

With all the challenging conditions we have had, the Agronomy Team at United Farmers Cooperative has decided to help you with some standard replanting suggestions. Due to the current commodity prices the factors behind replant decisions change some. Our recommendation is that we would want to replant any irrigated stand under 23,000 plants per acre, and non-irrigated stands under 17,000 plants per acre. We recommend removing the old stand either mechanically or by the use of Gramoxone, these two ways allow immediate replanting. Any fields replanted prior to June 1st we suggest the use of hybrids in the 110-112 day maturity range, fields replanted between June 2nd through June 15th we recommend planting 107-109 day corn hybrids. This recommendation is based on natural ability corn hybrids to shorten maturity during the growing season. Below is a standard guideline to evaluate your stands and aid in the replant decision.

There are two standard ways of measuring population; the first is counting the number of emerged corn plants in a row length equal to 1/1000 of acre based of row width(*Table 1*). Randomly select an area of the field that looks like a representative sample. Use a tape measure to mark off the correct row length from table 1 and count the plants within that area. Multiply the number of plants by 1000 to get the plants per acre. Repeat this process in 7-8 field locations to get an average population. If you have areas of reduced populations that can be identified visually, you should count those as well and compare them to the average. The second method involves a measuring wheel. The selection of locations is the same as in the first method. At the starting point start counting plants and measuring with the wheel until you have counted 150 plants, then divide the number of feet traveled into the conversion factor for your row width (*Table 2*). For example, if you walked 82 feet while counting 150 plants in 30 inch rows the plant population is 31,873 plants per acre (2,613,600/82 feet). This use of a longer row length results in a more representative sample, and fewer sampling locations are required.

Row Width (Inches)	Row Length 1/1000 acre (feet, inches)
15	34' 10"
20	26' 2"
22	23' 9"
28	18' 8"
30	17' 5"
36	14' 6"
28	

Row Width (Inches)	Factor
20	3,920,400
30	2,613,600
36	2,178,000
28	2,063,350