

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

Application Dates

(see graph for application dates & amts.)

Strip-Till: 20.5 - 35.8 - 0
Starter: 30-40-0-4suls-.53zn
Through Sprinkler: 28-0-0-5

Herbicide Treatments

4/28/2010

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

6/10/2010

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

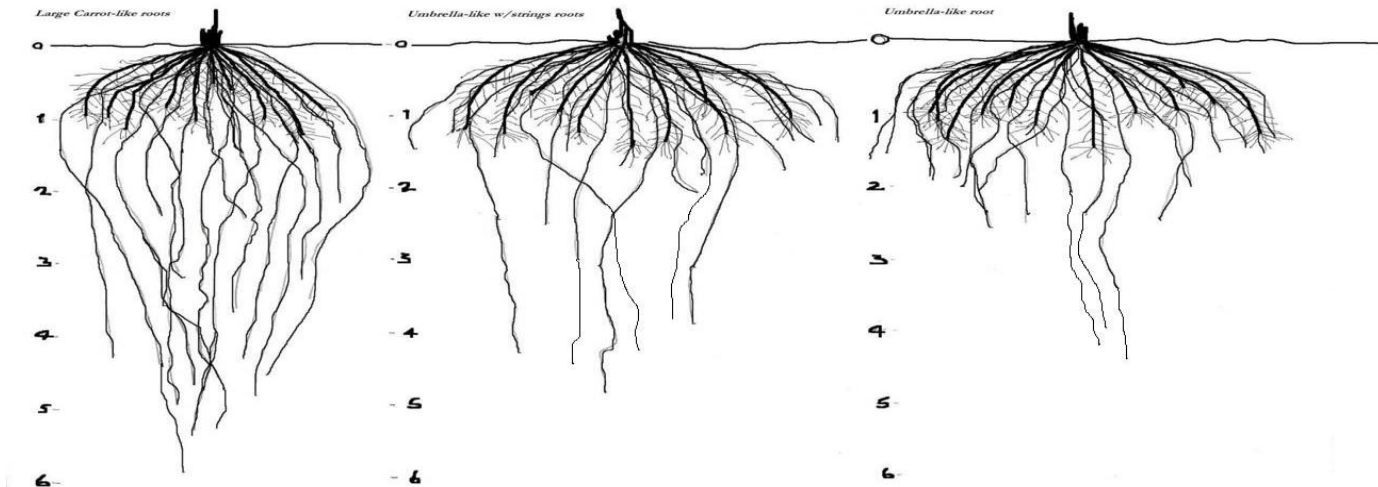
Yields Adjusted to 15.5% Moisture

	Wet Block		Dry Block	
	31,500 pop. 14.25" applied	26,500 pop. 14.25" applied	21,500 pop. 7.18" applied	26,500 pop. 7.18" applied
Rainfall during growing season: 7.88"				
Average Yield of Root Type 1	206.0	207.4	155.3	140.7
Average Yield of Root Type 2	228.7	212.2	160.5	161.1
Average Yield of Root Type 3	207.3	192.1	165.7	164.8

Type 1

Type 2

Type 3



112.4 lbs. total Nitrogen applied with 14.25" irrigation

87.6 lbs. total Nitrogen applied with 7.18" irrigation

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.

