

Automated Irrigation Deficit Study - Corn

Amway

www.amway.com

Irrigation Research Foundation -- Yuma, CO

Circle E

Variety: Dekalb 56-55

Population: 33,500

Strip-Till: Analysis=19-13-0

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

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

Through Sprinkler: 32-0-0 as total amt applied: * **Total applied water per block**

Block B	40 gal./acre	128#'s	Block B	17.98
<u>Block #1</u>	41.3gal./acre	132#'s	<u>Block #1</u>	19.25
<u>Block #2</u>	39.3 gal./acre	126#'s	<u>Block #2</u>	19.25
<u>Block #3</u>	36.8 gal./acre	118#'s	<u>Block #3</u>	15.13
<u>Block #4</u>	30.8 gal./acre	99#'s	<u>Block #4</u>	15.13
Block A	30.8 gal./acre	99#'s	Block A	15.01

Planting Date: 4/30/12

Harvest Date: 10/9/12

Application Dates

3/29/12

4/30/12

5/15 thru 7/17/12

Blocks 1 thru 4 had the following Kugler products applied to the corn with the APSA 80 product

Block 1 6 gallon of 32-0-0 with 2 gallon of XRN applied on 7/17/12

Block 2 4 gallon of 32-0-0 with 2 gallon of XRN applied on 7/17/12

Block 3 4 gallon of 32-0-0 with 2 gallon of XRN applied on 7/17/12

Block 4 2 gallon of XRN applied on 7/17/12

Herbicide Treatments

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

Miticide / Insecticide Treatments

Oberon @ 5 oz./acre

7/20/12

Treatment Dates	Trial #	Treatment	Moisture/ Test Weight	Yield
Inches of applied water *				
4/30/12	Block B	15oz./acre of APSA 80	16.9/59	240.75
	Block B	Control	16.2/59	229.00
4/30/12	Block #1	15 oz./acre of APSA 80	15.7/61	205.77
	Block #1	Control	17.2/52	209.46
4/30/12	Block #2	15 oz./acre of APSA 80	17.9/60	185.07
	Block #2	Control	15.6/58	177.30
Inches of applied water *				
4/30/12	Block #3	15 oz./acre of APSA 80	17.6/59	212.15
	Block #3	Control	16.5/53	207.03
4/30/12	Block #4	15 oz./acre of APSA 80	16.9/59	227.54
	Block #4	Control	16.5/53	206.94
4/30/12	Block A	15 oz./acre of APSA 80	16.4/60	201.91
	Block A	Control	16.2/58	197.63