

HYDROLOGY WORKSHEET

OPERATOR _____ ADDRESS _____
 COMMUNITY _____ JOB APPROVAL CLASS _____
 FIELD OFFICE _____ DESIGNED BY _____ DATE _____
 FIELD NO. _____ CHECKED BY _____ DATE _____
 COUNTY _____ APPROVED BY _____ DATE _____

RUNOFF CURVE NUMBER

(1) SOIL NAME AND HYDROLOGIC GROUP EXHIBIT WV2-1	(2) COVER DESCRIPTION (COVER TYPE, TREATMENT, AND HYDROLOGIC CONDITION)	(3) CN (TABLE 2-3)	(4) AREA (ACRES OR %)	(5) PRODUCT OF CN x AREA (3) x (4)
TOTALS =				

USE CN = $\frac{\text{TOTAL COL. (5)}}{\text{TOTAL COL. (4)}} = \frac{\quad}{\quad} = \quad$ USE CN =

TIME OF CONCENTRATION

RAINFALL DISTRIBUTION TYPE _____
 AVERAGE WATERSHED SLOPE, Y _____ %
 FLOW LENGTH, *l* _____ FT.
 T_c USING *l*, Y, CN AND FIGURE 2-27, OR USING EQUATION 2-5 _____ HRS.

II

$$T_c = \frac{l^{0.8} \left[\left(\frac{1000}{CN} - 9 \right)^{0.7} \right]}{1140 Y^{0.5}} = \frac{(\quad)^{0.8} \left[(\quad)^{0.7} \right]}{1140 (\quad)^{0.5}} = \quad \text{HRS.}$$

RUNOFF

FREQUENCY _____ YR
 RAINFALL, P(24 - HOUR) EXHIBIT WV2-0 _____ IN
 INITIAL ABSTRACTION, I_a (USE CN WITH TABLE 2-4) _____ IN
 COMPUTE I_a/P RATIOS _____
 UNIT PEAK DISCHARGE q_u _____ CFS/AC/IN

DESIGN #1	DESIGN #2	DESIGN #3

(USE T_c AND I_a/P WITH EXHIBIT 2-11)
 RUNOFF, Q, (USE P AND CN WITH TABLE 2-2A) _____ IN
 PEAK DISCHARGE, q_{p1}, (WHERE q_{p1} = q_uAQ) _____ CFS
 POND AND SWAMP ADJUSTMENT FACTOR, F_p _____

(USE PG. N2-6 (1)), (USE "1.0" IF NO ADJUSTMENT REQUIRED)
 ADJUSTED PEAK DISCHARGE q_p (WHERE q_p = F_pq_{p1}) _____ CFS

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