

FIELD EXPERIMENT HISTORY

Title: Comparison Between Roundup Ready Hybrids and Isolines.
Experiment: 01Roundup **Trial ID** 1309 **Year:** 2001
Personnel: J.G. Lauer, P. J. Flannery, and K. D. Kohn
Location: Arlington, WI **County:** Columbia
Supported By: HATCH

Site Information

Field: 408 **Previous Crop:** Soybean **Soil Type:** Plano silt loam
Soil Test: **Date:** 10/1 /01 **pH** 6.7 **OM (%)** 2.6 **P (ppm)** 63 **K (ppm)** 137

Plot Management

Tillage Operations: Chisel Plow Soil Finisher 1 Cultivation 6/14
Fertilizer: **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** May 9
Starter Analysis: 6-24-24 **Rate lbs/A:** 100 **Date:** May 9
Post plant Analysis: N/A **Rate lbs/A:** N/A **Date:** N/A
Manure: None
Herbicide: Harness @ 2.5 pt/A **Insecticide:** None
Permit @ 0.66 oz/A **Hybrid:** See Factors
Irrigation: None
Planting Date: May 8 **Planting Depth:** 1.5" **Row Width** 30"
Target Plant Density: 30000 plants per acre **Planting Method:** Kinze Plot Planter
Harvest Date: October 25 **Harvest Method:** Kincaid Plot Combine

Experimental Design

Design: split-plot **Replications:** 4
Plot Size Seeded: 25' x 5' **Experiment Size:** 25' x 5'
Harvest Plot Size: 22' x 5' **Harvest Plant Density:** 29000 plants per acre

Factors/Treatments:

Hybrids:

DKC3947	DKC5740
DKC3945	DKC5738
DKC4628	DKC5853
DKC4626	DK585
DKC5333	DKC6017
DK537	DKC6015

Results: Table C-7.

Table C-7. Comparison Between Roundup Ready Hybrids and Isoline.

Arlington, WI - 2001.

Treatment	Type	Hybrid	Relative	Yield		Test		Harvest	Plant	Ear	Silk	Grower
			maturity	bu/A	%	lbs/bu	Lodging	population	height	height	date	Return
								plants/A	inches	inches	doy	\$/A
	RR			191	22.7	53	7.7	28875	92	40	206	386
	Isoline			197	22.6	53	4.7	29205	93	41	206	399
1		DKC3947/DKC394	89	171	19.6	57	4.4	29502	90	42	202	355
2		DKC4628/DKC462	96	160	19.7	55	15.4	27225	85	39	204	333
3		DKC5333/DK537	103	195	20.7	53	4.3	29898	94	40	204	401
4		DKC5740/DKC573	107	210	23.9	51	4.0	29700	94	41	209	423
5		DKC5853/DK585	108	212	24.7	50	3.9	28314	102	46	209	424
6		DKC6017/DKC601	110	214	27.5	50	5.0	29601	91	35	209	419
1	RR	DKC3947	89	170	19.5	57	6.7	29304	90	42	202	354
1	Isoline	DKC3945	89	172	19.7	57	2.0	29700	89	43	202	357
2	RR	DKC4628	96	160	19.5	55	20.9	27126	88	40	204	333
2	Isoline	DKC4626	96	161	19.8	55	9.9	27324	83	38	204	333
3	RR	DKC5333	103	181	20.3	53	5.4	29304	94	40	204	374
3	Isoline	DK537	103	208	21.0	53	3.2	30492	94	41	205	428
4	RR	DKC5740	107	214	24.0	52	2.0	30096	93	40	209	430
4	Isoline	DKC5738	107	207	23.8	51	6.1	29304	94	41	209	417
5	RR	DKC5853	108	206	25.1	51	5.0	27918	98	43	209	412
5	Isoline	DK585	108	217	24.4	50	2.8	28710	105	49	209	436
6	RR	DKC6017	110	212	27.9	50	6.1	29502	91	34	209	415
6	Isoline	DKC6015	110	216	27.1	50	4.0	29700	91	35	209	424
Mean				194	22.7	53	6.2	29040	93	40	206	393
<u>Probability(%)</u>												
Treatment (T)				0.0	0.0	0.0	5.8	0.2	0.0	0.0	0.0	0.0
Type (Y)				22.4	60.3	36.0	21.5	39.9	75.3	19.2	76.9	21.4
T x Y				47.6	15.0	13.6	62.9	77.2	8.3	32.3	76.8	51.9
<u>LSD(0.10)</u>												
Treatment (T)				14	0.7	1	5.8	801	5	3	1	28
Type (Y)				NS	NS	NS	NS	NS	NS	NS	NS	NS
T x Y				NS	NS	NS	NS	NS	4.3	NS	NS	NS
<u>CV(%)</u>												
				9	3	1	134	5	4	9	1	9