

# CALCULATING CORN YIELDS



## HOW TO FIGURE NUMBER OF BUSHEL PER ACRE

Harvest field length row. Weigh the grain harvested, moisture test, then divide the total pounds harvested by the appropriate weight per bushel to convert it to number 2 corn using the Moisture Conversion chart. This determines number 2 bushels harvested. Next, measure the row length harvested (in chains, 66') and multiply it by the number of rows harvested. Then, divide it by the factor (in chains) in the table below for your appropriate row width. This determines acreage harvested. To obtain bushels per acre, divide the number 2 bushels by the acreage harvested.

## HOW TO DETERMINE NUMBER OF PLANTS PER ACRE

Measure 1/1000 of an acre (see chart below) in several locations across a field. Count the plants, average, then multiply by 1000.

## HOW TO MEASURE HARVEST LOSS

- Ear corn
  - Every large ear (.7 lbs) per 1/100 acre equals about one bushel loss per acre.
  - Every 4 ears (.5 lbs) per 1/100 acre equals about 3 bushels loss per acre.

- Shelled corn
  - Two kernels per square foot equal one bushel loss per acre. Be sure to make several counts, then average.

| 1/1000 ACRE | ROW WIDTH | FACTOR TO FIGURE ACREAGE IN CHAINS |
|-------------|-----------|------------------------------------|
| 34' 10"     | 15"       | 528                                |
| 26' 2"      | 20"       | 396                                |
| 23' 9"      | 22"       | 360                                |
| 18' 8"      | 28"       | 283                                |
| 17' 5"      | 30"       | 264                                |
| 14' 6"      | 36"       | 219                                |
| 13' 9"      | 38"       | 208                                |
| 13' 1"      | 40"       | 198                                |