

Automated Irrigation Deficit Study - Corn

Bio Lynceus, Inc.

www.biolynceus.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 **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 B 17.98
Block #1 19.25
Block #2 19.25

Blocks 1 thru 4 had the following Kugler products applied to the corn with the Bio Lynceus 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 Study #1	4 gal./acre of Lot-125 applied at planting time	16.4/58	236.92
4/30/12 6/4/2012	Block B Study#2	4 gal./acre of Lot-125 applied at planting time followed by 4 gal./acre of Lot-125 applied at V-4 stage	16.7/58	247.85
Control			16.5/53	207.42
4/30/12	Block #1 Study #1	4 gal./acre of Lot-125 applied at planting time	16.9/60	220.27
4/30/12 6/4/2012	Block #1 Study #2	4 gal./acre of Lot-125 applied at planting time followed by 4 gal./acre of Lot-125 applied at V-4 stage	17.1/60	227.84
Control			17/59	218.37
4/30/12	Block #2 Study#1	4 gal./acre of Lot-125 applied at planting time	17.8/60	196.24
4/30/12 6/4/2012	Block #2 Study#2	4 gal./acre of Lot-125 applied at planting time followed by 4 gal./acre of Lot-125 applied at V-4 stage	17.2/60	196.84
Control			16.2/58	177.30

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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 #3 36.8 gal./acre

Block #3 15.13

Block #4 30.8 gal./acre

Block #4 15.13

Block A 30.8 gal./acre

Block A 15.01

Blocks 1 thru 4 had the following Kugler products applied to the corn with the Bio Lynceus Lot-125 product

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

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

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

Block 4 2 gallon of XRN 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

		Inches of applied water *		
4/30/12	Block #3 Study #1	4 gal./acre of Lot-125 applied at planting time	16.6/61	195.86
4/30/12 6/4/2012	Block # 3 Study #2	4 gal./acre of Lot-125 applied at planting time followed by 4 gal./acre of Lot-125 applied at V-4 stage	16.4/58	202.84
		Control	14.9/58	162.76
4/30/12	Block #4 Study #1	4 gal./acre of Lot-125 applied at planting time	16.6/59	216.13
4/30/12 6/4/2012	Block #4 Study #2	4 gal./acre of Lot-125 applied at planting time followed by 4 gal./acre of Lot-125 applied at V-4 stage	16/58	209.62
		Control	16.5/59	206.94
4/30/12	Block A Study #1	4 gal./acre of Lot-125 applied at planting time	16.5/58	201.39
4/30/12 6/4/2012	Block A Study #2	4 gal./acre of Lot-125 applied at planting time followed by 4 gal./acre of Lot-125 applied at V-4 stage	15.6/58	199.33
		Control	15.9/59	199.36