

2017 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2017 Rotation Treatment #	CORN CS1 T1	CORN CS2 T3	CORN CS3 T6	CORN CS4 T7	CORN CS5 T12
Plot #'s	109, 204, 306, 412	101, 214, 303, 401	102, 212, 313, 407	111, 209, 305, 409	103, 213, 314, 410
Primary Tillage	Disk-chisel (8") Agco 4511 11/1/2016	Strip-tilled (Blu-jet) 11/7/2016	Sunflower Disk-chisel JD tractor 4/24/2017	Disk-chisel (8") Agco 4511 10/9/2016	Disk-chisel (8") Agco 4511 10/9/2016
Secondary Tillage	Field cultiv. (1x) 5/5/2017	None	Quack digger (3-4") (JD 980) (1x) 5/12/17 (1x) 5/15/17 Field cultiv. (1x) 5/22/2017 313 - 6/7/2017 (1x) Culti-packer 313 - 6/8/2017	Field cultiv. (1x) 5/5/2017	Quack digger (3-4") (JD 980) (1x) 4/25/17 (1x) 5/12/17 (1x) 5/15/17 Field cultiv. (1x) 5/22/2017
Spring Practices	PPNT: not taken 2017	PPNT: not taken 2017			
Planting Date Variety Rate	5/5/2017 Pioneer P0339 AMXT, 103d 34,000 seeds/a	5/5/2017 Pioneer P0339 AMXT, 103d 34,000 seeds/a 6/6/17 Plots 214, 303, 401 heavily damaged by ground squirrels, Jab planted to fill gaps	5/22/2017 Blue River 38G54 36,000 seeds/ac Replant: 6/8/2017 (Plot 313) Albert Lea Viking O.58-85P (85 RM) 36,000 sds/ac	5/5/2017 Pioneer P0339 AMXT, 103d 34,000 seeds/a	5/22/2017 Blue River 38G54 36,000 seeds/a
Starter Fertilizer	5/5/2017 100 lb/ac 5-14-42	5/5/2017 100 lb/ac 5-14-42	None	5/5/2017 100 lb/ac 5-14-42	None
Nitrogen Fertilizer	All plots: 160 lb N/ac 32% UAN 6/16/2017	Rep 1: 90 lbs N/ac Reps 2-4: 105 lbs/ac 32% UAN 6/16/2017	None	None	None
Fertilizer	None	18-46-0: 4/12/2017 101: 60 lbs DAP/ac 214, 303, 401: 135 lbs DAP/ac 0-0-60: 4/17/2017 101: 80 lb KCL/ac 214, 303, 401: 60 lb KCL/ac	0-0-50 K sulfate: 4/25/2017 102 & 313: 60 lbs/ac	None	
Manure	None	None	CPM (4-3-2): 4/25/2017 all plots: 1.5 ton/ac	Manure: 10/06/2016 7,105 gpa (Blaine Dairy)	Manure: 10/06/2016 7,105 gpa (Blaine Dairy)
Pesticides/ Herbicides (TBD by weed community)	Pre-emrg: 5/11/2017 Medal II EC: 32 o/a FS Transform plus: 6 o/a Post-emrg (306): 5/25/2017 Liberty 280 SL 22 o/a Laudis 3 o/a AMS 3 lb/a Post-emrg (306): 6/15/2017 Durango DMA 32 oz/ac Post-emrg (109, 204, 412): 6/15/2017 Durango DMA (32 oz/ac) + Laudis (3 oz/ac) + AMS (1.75 lb/ac) + Affect GC (0.2 oz/ac)	Pre-emrg: 5/8/2017 Durango DMA: 22 o/a Medal II EC: 32 o/a Explorer: 6.5 o/a FS Transform plus: 6 o/a Post-emrg (109, 204, 412): 6/15/2017 Durango DMA (32 oz/ac) + Laudis (3 oz/ac) + AMS (1.75 lb/ac) + Affect GC (0.2 oz/ac)	None	Pre-emrg: 5/11/2017 Medal II EC: 32 o/a FS Transform plus: 6 o/a Post-emrg (109, 204, 412): 6/15/2017 Durango DMA (32 oz/ac) + Laudis (3 oz/ac) + AMS (1.75 lb/ac) + Affect GC (0.2 oz/ac)	None
Rotary Hoe	None	None	Tine Weed: 5/26/2017 (pre-emerge) Rotary Hoe: 5/30/2017 (pre-emerge) 6/2/2017 6/8/2017 Plot 313 (post-replant): 6/16/17	None	Tine Weed: 5/26/2017 (pre) Rotary Hoe: 5/30/2017 (pre) 6/2/2017 6/8/2017
Cultivation	None	None	'Wilrich' 6/14/2017 'Wilrich' 6/21/2017 'Wilrich' 6/27/2017 'Yetter' 7/5/2017 (exclude 313) 'Yetter' 7/11/2017 (313 only)	None	'Wilrich' 6/14/2017 'Wilrich' 6/21/2017 'Wilrich' 6/27/2017 'Yetter' 7/5/2017
Harvest	10/27/2017 232 bu/a	10/27/2017 229 bu/a	10/27/2017 193 bu/a	9/18/2017 East Micro silage 11.7 t DM/a 10/27/2017 grain 251 bu/a	9/18/2017 East Micro silage 9.1 t DM/a 10/27/2017 grain 205 bu/a
Fall Practices	Chop stalks: @ harvest Balser stalk chopper (micros): 11/3/17 Disk-chisel: 8" 11/17/2017 RF: 10/30/2017	RF: 10/30/2017	Chop stalks: @ harvest Balser stalk chopper (micros): 11/3/17 Disk-chisel: 8" 11/17/2017 RF: 10/30/2017	Chop stalks: @ harvest Balser stalk chopper (micros): 11/3/17 Manure: 11/14/2017 14,000 gpa injected (Blaine Dairy) Disk-chisel: 8" 11/17/2017 RF: 10/30/2017	Chop stalks: @ harvest Balser stalk chopper (micros): 11/3/17 Manure: 11/14/2017 14,000 gpa injected (Blaine Dairy) Disk-chisel: 8" 11/17/2017 RF: 10/30/2017
Crop 2018	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

Soybean and Wheat Rotations			
CROP-2017 Rotation Treatment #	7.5", NT Soybean CS2 T2	30" Soybean/Wheat CS3 T5	Wheat/Berseem Clover – oats cover crop CS3 T4
Plot #'s	108, 206, 310, 408	106, 202, 307, 411	104, 201, 301, 402
Primary Tillage	None	Disk-chisel: 8" 11/1/2016	Disk-chisel (8") 10/11/2016
Secondary Tillage	None	Quack digger (3-4") (JD 980) (1x) 4/25/17 (1x) 5/12/17 (1x) 5/15/17 Field cultiv.: (1x) 5/22/2017	Field cultiv. (1x) 10/13/2016
Planting Date	5/12/2017	Sb: 5/22/2017 WW: 9/29/2017	WW: 10/14/2016 CC: 8/14/2017 Both with NT drill
Variety Rate	Renk RS213NR2 225,000 seeds/a CellTech inoculant	Sb: Blue River 12A2 190,000 seeds/a WW: Albert Lee "Emerson" 1.75M seeds/ac	-Welter Seed "Frosty" Berseem Clover (with Nitro Coat): ~25 lbs/a -Welter Seed untreated "Deon" oats: ~67 lbs/a
Fertilizer	0-46-0: 4/12/2017 108: 110 lbs TSP/ac 310: 57 lbs TSP/ac 0-0-60: 4/17/2017 108: 195 lb KCl/ac 310, 408: 145 lb KCl/ac	0-0-50 K sulfate: 4/25/2017 307: 60 lbs/ac 106, 202, 411: 170 lbs/ac	CPM 4/12/2017: 0.6 ton/ac all plots 0-0-50 K sulfate: 4/25/2017 104: 120 lbs/ac 301, 402: 200 lbs/ac
Pesticides/ Herbicides (TBD)	Burndown: 5/4/2017 Liberty 280 SL 36 oz/ac Post-emrg: 6/9/2017 Raptor 5oz/ac + COC 32 oz/ac + 28% 64 oz/ac	None	None
Rotary Hoe/ Tine Weed		Tine Weed: 5/26/2017 (pre) Rotary Hoe: 5/30/2017 (pre) 6/2/2017 6/5/2017 6/8/2017	None
Cultivation		'Wilrich' 6/15/2017 'Wilrich' 6/21/2017 'Wilrich' 6/27/2017 'Yetter' 7/7/2017	None
Harvest	9/28/2017 54 bu/a	9/28/2017 59 bu/a	Wheat: 7/31/2017, 70 bu/a Straw: 8/1/2017, 1.07 ton/ac
Fall Practices	RF: 10/30/2017 Strip till: 6" deep 11/29/2017	Chisel Plow: 9/29/2017 Field Cultiv.: 9/29/2017 Plant Wheat: 9/29/2017 Albert Lee Emerson Winter Wheat @ 1.75M seeds/ac RF: 10/30/2017	Turbo till (Case IH 335VT): 8/2/2017 402: 2x passes to get height set (6") Quack Digger: 8/7/2017 Quack Digger: 8/11/2017 Field Cultivation: 8/14/2017 Cultipak: 8/14/2017 Plant berseem/oats: 8/14/2017 Undercutting: 8/2/2017 Undercutting: 10/25/17 RF: 10/30/2017
Crop 2018	Corn	Wheat / Clover	Corn

Forage rotations						
CROP-2017 Rotation Treatment #	D.S. Alfalfa CS4 T10	Alfalfa I CS4 T9	Alfalfa II CS4 T8	Oats/Alfalfa CS5 T11	Alfalfa I CS5 T13	Pasture CS6 T14
Plot #'s	107, 205, 309, 404	105, 203, 308, 406	113, 210, 311, 414	110, 208, 304, 413	114, 211, 312, 403	112, 207, 302, 405
Primary Tillage	Disk-chisel: 8" 11/1/2016	None	None	Disk-chisel: 8" 11/1/2016	None	Heifers on: 5/10/2017 8706: 376 lbs 8709: 396 lbs 8711: 408 lbs 8716: 424 lbs 8722: 416 lbs 8728: 378 lbs Heifers off: 10/7/17 8706: 684 lbs 8709: 680 lbs 8711: 744 lbs 8716: 714 lbs 8722: 736 lbs 8728: 678 lbs
Secondary Tillage	Sunflower field cultivator (1x) 4/19/2017 Brillion cultipacker (1x with 1" tine depth) 4/19/2017	None	None	Field cultivator (Case 200) (1x) 4/24/2017 Brillion cultipacker (1x) NO tines (4/25/17)	None	
Planting Date Variety	4/19/2017 DS Hybridforce 3430 Lot# 17009ANG AMS-5061	4/15/2016 DS Hybridforce 3400 replant: 5/23/2016 DS Hybridforce 3400	4/6/2015 Dairyland 'Hybrid3400'	4/25/2017 Blue River Blue Jay 4HR (Conventional alfalfa seed sourced because no organic available, Mike has official paperwork) Lot: 2VBJDD2C & Welter Seed 'Deon' oats Lot: 61	4/15/2016 Blue Jay 3HR & 'Forage Plus' oats replant: 5/23/2016 Appaloosa & 'Forage Plus'	None
Rate	15 lbs/ac	12 lb PLS/a replant: 18 lb PLS/a	15 lb/a	Alf ~22 lbs/a Oats: ~35 lb/a	Alf 12 lb PLS/a Oats: 40 lb/a replant: Alfalfa: 17.5 Oats: 46 lb/ac	None
Fertilizer	0-0-60: 4/17/2017 107, 404: 60 lb KCl/ac	0-0-60: 5/30/2017 All plots 300 lbs/ac 0-0-60: 7/27/2017 Reps 2 and 3: 300 lbs/ac	0-0-60: 5/30/2017 all plots: 250 lbs/ac 0-0-60: 7/27/2017 Reps 2, 3, and 4: 250 lbs/ac		0-0-50-17s: 5/30/2017 all plots: 300 lb/ac 0-0-50-17s: 7/27/2017 Reps 1, 3, and 4: 300 lb/ac	0-0-60: 4/17/2017 all plots: 280 lb KCl/ac 44-0-0 (ESN): 6/13/2017 all plots: 62 lbs N/ac
Manure	14,000 gpa 11/20/2016	None	None	14,000 gpa 11/20/2016	None	Grazing 6 heifers
Pesticides/ Herbicides (Per scout report)	Post-emrg: 6/9/2017 Raptor 5oz/ac + COC 32 oz/ac + 28% 64 oz/ac PLH spray: 7/10/2017 Warrior 2oz/ac	PLH spray: 7/10/2017 Warrior 2oz/ac	PLH spray: 7/10/2017 Warrior 2oz/ac Burn-down: 10/4/2017 Mad Dog 5.4 32 oz/ac Low Vol 4 (2, 4-D) 16 oz/ac	None	None	405: Spot spray thistle with Milestone 7/6/2017 112 & 207: Spot spray thistle with Milestone 7/17/17 207: spot spray thistle 7/24/17 405: spot spray mad dog 8/15/17 112: milestone spot spray 8/18/17 207 & 302: spot spray 9/5/17
Harvest	Cut: 1 st : 6/26/2017 2 nd : 7/25/2017 3 rd : 8/28/2017 Chopped: 1 st : 6/27/2017 2 nd : 7/26/2017 3 rd : 8/29/2017 2.45 t DM/a	Cut: 1 st : 5/25/2017 2 nd : 6/26/2017 3 rd : 7/25/2017 4 th : 8/28/2017 Chopped: 1 st : 5/27/2017 2 nd : 6/27/2017 3 rd : 7/26/2017 4 th : 8/29/2017 5.34 t DM/a	Cut: 1 st : 5/25/2017 2 nd : 6/26/2017 3 rd : 7/25/2017 4 th : 8/28/2017 Chopped: 1 st : 5/27/2017 2 nd : 6/27/2017 3 rd : 7/26/2017 4 th : 8/29/2017 5.1 t DM/a	Cut: 1 st : 6/26/2017 2 nd : 7/25/2017 3 rd : 8/28/2017 Chopped/Baled: 1 st : 6/27/2017 2 nd : 7/26/2017 3 rd : 8/29/2017 3.68 t DM/a	Cut: 1 st : 5/25/2017 2 nd : 6/26/2017 3 rd : 7/25/2017 4 th : 8/28/2017 Chopped: 1 st : 5/27/2017 2 nd : 6/27/2017 3 rd : 7/26/2017 4 th : 8/29/2017 4.54 t DM/a	Haybine: 207: 5/4/2017 Tedded: 207: 5x from 5/5 to 5/8/2017 Raked: 207: 5/8/2017 Baled: 207: 5/8/2017 Green Chop: 405: 5/15/2017 Enclosure harvest: 112, 302: 6/1/2017 all plots: 6/27/2017 all plots: 7/25/2017 all plots: 9/1/2017 4.48 t DM/a
Fall Practices	RF: 10/30/2017	RF: 10/30/2017	Manure: 10/19/2017 7,000 gpa injected (Blaine Dairy) Undercutting: 10/3/2017 RF: 10/17/2017 Disk-chisel: 11/3/2017	RF: 10/30/2017	Manure: 10/19/2017 7,000 gpa injected (Blaine Dairy) Undercutting: 10/17/17 RF: 10/17/2017 Disk-chisel: 11/3/2017	RF: 10/30/2017
Crop 2018	Alf I	Alf II	Corn	Alf I	Corn	Pasture

NATIVE PLOTS			
Treatments Switchgrass (sg): 501, 504, 508 High diversity prairie (hdp): 502, 506, 509 Low diversity prairie (ldp): 503, 505, 507			
Forage management	Grazing	Control	Biofuel Research
Area of Plots	fenced North	unfenced middle	unfenced south
Prescribed Burn	None	None	None
Fertilizer	None other than manure from grazing heifers	None	ESN: 5/31/2017 sg & ldp: 50 lb N/a on main plot hdp: 50 lb N/a on micro plot
Pesticides (as needed)	None	None	Spot spray with Milestone: plot 501 7/17/17
Grazing or Harvest	Block 1 (501, 502, 503): 6/9/2017-6/13/2017 Block 2 (504, 505, 506): 6/19/2017-6/26/2017 Block 3 (507, 508, 509): 6/14/2017-6/18/2017	None	Harvest: 11/28/2017
Other Practices	None	None	RF: 10/30/2017