

## FIELD EXPERIMENT HISTORY

**Title:** LANDEC Corn Seed Treatment Study **Year:** 1995  
**Personnel:** J.G. Lauer, and K.D. Hudelson  
**Location:** Arlington Research Station, Arlington, WI  
**Supported by:** Landec Corporation

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### FIELD INFORMATION

Field: 338  
Soil Type: Plano Silt Loam  
Soil Test Results: Test Date: 4/95 pH: 7.0 P (ppm): 50 K (ppm): 105 OM (%): 4.0  
Fertilizer: 25-Apr 100 lbs/a 6-24-24 starter  
25-Apr 150 lbs N/a 28-0-0  
Tillage Operations: None  
Previous Crop: Corn  
Irrigation: None

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### EXPERIMENTAL PROCEDURE

Exp. Design: RCB Split Plot  
Replicates: 4  
Variables: A: Hybrid, B: Seed Treatment  
Area Planted: 10' x 30'  
Area Harvested: 5.0' x 25'  
Row Spacing: 30"  
Hybrid/Variety: LH192 x LH82  
LH200 x LH59  
Planting Date: 25-Apr-95  
Planting Equip: JD 7000 Planter  
Seeding Rate: 32,000  
Soil Temperature: 48.2°F at 1.5 inch depth  
Harvesting Date: 6-Oct  
Harvesting Equip: Gleaner Plot Combine

	<u>Date</u>	<u>Material</u>	<u>Rate</u>	<u>Method</u>
Insecticide:	25-Apr	Lorsban	8 oz/1000 ft	planter
Herbicides:	1-May	Bladex	2 qts/a	preemerg
	1-May	Lasso	2 qts/a	preemerg

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Results: Table E-37.

**Table E-37. LANDEC Corn Seed Treatment Study.  
Arlington, WI 1995.**

Hybrid	Seed Treatment	Days after Planting									Final Emerg. %	Final Population plants/A	Broken		Yield bu/A
		23	25	27	29	31	35	38	41	45			Stalks %	Moist %	
		% emergence									%	plants/A	%	%	bu/A
LH192 x LH82		14	24	36	44	47	50	56	57	58	58	18600	3.9	40.6	76
LH200 x LH59		2	6	14	21	26	30	38	40	41	46	14600	1.2	41.3	51
	CoatA	9	17	28	35	38	41	48	49	49	53	17000	2.6	40.9	72
	UTC	7	14	22	30	35	40	46	49	49	51	16200	2.5	41.4	55
LH192 x LH82	CoatA	16	27	40	47	49	50	58	58	59	61	19400	4.0	40.2	85
LH192 x LH82	UTC	11	21	31	41	46	50	54	57	57	56	17900	3.9	41.0	66
LH200 x LH59	CoatA	2	6	15	23	28	32	38	39	40	45	14500	1.2	40.8	59
LH200 x LH59	UTC	2	7	13	19	23	29	38	42	42	46	14600	1.1	41.8	43
Mean		8	15	25	32	36	40	47	49	49	52	16600	2.5	40.9	63
<b>Probability (%)</b>															
Hybrid (H)		3.2	0.7	0.9	1.2	1.4	0.9	1.6	2.1	2.3	1.7	1.7	1.6	>50	3.1
Seed Treatment (T)		2.2	1.0	4.0	1.2	18.4	>50	48.1	>50	>50	41.9	41.1	>50	22.7	4.4
H x T		1.4	0.5	13.5	35.9	>50	>50	>50	>50	>50	36.4	36.2	>50	>50	>50
<b>LSD (0.10)</b>															
Hybrid (H)		7	6	9	10	10	8	9	9	9	6	2000	1.3	NS	15
Seed Treatment (T)		1	2	4	3	NS	NS	NS	NS	NS	NS	NS	NS	NS	13
CV %		19.1	10.6	17.1	8.5	14.3	14.7	11.6	14.5	14.1	10.1	10.1	51.6	3.3	21.3