

Irrigation Research Foundation (IRF) Trials – New South Trial

OVERVIEW:

This is year 3 of a 3-year study utilizing the same 10-acre plot, multi-block randomized test. The test plot was once again done on the same challenging area of the Research Farm as 2014 and 2015. LOCATION: Yuma, CO PLOT: 10 acre; Circle A – SE ¼ - High Water HYBRID: Go3A50-5122 PLANTING DATE: 4/25/2016 HARVEST DATE: 10/15/2016 POPULATION: 34K PRE-PLANT: Strip-till: 16.4-8.2-1.3-4.7s applied (10) gallons @ 4 inches, (13) gallons @ 10 inches per acre 3/21/2016 WEED TREATMENT: ACURON @ (2.5) quarts; ROUNDUP WEATHER MAX @ (32) ounces per acre; AMS @ (1) quart; NIS @ (1) quart per 100 gallons water. 4/28/2016 TREATMENTS: Starter 2x2: 15.7-8.9-2.6-2.6s-.047 Zn @ (18) gallons per acre 4/25/2016 In-Furrow: PRO-GERMINATOR 9-24-3 @ (4) gallons per acre 4/25/2016 Through Sprinkler: 28-0-0-5 @ (10) gallons per acre 6/10/2016 28-0-0-5 @ (10) gallons 7/5/2016 28-0-0-5 @ (10) gallons 7/9/2016 28-0-0-5 @ (6) gallons 7/22/2016 11.95 inches rainfall; 9.75 inches applied

RAINFALL CONDITIONS:

| App Dates | Protocols | Moisture | YIELD (bu./acre) |
|-------------------------------------|--|----------|---------------------|
| | 2x2 | | |
| 3/21/2016 4/25/2016 | 3 - Growth Boost @ (2) quarts per acre with Standard IRF strip till & Standard IRF 2x2 at planting | 11.4 | 203.1 |
| 3/21/2016 4/25/2016 | 3 - Growth Boost (2) quarts with Standard IRF strip till & 3 - Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF 2x2 at planting | 11.7 | 210.2 |
| 3/21/2016 4/25/2016 7/12/2016 | 3 - Growth Boost @ (2) quarts with Standard IRF strip till & 3 - Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF 2x2 at planting. Foliar- Aerial application of 3-18-18 @ (3) gallons with 6 - Growth Supplement @ (40) ounces, 5 - MicroNutrient Boost @ (1) pint per acre | 11.7 | 208.7 |
| | Control | 11.6 | 205.0 |
| | In- Furrow | | |
| 3/21/2016 4/25/2016 | 3 - Growth Boost @ (2) quarts per acre with Standard IRF strip till & Standard IRF in-furrow at planting | 11.4 | 204.1 |
| 3/21/2016 4/25/2016 | 3 - Growth Boost @ (2) quarts with Standard IRF strip till & 3 - Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF in-furrow at planting | 11.2 | 189.7 |
| 3/21/2016 4/25/2016 7/12/2016 | 3 - Growth Boost @ (2) quarts with Standard IRF strip till & 3 - Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF in-furrow at planting. Foliar- Aerial application of 3-18-18 @ (3) gallons with 6 - Growth Supplement @ (40) ounces, 5 - MicroNutrient Boost @ (1) pint per acre | 11.9 | 207.9 |
| | Control | 11.5 | 191.5 |

Irrigation Research Foundation (IRF) upholds the mission to conserve the quality and quantity of water, Ogallala Aquifer, food production, and enhancement of the socio-economic welfare of the region. You may obtain more information about the Irrigation Research Foundation at www.irf-info.com.