

Nebraska Soybean & Feed Grains Profitability Project

**Years:** 2005-2007  
**Title:** Using Fungicides  
**Crop:** Soybeans  
**NSFGPP Operator:** Jim & Mike Stewart, Lancaster County  
**Private Industry Cooperator:** Earle Raun  
**Objective:** To determine & document the effect of fungicide use on the profitability of producing corn/soybeans in rotation.  
**Treatment:** 2005 - 3 fungicides - Headline, Quilt, & Stratego  
 2006 - Same 3 fungicides.  
 2007 - Same 3 fungicides.

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Results: 2005 (Kaup 3636)

<u>Variable</u>	<u>None</u>	<u>Headline</u>	<u>Quilt</u>	<u>Stratego</u>	<u>Prob &gt;F</u>
Yield, bu/ac @ 13%	41 a	40 a	43 a	39 a	0.446 ns
Moisture, %	15.8 ab	15.5 b	16.3 a	15.9 ab	0.142 ns
Cost/ac	---	\$16.31	\$18.50	\$11.80	

Application made on July 22, 2005, 100°F, 8003DG TeeJEt, 60-70 PSI

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Results: 2006 (Fontanelle 9162N RR)

<u>Variable</u>	<u>None</u>	<u>Headline</u>	<u>Quilt</u>	<u>Stratego</u>	<u>Prob &gt;F</u>
Yield, bu/ac @ 13%	59 ab	59 ab	60 a	58 b	0.269 ns
Moisture, %	10.0 a	10.0 a	10.1 a	10.0 a	0.666 ns
Test Wt, lbs/bu	56.6 a	57.0 a	56.7 a	56.8 a	0.345 ns
Plants, 1000/ac	110.7 a	93.3 a	91.3 a	104.0 a	0.456 ns
Cost, per ac		\$13.02	\$15.97	\$9.17	
Appl. Cost/ac		\$6.00	\$6.00	\$6.00	

Applied 7/20/06, Temp 85 degrees F, Wind 8 mph, pressure 60-75 psi, Driftguard 8003 spray tips, 20 gpm. Sprayed around noon.

Statistical Analysis: Duncan's Multiple Range Test. Values followed by the same letter are not significantly different at 0.10 probability.

Planting Date: 5/11/06

Harvesting Date: 10/30/06

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Results: 2007 Soybeans (Fontanelle 9412)

<u>Variable</u>	<u>None</u>	<u>Headline</u>	<u>Quilt</u>	<u>Stratego</u>	<u>Prob &gt;F</u>
Yield, bu/ac @ 13%	63 a	64 a	61 b	62 ab	0.105 ns
Moisture, %	11.6 a	11.6 a	11.8 a	11.7 a	0.364 ns
Test Wt, lbs/bu	57.1 b	57.1 b	57.4 a	57.2 ab	0.182 ns
Plants, 1000/ac	128.0 a	132.8 a	130.0 a	136.5 a	0.392 ns
Cost, per ac		\$13.02	\$14.84	\$9.24	
Appl. Cost/ac		\$6.40	\$6.40	\$6.40	

Statistical Analysis: Duncan's Multiple Range Test. Values followed by the same letter are not significantly different at 0.10 probability.

Planting Date: 5/18/07

Harvesting Date: 10/11/07

Summary: The use of fungicides on soybeans had no effect on yield in 2005. In 2006, Quilt treated soybeans yielded slightly higher than Stratego treated soybeans; however, neither was significantly different than the no treatment.

In 2007, no treatment resulted in a higher seed yield than the untreated check.