

Feet.

108.53

100.00

91.85

90.45

74.15

72.36

18.80

— 1.60

bench mark was
front of Mrs.
middle of a
is a wooden
k, landwards,
rom the shore

ound, but the
nite-work has
ave occurred.

Feet.

105.80

98.75

99.10

100.00

93.90

64.20

63.00

k.

29.00

5.50

27.00

1.40

situated on
t used as a
at the end
rk above.
oach & Co.,
The point
rner of the

Feet.

10.00

10.03

8.26

5.19

3.70

1.07

The surface of the mud beach in front of the wharf is one foot below the inlet to the tide column. The beach is there at much the same level as at the other wharves. Hence the greatest rise of the tide against the wharves is nearly 14 feet.

The buildings above described were burnt when the town of Windsor was destroyed, in the autumn of 1897; but as they have been rebuilt on their old foundations, it is not likely that any settlement will occur to effect the elevation of the points used as bench marks.

Parrsboro.—Bench mark for the tide gauge at Parrsboro pier, near Partridge Island. The mark is a chisel line and broad arrow, cut on a sound stone in the south wall of a small stone building, formerly used as a school, now used as an ice house, situated as follows: At 290 feet from the shore end of the pier, along the main road leading northward to the town of Parrsboro, a cross road turns off to the westward; and the building is on the north side of this cross road, at 200 feet along it from the corner.

	Feet.
Elevation adopted for this Bench Mark	100.00
Top of timber cap of pier, at shore end	57.02
Top of cap, at outer end of pier	52.55
Extreme high water which overflows the greater part of the pier:—Highest point reached by the tide on planking of the pier, as pointed out by Dr. Deerbome who has occupied a cottage close to the head of the pier for several seasons. . .	56.69
Beach of coarse gravel which slopes back on the inland side; extending in a wide sweep from the pier to Partridge Island. It is overflowed at extreme tides.	
Elevation of top of beach near the pier	56.30
High tide which overflowed the pier in July, 1898, as marked near the top of a mooring post by the crew of the steamer, "Evangeline," which makes daily trips to Kingsport	55.53
Highest tide recorded on the gauge during the season of 1898: August 3rd, a.m.	54.85
Zero of Tide Scale, at the level of the inlet to the tide column	34.15
Surface of beach at outer end of the pier; dry at low water	18.25
Low water spring tides, observed when levels were taken, July 23rd, 1898	14.53

According to the best information that could be obtained, the tide falls at extreme low water about five feet below this low water of July 23rd. The difference between this level and the elevations for the extreme high tides as above given, would thus give 47 feet for the extreme range at Parrsboro.

Moncton.—The Moncton City datum was here made use of, which has been carefully established and referred to bench marks by Mr. G. W. McCready, while he occupied the position of City engineer. To avoid negative values, however, in extending the elevations to include tide levels, a plane of reference was adopted at 100.00 feet below the City datum. This merely amounts to adding 100 feet to the elevations, as measured from the City datum. The addition is made in all the elevations here given.

City Bench Mark.—Surface of the stone door-sill of the City Building, at the east side of the entrance, where it is not worn. Elevation, 128.16.

On a brick building on a stone foundation, at the south-east corner of Duke and Main streets; diagonally opposite the Post Office. The point used as a bench mark is the top of the stone foundation at the corner of these streets; which is about an inch above the level of the asphalt side walk. Elevation, 133.54. (This bench mark was used for reference in determining all the tide levels of this season.)

Bench Mark of the Public Works Department; at the front end of the Sugar Refinery. Surface of the door sill at the east side of the eastern entrance. Elevation, 119.33. (The elevation of this bench mark above the Public Works datum is 101.27; high water spring tides being taken as 100.00.)

	Feet.
The Saxby Tide at Moncton; the highest tide known in the Bay of Fundy; which occurred October 5th, 1869.	126.09
Exceptionally high tide, October 12th, 1887; as marked by the Harbour Master. . .	119.66
Exceptionally high tide, October 8th, 1896; from levels taken by the L.C.R.	
Engineers at the time, by request of the Tidal Survey	118.91