

THREE-PART PENALTY FACTOR -- YATES

① NORTH - SOUTH

$$P_a = \frac{\text{ORTHODOX FSL} - \text{ACTUAL FSL}}{\text{ORTHODOX FSL}}$$

$$P_a = \frac{660 - 330}{660} = 0.50$$

② EAST - WEST

$$P_b = \frac{\text{ORTHODOX FWL} - \text{ACTUAL FWL}}{\text{ORTHODOX FWL}}$$

$$P_b = \frac{1980 - 1225}{1980} = 0.38$$

③ EXCESS AREA

$$P_c = \frac{\text{AREA OUTSIDE ORTHODOX CIRCLE}}{\text{AREA OF ORTHODOX CIRCLE}}$$

$$P_c = \frac{74 \text{ ACRES}}{320 \text{ ACRES}} = 0.23$$

$$\text{PENALTY FACTOR} = \frac{1}{3} (P_a + P_b + P_c)$$

$$= \frac{1}{3} (0.50 + 0.38 + 0.23) = 0.37$$

$$\text{PENALTY} = 37\%$$

