

# Estimating Soybean Yield Worksheet

1.) Count the number of pod-bearing plants in 1/1,000<sup>th</sup> of an acre.

7.5-inch rows count plants in 69 feet, 8 inches of row

15-inch rows count plants in 34 feet, 10 inches of row

30-inch rows count plants in 17 feet, 5 inches of row

**Number of plants in 1/1,000<sup>th</sup> acre** \_\_\_\_\_

2.) Estimate pods per plant by counting the number of pods (containing one or more seeds) from 10 plants.

Plant 1 \_\_\_\_\_

Plant 2 \_\_\_\_\_

Plant 3 \_\_\_\_\_

Plant 4 \_\_\_\_\_

Plant 5 \_\_\_\_\_

Plant 6 \_\_\_\_\_

Plant 7 \_\_\_\_\_

Plant 8 \_\_\_\_\_

Plant 9 \_\_\_\_\_

Plant 10 \_\_\_\_\_

**Total pod number** \_\_\_\_\_

(Add up total pods from 10 plants)

**Average pods/plant** \_\_\_\_\_

(Total pod number divided by 10)

3.) Estimate the number of seeds per pod by counting number of seeds from ten pods selected at random. Generally, number of seeds per pod is 2.5, but this number can be less in stressful environmental conditions.

Pod 1 \_\_\_\_\_

Pod 2 \_\_\_\_\_

Pod 3 \_\_\_\_\_

Pod 4 \_\_\_\_\_

Pod 5 \_\_\_\_\_

Pod 6 \_\_\_\_\_

Pod 7 \_\_\_\_\_

Pod 8 \_\_\_\_\_

Pod 9 \_\_\_\_\_

Pod 10 \_\_\_\_\_

**Total seed number** \_\_\_\_\_

(Add up total seeds from 10 plants)

**Average seeds/plant** \_\_\_\_\_

(Total seed number divided by 10)

4.) Estimate number of seeds per pound (seed size). Assume 3,000 seeds/pound. If the soybean plant experienced stress, seed size may be smaller (more seeds/pound). Use a seed size estimate of 3,500 seeds per pound if smaller seeds are expected because of late-season stress.

$$\text{bushels/acre} = [(\text{plants}/1,000^{\text{th}} \text{ acre}) \times (\text{pods}/\text{plant}) \times (\text{seeds}/\text{pod})] \div [(\text{seeds}/\text{pound}) \times 0.06]$$

\*Results are more accurate later in the growing season.

\*Results are more accurate if this calculation is done in several areas of the field.