

TABLE OF FLUCTUATIONS of the Bay of Fundy Tide Water Supply at the Low Water Level of 85 above Datum, based on the above formulas.

Date.	Elevation of High Water Surface in Cumberland Basin.	Elevation of Reservoir Surface at beginning of each Tidal Influx.	M, Total Rise of the Tide above Reservoir Surface.	N, Rate of Rise per Hour at the beginning of the Tidal Influx.	T, Time occupied by the Tide in rising H feet above Reservoir Surface.	T', Duration of Slack Water.	v	v <sub>1</sub>	v <sub>2</sub>	v <sub>3</sub>	Q, Total Volume of Waters supplied at each Tidal Influx.	Mean Volume of Surplus Water remaining in Canal and Reservoirs above 85 at beginning of each Influx.	Total Volume of Surplus Water stored up in Canal and Reservoirs at end of each Influx.
Oct.	Feet.	Feet.	Feet.	Feet.	Seconds.	Seconds.	Cubic Feet.	Cubic Feet.	Cubic Feet.	Cubic Feet.	Cubic Feet.	Cubic Feet.	Cubic Feet.
12	89.95	88.00	1.95	4.10	2784	600	8,600	2,352,000	7,196,000	9,859,000	80,850,000	80,850,000	
13	88.95	87.78	1.17	3.25	1980	600	8,600	4,843,000	6,004,000	3,241,000	74,680,000	78,121,000	
14	88.65	87.67	0.98	3.10	2100	600	2,610,000	8,873,000	6,125,000	2,610,000	72,121,000	74,531,000	
15	88.40	87.55	0.85	3.00	1560	600	1,751,000	5,000,000	6,333,000	1,751,000	68,731,000	70,492,000	
15	87.40	87.35	0.71	2.75	1385	600	1,253,000	6,125,000	6,731,000	1,253,000	64,479,000	66,730,000	
15	86.70	87.22	0.18	1.30	580	600	103,000	11,458,000	6,735,000	103,000	59,745,000	61,735,000	
16	86.00	86.71	.....	.....	.....	600	.....	13,750,000	7,149,000	.....	54,850,000	56,990,000	
16	85.50	86.55	.....	.....	.....	600	.....	.....	.....	.....	47,850,000	49,900,000	
17	85.00	86.33	.....	.....	.....	600	.....	.....	.....	.....	41,850,000	43,900,000	
17	85.00	86.11	.....	.....	.....	600	.....	.....	.....	.....	35,850,000	37,900,000	
18	85.30	85.60	0.04	0.69	110	600	8,600	2,352,000	7,196,000	8,600	29,850,000	31,900,000	
19	86.00	85.66	0.36	0.56	.....	600	.....	.....	.....	.....	23,850,000	25,900,000	
19	86.20	85.25	0.95	3.00	1380	600	2,013,000	5,000,000	6,004,000	2,013,000	17,850,000	19,900,000	
20	86.40	85.10	1.30	3.60	1380	600	3,714,000	6,125,000	6,731,000	3,714,000	11,850,000	12,900,000	
20	87.10	85.02	2.08	4.20	1310	600	.....	.....	.....	.....	6,728,000	7,788,000	
21	87.80	85.25	2.55	4.30	920	600	.....	.....	.....	.....	2,711,000	3,771,000	
21	88.80	85.62	3.18	5.40	3780	600	.....	.....	.....	.....	455,000	555,000	
22	89.90	86.19	3.71	5.70	3920	600	.....	.....	.....	.....	6,534,000	7,594,000	
22	90.50	86.93	3.57	5.70	3940	600	.....	.....	.....	.....	16,000,000	17,060,000	
23	91.50	87.63	3.87	6.10	4020	600	.....	.....	.....	.....	31,391,000	32,451,000	
23	.....	.....	.....	.....	.....	600	.....	.....	.....	.....	52,009,000	53,069,000	
23	.....	.....	.....	.....	.....	600	.....	.....	.....	.....	70,897,000	71,957,000	

DEPARTMENT OF PUBLIC WORKS,  
OTTAWA, December, 1873.

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