

# New Allocation Model

$$\text{WMA}_1 \% \text{ Pheasant} = \frac{P_1}{P_{\text{sum}}} \times 100$$

$$P = A + C (D+1)$$

*P = pheasant factor; A = area variable; D = proximity to stamp buyer variable; C = field aggregate correction*

$$A = (1^{\text{st}} 60 \text{ ac} * 1) + (\text{ac} > 60 * 0.1)$$

$$C = \begin{array}{l} 0 \text{ if } < 6 \text{ field clusters/aggregates} \\ 15 \text{ if } 6 - 9 \text{ field clusters} \\ 30 \text{ if } 10 - 12 \text{ field clusters} \\ 45 \text{ if } > 12 \text{ field clusters} \end{array}$$

$$D = \begin{array}{l} 0 \text{ if } < 30\% \text{ w/in } 40 \text{ miles} \\ 0.15 \text{ if } 30\text{-}40\% \text{ w/in } 40 \text{ miles} \\ 0.3 \text{ if } 40\text{-}50\% \text{ w/in } 40 \text{ miles} \\ 0.5 \text{ if } > 50\% \text{ w/in } 40 \text{ miles} \end{array}$$

## Example: Pequest WMA

The Pequest WMA has 167 acres of stocked fields, 4 field clusters, and is within 40 miles of 42% of the Pheasant and Quail Stamp Buyers. Its P-score is calculated below.

$$\text{Step 1: } A = (60 \text{ ac} * 1) + (107 \text{ ac} * 0.1) = 71 \quad C = 0 \quad D = 0.3$$

$$\text{Step 2: } P_{\text{pequest}} = (71 + 0) (0.3 + 1) = 92$$

Step 3: Calculate percent of the total pheasants available statewide that will go to Pequest

$$\frac{P_{\text{pequest}}}{P_{\text{sum}}} \times 100 = \frac{92}{1,759} \times 100 = 5.2\%$$

Cumulative value of "P-scores" for all WMAs

Percentage of total birds available that are going to Pequest WMA