

2021 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2021 Rotation Treatment #	CORN CS1 T1	CORN CS2 T3	CORN CS3 T4	CORN CS4 T7	CORN CS5 T13
Plot #'s	109, 204, 306, 412	101, 214, 303, 401	104, 201, 301, 402	111, 209, 305, 409	114, 211, 312, 403
Primary Tillage	Disk-chisel (2x) 11/10/2020	Strip-till 10/7/2020	Disk-chisel (2x) 11/10/2020	Disk-chisel (2x) 11/10/2020	Disk-chisel (2x) 11/10/2020
Secondary Tillage	Field cultiv (2x) 4/27/2021	None	Field cultiv (2x) 4/27/2021 Field cultiv (1x) 5/14/2021	Disk (1x) 4/22/2021 Field cultiv (2x) 4/27/2021	Disk (2x) 4/6/2021 Disk (1x) 4/22/2021 Field cultiv (2x) 4/27/2021 Field cultiv (1x) 5/14/2021
Planting Date Variety Rate	4/28/2021 DEKALB DK45-64RIB 34,300 seeds/ac	4/28/2021 DEKALB DK45-64RIB 34,300 seeds/ac	5/14/2021 Albert Lea "Viking" 0.52-96P 38,100 seeds/ac	4/28/2021 DEKALB DK45-64RIB 34,300 seeds/ac	5/14/2021 Albert Lea "Viking" 0.52-96P 38,100 seeds/ac
Starter Fertilizer	4/28/2021 9-11-30 100 lbs/ac	4/28/2021 9-11-30 100 lbs/ac	None	4/28/2021 9-11-30 100 lbs/ac	None
Nitrogen Fertilizer	6/7/2021 160 lbs N/ac as 32% UAN	6/7/2021 120 lbs N/ac as 32% UAN	None	None	None
Other Fertilizer (P, K, S, Lime)	3/30/2021 Lime Plots 306 & 412: 1.5 tons/ac 4/6/2021: TSP 0-46-0 plot 412: 120 lbs/ac	3/30/2021 Lime Plots 101 & 303 1.5 tons/ac 4/6/2021: KCl 0-0-60 Plots 101, 303, 401: 100 lbs/ac Plot 214: 60 lbs/ac 4/6/2021: TSP 0-46-0 Plots 303 & 214: 60 lbs/ac Plot 401: 200 lbs/ac	3/30/2021 Lime Plots 104 & 301: 1.5 tons/ac 4/2/2021 CPM 1.5 tons/ac 4/6/2021 K2SO4 0-0-50 Plots 104, 201, 402: 60 lbs/ac	None	3/30/2021 Lime Plot 211: 3 tons/ac 4/6/2021 K2SO4 0-0-50 Plots 211 & 403: 60 lbs/ac
Manure	None	None	None	11/5/2020 7,000 gal/ac (Blaine Dairy) Injected	11/5/2020 7,000 gal/ac (Blaine Dairy) Injected
Pesticides/ Herbicides (TBD by weed community)	4/30/2021 1.33 pts Moccasin II plus/ac, 6.5 oz Covallo 4SC/ac, 4 oz Compadre/ac, 2.5 lbs AMS/ac 6/4/2021 0.25 pts Durango DMA 2/ac, 4 oz Compadre/ac, 2 lbs AMS/ac	4/30/2021 1.33 pts Moccasin II plus/ac, 6.5 oz Covallo 4SC/ac, 4 oz Compadre/ac, 2.5 lbs AMS/ac 6/4/2021 0.25 pts Durango DMA 2/ac, 4 oz Compadre/ac, 2 lbs AMS/ac	None	4/30/2021 1.33 pts Moccasin II plus/ac, 6.5 oz Covallo 4SC/ac, 4 oz Compadre/ac, 2.5 lbs AMS/ac 6/4/2021 0.25 pts Durango DMA 2/ac, 4 oz Compadre/ac, 2 lbs AMS/ac	None
Rotary Hoe	None	None	Tine Weed: 5/17/2021 (2x) 5/22/2021 (2x) Rotary Hoe: 5/26/2021 (1x)	None	Tine Weed: 5/17/2021 (2x) 5/22/2021 (2x) Rotary Hoe: 5/26/2021 (1x)
Cultivation	None	None	Row Cultivate: 6/4/2021 (1x) 6/11/2021 (1x) 6/17/2021 (1x) Ridge Till using "yetter": 6/25/2021 (1x)	None	Row Cultivate: 6/4/2021 (1x) 6/11/2021 (1x) 6/17/2021 (1x) Ridge Till using "yetter": 6/25/2021 (1x)
Harvest	10/4/2021 Combined plot 204 10/6/2021 Combined plots 109, 306, 412 181 bu/ac	10/4/2021 Combined plot 214 10/6/2021 Combined plots 101, 303, 401 234 bu/ac	10/4/2021 Combined plot 201 10/6/2021 Combined plots 104, 301, 402 179 bu/ac	9/7/2021 Corn silage 13.6 t DM/ac 10/4/2021 Combined plots 111 & 209 10/6/2021 Combined plots 305 & 409 208 bu/ac	9/7/2021 Corn silage 10.4 t DM/ac 10/4/2021 Combined plots 114 & 211 10/6/2021 Combined plots 312 & 403 197 bu/ac
Fall Practices	10/16/2021 Stalk-chopped 11/4/2021 Chisel (2x)	None	10/16/2021 Stalk-chopped 11/4/2021 Chisel (2x)	10/16/2021 Stalk-chopped 10/28/2021 Manure 10,000 gal/acre (Blaine Dairy) 11/4/2021 Chisel (2x)	10/16/2021 Stalk-chopped 10/28/2021 Manure 10,000 gal/acre (Blaine Dairy) 11/4/2021 Chisel (2x)
Crop 2022	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

Soybean and Wheat Rotations			
CROP-2021 Rotation Treatment #	15", NT Soybean CS2 T2	30" Soybean/Wheat CS3 T6	Wheat/Berseem Clover – oats cover crop CS3 T5
Plot #'s	108, 206, 310, 408	102, 212, 313, 407	106, 202, 307, 411
Primary Tillage	None	Disk-chisel (2x) 11/10/2020	10/7/2020 Field cultiv (2x)
Secondary Tillage	None	4/6/2021 Disk (2x) 4/27/2021 Field cultiv (2x) 5/14/2021 Field cultiv (1x)	7/23/2021 Disk (2x) 7/23/2021 Field cultiv (1x) 8/4/2021 Field cultiv (1x) 8/5/2021 Cultipacker (1x)
Planting Date	4/28/2021 Plot 108 4/29/2021 Plots 206, 310, 408 6/4/2021 Plot 206 Replanted	5/14/2021 Drilled Soybeans 9/30/2021 Drilled Wheat	10/7/2020 Drilled wheat 8/5/2021 Drilled oats and berseem clover
Variety Rate	Asgrow AG 20X9 Plot 108: 177,000 sds/ac Plots 206, 310, 408: 180,000 seeds/ac Replant (206 only): DSR-0920E 150,000 seeds/ac	Blue River 07DC8 90 lbs/ac Erisman 122 lbs/ac	Wheat: 2 million seeds/ac Albert Lea LCS 3334 Berseem: 19.1 lbs/ac Oats: 74.5 lbs/ac
Fertilizer	4/6/2021 0-0-60 Plots 108, 310, 408: 200 lbs/ac Plot 206: 150 lbs/ac 4/6/2021 TSP 0-46-0 Plots 108 & 408: 120 lbs/ac Plot 310: 60 lbs/ac	3/30/2021 Lime Plot 102: 3 tons/ac Plots 212 & 407 1.5 tons/ac 4/6/2021 0-0-50 Plots 102 & 212: 190 lbs/ac Plot 313: 230 lbs/ac Plot 407: 100 lbs/ac	3/30/2021 Lime Plot 307: 1.5 ton/ac 4/2/2021 CPM 1 ton/ac 4/6/2021 0-0-50 Plot 106: 190 lbs/ac Plots 202 & 411: 150 lbs/ac
Pesticides/ Herbicides	4/30/2021 1.67 pts Moccasin II plus/ac, 44 oz Durango DMA/ac, 4 oz Compadre/ac, 2.5 lbs AMS/ac 6/22/2021 44 oz Durango DMA/ac, 8 oz Volunteer/ac, 2 lbs AMS/ 10/6/2021 48 oz Credit 41/ac, 3 pts 2-4-D low vol 4/ac, 2 lbs AMS/ac	None	None
Rotary Hoe/ Tine Weed	None	Tine Weed: 5/17/2021 (2x) 5/22/2021 (1x) 5/26/2021 (1x) Rotary Hoe: 5/26/2021 (1x)	None
Cultivation	None	Row cultivate: 6/4/2021 (1x) 6/7/2021 (1x) 6/15/2021 (1x) 6/25/2021 (1x) Ridge till with "yetter" 7/2/2021	None
Harvest	9/28/2021 56 bu/ac	9/28/2021 67.6 bu/ac	7/19/2021 Combined Grain: 82.5 bu/ac 7/19/2021 Haybined 7/22/2021 Baled Straw: 2 t DM/ac
Fall Practices	11/3/2021 Strip tillage	9/30/2021 Field cultiv (2x) 9/30/2021 Cultipack	None
Crop 2022	Corn	Wheat/Clover	Corn

Forage rotations						
CROP-2021 Rotation Treatment #	D.S. Alfalfa CS4 T10	Alfalfa I CS4 T9	Alfalfa II CS4 T8	Oats/Alfalfa CS5 T12	Alfalfa I CS5 T11	Pasture CS6 T14
Plot #'s	107, 205, 309, 404	105, 203, 308, 406	113, 210, 311, 414	103, 213, 314, 410	110, 208, 304, 413	112, 207, 302, 405
Primary Tillage	11/10/2020 Chisel (2x)	None	None	11/10/2020 Chisel (2x)	None	None
Secondary Tillage	4/25/2021 Field cultiv (2x) 4/26/2021 Cultipack	None	None	4/25/21 Field cultiv (2x) 4/26/2021 Cultipack	None	None
Planting Date Variety	4/26/2021 DKA40-21HVXRR	4/20/2020 Dekalb DKA40-21HVXRR	4/25/2019: Dekalb DKA40-21HVXRR Roundup Ready, HarvXtra alfalfa	4/26/2021 Blue River Dove Alfalfa; Classic Laker Oats	4/20/2020: Blue river Bluebird alfalfa, Laker Oats	3/20/2021 Red clover; Albert Lea VNS 9/17/2021 Beef Pasture Mix and Haymaker XL Orchard grass
Rate	16 bs/ac	16 lbs/ac	16.4 lbs/ac	Alfalfa: 25.4 lbs/ac Oats: 48.1 lbs/ac	Alfalfa: 18 lbs/ac Oats: 45 lbs/ac	3/20/2021: 16 lbs/ac frost seeded 9/17/2021: 15 lbs/ac drilled
Fertilizer	4/6/2021 KCL 0-0-60 Plots 309 & 404: 150 lbs/ac	3/30/2021 Plots 105 & 203 spread lime at 1.5 ton/ac 6/2/2021 KCL 0-0-60 250 lbs/ac, SuperCal 75 lbs/ac 7/2/2021 KCL 0-0-60 Plots 105, 308, 406: 250 lbs/ac 7/28/2021 2021 KCL 0- 0-60 Plots 105, 308, 406: 200 lbs/ac	3/30/2021 Plot 210 spread lime at 1.5 tons/ac 6/2/2021 KCL 0-0-60 250 lbs/ac, SuperCal 75 lbs/ac 7/2/2021 KCL 0-0-60 250 lbs/ac	3/30/2021 Plots 103 & 213 spread lime at 1.5 ton/ac 4/6/2021 K2SO4 0-0-50 Plots 213 & 410: 100 lbs/ac	7/28/2021 K2SO4 0-0-50 Plots 110, 304, 413: 200 lbs/ac 9/1/2021 K2SO4 0-0-50 Plots 110, 304, 413: 420 lbs/ac	3/30/2021 Plot 112 spread lime at 1.5 tons/ac 6/8/2021 Plots 112, 207, 302: 44-0-0 60 lbs N/ac 6/14/2021 Plot 405: 44-0- 0 60 lbs N/ac 7/2/2021 KCL 0-0-60 Plot 112: 300 lbs/ac
Manure	11/4/2020 11,000 gpa injected (Blaine Dairy)	None	None	11/4/2020 11,000 gpa injected (Blaine Dairy)	None	None
Pesticides/ Herbicides (Per scout report)	6/4/2021 Durango DMA 2.25 pts/ac, AMS 2 lbs/ac, Compadre 4 oz/ac 10/18/2021 Credit 41 48 oz/ac, AMS 2 lbs/ac	6/4/2021 Durango DMA 2.25 pts/ac, AMS 2 lbs/ac, Compadre 4 oz/ac 10/18/2021 Credit 41 at 48 oz/ac, AMS 2 lbs/ac	6/4/2021 Durango DMA 2.25 pts/ac, AMS 2 lbs/ac, Compadre 4 oz/ac 10/18/2021 Credit 41 at 48 oz/ac, 2,4-D LV4 at 3 pts/ac, AMS 2 lbs/ac	None	None	None
Harvest	Cut: 1 st : 6/30/2021 2 nd : 7/26/2021 3 rd : 8/30/2021 Merged: 1 st : 7/1/2021 2 nd : 7/27/2021 3 rd : 8/30/2021 Chopped: 1 st : 7/1/2021 2 nd : 7/27/2021 3 rd : 8/31/2021 2.7 t DM/ac	Cut: 1 st : 6/1/2021 2 nd : 6/30/2021 3 rd : 7/26/2021 4 th : 8/30/2021 Merged: 1 st : 6/2/2021 2 nd : 7/1/2021 3 rd : 7/27/2021 4 th : 8/30/2021 Chopped: 1 st : 6/2/2021 2 nd : 7/1/2021 3 rd : 7/27/2021 4 th : 8/31/2021 5.6 t DM/ac	Cut: 1 st : 6/1/2021 2 nd : 6/30/2021 3 rd : 7/26/2021 4 th : 8/30/2021 Merged: 1 st : 6/2/2021 2 nd : 7/1/2021 3 rd : 7/27/2021 4 th : 8/30/2021 Chopped: 1 st : 6/2/2021 2 nd : 7/1/2021 3 rd : 7/27/2021 4 th : 8/31/2021 5.3 t DM/ac	Cut: 1 st : 7/1/2021 2 nd : 8/30/2021 Tedded, Raked, Baled: 1 st : 7/2/2021 Merged: 2 nd : 8/30/2021 Chopped: 2 nd : 8/31/2021 3.4 t DM/ac	Cut: 1 st : 6/1/2021 2 nd : 6/30/2021 3 rd : 7/26/2021 4 th : 8/30/2021 Merged: 1 st : 6/2/2021 2 nd : 7/1/2021 3 rd : 7/27/2021 4 th : 8/30/2021 Chopped: 1 st : 6/2/2021 2 nd : 7/1/2021 3 rd : 7/27/2021 4 th : 8/31/2021 4.7 t DM/ac	5/30/2021 Plot 207: Mowed 6/1/2021 Plot 207: tedded 6/2/2021 Plot 207: raked 6/2/2021 Plot 207: baled 2.2 t DM/ac
Fall Practices	None	None	10/28/2021 Manure 7,000 gpa (Blaine Dairy) Broadcast 11/4/2021 Chisel (2x)	None	10/28/2021 Manure 7,000 gpa (Blaine Dairy) Broadcast 11/3/2021 Disk-chisel (1x)	
Crop 2022	Alfalfa I	Alfalfa II	Corn	Alfalfa 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	4/13/2021	4/13/2021	Never
Fertilizer	None	None	5/10/2021 +N plots: 44-0-0 114 lbs/ac
Pesticides (as needed)	7/9/2021 All plots spot sprayed Stinger (1 oz per 4.5 gal tank)	7/9/2021 All plots spot sprayed Stinger (1 oz per 4.5 gal tank)	5/11/2021 Plots 501, 504, 508: Chaparral 3 oz/ac, Spredde 90/10 6.4 oz/ac, Compadre 4 oz/ac, AMS 2 lbs/ac 7/9/2021 All plots spot sprayed Stinger (1 oz per 4.5 gal tank)
Grazing or Harvest	Block 1 (501-503): 6/12/2021-6/19/2021 Block 2 (504-506) 6/19/2021-6/23/2021 & 6/27/2021-6/28/2021 Block 3 (507-509) 6/24/2021-6/26/2021 & 6/29/2021-7/2/2021	None	11/8/2021: All plots mowed 11/10/2021 All plots chopped
Other Practices			