

2015 Agronomic Calendar for WICST (440)

ARLINGTON RESEARCH STATION

Corn rotations					
CROP-2015 Rotation Treatment # Plot No.s	CORN CS1 1 109, 204, 306, 412	CORN CS2 3 101, 214, 303, 401	CORN CS3 4 104, 201, 301, 402	CORN CS4 9 105, 203, 308, 406	CORN CS5 13 114, 211, 312, 403
Primary Tillage	Disk-Chisel 11/12/2014	Strip-tilled (BluJet) 11-12-2014	Disk-chisel (AgCo 4511) 4-17-2015 @ 6"	Disk-chisel w/AgCo 7400 11/12/2014 @ 8"	Disk-chisel w/AgCo 7400 11/12/2014 @ 8"
Secondary Tillage	Field Cultivated (Case IH 200) 6" 4/30/2015	None	Case IH field cult 6" 4-30-15 Case IH field cult 5-12-15	Case IH 200 field cult 6" 4-30-2015	AgCo Field cult 4/17/2015 Case IH field cult 6" 4-30-2015 Case IH field cult 5-12-2015
Planting Date Variety Rate	4/30/2015 Pioneer PO157 AMX 101d, 34,000 seeds/a	4/30/2015 Pioneer PO157 AMX 101d, 34,000 seeds/a	5-12-2015 Blue River 41R00 98d, 38,000 seeds/a	4/30/2015 Pioneer PO157 AMX 101d, 34,000 seeds/a	5-12-2015 Blue River 41R00 98d, 38,000 seeds/a
Starter Fertilizer	100 lb/ac 5-14-42	100 lb/ac 5-14-42	None	100 lb/ac 5-14-42	None
Misc Fertilizer	None	18-46-0 4/16/2015 101 & 401: 60 lbs/ac 0-0-60 4/17/2015 101: 75 lbs/ac	None	None	0-0-50 4/27/2015 114 & 403: 90 lbs/ac
Nitrogen Fertilizer	Anhydrous Ammonia 4/27/2015: 165 lbs N/ac	28% UAN 6/16/2014 135 lbs N/ac	None	None	None
Manure	11,000 GPA liquid manure (Blaine Dairy) 10/30/2012 (E15')	12,000 GPA liquid manure (Blaine Dairy) 11/20/2013 (E15')	12,000 GPA liquid manure (Blaine Dairy) 11/20/2013 (E15') 2 ton/ac CPM 4/24/2015	Manure (Blaine Dairy) 12,000 GPA 11/12/2014	Manure (Blaine Dairy) 12,000 GPA 11/12/2014
Pesticides/ Herbicides	Post-emerge 6/1/2015 Round Up Power Max 32 oz/ac	Pre-emerge 4/30/2015 RoundUp 44 oz/ac + Dual II Magnum 32 oz/ac + 2,4D 16 oz/ac Post-emerge 6/1/2015 Round Up Power Max 32 oz/ac	None	Post-emerge 6/1/2015 Round Up Power Max 32 oz/ac	None
Rotary Hoe	None	None	1st Rotary Hoe 5/22/2015 2nd Rotary Hoe 6/3/2015	None	1st Rotary Hoe 5/22/2015 2nd Rotary Hoe 6/3/2015
Cultivation	None	None	Wil-Rich 6/17/2015 Wil-Rich 6/25/2015	None	Wil-Rich 6/17/2015 Wil-Rich 6/25/2015
Harvest Date & Yield	10/22/2015 232 bu/ac	10/22/2015 215 bu/ac	10/20/2015 176 bu/ac	10/22/2015 249 bu/ac	10/22/2015 205 bu/ac
Fall Practices	Soil sampling, RF, 10/26/2015 Chisel plow 8" Agco 4511 11/20/2015	Soil sampling, RF, 10/26/2015	Soil Sampling: RF 10/26/2015 Deep Archive 10/29/2015 Chisel plow (AGCo 4511) 8", 6MPH 10/20/2015 CERES Cover crops planted 10/21/2015: spooner winter rye 100 lbs/ac	Soil sampling, RF, 10/26/2015 Deep archive cores 10/29/2015 14,000 GPA liquid manure (Blaine Dairy) 11/20/2015 Disk-Chisel (AGCO 4511) 11/20/2015 @ 8"	Soil sampling, RF, 10/26/2015 Deep archive cores 10/29/2015 14,000 GPA liquid manure (Blaine Dairy) 11/20/2015 Disk-Chisel (AGCO 4511) 11/20/2015 @ 8"
Crop 2016	Corn	Soybean	Soybean	D.S. Alfalfa	Oats/Alfalfa

Lime (80-89grade) was applied to select plots at 2 ton/a on 11-9-12

Used Stalk chopper on Case IH combine for CS1, CS3 ,CS4, and CS5 corn

Weed study on West 15' of CS1 & CS2

CERES plots in CS3 (104 North 150', 301 South 150', 402 South 150').

Soybean and Wheat Rotations			
CROP-2015 Rotation Treatment #	Drilled (7.5" rows) Soybean CS2 2	30" row Soybean/Wheat CS3 6	Wheat/oat berseem clover CC CS3 5
Plot #'s	108, 206, 310, 408	102, 212, 313, 407	106, 202, 307, 411
Primary Tillage	None	Disk-chisel w/AGCo 4511 11/5/2014 @ 8"	Disk-chisel w/AGCo 4511 9/29/2014 @ 12"
Secondary Tillage	None	CaseIH field cult 6" 4/30/2015 CaseIH field cult 5/12/2015	Field cultivated 9/30/2014
Planting Date	5-14-2015	SB: 5-12-2015 WW: 9-28-2015	WW: 9-30-2014 CC: 8-13-2015
Variety Rate	Renk 213NR2 225,000 seeds/ac with CellTech Inoculant	SB: Blue River 12A2 190,000 viable seeds/ac; WW: American Organic 9915 @ 105 lb/ac (low because of problematic JD drill)	WW: UW Foundation Seeds Kaskaskia: 166 lb/ac; CC: 18 lb/ac berseem clover; 60 lb/ac Ron oats (Foundation Seeds)
Fertilizer/ Manure	0-0-60 4/17/2015 108 & 310: 75 lbs/ac	0-0-50 4/27/2015: 102 & 212: 90 lbs/ac 313: 180 lbs/ac	0-0-50 4/27/2015, 202: 90 lbs/ac CPM @ 1 ton/ac on 4/3/2015
Pesticides/ Herbicides/ Cultivation	Pre-Emerge 4/30/2015: RoundUp 44 oz/ac + Dual II Magnum 32 oz/ac + 2,4-D 16 oz/ac Post emerge 6/16/2015: Round Up Power Max 32 oz/ac Fall burndown 10/26/2015: (West 15' only): 32 oz/ac glyphosate + 32 oz/ac 2,4-D	Drag-harrow (to level) 5/14/2015 Drag-harrow (to level) 5/19/2015 1 st and only Rotary hoe: 6/3/2015 6/17/2015 (Wil-Rich) 6/25/2015 (Wil-Rich)	None
Harvest date & yield	10-13-2015 67 bu/ac	9-28-2015 56 bu/ac	Wheat: 7/31/2015: 77 bu/ac Straw: 8/4/2015: 1.73 t DM/ac
Fall Practices	Burndown 2,4D 10/26/2015 (W15' only) Strip till (Blu Jet) 11-20-2015 Routine Fertility 10/26/2015	Chisel plow 9/28/2015 Field cultivate 9/28/2015 Plant winter wheat 9/28/2015 Routine Fertility 10/26/2015	Chisel plow AGCo 4511 6" 8-10-2015 Field cultivate 8-11-2015 Plant clover/oats 8-13-2015 Root Cutter 10/16/2014 Routine Fertility 10/26/2015
Crop 2016	Corn	Wheat / Clover+oats	Corn

Notes: Berseem clover from LaCrosse Forage and Turf, VNS.

CERES plots in CS3 (102 North 150', 106 North 150', 307 South 150', 313 North 150', 407 South 150', 411 North 150'.

CERES clover and oats seeding rate same as for main plot, sorghum seeding rate=54 lbs/ac (Nexteppe N52K1009), 8-12-2015.

CS3 T5 E10' planted with alfalfa (WL656 HQ) @ 18 lbs/ac, Ron oats @ 60 lbs/ac in plot No.'s 106 & 202, Badger oats @ 60 lbs/ac in plot No.'s 307 & 411 on 8/17/2015 (except CERES plots).

CS2 Weed study on West 15'

Forage rotations						
CROP-2015 Rotation Treatment #	D.S. Alfalfa CS4 8	Alfalfa I CS4 7	Alfalfa II CS4 10	Oats/Alfalfa CS5 12	Alfalfa I CS5 11	Pasture CS6 14
Plot #'s	113, 210, 311, 414	111, 209, 305, 409	107, 205, 309, 404	103, 213, 314, 410	110, 208, 304, 406	112, 207, 302, 405
Primary Tillage	Disk-chisel w/Agco 7400 11/12/2014 @10"	None	None	Disk-chisel w/Agco 7400 11/12/2014 @10"	None	None
Secondary Tillage	Field Cultivated w/Agco 5035 ~4" 4/3/2015 (was done 2x, but not needed) Brillion culti-mulcher after planting	None	None	Field Cultivated w/Agco 5035 ~4" 4/3/2015, Brillion culti-mulcher after planting	None	None
Variety	Dairyland Seed Hybridforce 3400	Pioneer 55Q27	Hybrid Force 2400	Blue Jay 3HR & Forage Plus Oats	Blue Jay 3HR	Freedom Red Clover Kopu II White Clover
Planting Rate & Date	15 lbs/ac 4/6/2015	13 lbs/ac 4/23/2014	12 lb/a 4-29-2013	Alf – 16.5 lbs/ac Oats 60 lbs/ac 4/4/2015	Alf – 15 lbs/ac 4/23/2014	11 lbs/ac 4/22/2013
Fertilizer (K20 per soil test)	None	150 lbs/ac 0-0-60 on 5/26/2015 (all) 150 lbs/ac 0-0-60 on 6/29/2015 (409 only)	150 lbs/ac 0-0-60 on 5/26/2015 (all) 150 lbs/ac 0-0-60 on 6/29/2015 (107 & 404)	None	180 lbs 0-0-50-17S 5/28/2015 (all) 180 lbs 0-0-50-17S 6/29/2015 (110 & 413)	405: 50lbs N/ac 6/5/2015 302: 50lbs N/ac 6/5/2015 207: 50lbs N/ac 6/22/2015 112: 50lbs N/ac 6/22/2015
Manure	12,000 GPA liquid manure (Blaine Dairy) 11/12/2014	None	None	12,000 GPA liquid manure (Blaine Dairy) 11/12/2014	None	Manure from 6 grazing steers 6-26-2015 to 10-6- 2015
Pesticides/ Herbicides (Per scout report)	Herbicide: Post-emerge: 6oz/ac Raptor 6/9/2015 Insecticide: None used in 2015	None	Burndown: 9/21/2015 Roundup PowerMAX (28oz/ac) + DEFY (24 oz/ac) +AMS (3 lbs/ac)	None	None	None
Harvest	7/1/2015 7/28/2015 9/3/2015 3.1 T DM/a	5/20/2015 6/25/2015 7/28/2015 9/3/2015 5.96 T DM/a	5/20/2015 6/25/2015 7/28/2015 9/3/2015 5.03 T DM/a	6/17/2015 7/28/2015 9/3/2015 5.46 T DM/a	5/20/2015 6/25/2015 7/28/2015 9/3/2015 5.85 T DM/a	6/17/2015 7/17/2015 8/24/2015 10/1/2015 4.36 ton DM/ac
Fall Practices	RF Soil sampling 10/26/2015	RF Soil sampling 10/26/2015	RF Soil sampling 10/26/2015 Manure (Blaine Dairy) 14,000 GPA 11/20/2015 Chisel Plow (AGCo 4511) 8" 11/20/2015	RF Soil sampling 10/26/2015	RF Soil sampling 10/26/2015 Manure (Blaine Dairy) 14,000 GPA 11/20/2015 Chisel Plow (AGCo 4511) 8" 11/20/2015	RF Soil sampling 10/26/2015 Drain water lines, remove oilers
Crop 2016	Alf I	Alf II	Corn	Alf I	Corn	Pasture

Lime (80-89grade) was applied to select plots at 2 ton/a on 11-9-12

CS4 T10 plot No.'s 107 and 205 Alfalfa reseeded due to planter skip, (Interseeding)Variety: 80% Hybrid Force 2400, 20% unknown alfalfa variety Date: 5/22/2013 Rate: 12 lbs/ac.

Hand weeding in plot No. 313 for Canada Thistle 7-2 through 7-3, 2013.

CS4 T8 and CS5 T12 (new seedings) were cultipacked on 4-6-2015 to level seedbed; Had trouble with new Landpride drill which made clumps.

CS7 NATIVE PRAIRIE FORAGE MANAGEMENT PLOTS (switchgrass, high diversity and low diversity prairie; N=9)

SARE Project			GLBRC
Forage management	Grazing	Mowing	Biofuel Research
Area of Plots	-----Fenced area-----		-----Unfenced area-----
Prescribed Burn	501 through 504 burned on 4/18/2014, 505 through 509 burned on 4/23/2014		None
Fertilizer	None other than manure from grazing heifers		6/18/2015: 50 lb N/a on main plot (34-0-0)
Pesticides <i>(spot spray Stinger on thistles as needed)</i>	None		None
Grazing or Harvest	Not grazed, harvested, mowed, or burned in 2015		Harvested with Kemper C2200 on 11/20/2015
Fall Practices			RF soil sampling 11/20/2015
Crop 2016	Pasture		Prairie
General Field Notes	Consider reseeding switchgrass?	None	None