

- (2) A dam in the Long Sault Rapids at the head of Barnhart Island and two power houses, one on either side of the international boundary at the foot of Barnhart Island.
- (3) A side canal with one lock to carry navigation around the control dam at Iroquois and a side canal with two locks to carry navigation from Cornwall to the pool above the Long Sault dam.
- (4) Dykes where necessary on both sides of the border to retain the pool level above the Long Sault dam.
- (5) Excavation and dredging so that all navigation channels will have a depth of 27 feet.
- (6) The necessary railroad and highway modifications on either side of the international boundary.

III. The Effect

The effect of these works will be to create a huge lake extending from Prescott to Cornwall. The area appreciably affected by the work has a length of 32 miles by a width of from one to four miles. When it is realized that the average elevation along Highway No. 2 is 220, it will be seen that once the project has been completed everything within this area will be inundated to the extent of anywhere from 18 to 22 feet. Schools, churches, cemeteries, historic sites, communities will disappear.

The municipalities seriously affected by flooding are six in number:-

(a) In the County of Stormont

(1) Township of Osnabruck

(2) Township of Cornwall

(b) In the County of Dundas

(1) Township of Matilda

(2) Village of Iroquois

(3) Township of Williamsburg

(4) Village of Morrisburg

It is estimated that construction can be carried out in four to five years. It can be assumed that no flooding of the foreshore will occur until spring comes around approximately three years from the time of beginning construction. At that time flooding will be instantaneous. It is possible to raise the water in two stages. It is proposed to acquire all lands below elevation 248.

IV. The Problem

The problem is three-fold:

- (a) to preserve the scenic beauty of the area;
- (b) to rehabilitate the communities affected;