

Irrigated corn variety performance trial at Fruita¹ in 2006.

| Hybrid | Grain | | Test | Density | Lodging | Ear |
|-----------------------|--------------|-------------|-------------|--------------|------------|------------|
| | Yield | Moisture | Weight | | | Drop |
| | bu/ac | % | lb/bu | plants/ac | % | % |
| Garst 8534 YG1/GT | 242.5 | 18.4 | 57.3 | 31945 | 0.6 | 0.0 |
| Garst 8745 YG1/RR | 233.5 | 16.6 | 58.7 | 31491 | 0.6 | 0.0 |
| Garst 8688 GT | 207.0 | 16.7 | 59.2 | 32716 | 11.6 | 0.0 |
| Garst 8827 CB/LL/GT | 173.5 | 16.3 | 60.0 | 30719 | 1.9 | 0.0 |
| Average | 214.1 | 17.0 | 58.8 | 31717 | 3.7 | 0.0 |
| LSD _(0.30) | 21.8 | | | | | |

¹Trial conducted at the Western Colorado Research Center; seeded 5/4 and harvested 11/8.

Site Information

Plot Size: 5 x 50 ft.

Experimental Design: randomized complete block with four replications.

Seeding Rate: 35,890 seeds/acre

Previous Crop: soybean

Irrigation: Field was furrow-irrigated 8 times during the growing season using gated pipe.

Growing Degree Days: 2922 (2006 GDD); 2673 (Long Term Ave GDD)

Soil Type: Youngston fine sandy loam

Fertilization: Fertilizer was applied broadcast prior to planting (22 lbs N/acre and 104 lbs P2O5/acre) on May 3, 2006 and N was side-dressed (160 lbs N/acre as 32-0-0 in a split application of 80 lbs 2006 N/acre on each side of the corn row) on June 7, 2006.

Herbicide: Applied Lasso herbicide PPI at 2.5 qts/acre on May 3, 2006 using 22 gallons water per acre at 25 PSI.

Bactericide: None

Insecticide: Dimethoate (1pt/acre) and Comite (2.25 pt/acre) was applied by ground using drop nozzles and in 20 gallons water/acre on June 28, 2006 to control spider mites.