

## **SOUTH CAROLINA YOUNG FARMER 1-ACRE CORN CONTEST**

### **PURPOSE:**

The Young Farmer 1-acre Corn Contest is designed to encourage Young Farmers to increase corn yields through the use of high quality certified seed, adequate fertilization and improved cultural practices.

### **GENERAL RULES AND REGULATIONS:**

1. Contest is open to all Young Farmer members in good standing with the South Carolina Association of Young Farmers of America.
2. Chapters may submit applications for awards in both non-irrigated and irrigated categories.
3. Entry blanks and work sheets for estimating yields must be submitted to the regional coordinator before December 1.
4. A committee selected by the Executive Committee to select the State winners.
5. All awards will be presented at the South Carolina Young Farmers Association State Convention.

### **AWARDS:**

\$100 cash and a certificate to the Second Place State Winner. *(in each category – irrigated and non-irrigated)*

\$200 cash and an engraved plaque to the State Winner. *(in each category – irrigated and non-irrigated)*



## WORKSHEET FOR ESTIMATING YIELD OF CORN

Name \_\_\_\_\_

Address \_\_\_\_\_

Variety \_\_\_\_\_

### MEASUREMENTS:

The harvested area **must be a contiguous area** and a minimum of **one acre**. There must be a minimum of two border rows of similarly produced corn on both sides of the harvested area. No end rows will be accepted.

Measurements must be calculated to the nearest **thousandth (three decimal points)** of an acre. Official yield must be calculated as shown in the example on the application form. Only combined yields will be eligible, no hand picking or gleaning is permitted. All combined weights must be corrected to 15.5% moisture. For moisture determinations, have a routine moisture sample run at an elevator purchasing corn or take three samples from a portable meter.

### CALCULATIONS:

TOTAL NUMBER OF ROWS X ROW WIDTH (A) ..... (A) \_\_\_\_\_ FT.

TOTAL LENGTH OF ROW HARVESTED (B) ..... (B) \_\_\_\_\_ FT.

WEIGHT OF CORN HARVESTED (C) ..... (C) \_\_\_\_\_ LBS.

AVERAGE MOISTURE OF SHELLED CORN (D)..... (D) \_\_\_\_\_ %  
 (add all three moisture determinations and divide by 3)

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ divided by 3 = (D)

1. To determine harvested acreage (E) ..... (E) \_\_\_\_\_ acres

$\frac{A \times B}{43,560} = (E)$  Harvested acreage      Example: A = 87 ft.    B = 700 ft.

$$\frac{87 \times 700}{43,560} = 1.398 \text{ acres harvested}$$

2. To determine bushels harvested at 15.5% moisture (F)..... (F) \_\_\_\_\_ bushels

$\frac{C \times (100 - D)}{4,732} = F$  Bushels harvested at 15.5% moisture

Example: C = weight of corn = 10,000 lbs.      D = 24% moisture

$$\frac{10,000 \times (100 - 24)}{4,732} = 160.609 \text{ bushels}$$

3. To determine bushels per acre (G), divide the bushels harvested (F) by the acreage harvested (E) ..... (G) \_\_\_\_\_ bu./ac

G = bushels per acre at 15.5% moisture.      Example:  $\frac{160.609}{1.398} = 114.885$