

Colorado Corn Growers Assn.

Limited Water, Population, Root Development & Nitrogen Corn Study

Irrigation Research Foundation -- Yuma, CO Circle A

Plot Size: 4 rows/variety
 Planting Population: 31,500/26,500/21,500

Planting Date: 5/1/10
 Harvest Date: 10/5/10

Strip-Till: (analysis) 20.5 - 35.8 - 0 (applied 10 gal at 4" level & 12 gal @ 10" level)

(see graph for application dates & amts.)

Starter: (analysis) 30-40-0-4s-.053 Zn @ 19 gal./acre

Through Sprinkler: (analysis) 28-0-0-5

Herbicide Treatments

4/28/2010

Degree Xtra 4/28 @ 3 qt.
 Roundup 4/28 @ 32 oz./acre
 Class Act 4/28 @ .54qt./acre

6/10/2010

Round-up 32 oz./ acre
 AMS 17 lbs/100 gal.

Rainfall during growing season: 7.88"

| | 14.25" applied water Wet Block | | 7.18" applied water Dry Block | |
|-----------------------------|-----------------------------------|----------------------------|----------------------------------|---------------------------|
| Planted Populations → | 31,500 | 26,500 | 26,500 | 21,500 |
| Applied Nitrogen → | 112.4 lbs. of applied N | 112.4 lbs. of applied N | 87.6 lbs. of applied N | 87.6 lbs. of applied N |
| Root Type 3 / Croplan | 207.9 | 213.7 | 184.9 | 177.6 |
| Root Type 3 / Mycogen | 198.3 | 195.7 | 165.7 | 135.1 |
| Root Type 2 / LG Seeds | 225.3 | 226.4 | 171.3 | 146.1 |
| Root Type 2 / Pioneer | 263.6 | 221.5 | 158.2 | 188.1 |
| Root Type 1 / Channel | 193.7 | 202.9 | 162.7 | 134.0 |
| Root Type 1 / Dekalb | 194.5 | 200.1 | 128.8 | 141.0 |
| Root Type 1 / Fontanelle | 206.7 | 198.1 | 151.0 | 145.1 |
| Root Type 2/ Golden Harvest | 207.3 | 164.4 | 161.3 | 171.6 |
| Total Averages | 207.6 | 189.1 | 173.1 | 174.6 |

PLOT SUBJECT TO HIGH WINDS

Weather, daytime temperatures and other factors affect data results, as in any year.

The Irrigation Research Foundation strives to record and control these factors where possible.

Not all of these factors are measurable or recognized.