

2012 Agronomic Calendar for WICST (440)**ARLINGTON RESEARCH STATION**

Corn rotations					
CROP-2012 Rotation Treatment #	CORN CS1 1	CORN CS2 2	CORN CS3 4	CORN CS4 10	CORN CS5 13
Plot #'s	109, 204, 306, 412	108, 206, 310, 408	104, 201, 301, 402	107, 205, 309, 404	114, 211, 312, 403
Primary Tillage	Disk-chiseled 11-21-11	Strip-tilled 11-23-11	Disk-chiseled 11-21-11	Disk-chiseled 11-21-11	Disk-chiseled 11-21-11
Secondary Tillage	Field cultiv. 5-9-12 2x	None	Field cultiv. 5-9-12 2x	Field cultiv. 5-9-12 2x	Field cultiv. 3-25-12 1x 5-9-12 2x
Planting Date Variety Rate	5-10-12 Pion 35F40 105d, Bt(ECB) 34,000 seeds/a	5-10-12 Pion 35F40 105d, Bt(ECB) 34,000 seeds/a	5-10-12 Viking O6710 36,000 seeds/a	5-10-12 Pion 35F40 105d, Bt(ECB) 34,000 seeds/a	5-10-12 Viking O6710 36,000 seeds/a
Starter Fertilizer & misc.	100 lb 5-14-42; 4 lb/a Force 3G	100 lb 5-14-42; Zinc phosphide 108: 87 lbs 18-46- 0/ac	None	100 lb 5-14-42 107, 309, 404: 2 ton lime/ac	114, 211: 2 ton lime/ac
Nitrogen Fertilizer	109,204, 412: 115 lb N/a 306: 156 lb N/ac as 82% preplant	108, 310: 119 lb N/a 206, 408: 104 lb N/ac	None	None	None
Manure	None	None	2 ton/a CPM 4-27-12	8,000 gal/a 11-15-11	11,800 gal/a 11-15-11
Pesticides/ Herbicides	Pre-emrg: 5-12 Dual II Magnum Post-emrg: 6-6 Glyphosate, Laudis	<u>Burdown</u> : 4-27 27 oz/a Dual II Magnum, 6 oz/a Callisto; 22 oz/ RU P-max; 11 oz/a 2,4-D LV4 Post-emrg: 6-6-12 Glyphosate, Laudis	None	Pre-emrg: 5-12 Dual II Magnum Post-emrg: 6-6 Glyphosate, Laudis	None
Rotary Hoe	None	None	5-23, 5-29	None	5-23, 5-29
Cultivation	None	None	6-7 'Wilrich' 6-14 'Yetter'	None	6-7 'Wilrich' 6-14 'Yetter'
Harvest Date & bu/a	10-11-12 162 bu/ac	10-11-12 190 bu/ac	10-11-12 153 bu/ac	10-11-12 199 bu/ac	10-11-12 182 bu/ac
Fall Practices	Chop stalks 10-25-12 Disk-chisel 11-16-12	None	Chop stalks 10-25-12 Disk-chisel 11-16-12	Chop stalks 10-25-12 12k gpa manure 10-30-12 Disk-chisel 11-16-12	Chop stalks 10-25-12 12k gpa manure 10-30-12 Disk-chisel 11-16-12
Crop 2013	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

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

Updated 13 August 2018

Soybean and Wheat Rotations			
CROP-2012	NR Soybean	WR Soybean/Wheat	Wheat/oat berseem clover cover crop
Rotation	CS2	CS3	CS3
Treatment #	3	6	5
Plot #'s	101, 214, 303, 401	102, 212, 313, 407	106, 202, 307, 411
Primary Tillage	None	Disk-chiseled 11-21-11	disked 1x 10-6-11 before seeding wheat
Secondary Tillage	None	5-10-12, 5-14-12	None
Planting Date	5-11-12	SB: 5-14-12 WW: 9-25-12	WW: 10-7-11 CC: 8-6-12 Both with NT drill
Variety	Dairyland 2011/R2Y	Sb: Blue River 16C1	Org 'W1377': 140 lb/a;
Rate	225,000 seeds/a 3131 sd/lb	190,000viable seeds/a; 3250 sd/lb WW: 'W1377' @ 160 lb/a	14 lb/s berseem clover; 70 lb/a Forage Plus oats
Fertilizer	101: 142 lbs 0-0-60/ac 303,401: 75 lbs 0-0-60/ac	102: 170 lbs 0-0-50/ac 212,313: 90 lbs 0-0-50/ac	0.75 tons/a CPM 4-27-12; K2O per soil test late April
Pesticides/ Herbicides	<u>Burndown:</u> 4-23-12 2,4-D, glyphosate, AMS <u>Post-emerg:</u> 6-20-112 Glyphosate, status, AMS 7-20, 8-17 Dimethoate 1 pt/a	None	None
Rotary Hoe/ Tine Weed	None	RH: 5-23-12 TW: 6-7-12	None
Cultivation	None	6-22-12, 7-5-12 with 'Wilrich'	None
Harvest date & yield	9-27-12 61 bu/a	9-24-12 43 bu/a	Wheat: 7-5-12, 99 bu/a Straw: 7-6-12, 1.22 ton dm/a
Fall Practices	Manure eastern 15' 10-30-12 Strip till 11-2-12	Disk 9-25-12 Drill wheat 9-25-12	Field cultivator 8-5-12 Plant berseem/oats 8-6-12 Manure eastern 15' 10-30-12 Disk-chisel 10-16-12
Crop 2013	Corn	Wheat / Clover+oats	Corn

Forage rotations						
CROP-2012 Rotation Treatment #	D.S. Alfalfa CS4 9	Alfalfa I CS4 8	Alfalfa II CS4 7	Oats/Alfalfa CS5 12	Alfalfa I CS5 11	Pasture CS6 14
Plot #'s	105, 203, 308, 406	113, 210, 311, 414	111, 209, 305, 409	103, 213, 314, 410	110, 208, 304, 413	112, 207, 302, 405
Primary Tillage	Disk-chiseled 11-21-11	None	None	Disk-chiseled 11-21-11	None	None
Secondary Tillage	Field cultivator 3-20-12	None	None	Field cultivator 3-20-12	None	None
Planting Date Variety	3-21-12 Pioneer 54Q32	4-13-11 Pioneer 54Q32	3-30-10 Dairyland 'Hybrid2400'	3-21-12 'WL 353LH' Alfalfa & 'Forage Plus' oats	4-13-11 'WL 347LH' & 'Forage Plus' oats	frost seed – Kopu II white clover 3-19-12
Rate	12 lb/a	12 lb/a	12 lb/a	Alf - 12 lb/a oats 80 lb/a	Alf - 12 lb/a oats 80 lb/a	3-5 lb/a
Fertilizer	All plots: 2 ton lime/ac	113,210: 150 lbs 0-0-60/ac 311, 414: 300 lbs 0-0-60/ac 311, 414: 2 ton lime/ac	111: 500 lbs 0- 0-60/ac 209: 250 lbs 0- 0-60/ac 305: 250 lbs 0- 0-60/ac 409: 125 lbs 0- 0-60/ac 111, 305, 409: 2 ton lime/ac	213, 410: 2 ton lime/ac	All Plots: 360 lbs 0-0-50/ac 208, 304: 2 ton lime/ac	All plots: 40 lb N/a as urea 5-31-12 112,207: 208 lb 0-0-60/ac 207: 2 ton lime/ac
Manure	8,000 gpa 11-15-11	None	None	11,800 gpa 11-15-11	None	Grazing 6 heifers 4-30-12 to 10- 7-12
Pesticides/ Herbicides (Per scout report)	Herbicide Post-emerge: 5-17-12 5 oz/ Raptor, 24 oz/a Poast, COC, 28% Insecticide Warrior Zeon	Insecticide Warrior Zeon 6- 26-12	Insecticide Warrior Zeon 6- 26-12 Herbicide 10-3-12 2,4-D, glyphosate	None	None	None
Harvest	6-20-12 8-23-12 1.73 T DM/a	5-17-12 6-19-12 7-17-12 8-23-12 5.55 T DM/a	5-17-12 6-19-12 7-17-12 8-23-12 5.67 T DM/a	Oatlage: 6-19 Haylage: 8-23 4.18 T DM/a	5-17-12 6-19-12 7-17-12 8-23-12 4.69 T DM/a	Post-graze clipping in June; hayed 207 5-24-12 2.97 T DM/a
Fall Practices	None	None	8k gpa Manure 10-30-12 Disk-chisel 11-16-12	None	12k gpa Manure 10-30-12 Deep disk-chisel 11-16-12	None
Crop 2013	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

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	March 28 (p.m.)		March 29 (a.m.)	None
Fertilizer	None other than manure from grazing heifers		None	50 lb N/a on main plot (34-0-0)
Pesticides (as needed)	Spot sprayed thistles with Stinger (backpack)		Switchgrass plots: 5-16-12 Spot sprayed thistles with Stinger (backpack)	5-16-12 spot sprayed thistles and other broadleaf with 0.5 pt/a Stinger, 2 pt/a 2,4-D LV
Grazing or Harvest	May 30-June 8; July 26-Aug 1; Sept 12 – Sept 19		Mowed Laura Smith's old plots 5-14-12	10-16-12
Other Practices	None	None	None	None