

2013 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2013 Rotation Treatment #	CORN CS1 1	CORN CS2 3	CORN CS3 5	CORN CS4 7	CORN CS5 11
Plot #'s	109, 204, 306, 412	101, 214, 303, 401	106, 202, 307, 411	111, 209, 305, 409	110, 208, 304, 413
Primary Tillage	Disk-chiseled 11-16-2012	Strip-tilled 11-2-2012	Disk-chiseled 11-16-2012	Disk-chiseled 11-16-2012	Disk-chiseled 11-16-2012
Secondary Tillage	Field cultiv. 5-6-2013	None	Field cultiv. 5-6-2013 6-4-2013	Field cultiv. 5-6-2013	Field cultiv. 5-6-2013 6-4-2013
Planting Date Variety Rate	5-7-2013 FS 53TV4 103d, 34,000 seeds/a	5-7-2013 FS 53TV4 103d, 34,000 seeds/a	Blue River 41R00C (C30') 6/7/2013 36,000 sds/ac FS 53TV4 (E15' + W15') 5/7/2013 34,000 sds/ac	5-7-2013 FS 53TV4 103d, 34,000 seeds/a	6-7-2013 Blue River 41R00C 36,000 seeds/a
Starter Fertilizer	100 lbs/ac 5-14-42	100 lbs/ac 5-14-42	100 lbs/ac 5-14-52 (E15' + W15') 5/7/2013	100 lbs/ac 5-14-42	None
Misc Fertilizer	None	0-0-60 4/24/2013 401 (W45'): 30 lbs/ac 18-46-0 4/25/2013 101 & 401 (W45'): 60 lbs/ac	None	None	None
Nitrogen Fertilizer	28% UAN 6/27/2013 109, (W45') 156 lbs N/ac 204, (W45') 156 lbs N/ac 306 (W45'): 102 lbs N/ac 412 (W45') 156 lbs N/ac 109, (E15'): 60 lbs N/ac 204, (E15'): 60 lbs N/ac 306 (E15') 15 lbs N/ac 412 (E15'): 60 lbs N/ac	28% UAN 6/27/2013 156 lbs N/ac (W45') 75 lbs N/ac (E15')	None	None	None
Manure	11,000 GPA liquid manure (Blaine Dairy) 10/30/2012 (E15')	11,000 GPA liquid manure (Blaine Dairy) 10/30/2012 (E15')	11,000 GPA liquid manure (Blaine Dairy) 10/30/2012 (E15') CPM on 4/26/2013 106 (W45'): 3.35 ton/ac, 202, 307, 411 (W45'): 2 t/ac	8,000 GPA liquid manure (Blaine Dairy) 10/30/2012	12,000 GPA liquid manure (Blaine Dairy) 10/30/2012
Pesticides/ Herbicides	Post-emerge 6/17/2013 109, 204, 412 Roundup Power Max (22oz/ac) + Laudis(3lbs/ac) + AMS(2lbs/ac) + MSO(25oz/ac)	Pre-emerge 5/6/2013 Dual II Magnum(27oz/ac) + Callisto(6oz/ac) + Roundup Power Max (22oz/ac) + Banvel(12oz/ac) + FS Transform Plus(12oz/ac) Post-emerge 6/28/2013 Roundup Power Max (40oz/ac) + Laudis(3lbs/ac) + AMS(2.5lbs/ac) + MSO(25oz/ac)	None	Post-emerge 6/17/2013 Roundup Power Max (22oz/ac) + Laudis(3lbs/ac) + AMS(2lbs/ac) + MSO(25oz/ac)	None
Rotary Hoe	None	None	(E15' W15') 5/24/2013 (E15' W15') 6/7/2013 (C30') 6/17/2013 (C30') 6/24/2013	None	RH: 6/17/2013 RH: 6/24/2013
Cultivation	None	None	(E15' W15') 6/17/2013 (C30') 7/3/2013	None	7/3/2013 'Wilrich'
Harvest Date & bu/a	E/W 10/22/2013 Main 10/25/2013 189 bu/ac	E/W 10/22/2013 Main 10/25/2013 221 bu/ac	E/W 10/22/2013 Main 11/7/2013 178 bu/ac	10/25/2013 245 bu/ac	11/7/2013 185 bu/ac
Fall Practices	Chop stalks (Balzer 15') 11-9-2013 Disk-chisel (AGCo 4511) 12-5-2013	None	Chop stalks (Balzer 15') 11-9-2013 Disk-chisel (AGCo 4511) 12-5-2013	Chop stalks 10/25/2013 12,000 GPA liquid manure (Blaine Dairy) 11/20/2013 Disk-Chisel (AGCO 4511) 12/5/2013	Chop stalks 10/25/2013 12,000 GPA liquid manure (Blaine Dairy) 11/20/2013 Disk-Chisel (AGCO 4511) 12/5/2013
Crop 2014	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

Lime (80-89grade) was applied to select plots at 2 ton/a on 11-9-12

*Two rotary hoeings occurred in CS3 corn (center) and CS5 corn in June. Exact dates unknown

Organic Corn- Plots 106 & 411 only 1/2 done due to corn being planted too tight. Plots 202 & 307 ok.

Finished cultivating plots 106 and 411 on 7/5/2013.

Post-emerge herbicide application on CS1 corn missed block 3 (plot 306); Weed pressure extensive for this plot

Soybean and Wheat Rotations			
CROP-2013	NR Soybean	WR Soybean/Wheat	Wheat/oat berseem clover cover crop
Rotation	CS2	CS3	CS3
Treatment #	2	4	6
Plot #'s	108, 206, 310, 408	104, 201, 301, 402	102, 212, 313, 407
Primary Tillage	None	Disk-chiseled 11-16-2012	disked 9-25-2012 before seeding wheat
Secondary Tillage	None	Field Cultivated 6/4/2013	None
Planting Date	6-4-2013	SB: 6-7-2013 WW: 10-11-2013	WW: 9-25-2012 CC: 8-13-2013 Both with NT drill
Variety Rate	Pioneer 91Y92 225,000 seeds/ac	SB: Blue River 17C2 190,000 viable seeds/ac; WW: MOFC 1021 @ 125 lb/a(drill set at 150 lbs/ac)	WW: Albert Lea W1377 (organic): 150 lb/ac; CC: 12 lb/ac berseem clover; 70 lb/ac Forage Plus oats
Fertilizer	0-0-60 4/24/2013: 108 (W45'): 75 lbs/ac 18-46-0 4/25/2013: 108 (W45'): 60 lbs/ac	0-0-50-17S 5/6/2013: 104 & 402: 170 lbs/ac 201 & 301: 40 lbs/ac	1 ton/ac CPM 4-26-2013 0-0-50-17S 5/6/2013: 102 & 313 (W45'): 26 lbs/ac
Pesticides/ Herbicides/ Cultivation	<u>Burndown:</u> 5/24/2013 Roundup PowerMAX(22oz/ac) + FS Transform Plus(12oz/ac) <u>Post-emerge:</u> 7/3/2013 Roundup PowerMAX (30 oz/ac) + Assure II (5 oz/ac) + NIS(6 oz/ac)	Tine Weeding: 6/18/2013 7/1/2013 (Wil-Rich) 7/12/2013 (Wil-Rich)	None
Harvest date & yield	10-10-2013 58 bu/ac	10-2-2013 40 bu/ac	Wheat: 7-30-2013, 56 bu/ac Straw: 8-8-2013, 1.53 t dm/ac
Fall Practices	12k GPA Manure eastern 15' 11-20-2013 Strip till 12-5-2013	CaseIH Turbo-tilled 2.5" 10/2/2013 AGCo 5035 Soil finisher 10/10/2013 Drill wheat 10-11-2013	AGCo 5035 Field cultivator 8-12-2013 AGCo 5035 Field cultivator 8-13-2013 Plant berseem/oats 8-13-2013 12k GPA Manure E 15' 11-20-2013 AGCo 4511 Disk-chisel 12-5-2013
Crop 2014	Corn	Wheat / Clover+oats	Corn

Notes: Organic Soybeans (Plot 201 too wet - done on 7/3/2013), only Plot 201 - rest of plots done on 7/1/2013.

Forage rotations						
CROP-2013 Rotation Treatment #	D.S. Alfalfa CS4 10	Alfalfa I CS4 9	Alfalfa II CS4 8	Oats/Alfalfa CS5 13	Alfalfa I CS5 12	Pasture CS6 14
Plot #'s	107, 205, 309, 404	105, 203, 308, 406	113, 210, 311, 414	114, 211, 312, 403	103, 213, 314, 410	112, 207, 302, 405
Primary Tillage	Disk-chiseled 11-16-2012	None	None	Disk-chisel (deep) 11-16-2012	None	None
Secondary Tillage	Field Cultivator (Brillion) 4/26/2013 Field Finisher (Krause) 4/29/2013	None	None	Field Cultivator (Brillion) 4/26/2013 Field Finisher (Krause) 4/29/2013	None	None
Variety	Hybrid Force 2400	Pioneer 54Q32	Pioneer 54Q32	WL353LH & Forage Plus Oats	WL 353LH	Red Clover: Freedom White Clover: Kopu II
Planting Rate & Date	12 lb/a 4-29-2013	12 lb/a 3-21-2012	12 lb/a 4-13-2011	Alf - 12 lb/a oats 40 lb/a 4/29/2013	Alf - 12 lb/a oats 80 lb/a 3-21-2012	11 lbs/ac 4/22/2013
Fertilizer (K20 per soil test)	None	150 lbs 0-0-60/ac 7-18-2013	250 lbs 0-0-60/ac 210: 7/18/2013 409: 7/18/2013 113: 8/30/2013 311: 8/30/2013	None	360 lbs 0-0-50-17S/ac 103: 8/30/2013 213: 7/18/2013 314: 8/30/2013 410: 7/18/2013	147 lbs 34-0-0/ac 112: 6/18/2013 207: 6/11/2013 302: 7/2/2013 405: 6/11/2013 0-0-60 4/24/2013 112: 210 lbs/ac 0-0-60 8/7/2013 112: 210 lbs/ac
Manure	12,000 gpa Blaine dairy manure 10-30-2012	None	None	12,000 gpa Blaine dairy manure 10-30-2012	None	Grazing 6 heifers 5-13-2013 to 10-9-2013
Pesticides/ Herbicides (Per scout report)	Herbicide <u>Post-emerge:</u> 6/18/2013 Raptor(5 oz/ac) + 28%UAN (64 oz/ac) + COC(32 oz/ac) Insecticide 7/25/2013 Warrior Zeon (2 oz/ac)	None	Burndown: 10/9/2013 Roundup PowerMAX (28oz/ac) + Weedone LV4(16 oz/ac) + AMS(3 lbs/ac)	None	None	None
Harvest	7/17/2013 8/27/2013 1.89 T DM/a	6-19-2013 7-17-2013 8-27-2013 5.08 T DM/a	6-19-13 7-17-13 8-27-13 9-27-13 5.72 T DM/a	<u>Oatlage:</u> 7-8 <u>Haylage:</u> 8-27 3.95 T DM/a	6-19-13 7-17-13 8-27-13 5.02 T DM/a	Exclosure yield (4 cuttings) 4.85 ton DM/ac
Fall Practices	None	None	8k gpa Manure (Blaine Dairy) 11/20/2013	None	12k gpa Manure (Blaine Dairy) 11-20-2013 Deep disk-chisel (2x) 12-5-2013	None
Crop 2014	Alf I	Alf II	Corn	Alf I	Corn	Pasture

Lime (80-89grade) was applied to select plots at 2 ton/a on 11-9-12

CS4 T10 plot No.'s 107 and 205 Alfalfa reseeded due to planter skip, (Interseeding)Variety: 80% Hybrid Force 2400, 20% unknown alfalfa variety Date: 5/22/2013 Rate: 12 lbs/ac

Hand weeding in plot No. 313 for Canada Thistle 7-2 through 7-3, 2013

Pasture plot No. 112 clipped on 5/14/13 and 6/17/13. Pasture plot No. 302 clipped on 5/24/13 and 7/2/13.

NATIVE PLOTS (switchgrass, high diversity and low diversity prairie; N=9)				
Forage management	SARE Project			GLBRC
	Grazing	Mowing	Control	Biofuel Research
Area of Plots	-----Fenced area-----		-----Unfenced area-----	
Prescribed Burn	4/29/2013		4/29/2013	None
Fertilizer	None other than manure from grazing heifers		None	50 lb N/a on main plot (34-0-0)
Pesticides (<i>spot spray Stinger on thistles as needed</i>)	None		None	None
Grazing or Harvest	June 28-July 9; Sept 5 – Sept 10		None	10-23-2013
Other Practices	None	None	None	None