

2023 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2023 Rotation Treatment #	CORN CS1 T1	CORN CS2 T3	CORN CS3 T6	CORN CS4 T9	CORN CS5 T12
Plot #'s	109, 204, 306, 412	101, 214, 303, 401	102, 212, 313, 407	105, 203, 308, 406	103, 213, 314, 410
Primary Tillage	11/20/2022 Chisel (1x)	10/20/2022 Strip-till	11/20/2022 Chisel (1x)	11/20/2022 Chisel (1x)	10/20/2022 Chisel (2x) 11/20/2022 Chisel (1x)
Secondary Tillage	Field cultivate: 5/7/2023 (2x)	None	Field cultivate: 5/21/2023 (2x)	Field cultivate: 5/7/2023 (2x)	Field cultivate : 4/28/2023 (1x) 5/21/2023 (2x)
Planting Date Variety Rate	5/11/2023 DKC55-53RIB 36,000 sds/ac	5/11/2023 DKC55-53RIB 36,000 sds/ac	5/23/2023 Blue River 52-96P 38,000 sds/ac	5/11/2023 DKC55-53RIB 36,000 sds/ac	5/23/2023 Blue River 52-96P 38,000 sds/ac
Starter Fertilizer	5/11/2023 9-11-30 100 lbs/ac	5/11/2023 9-11-30 100 lbs/ac	None	5/11/2023 9-11-30 100 lbs/ac	None
Nitrogen Fertilizer	6/13/2023 160 lbs N/ac as 32% UAN	6/13/2023 115 lbs N/ac as 32% UAN	None	None	None
Other Fertilizer (P, K, S, Lime)	4/13/2023 Lime (80-89) Plot 204: 1.5 ton/ac	4/13/2023 Lime (80-89) Plot 303: 1.5 ton/ac 4/28/2023 0-0-62 Plots 101&401: 100 lbs/ac	4/12/2023 CPM 1.5 ton/ac	4/13/2023 0-46-0 Plot 105: 95 lbs/ac 4/13/2023 Lime (80-89) Plot 203: 1.5 ton/ac	None
Manure	None	None	None	11/3/2022 7000 gpa Manure (Blaine Dairy) Injected	11/3/2022 7000 gpa Manure (Blaine Dairy) Injected
Pesticides/ Herbicides (TBD by weed community)	5/11/23: 3.2 lbs Aztec 4.67 G /ac 5/12/2023 Strelus II at 24 oz/ac, Buccaneer 5 extra at 36 oz/ac, Cavallo 4SC at 6 oz/ac, AMS at 2 lbs/ac, Compadre at 4 oz/ac 6/2/2023 Buccaneer 5 extra 36 oz/ac, AMS 2 lbs/ac, Compadre 4 oz/ac	5/12/2023 Strelus II at 24 oz/ac, Buccaneer 5 extra at 36 oz/ac, Cavallo 4SC at 6 oz/ac, AMS at 2 lbs/ac, Compadre at 4 oz/ac 6/2/2023 Buccaneer 5 extra 36 oz/ac, AMS 2 lbs/ac, Compadre 4 oz/ac	None	5/12/2023 Strelus II at 24 oz/ac, Buccaneer 5 extra at 36 oz/ac, Cavallo 4SC at 6 oz/ac, AMS at 2 lbs/ac, Compadre at 4 oz/ac 6/2/2023 Buccaneer 5 extra 36 oz/ac, AMS 2 lbs/ac, Compadre 4 oz/ac	None
Rotary Hoe/ Tine Weed	None	None	Rotary Hoe: 5/29/2023 (2x) 6/4/2023 (1x)	None	Rotary Hoe: 5/29/2023 (2x) 6/4/2023 (1x)
Cultivation	None	None	Row Cultivate: 6/16/2023 (1x) 6/27/2023 (1x) Ridge hill: 6/29/2023 (1x)	None	Row Cultivate: 6/16/2023 (1x) 6/27/2023 (1x) Ridge hill: 6/29/2023 (1x)
Harvest	10/30/2023 Combined grain 229 bu/ac	10/30/2023 Combined grain 235 bu/ac	10/30/2023 Combined grain 225 bu/ac	9/14/2023 Chopped silage 9.5 t DM/ac 10/30/2023 Combined grain 267 bu/ac	9/14/2023 Chopped silage 9.5 t DM/ac 10/30/2023 Combined grain 238 bu/ac
Fall Practices	11/2/2023 Stalk chop 11/7/2023 Plot 204 Chisel (1x) 11/13/2023 Plots 109, 306, & 412: Chisel (1x)	None	11/2/2023 Stalk chop 11/7/2023 Plot 212 Chisel (1x) 11/13/2023 Plots 102, 313, & 407: Chisel (1x)	11/2/2023 Stalk chop 11/6/2023 10,000 gpa manure (Blaine Dairy) broadcast 11/7/2023 Chisel (1x)	11/2/2023 Stalk chop 11/6/2023 10,000 gpa manure (Blaine Dairy) broadcast 11/7/2023 Chisel (1x)
Crop 2024	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

Soybean and Wheat Rotations			
CROP-2023 Rotation Treatment #	15", 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	11/20/2022 Chisel (1x)	10/3/2022 Chisel (2x) 8/1/2023 Chisel (2x)
Secondary Tillage	None	Field cultivate: 5/21/2023 (2x)	Field cultivate: 10/3/2022 (2x) 8/1/2023 (2x) Cultipack: 10/4/2022 (1x)
Spring Practices	5/16/2023 Cultipack (1x)	None	None
Planting Date	5/16/2023	5/24/2023 Soybeans 10/3/2023 Winter Wheat	10/4/2022 Winter wheat 8/1/2023 Berseem clover & Oats
Variety Rate	AG21XFO 168 lbs/ac	SB: Viking O.0821N 205,000 sds/ac WW: Albert Lea "Erisman" 167 lbs/ac	WW: Albert Lea "Erisman" 163 lbs/ac BC: VNS 18 lbs/ac O: Laker Oats 72 lbs/ac
Fertilizer	4/28/2023 0-0-62 Plot 108: 185 lbs/ac Plot 206: 137 lbs/ac Plots 310&408: 80 lbs/ac	4/12/2023 0-0-50 Plots 106 & 202: 245 lbs/ac Plot 307: 145 lbs/ac Plot 411: 200 lbs/ac	4/12/2023 0-0-50 Plot 104: 145 lbs/ac Plots 301 & 402: 200 lbs/ac 4/12/2023 CPM 1 ton/ac
Pesticides/ Herbicides	5/17/2023 Strelus II 32 oz/ac, Buccaneer 5 extra at 36 oz/ac, AMS 2 lbs/ac, Compadre 4oz/ac 6/16/2023 Buccaneer 5 extra 36 oz/ac, AMS 2 lbs/ac, Compadre 4 oz/ac	None	None
Rotary Hoe/ Tine Weed	None	Tine weed: none Rotary Hoe: 5/29/2023 (2x) 6/4/2023 (1x) 6/8/2023 (2x)	None
Cultivation	None	Row Cultivate: 6/16/2023 (1x) 6/27/2023 (1x) Ridge hill: 7/10/2023	None
Harvest	10/3/2023 plot 206 10/10/2023 plots 108, 310, & 408 55 bu/ac	10/3/2023 62 bu/ac	Combine grain: 7/25/2023 85 bu/ac Bale straw: 7/31/2023 1.6 t DM/ac
Fall Practices	11/13/2023 strip-till	10/3/2023 Field cultivate (3x) 10/3/2023 drill winter wheat	11/13/2023 Chisel (1x)
Crop 2024	Corn	Wheat/Clover	Corn

Forage rotations						
CROP-2023 Rotation Treatment #	D.S. Alfalfa CS4 T8	Alfalfa I CS4 T7	Alfalfa II CS4 T10	Oats/Alfalfa CS5 T11	Alfalfa I CS5 T13	Pasture CS6 T14
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	11/20/2022 Chisel (1x) 4/26/2023 Chisel (2x)	None	None	11/20/2022 Chisel (1x) 4/26/2023 Chisel (2x)	None	None
Secondary Tillage	Field Cultivate: 4/27/2023 (2x) Cultipack: 4/27/2023 pre-plant 4/27/2023 post-plant	None	None	Field Cultivate: 4/27/2023 (2x) Cultipack: 4/27/2023 pre-plant 4/27/2023 post-plant	None	None
Planting Date Variety	4/27/2023 Pioneer "54HVX43"	5/8/2022 DKA40-21 HVXRR Alfalfa	4/26/2021 DKA40-21HVXRR	4/27/2023 Alfalfa: Blue River "Finch" Oats: Albert Lea "Laker"	5/8/2022 Alfalfa: Blue River "Finch" 4/27/2023 Drilled Husar Orchardgrass into patches with winterkill	3/20/2023 Frost seeded Red Clover (VNS) & Husar Orchardgrass
Rate	20 lbs/ac	16 lbs/ac	16 lbs/ac	Alfalfa: 22.5 lbs/ac Oats: 50 lbs/ac	Alfalfa: 18 lbs/ac Orchardgrass: spot seed	RC: 8 lbs/ac Orchardgrass: 4 lbs/ac
Fertilizer	4/24/2023 0-0-62 Plots 113, 210, & 311: 185 lbs/ac Plot 414: 100 lbs/ac	4/13/2023 0-46-0 Plot 111: 95 lbs/ac 5/31/2023 Hay mix* at 350 lbs/ac 6/30/2023 0-0-60 Plot 409: 220 lbs/ac Plots 111 & 209: 210 lbs/ac Plot 305: 175 lbs/ac 8/1/2023 0-0-60 Plot 409: 224 lbs/ac Plots 111 & 209: 210 lbs/ac Plot 305: 167 lbs/ac	4/13/2023 0-46-0 Plot 107: 185 lbs/ac Plot 404: 95 lbs/ac 5/31/2023 Hay mix* at 350 lbs/ac 6/30/2023 0-0-60 Plots 107 & 404: 220 lbs/ac Plots 205 & 309: 210 lbs/ac 8/1/2023 0-0-60 Plots 107 & 404: 224 lbs/ac Plots 205 & 309: 210 lbs/ac	4/12/2023 0-0-50 96 lbs/ac	6/1/2023 0-0-50 275 lbs/ac 6/29/2023 0-0-50 275 lbs/ac 8/1/2023 0-0-50 269 lbs/ac	4/13/2023 Lime (80- 89) Plots 302&405: 1.5 ton/ac 4/24/2023 0-0-62 Plots 207, 302, & 405: 100 lbs/ac
Manure	11/10/2022 10,000 gpa Manure (Blaine Dairy) Injected	None	None	11/10/2022 10,000 gpa Manure (Blaine Dairy) Injected	None	None
Pesticides/ Herbicides (Per scout report)	5/26/2023 Buccaneer extra 48 oz/ac, AMS 2 lbs/ac, Compadre 4 oz/ac	None	10/11/2023 Buccaneer 5 extra 40 oz/ac, Dicamba 8 oz/ac, 2,4-D LV6 20 oz/ac, AMS 2 lbs/ac, Compadre 4 oz/ac	None	None	Spot spray Milestone ~7oz/ac and Spread 90/100 6.4 oz/20 gallons 112: 10/10/2023 207: 6/7/2023, 10/17/2023 302: 10/17/2023 405:10/16/2023
Harvest	Cut: 1 st : 6/27/2023 2 nd : 7/31/2023 3 rd : 8/28/2023 Merged & Chopped: 1 st : 6/29/2023 2 nd : 8/1/2023 3 rd : 8/30/2023 3.1 t DM/ac	Cut: 1 st : 5/30/2023 2 nd : 6/27/2023 3 rd : 7/31/2023 4 th : 8/28/2023 Merged & Chopped: 1 st : 5/31/2023 2 nd : 6/29/2023 3 rd : 8/1/2023 4 th : 8/30/2023 6.4 t DM/ac	Cut: 1 st : 5/30/2023 2 nd : 6/27/2023 3 rd : 7/31/2023 4 th : 8/28/2023 Merged & Chopped: 1 st : 5/31/2023 2 nd : 6/29/2023 3 rd : 8/1/2023 4 th : 8/30/2023 5.2 t DM/ac	Cut: 1 st : 6/19/2023 2 nd : 7/31/2023 3 rd : 8/28/2023 Baled: 1 st : 6/20/2023 Merged & Chopped 2 nd : 8/1/2023 3 rd : 8/30/2023 3.8 t DM/ac	Cut: 1 st : 5/30/2023 2 nd : 6/27/2023 3 rd : 7/31/2023 4 th : 8/28/2023 Merged & Chopped: 1 st : 5/31/2023 2 nd : 6/29/2023 3 rd : 8/1/2023 4 th : 8/30/2023 5.3 t DM/ac	None 2.6 t DM/ac
Fall Practices	None	None	10/19/2023 7000 gpa Manure (Blaine Dairy) Injected 11/7/2023 Chisel (1x)	None	10/19/2023 7000 gpa Manure (Blaine Dairy) Injected 10/24/2023 Disk- chisel (1x) 11/7/2023 Chisel (1x)	None
Crop 2024	Alfalfa I	Alfalfa II	Corn	Alfalfa I	Corn	Pasture

*Hay mix=0-0-43-5S-6Ca

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	11/1/2022	11/1/2022	Never
Fertilizer	None	None	6/6/2023 +N plots: 46-0-0 109 lbs/ac
Pesticides (as needed)	6/7/2023 Spot spray Milestone ~7oz/ac and Spread 90/100 6.4 oz/20 gallons	6/7/2023 Spot spray Milestone ~7oz/ac and Spread 90/100 6.4 oz/20 gallons	6/7/2023 Spot spray Milestone ~7oz/ac and Spread 90/100 6.4 oz/20 gallons
Grazing or Harvest	Block 1 (501-503): 6/20/2023-6/26/2023 Block 2 (504-506): 6/26/2023-7/2/2023 Block 3 (507-509): 7/2/2023-7/8/2023	None	Mowed: 12/6/2023 Chopped: 12/7/2023
Other Practices	None	None	None