

Automated Irrigation Deficit Study - Corn

Kugler

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Irrigation Research Foundation -- Yuma, CO

Circle E
Variety: Dekalb 56-55
Population: 33,500

Planting Date: 4/30/12
Harvest Date: 10/9/12

Application Dates

Strip-Till: Analysis=19-13-0

3/29/12

Actual=48.3-31.8-0 applied @ 4"- 10gal. and 10"- 13gal.

In-Furrow Starter: **LS924** @ 4gal./acre **KS Micro Max** @ 1pt./acre

4/30/12

Through Sprinkler: **32-0-0**

5/15 thru 7/17/12

total amounts of applied nitrogen per block:

*** Total applied water per block**

Block B 40 gal./acre
Block #1 41.3gal./acre
Block #2 39.3 gal./acre
Block #3 36.8 gal./acre
Block #4 30.8 gal./acre
Block A 30.8 gal./acre

Block B 17.98
Block #1 19.25
Block #2 19.25
Block #3 15.13
Block #4 15.13
Block A 15.01

Degree Xtra @ 2.9qrts/acre with Round-up @ 32oz./acre AMS @ 17lbs. With 100 gal. of water NIS @ 1qt./100 gal. of water 4/18/12

Status @ 4 oz./acre with Round-up @ 32 oz./acre AMS @ 17lbs.with 100 gal. of water NIS @ 1qt./100 gal. of water 6/11/12

Oberon @ 5oz./acre 7/20/12

Treatment		Moisture/ Test		
Dates	Trial #	Treatment	Weight	Yield
		Inches of applied water *		
	Block B	Control - No XRN	16.2/59	201.11
7/17/12	Block #1	6 gallon of 32% with 2 gallon of XRN	16.3/58	220.55
7/17/12	Block #2	4 gallon of 32% with 2 gallon of XRN	15.9/53	213.71
		Inches of applied water *		
7/17/12	Block #3	4 gallon of 32% with 2 gallon of XRN	16.2/58	207.97
7/17/12	Block #4	2 gallon of XRN	16.5/59	216.58
	Block A	Control - No XRN	15.9/59	197.85

Plants subjected to high winds and warm temperatures

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.