



(Merrickville 31<sup>6</sup>/<sub>2</sub>)  
**KEMPTVILLE**  
ONTARIO

Scale 1:50 000 - Échelle 1/50 000

Kilometres Kilometres  
Universal Transverse Mercator Projection  
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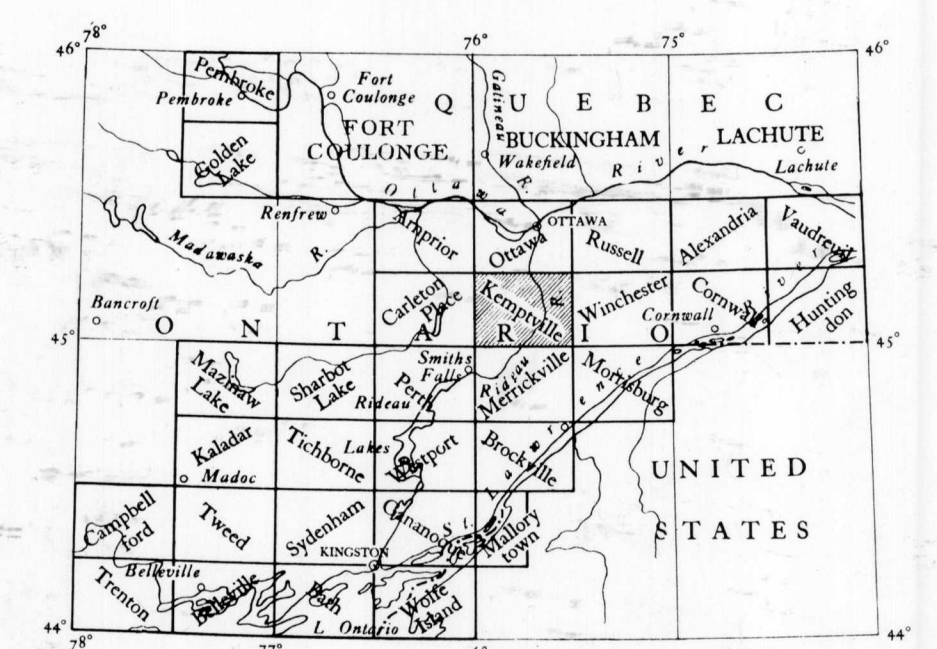
Surveyed and Reproduced by the Geographical Section, General Staff,  
DEPARTMENT OF NATIONAL DEFENCE.  
Original Survey 1906  
Revised 1934  
Reprinted 1940.  
Magnetic Declination 13°05' W. at North Gower, 1936.

REFERENCE

Main Highway (wide)		Gravel	Boundaries Provincial	
Secondary (narrow)		Gravel	County	
Other Roads		Open Street	Township	
Path		15	Electric Power Lines (On Steel Towers)	
Highway Route Numbers		On Wood Poles	Triangulation Station	
Railways		Station	Cemetery	
Pair Office		Telephone Exchange	Survey Monument	
Telephone or Telephone Trunk Route		Telephone Exchange		
Telephone Office				
Survey Monument				

REFERENCE

House		Church with Spire		Centre of circle is centre of Spire
Bar		Tower		100
Well		S.M. without spire		200
Grave or Floor		C.F. School		200
Chase		C.F. Marsh		200
Other Mill or Factory		Contours		200
Quarry		Depression		175
Sand or Gravel Pit		Cliff		
Woods, Deciduous		Submarine Contours		
Coniferous		Orchard		



Magnetic survey November 1947, and March 1948, by Geophysics Section, Geological Survey of Canada, Mines, Forests and Scientific Services Branch, Department of Mines and Resources, in collaboration with the Royal Canadian Air Force. Flights made through the courtesy of the Flight Research Section, National Research Council, Amprion, Ontario.

Magnetic contour intervals (total field):

- 500 gammas
- 100 gammas
- 20 gammas
- Magnetic depression contour
- Flight line
- Flight altitude: 1,000 feet above ground level

No correction has been made for regional variation; this increases at the rate of 3.5 gammas per mile from east to west and 3.0 gammas per mile from south to north.

The absolute magnetic intensity at the base station (latitude, 45° 25'; longitude, 76° 22') on August 26-27, 1947, was 58,362 gammas; for convenience in the present magnetic compilation, the magnetic datum has been taken at this station as 1,200 gammas.

The magnetic data superimposed on this topographic map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below, the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diorite, gabbro, or serpentinite, which have a relatively high iron content; but in special instances may be due, or partly due, to concentrations of magnetic ore minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced by the geologist into, or across, areas of low or no outcrops. In many instances, however, no present interpretation of particular anomalies may be possible.

NOTE: On the above index the sheets published are shown tinted green. Copies of these maps may be obtained from the Surveyor General, Department of the Interior, Ottawa. Price 25 cents.