

12.5 From Fig. 12.10

$$L = \text{length of watershed} = 29.6 \text{ mi}$$

$$W = \text{width of watershed} = 13.6 \text{ mi}$$

$$A = 258 \text{ mi}^2$$

$$\text{SLP} = (1661 - 1122) \text{ ft}/57.03 \text{ mi} = 9.451 \text{ ft/mi}$$

Eqs. 12.2 and 12.3 give: (note that this is extrapolating)

$$K = 27.0(258)^{.231}(9.451)^{-.777}(29.6/13.6)^{.124} = 18.7 \text{ hr}$$

$$t_p = 4.63(258)^{.422}(9.451)^{-.46}(29.6/13.6)^{.133} = 19.0 \text{ hr}$$