

2007 Inputs/Outputs for WICST (Fld 440)

Corn rotations					
CROP-2007 Rotation Treatment #	CORN CS1 1	CORN CS2 3	CORN CS3 5	CORN CS4 9	CORN CS5 11
Plot #'s	109,204,306,412	101,214,303,401	106,202,307,411	105, 203, 308,406	110, 208, 304,413
Primary Tillage	Fall chisel plowed 11-30-06	Strip tilled 5-3-07	chisel plowed 4-18-07	Disk-chiseled 1-2-07	Fall MB plowed 11-26-06
Secondary Tillage	Field cultivated 4-20-07 and 5-3-07	None	Field cultivated 5-1-07 & 5-11-07; cultimulch 5-11-07	Field cultivated 5-3-07	Field cultivated 4-20-07, 5-1-07, 5-11-07
Variety Planting Date Rate	Pion. 35Y67 LL 5-3-07 34,000 s/a	Pion. 35Y67 LL 5-3-07 34,000 s/a	BR 42A32 (NII) 5-14-07 38,000 s/a	Pion. 35Y67 LL 5-3-07 34,000 s/a	BR 42A32 (NII) 5-14-07 38,000 s/a
Starter Fertilizer	100 lb/a 5-14-42	100 lb/a 5-14-42	None	100 lb/a 5-14-42	None
Fertilizer	82% 5-1-07 125 lb N/a	46% 5-2-07 125 lb N/a	150 lb/a 0-0-50 plots 106, 202 (in planter)	None	150 lb/a 0-0-50 plot 110 (in planter)
Manure Credit	None	None	None	4,000 gpa (11-06)	4,000 gpa (11-06)
Pesticides/ Herbicides	Force 3G 4.4 lb/a Pre-emrg: 5-10-07 Credit Extra, Dual II Mag @ 16 oz/a ea.; Post-emrg: 6-9-07 Harness, Liberty @ 32 oz/a ea.	Pre-emrg: 5-10-07 Credit Extra, Dual II Mag @ 16 oz/a ea.; Post-emrg: 6-9-07 Liberty @ 32 oz/a	None	Pre-emrg: 5-10-07 Credit Extra, Dual II Mag @ 16 oz/a ea.; Post-emrg: 5-30-07 Callisto @ 1oz/a; Dual II Mg @ 12 oz/a; Liberty @ 28 oz/a	None
Rotary hoe (RH) /tine weed (TW)	None	None	RH: 5-18, 5-31, 6-7 TW: 5-24-07	None	RH: 5-18-07, 6-7-07 TW: 5-24-07
Cultivation	None	None	'Wilrich' 6-13-07 'Yetter' 6-20-07	None	'Wilrich' 6-13-07 'Yetter' 6-20-07
Hand weed	No	No	None	No	None
Harvest & Yield	10-17-07 204 bu/a	10-17-07 189 bu/a	10-17-05 162 bu/a	10-17-07 215 bu/a	10-17-05 174 bu/a
Fall Practices	10-18-07 Chop stalks; 11-7-07 chisel plow	None	10-18-07 Chop stalks; 11-9-07 MB plow	10-18-07 Chop stalks; 10-29-07 Manure (12k gpa); 11-8-07 chisel plow	10-18-07 Chop stalks; 10-29-07 Manure (8k gpa); 11-9-07 chisel plow
Crop 2008	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

MISC:

Baited ground squirrels burrows with 'Revenge' of no-till corn and pasture plots on 4-18, 4-19, 4-20, 4-21, 4-27.
5-31 hand ranked soil off buried corn in CS5 from 5-24 TW; Anthracnose/stalk rot(?) was observed on CS5 corn in particular.
Alleys: Sprayed when cs2, cs4 and CL corn plots were sprayed; till throughout summer; Spot sprayed c. thistle on west edge of plot 109 and throughout prairie plots in mid-June; hand pulled c. thistles from wheat in plot 212.

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Soybean and Wheat Rotations			
CROP-2007 Rotation Treatment #	NR Soybean CS2 2	WR Soybean/Winter Wheat CS3 4	Wheat/Berseem Clover+oats CS3 6
Plot #'s	108,206,310,408	104,201,301,402	102, 212, 313, 407
Primary Tillage	None	Fall MB plowed 11-26-06	Fall disked & Field cult. 1x after soybean harvest to prep seedbed
Secondary Tillage	None	Field cultivated 4-20-07, 5-1-07, 5-11-07	None
Planting Date	5-11-07	SB: 5-14-07 WW: 10-6-07	WW: 10-9-06 Red clover (accidentally planted) 4-21-07 with no-till drill Berseem clover/oats: 8-13-07
Variety Rate	KB244 RR K (2680 seed/lb) inoc=cell tech 200,000 seed/a	Sb: 'Viking 1832' (2550 seed/lb) 190,000 seeds/a, cell tech inocul; WW: untrd'd Pion 25R47	'Pion. 25R47' untrt WW: 1.6 mill seeds/a (150 lb/a) Berseem/oats: 10 and 32 lb/a
Fertilizer	Plot 108 got 200 lb/a 0-0-60	150 lb/a 0-0-50 on plots 104, 402 (in planter)	None
Pesticides/ Herbicides	Burndown: 5-22-07 Credit extra @ 32 oz/a; Post-emrg: 5-31-07 Credit extra @ 32 oz/a	None	None
Rotary Hoe (RH) /tine weed (TW)	None	RH: 5-18-07 TW: 5-24-07, 5-31-07, 6-7-07, 6-11-07	None
Cultivation	None	1x – Wilrich 6-14-07 1x – Wilrich 6-22-07 (not plot 402)	None
Hand weed	None	None	None
Harvest & Yield	10-5-07 57 bu/a	10-5-07 62 bu/a	Wheat: 7-17-07 84 bu/a Straw: 7-18-07 0.87 tons DM/a
Fall Practices	11-9-07 Strip till	Disk 1x, spread 0-0-50; No-till drill wheat 148 lb/a 10-6-07	Quack digger 2x and field cultivator 1x before summer seeding berseem clover/oats; Disk chisel 11-9-07
Crop 2008	Corn	Wheat / Clover	Corn

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Forage rotations						
CROP-2007 Rotation Treatment #	Dir. Sd. Alfalfa CS4 8	Estab. Alfalfa I CS4 7	Estab. Alfalfa II CS4 10	Oats/Alfalfa CS5 13	Estab. Alfalfa I CS5 12	Pasture CS6 14
Plot #'s	113, 210, 311, 414	111, 209, 305, 409	107, 205, 309, 404	114, 211, 312, 403	103, 213, 314, 410	112, 207, 302, 405
Primary Tillage	chisel plowed 11- 30-06	None	None	chisel plowed 11-30-06	None	None
Secondary Tillage	Disk and cultimulcher 4-21-07	None	None	Disk and cultimulcher 4-21-07	None	None
Variety Planting Date	Golden Harvest 707 4-21-07 (no-till drill)	Magnum V 4-6-06	'Magnum V' 4-14-05	'Forage+' oats and untreated 'Pion. 54H91' 4-21-07 (brillion seeder)	'Forage Plus' oats, 'WL346 LH' alf, 4-6-06	-----
Rate	12 lb/a	12 lb/a	12 lb/a	50 and 12 lb/a	62 and 12 lb/a	
Fertilizer (see map for rates)	None	0-0-60 after 2 nd & 4 th cuts	0-0-60 after 2 nd & 4 th cuts	None	0-0-50 after 2 nd & 3 rd cuts	230 lb/a 0-0-60 on 112 6-6-07; 50 lb N/a (urea) on each, mid-May to early June
Manure credit	12,000 gpa 11-06	None	None	8,000 gpa 11-06	None	Graze May 2- Oct
Pesticides/ Herbicides	Herbicide Post-emrg:5-21-07 Raptor @ 4 oz/a Insecticide 6-11-07, 7-7-07 Warrior 2 oz/a	Insecticide 7-7-07 Warrior 2 oz/a	Insecticide: 7-7-07 Warrior 2 oz/a Herbicide: 9-30-07 Credit @ 48oz/a; Express @ 0.125 oz/a	None	None	Spot spray thistles with Stinger or curtail
Harvest & Yield	<u>Date & T DM/a</u> 6-26 1.16 7-26 1.11 8-31 1.13 total=3.40 T/a	<u>Date & T DM/a</u> 5-23 1.50 6-26 1.27 7-26 0.82 8-31 1.06 total=4.64 T/a	<u>Date & T DM/a</u> 5-23 1.30 6-26 1.03 7-26 0.57 8-31 0.96 total=3.87 T/a	<u>Date & T DM/a</u> 6-29 1.59 8-31 1.71 total=3.31 T/a	<u>Date & T DM/a</u> 5-30 2.01 7-10 0.99 8-31 1.03 total=4.03 T/a	Hayed 207 5-23-07; other plots clipped post graze 1 st cycle
Fall Practices	None	None	10-30-07 Manure (4k gpa); 11-9-07 chisel plow	None	10-29-07 Manure (4k gpa); 11-9-07 chisel plow w/sweeps	Renovated 302 in late August
Crop 2008	Alf I	Alf II	Corn	Alf I	Corn	Pasture

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Satellite – Chemlite plots			
CROP-2007 Rotation Treatment #	Corn (cs3 w/chemical inputs)	WR Soybean/Winter Wheat (cs3 w/chemical inputs)	Wheat/Red Clover (cs3 w/chemical inputs)
Plot #'s	SAT A, E	SAT C, D	SAT B, F
Primary Tillage	Disk ripper on red clover 1-2-07	Fall chisel plowed 11-30-06	Fall disked and field cult. 1x in prep for wheat planting 10-9-06
Secondary Tillage	Field cultivated 5-3-07	Field cultivated 5-14-07	None
Planting Date	5-3-07	SB: 5-14-07 WW: 10-6-07	WW: 10-9-06 Red clover: 4-21-07
Variety Rate	Pioneer 35Y67 LL (Bt) 34,000 seed/a	NK Brand S19-R5 RR 175,000 seed/a; Pioneer 25R47 winter wheat	Pioneer 25R47, 150 lb/a 'Arlington RC', 12 lb/a
Fertilizer	starter: 100 lb 5-14-42 + 50 lb N/a (46% 5-14-07)	150 lb/a 0-0-50 in starter box	60 lb N/a 4-18-07
Pesticides/ Herbicides	Pre emrg: 5-10-07 Credit Extra + Dual II Mag @ 16 oz/a ea.; Post emrg: 6-9-07 Liberty @ 32 oz/a	Post emrg: 6-11-07 Credit Extra @ 32 oz/a	None
Rotary Hoe	None	Tine weeded 6-7-07	None
Cultivation	None	'Wilrich' 7-10-07	None
Harvest & Yield	10-17-07 197 bu/a	10-5-07 60 bu/a	Wheat: 7-17-07 97 bu/a Straw: 7-18-07 0.96 tons DM/a
Fall Practices	10-18-07 Chop stalks; 11-8-07 Chisel plow with twisted shank	160 lb/a K2O; 30 lb N/a; No-till drill wheat 154 lb/a 10-6-07	11-9-07 disk-chisel
Crop 2008	WR Soybeans	Wheat / Red Clover	Corn