

2001 Colorado Soybean Variety Performance Results

Growing interest in the production of soybeans in Colorado gave rise to soybean variety testing on a statewide basis in 2001. Colorado State University began this testing effort to provide unbiased and reliable variety information to Colorado soybean producers to help them make better variety decisions.

2001 was the first year of testing soybean varieties at Yuma. This sprinkler irrigated trial on soils with pH in the range of 7.0 – 7.4 included only Roundup Resistant varieties. Yuma has a relatively long growing season (average 2615 corn growing degree days) and appropriate for Group 2 maturity varieties. Our first attempt at soybean variety testing was marred by a severe hail storm during the first week of September. Our collaborating grower thinks yields were reduced by 40% due to the storm.

Rocky Ford, site of soybean variety trials for several years, has a longer growing season (2837 corn growing degree days) and can produce late Group 3 or early Group 4 maturity soybeans. The trial was furrow irrigated with a soil pH of 7.8 and both conventional and Roundup Resistant varieties were included where conventional herbicides were used. Plots in both trials consisted of four rows, each 36 ft long. Yields are expressed at 13% grain moisture as bu/ac with 60 lbs of soybeans in one bushel.

Soybean performance at Rocky Ford¹ in 2001.

Variety	Yield	Moisture	Plant Height	Leaf Drop
	bu/ac	%	in	date ²
DG 3399 RR	72.9	7.2	35	275
Pioneer brand 93B85	72.1	7.0	33	275
Garst 355 (RR)	70.8	6.8	36	273
Pioneer brand 93B72	69.9	6.9	32	274
Pioneer brand 93B53	69.1	6.9	34	273
Garst 437 (RR/N)	68.8	7.7	38	277
DG 3388 RR	68.5	7.2	37	0*
Asgrow AG3903	67.9	7.4	35	275
Asgrow AG3902	67.8	7.5	36	0*
Garst 381 (RR/STS)	67.6	6.9	35	273
DEKALB DKB40-51	61.8	7.6	37	277
Average	68.8	7.2	35	225
CV%	14.9			
LSD _(0.30)	4.4			

¹Trial conducted on the Arkansas Valley Research Center; seeded 6/4 and harvested 10/10. No shatter.

²Julian date.

*Frosted before leaf drop.

Soybean performance at Yuma¹ in 2001.

Variety	Yield	Moisture	Plant	
			Height	Shatter
	bu/ac	%	in	rating ²
DG 3270 RR	47.6	13.4	34	2.3
Syngenta S29-C9	45.7	11.2	31	2.0
Prairie Brand PB-2717 (RR)	42.8	11.8	34	2.0
Asgrow AG2703	41.2	13.5	33	2.0
Asgrow AG2402	36.6	12.7	36	3.0
Syngenta S24-K2	35.0	14.5	36	2.7
Garst 198 (RR)	32.6	12.7	30	3.0
Prairie Brand PB-2131 (RR)	32.5	12.6	34	3.0
DG 3263 RR	31.6	12.9	37	2.3
DEKALB DKB26-51	30.8	11.5	31	2.3
Garst 2547 (RR)	29.9	12.4	32	3.3
DEKALB DKB23-51	28.5	13.0	33	3.0
Asgrow AG2302	28.0	11.0	33	3.0
Garst 2603 (RR)	25.0	13.5	34	3.0
Garst 2112 (RR/N)	24.9	12.3	29	3.0
Average	34.2	12.6	33	2.7
CV%	14.9			
LSD _(0.30)	4.4			

¹Trial conducted on the Joe Harper farm; seeded 6/6 and harvested 9/25.

² Rating scale 0-10. Shatter was due to hail damage on September 15.