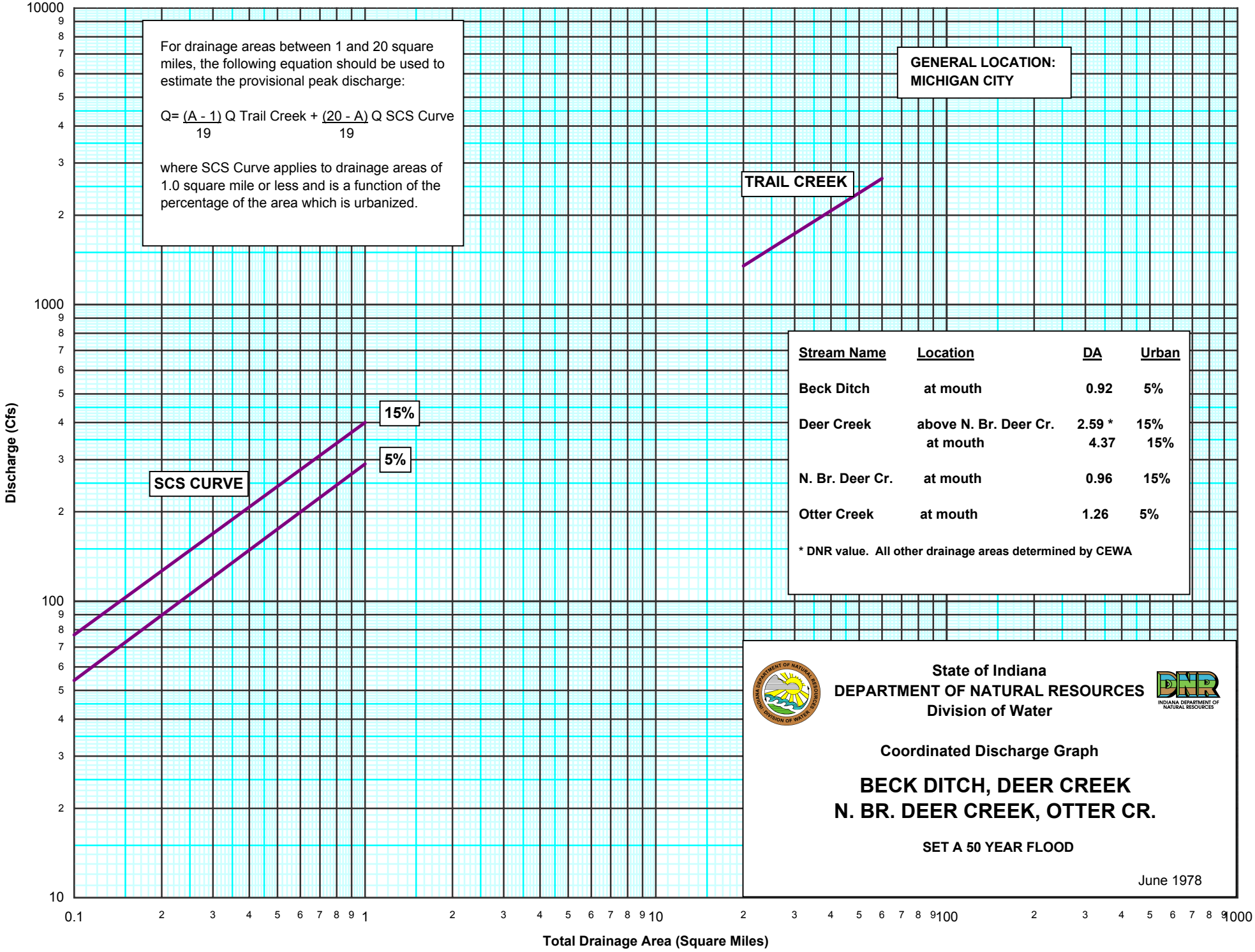
For drainage areas between 1 and 20 square miles, the following equation should be used to estimate the provisional peak discharge:

$$Q = \frac{(A - 1)}{19} Q_{\text{Trail Creek}} + \frac{(20 - A)}{19} Q_{\text{SCS Curve}}$$

where SCS Curve applies to drainage areas of 1.0 square mile or less and is a function of the percentage of the area which is urbanized.

**GENERAL LOCATION:**
**MICHIGAN CITY**




| Stream Name | Location | DA | Urban |
|---|---|---|---|
| Beck Ditch | at mouth | 0.92 | 5% |
| Deer Creek | above N. Br. Deer Cr. | 2.59 * | 15% |
| | at mouth | 4.37 | 15% |
| N. Br. Deer Cr. | at mouth | 0.96 | 15% |
| Otter Creek | at mouth | 1.26 | 5% |

* DNR value. All other drainage areas determined by CEWA

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Water

Coordinated Discharge Graph

## BECK DITCH, DEER CREEK
## N. BR. DEER CREEK, OTTER CR.

SET A 50 YEAR FLOOD

June 1978