

Remous.

The Remous boom and piers are situated in the Ottawa River, about four miles above this city. Their construction in 1857 became a matter of necessity on account of the frequent breaking loose of bands of square timber and parcels of saw-logs in dangerous proximity to the rapids below. The usefulness of these works, by way of saving valuable property, since they came into operation, has made itself apparent to those engaged in the Ottawa lumber trade.

This is a single boom supported by five piers its length is 7,920 feet.

Chats.

At the Chats Station, about 33 miles above this city, a crib slide was built by the late Mr. George Buchanan, to overcome a fall of 42 feet. The Government, for the same reason that prompted the purchase of the Hull slide, resumed possession of the slide channel at the expiration of a lease that had been given to Mr. Buchanan by the proper authorities; and since it came under the management of the Department the works have been rebuilt and very much extended and improved; and this is now one of the most serviceable slides in the Ottawa valley.

The works at this place consist of:—

	Feet in length
Pine guard pier on Island at entrance 10x12 feet.....	175
Flat dam, 12 feet high across timber channel, head of Victoria Island.....	250
Pine pier forming entrance bulkhead at upper end of canal, span 26 feet height 12 feet, canal leading to slide.....	1700
Crib slide, width 25 feet.....	350

In 1871 a dam 875 feet in length was built for the purpose of supplying water to the slide to facilitate the passage of late arrivals of timber; it is situated on a reef and constitutes a valuable low-water improvement.

Head of Chats.

At the head of Chats Rapids, about three and a-half miles further up the river than the last-mentioned station, three snubbing or mooring piers 18x20 feet were constructed in 1857. Rafts, preparatory to running the rapids, are moored to these piers, and the cribs are detached and passed through this reach of the river as occasion requires. Two of these piers have been wrecked and will have to be reconstructed this winter.

Cheneaux.

The Cheneaux boom is situated in the rapids at the head of the Chats Lake and about five and a-half miles below the village of Portage du Fort. It is kept in position by piers of ordinary construction, raised above water and by sunken or anchor piers. The growth of the staple trade of the Ottawa, in the direction of the manufacture of sawed lumber, in connection with the increased supply of square timber from the higher limits on this stream and its tributaries, compelled the construction of the Cheneaux boom in 1860.

The improvements at this station, with the various alterations, which from experience were found necessary in placing the booms, have been the means of holding in safety much valuable property that would otherwise have been wrecked and scattered over the whole expanse of the Chats Lake during the storms, that are of frequent occurrence there. About 1871, the business of this station, as regards the passage of saw-logs from the Upper Ottawa territory, had so increased as to demand the use of booms of very much greater strength and capacity than were in existence at that time; consequently the Government, in 1872-3, at a cost of about \$15,000, met