

2010 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2010	CORN	CORN	CORN	CORN	CORN
Rotation	CS1	CS2	CS3	CS4	CS5
Treatment #	1	2	5	8	11
Plot #'s	109, 204, 306, 412	108, 206, 310, 408	106, 202, 307, 411	113,210, 311,414	110, 208, 304, 413
Primary Tillage	Disk-chiseled 11-23-09	Strip-tilled 11-23-09	Disk-chiseled 11-23-09	Chisel w/sweeps 11-24-09	Chisel w/sweeps 11-24-09; and 5-2-10
Secondary Tillage	Field digger 4-28-10 (2x)	None	Field digger 4-28, 5-18-10	Field digger 4-28-10 (2x)	Field digger 5-6-10, 5-18-10
Planting Date	Dekalb 52-59	Dekalb 52-59	Viking 0.6710	Dekalb 52-59	Viking 0.6710
Variety	102d, Triple stk	Triple stack	98d, 5-19-10	Triple stack	5-19-10
Rate	4-29-10 34,000 seeds/a	4-29-10 34,000 seeds/a	36,000 seeds/a	4-29-10 34,000 seeds/a	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 ¹ 4-19-10 (82%/PPNT)	135 lb N/a 6-7-10 (28%/PPNT)	None	None	None
Manure	None	None	1.5 ton/a CPM 4-16-10	16,000 gal/a 11-12-09	8,000 gal/a 11-12-09
Pesticides/ Herbicides	<u>Pre-emrg:</u> 5-4 2.5 pt/a of Surpass EC <u>Post-emrg:</u> 6-17 22 oz/a Mirage+, 3 oz/a Laudis	<u>Burndown:</u> 4-18 22 oz/a of Mirage+, 8 oz/a Radar LV <u>Post-emrg:</u> 6-17 22 oz/a Mirage+, 3 oz/a Laudis	None	<u>Pre-emrg:</u> 5-4 2.5 pt/a of Surpass EC <u>Post-emrg:</u> 5-27 24 oz/a of Mirage+, 3 oz/a Laudis	None
Rotary Hoe/ Tine Weed	None	None	RH:5-27-10 RH: 6-7-10	None	RH: 5-27-10 RH: 6-7-10
Cultivation	None	None	6-17, 6-29-10	None	6-17, 6-29-10
Harvest	10-5-10 206.3 bu/a	10-5-10 214.6 bu/a	10-13-10 183.8 bu/a	10-5-10 222.5 bu/a	10-13-10 182.1 bu/a
Fall Practices	Chopped stalks 10-15-10 Disk-chisel 11-8-10	None	Chopped stalks 10-15-10 Disk-chisel 11-5-10	Chopped stalks 10-15-10 Manure 11,800 gpa 11-2-10 Disk-chisel 11-5-10	Chopped stalks 10-15-10 Manure 11,800 gpa 11-2-10 Disk-chisel 11-5-10
Crop 2011	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

1 Plot 204 got 120 lb N/a while other 3 plots got 160 lb N/a per PPNT

Soybean and Wheat Rotations			
CROP-2010 Rotation Treatment #	NR Soybean CS2 3	WR Soybean/Wheat CS3 4	Wheat/Berseem Clover CS3 6
Plot #'s	101, 214, 303, 401	104, 201, 301, 402	102, 212, 313, 407
Primary Tillage	None	Disk-chiseled 11-23-09	disk 1x 10-13-09
Secondary Tillage	None	Field digger 5-18-10	None
Planting Date	5-6-10	SB: 5-19-10 WW: 9-30-10	WW: Oct 13, 2009 CC: 8-11-10 Both with NT drill
Variety Rate	Pion. 92Y511 (RR) 225,000 seeds/a 2,500 sd/lb	Sb: Blue River 16A7 225,000 seeds/a; 3,000 sd/lb WW: untrt'd Kaskasia 140 lb/a	Untrt'd Kaskaskia: 155 lb/a; 12 lb/s berseem; 40 lb/a oats
Fertilizer	None	None	None
Pesticides/ Herbicides	<u>Burndown:</u> 4-18-10 Mirage+, <u>Post-emerg:</u> 7-2-10 Mirage+, Dual II Mag	None	None
Rotary Hoe/ Tine Weed	None	RH: 5-27-10 TW: 6-10-10, 6-17-10	TW: 4-15-10
Cultivation	None	6-29-10	None
Harvest	10-7-10 65.5 bu/a	9-28-10 61.9 bu/a	Wheat: 7-13-10; 61.7 bu/a Straw: 7-27-10; 1.11 T DM/a
Fall Practices	Manure eastern 15' 11-4-40 Strip tilled 11-8-10	Disk to flatten ridges Drill wheat	Disk 7-30-10 Quack digger 8-6-10 Field cultivator 8-11-10 Plant berseem/oats 8-11-10 Disk-chiseled 11-8-10
Crop 2011	Corn	Wheat / Red Clover	Corn

Forage rotations						
CROP-2010 Rotation Treatment #	D.S. Alfalfa CS4 7	Alfalfa I CS4 10	Alfalfa II CS4 9	Oats/Alfalfa CS5 13	Alfalfa I CS5 12	Pasture CS6 14
Plot #'s	111,209, 305,409	107,205, 309,404	105, 203, 308, 406	114, 211, 312, 403	103, 213, 314, 410	112, 207, 302, 405
Primary Tillage	Disk-chiseled 11-23-09	None	None	Disk-chiseled 11-23-09	None	None
Secondary Tillage	Field cultivator 3-24-10 (2x); Cultimulcher 3-29	None	None	Field cultivator 3-24-10 (2x); Cultimulcher 3-29	None	None
Planting Date Variety	3-30-10 Dairyland 'Hybrid2400' ¹	4/10/09 <i>SummerGold</i>	4/30/08 <i>GH 707</i>	3-30-10 untrt Pion 53H92 'Forage Plus' oat	4/13/09 <i>WL347LH alf,</i> <i>Kame oats</i>	3/19/10 Kopu II
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	3.6 lb/a
Fertilizer	None	125-250 lb/a KCl	250-500 lb/a KCl	None	600 lb/a K2SO4	60 lb N/a on 6-17-10 and on 9-15-10; KCl on 405
Manure	16,000 gal/a 11-12-09	None	None	16,000 gal/a 11-12-09	None	Grazing 6 heifers
Pesticides/ Herbicides	Herbicide <u>Post-emerge:</u> Raptor 6-5-10	Insecticide None	Insecticide None	None	None	Spot spray thistles with Milestone
	Insecticide Warrior II 7-26-10		Herbicide 10-8-10 32 oz/a Mad Dog+ and 16 oz/a Radar LV			
Harvest	6-28-10 8-5-10	5-28-10 6-30-10 7-29-10	5-28-10 6-30-10 7-29-10	<u>Oatlage:</u> 6-24-10 <u>Haylage:</u> 8-5-10	5-28-10 6-30-10 7-29-10 9-15-10	Clipping as needed. Hay harvest 112 on 6-1-10; 40 5 on 6-9-10
	2.52 T DM/a	6.07 T DM/a	6.19 T DM/a	3.39 T DM/a	5.66 T DM/a	
Fall Practices	None	None	Manure 8k gpa 11-2-10 Chisel plowed 11-5-10	None	Manure 11.8k gpa 11-2-10 Chisel plowed w/sweeps 11-8-10	None
Crop 2011	Alf I	Alf II	Corn	Alf I	Corn	Pasture

¹Plot 305 was reseeded May 6th due to residual herbicide effect from 2 yrs earlier

	Satellites			
	Old Flex-till 3-phase system			Biofuel Research
2010 Crop	Spring wheat	Spring wheat	Spring wheat	Switchgrass
Previous crop (2009)	Corn	Soybeans	Wheat/red clover	switchgrass
Plot #'s	C, D	B, F	A, E	501, 504, 508
Primary Tillage	Disk-chiseled 11-23-09	Disk-chiseled 11-23-09	fall chisel w/sweeps 11-24-09	None
Secondary Tillage	Field cultivator for seedbed prep 3-30-10			None – burn plots 4-5-10
Planting Date	3-30-10			Planted 8-17-07
ariety Rate	Spring wheat 120 lb/a			‘Forestberg’ 10 lb PLS/a
Fertilizer (See map)	70 lbs N/a (urea) on 4-23-10 North: 75-150 lb/a 0-0-60; 120 lb/a 0-46-0 at Sat F only South: 150-200 lb/a 0-0-60; 120 lb/a 0-46-0 on all 4-12-10			50 lb N/a on most of plot (34-0-0)
Pesticides (as needed)	4-28-10:1 pt/a 2, Radar LV			4-12-10: 22 oz/a Mirage Plus; 5-10-10: 1 pt/a Radar LV
Harvest & Yield	7-27-10: North 24.3 bu/a South 19.5 bu/a Straw was chopped back on ground due to heavy weed pressure			1.6 Tons DM/a
Fall Practices	Tilled field then established winter rye for Annual Forage trial on 9-22-10			None
Crop 2011	Various forage treatments			Switchgrass