

2011 Agronomic Calendar for WICST (440)
ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2011 Rotation Treatment #	CORN CS1 1	CORN CS2 3	CORN CS3 6	CORN CS4 9	CORN CS5 12
Plot #'s	109, 204, 306, 412	101, 214, 303, 401	102, 212, 313, 407	105, 203, 308, 406	103, 213, 314, 410
Primary Tillage	Disk-chiseled 11-8-10	Strip-tilled 11-8-10	Disk-chiseled 11-8-10	Disk-chiseled 11-5-10	Chisel w/sweeps 11-8-10
Secondary Tillage	Field cultiv. (1x) 5-6-11	None	Field cultiv. (2x) 5-19-11	Field cultiv. (1x) 5-6-11	Field cultiv. (1x) 4-12-11 (1x) 5-6-11 (2x) 5-19-11
Planting Date Variety Rate	5-6-11 Dekalb 52-59 102d, Triple stk 34,000 seeds/a	5-6-11 Dekalb 52-59 Triple stack 34,000 seeds/a	5-20-11 Blue River 41R00C 36,000 seeds/a	5-6-11 Dekalb 52-59 Triple stack 34,000 seeds/a	5-20-11 Blue River 41R00C 36,000 seeds/a
Starter Fertilizer	100 lb 5-14-42	100 lb 5-14-42	None	100 lb 5-14-42	None
Nitrogen Fertilizer	160 lb N/a as 82% preplant per PPNT 5-2-11	135 lb N/a as 28% sidedress 6-25-11; per PPNT; P&K per soil test	None	None	None
Manure	None	None	1.5 ton/a CPM 5-19-11	8,000 gal/a 11-2-10	11,800 gal/a 11-2-10
Pesticides/ Herbicides (TBD by weed community)	<u>Pre-emrg:</u> Dual II Magn <u>Post-emrg:</u> Glyphosate, Laudis	<u>Pre-emrg:</u> Dual II Magn <u>Post-emrg:</u> Glyphosate, Laudis	None	<u>Pre-emrg:</u> Dual II Magn <u>Post-emrg:</u> Glyphosate, Laudis	None
Rotary Hoe	None	None	5-27, 6-2	None	5-27, 6-2
Cultivation	None	None	'Wilrich' 6-17 'Yetter' 6-29	None	'Wilrich' 6-17 'Yetter' 6-29
Harvest	10-27-11 211 bu/a	10-27-11 202 bu/a	10-27-11 158 bu/a	10-27-11 229 bu/a	10-27-11 175 bu/a
Fall Practices	Chop stalks Disk-chisel 11-21-11	None	Chop stalks Disk-chisel 11-21-11	Chop stalks 12k gpa manure 11-15-11 Disk-chisel 11-21-11	Chop stalks 12k gpa manure 11-15-11 Disk-chisel 11-21-11
Crop 2012	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

Soybean and Wheat Rotations			
CROP-2011	NR Soybean	WR Soybean/Wheat	Wheat/Berseem Clover – oats cover crop
Rotation Treatment #	CS2 2	CS3 5	CS3 4
Plot #'s	108, 206, 310, 408	106, 202, 307, 411	104, 201, 301, 402
Primary Tillage	None	Disk-chiseled 11-8-10	disked 2x 9-29-10
Secondary Tillage	None	Field cultivator 2x 5-19-11	None
Planting Date	5-23-11	SB: 5-20-11 WW: 10-7-11	WW: 9-30-10 CC: 8-11-11 Both with NT drill
Variety Rate	Dairyland 2375/R2Y 225,000 seeds/a 3440 sd/lb	Sb: Blue River 16C1 225,000 seeds/a; 3250 sd/lb WW: 'W1377' @ 160 lb/a	Untrt'd Kaskaskia: 140 lb/a; 15 lb/s berseem clover; 40 lb/a Forage Plus oats
Fertilizer	K2O, P2O5 per soil test 5-4-11	K2O, P2O5 per soil test 5-18-11	0.5 tons/a CPM 5-19-11; K2O per soil test 5-18-11
Pesticides/ Herbicides (TBD)	<u>Burndown:</u> 2,4-D, glyphosate, AMS <u>Post-emerg:</u> Glyphosate, status, AMS	None	None
Rotary Hoe/ Tine Weed	None	RH: 5-27, 6-8 TW: 6-13, 6-25	None
Cultivation	None	'Wilrich' 6-29, 7-18	None
Harvest	10-10-11 55 bu/a	10-4-11 59 bu/a	Wheat: 7-26-11, 67 bu/a Straw: 8-1-11, 1.06 t DM/a
Fall Practices	Manure eastern 15' 11-16-11 Strip till 11-23-11	Disk to flatten ridges on 10-6-11, Drill wheat on 10-7-11	Quack digger 8-5-11 Field cultivator 8-11-11 Plant berseem/oats 8-11-11 Manure eastern 15' 11-16-11 Disk-chisel 11-21-11
Crop 2012	Corn	Wheat / Clover	Corn

Forage rotations						
CROP-2011 Rotation Treatment #	D.S. Alfalfa CS4 8	Alfalfa I CS4 7	Alfalfa II CS4 10	Oats/Alfalfa CS5 11	Alfalfa I CS5 13	Pasture CS6 14
Plot #'s	113,210, 311,414	111,209, 305,409	107,205, 309,404	110, 208, 304, 413	114, 211, 312, 403	112, 207, 302, 405
Primary Tillage	Disk-chiseled 11-5-10	None	None	Disk-chiseled 11-5-10	None	None
Secondary Tillage	Field cultivator (2x) 4-12-11	None	None	Field cultivator (2x) 4-12-11	None	None
Planting Date Variety	4-13-11 Pioneer 54Q32	3-30-10 <i>Dairyland 'Hybrid2400'</i>	4/10/09 <i>SummerGold</i>	4-13-11 'WL 347LH' Alfalfa & 'Forage Plus' oats	3-30-10 <i>Pion 53H92& 'Forage Plus'</i> oats	None
Rate	12 lb/a	12 lb/a	12 lb/a	Alf - 12 lb/a oats 40 lb/a	Alf - 12 lb/a oats 40 lb/a	-----
Fertilizer (K20 per soil test)	None	250-500 lb/a KCl 6-4-11, 8-1-11	250-500 lb/a KCl 6-4-11, 8-1-11	None	600 lb/a K2SO4 6-5-11, 8-1-11	40 lb N/a as urea 8-16-11 and 210 lb/a KCl 8-1-11
Manure	11,800 gpa 11-2-10	None	None	11,800 gpa 11-2-10	None	Grazing 6 heifers
Pesticides/ Herbicides (Per scout report)	Herbicide <u>Post-emerge:</u> Raptor Insecticide Warrior 8-4-11	Insecticide None	Insecticide None Herbicide 2,4-D, glyphosate	None	None	None
Harvest	7-14-11 8-30-11 = 2.60 t DM/a	6-3-11 6-29-11 7-30-11 9-22-11 = 5.22 t DM/a	6-3-11 6-29-11 7-30-11 9-22-11 = 4.24 t DM/a	<u>Oatlage:</u> 7-8-11 = 3.24 t DM/a <u>Haylage:</u> None; weeds clipped 8-18-11	6-3-11 6-29-11 7-30-11 9-22-11 = 5.22 t DM/a	Post-graze clipping in June (no hay) = 2.82 t DM/a
Fall Practices	None	None	8k gpa Manure 11-15-11 Disk-chisel 11-21-11	None	12k gpa Manure 11-15-11 Deep disk-chisel 11-21-11	None
Crop 2012	Alf I	Alf II	Corn	Alf I	Corn	Pasture

NATIVE PLOTS (switchgrass, high diversity and low diversity prairie; N=9)

SARE Project			GLBRC
Forage management	Grazing	Mowing	Control
Biofuel Research			
Area of Plots	-----Fenced area-----		-----Unfenced area-----
Prescribed Burn	4-13-11		4-30-11 SWG; 5-4-11 Prairies
Fertilizer	None other than manure from grazing heifers		None
Pesticides (as needed)	Switchgrass plots 5-6-11: 24 oz/a Roundup PowerMax; 2 lbs/a AMS; 6-7-11: 2,4-D and Milestone		Switchgrass plots: 6-7-11 2,4-D and Milestone
Grazing or Harvest	June 24-July 5, and Aug 11-19		None
Other Practices	Nothing	Mow post-graze	None