

Nebraska Soybean & Feed Grains Profitability Project

**Years:** 2003-2004

**Title:** In-season Cultivation

**Crop:** Corn

**NSFGPP Operator:** Dennis Wilkens, Washington County

**Private Industry Cooperator:** Jerry Mulliken

**Objective:** To determine and document the effect of in season cultivation in biosolid and non-biosolid treated fields on the profitability of corn production.

**Treatments:** No in-season cultivation vs. in-season cultivation in two fields; with and without applied biosolids.

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**Results: 2003**

<u>Variable</u>	<u>No Cultiv.</u>	<u>Cultivation</u>	<u>Prob &gt;/T/</u>
<b>Biosolid Field (Midwest 8122)</b>			
Yield, bu/ac at 15.5%	158	156	0.662 ns
Moisture, %	27.0	26.3	0.336 ns
Test Wt., lbs/bu	49.4	49.2	0.715 ns
Cost/ac	-----	\$5.00	
<b>No Biosolid Field (Midwest 8122)</b>			
Yield, bu/ac at 15.5%	172	170	0.558 ns
Moisture, %	13.2	13.2	0.741 ns
Test Wt., lbs/bu	57.8	57.6	0.255 ns
Cost/ac	-----	\$5.00	

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**Results: 2004 (Sucroosso 114) (No Bio-solids in 2004)**

<u>Variable</u>	<u>No Cultiv.</u>	<u>Cultivation</u>	<u>Prob &gt; T </u>
Yield, bu/ac at 15%	195	191	0.0729 *
Moisture, %	21.5	21.8	0.4674 ns
Cost/ac	----	\$7.00	

**Summary:** In-season cultivation had no effect on the growth of corn in 2003 in either field. In 2004, cultivation reduced grain yield slightly.