

Automated Irrigation Deficit Study - Corn

**Earth Tec Solutions**

[www.earthtecsolutions.com](http://www.earthtecsolutions.com)

*Irrigation Research Foundation -- Yuma, CO*

Circle E  
 Variety: Dekalb 56-55  
 Population: 33,500  
Strip-Till: Analysis=19-13-0

Planting Date: 4/30/12

Harvest Date: 10/9/12

**Application Dates**

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 as total amt applied:

Block B 40 gal./acre

5/15 thru 7/17/12

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

***Blocks 1 thru 4 had the following Kugler products applied to the corn***

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

<b>Inches of applied water = 18.62"</b>	Moisture/ Test wgt	Yield
High water block	16.2/59	222.88
<b>Inches of applied water = 15.07"</b>		
Low water block	15.9/59	208.04