

North Dakota Reports – Strip-Till Did Overcome the Cool and Wet Year of 2009

This information was generated at the Conservation Cropping Systems Project at Forman ND. It is a 130 acre no-till rotation farm. Some items that stand out due to cool, wet, short growing season are the low test weight and moisture levels. This had an economic side to things when growers had to dry or take huge docks at delivery.



This trial was done to look at the yield difference between strip-till corn and no-till corn following soybeans. Everything was planted the same day with the same fertilizer and same amounts. (we were not provided what those amounts were at this writing)

Fig. 1 Corn plots with NDSU

Table 1. Yield results from Forman CSCR Plots 2009

2009 Tillage Results at Conservation Systems Project Research Trials- Forman, ND -- Corn All Rainfed Plots

Plots	Variety	Tillage	Row	Harvest		
			Length	Test Wt.	Mois.	Bu/ac.
2-4	Pioneer 38M60	Strip tilled	1094	49.7	23.3	183.9
6-8	Croplan 3114	Strip tilled	1094	49.1	23.6	183.2
10-12	Pioneer 38M60	Direct seeded	964	48.2	28.3	151.8
14-16	Croplan 3114	Direct seeded	1028	48.0	26.7	165.5
18-20	Pioneer 9494XR	Strip tilled	1040	46.8	25.7	171.2
22-24	Croplan 2924	Strip tilled	1128	49.9	24.7	188.2
26-28	Pioneer 9494XR	Direct seeded	914	45.6	27.4	147.0
30-32	Croplan 2924	Direct seeded	1112	48.8	26.7	180.6
34-36	Dekalb 43-27	Strip tilled	1120	50.5	23.4	191.8
38-40	Dekalb 43-27	Direct seeded	1098	50.0	24.5	185.3

Average Yield for Strip-Till = 184bpa

Average Yield for Strip-Till = 165bpa

Take Home Message....

Strip-till gave the crop a bit of a heads-up start and warmer seedbed, harvest moisture was ahead of the direct seeded also which could make considerable differences when drying corn and dollars involved. The issue of soil warming in the northern tier states has relevance every year and that must be a management decision for growers in planting your next crop as we watch the winter thaw finally get under way.

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Data supplied by NDSU-Oakes Experiment Station