

2009 Agronomic Calendar for WICST (Fld 440)

Corn Phase					
Rotation Treatment #	CS1 1	CS2 3	CS3 4	CS4 7	CS5 13
2009 Crop	CORN	CORN	CORN	CORN	CORN
Previous crop (2008)	Corn	Soybeans	Wheat then berseem+oats	Alfalfa II	Alfalfa I
Plot #'s	109,204,306,412	101,214,303,401	104,201,301,402	111,209,305,409	114,211,312,403
Primary Tillage	Disk-Chiseled 11-10-08	None	Disk-Chiseled 11-10-08	Disk-Chiseled 11-10-08	Chisel plow w/sweeps 11-10-08
Secondary Tillage	Field cultivator 2x 5-1-09	Strip tilled 11-5-08 (DW's 4-row unit)	Field cultivator 3x: 5-1, 5-12, 5-18-09	Field cultivator 2x 5-1-09	Field cultivator 3x: 5-1, 5-12, 5-18-09
Variety Planting Date Rate	Pioneer 35F40+poncho1250 5-4-09 34,000 sd/a	Pioneer 35F40+poncho1250 5-4-09 34,000 sd/a	Viking 5305+NII 5-18-09 38,000 sd/a	Pioneer 35F40+poncho1250 5-4-09 34,000 sd/a replanted 6-16-09 ¹	Viking 5305+NII 5-18-09 38,000 sd/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% 4-29-09 160 lb N/a Per PPNT	28% 6-11-09 135 lb N/a Per PPNT; 101 132 lb/a TSP; 101, 401 75 lb/a KCl	1.5 ton/a pelletized poultry manure 4-24-09	None	None
Manure Credit	None	None	None	16k gpa 11-5-08	8k gpa 11-4-08
Pesticides:	Pre-emrg: 5-8-09 Dual II Mag 24 oz/a Post-emrg: 6-15-09 HonchoPlus 24 oz/a, Laudis 3 oz/a	Pre-emrg: 5-8-09 Dual II Mag 24 oz/a, HonchoPlus 24 oz/a Post-emrg: 6-15-09 HonchoPlus 24 oz/a, Laudis 3 oz/a	None	Pre-emrg: 5-8-09 Dual II Mag 24 oz/a Post-emrg: ---- Sick corn –no weeds	None
Rotary hoe (RH) /tine weed (TW)	None	None	RH: 6-1, 6-11 TW: 5-22	None	RH: 6-1, 6-11 TW: 5-22
Cultivation	None	None	'Wilrich' 6-16-09 'Yetter' 6-25-09	None	'Wilrich' 6-16-09 'Yetter' 6-25-09
Hand weed	No	No	Border rows	No	Border rows
Harvest & Yield	11-11-09 196.8 bu/a	11-11-09 205.2 bu/a	11-11-09 170.2 bu/a	10-9-09 silage 6.9 ton DM/a	11-11-09 194.2 bu/a
Fall Practices	Chop stalks 11-12-09; Disk-chisel plow 11-23-09	None	Chop stalks 11-12-09; Disk-chisel plow 11-23-09	Manure 11-17-09 16000gpa; Disk-chisel plow 11-23-09	Chop stalks 11-12-09; Manure 11-17-09 16000gpa; Disk-chisel plow 11-23-09
Crop 2010	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

¹ first planting of corn died from carry-over of herbicide that was mistakenly applied last fall; silage was removed since grain didn't mature

Baited ground squirrels burrows with 'Revenge' on and around no-till corn and pasture plots 5-21-09; minor issue in 2009
Alleys: roto-tilled about 1x/month during the summer.

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Soybean and Wheat Phases			
Rotation Treatment #	CS2 2	CS3 6	CS3 5
2009 Crop	No-till Soybean	Soybean/Winter Wheat	Wheat/Berseem Clover+oats
Previous crop (2008)	Corn	Corn	Soybeans
Plot #'s	108,206,310,408	102,212,313,407	106,202,307,411
Primary Tillage	None	Disk-chisel plow 11-10-08	Fall disked 1x after soybean harvest to prep seedbed- 10-13-08
Secondary Tillage	None	Field cultivator: 5-12-09 and 5-18-09	None
Planting Date	5-18-09	SB: 5-18-09 WW: 10-13-09	WW: (10-13-08) – moderate winterkill ¹ Cover crop: 8-13-09
Variety Rate	'Dairyland 2200(RR)' inoc=cell tech 225,000 seed/a (3128 sd/lb)	Sb: BR 16A7 (3300 sd/lb) inoc=cell tech 196,000 sd/a WW: untrt'd 'Kaskaskia' ~150 lb/a	WW: untrt'd Pion. 25R47 1.6 million seeds/a Berseem/Kame oats: 10 and 40 lb/a
Fertilizer	50-100 lb/a 0-0-60	90 lb/a 0-0-50 in start box; all but plot 407; +102 160 lb/a 0-0-50	160 lb/a 0-0-50; 1 ton/a CPM 4-24-09
Pesticides	Burndown: 5-8-09 Dual II Mg, 24 oz/a, 2,4-D ester 8oz/a, Honcho Plus 24 oz/a Post-emrg: 6-23-09 GlyfosXtra	None	None
Rotary Hoe (RH) /tine weed (TW)	None	RH: 0 TW: 5-22, 5-26, 6-4, 6-11	TW 5-8-09 (fairly ineffective as weeds already too big)
Cultivation	None	'Wilrich' 6-25-09; 7-6-09	None
Hand weed	None	Border rows	None
Harvest & Yield	10-13-09 48.4 bu/a	10-12-09 49.6 bu/a	Wheat: 60.6 bu/a on 8-4-09 Straw: 0.83 tons DM/a on 8-7-09
Fall Practices	Manured eastern 15' 16,000 gpa 11-10-09 Strip tilled with 4-row unit 11-23-09	Flatten ridges with shallow disking 10-13-09, No-till drilled wheat @ 155 lb/a 'Kaskaskia'	Disked 2x 8-7-09; Quack digger 1x 8-12-09; field cultivator 1x and seeded berseem clover/oats with NT drill 8-12-09; Manured eastern 15' 16,000 gpa 11-10-09 Fall disk-chisel 11-23-09
Crop 2010	Corn	Wheat / Clover	Corn

¹ some winterkill in each plot but plot 307 all dead; chopped and removed weeds 6-25-09

2009 Agronomic Calendar for WICST (Fld 440)

Forage Phases						
Rotation Treatment #	CS4 10	CS4 9	CS4 8	CS5 12	CS5 11	CS6 14
2009 Crop	Dir. Sd. Alfalfa	Estab. Alfalfa I	Estab. Alfalfa II	Oats/Alfalfa	Estab. Alfalfa I	Pasture
Previous crop (2008)	Corn	D.S. Alfalfa	Alfalfa I	Corn	Oat/Alfalfa	Pasture
Plot #'s	107,205,309,404	105,203,308,406	113,210,311,414	103,213,314,410	110,208,304,413	112, 207,302, 405
Primary Tillage	Disk-chisel plow 11-10-08	None	None	Disk-chisel plow 11-10-08	None	None
Secondary Tillage	Field cultivator 4-10-09 2x	None	None	Field cultivator 4-10, 4-13 1x	None	None
Variety Planting Date	'Summergold' 4-10-09 (rep 2 wet; seeded 5-19-09 and again 8-12-09)	'Golden Harv 707' 4-30-08	-----	Org. Kame oats; Org. WL 347LH alfalfa 4-13-09	'Esker' oats & untreated 'Pion. 54H91' 4-30-08	None
Rate	12 lb/a	-----	-----	64 and 15 b/a	-----	
Fertilizer (see map for rates)	None	0-0-60 6-1-09 250 lb/a	0-0-60 6-1-09 250 lb/a	None	0-0-50 6-1-09 300 lb/a	60 lb N/a (urea) on each plot, June 1; 0-0-60 per STK
Manure credit	16,000 gpa 11-5-08	None	None	16,000 gpa 11-5-08	None	Grazed May 6-Oct 7th
Pesticides (as needed)	Herbicide: Post-emrg: 6-9-09 Pursuit 3 oz/a; 7-1-09 Raptor 3oz/a Insecticide: 7-1-09 & 7-31-09 Warrior 2 oz/a	Insecticide: None	Insecticide: None Herbicide: 10-9-09 Mirage Plus 40 oz/a (ineffective)	None	None	Spot sprayed thistles with Stinger
Harvest & Yield	1 st : 7-20-09 2 nd : 8-25-09 1.35 tons DM/a	1 st : 5-30-09 2 nd : 7-8-09 3 rd : 8-13-09 4 th : 10-19-09 5.63 tons DM/a	1 st : 5-30-09 2 nd : 7-8-09 3 rd : 8-13-09 4 th : 10-19-09 4.53 tons DM/a	1 st : 6-29-09 2 nd : 8-25-09 2.14 tons DM/a	1 st : 5-30-09 2 nd : 7-8-09 3 rd : 8-13-09 4 th : 10-19-09 5.14 tons DM/a	Hayed 207 5-30 & 405 6-30-09 Clipped 1 st cycle post-graze all others Hay enclosure: 2.87 t dm/a
Fall Practices	None	None	Manure 11-17-09 (16000 gpa); Chisel plow w/sweeps 11-24-09	None	Manure 11-17-09 (8000 gpa); chisel plow w/sweeps 11-24-09	None
Crop 2010	Alf I	Alf II	Corn	Alf I	Corn	Pasture

2009 Proposed Agronomic Calendar for WICST (Fld 440)

Satellites				
	Flex-till 3-phase system			Biofuel
2009 Crop	Corn	Drilled Soybeans /Winter Wheat	No-till Wheat/Red Clover	Switchgrass
Previous crop (2008)	Wheat/red clover	Corn	Soybeans	switchgrass
Plot #'s	C, D	B, F	A, E	501, 504, 508
Primary Tillage	Disk-chisel plowed 11-10-08	None	None	None
Secondary Tillage	Field cultivator 2x; 5-1-09	None	None	None – burned plots 4-11-09
Planting Date	5-4-09	5-18-09	No-till drill red clover 4-13-09	Planted 8-17-07
Variety Rate	Pioneer 35F40 +poncho1250 34,000 sd/a	SB: Kaltenberg1809 RR 225,000 seed/a (2900 sd/lb)	RC: 'Arlington' 12 lb/a	'Forestberg' 10 lb PLS/a
Fertilizer	100 lb/a 5-14-42, Sat C 75 lb/a 0-0- 60, 132 lb/a TSP; 60 lb N/a as 28% per PPNT 6-11-09;	Sat B 132 lb/a TPS on 4-29-09; B and F 150 lb/a 0-0-60 5-1-09	50 lbs N/a (urea) 4-15-09 Sat A 132 lb/a TSP 4-29-09; A&E 150 lb/a 0-0-60 5-1-09	None
Pesticides (as needed)	Pre-plant: none Post emrg: full rate 6-15-09 Honcho Plus 24 oz/a, Laudis 3 oz/a	Pre-plant: 5-8-09 Dual II Mag, 24 oz/a; 2,4-D ester 8 oz/a, Honcho Plus 24 oz/a; Post emrg: 6-23-09 Glyphos Xtra 24 oz/a	None on wheat; Sprayed Mirage Plus 10-9-09 40 oz/a (ineffective)	Honcho Plus 24 oz/a 4-23-09 24oz/a
Rotary Hoe/Tine	None	None	None	None
Cultivation	None	None	None	Hand pulled c. thistle 6-9-09
Harvest & Yield	11-11-09 195.8 bu/a	10-13-09 50.4 bu/a	8-4-09 Wheat: 71.8 bu/a 8-6-09 Straw: 0.92 ton DM/a	10-29-09 1.98 Tons DM/a
Fall Practices	Disk-chiseled 11-23-09	Disk-chiseled 11-23-09	fall chisel w/sweeps 11-24-09	None
Crop 2010	Spring wheat	Spring wheat	Spring wheat	Switchgrass