

Individual Trial Information - 2004 Monsanto Trials

Location	Cooperators	Soil Type	Previous Crop	Row Width (in)	Planting Date	Harvest Dates	Ave. Final Stand (plants/A)	Tillage Operations	--Soil Test--			--Nitrogen Fertilizer--			Weed Control	Insecticides				
									pH	P	K	actual (lb/a)	form	time						
Arlington	S.Kraak J. Quimby	Plano Silt Loam	Soybean	30	29-Apr	20-Oct	29700	Chisel	7.0	69	258	150	46-0-0	preplant	Dual II 2.0 pt/A	None				
								Field Cultivator				9	6-24-24	planting	Hornet 3.5 oz/A					
								Soil Finisher				51	34-0-0		cultivate					
Chippewa Falls	J. Clark	Satre Silt Loam	Soybean	30	28-Apr	25-Oct	29300	Field Cultivator	6.4	25	109	150	28-0-0	preplant	Harness 1.6 pt/A	None				
												9	6-24-24	planting	Hornet 3.0 oz/A		cultivate			
Galesville	K. Congdon J. Zander	Downs Silt Loam	Soybean	30	28-Apr	25-Oct	29600	V-ripper	6.1	22	150	160	46-0-0	preplant	Dual II 2.25 pt/A	None				
								Field Cultivator				9	6-24-24	planting	Callisto 3.0 oz/A					
												51	34-0-0		cultivate					
Hancock Irrigated	J. Breuer C. Kostichka	Plainfield Sand	Soybean	30	23-Apr	13-Oct	30900	Moldboard Plow	6.8	98	96	9	6-24-24	planting	Aatrex 4L 0.75 lb/A	None				
								Disk							204		34-0-0	post	Lasso 2.0 qt/A	
Janesville	J. Stute	Plano Silt Loam	Soybean	30	25-Apr	21-Oct	29800	Chisel Plow	6.8	51	170	160	28-0-0	preplant	Dual II 1.8 pt/A	None				
								Field Cultivator							9		6-24-24	planting	Hornet 4.0 oz/A	cultivate
Lancaster	T. Wood	Fayette Silt Loam	Soybean	30	27-Apr	14-Oct	29800	Soil Finisher	7.5	75	104	140	46-0-0	preplant	Aatrex 4L 1.0 qt/A	None				
												9	6-24-24	planting	Harness 1.0 qt/A		Northstar 2.5 oz/A			
																		cultivate		
Marshfield	M. Bertram T. Drendel	Withee Silt Loam	Soybean	30	29-Apr	3-Nov	29600	Chisel Plow	6.5	38	103	9	6-24-24	planting	Lumax 2.25qt/A					
								Field Cultivator (2x)							81		28-0-0	post	cultivate	
Rhineland	B. Bowen S. Woodford	Vilas Loamy Sand	Potato	30	11-May	15-Nov	30000	Chisel Plow	5.6	175	114	9	6-24-24	planting	Harness Extra 1.75 qt/A					
								Disk							69		46-0-0	post		
Seymour	R. Vanden Heuvel Z. Miller	Clay Loam	Corn	30	2-May	24-Oct	29300	Chisel Plow	7.5	41	179	9	6-24-24	planting	Accent 0.67 oz/A	Force				
								Soil Finisher							9000 gal/A		Manure	post	Atrazine 0.5 lb/A	4.4 lbs/A
																			cultivate	Callisto 3.0 oz/A
Spooner Dryland	P. Holman Y. Berger	Mahtomedi Loamy Sand	Alfalfa	30	5-May	26-Sep	26600	Disk	6.3	38	105	22	13-16-18-8s	planting	Dual II Mag 1.0 pt/A	None				
												81	46-0-0	post	Hornet 4.0 oz/A					
Spooner Irrigated	P. Holman Y. Berger	Cress Sandy Loam	Alfalfa	30	4-May	26-Oct	32600	Moldboard Plow	5.9	32	98	22	13-16-18-8s	planting	Dual II Mag 1.0 pt/A	None				
								Disk							138		46-0-0	post	Hornet 4.0 oz/A	
																			cultivate	Accent 0.67 oz/A
Spooner Silt Loam	P. Holman Y. Berger	Antigo Silt Loam	Soybean	30	6-May	4-Nov	32000	Moldboard Plow	6.5	23	77	22	13-16-18-8s	planting	Dual II Mag 1.0 pt/A	None				
								Disk							81		46-0-0	post	Hornet 4.0 oz/A	
Valders	T. & B. Maney	Kewaunee Clay Loam	Corn	30	4-May	27-Oct	29700	Chisel Plow	6.9	91	186	9	6-24-24	planting	Dual II Mag 1.0 pt/A	Force				
								Field Cultivator							11000 gal/A		Manure	preplant	Accent Gold 2.5 oz/A	4.4 lbs/A
																			cultivate	Banvel 2.0 oz/A

Results: Tables C-5, C-6, C-7, and C-8.

**Table C-5. Comparison of Monsanto Bt and Non Bt Hybrids.
Southern Zone 2004.**

Zone	Location	Hybrid	Yield	Moisture	Test		Grower return
					Weight	Lodging	
			bu/A	%	lbs/bu	%	\$/A
S		DK537	220	19.7	55	1	391
S		DKC5332YGCB	222	21.0	54	0	388
S		DKC5701	230	22.7	52	1	396
S		DKC5878YGCB	230	23.9	52	0	390
S		DKC6015	233	25.6	51	3	387
S		DKC6019RR2YGCB	236	25.3	52	1	394
S	Arlington		229	26.8	50	0	375
S	Janesville		201	22.3	53	2	346
S	Lancaster		255	20.0	55	0	451
S	Arlington	DK537	223	23.2	52	0	380
S	Arlington	DKC5332YGCB	225	25.0	51	0	375
S	Arlington	DKC5701	231	26.1	50	0	381
S	Arlington	DKC5878YGCB	233	27.5	50	0	377
S	Arlington	DKC6015	229	29.6	50	2	361
S	Arlington	DKC6019RR2YGCB	236	29.2	50	0	374
S	Janesville	DK537	205	18.9	55	2	367
S	Janesville	DKC5332YGCB	184	20.1	55	0	326
S	Janesville	DKC5701	207	21.6	53	2	360
S	Janesville	DKC5878YGCB	192	23.1	53	0	328
S	Janesville	DKC6015	210	25.3	51	7	351
S	Janesville	DKC6019RR2YGCB	207	25.0	51	1	347
S	Lancaster	DK537	231	16.9	57	0	424
S	Lancaster	DKC5332YGCB	256	18.0	57	0	464
S	Lancaster	DKC5701	252	20.3	54	0	445
S	Lancaster	DKC5878YGCB	266	21.1	54	0	465
S	Lancaster	DKC6015	259	21.9	53	0	448
S	Lancaster	DKC6019RR2YGCB	265	21.5	54	0	461
S	Mean		228	23.0	53	1	391
Probability(%)							
	Location (L)		0.7	0.1	0.0	23.5	0.7
	Hybrid (H)		6.0	0.0	0.0	8.5	94.9
	H x L		13.7	0.8	0.2	27.1	11.4
LSD (0.10)							
	Location (L)		17	1.1	1	NS	34
	Hybrid (H)		10	0.4	0	2	NS
	H x L		NS	0.7	1	NS	NS
CV(%)							
			5	2	1	228	5

**Table C-6. Comparison of Monsanto Bt and Non Bt Hybrids.
South Central Zone 2004.**

Zone	Location	Hybrid	Yield	Moisture	Test		Grower return
					Weight	Lodging	
			bu/A	%	lbs/bu	%	\$/A
SC		DK440	205	19.7	53	1	364
SC		DKC4442YGCB	215	20.5	53	0	378
SC		DKC4628RR2	224	19.7	55	0	398
SC		DKC4710RR2YGCB	217	20.1	54	0	383
SC		DKC5143	240	22.3	52	0	414
SC		DKC5018YGCB	238	22.3	53	0	410
SC	Galesville		220	20.1	54	0	388
SC	Hancock		226	21.4	53	0	394
SC	Galesville	DK440	191	19.4	53	1	341
SC	Galesville	DKC4442YGCB	225	20.1	53	0	399
SC	Galesville	DKC4628RR2	217	19.4	56	0	387
SC	Galesville	DKC4710RR2YGCB	213	19.4	55	0	379
SC	Galesville	DKC5143	237	21.1	53	0	414
SC	Galesville	DKC5018YGCB	234	21.5	53	0	408
SC	Hancock	DK440	218	20.0	53	0	386
SC	Hancock	DKC4442YGCB	204	21.0	52	0	357
SC	Hancock	DKC4628RR2	232	20.0	55	1	410
SC	Hancock	DKC4710RR2YGCB	220	20.8	54	0	386
SC	Hancock	DKC5143	243	23.5	52	0	413
SC	Hancock	DKC5018YGCB	241	23.1	52	0	412
SC	Mean		223	20.8	53	0	391
Probability(%)							
Location (L)			36.5	9.7	15.5	96.2	64.2
Hybrid (H)			0.0	0.0	0.0	5.3	0.5
H x L			4.7	19.6	44.6	12.2	5.9
LSD (0.10)							
Location (L)			NS	1.3	NS	NS	NS
Hybrid (H)			12	0.7	1	0	22
H x L			16	NS	NS	NS	31
CV(%)							
			5	3	1	189	6

**Table C-7. Comparison of Monsanto Bt and Non Bt Hybrids.
North Central Zone 2004.**

Zone	Location	Hybrid	Yield bu/A	Moisture %	Test		Grower return \$/A
					Weight lbs/bu	Lodging %	
NC		DK440	176	24.4	50	1	296
NC		DKC4442YGCB	173	25.7	49	0	287
NC		DKC3947RR2	165	22.4	53	2	283
NC		DKC3948RR2YGCB	166	23.2	52	2	284
NC		DKC4628RR2	186	25.3	50	1	310
NC		DKC4710RR2YGCB	172	25.5	50	0	287
NC	Chippewa Falls		179	22.2	51	2	309
NC	Marshfield		162	25.9	51	1	267
NC	Seymour		181	21.9	53	3	313
NC	Valders		170	27.6	48	0	275
NC	Chippewa Falls	DK440	181	22.2	51	2	313
NC	Chippewa Falls	DKC4442YGCB	193	23.5	50	0	329
NC	Chippewa Falls	DKC3947RR2	157	19.9	53	1	278
NC	Chippewa Falls	DKC3948RR2YGCB	169	21.3	53	2	294
NC	Chippewa Falls	DKC4628RR2	186	22.9	50	3	318
NC	Chippewa Falls	DKC4710RR2YGCB	188	23.3	51	0	320
NC	Marshfield	DK440	166	24.9	50	0	278
NC	Marshfield	DKC4442YGCB	159	25.9	50	0	263
NC	Marshfield	DKC3947RR2	155	24.0	52	2	263
NC	Marshfield	DKC3948RR2YGCB	159	25.5	52	0	264
NC	Marshfield	DKC4628RR2	170	27.7	50	0	275
NC	Marshfield	DKC4710RR2YGCB	161	27.7	51	0	260
NC	Seymour	DK440	183	21.9	52	2	318
NC	Seymour	DKC4442YGCB	179	22.3	51	1	308
NC	Seymour	DKC3947RR2	167	20.6	55	5	293
NC	Seymour	DKC3948RR2YGCB	166	21.1	54	6	290
NC	Seymour	DKC4628RR2	208	22.6	52	0	358
NC	Seymour	DKC4710RR2YGCB	182	22.6	52	1	312
NC	Valders	DK440	172	28.8	47	0	274
NC	Valders	DKC4442YGCB	159	30.9	45	0	247
NC	Valders	DKC3947RR2	179	25.2	50	0	298
NC	Valders	DKC3948RR2YGCB	172	24.9	50	0	288
NC	Valders	DKC4628RR2	178	27.8	47	0	288
NC	Valders	DKC4710RR2YGCB	159	28.3	46	0	254
NC			173	24.4	51	1	291
Probability(%)							
	Location (L)		14.7	0.0	0.0	10.5	2.9
	Hybrid (H)		0.6	0.0	0.0	5.1	7.6
	H x L		8.1	0.4	1.3	4.8	7.6
LSD (0.10)							
	Location (L)		NS	1.2	1	NS	26
	Hybrid (H)		9	0.7	1	1	17
	H x L		18	1.4	1	2	33
CV(%)							
			8	4	1	136	8

**Table C-8. Comparison of Monsanto Bt and Non Bt Hybrids.
Northern Zone 2004.**

Zone	Location	Hybrid	Yield	Moisture	Test		Grower return
					Weight	Lodging	
			bu/A	%	lbs/bu	%	\$/A
N		DKC3501RR2	103	28.6	47	2	167
N		DKC3502RR2YGCB	121	29.1	47	1	194
N		DKC3550RR2	99	29.3	46	2	158
N		DKC3551RR2YGCB	105	29.8	46	1	167
N	Rhineland		76	36.9	37	0	109
N	Spooner-Dryland		105	26.3	49	5	173
N	Spooner-Irrigated		130	25.2	50	1	216
N	Spooner-Silt Loam		118	28.5	49	0	189
N	Rhineland	DKC3501RR2	66	36.3	37	0	95
N	Rhineland	DKC3502RR2YGCB	95	37.4	38	0	135
N	Rhineland	DKC3550RR2	70	36.3	37	0	101
N	Rhineland	DKC3551RR2YGCB	72	37.4	37	0	103
N	Spooner-Dryland	DKC3501RR2	102	24.9	50	7	170
N	Spooner-Dryland	DKC3502RR2YGCB	119	26.0	49	3	196
N	Spooner-Dryland	DKC3550RR2	87	27.5	48	7	141
N	Spooner-Dryland	DKC3551RR2YGCB	113	26.8	49	1	185
N	Spooner-Irrigated	DKC3501RR2	126	25.3	51	1	209
N	Spooner-Irrigated	DKC3502RR2YGCB	137	25.6	51	1	228
N	Spooner-Irrigated	DKC3550RR2	123	25.1	50	2	205
N	Spooner-Irrigated	DKC3551RR2YGCB	132	24.9	51	1	221
N	Spooner-Silt Loam	DKC3501RR2	120	28.0	49	0	193
N	Spooner-Silt Loam	DKC3502RR2YGCB	133	27.4	49	0	216
N	Spooner-Silt Loam	DKC3550RR2	115	28.3	48	0	184
N	Spooner-Silt Loam	DKC3551RR2YGCB	103	30.2	48	0	161
N	Mean		107	29.2	46	2	172
Probability(%)							
Location (L)			0.1	0.0	0.0	7.9	0.0
Hybrid (H)			0.0	12.0	0.9	4.6	0.0
H x L			10.2	17.4	27.9	1.9	6.4
LSD (0.10)							
Location (L)			12	2.1	1	3	21
Hybrid (H)			7	NS	1	1	11
H x L			NS	NS	NS	2	22
CV(%)							
			9	4	2	97	9