

APPENDIX TABLES

NESARE PLANTING & HARVESTING INFORMATION: 2014

Rotation	Crop	Variety	Date of planting	Date of harvest / termination	Seed rate (per acre)	Seed depth (in)	Row spacing (in)	Maturity	Transgenic Traits
Forage Rotation	Alfalfa & Orchard-grass (Yr 1)	BM Alfalfa: 6422Q IM Alfalfa: SW420LH Orchardgrass: Extend	4/14/2014	6/24, 8/1, 9/16	alf: 10 lb grass: 4 lb	1/4-1/2	7.5		
	Alfalfa & Orchard-grass (Yr 2)	BM Alfalfa: 6422Q IM Alfalfa: SW420LH Orchardgrass: Extend	4/24/13	6/1, 7/1, 8/1, 9/4	alf: 10 lb grass: 4 lb	1/4-1/2	7.5		
	Clover Mix Interseed into Cg	An. Ryegr: RootMax RC: Common CC: Dixie Og: L63492 (King Agri)	7/1/14	Spring 2015	AR: 10 lb RC: 10 lb CC: 5 lb Og: 10 lb	1/4-1/2	7.5		
	Rye, RCunderseed	Rye: Aroostock RC: Freedom	10/4/13 - rye 4/2/14 - RC	5/12/14 - rye 7/21/14, 9/4/14 - RC replanted 10/27/14 termination: spr '15 - RC	120 lb 6.5 lb 8 lb	1-1.25 3/4	7.5		
	Rye, SSgrass,CC	Rye: Aroostock SSgrass: Unknown CC: Fall 2014	10/4/13 - rye 6/10/14 - SSgrass 8/29/14 + 9/12/14 - CC	5/12/14 - rye 7/21/14, 8/25/14 - ssg termination: spr '15 - CC	120 lb 25 lb 20 lb	1-1.25 3/4 ≤1	7.5		
	Corn Grain after Alf + Orch. Grass	P0210R	5/30/14	10/31/14	32 k	1.5	30	105 _{CRM}	RR2
	Corn Silage after Interseeded CCs	304-02 ND	5/12/14	9/5/2014	35 k	1.5	30	89 _{CRM}	RR
	Corn Silage after RC/CC	304-02 ND	5/12/14	9/5/2014	35 k	1.5	30	89 _{CRM}	RR
	Oats (after Cs after RC/CC)	Hercules? Blaze? (check with Scott0	10/3/2014	winterkills	96 lb or 3 Bu	1-1.25	7.5		
	Crimson Clover (fall plant 2013)	Dixie	9/4/13	winterkilled 2013-2014.	20 lb	≤1	7.5		

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Grain Rotation	SH: Alfalfa (establish)/ Yr 1	6422Q	4/14/14	7/1, 8/1, 9/16	18 lb	1/4-1/2	7.5		
	RH: Triticale, Alfalfa, & Orchard-grass (establish)/ Yr 1	Triticale: 336 Alfalfa: SW420LH Grass: Extend	4/14/14	7/1, 8/1, 9/16	trit: 45 lb alf: 10 lb grass: 4 lb	1/4-1/2	7.5		
	Alfalfa (Yr 2)	Genoa	4/24/13	6/1, 7/1, 8/1, 9/4	18 lb	1/4-1/2	7.5		
	Alfalfa (Yr 3)	Genoa	See 2012 table.	6/1, 7/1, 8/1	18 lb	1/4-1/2	7.5		
	Alfalfa & Orchard-grass (Yr 2)	Alfalfa: SW420LH Orchardgrass: Extend	4/24/13	6/1, 7/1, 8/1, 9/4	alf: 10 lb grass: 4 lb	1/4-1/2	7.5		
	Alfalfa & Orchard-grass (Yr 3)	Alfalfa: Genoa Orchardgrass: Extend	See 2012 table.	6/1, 7/1, 8/1	alf: 10 lb grass: 4 lb	1/4-1/2	7.5		
	Canola *SS grass replaced* (fall plant 2013)	Winter Can: Witchita Spr Can: 5505 SSgrass: Unknown	8/30/13 4/21/14 6/10/14	winterkilled flea beetles eliminated. 7/21, 8/25, 9/30	can: 6.5 lb ssgrs: 25 lb	3/4	7.5		None Clearfield None
	Canola (fall plant 2014)	Wichita	8/29/14	July 2015	6.5 lb	3/4	7.5		None
	Corn Silage	304-02 ND	5/31/14	9/19/2014	35K	1 1/2	30	89 _{CRM}	RR
	Oats (after Cs, 2014)	Hercules?, Blaze? (Ask Scott)	10/3/2014	winterkills.	96 lb or 3 Bu	1-1.5	7.5		
	Soybeans	Growmark HS28A12 (15" & 30" row)	15"/SH: 6/2/14 30"/RH & SH: 6/2/14	10/27/14	200 k	1-1.5	7.5/30	2.7	RR
	Rye	Aroostock	Ca,R: 10/4/13 R,S,R: 10/28/13	R,Cs: 5/18/14 R,S,R (SH): 5/18/14 R,S,R (RH): 5/18/14	120 lb	1-1.25	7.5		
	Rye (fall plant 2014)	Aroostock	Ca,R: 10/9/14 replanted 10/27/14 R,S,R: 10/29/14	Spring 2015	120 lb	1-1.25	7.5		
Corn-Soy Rotation	Corn Grain	P0210YXR	5/30/14	10/31/14	32 k	1.5	30	105 _{CRM}	HXX, LL, RR2
	Soybean	Growmark HS32A90	6/2/14	10/27/14	200 k	1-1.5	7.5/30	3.2	RR

NESARE NUTRIENT MANAGEMENT: 2014 (Green manure [RC,HV,CC] and cover crops [Rye] do not receive additional nutrients.)

Rotation	Crop	Manure App Date	Actual Rate of Manure App	Lime (week of 3/17/14)	Fertilizer at Planting	Sidedress N (lb N/A)	POST Fertilizer App Date	POST Rate of Fertilizer Application
Manure Rotation	Alf & Og - Yr. 1			1.5 T/A			10-2-14	No spring potash. 60 lbs K2O
	Alf & Og - Yr. 2			1.5 T/A			6-16-14 9-12-14	90 lbs K2O 60 lbs K2O
	Rye,RC underseed	9/24/13 9/25/13	BM: 20.4 T/A IM: 21.4 T/A	0.5 T/A			4-14-14	BM: 50 lbs N/A (as Urea/AMS at 33.55% N, or 150 lb fert) IM: No Nitrogen 4/14
	Rye,SSgrass,CC	9/24/13 9/25/13	BM: 20.4 T/A IM: 21.4 T/A	0.5 T/A			4-14-14 6-16-14 6-22-14 7-25-14	BM: 50 lbs N/A (as Urea/AMS at 33.55% N, or 150 lb fert) IM: No Nitrogen 4/14 BM: 60 lbs K2O 40 lbs N/A as AMS 50 lbs N/A as AMS
	Rye (fall plant 2014)	10-3-14	~17-18 T/A	N/A				
	Corn Grain (after alf + orchard grass)	I-III: 5/13/14 IV: 5/27/14	BM: 19 T/A IM: 19 T/A (planned rate)	1 T/A	160 lbs 12-40-0	6/30/14 (UAN): BM: 60 lb N (I, III, IV only)		
	Corn Silage (after interseed CCs)	5/6/14	BM: 19 T/A IM: 19 T/A (planned rate)	0.5 T/A	10 gal 7-21-7 (110.2 lb)	7/8/14 (UAN): BM: 70 lb N		
	Corn Silage (after RC/CC)	5/9/14	BM: 19 T/A IM: 19 T/A (planned rate)	1.5 T/A	10 gal 7-21-7	7/8/14 (UAN): BM: 70 lb N		
Corn-Soy Rotation	Corn Grain	I-III: 5/13/14 IV: 5/27/14	BM: 19 T/A IM: 19 T/A (planned rate)	1 T/A	160 lbs 12-40-0 Fert: 30 lb N/A urea at plant	6/30/14 (UAN) BM: I & IV: 90, II & III: 60 lb N/A IM: I & IV only: 60 lb N/A Fert: 125 lb N Block II BM/Fert only: 90 lb N	6-16-14	Fert: 60 lbs K2O
	Soybean			1 T/A			6-16-14	IM, Fert: 60 lbs K2O

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Rotation	Crop	Manure App Date	Actual Rate of Manure App	Lime (week of 3/17/14)	Fertilizer at Planting	Sidedress N (lb N/A)	POST Fertilizer App Date	POST Rate of Fertilizer Application	
Grain Rotation	Alf (SH) - Yr. 1			1.5 T/A			10-2-14	No spring potash. 140 lbs K2O	
	Alf (SH) - Yr. 2			2 T/A			6-16-14 9-12-14	60 lbs K2O 60 lbs K2O	
	Alf (SH) - Yr. 3			1.5 T/A				No spring potash.	
	Alf & Og, Trit (RH) - Yr. 1			1.5 T/A			10-2-14	No spring potash. 90 lbs K2O	
	Alf & Og (RH) Yrs. 2			2 T/A			6-16-14 9-12-14	60 lbs K2O 60 lbs K2O	
	Alf & Og (RH) Yrs. 3			1.5 T/A				No spring potash.	
	Canola **SS grass instead** (Planted Fall 2013)	8/13/13 8/23/13	BM: 23.1 T/A IM: 21.0 T/A	1 T/A				6-22-14	50 lbs N/A as AMS
	Canola (Planted Fall 2014)	8/18/14	19 T/A (planned rate)	AOg3 accounts.				Spring 2015	
	Corn Silage			1 T/A	10 gal 7-21-7	6/30/14 (UAN) I, IV, III (SH) + I, IV (RH): 90 lb N; II, III (RH) + II (SH): 125 lb N	6-16-14	RH: 90 lbs K2O	
	Rye before Cs, fall 2013	10/22/13	IM: 19.6 T/A	Soy accounts.					
Rye before Cs, fall 2014			Soy accounts.						
Soybeans			1.5 T/A				6-16-14	RH: 60 lbs K2O	

NESARE PEST MANAGEMENT INFORMATION: 2014

Rotation	Crop	Date of planting	Seed Treatments	Pre-emergence Treatment(s) or Burn-downs	Post-emergence Treatment(s)
Forage Rotation	Alfalfa and Orchardgrass (Year 1)	4/14/2014	Alf/6422Q - Mefenoxam fung Alf/ SW420LH - aquabond	4/18: 28 oz/A Roundup Powermax.	6/10: Large patches of thistle mowed. 6/22: 3 oz/A Warrior
	Alfalfa and Orchardgrass (Year 2)	4/24/13	Alf/6422Q - Mefenoxam fung Alf/ SW420LH - aquabond	N/A	6/22: 3 oz/A Warrior
	Rye/RUnderseed	Rye: 10/4/13 RC: 4/4/14	Rye: none RC: none	9/23/13: Corn stalks mowed.	6/10: Rye regrowth mowed. 6/25: Heading out rye clipped with a mower in RC plots.
	Rye/SSgrass,CC	Rye: 10/4/13 SSgrs: 6/10/14 CC:8/29 &9/12	Rye: none SSgrass: none CC: none	9/23/13: Corn stalks mowed.	6/10: Rye regrowth mowed. 7/2: 1 pt Buctril (bromoxynil) plus 1/2 pt 2,4-D amine (0.25 lb).
	Rye, fall plant 2014	Fall 2014	None	9/29: 32 oz Roundup Powermax for perennial weeds in corn before manure + planting	
	Corn Grain (after alf + orchard grass)	5/30/14	None	5/14: Alf+og killed with 32 oz Roundup + 8 oz 2,4 D + 16 oz Banvel (it rained 1 hr later)	5/31: 32 oz Round-up to control orchard grass not killed on 5/14 6/27: 22 oz Roundup Powermax
	Corn Silage (after interseeded CCs)	5/12/14	None	5/5: Interseed cover crops (those not winterkilled) sprayed with 32 oz Roundup, 8 oz Banville, and 8 oz 2,4D	6/10: 5 oz Status + 20 oz Roundup Powermax.
	Corn Silage (after RC/CC)	5/12/14	None	5/6: RC & CC sprayed with 32 oz Roundup, 8 oz Banville, and 8 oz 2,4D.	6/10: 5 oz Status + 20 oz Roundup Powermax.
	Oats (after Cs after RC/CC)	10/3/14	None	No burndown of weeds after corn.	winterkills.
	Crimson Clover (Planted Fall 2014)	Fall 2014	None	8/28: SS grass sprayed with 32 oz Roundup Powermax in prep for crimson clover planting	will be burned down in spring 2015.
	Red Clover (Planted Spr 2014)	4/4/14	None	none.	will be burned down in spring 2015.
Interseed CCs (Planted Summer '13)		None	none.	will be burned down in spring 2015.	

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Rotation	Crop	Date of planting	Seed Treatments	Pre-emergence Treatment(s)	Post-emergence Treatment(s)
Grain Rotation	Alfalfa (SH) (Establish- Year 1)	4/14/14	Alf/6422Q - Mefenoxam fungicide	No pre-emergence herbicide	6/6: 2 qts Butyrac to control grasses. 6/10: Large patches of thistle mowed. 6/22: 3 oz/A Warrior.
	Alf+Og, Trit (RH), (Establish- Year 1)	4/14/14	Alf/SW420LH - Aquabond Og: none Trit: none	No pre-emergence herbicide	6/10: Large patches of thistle mowed. 6/22: 3 oz/A Warrior.
	Alfalfa (SH) & (Years 2 & 3)	See 2012 and 2013 tables.	Alf - Mefenoxam fungicide	N/A	6/22: 3 oz/A Warrior.
	Alf+Og (RH) (Years 2 & 3)	See 2012 and 2013 tables.	Alf(Yr2)-Aquabond Alf(Yr3)-Mefenoxam Og: none	N/A	6/22: 3 oz/A Warrior.
	Canola (Planted Fall 2013) *SS grass in 2014*	Can: 8/30/13 Can: 4/21/14 SSgrs: 6/10/14	None	See 2013 management table.	4/18: 28 oz/A Roundup Powermax before spring canola planted as a rescue treatment. 6/2: 32 oz/A Roundup Powermax to kill any last spring canola not killed by flea beetles before ss grass planted.
	Canola (Planted Fall 2014)	Fall 2014	None	RH: 8/18, 8/25, 8/26, 8/27: Moldboard Plow, Disc, S-tine, Culti-mulch SH: 8/15: 32 oz Bullseye (Growmark's glyph), 16 oz 2-4-D, and 8 oz Banvel to burn-down alfalfa	TBD in 2015.
	Corn Silage	5/31/14	None	5/18: Rye was burned down with 22 oz Roundup Powermax and 1 pt 2,4 D-LVE. 5/31: RH: banded 3 oz Callisto +1.67 pt Dual II Mag 5/31: SH: 3 oz Callisto + 1.67 pt Dual II Mag	6/27: SH & RH/PH 22 oz Roundup + 3 oz Status 6/27 and 6/30: RH/HR high residue cultivation
	Oats after corn sil.	10/3/14	none	No burn-down of weeds after corn.	winterkills.
	Rye (fall plant 2013)	Ca,R: 10/4/13 R,S,R: 10/28/13	none	8/23: Ca,R: plots mowed to control weeds 9/16: Ca,R: 0.75 lb glyphosate + 0.5 lb 2,4-D R,S,R: none	Burned down spring 2014 (see corn and soy entries)
	Rye (fall plant 2014)	Ca,R: 10/9&27 R,S,R: 10/29/14	none	No pre-emergence herbicide	Will be burned down in spring 2015.
	Soybeans	30" : 6/2/14 15" : 6/2/14	None	5/18: Rye: 22 oz RPM and 1 pt 2,4 D-LVE. 6/2: Rye rolled down with roller crimper. 6/2: SH At plant - Fierce @ 3.75 oz/A. 6/2: RH At plant, banded - Fierce @ 3.75 oz/A.	7/3: SH & RH/PH 22 oz Roundup Powermax 7/3 & 7/8: RH/HR high residue cultivation

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Corn-Soy Rotation	Corn Grain	5/30/14	Fludioxonil, mefenoxam, & azoxystrobin fungicides + clothianidin & thiamexotham insecticides, + tebuconazole	5/14: Pre-burndown of 32 oz Roundup + 8 oz 2,4 D. 6/4: At plant 1.75 pt Sure Start, 1 qt AAtrex, and 3.5 oz Warrior.	7/2: 22 oz Roundup Powermax
	Soybean	6/2/14	Cruiser Maxx: Thiamexotham insecticide & mefenoxam + fludioxonil fungicides	5/18: Pre-burndown of 22 oz Roundup Powermax and 1 pt 2,4 D-LVE were sprayed.	7/2: 22 oz Roundup Powermax 7/16: 22 oz RPM + 0.6 oz Cadet to kill velvet leaf

Cg: Cruiser Extreme 250: thiamexotham insecticide + 3 fungicides (Apron [mefanoxam], Maxim [mefanoxam + fludioxonil], Dynasty [azoxystrobin])

2,4 D LVE: 2,4 D

Accent: nicosulfuron

AAtrex 4L: atrazine

Buctril: bromoxynil

Butyrac: 2,4 DB

Cadet: Fluciathet methyl

Callisto: mesotrione

Clarity/Banvel: diglycolamine salt

Dual II Mag: S-metolachlor

Fierce: flumioxizan + pyroxasulfone

Ignite: glufosinate

Permit: halosulfuron

Prowl H2O: pendimethalin

Status: dicamba + diflufenzopor

Stinger: clopyralid + monoethylamine salt

SureStart: acetochlor + flumetsulam + clopyralid

Valor XLT: fumioxazin + cloransulam methyl

Roundup Powermax: glyphosate

* 22 oz (0.75 lb/A)

* 32 oz (1.125 lb/A glyphosate + 2 lb AMS/A)

Warrior Insecticide: lambda-cyhalothrin