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

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

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

TRAIL CREEK

SCS CURVE

20%

10%

5%

Stream Name	Location	DA	Urban
Bock Arm	at mouth	0.79	5%
Kimball Ditch	at mouth	1.29	20%
Lubke Arm	above 900 N. Rd.	2.13	5%
	at Bock Arm	3.73	5%
	at White Ditch	4.58	5%
White Ditch	at Lubke Arm	1.25	5%
	at Kimball Ditch	6.26	5%
	at Corporate Limit	7.56	10%

Discharge (Cfs) (y-axis)

Total Drainage Area (Square Miles) (x-axis)

State of Indiana
DEPARTMENT OF NATURAL RESOURCES
Division of Water

DNR
INDIANA DEPARTMENT OF NATURAL RESOURCES

Coordinated Discharge Graph

**BOCK ARM, KIMBALL DITCH
LUBKE ARM, WHITE DITCH**

SET B 25 YEAR FLOOD

June 1978