

---

# Journal of Environmental Hydrology

ISSN 1058-3912

*Electronic journal of the International Association for Environmental Hydrology*

---

On the World Wide Web at <http://www.hydroweb.com>

---

JEH Volume 6 (1998), Paper 7, July 1998

Posted July 25, 1998

---

## AN INVESTIGATION OF CURVE NUMBER APPLICABILITY TO WATERSHEDS IN EXCESS OF 25000 HECTARES (250 KM<sup>2</sup>)

**R. Roy Johnson**

*Truro, Nova Scotia, Canada*

---

### **ABSTRACT**

*The objective of this study was to apply a continuous hydrologic model that uses the Curve Number method to a large undeveloped watershed, calibrate the model and obtain parameter values; and, from the acquired information, to attempt to determine the general applicability of the Curve Number method to large watersheds. The results are generally favorable, with simulated flow results typically close to actual recorded values of flow. The general results of flow simulation are within 8 percent (simulated flow versus recorded flow). Given the number of potential sources of error other than catchment size, these results tend to indicate the appropriateness of the model for use on these study watersheds, as well as its applicability to other large watersheds.*

---

*Reference: Johnson, R. R.; An Investigation of Curve Number Applicability to Watersheds in Excess of 25000 Hectares (250 km<sup>2</sup>), Journal of Environmental Hydrology, Vol. 6, Paper 7, July 1998.*

---

### **CONTACT:**

**R. Roy Johnson, M.A.Sc.**

**184 Young Street**

**Truro, NS B2N 3X7**

**Canada**

**E-mail : [royjohnson@my-deja.com](mailto:royjohnson@my-deja.com)**

---

[HOME](#)