

lowest yield. Yields better than those seen in this trial can be achieved in the Safford valley, but with current conditions and cultural practices, it is impractical to try to achieve yields like those seen in the Bonita area.

References

1. Clark, L.J. 1998. Corn hybrid evaluations, Bonita, 1997. Forage and Grain, A College of Agriculture Report, The University of Arizona, Tucson, AZ. Series P-114, 121-123.
2. Tickes, B. 1998. Corn variety evaluation, Yuma, AZ - 1998. Memorandum of research results, Yuma County Cooperative Extension, September 11, 1998.

Table 1. Yields and related data for Bt corn hybrid evaluation on the Haas Farm, 1998.

Variety	Yield @ 15.5% M (lbs/ac)	Adjusted Yield 15.5% M	% M	Bu Wt	Pl/ac	Ear Ht	% Barren	% Ear Worm Damage	% Corn Borer Damage
Pio 33A14	13426.0	13426.0	18.7	57.4	30492	46.5	0	6.0	2.5
Pio 31B13	12308.6	12514.7	20.2	57.4	26136	55.0	-8.3	0.0	0
Pio 34T14	12511.3	12409.1	17.8	59.2	32670	51.0	0	10.0	0
N-7639BT	11885.9	11962.3	20.2	57.4	32670	43.0	0	0.0	0
DK 591	11559.0	11392.4	18.9	54.9	37026	46.0	0	0.0	0
Average	12338.16	12340.9	19.16	57.26	31798.8	48.3	-1.66	3.2	0.5
2X StdDev	--	458	0.58	1.34	3080.2	2.24	0.0	--	--

Table 2. Yields and related data for non-Bt corn hybrid evaluation on the Haas Farm, 1998.

Variety	Yield @ 15.5% M (lbs/ac)	Adjusted Yield 15.5% M	% M	Bu Wt	Plants per acre	Ear Ht	% Barren	% Smut	% Ldg	% Ear Worm	% Corn Borer
32J55	14630.3	14654.8	20.3	58.7	34848	44.0	0.0	0.0	0.0	40	0
32P75	14332.8	14492.1	19.3	57.0	28314	47.0	0.0	0.0	0.0	10	30
33H67	14502.9	14483.7	18.5	59.1	30492	48.0	0.0	0.0	0.0	20	0
32J49	14364.7	14344.9	20.1	27.8	32670	52.0	0.0	0.0	0.0	20	0
31A12	14357.3	14330.5	22.8	57.2	28314	51.0	0.0	0.0	0.0	20	0
3162	14058.3	14089.5	21.3	26.4	34848	46.0	0.0	0.0	0.0	30	10
X1147X	14100.4	13972.0	19.2	54.4	28314	54.0	0.0	0.0	0.0	20	0
33R87	13663.1	13663.1	17.6	58.2	31309	47.3	4.3	0.0	0.0	19	10
32R90	12189.4	12176.1	21.6	57.1	30492	60.0	7.1	7.1	0.0	30	10
X1187A	11907.5	11799.1	23.3	56.0	32670	50.0	0.0	0.0	0.0	20	10
Average	13810.7	13800.6	20.4	57.2	31227	49.9	1.1	0.7	0.0	22.88	7.0
2X Std Dev.	--	144.8	0.6	2.4	1201	2.6	7.0	0.0	0.0	25.4	17.4

Table 3. Yield data for corn hybrid evaluations on the Colvin Farm, 1998.

Variety	Yield @ 15.5% Moisture (lbs/ac)	Adjusted Yield @15.5% M	Percent Moisture	Bushel Weight
Novartis N 7639	6547.0	7720.8	12.0	63.0
Novartis N 7590Bt	6921.2	7653.6	9.7	57.0
Pioneer 31B13	7350.4	7573.7	9.2	59.5
Cargill 8021	6662.7	6817.1	10.6	59.0
Cargill 7821	7216.4	6662.9	10.5	60.0
Pioneer 33H67	6326.5	5777.7	8.4	61.0
DeKalb 591 (Bt)	5778.9	5617.1	9.6	56.5
Pioneer 32P75	5982.2	5484.3	9.6	57.5
Pioneer 33R87	5443.7	5443.7	10.0	59.4
Novartis 83-NK	4799.6	5020.9	11.8	61.5
Pioneer 3162	5504.4	4933.3	10.1	59.0
Novartis N 7070Bt	4455.5	4667.9	11.6	57.0
Pioneer 34T14	3922.5	4300.1	11.0	59.5
Pioneer 33Y09	3862.3	3583.8	9.6	57.5
Pioneer 33A14	3281.2	3202.9	10.4	58.0
Average	5536.3	5481.4	10.2	58.7