2016 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2016 Rotation Treatment #	**CORN CS1 1**	**CORN CS2 2**	**CORN CS3 5**	**CORN CS4 10**	**CORN CS5 11**
Plot #'s	109, 204, 306, 412	108, 206, 310, 408	106, 202, 307, 411	107, 205, 309, 404	110, 208, 304, 413
Primary Tillage	Disk-chisel (8") Agco 4511 11/20/2015	Strip-tilled (Blujet) 11/20/2015	Disk-chisel (7") Agco 4511 4/18/2016	Disk-chisel (8") Agco 4511 11/20/2015	Disk-chisel (8") Agco 4511 11/20/2015
Secondary Tillage	Field cultiv. (1x) 5/2/2016	None	Field cultiv. (1x) 5/2/2016 (1x) 5/17/2016	Field cultiv. (1x) 5/2/2016	Field cultiv. (1x) 4/19/2016 (1x) 5/2/2016 (1x) 5/17/2016
Spring Practices	PPNT: 4/27/2016	PPNT: 4/27/2016			
Planting Date Variety Rate	5/3/2016 Pioneer PO339 AMXT, 103d 34,000 seeds/a	5/3/2016 Pioneer PO339 AMXT, 103d 34,000 seeds/a	5/20/2016 Blue River 41R00 96d 38,000 seeds/a	5/3/2016 Pioneer PO339 AMXT, 103d 34,000 seeds/a	5/20/2016 Blue River 41R00 96d 38,000 seeds/a
Starter Fertilizer	5/3/2016 100 lb/ac 5-14-42	5/3/2016 100 lb/ac 5-14-42	None	5/3/2016 100 lb/ac 5-14-42	None
Nitrogen Fertilizer	Request per ppnt: 160 lb N/ac, mis-application of 180 lb N/a as 28% UAN 6/17/2016	Request per ppnt: 160 lb N/ac, mis-application of 180 lb N/a as 28% UAN 6/17/2016	None	None	None
Fertilizer (all rates are for product NOT elemental N, P, or K)	None	Lime(70-79): 4/15/2016 310: 3.5 t/ac 408: 2.5 t/ac DAP: 4/18/2016 108: 60 lbs/ac 0-0-60: 4/18/2016 108 & 310: 60 lb/ac	0-0-50-17s: 4/18/2016 106 & 202: 80 lbs/ac	None	Lime(70-79): 4/15/2016 208: 3 t/ac
Manure	None	None	CPM (4-3-2): 4/2/2016 all plots: 1.8 ton/ac	14,000 gal/a 11/20/2016	14,000 gal/a 11/20/2016
Pesticides/ Herbicides (TBD by weed community)	Post-emrg: 6/2/2016 Durango DMA: 24 o/a Laudis: 3 o/a COC: 26 o/a 28%: 48 o/a Drift Guard: 0.2 o/a	Pre-emrg: 5/5/2016 Durango DMA: 44 o/a Dual II Magn: 32 o/a Low Vol 4: 16 o/a Post-emrg: 6/2/2016 Durango DMA: 24 o/a Laudis: 3 o/a COC: 26 o/a 28%: 48 o/a Drift Guard: 0.2 o/a	None	Post-emrg: 6/2/2016 Durango DMA: 24 o/a Laudis: 3 o/a COC: 26 o/a 28%: 48 o/a Drift Guard: 0.2 o/a	None
Rotary Hoe	None	None	6/2/2016 6/7/2016	None	6/2/2016 6/7/2016
Cultivation	None	None	'Wilrich' 6/14/2016 'Wilrich' 6/22/2016	None	'Wilrich' 6/14/2016 'Wilrich' 6/22/2016
Harvest	10-20-16 232 bu/a	10-19-16 231 bu/a	10-20-16 193 bu/a	10-20-16 246 bu/a	10-20-16 187 bu/a
Fall Practices	Chop stalks: @ harvest Disk-chisel: 8" 11/1/2016 RF:10/24/2016	RF: 10/24/2016	Chop stalks: @ harvest Disk-chisel: 8" 11/1/2016 RF: 10/24/2016	Chop stalks: Manure: 10/24/2016 14,000 gpa (Blaine Dairy) Disk-chisel: 8" 11/1/2016 RF: 10/24/2016 Deep Soils: 10/24/2016	Chop stalks: Manure: 10/23/2016 14,000 gpa (Blaine Dairy) Disk-chisel: 8" 11/1/2016 RF: 10/24/2016
Crop 2017	**Corn**	**Soybean**	**Soybean**	**D.S. Alfalfa**	**Oats/Alfalfa**

Soybean and Wheat Rotations			
CROP-2016 Rotation Treatment #	**7.5", NT Soybean CS2 3**	**30" Soybean/Wheat CS3 4**	**Wheat/Berseem Clover – oats cover crop CS3 6**
Plot #'s	101, 214, 303, 401	104, 201, 301, 402	102, 212, 313, 407
Primary Tillage	None	Disk-chisel (8") 10/20/2015	Disk-chisel (8") 9/28/2015
Secondary Tillage	None	Field cultiv. (1x) 5/2/2016 *except CERES: C5, C6, C9, C10* (1x) 5/17/2016 *except CERES: C6, C10*	Field cultiv. (1x) 9/28/2015
Planting Date	5/9/2016	SB: 5/20/2016 *except NT CERES* NT SB: 6/3/2016 *CERES only* WW: 10/14/2016	WW: 9/28/2015 CC: 8/3/2016 Both with NT drill
Variety Rate	Renk RS216NR2 225,000 seeds/a CellTech innoculant	Sb: Blue River 12A2 190,000 seeds/a CERES NT: 225,000 seeds/a WW: 'W1377' @ 170 lb/a	-American Organic 9915: 105 lb/a *low seeding rate due to planter probs.* -"frosty" berseem clover: 20.75 lbs/a -untreated "Ron" oats: 64 lbs/a -Nexsteppe Untreated Sorghum (CERES plots): 46 lbs/a
Fertilizer (all rates are for product NOT elemental N, P, or K)	Lime(70-79): 4/15/2016 214: 3 t/ac DAP: 4/18/2016 101: 100 lbs/ac 214, 303, 401: 60 lbs/ac 0-0-60: 4/18/2016 all plots: 210 lb/ac	0-0-50-17s: 4/18/2016 301: 160 lbs/ac 104, 201, 402: 230 lbs/ac	CPM 3/29/2016: 1 ton/ac all plots 0-0-50-17s: 4/18/2016 102: 80 lbs/ac 212, 313: 160 lbs/ac
Pesticides/ Herbicides (TBD)	Pre-emrg: 5/5/2016 Durango DMA: 44 o/a Dual II Magn: 32 o/a Low Vol 4: 16 o/a Post-emrg: 6/2/2016 Basagran: 16 o/a Durango DMA: 32 o/a Post-emrg: 7/5/2016 Durango DMA: 32 o/a	None	None
Rotary Hoe/ Tine Weed		RH: 6/2/2016 RH: 6/3/2016 TW: 6/7/2016	None
Cultivation		'Wilrich' 6/14/2016 'Wilrich' 6/22/2016	None
Harvest	10-21-16 55 bu/a	10-10-16 39 bu/a	Wheat: 7/20/2016, 89 bu/a Straw: 7/27/2016, 1.4 ton/ac
Fall Practices	RF: 10/24/2016 Strip till: 6" deep 11/7/2016	Chisel Plow:10/11/2016 Field Cultiv.: 10/13/2016 Plant Wheat: 10/14/2016 Kennell Seed Farm KS 9915A @ 170 lbs/ac RF: 10/24/2016	Disk-chisel: 8/1/2016 Field cultiv.: 8/2/2016 Plant berseem/oats 8/3/2016 RF: 10/24/2016
Crop 2017	**Corn**	**Wheat / Clover**	**Corn**

Forage rotations						
CROP-2016 Rotation Treatment #	**D.S. Alfalfa CS4 9**	**Alfalfa I CS4 8**	**Alfalfa II CS4 7**	**Oats/Alfalfa CS5 13**	**Alfalfa I CS5 12**	**Pasture CS6 14**
Plot #'s	105, 203, 308, 406	113, 210, 311, 414	111, 209, 305, 409	114, 211, 312, 403	103, 213, 314, 410	112, 207, 302, 405
Primary Tillage	Disk-chisel (8") 11/20/2015	None	None	Disk-chisel (8") 11/20/2015	None	**Steers on:** 5/4/2016 st183: 558 lbs st158: 553 lbs st292: 743 lbs st293: 705 lbs st287: 524 lbs, 5/24/2016 **Steers off:** 10/10/2016 st183: 786 lbs st158: 748 lbs st292: 903 lbs st293: 862 lbs st287: 613 lbs
Secondary Tillage	Field cultivator (1x) 4/14/2016 308&406: (2x) (1x) 5/23/2016	None	None	Field cultivator (1x) 4/14/2016 312: (2x) (1x) 5/23/2016	None	
Planting Date Variety	4/15/2016 DS Hybridforce 3400 *replant:* 5/23/2016 DS Hybridforce 3400	*4/6/2015* *Dairyland 'Hybrid3400'*	*4/23/2014* *Pioneer 55Q27*	4/15/2016 Blue Jay 3HR & 'Forage Plus' oats *replant:* 5/23/2016 Appaloosa & 'Forage Plus'	4/4/2015 Blue Jay 3HR & 'Forage Plus' oats	3/18/2016 Lacrosse Forage 'Grassmaster' 3/18/2016 Medium red clover 207, 302, 405
Rate	12 lb PLS/a *replant:* 18 lb PLS/a	15 lb/a	13 lb/a	Alf 12 lb PLS/a Oats: 40 lb/a *replant:* Alfalfa: 17.5 Oats: 46 lb/ac	Alf : 16.5 lb/a Oats: 60 lb/a	Grass: 16 lb/ac Clover: 5.3 lb/ac
Fertilizer (all rates are for product NOT elemental N, P, or K)	Lime(70-79): 4/15/2016 308: 12 t/ac 406: 3 t/ac	0-0-60: 5/23/2016 all plots: 325 lb/ac 0-0-60: 7/25/2016 all plots: 325 lb/ac	0-0-60: 5/23/2016 all plots: 280 lb/ac 0-0-60: 7/25/2016 all plots: 280 lb/ac	Lime(70-79): 4/15/2016 312: 12 t/ac	Lime(70-79): 4/15/2016 314: 12 t/ac 0-0-50-17s: 5/23/2016 all plots: 280 lb/ac 0-0-50-17s: 7/25/2016 all plots: 280 lb/ac 0-0-50-17s: 9/2/2016 all plots: 280 lb/ac	ESN: 4/21/2016 all plots: 70 lbs/ac ESN: 6/9/2016 112, 302: 70 lbs/ac ESN: 6/30/2016 405: 70 lbs/ac ESN: 7/12/2016 207: 70 lbs/ac Lime(70-79): 4/15/2016 405: 2 t/ac DAP: 4/18/2016 112: 60 lb/ac 0-0-60: 4/18/2016 112, 207: 210 lb/ac
Manure	14,000 gpa 11/20/2015	None	None	14,000 gpa 11/20/2015	None	Grazing 5 heifers
Pesticides/ Herbicides (Per scout report)	Post-emrg: 6/21/2016 Raptor: 5 o/a NIS 28%: 64 o/a Post-emrg: 9/12/2016 Raptor: 6 o/a COC: 50 o/a 28%: 64 o/a FS Tran+: 8 o/a	None	Burndown: 9/20/2016 Durango DMA: 28o/a Low Vol 4: 16 o/a Drift guard: 6 o/a clarifier: 24 o/a	None	None	None
Harvest	**Cut:** 1st: 7/20/2016 2nd: 8/31/2016 **Chopped:** 1st: 7/21/2016 2nd: 9/1/2016 3.29 t DM/a	**Cut:** 1st: 5/18/2016 2nd: 6/16/2016 3rd: 7/20/2016 4th: 8/31/2016 **Chopped:** 1st: 5/20/2016 2nd: 6/17/2016 3rd: 7/21/2016 4th: 9/1/2016 5.76 t DM/a	**Cut:** 1st: 5/18/2016 2nd: 6/16/2016 3rd: 7/20/2016 4th: 8/31/2016 **Chopped:** 1st: 5/20/2016 2nd: 6/17/2016 3rd: 7/21/2016 4th: 9/1/2016 5.14 t DM/a	**Cut:** 1st: 7/14/2016 2nd: 8/31/2016 **Chopped:** 1st: 7/16/2016 2nd: 9/1/2016 3.72 t DM/a	**Cut:** 1st: 5/18/2016 2nd: 6/16/2016 3rd: 7/20/2016 4th: 8/31/2016 **Chopped:** 1st: 5/20/2016 2nd: 6/17/2016 3rd: 7/21/2016 4th: 9/1/2016 5.82 t DM/a	**Dry Hay:** 5/20/2016 207, 405 **Chopped plots:** 112: 6/6/2016 1.2 tons/ac 302: 6/9/2016 **Clipped plots** 405: 6/30/2016 207: 7/11/2016 **Exclosure harvest:** 112, 302: 5/20/2016 all plots: 6/22/2016 all plots: 7/26/2016 all plots: 9/2/2016 3.99 t DM/a
Fall Practices	RF: 10/24/2016	RF: 10/24/2016	RF: 10/4/2016 Manure: 10/06/2016 7,105 gpa (Blaine Dairy) Disk-chisel:10/09/2016	RF: 10/24/2016	RF: 10/4/2016 Manure: 10/06/2016 7,105 gpa (Blaine Dairy) Disk-chisel:10/09/2016	RF: 10/24/2016
Crop 2017	**Alf I**	**Alf II**	**Corn**	**Alf I**	**Corn**	**Pasture**

NATIVE PLOTS			
Treatments	**Switchgrass:** 501, 504, 508 **High diversity prairie:** 502, 506, 509 **Low diversity prairie:** 503, 505, 507		
Forage management	**Grazing**	**Control**	**Biofuel Research**
Area of Plots	fenced North	unfenced middle	unfenced south
Prescribed Burn	4/13/2016 all plots	4/13/2016 all plots	None
Fertilizer	None other than manure from grazing heifers	None	ESN: 6/2/2016 50 lb N/a on main plot
Pesticides ***(as needed)***	None	None	Switchgrass: May 2016 Stinger: 0.5 pt/a Low Vol 4: 1pt/a
Grazing or Harvest	Block 1 (501, 502, 503): 6/9-6/16/2016 Block 2 (504, 505, 506): 6/24-6/30/2016	None	Harvest: 11/18/2016
Other Practices	None	None	RF: 10/4/2016

Note: Lime (70-79 NI) cost $5/ton in 2016