250	4.80
	0	0	0	0	C	0	1.5	8,55	
	0	0	0	C	C	C		8.5%	5.
30	0	0	8	<b>\</b>	(1	7		3.58	5.04
31	7)	- CA	2	-	-	Č	edh G	52	4.56

SOUTH Day	S Chain	Chain	Boards	O WI	nter "	7.60	er 20	7
	Gate 1	Gate 2	boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1	0	C	C	1	1	1		
2	0	1	1	1	18	10	-	8.76
3	C	7	C	1	17	1	-	8.77
- 4	P	0	C	(	6	6		8,78
5	0	C	(	C	1	71		8,79
6	C	C	C	(	1	7	1	8,71
7	(	-	G	C	0	18		
8	2	0	C	C	(	0		8.82
9	2	2	C	C.	C	2		8,76
10	0	0	C .	C	_	10		8.78
12	0	0	C	C	C	C		8.79
13	9	0	0	C	C	C		8710
14	0	3	(	(	C	C		8.77
15	0	3	0	Ç.	C	C		8.76
16	0	0	0	-	C	6		8,70
. 17			0		- 6	0		873
18	0	0	7			0		8.70
19	()	Ŏ	0	7		8		2.107
20	()	0	0.	C		0		2010
21	0	0	0	0	0			5.68
22	0	$\circ$	C	C	C .	0		251
23	0	2	C	C	C	C		8.50
24	$\bigcirc$		G	C	C1	C 7	۶	3.62
25 26	7	$\leq$	C	C	C	C	É	3,60
	2	0	2	C	C	C		3,61
28	0	0	C	C	G.	C		8-59
29		5	0	C	C	C		8.58
30		2	8	C	C	6		8.57
31	· · · ·		6.	C	C	C	1	3.56
					. 4			
6277J				ė.				

	Houg	hton Lak	ce Dam I	Data for	Augus	st 202	21		-
SOUTH	7 6	summe	16- 91	0 11/			_/		7
Day	CHAIII	Chain	Boards	Chain	nter	7.60	NORTH	1	
1	Gate 1	Gate 2		Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage	7
	1					- Cate 3	-	<del> </del>	4
,	0	1	1		+				
2	0	-	15	10	10	C		8,52	13
3		1	10		1	0		8,53	12
- 4	<del>                                     </del>	1		- (	10	10		8,56	15
5		2		10	10	C		8.58	-
6		10	10	1	10	C		8,58	5
7	6	6	1 %	10	C	C	,	8.59	5
8		19	16	10	C	C		8.58	5
9	0	<del> </del> <del> </del>			C	(			6
10	7	-		-		_		8,61	6
11	7	1	-	-	C	C		8.63	6
12	0	1	1	1-5	C			8,69	7
13	0	C	-	5	C	C		8,66	6.
14	<u> </u>	1-2	1-6		C	()		8,62	6,
15	7	8	1	-	C	C .		8,62	6.
16	7	-	0	6		C	i.	8,63	6
17	C	0	1	6				8.62	6,
18	C	7	7		0	C		8.61	6
19	0	0	C	C	C	(		8,60	6
20	0			('	C	<u>C</u>		8,58	5
21	1C	9			C	C		8,60	6.
22	C					C ;		8,60	
23	C	The square		C				8,55	6,0
24	C		` /	. (	-	1174		8,55	5,6
25	Ü	1. C	C			Û		8,55	5,
26	0	-1.1			0	0			5,
27		a	0	C		0		8,55	5,6
28	11	7	0	0	C'	(		8.58	5,
	7	7	4		0	C .	S 82	8,70 0	7,
30	7	7	7	C	5	5		3.79 8	3,
31	6	6	5	71	5	<u> </u>		X 16	7,
311	<u> </u>						<b>*</b>		3.

ОИТН		nton Lak			JULY	1 2021	/		_
Day	Chain	umme	r-8.1	O WI	nter	7.60	NORTH	1	
	Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain	Rain/Temp	Gage	+
			1	Cate 5	Gate 4	Gate 5			
1	0	1	-						
		10	10	10	1	10	-	8.52	1
3		18	10	C	C	0		8,50	1
	100	19	C	C	I C,	C		8.49	17
4	5	14	C	C	C	C		8,52	4.55
5	5	16	-	C	C	C		8,52	12
6	(	(	C	0	(	0	,	8.52	17
	<u>C</u>	C	1.5	0	C	0		1.7	12
8	5	10	C	LC	C	0			6
9	5	C	C	C		C			10
10	C	C	0	C		0		8.55 8.58 8.57 8.57	12
11	(	C	C	C	C	C		8.38	12
12	C	C	C	C	C	0		9 50	روا
13	(	C	LC	C	C	1		8,57	7
14	0	C	C	C	0	7		8,58	5,
15	(	C	C	C	0	77		8,64	5
16	C	0	C	C	0	7		21.	1
17	C	. C.	C	C	C	1			6
_ 18	C		C	2	C	7		8.64	
19	0	0	d	171	0	0		8.62	6.
20	C	C	0	0	0	0		3,61	61
21	C	()		0	C	7			510
22	C	C	Č		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0		8,61	6,
23	C	0	0	To a	7	0		8.61	6,
24	0	C	C	0	7	7		A	6,
25	P	7	0	0	7	7		8.61	6,
26	C	10	(1)	10	0	8		5.61	6
27	F-(A	7	7	7	7	ar I		8.61	6,
28	0	70	1		8	0	- '		5.
	10	0	7	-	5	0		8.62	6.
30	A	To 1	8	7	8	0		3,56	5,
31	8	1	7	7	5	C		3,56	515
~11		0				C		3,56	5,

	Hough	ton Lake	Dam D	ata for	Ti	ACT O	1421		
OUTH	7			= 1	<u> </u>	NE 2	06		
Day	Chain ⊃(	immer	8.10	3 Wi	nter '	7.60	NORTH	1	
Day	Gate 1	Chain Gate 2	Boards	Chain	Chain	Chain	Rain/Temp	Gage	
		Julio Z		Gate 3	Gate 4	Gate 5			
		税	L.	ĺ		1			
1	C	C	0	('	0	1			
2	C	C	0	0	~	-	-	8.58	5.7
3	C	C	7	1				8,59	5,8
-4	1	0	1	4	<u>C</u>	C		8.57	5.64
5	A	7		6	('	('		8.57	5,6
6	7	7	9		6	$\perp C$			5.6
7	0	0	1		C	(	X.		515
			C	C	C	1		8.55 5	177
8	C		9	C	C	0			-40
9	C		C	C	C	C		8.55	5.40
10	C	C	C		C	~	<del> </del>	8.55	5.4
11	C	C	~	$\sim$	0				٥,٠
12	C	C	C .			~			5.7
13	C	C	0	C	2	C		8.61	١٠٥
14		<u> </u>			_			8.57 5	5.6
15	0	2		C	C			8,54 5	5.2
16	0	0	C	C	2	C_	11	8.54 5	5.20
		2	C	C	C	C	(	8-55 5	),4
17	C .	<u> </u>	C	C	C	C			5.5
18	0	0	0	0	( )			8,43	
19	.O.	0	C	Ö	0				-
20	0	Ó	C	0	0	0	374 2	8,391 3	
21	C	C.	C	C	0	C			ا. ۱
22	o ·	C	~	C)	data and agreement	Ć "	1	8,33 2	.7(
23	Ċ.	C		~	0	0		3.42 3	.81
24	C	0	0	C	0 1			8.47 4	1.4
	C		0	<u>.</u>	C	C	· · · · · · · · · · · · · · · · · · ·	3.494	.6
		1.0	<u></u>	C.	C .	C		3.46 4	1.3
26	C		C	C	C	CT	<u> </u>	3,48 4	1.5
27		C		C	C	CI		3.53.5	.11
28		C	C	AC.	(1)	0	C	2.54 5	2
29	1C	C	C	C	6	0		54 5	, 2
30	C	0	: 0	0		7		8.54 5	*
31 -	(1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	2	(m) 1 4 a					0.34 51	28

	Hough	ton Lak	e Dam [	Data for	11	1/1/1	A 0.1		_
					$\mathcal{M}$	4 Y Z	021		
HTUC	7 6								_
Day	ے Chain	umme	r-8.1	O WI	nter '	7.60	NORTH	7	
Jay	Gate 1	Chain	Boards	Chain	Chain	Chain	Rain/Tem	Coop	_
	Gate	Gate 2		Gate 3	Gate 4	Gate 5	ryami remi	Gage	
	1	1							_
		57		_L	1	1	1	í	
1		10		/'	1	1	+		ر اـ
2	(1	C	1 77	1-8-	1-4	<u> </u>		8,30	12
	1	1 2	1 1		10	C		8.29	2
3	<u> </u>			$C_{-}$	1	7		9 ,//	15
- 4	C	C	C	0	0			0,41	3
5	1	0	0	1				8,38	13
	$\frac{\mathcal{L}}{\mathcal{L}}$		<u> </u>	10	1 4			8,40	
6		C	1 0	10	C	1	, , , , ,	0,70	3
7	0	0	7		0	<u></u>		8,50	14,
8	1	7	1 >-	1	(1	C		8,50	4.
	<u></u>							9	1/1
9		C	C	0	7	6	<del> </del>	0121	17
10	0	0	0	0				8,52	15
11	0	-		<u></u>	C	C	1	8.47	14
	<u></u>			1 6	0	//		0 1/	1.7
_12	("	0	0	C	-		<del> </del>	8,46	4
13	0					-		8.53	5,
	7	0						8.55	5
_14	C	<u> </u>		C		1			1
15	C	C		(_	0	0			5,
16	11	1	C	(1)	0	<u> </u>	30	8.55	5,
	0			-			200	8,58	5,
17	-	C		C		(-		8.57	5,
18	0	-					3	0,7/	
19	0	0	77	10	0	40	115	8.59	518
		Section 2	<u> </u>			C		8.59	5.
20	<u> </u>	(			('	1		8,59	5,8
21	C	C			-		27		010
22				0	1911/2 Table	10.12 21.52		8,58	5,-
	/	and the second				C.		8.56	5.5
23					0		F 7	800	5,8
24	· CI				1	/		0,31	
	0	C	C	C				8,59	5,
	-				C	C		8,59	5,0
26	C.	of the C	C	C	C.	11	111		
27	C	//	71	1	0	~	11 (1)	8,55	5,4
		7			<u> </u>			8.59	5,
28	C	6		-C	C	C	* * * * * * * * * * * * * * * * * * *		6,
29	10	C	C	0	0	0	1.00		
30	72:	11	11	(2) (3)	2	-		8,59	5,8
31	0	2	6	9		C	12	8,59	5,8
311	0	-	0	(',	C		10	8.58	5.7

Summer out and state

	Hough	ton Lake	Dam [	Data for	Aon	1/ 200		
DUTH	1 5	ummer	r- 8.1	a W	nter '			
ay	Ondin	ψιιαiri	Boards	Chain	Chain	Chain	NORTH	
	Gate 1	Gate 2	-	Gate 3	Gate 4	Gate 5	Rain/Temp	Gage
							1	
1	0	C	4	1		-	200	1001
2	_		il	1	1	1	7.XY	7.84
3	6	1	4	17	1	-		7,93
4	C.	1	11	1	-	-	-	7,95
5	1		74	1	1	-		7.96
6	1	0	11	1	-	<u>C</u>		8.01
7	0		7/	1	5	<u></u>		7.98
8	-	-	-4	-	5	(		8,00
9	0	-	7,	-				8.08
10		-	7	5	5	_		8.11
11	-	-	4	5	_	<u></u>		8.08
12		-	4		(	(		8,13
	-	9	4			_		8,15
13	5	15	4				_	8,15
14	5	(	4		-	<		8,14
15	-	C	4		-			8 18
16	C	C	4	C	(	0		8 00
17	C		4.	C	(	7		0,07
18	C	C	14	7	0			8,16
19	0	C	C	7	0	7		0,16
20	C	(	0	70	7	74		8.15
21	0	0	7	0	7	10		8,10
22	C	6						8,13,
23	6	2			-	5		8.16
24	6		7	5	- 1			8.19 1
25	7	7	-	-		9	1	8,20
26	/	1,1	-	-	C	-		3.09
27	6	10	-	-		(	3	8,32 2
-	8		1	6	C	C	170	8,23
28		-	4	-	6	CT		8.23
29		1	(		6	5		
30	-0	4	()	C	0	0		8.22
31								",

		Houghton Lake Dam Data for					2021	
OUTH ay	Shair S	umme	4-8.1	O WI	nter	7.60*	NORTH	7
ay	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain	Chain	Rain/Temp	Gage
			+	Gate 3	Gate 4	Gate 5		-
1		-	-					ł
2	Total Control	110	0	15	10	C		7,59
3		16	10	14	0	C		7.100
4	0	10	10	14	10	C		7.58
5	6	114	10	10	16	1		7.58
6	1	11	10	4	0			1.57
7	4	10	0	10	0		•	7.51
8	7	10	0	1/	6	1		7.57
9	-	16	0	10	6			7.57
10	-6	16	12	-	-	-		7.57
11	-	1 5	4	10	6		List Cold	7.59
2	5	15	2	(	(		-39	7,62
3		15	0	(			177	7.43
_	-		2	<u></u>	(	1		7.105
4			0		_	Cim		7.66
5			2					7,69
6	<u>_</u>		2	C				7,70
7	- C		-	-	_			7.72
8	6	- 5	2	<u></u>				7,73
9			2	-	-	C		7,74
0	9	9	1	-	0	0		7,70
1	9	0	1	0		C.		7.77
2	0	0	2			-		7.78
3	5		1	_	-			7.19
4	5		2	· C				7.84
5	-		1	-	-	- (		7.80
6	6		2	C				7,81
7	(		2	_		:		7.90
8	C	6	2		C	C		7,72
-1		C	40	-		-		7.98
0	C	C	4		-	-		797
11-	- /		L	1	1	-		11.1

7.84 2.88 43

Houghton Lake Dam Data for Feb 2021

OUTH Day	Chain	Chain	r-8.1	O WI	nter '	1.60	NORTH	7
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1	0	0	Ø	-	-			
2	0	0	8	10	10	0		7.6
3	0	0	Ø	0	0	0	4	7.4
4	0	0	10	0	0			7.4
5	_0	6	10	6	(0)	10	1	7.5
6	0	0	0	0	0	6	100000000000000000000000000000000000000	7.5
7	0	0	0	0	0	0		
8	0	0	0	0	0	6		7,5
9	0	10	0	0	0	0		75
10	0	12	0	0	0	0		1.5
11		9	0	0	0	0		1,5
13	0	12	2	0	0	0		7.5
14	0	0	0	0	0	0		7.5
15		0	0	0	0	0		7.5
16	3	5	8	0	2	Ó,		7.5
17	0			0	0	0		7.5
18	0	0	0	6	<u>C</u>	C		عا. ٦
	Ċ	0		1	C	C	-	7,6
20	C	6	0	C	C	C		7.6
21	C		0	0	C			7.6
22	C	đ l	0	C	<u>C</u> .	C		7.6
23	0	0	0	C	C	0		امارا
24	C	6	0.	0	COL	7		7.6
25	C	C	0	ट	C	-	-	1.0
26	C:	C	0	C	C	C	-	و)، آ سال
27	C	C	0	C	C	C	_	1.6
28	1911			(27				1.100
29								
30			1741				(2)	

Houghton Lake Dam Data for	Jan 2021
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SOUTH Day	Chain	Chain	r-8.1	O WI	nter	7.60	NORTH	7
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain	Rain/Temp	Gage
		124			Oate 4	Gate 5	+	<del> </del>
1	0	10	0					
2	0	10		9	0	0		7.73
3	0	16	1 8	0	1 0	0		771
-4	0	10	8	0	0	0		7.72
5	0	10	Ø	7.577	0	0		7.71
6	0	0	Ø	0	0	0	7540.	7.70
7		0	Ø	0	0	0	*	7.69
8	0	0	8	0	0	0		7.69
9	0	0	8	0	0	0		7.68
10	0	0	0	0	0	0	-	7.68
11	0		8	0	0	0	1	7.67
12	D	0	D	0	0	0		7.67
13	0	0	Ø	0	0	0		7.67
14	0	0	0	0	0	0		
15	. 0	0	D	0	0	0		7.66
16	0	0	Ø	0	0	0		7.68
17	- 0	0	Ø	0	0	0		7.68
18	0	9	0	0	0	0		7.69
	0	0	Ø,	0	0	0		7.69
20	. 0	Φ.	Ø	0	0	0	- 255	7.68
and August 1997	0	0	Ø	, O,	0	0		7.66
22	0	Single Section	Ø	0	0	Ö	en le gr	7.66
23	. 0		Ø	0	0	0		7.66
25		D	0	. 0	0	0.		7-66
26	0.	-0	0	O	0	O.		7.65
27	0		100	2	_0_	0		7.64
28	0	0	Ø	.0.	0	0		7.66
	0	0	Q	Ö	0	O.		7.64
30	-0	0	0		0	8		7.64
31	0	6	0	00	0		0	7.62
V 2 2	366		9 1	<u> </u>	· U	0	201	7.6

5 incheo below sun I inch above wirder

### Houghton Lake Dam Data for Dec 2020

SOUTH Day	Chain		nivy Le Chain	r-8.1	WI WI	nter '	7.60	NORTH	7
	Gate 1	- 14	nain ate 2	Boards	Chain Gate 3	Chain Gate 4	Chain	Rain/Temp	Gage
		П	ir			Oate 4	Gate 5		
1	0		0	Ø	D	1	M		
2	0		0	0	0	0	0		7.6
3	0		0	Ø	0	10	0		1.7
-4	0	1.	0	Ø	0	0	0	-	7.80
5	0		0	Ø	0	0	10		/47
6	0		0	D	0	10	<del>  0</del>		7.70
7	0		0	0	0	<del> </del>	0		7.7
8	0		0	B	0	0	+	-	7.7
9	0		n	Ö	0	0	0	<del>                                     </del>	7,70
10	Ö		0	B		0	10		7,74
11	0		0	Ø	9	0			<u> 1,74</u>
12	0		0	Ø	0	0			7,73
13	0		0	Ø	0	0	0		7.7
14	0	$\Box$	0	80	0	7,550	0	- 10	7.77
15	. 0		1	0		0	0		7.74
16	0		( )	à	0	0	0	90	<u> 7. 76</u>
17	ő		0	0		0	0		7.7.
18	0		-	0	.0	0	0		7.74
	0	******	0	6	.0	0	0		7-7a
20	0	1.0	0	0	0	0	0		7.72
21	0		0		0.	0	0		7.71
22	0		\	0	HILL STREET, 4	0	0		7.70
23	0			Ø	0	0	0	1	
24	Ó	alc.		9	0	0			7.72
	0		3	- 60 -	. 0	0	0		7,74
26	0 -	Ter		- Jest	. 0	0 .	0		7,72
27	0	10	20.7	B	0		0		7,71
28	0	- 0	-14	3/7	(%	0	10		7.70
-29	0		A THE RESERVE	10	0	V	W.		7,69
	-0	- : {		· //	()	U	0		7,70
31				. (7)	U	V	V	7	71

Houghton Lake Dam [	Data for	VOV.	2020
		400.	al al

<b>OUTH</b> Day	Chain	Chain	Boards	O WI	nter '	1.60	NORTH	7
	Gate 1	Gate 2	boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		0						
1		C	3	C	C	C		7.5
3		C	3	C	C	C		7.6
4	<u> </u>	0	3	C	C	C		7.7 2
5	<u> </u>	0	3	C	C	C		7.70
6	6	C	3	<u>C</u> .	C	C		7.74
7			- mark	<u> </u>	<u> </u>	C	8	7.74
8	1	~	3	<u>C</u>	C	C		7,75
9	C	0	3	0	C	C		7.75
10	C	C	3	-	0	C	<u> </u>	7.78
11	C	0	3	C.	<u>C</u>	C		7.83
12	0	C	3	C	2	C		7.76
_13	C	C	3	C	~	0		7.81
14	C	C	3	C	<u> </u>	C		7.74
15	C	C	3	С.	C	C.		7.40
16	Com	<u>_</u>	3	C	C	C		7.85
17	C	C	3	C	C	C	-	7.76 7.71
18	C	C :	3	C	C	G and		
19	<u></u>	C	3	·C	C			7.87 7.85
20	C	C	3	C	C	C	- U	7.77
21	2	Comme	-3	C	I.C	Č		7.81
22	0	0	3	C	C.	C "	0.0	7.85
23	C	C	3	C	2	C		7.77
24		C	3	C	C	C		7.89
25		C	3	C	C	C	-	7,88
26	<u>C</u>	2	3	C	C	C		7.90
21	C	2	3	2	C	C	-	7.89
28		0	3	C	C	9	7 - 1	7.91
			3	C	C	C		7.90
30		(	3	C	C	C	VACSU - 60	7.76

3 inches

Hinches sun labore winter

3 inches summe

#### Houghton Lake Dam Data for Oct 2020

SOUTH	7 50	umma	r-8.10	s We	nter '	710		
Day	Chain	Chain	Boards	Chain	Chain	Chain	NORTH Rain/Temp	Gage
	Gate 1	Gate 2		Gate 3	Gate 4	Gate 5		Gage
		21					,	
1	<u></u>	<u></u>	3	· C	C		-	7.50
2	<u> </u>	C	3	C	6			7.58
3	0	C	3	C	C	10		7.60
-4		C	3	C	C	2		7.62
5	C	<u>C</u>	3	C ,	C	C		7.65
6	2		3	C	C	ے	5.	7.61
7		2	3		C	C	<del>                                     </del>	7.54
8	C	0	3	C	C	C		7,57
9	C	0	3	0	C	C		7,64
10	C	0	3	( )	C	C		7, 53
11	C	0	3	C	C	C		7.63
12	. 0	C	3	C	(	C		7.62
13	<u>C</u>	C	3	C	C	0		7.63
14	C	<u> </u>	3	<u>C</u>	C	C.		7.66
15	0	C	3	C	C	C		7.54
16	<u>C</u>	<u>C</u>	3	_ C		C		7.60
17		C	3	C	C	C		7.69
18	C	C	3	C	<u> </u>	C		7.60
19	C	C	3	Ċ	C	C		7.59
20	0	C	3	C	<u>C</u>	C		7.63
21		a de la company	3	<u>ب</u>	- C	C		7-60
22		C	3	C	C	C	7. 15 1. Y	7.66
23		0	3	C	C	C		7.63
24	C .	<u>C</u>	3	<u> </u>	C	2		7.70
25	4	10	3	C	C	C		7.70
26 5	C.	+C	3	C	- C 10	i.C		7.69
27	· · · · · · · · · · · · · · · · · · ·	0	3	<	C	, C		7.72
28	4. 0.	0	3	C	C	C		1.71
20,		C	3	C	C	0		7.66
30		(	3	C.	C	C	T. C.	7.68
31		-	2	(	-	C		7.80

#### Houghton Lake Dam Data for Sept 2020

OUTH Day	Chain	Chain	F-8.) Boards	O WI	nter "	7.60	NORTH	]
	Gate 1	Gate 2	boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		16						
1	C	<u>C</u>	3	2	2			7.8
2 3		0	3_	C	2			78
4	C		3	<u>C</u>	C	C		7.8
5	C	C	7		<del>                                     </del>	C	<u> </u>	ארוך
6	C	C	3		1	C		7,80
7	C	2	3		0	C	2	7.91
8	C	C.	3	C	C	0		7.75
9	C	C	3	C	2	C		7.7
10	2	C	3	C	<u>c</u>	C		1. 13
11	C	0		0	C	C	<del></del>	7.00
12	C	C,	3	0	C	0		7.80
_13	2	C,	3	0	C			7.82
14	C	_ C	3	C	C	C		7,78
15	06		3	0	C	C		7.81
16	C	C.,	3	0	C	0		7.73
17	- 0	. C	- 3	0	0	C	FEE	7,70
18	C	<u> </u>	3	0	C	C	,	7.68
19	C	<u> </u>		6	C	C		1.71
20	C	2 0	3		C	C		7.7a
22	2	C	5	·	C			7,7,
23	^	2	3		C	C		7,67
24	C	0	3		0			7.66
25	C	0	3	~	٥.	C		7.66
26	C	C	3		C.			7.68
27	0		3	C	C	C		7.69
28		. (	3		C	2		7.64
	0	C	3	C	· C	<u> </u>		7.65
30	-0	<u> </u>	3	C	C	C		7.64
31	100 30 00	30	200	~	~			7.62

-4 below Summ

5 incheo belor Summer Houghton Lake Dam Data for Oug 2020

						) OH OI	<u> </u>	
SOUTH	0) ·	summe	r-8.1	O WI	inter '	7.60	NORTH	]
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain	Chain	Rain/Temp	Gage
			+	Gale 3	Gate 4	Gate 5		
	4					_{_}		ŀ
	1 6	<u></u>	3	C	C	C		8.23
2		0	3	C	C	C		8.19
3		0	3	C	C	C		8.20
500 4		<u> </u>	3	C	C	C		0140
5		C	3	C	C	C		~
6		C	3	C	C	C	- 6	8.18
7		-	3	C	0	C		8.16
8		C	3	C	C	C		8.17
9		- 0	3	C	C	C		8.15
10	C	C	3	C	C	C	===	8.16
11	C	0	3 -	C	C	C.		8.19
12		C	3	C	C	C		8.13
13	C	C	3 3 3		C	C		8.14
14		C	3		C	C.		814
15	N C	C	3	C		C		8.12
16	<u> </u>	C	3	C	C	C		8.04
17.		C	- 3	0	C	C	2	8.01
18	C	0	3		C	C		7.96
19	r miles Calar	2	3	C	0	C.	1 2	8.00
20	C	C	3	<u></u>	C	C	7	7.97
21	C	C	3	E C 3		C		7.96
22		· C · · · · · ·	3	C	C	All the second		7,96
23		2	3	C	C	The state of the s	200	7.96
24	C	C	3	<u>C</u>	C :	C.	12.00	7 05
25		C	3	C	C :	C	1-	7.92
26		Can	3	C	C	C		7,99
27		C	3	C	C	:C	7	.92
28		C	.3		0	C	7	
	- C	C	3	C	C	C		779
30	- C	C	3	C	C	C	Table 1	1.90
31	(	C	3		C.	C	100	

OUTH	7 5	ummer	r= 8.1	o Wi	nter "	760		
Day	Onam	Chain	Boards	Chain	Chain	Chain	NORTH Rain/Temp	0
	Gate 1	Gate 2	<del> </del> -	Gate 3	Gate 4	Gate 5		Gage
		97.			N N			
1		C	0	C	C	C		8.69
2		C	0	C	C	C		8-66
3		C	0	C	C.	C		8.64
- 4	C	C	0	C	C	C		8.65
5	<u>C</u>	C	0	<u> </u>	C	C	<del>                                     </del>	8,63
6	<u>C</u>	<u></u>	3	C	C	C	80	8.61
7		C	3		C	C		8,58
8		<u>C</u>		2	C	C		8.59
9	C		3	C	C	C		8.57
10	0	<u>C</u>	3	C	C	C.		8.52
11		2	3		C	C		8.43
12	-	0	3	<u></u>	C	C		8.40
13 14			3	C	C	C		8.41
15		0	3	C	2	C		8.44
16	0	2	3	C		C	11.	8.41
17		C	3	C	C	C		8.40
40			3		C	C		8.38
19		0			C	C		8.40
20	· /	V	3		C	C		8.41
21	10	$\sim$	3		C	C		8.39
22		C	2	, Q	. C	2		8.42
23		0	- 2	0	<u>C</u> .	->-1		8.42
24		~	3		0.1	S		8.41
25	*1- A-	1	3	-	0	-		8.39
26	· C ·	- 170	2	<del>-&gt;  </del>	0	2		8.37
27	7.70	7	15			C		8.35
28	. (	× -	3		0			8.30
29	10	C	3	-		C	3 5	8.28
30	C	~~	3		C	2		8.25
31	C	(	3		-	0	5	1,25
e <sup>E</sup> Cano			~~	<u> </u>	<u> </u>	0	1520	5,25

#### Houghton Lake Dam Data for June 2020

Day	Chain	Chain	Boards	O Wi	nter '	7.60	NORTH	
	Gate 1	Gate 2	boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		::						
1	0	0	0	0	0	0		9.14
2		D	0	0	0	0		C .
3		0	0	0	0	0		9.08
-4		0	0	0	0	0		9.09
5	0	0	0	0	0	0		9.06
6	0	0	0	0	0	0	3.0	9.00
7	0	0	0	0	0	0		9.00
8	0	O	0	0	0	0		9.01
9	0	0	0	0	0	0	<del>                                     </del>	9.00
10	0	0	0	0	0	Ö		9.07
11	0	0	0	0	0	0		8.88
12	0	0	0	9	0	0		8.88
13	0	0	0	3	0	0		8.89
14	_0_	0	()	0	0	0		8.88
15	.0	0	0	0	_0	0		8.84
16	0	0	0	0	0	0		8.81
17	.0	0	0	0	0	0		8.87
18	D	0	0	0	0	0	I.	8.75
19	0	0	0	0	0	0		872
20	0	0	0	0	0	0		8.72
21	0	0	0	0	0	0		8.67
22	C	0	0	0	O	C		8.67
23	0	0	0	0	0	C		8.70
24	C	0	0.	0	0	C		8.71
25	C	0	0	0	0	C		8,74
26	<u>C</u> :	-0	0	0	0	C		874
27	3	0	0	0	0	C		8.68
28	C	0	.0	0	0	C	a 2 3	8.70
201	10	0	0	0	0	C		.69
30	-	0	0	0	0	C	3	8.67
31		10 1997	70 Miles					0.00

Houghton Lake Dam Data for May 2020

	HTUC	~	ummo,	r-8.1	$\triangle W^{\dagger}$	ndor 1	7.60	446	_
	Day	Chain	Chain	Boards	Chain	nter T	Chain	NORTH	
1		Gate 1	Gate 2		Gate 3	Gate 4	Gate 5	Rain/Temp	Gage
			(i)						1
_	1	0	٥	\$	0	0	0		8,72
-	2	0	0	Ø	Ö	0	0		8.75
	3	0	0	10	0	0	0		
-	-14	0	0	0	0	0	0		8.68
<u></u>	5	0_	B	0	0	0	0		0,07
	6	0	0	0	0	0	0	55	8,73
L	7	0	0	Q	0	0	0		8.68
	8	0	0	(0)	0	0			8.61
	9	0	0	Ø.	O		0	<del></del>	853
	10	0	<b>5</b>	0	0	0	0	-	8.54
	11	0	atti.	0	0	0	0	<del> </del>	8.56
	12	0	0	80	0	0	0		8.51
	13	0	G	Ø		0	0	<del> </del>	8,50
	14	0	^	Ö	0	0	0		8,56
	15	. 0	0	0		0	0		8,59
	16	P	0		0	ව	0	<u> </u>	8.52 8.55
, .	17		0	Ø	10.7880	0	0		
781	18	0	Δ.	200	0	0	0		8.57
			0	8	0	0	0	<u> </u>	8.83
22.5	20	0		छ	(5)	0	0		8.95
201		C)	.0	Ø	0	0	0		8.99
tur-	21	- 0	1200	Ø	0	0		,	9.02
0,21	22	0	. // Name	0	0	0	0		9.04
4	23	0	0	B	0	0	O		9.07
100	24	0	0	D	0	01	0		911
1	25	0		8	0	0.	0		9.13
	26	0	Ö	ख	0	0	0		912
10	27	0	0	Ø	0	0	(0)		9 4
	28	0	0	Ø	0	0	0		9 4
	29	0	0	Ø	. 0	. 0	0	100 100	9 15
$\lambda$	30	-0	0	0	0	0	0	(	
. (4.)	31	0	0	0	0	0	8		9.13

#### Houghton Lake Dam Data for april 2020

Day	Chain	Chain	1 Passala	O Wi	nter '	7.60	NORTH	7
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		ė			12		1	
1	0	0	0	0	0	6		0.7
2	0	0	80	0	0	0		8.7
3	0	0	D	0	0	0		8.7
4	0		10	0	0	0		8.7
5	0	0	Ø	0	0	0		8.7
6	0	0	18	0	0	0	•	8.74
7	0	0	8	0	0	0		8.7
8	0	0	Ø	0	0	0		87
9 10	0	0	8	0	0	0		8.6
11	0	0	(6)	0	0	0		8.6
12	0	0	10	0	0	0		8.7
13	0	0	B	0	0	0		8,79
14		0	<u>8</u>	G	0	0		8.6
15	0	0	70	0	0	0		8.69
16	0	0	ें	0	0	0	W.	8.6
17	0	20030 200	Ø	0	0	0		8.6
18	0	0		0	0	0		2.65
19	0	0	8	10	0	0	,	8,60
20	0	0	Ø.	0	0	0		8.55
21	(0)	0			. 0	0		8.6
22	i 65.	0	100	0.	To A subject, and the	0		8.44
23	0	Complete Special	10	0	0	9		8,58
24	· •	0	DK.	()	0	U		8.62
25	. 6	7	B	. 0	0	0	202	8.56
26	0	100 April 100	30	0	0	0		8.54
27		0	M	0	0	0		8.54 8.54 8.50 8.53
28	1 6	0	d) Ö	-2)	0	0		<u> </u>
29	1 0	0	Q	ŏ	0	0	2 2 2	<u>x53</u>
30	0	0	0	0	0	0	A	8.65
31	· server					0		<u>8.65</u>

#### Houghton Lake Dam Data for

#### Warry 3030

Day	Chain	Chain	r = 8.1	O W	inter '	7.60	NORTH	7
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		ž.			8			
1	Ö	0	Ø		0	0		8.30
3	0	0	B	0	0			8.35
3	0	0	0	0	0	0		8.34
5	0	0	D	0	0	0		8.33
6	0	0	Ø	0	0	0		8.3
7	0	10	0	0	0	0	83	8.3
8	0	$\frac{\circ}{\circ}$	0	0	0	0		8.31
9	0	0	0	0	0	0		8.31
10	0	0	10	0	0	0		8.31
11	0		Ø	0	0	0		8.3
12	8	<del>  2</del> -	Ø	<u> </u>	0	0		8.38
13	0	1-8-	0	0	0	0		8.40
14	0	<u>~</u>	X	1 ×	0	0		8.43
15	NO	0	Ø	0	0	0		8.44
16	0	0	Ø		0	0	- 8	8.44
17	Ö	0	100		0	0		8.45
_ 18			0	0		0	;	8.45
19	0	0	30	0	0	0		8.40
20	0	ල	Ø	0	0	0		8.46
21	0	0	80	7 O. 8	0	0		8.50
22	0	0	Ø	0	Ö	0		8.51
23.	. 0	0	8	0	0	0		8.52
24	Φ.	0	B	0	0	0		8.51
25	0	0	B	0	0	0		8.51
26	0 -	b	Ø	0	0	0		8.52
27	0	0	6	0	0.	0		8.52 8.53
28	0	0	10		0	10		8.56 8.56
20	10	0	Ø	0	0	0	. S	1.67
30	0	0	Ø	0	0	0		3.65
31	0	0	0	0	O	0		8.70

#### Houghton Lake Dam Data for Feb 2020

Dov	5	umme	4-8.1	0 Wi	nter '	7.60	NORTH	7
Day	Chain Gate 1	Chain Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1	D	0	0	b	()	0		8,65
2	0	0	18	0	0	٥		8.6
3	0	0	Ø	0	.0	O		8.63
-4	0	0	8	0	0	٥		8.6
5 6	0	0	0	0	D	٥		8.62
7	0	0	Ø	6	N	0	1	8.61
8	0	0	05	0	0_	0		8 60
9		6	Ø	0	0	0		8.59
10	0	Ö	0	٥	0	0		8,58
11	D	٥	10	0	0	0		8.50
12	0	0	0	0	0	0		8.57
13	0	0	0	0	0	0		8.51
14	0	0	0	0	0	0		8,55
15	0	0	0	0	0	0		<u>8,55</u>
16	0	0		0	0	0		8.54
17	.0	0	Q	0	0	0		8,52 8,50
18	.0	0	0	0	6	0		8.50
19	0	0	a	b	0	0		8.50
20	0	0	Ø		0	0		8.49
	0	D		0	0	0		8.48
22	0	0	b	0	O	O O	1,2	8.47
23	0	0	8	0	3.00	V		8.45
24	0	O	Ø	0	0	0	***	8.44
25	.0	0	Ø	0	0	0		8.42
26	0	75	a	0	0	0		8.40
27	0	Ö	0	0	0	10		8,39
28	0	Ö	Q	0	0	0		8.39
29.	0	0	Ø	0	0	0	C 1/1/4/1	8.38
30	المرسنية		3	S 71		9-		8.37
31	e <sup>lo</sup> a very fil		200			WZ		

### Houghton Lake Dam Data for Jan 2020

Chain   Gate 1   Gate 2   Gate 3   Chain   Gate 4   Gate 5   Gate 6   Gat	SOUTH	2	summe	r= 8.	o W	inter	7.60	Nonzu	7
1   D   C   D   D   D   D   D   D   D   D	Day	Chain	Chain	Boards	Chain	Chain	Chain	NORTH Rain/Temp	Gage
2 0 0 0 0 0 0 0 0 8 6 6 6 0 0 0 0 0 0 0 0		Oate 1	Gale 2		Gate 3	Gate 4	Gate 5		
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3 D O O O O O S S S S S S S S S S S S S S				Ø	0	0	D		8100
4   0   0   0   0   0   0   8   6   6   0   0   0   0   0   0   0   0			0	0	0				0 1.1
4       0       0       0       0       0       0       8.4         5       0       0       0       0       0       0       8.4         7       0       0       0       0       0       0       0       8.4         8       0       0       0       0       0       0       0       0       8.4         9       0       0       0       0       0       0       0       0       8.4         10       0       0       0       0       0       0       0       8.4         11       0       0       0       0       0       0       0       8.4         12       0       0       0       0       0       0       8.7       0         13       0       0       0       0       0       8.7       0       0       8.7       0         14       0       0       0       0       0       0       8.7       0       0       8.7       0       0       8.7       0       0       8.7       0       0       8.7       0       0       8.6       0 <td></td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td>			0		0				
5 0 0 0 0 0 0 0 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8 1 6 8			0	Ø	0			<del>                                     </del>	0
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8 0 0 0 0 0 0 0 8 6 6 9 0 0 0 0 8 6 6 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0		10	1		K**	
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10		4 1	0	B		0	0		
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12 0 0 0 0 0 0 0 8.7 13 0 0 0 0 0 0 8.7 14 0 0 0 0 0 0 0 8.7 15 0 0 0 0 0 0 8.7 16 0 0 0 0 0 8.7 17 0 0 0 0 0 8.7 18 0 0 0 0 0 8.7 19 0 0 0 0 8.73 20 0 0 0 0 8.73 21 0 0 0 0 8.73 21 0 0 0 0 8.73 22 0 0 0 0 0 8.73 23 0 0 0 0 0 8.73 24 0 0 0 0 8.79 25 0 0 0 0 8.69 26 0 0 0 0 8.69 27 0 0 0 0 8.69 28 0 0 0 0 0 8.68					0	0	0	<del> </del>	
12 0 0 0 0 0 0 8.7  13 0 0 0 0 0 0 0 8.7  14 0 0 0 0 0 0 0 8.7  15 0 0 0 0 0 0 8.7  16 0 0 0 0 0 8.7  17 0 0 0 0 0 0 8.7  18 0 0 0 0 0 8.7  19 0 0 0 0 0 8.7  20 0 0 0 0 8.7  21 0 0 0 0 0 8.7  22 0 0 0 0 0 0 8.7  23 0 0 0 0 0 8.7  24 0 0 0 0 0 8.7  25 0 0 0 0 0 8.69  26 0 0 0 0 0 8.69  27 0 0 0 0 0 8.69  28 0 0 0 0 0 8.68		0	0	18	0	0	0		0.00
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15		0	0	10	0	0	1997	† — — — — — — — — — — — — — — — — — — —	
15		0	0	G					
16 0 0 0 0 8,76 17 0 0 0 0 0 8,76 18 0 0 0 0 0 8,73 19 0 0 0 0 0 8,73 20 0 0 0 0 0 8,73 21 0 0 0 0 0 0 8,73 22 0 0 0 0 0 0 8,73 23 0 0 0 0 0 0 8,76 24 0 0 0 0 0 8,69 25 0 0 0 0 0 0 8,69 26 0 0 0 0 0 0 8,69 27 0 0 0 0 0 0 8,69 28 0 0 0 0 0 0 0 8,68		0	0	0					197
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23		0	0	Ø	0	0	411		A
23		0	0	0	0	0	1,505 0100	del es a	871
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28 0 0 0 0 0 0 0		0	O			0			3 ( 0
		U	0	Ø	Ö	0	0		8.68
29 0 0 0 0 8 67		0	.0			0	1.30.75	970) 17	8.67
30 0 0 0 0 0 0 0		0	0						
1. (a) (2.4) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	31	D	0		6	The state of the s	241		

6 unches + Sumi 12 unches + win

#### Houghton Lake Dam Data for Dec 2019

SC	UTH	7 5	- oumma	r-8.1	1 W	nter	710		
D	ay	Chain	Chain	Boards	Chain	Chain	Chain	NORTH Rain/Temp	Coop
10		Gate 1	Gate 2		Gate 3	Gate 4	Gate 5	rvain remp	Gage
			23		-				
<u> </u>	1	0	0	0	0	0	0		010
<u> </u>	2	0	0	8	0	0	0		8,62
_	3	0	0	Ø	0	0	0		8.60
_	4	0	0	Ø	0	0	8		8.56
	5	_0	0	Ø	0	0	0		8.57
<u></u>	6	0	0	Ø	0	0	<u> </u>		0.51
	7	0	0	18	0	0		+	8.55
	8	0	0	Q	Ó	0	0	<del>                                     </del>	8,57
	9	0	0	0	0	0	0		0.5/
	10	0	9	0	0	0		-	8.60
	11	0	0	Ø	0	0	0		8.63
)	12	0	0	6	0	0	Ō		0,05
	13	O	0	Ø	13	0	0		8.65
	_14	0	0	8	0	0	0		
	15	0	0	0	0	0	٥		8.62
	16	0	0	0	0	0	0	10	8.60
100	17	· O	.0	Ø	0	0	0		8,59
2 2 1	_ 18	5	0	0	0	0	0		8.57
2,	19	0	0	Ø	0	0	n		8.57
200	20	0	0	0	0	0	0		8.55
7.77	21	0	0	0	0	0	0		8 52
30.5	22	0	0	Ø	0	0	O	16 a 2	8.53
	23	0	0	0	0	0	0		8.50
	24	0	0	10	0	0	0		8.50
14 W	25	0	0	8	0	0	0		
(EI,	26	0	Q.	10	0	0 .	0		8.48
e e	27	0	0	D	۵	ŏ	D		2.47
5. W <sub>e</sub>	28	0	0	B	.0	b	0		
[] (1) [] (1)		O	ð	b	0	0	0	. 600	8.45 2.47
1	30	-0	0	80	0	0	0	- C	260
u lu	31	0	0	do	0	0	0		8.64

#### Houghton Lake Dam Data for NOV 2019

SOUTH	1 5	umme	K- 81	1 W	inter '	710		
Day	Chain	Chain	Boards	Chain	Chain	Chain	NORTH Rain/Temp	0.55
	Gate 1	Gate 2		Gate 3	Gate 4	Gate 5	rain/remp	Gage
		<u> 13</u>	1					
1	0	0	4	0	0	Ö		8.43
2	0	0	B	0	0	0	<del> </del>	8,44
3	0	0	8	0	0	0		8,45
×:4	0	0	Ø	0	0	0		8,47
5	_ <u>Ŏ</u>	0	0	0	0	0		8.44
6	0	0	Ø	0	0	0	2.	8.48
7	0	0	8	0	0	0		8.45
8	0	0	Ø	0	0	D		8.48
9	0	0	B	0	0	0		8-51
10	0	0	B	0	0	D		8.45
11	0	0	B	0	0	0		8.45
12	2	0	9	0	0	0		8.50
13	0	0	<b>b</b>	0	0	0		8.50
14	0	0	8	0	0	0		8.48
15 16	<u>n</u>	0	8	0	0	0	<u> </u>	8.46
17	0	0	(7)	_0_	0	0		8.45
18	0	0	Ø	0	0	0		8.44
19	0	Ŏ	0	0	0	0	`	8.43
20		0	Ø	0	0	0		8.42
21	0	0	Ø	0	0	0		8.41
	0	0	8)	0		0		8.43
23	70	27 199-10		U	()			8.44
24	0	0	di	U	0		18	8 45
25	0	19	90	0	0	0.		8.44
26	0	-+1V	9	S.	0	0		844
12 197	r ()	. V .	18	Ô	0	0		8.43
28	*******	0	- 12		0	10	{	6.49
	0	0 -	10	0	0	U	- Sec	851
30	-0,	Ö	0	()	0	0		8,55
31		<u> </u>	V	(())	0	0		3,59

### Houghton Lake Dam Data for Oct 2019

Gate 1   Gate 2   Gate 3   Gate 4   Gate 5   Rain/Temp   Gage   Gate 5   Gate 4   Gate 5   Rain/Temp   Gage   Gate 5   Gate 5   Gate 6   Gate 5   Gate 6   Gate 6	SOUTH	7 9	- oumma	K- 81	^ W.	nla.	710		
Sale 1   Gate 2   Gate 3   Gate 4   Gate 5     1	Day	Oriani	Chain	Boards	Chain	Chain	Chain	NORTH Pain/Tomp	Coss
2 0 0 0 0 0 0 8.37 3 0 0 0 0 0 0 8.33 4 0 0 0 0 0 0 8.33 5 0 0 0 0 0 0 8.33 6 0 0 0 0 0 0 8.37 8 0 0 0 0 0 0 8.27 9 0 0 0 0 0 0 8.29 11 0 0 0 0 0 0 8.39 11 0 0 0 0 0 0 8.35 13 0 0 0 0 0 0 8.35 13 0 0 0 0 0 0 8.35 14 0 0 0 0 0 8.35 16 0 0 0 0 0 8.35 17 0 0 0 0 0 8.36 18 0 0 0 0 0 0 8.36 19 0 0 0 0 0 8.36 110 0 0 0 0 0 8.36 110 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 8.36 112 0 0 0 0 0 0 8.36 114 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 8.36 116 0 0 0 0 0 0 8.36 117 0 0 0 0 0 0 8.36 118 0 0 0 0 0 0 8.36 119 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 8.36 112 0 0 0 0 0 0 0 8.36 113 0 0 0 0 0 0 0 8.36 114 0 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 0 8.36 116 0 0 0 0 0 0 0 8.36 117 0 0 0 0 0 0 0 8.36 118 0 0 0 0 0 0 0 8.36 119 0 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 8.36 112 0 0 0 0 0 0 0 8.36 113 0 0 0 0 0 0 0 0 8.36 114 0 0 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 0 0 8.36 116 0 0 0 0 0 0 0 0 0 8.36 117 0 0 0 0 0 0 0 0 0 8.36 118 0 0 0 0 0 0 0 0 0 8.36 119 0 0 0 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 0 0 8.37	<b></b> -	Gate 1	Gate 2		Gate 3			rann remp	Gage
2 0 0 0 0 0 0 8.37 3 0 0 0 0 0 0 8.33 4 0 0 0 0 0 0 8.33 5 0 0 0 0 0 0 8.33 6 0 0 0 0 0 0 8.37 8 0 0 0 0 0 0 8.27 9 0 0 0 0 0 0 8.29 11 0 0 0 0 0 0 8.39 11 0 0 0 0 0 0 8.35 13 0 0 0 0 0 0 8.35 13 0 0 0 0 0 0 8.35 14 0 0 0 0 0 8.35 16 0 0 0 0 0 8.35 17 0 0 0 0 0 8.36 18 0 0 0 0 0 0 8.36 19 0 0 0 0 0 8.36 110 0 0 0 0 0 8.36 110 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 8.36 112 0 0 0 0 0 0 8.36 114 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 8.36 116 0 0 0 0 0 0 8.36 117 0 0 0 0 0 0 8.36 118 0 0 0 0 0 0 8.36 119 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 8.36 112 0 0 0 0 0 0 0 8.36 113 0 0 0 0 0 0 0 8.36 114 0 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 0 8.36 116 0 0 0 0 0 0 0 8.36 117 0 0 0 0 0 0 0 8.36 118 0 0 0 0 0 0 0 8.36 119 0 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 8.36 112 0 0 0 0 0 0 0 8.36 113 0 0 0 0 0 0 0 0 8.36 114 0 0 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 0 0 8.36 115 0 0 0 0 0 0 0 0 8.36 116 0 0 0 0 0 0 0 0 0 8.36 117 0 0 0 0 0 0 0 0 0 8.36 118 0 0 0 0 0 0 0 0 0 8.36 119 0 0 0 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 0 0 8.36 110 0 0 0 0 0 0 0 0 0 8.36 111 0 0 0 0 0 0 0 0 0 8.37			2.1						
2		$\overline{}$	0	0	0	0	0		977
3 0 0 0 0 0 0 0 8.34  4 0 0 0 0 0 0 0 0 0 8.33  5 0 0 0 0 0 0 0 0 8.34  6 0 0 0 0 0 0 0 0 8.31  8 0 0 0 0 0 0 0 8.31  8 0 0 0 0 0 0 0 8.31  8 0 0 0 0 0 0 0 8.31  10 0 0 0 0 0 0 8.32  11 0 0 0 0 0 0 0 8.32  12 0 0 0 0 0 0 0 8.35  13 0 0 0 0 0 0 8.35  14 0 0 0 0 0 0 8.35  15 0 0 0 0 0 0 8.35  16 0 0 0 0 0 0 8.36  17 0 0 0 0 0 0 8.36  18 0 0 0 0 0 0 8.36  19 0 0 0 0 0 8.36  20 0 0 0 0 0 0 8.34  21 0 0 0 0 0 0 8.34  22 0 0 0 0 0 0 0 8.34  23 0 0 0 0 0 0 0 8.34  25 0 0 0 0 0 0 8.34  26 0 0 0 0 0 8.37  27 0 0 0 0 0 0 8.37  28 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 8.37  22 0 0 0 0 0 0 0 0 8.34  23 0 0 0 0 0 0 0 0 8.37  26 0 0 0 0 0 0 0 8.37  27 0 0 0 0 0 0 0 8.37  28 0 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 0 8.37  21 0 0 0 0 0 0 0 0 8.37  22 0 0 0 0 0 0 0 0 0 8.37  23 0 0 0 0 0 0 0 0 0 8.37  28 0 0 0 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 0 0 8.37  21 0 0 0 0 0 0 0 0 0 8.37  22 0 0 0 0 0 0 0 0 0 0 8.37  23 1 0 0 0 0 0 0 0 0 0 8.37			0	D'	0	0		<del>                                     </del>	
4   0   0   0   0   0   0   0   0   0			0	18	0	+		<del> </del>	
6 0 0 0 0 0 0 0 8.40  7 0 0 0 0 0 0 0 8.31  8 0 0 0 0 0 0 0 8.29  10 0 0 0 0 0 0 8.29  11 0 0 0 0 0 0 0 8.32  12 0 0 0 0 0 0 8.35  13 0 0 0 0 0 0 8.35  14 0 0 0 0 0 0 8.35  15 0 0 0 0 0 8.35  16 0 0 0 0 0 8.36  17 0 0 0 0 0 8.36  18 0 0 0 0 0 0 8.36  19 0 0 0 0 0 8.36  20 0 0 0 0 0 8.36  21 0 0 0 0 0 0 8.36  22 0 0 0 0 0 0 8.36  23 0 0 0 0 0 0 8.36  24 0 0 0 0 0 0 8.36  25 0 0 0 0 0 0 8.36  26 0 0 0 0 0 0 8.37  27 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  20 0 0 0 0 0 8.37  21 0 0 0 0 0 0 8.37  22 0 0 0 0 0 0 0 8.37  23 0 0 0 0 0 0 0 8.37  24 0 0 0 0 0 0 0 8.37  25 0 0 0 0 0 0 0 8.37  26 0 0 0 0 0 0 0 8.37  27 0 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 0 8.37  30 0 0 0 0 0 0 0 0 8.37			0	8		10	<del></del>		027
T			0	8	0	0			
R		0	0	Ø	0	10		50	8,40
8 0 0 0 0 0 0 8.29  10 0 0 0 0 0 0 8.29  11 0 0 0 0 0 0 0 8.30  12 0 0 0 0 0 0 8.35  13 0 0 0 0 0 0 8.35  14 0 0 0 0 0 0 8.36  15 0 0 0 0 0 0 8.36  16 0 0 0 0 0 0 8.36  17 0 0 0 0 0 0 8.36  20 0 0 0 0 0 0 8.36  21 0 0 0 0 0 0 8.36  22 0 0 0 0 0 0 0 8.36  23 0 0 0 0 0 0 0 8.36  24 0 0 0 0 0 0 0 8.36  25 0 0 0 0 0 0 8.37  26 0 0 0 0 0 0 8.37  27 0 0 0 0 0 0 0 8.37  28 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  20 0 0 0 0 0 0 0 8.37  21 0 0 0 0 0 0 0 8.37  22 0 0 0 0 0 0 0 0 8.37  23 0 0 0 0 0 0 0 8.37  24 0 0 0 0 0 0 0 8.37  25 0 0 0 0 0 0 0 8.37  26 0 0 0 0 0 0 8.37  27 0 0 0 0 0 0 0 8.37  28 0 0 0 0 0 0 8.37  28 0 0 0 0 0 0 8.37  29 0 0 0 0 0 0 8.37  30 0 0 0 0 0 0 8.37  31 0 0 0 0 0 0 0 8.37  31 0 0 0 0 0 0 0 8.37		0	0		0	0			8.31
9 0 0 0 0 0 0 8.29  11 0 0 0 0 0 0 0 8.39  12 0 0 0 0 0 0 8.35  13 0 0 0 0 0 0 8.35  14 0 0 0 0 0 0 8.30  15 0 0 0 0 0 8.30  16 0 0 0 0 0 8.30  17 0 0 0 0 0 8.30  18 0 0 0 0 0 8.39  20 0 0 0 0 0 8.39  21 0 0 0 0 0 0 8.39  22 0 0 0 0 0 0 8.39  23 0 0 0 0 0 0 8.39  24 0 0 0 0 0 0 8.39  25 0 0 0 0 0 0 8.39  26 0 0 0 0 0 0 8.39  27 0 0 0 0 0 0 8.39  28 0 0 0 0 0 0 8.39  29 0 0 0 0 0 8.39  29 0 0 0 0 0 0 8.39  29 0 0 0 0 0 0 8.39  20 0 0 0 0 0 0 8.39  21 0 0 0 0 0 0 8.39  22 0 0 0 0 0 0 0 0 8.39  23 0 0 0 0 0 0 0 8.39  24 0 0 0 0 0 0 0 8.39  25 0 0 0 0 0 0 8.39  26 0 0 0 0 0 0 8.39  27 0 0 0 0 0 0 8.39  28 0 0 0 0 0 0 0 8.39  29 0 0 0 0 0 0 8.39	8	0			0	0			
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	0	0			Ŏ	10		8,24
11 0 0 0 8 0 0 0 8 35  13 0 0 0 0 0 0 8 35  14 0 0 0 0 0 0 0 8 30  15 0 0 0 0 0 0 8 30  16 0 0 0 0 0 0 8 30  17 0 0 0 0 0 0 8 30  19 0 0 0 0 0 0 8 30  20 0 0 0 0 0 0 8 36  21 0 0 0 0 0 0 0 8 36  22 0 0 0 0 0 0 0 0 8 36  23 0 0 0 0 0 0 0 8 36  24 0 0 0 0 0 0 0 8 36  25 0 0 0 0 0 0 0 8 30  26 0 0 0 0 0 0 8 30  27 0 0 0 0 0 0 0 8 32  28 0 0 0 0 0 0 0 8 34  30 0 0 0 0 0 0 8 34  31 0 0 0 0 0 0 0 8 34  31 0 0 0 0 0 0 0 8 34	10	0	0		0	0		-	
12 0 0 0 8 35  13 0 0 0 0 0 0 0 8 35  14 0 0 0 0 0 0 0 8 30  15 0 0 0 0 0 0 8 30  16 0 0 0 0 0 0 8 30  17 0 0 0 0 0 0 0 8 30  18 0 0 0 0 0 0 8 30  20 0 0 0 0 0 0 8 36  21 0 0 0 0 0 0 8 36  22 0 0 0 0 0 0 0 8 36  23 0 0 0 0 0 0 8 36  24 0 0 0 0 0 0 8 36  25 0 0 0 0 0 0 8 38  26 0 0 0 0 0 8 38  27 0 0 0 0 0 0 8 38  28 0 0 0 0 0 0 8 39  29 0 0 0 0 0 8 39  31 0 0 0 0 0 0 8 39  31 0 0 0 0 0 0 8 39	11	0		a	0			<del> </del>	8.39
14 0 0 0 0 0 0 8.30  15 0 0 0 0 0 0 8.30  16 0 0 0 0 0 0 0 8.30  17 0 0 0 0 0 0 8.30  19 0 0 0 0 0 0 8.30  20 0 0 0 0 0 0 8.30  21 0 0 0 0 0 0 0 8.30  22 0 0 0 0 0 0 0 8.30  23 0 0 0 0 0 0 0 8.30  24 0 0 0 0 0 0 8.30  25 0 0 0 0 0 0 8.30  27 0 0 0 0 0 0 8.39  28 0 0 0 0 0 0 8.39  29 0 0 0 0 0 0 8.39  31 0 0 0 0 0 0 0 8.39	12		0	8		0	10	<del> </del>	8.38
14 0 0 0 0 0 0 0 8.30  15 0 0 0 0 0 0 8.30  16 0 0 0 0 0 0 0 8.30  17 0 0 0 0 0 0 0 8.30  19 0 0 0 0 0 0 0 8.30  20 0 0 0 0 0 0 0 8.30  21 0 0 0 0 0 0 0 8.30  22 0 0 0 0 0 0 0 8.30  23 0 0 0 0 0 0 0 8.30  24 0 0 0 0 0 0 0 8.30  25 0 0 0 0 0 0 0 8.30  26 0 0 0 0 0 0 8.39  27 0 0 0 0 0 0 0 8.39  29 0 0 0 0 0 0 8.39  30 0 0 0 0 0 0 8.39  31 0 0 0 0 0 0 0 8.39	13	0	0	0		7.766	10		8,35
15 0 0 0 0 0 0 8.3 17 0 0 0 0 0 0 8.17 18 0 0 8 0 0 0 8.26 19 0 0 0 0 0 0 8.26 20 0 0 0 0 0 0 8.36 21 0 0 0 0 0 0 8.36 22 0 0 0 0 0 0 8.36 23 0 0 0 0 0 0 8.36 24 0 0 0 0 0 0 8.27 25 0 0 0 0 0 0 8.27 26 0 0 0 0 0 0 8.27 27 0 0 0 0 0 0 8.37 28 0 0 0 0 0 0 8.37 29 0 0 0 0 0 0 8.37 31 0 0 0 0 0 0 0 8.37	14		0	B	0		0		8,30
17 0 0 0 0 0 0 8 9 9 9 9 9 9 9 9 9 9 9 9 9	15	0	0	8	0	0			
18	16	0	0	B	0	0			
18	17	0	0	Ø.	0	0	0		
19 0 0 0 0 0 0 8 20 20 0 0 0 0 0 0 0 8 24 21 0 0 0 0 0 0 0 8 36 22 0 0 0 0 0 0 0 8 36 23 0 0 0 0 0 0 0 8 36 24 0 0 0 0 0 0 0 8 25 26 0 0 0 0 0 0 8 28 27 0 0 0 0 0 0 8 30 28 0 0 0 0 0 0 8 37 29 0 0 0 0 0 0 8 32 30 0 0 0 0 0 0 8 32	18	0	0	780	0				Q al
20 0 0 0 0 0 0 0 0 8.34 21 0 0 0 0 0 0 0 8.36 23 0 0 0 0 0 0 0 8.35 24 0 0 0 0 0 0 0 8.25 25 0 0 0 0 0 0 8.25 26 0 0 0 0 0 0 8.28 27 0 0 0 0 0 0 8.38 28 0 0 0 0 0 0 8.39 29 0 0 0 0 0 8.39 30 0 0 0 0 0 0 8.32	19	0	A		n	~	0		
21 0 0 0 0 0 0 8.36 22 0 0 0 0 0 0 0 8.36 23 0 0 0 0 0 0 0 8.35 24 0 0 0 0 0 0 8.27 25 0 0 0 0 0 0 8.28 26 0 0 0 0 0 8.28 27 0 0 0 0 0 8.38 28 0 0 0 0 0 0 8.39 29 0 0 0 0 0 8.39 30 0 0 0 0 0 8.39	20	0	0	Q	0	Ñ	0		
23 0 0 0 0 0 0 0 8.36 24 0 0 0 0 0 0 8.24 25 0 0 0 0 0 0 8.24 26 0 0 0 0 0 0 8.28 27 0 0 0 0 0 0 8.38 28 0 0 0 0 0 0 8.39 29 0 0 0 0 0 0 8.34 30 0 0 0 0 0 0 8.32		0	0	0	0		^		8-24
23 0 0 0 0 0 0 0 0 8.25 24 0 0 0 0 0 0 0 8.24 25 0 0 0 0 0 0 8.28 26 0 0 0 0 0 0 8.28 27 0 0 0 0 0 0 8.30 28 0 0 0 0 0 0 8.34 29 0 0 0 0 0 0 8.34 30 0 0 0 0 0 0 8.32	22	0	0	8	Õ	MARIE WATER	0	*	000
25 0 0 0 0 0 0 8.24 26 0 0 0 0 0 8.28 27 0 0 0 0 0 0 8.30 28 0 0 0 0 0 0 8.34 29 0 0 0 0 0 0 8.34 30 0 0 0 0 0 0 8.32	23	0	0	D	0	0			0.36
25 0 0 0 0 0 0 8.25 26 0 0 0 0 0 0 8.28 27 0 0 0 0 0 0 8.30 28 0 0 0 0 0 0 8.34 29 0 0 0 0 0 0 8.34 30 0 0 0 0 0 0 8.32	24	0	0	0	0	0	Ŏ ·	4.00	0.01
26 0 0 0 0 0 8.28 27 0 0 0 0 0 0 8.30 28 0 0 0 0 0 0 8.34 29 0 0 0 0 0 0 8.34 30 0 0 0 0 0 0 0 8.32	25	0			Õ	0			
27 0 0 0 0 0 0 8.30 28 0 0 0 0 0 0 8.34 29 0 0 0 0 0 0 8.34 30 0 0 0 0 0 0	26	0 -	-0	والمراجع والمناولات والمتالكات	0	0			
29 0 0 0 0 0 8.34 30 0 0 0 0 0 8.32	27	0	0	0	ŏ	Ö			8.08
29 7 0 0 0 0 0 0 0 8.32 30 0 0 0 0 0 0	28	.0	0			0			8-30
30 0 0 0 0 0 0		70				7.7 F	0		0.34
3-1 24 - 3 (V.) A 10 3X		-0	The second second				0	(A) (A)	8, 32
		0		8	O	^	Ö	7	200

#### Houghton Lake Dam Data for Supt 2019

OUTH Day	Chain	Chain	Popular	O WI	nter '	1.60	NORTH	
	Gate 1	Gate 2	Boards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
1								
2	C	<u>C</u>	5	10	10	C		8.4
3		C	5	C	C	C		8.3
4	C	<u> </u>	5	C	C	C		8.4
5	C		5	1	C	1		8.38
6	C	C	1	1		2		8,40
7	0	C	-	10	<u>C</u>	10		8.44
8	C	C	5	6	C	0		839
9	C	C	5	2	0		-	8.4
10	C	C	5	C	C	C		8.4º
11	C	C	5	C	C	C	<del></del>	8.45
12	_0	0	10	0	0	0	<del> </del>	8.45
13	0	0	D	0	0	0		0:75
14	0	0	0	0	0	0 .		8.3
15	0	0	Q	0	0	0		8.4:
16	0	0	0	_0_	0			8.41
17	-0	0 4	Q	0	0	0		8.43
18	0	0	Ø	0	0	0		8.40
20	. 0	0	0	0	U	0		8.39
21	0	8	8	0	0	0		8.35
22	10	0	0		0	0		8.35
23	-0	0	8	0	0	()	31	8.39
24	0	0	. 8	0	0	0		8.35
25	0	0	0	ŏ	0	0		8.39
26	0	10	80	a	0	a		8.37
27	0	0	0	0	O'	0		8.31
28	0	0	6	0	ň	0		8.29
29	10	0	80	0	0	0		
30	-0'	0	9	0	0	~		8.32 8.32
31					-	1		0.70(

## Houghton Lake Dam Data for Aug 2019

SOUTH	7 5	umme Ichain	<b>I</b> - O	1.0	1. (			
Day	Chain Gate 1	Chain Gate 2	Boards	Chain	Junain	9.101111	NORTH Rain/Temp	Gage
				Gate 3	Gate 4	Gate 5		Caye
1		C	5	C		C		ļ
2	<u> </u>	C	5	C				8.63
3	C	C		7				8.63
4	C	С	5	1 6	1-2-	<u> </u>		8.62
5	C	C	5	C		<u> </u>		8.61
6	C	(,	5	Č		C		8.61
7	C	Ć.	=			(		8.62
8	C	4	. <b>5</b>	C		C		8.63
9		6		<u> </u>	- $C$	C		8.57
	C	C	<u>5</u>	C	C	C		8.55
11		( "		C	C	С		8.57
12	C	0	5	C	C	C		8.58
13	Č		5	C	C	C	1	8.57
14			5	C	C	C		
15	C	0	5	С	C	C		8.55
16	2	C	5	. C	C	Č		8.5%
17	<u></u>		5	C	С	C		8.54
	(.	Call	- 5	C	C	(		8.57
18	C	(	5	C	Č	-		3.53
	· (	· Com	5	C	1-	+		3.5b
20	. (	21 C - 12	5	C	Ċ	1-2-	8	
21	C	( 22	5	C	(	<del></del>	8	.54
22	C	C	5	Ć.	(	1 6	8	
23	<u>C</u>	C	5	C	<u> </u>		8	.48
24	C		5	0		C	8	.49
25	( 2	C	5	C	C	<u> </u>	8.	5
26	( )	Č	5	(		C	8	.52
27	( -	7	5	6	C	C	R	40
28	C	7	5		C	C	R	.60
29	C	, C   15	- J	A.	C		8.	.44
30	0	7	5	C	. C	C	φ.	4/
31	C	C .	5	C .	C	C	Q Q	46 ,40
	10 Table 1	~	5	C	C	C	0	110

Houghton Lake Dam Data for	7
	July 2019

	SOUTH	1 5	11 100 100 0					10.0	' '	
	Day		umme  Chain	Boards		Win	Her	7.60	NOR	TH
8		Gate 1	Gate 2			aın te 3	Chain Gate 4	Chain	Rain/I	emp Gage
		ľ	ed.				Gate 4	Gate 5		
	1	C	-	1000				- 1		
	2	C	0	0		0	0	C		0 -
-	3	0	-0	0		D	0	C		8,71
	4	0	0	0		0	0	7		8.70
V	5	-	0	0		)	Ď	0		8.70
<b> </b>	6	0_	_0_	0		) :	0	0		8,71
H	7	0	0	0	D		0			8.78
-		0	0	O.	0		0	0		8.76
-	8	0	0	0	C		0	0		8.75
-	9	0	0	0	0					8,72
-	10	0	0	0	0		0	0		8.71
-	11	0	0	0	0		0	0		8.1.8
-	12	0	0	0	0		0	0		8.56
_	13	0	0	0	0		0/	0		8,58
	14	0	0	0	0		0	. 0		8.50
1	15	C	C	<u>a</u>		1	D	0		8.51
	16	0	C	1	C		<u>C</u>	C	43	8.57
L	. 17.	C	<u>C</u>	2	<u>C</u>	-	C	C		8.62
:	18	C.	£ .	3	2		2	C		8.62
	19	A 111 111		3			0	C		8.62
	20	C	Ĉ:	<del>d</del>	C		6	C		8.60
	21	C .	· C	2	C		C	C		10.00
	22	C	0	2	C	-		_		8.63
Le	23.	0 0	*****	5				C		8.59
i	24	0 7	v	5	C	(	2	C		111
	25		^		C		0	C		
	26	6		5	C	1/2	2	C		8.60
10	27	. 0	0	5	C	(		C		8.60 8.62
	28	C.	خ	5	C	(	1	Č		0.60
	29	C	0	5	. C	(		C		8.62
	30	0	<u> </u>	2	C	, (	) ii	C		
-	31	6.	C	5	C	(		C	- F	8.63
		5 50 p.		5	C			C		8.59
						10			90	<u>''</u> > 7

 $\epsilon$ 

### Houghton Lake Dam Data for June 2019

	SOUTH	1 5	umme	K- 8	10 11	Len		~		
	Day	Chain Gate 1	Chain Gate 2	Boards	Chain	, rre	cer r	( · (o)△ Chain	NORTH	
		-	Oale 2	+	Gate 3		Sate 4	Gate 5	Rain/Temp	Gage
					_ {					
	1	0	0	0	0	+	0			
	2	0	0	0	0	_	0	0		8.79
	3	0	0	0	0		0.	0		801.8
	5	0	0	0	0		0	0		8.69
	6	0	0	0	0		0	0		8.71
1	7		0	0	0		0	0		8,68
1	8	0	0	0	0		0	0		8.66
1	9		0	0	0		0	0	<del>  </del>	8.66
ŀ	10	0	0	0	0		0	0	+	8.64
F	11	6	0	0	0		0	D		8.63
4	12	C	0	9	0		0	O		8.54
	13		2	0	C		C	0		8.61
1	14	2	2	0	C		2	2		8.67
	15	C	C	0		(		C		8.71
T	16	0		0				Ċ.		8.85
	17	. (	0	8	0	_	C	C		8.89
	18	C	C	0	C	_		C		8.90
	19	C.	0		<u> </u>	2		C	(	8.91
L	20		$\sim$	0	0		>	C		3.87
	21	C		0	0	0		C		189
_	22	C	0	0	0	Ő		C	8	.82
	23	C	0	0	0	0		2	8.	83
	24	.C	Ŏ. · · · ·	0	Q	0		<u> </u>	8.	82
	25	C	0 "	0	0	0			8,	84
	26	C	0	0	0	0		C	8.	81
_		C (	3	7	2-1	0			8.	78
	28	<u>C</u> .	0	2		0			8.	78
	29	7 (	) 1.	0	0	9	. (		8.	78
_	30	C. (	9 .	0	0	0			-	74
	31				<del>-</del>	U	C		8-	74
	4	50 40	10000000							7

# Houghton Lake Dam Data for May 2019

Day	Chain Gate 1	Chain	Boards	Chain	Chain	Chain	NORTH	
	Cate	Gate 2	-	Gate 3	Gate 4	Gate 5	Rain/Temp	Gage
1	0	-	-					
2	0	0	10	10	0	0		8.8
3	0	0	0	0	0	O		8.9
<b>#4</b>	0	0	0	9	0	0		8.9
5	0	0	D	0	0	0		8.9
6	0	0	0	0	0	0		8.90
7	0		0		0	0		8.93
8		0	0	0	0	0		8'0
9	0	0	0	0	0	10		8.97
10	0	0	0	0	0	0		8.96
11	0	0	0	0	<del> </del>	0		_8,82
12	0	0	-0		0	10_		8.94
13	0	0	Õ	0	0	0		8.9
14	0	0	0	0	0	.0		8.88
15	D	0	0	0	0	0		_8.88
16	0	0	0	0	0	0	(%	8.85
17	0	0	0	0	D	6		8.91
18	0	0	0	0		0		8.82
	6	<b>6</b>	0	0	0	0		8.80
20	0	0	0	0		0		8,79
21	. 0		0	0	0	0		8.74
22	8	O	. 0	0	0	0		8.81
23	0	0	0	0	0	100000		8.85
24	.0	0	0	0		0		8.74
	.0.	0	0	0	0	0		7.79
26	0	0	0	0	0	0	- 8	.83
27	0 .	0	0	0	0	0		.81
28	0	0	0	0	0	and the second		3.84
29	0	0 :	0	0	O.	0	8	.84
30	0		3	0	0	0	\ <u>\%'</u>	80
31	0	0	0	0	0	0		80 80

Houghton Lake Dam Data for Opn		
apr	نا	2019

SOUTH Day	Chair 5	umm	er-8.	10 1	Vinla	7.60		
Jay	Chain Gate 1	- I official	Boards	Chain	Chair	1,00	NORTH	1
	Jale 1	Gate 2		Gate 3	Gate	Chain Gate 5	Rain/Temp	Gage
		19				- Cate 5		<del> </del>
1	0	0	D	\ \frac{1}{12}				1
2	0	0		0	0	0		825
3	۵		0	0	0	0		8,25
4	0	0	9	0	0.	0		8,21
5	0		\$	0	0	0	+	8.2
6		0	9		. 0	0		8.2
7	10	0	0		0			8,3
		0	10	O	0	0		8.3
8	8		0			10		8.3
9	0	0	8	0	0	0		8.40
10	0	0		0	0	0		8.4
11	0	0	90	0	0	0		8.4
12	0	0	8	0	0	0		8.61
13	0			0	10	0	† <del></del>	0.01
14	0	0	0	0		0		8.60
15		0	Ø	0	0	0	<del> </del>	8.59
16	0	0	18	0	0	0		8.56
17	0	0	Ø	0	0	0		8.63
	0	D	4	6	D			8.71
18	0	.0 *	0	0	0	0		3.82
19	0	0	0	0		0		3,79
20	-	·(C)	0	0	0	0		3,86
21	6		8	0	0	0		3.90
22	. 0	O	0		<u> </u>	0	{	,94
23.	0		7	0	0	0	{	192
24	0	0	20	U	0	0	15	77
25		0	0	0	0		0	172
26	0.	5	Q	O	0	0	- 0	192
27 (	11.70		8	0	0	0		.88
100	2 . (	2	0	0	0	0		192 192 188 184 193 187
		)	4	0	0	0	\ <u>\S</u>	84
20			D.	0	0	0	8	93
	0 0	35.4	Q	0	_0	~	8	.87
31		A	2			0	8,	89

ginches about Summer 15+w

9 unches over sun

Houghton Lake Dam Data	for Manch 2019
Summer - 8.10	Winter 760 =

SOUTH	SOUTH	1 5	ummo	Jr - A	\ \\\		7/001	1	
Cale 3   Cale 4   Cale 5   Cale 6   C	Day		- Tonain	Boards	Chain	Chain	(+60)	NORTH	
1		Oate 1	Gate 2		Gate 3	Gate 4		Rain/Temp	Gage
2	ļ			1					<del> </del>
3   0   0   0   0   0   0   0   0   0		0	0	(4)	0	-	-		
3		0	0	8					7.95
5 0 0 0 0 0 0 7.93 6 0 0 0 0 0 0 7.93 7 0 0 0 0 0 0 0 7.93 8 0 0 0 0 0 0 7.93 9 0 0 0 0 0 0 0 7.89 11 0 0 0 0 0 0 0 7.88 13 0 0 0 0 0 0 7.88 14 0 0 0 0 0 0 7.88 15 0 0 0 0 0 0 7.88 15 0 0 0 0 0 0 7.88 15 0 0 0 0 0 0 8.01 17 0 0 0 0 0 0 8.01 18 0 0 0 0 0 0 8.01 19 0 0 0 0 0 0 8.03 22 0 0 0 0 0 0 0 8.03 23 0 0 0 0 0 0 0 8.03 24 0 0 0 0 0 0 8.03 25 0 0 0 0 0 0 0 8.03 26 0 0 0 0 0 0 8.04 26 0 0 0 0 0 0 8.04 27 0 0 0 0 0 0 8.04 28 0 0 0 0 0 0 8.06 30 0 0 0 0 0 8.06 31 0 0 0 0 0 0 8.06		0	0						7.94
6 0 0 0 0 0 0 7.93  7 0 0 0 0 0 0 0 7.93  8 0 0 0 0 0 0 0 7.93  9 0 0 0 0 0 0 0 0 7.89  11 0 0 0 0 0 0 0 0 7.89  12 0 0 0 0 0 0 0 7.88  13 0 0 0 0 0 0 0 7.88  14 0 0 0 0 0 0 0 7.88  15 0 0 0 0 0 0 0 7.88  15 0 0 0 0 0 0 0 8.01  18 0 0 0 0 0 0 8.01  19 0 0 0 0 0 0 8.01  21 0 0 0 0 0 0 8.01  21 0 0 0 0 0 0 8.03  22 0 0 0 0 0 0 8.03  23 0 0 0 0 0 0 8.03  24 0 0 0 0 0 0 8.03  25 0 0 0 0 0 8.03  26 0 0 0 0 0 8.03  27 0 0 0 0 0 8.03  28 0 0 0 0 0 0 8.03  29 0 0 0 0 0 0 8.18  31 0 0 0 0 0 0 8.18  31 0 0 0 0 0 0 8.18  31 0 0 0 0 0 0 8.18  31 0 0 0 0 0 0 8.18			0			1000			7.93
To   To   To   To   To   To   To   To									
8 0 0 0 0 0 0 7,92  9 0 0 0 0 0 0 0 7,89  11 0 0 0 0 0 0 0 7,89  12 0 0 0 0 0 0 0 7,88  13 0 0 0 0 0 0 0 7,88  14 0 0 0 0 0 0 0 7,88  15 0 0 0 0 0 0 7,88  15 0 0 0 0 0 0 8,00  16 0 0 0 0 0 8,00  17 99  17 0 0 0 0 0 0 8,00  18 0 0 0 0 0 8,00  19 0 0 0 0 0 8,00  20 0 0 0 0 0 8,00  21 0 0 0 0 0 0 8,00  22 0 0 0 0 0 0 0 8,00  23 0 0 0 0 0 0 8,00  24 0 0 0 0 0 0 8,00  25 0 0 0 0 0 0 8,00  26 0 0 0 0 0 0 8,00  27 0 0 0 0 0 0 8,00  28 0 0 0 0 0 0 8,00  29 0 0 0 0 0 0 0 8,00  20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	9	0	<del>                                     </del>			
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12 0 0 0 0 0 0 7.88  13 0 0 0 0 0 0 0 7.88  14 0 0 0 0 0 0 0 7.88  15 0 0 0 0 0 0 7.99  17 0 0 0 0 0 0 0 7.99  18 0 0 0 0 0 0 8.01  19 0 0 0 0 0 0 8.01  21 0 0 0 0 0 0 0 8.03  22 0 0 0 0 0 0 0 8.03  23 0 0 0 0 0 0 0 8.03  24 0 0 0 0 0 0 8.09  26 0 0 0 0 0 0 8.09  26 0 0 0 0 0 0 8.09  26 0 0 0 0 0 0 8.09  28 0 0 0 0 0 0 8.09  28 0 0 0 0 0 0 8.09  28 0 0 0 0 0 0 8.09  28 0 0 0 0 0 0 8.00  30 0 0 0 0 0 8.00  31 0 0 0 0 0 0 0 8.00  31 0 0 0 0 0 0 0 8.00  31 0 0 0 0 0 0 0 8.00  31 0 0 0 0 0 0 0 0 8.00				Ø	0	10	0		
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17				0	0				8.00
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23		0	0	9	0			\\ \frac{\delta}{\delta}	.03
24 0 0 0 0 0 0 8.06 25 0 0 0 0 0 0 8.09 26 0 0 0 0 0 0 8.10 27 0 0 0 0 0 0 8.10 28 0 0 0 0 0 0 8.16 30 0 0 0 0 0 0 8.16 31 0 0 0 0 0 0 0 8.18			(	0		0			
25 0 0 0 0 0 0 8.10 26 0 0 0 0 0 0 8.10 27 0 0 0 0 0 0 8.10 28 0 0 0 0 0 0 8.13 29 0 0 0 0 0 0 8.16 30 0 0 0 0 0 8.18 31 0 0 0 0 0 0 8.18		0	7	0	0	0	0		
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27 0 0 0 0 0 8./3 28 0 0 0 0 0 0 8./3 29 0 0 0 0 0 0 8./6 30 0 0 0 0 0 0 8./8 31 0 0 0 0 0 0 0 8./8			$\frac{1}{2}$	0	0		Ó	0	109
28 0 0 0 0 8.73 29 0 0 0 0 0 0 8.76 30 0 0 0 0 0 0 8.78 31 0 0 0 0 0 0 8.78		.0.0	0	Q	0	0	0	8	10
29 0 0 0 0 0 0 8.16 30 0 0 0 0 0 0 8.18 31 0 0 0 0 0 0 8.30		<u>7</u>	<del>2</del>	Q		0	0	8	10
30 0 0 0 0 0 8.78		<u>ŏ</u> +		Ø.	3	-			
31 0 0 830						(3)	-	8	18
		7	0	8	0	0	5	0,	20
	(1 <u>+</u> )1		<u> </u>	Q I	0	0		8.	12

Houghton Lake Dam Data for 100 2019

SOUTH Day		Chain	Jr - 8.1 Boards	O W	inter	7.60	NORTH	7
-	Gate 1	Gate 2	Doards	Chain Gate 3	Chain Gate 4	Chain Gate 5	Rain/Temp	Gage
		1				Gale 5		—
1	0	0	8	1	<del></del>			
2	0	0	80	18	0	0		7.9
3	0	0	Ø	0	0	0		7.9
5	_0_	0	Ø	0	0	0		7.9
6	0	0	\$	0	0	0		7.9
7	<u>0</u>		0	0	0	0	<del>  </del>	7.92
8	0	0	1 Q	0	0	0		7.95
9	0	0	10	0	0	D		7.9
10	0	0	0	0	0	0		7.98
11	0	Ö	0		0	0	·	7.97
12	0	0	8	0	0	0		7,97
13	0	0	Ø	0	0	0		7.96
14	0	0	Ø	0	0	0		8,00
15 16	0	0	8	0	0	0		7,99
17	0	0	P	0	0	0		7.98
18	.0.	0	80	0	0	0		7.97
19	0	0	Q	0	0	0	F	7.96
20		0	Ø	0	0	0	T	1,95
21	4.4	0	8	0	0	0		1,95
22	0 .	0	8	0	0	0	7	94
23		7)	0	0	0	0	- +7	
24		0	0	0	0	0		. 93
		0 ,	0	0	0	0	7	96
0.7	0.	0	0	0	0	0		96
100	0	9	Ď		0	0		95
29	<del>-</del>	50	9.	1 January 1		0	7,	95
30	2.3	1	8				<del></del>	95
31	1	83						

I man below su

- 1	Hough	ton Lak	e Dam	Data fo	r	Tax			
SOUTH Day	Chain Gate 1	umme Chain Gate 2	اراً۔ Boards	Chain	lona	Jar 7.60 in Ch	٥	NORTH	]
			+	Gate 3	Gate	€4 Ga	te 5	Rain/Temp	Gage
1	0	0	do	-	-				
2	0	0	D	0					8.07
3	<u>(6)</u>	0	K	6					8.07
5	<u>カ</u>	0	0	0	2				8,07
6	8	0	10	10			-		8.06
7	60	చి	0	10	0		).		8.05
8	0	0	0	10	<u> </u>				8.07
9	6	0	0	10	- C				809
10	400		N	0	0				808
12	0		<u>Ø</u>	0		0			8.08
13		0	0	0	0				8.08
14		9	0	0	0	.0	)	5	8,06
15	400		0	0	10	- 0		.5	3.06
16	@ 6	3	0	0	10	- 0		\	,05
17.	4972	25	Ø	0	0	0		8	3,04
19	JP 11		Ø	O	0	0			803
20		5	0	0	(3)	0		8	,02
21	0 0		2	0		0		8	00
22	0	O	8	0	0	0		7	.00
23	0 0	The state of the s	.8.	0	0	0		7.	99
24 25	0. 3	). · ·	0	0	0	10			97
26	0	)	0	8	0	10		70	99
27	3 0		0	2	0	0	-		98
28			0	0	0	0		7.	97
29	0	5	8	<del>3</del> +	(7)	0		7,0	19
30	5. C	) //	0	0 .	0	0		5,8	)
31	010	)	\$	۵	0	18		8.0	
	9 9 2			100		-		. 8.0	20