

ROTATION SHEETS
ROTATION AND TILLAGE EXPERIMENTS
MAIN FIELD - 1953

PROJECT - Rotation and Tillage Trials

Rotation - 1		Year - 1953	
	A	B	C
Crop	Corn FP	Wheat DC	Oats FP
Variety	Nodakhybrid 301	Pilot	Gopher
Plowing date	8-18-52	---	8-18-52
Plowing depth	4-5 inches	---	4-5 inches
Tillage before seeding	DD- 4-22-53 H 6-1-53	DD 4-22-53 H 4-22-53	DD 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 bu. per acre	1 $\frac{27}{8}$ bu. per acre
Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	---
Harvest date	9-8-53	8-13-53	8-12-53

Total pounds	12,500# silage per ac.	---	---
Straw, pounds	---	---	---
Grain, pounds	40	115	149
Yields per acre	11.4 bu. per acre	19.2 bu. per acre	46.6 bu. per acre
Grade	No. 1	Test wt. 58.0#	Test wt. 34#
Shelled corn figured at 70# ear corn per bushel for all rotations.			

Rotation - 2		Year - 1953	
	A	B	C
Crop	Corn SP	Wheat SP	Oats SP
Variety	Nodakhybrid 301	Pilot	Gopher
Plowing date	5-25-53	4-22-53	4-22-53
Plowing depth	4-5 inches	4-5 inches	4-5 inches
Tillage before seeding	---	---	---
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 bu. per acre	1 $\frac{27}{8}$ bu. per acre
Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-	---	---

	53		
Harvest date	9-8-53	8-13-53	8-12-53
Total pounds	12,300# silage per acre	---	---
Straw, pounds	---	---	---
Grain, pounds	145	134	179
Yields per acre	41.4 bu. per acre	22.4 bu. per acre	55.9 bu. per acre
Grade	No. 1	Test Wt. 57#	Test Wt. 36#

Rotation - 3		Year - 1953	
	A	B	C
Crop	Corn FP	Wheat FP	Oats FP
Variety	Nodakhybrid 301	Pilot	Gopher
Plowing date	8-18-52	8-18-52	8-18-52
Plowing depth	4-5 inches	4-5 inches	4-5 inches
Tillage before seeding	DD 4-22-53 H 6-1-53	DD 4-22-53 H 4-22-53	DD 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 bu. per acre	1 $\frac{27}{8}$ bu. per acre
Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill

Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	---
Harvest date	9-8-53	8-13-53	8-12-53
Total pounds	9,400# silage per acre	---	---
Straw, pounds	---	---	---
Grain, pounds	80	100	151
Yields per acre	22.9 bu. per acre	16.7 bu. per acre	47.2 bu. per acre
Grade	No. 1	Test Wt. 57#	Test Wt. 36#

Rotation - 4		Year - 1953	
	A	B	C
Crop	Corn FP	Oats DC	Wheat FP
Variety	Nodakhybrid 301	Gopher	Pilot
Plowing date	8-18-52	---	8-19-52
Plowing depth	4-5 inches	---	4-5 inches
Tillage before seeding	DD 4-22-53 H 6-1-53	DD 4-22-53 H 4-22-53	DD 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 $\frac{27}{11}$ bu. per acre	1 bu. per acre

Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	---
Harvest date	9-8-53	8-12-53	8-13-53
Total pounds	9,200# silage per acre	---	---
Straw, pounds	---	---	---
Grain, pounds	130	147	100
Yields per acre	37.1 bu. per acre	45.9 bu. per acre	16.7 bu. per acre
Grade	No. 1	Test Wt. 34#	Test Wt. 56#

Rotation - 5		Year - 1953	
	A	B	C
Crop	Fallow	Wheat F	Oats FP
Variety		Pilot	Gopher
Plowing date		---	8-18-52
Plowing depth		4-5 inches	4-5 inches
Tillage before seeding		DF 4-22-53 H 4-22-53	DD 4-22-53 H 4-22-53
Seeding date		4-23-53	4-23-53

Seeding rate		1 bu. per acre	1 $\frac{29}{8}$ bu. per acre
Seeding manner		DD Press Drill	DD Press Drill
Tillage after seeding		---	---
Harvest date		8-13-53	8-12-53
Total pounds		---	---
Straw, pounds		---	---
Grain, pounds		146	186
Yields per acre		24.3 bu. per acre	58.1 bu. per acre
Grade		Test Wt. 56#	Test Wt. 35#

	Rotation - 6		Year - 1953	
	A	B	B	
Crop	Corn FP	Barley DC	Oats FP	
Variety	Nodakhybrid 301	Trebi	Gopher	
Plowing date	8-18-52	---	8-19-52	
Plowing depth	4-5 inches	---	4-5 inches	
Tillage before seeding	DD 4-22-53	DD 4-22-53	DD 4-22-53	

	H 6-1-53	H 4-22-53	H 4-22-53
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 bu. Per acre	1 $\frac{27}{8}$ bu. per acre
Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	---
Harvest date	9-8-53	8-14-53	8-12-53
Total pounds	9,600 # silage per acre	---	---
Straw, pounds	---	---	---
Grain, pounds	170	134	160
Yields per acre	48.6 bu. per acre No. 1	27.3 bu. per acre Test Wt. 41.0#	50.0 bu. per acre Test Wt. 35.0#
Grade			

	Rotation - 7		Year - 1953	
	A	B	C	
Crop	Corn SP	Oats SP	Barley SP	
Variety	Nodakhybrid 301	Gopher	Trebi	
Plowing date	5-25-53	4-22-53	4-22-53	

Plowing depth	4-5 inches	4-5 inches	4-5 inches
Tillage before seeding	H 6-1-53	---	---
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 $\frac{27}{8}$ bu. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	---
Harvest date	9-8-53	8-10-53	8-14-53
Total pounds	9,300 # silage per acre	---	---
Straw, pounds	---	---	---
Grain, pounds	130	183	142
Yields per acre	37.1 bu. per acre	57.2 bu. per acre	29.0 bu. per acre
Grade	No. 1	Test Wt. 35.0#	Test Wt. 41.0#

Rotation - 8		Year - 1953	
	A	B	C
Crop	Fallow	Oats F-	Wheat FP
Variety		Gopher	Pilot

Plowing date		--	8-19-52
Plowing depth		--	4-5 inches
Tillage before seeding		DF 4-22-53 H 4-22-53	DD 4-22-53 H 4-22-53
Seeding date		4-23-53	4-23-53
Seeding rate		1 $\frac{21}{1}$ bu. per acre	1 bu. per acre
Seeding manner		DD Press Drill	DD Press Drill
Tillage after seeding		---	---
Harvest date		8-10-53	8-13-53
Total pounds		---	---
Straw, pounds		---	---
Grain, pounds		198	124
Yields per acre		61.9 bu. per acre	20.7 bu. per acre
Grade		Test Wt. 35.0#	Test Wt. 56.0 #

Rotation - 9		Year - 1953	
	A	B	B

Crop	Corn SP	Oats SP	Wheat SP
Variety	Nodakhybrid 301	Gopher	Pilot
Plowing date	5-25-53	4-22-53	4-22-53
Plowing depth	4-5 inches	4-5 inches	4-5 inches
Tillage before seeding	DD 4-22-53 H 6-1-53	---	---
Seeding date	6-1-53	4-23-53	4-23-53
Seeding rate	8# per acre	1 $\frac{29}{11}$ bu. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD Press Drill	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	---
Harvest date	9-8-53	8-10-53	8-13-53
Total pounds	12,700 # silage per acre	---	---
Straw, pounds	---	---	---
Grain, pounds	135	166	112
Yields per acre	38.6 bu. per acre	51.9 bu. per acre	18.7 bu. per acre
Grade	No. 1	Test Wt. 35.0 #	Test Wt. 57.0 #

Rotation - 10	Year - 1953
----------------------	--------------------

	A	B	C	D	E
Crop	Cr. Whtgr.	Cr. Whtgr.	Oats FP, Sod	Corn SP	Wheat DC Cr. Whtgr.
Variety	Standard	Standard	Gopher	Nodakhybrid 301	Pilot Standard
Plowing date			8-18-52	5-25-53	---
Plowing depth			4-5 inches	4-5 inches	4-5 inches
Tillage before seeding			DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53
Seeding date			4-23-53	6-1-53	4-23-53
Seeding rate			1 $\frac{27}{11}$ bu. per ac.	8# per ac.	1 bu. per ac.
Seeding manner			DD Press Drill	2 Row Planter	DD Press Drill
Tillage after seeding			--	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---
Harvest date			8-12-53	9-8-53	8-13-53
Total pounds			---	10,500# silage per acre	---
Straw, pounds			---	---	---
Grain, pounds			142	160	135
Yields per acre	Second year of	2100 #	44.4 bu. per ac.	45.7 bpa	22.5 bpa

	establishment. Not Cut.				
Grade		Excellent	Test Wt. 37.0#	No. 1	Test Wt. 57.5#

Rotation - 11			Year - 1953		
	A	B	C	D	E
Crop	S. Clover	S. Clover	Oats SP	Corn SP	Wheat DC
Variety	Yellow	Yellow	Gopher	Nodakhybrid 301	Pilot
Plowing date			4-22-53	5-25-53	---
Plowing depth			4-5 inches	4-5 inches	---
Tillage before seeding			---	H 6-1-53	DD 4-22-53 H 4-22-53
Seeding date			4-23-53	6-1-53	4-23-53
Seeding rate			1 $\frac{27}{11}$ bpa	8# per acre	1 bpa
Seeding manner			DD Press Drill	2 Row Planter	DD Press Drill
Tillage after seeding			---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---
Harvest date			8-10-53	9-8-53	8-13-53

Total pounds		200	---	13,700# silage per acre	---
Straw, pounds			---	---	---
Grain, pounds			169	170	131
Yields per acre	Year of establishment	2000	52.8 bpa	48.6 bpa	21.8 bpa
Grade		Good	Test Wt. 35.0#	No. 1	Test Wt. 57.0#

Rotation - 12				Year - 1953		
	A	B	C	D	E	F
Crop	Oats FP	Corn SP	Wheat DC Cr. Whtgr.	Cr. Whtgr.	Cr. Whtgr.	Cr. Whtgr.
Variety	Gopher	Nodakhybrid 301	Pilot Standard	Standard	Standard	Standard
Plowing date	8-19-52	5-25-53	---			
Plowing depth	4-5 inches	4-5 inches	---			
Tillage before seeding	DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53			
Seeding date	4-23-53	6-1-53	4-23-53			

Seeding rate	1 $\frac{21}{1}$ bpa	8# per ac.	1 bpa			
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill			
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---			
Harvest date	8-12-53	9-8-53	8-13-53			
Total pounds	---	13,700# silage per acre	---			
Straw, pounds	---	---	---			
Grain, pounds	157	205	120			
Yields per acre	49.1 bpa	58.7 bpa	20.0 bpa	Year of establishment	1450#	1800#
Grade	Test Wt. 33.0#	No. 1	Test Wt. 57.0#	--	Excellent	Excellent

Rotation - 14			Year 1953	
	A	B	C	D
Crop	Oats GM	Corn SP	Wheat, DC S. Clover	S. Clover DM
Variety	Gopher	Nodakhybrid 301	Pilot	Yellow

			Yellow	
Plowing date	---	5-25-53	---	---
Plowing depth	---	4-5 inches	---	---
Tillage before seeding	DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 $\frac{27}{11}$ bpa	8 # per acre	1 bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	
Harvest date	8-12-53	9-8-53	8-13-53	
Total pounds	---	16,400 # silage per acre	---	
Straw, pounds	---	---	---	
Grain, pounds	211	215	115	
Yields per acre	65.9 bpa	61.4 bpa	19.2 bpa	
Grade	Test Wt. 35.0#	No. 1	Test Wt. 58.0#	


Rotation - 15	Year - 1953
----------------------	--------------------

	A	B	C	D
Crop	Wheat GM	Corn SP	Sweet Clover Oats DC	S. Clover GM
Variety	Pilot	Nodakhybrid 301	Yellow Gopher	Yellow
Plowing date	---	5-25-53	---	---
Plowing depth		4-5 inches		
Tillage before seeding	DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 bpa	8# per acre	1 $\frac{29}{R}$ bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	
Harvest date	8-13-53	9-8-53	8-10-53	
Total pounds	---	14,400 # silage per ac.	---	
Straw, pounds	---	---	---	
Grain, pounds	140	160	158	
Yields per acre	23.3 bpa	45.7 bpa	49.4 bpa	

Grade	Test Wt 56.0#	No. 1	Test Wt. 35.0#
-------	---------------	-------	----------------

Rotation - 16			Year - 1953	
	A	B	C	D
Crop	Oats GM	Corn SP	S. Clover Wheat DC	S. Clover
Variety	Gopher	Nodakhybrid 301	Yellow Pilot	Yellow
Plowing date	---	5-25-53	---	---
Plowing depth	---	4-5-inches	---	---
Tillage before seeding	DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 $\frac{27}{11}$ bpa	8# per acre	1 bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	
Harvest date	8-12-53	9-8-53	8-13-53	
Total pounds	---	12,800 # silage per acre	---	

Straw, pounds	---	---	---	
Grain, pounds	218	170	122	
Yields per acre	68.1 bpa	48.6 bpa	20.3 bpa	
Grade	Test Wt. 36.0#	No. 1	Test Wt. 56.0#	

Rotation - 17			Year - 1953	
	A	B	C	D
Crop	Wheat GM	Corn SP	S. Clover Oats DC	S. Clover GM
Variety	Pilot	Nodakhybrid 301	Yellow Gopher	Yellow
Plowing date	---	5-25-53	---	---
Plowing depth	---	4-5 inches	---	
Tillage before seeding	DD 4-22-53 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 bpa	8# per acre	1  bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53	---	

		Cult. 7-1-53, 7-10-53, 7-24-53		
Harvest date	8-13-53	9-8-53	8-10-53	
Total pounds	---	15,300 lb. silage per ac.	---	
Straw, pounds	---	---	---	
Grain, pounds	158	210	161	
Yields per acre	26.3 bpa	60.0 bpa	50.3 bpa	
Grade	Test Wt. 57.0#	No. 1	Test Wt. 36.0#	

Rotation - 18			Year - 1953	
	A	B	C	D
Crop	Corn SP	Oats DC	Fallow	Wheat F
Variety	Nodakhybrid 301	Gopher		Pilot
Plowing date	5-25-53	---		---
Plowing depth	4-5 inches	---		---
Tillage before seeding	H 6-1-53	DD 4-22-53 H 4-22-53		DF 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53		4-23-53

Seeding rate	8# per acre	1 $\frac{27}{1}$ bpa		1 bpa
Seeding manner	2 Row Planter	DD Press Drill		DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---		---
Harvest date	9-8-53	8-12-53		8-13-53
Total pounds	13,300 # silage per ac.	---		---
Straw, pounds	---	---		---
Grain, pounds	190	151		141
Yields per acre	54.3 bpa	47.2 bpa		23.5 bpa
Grade	No. 1	Test Wt. 36.0#		Test Wt. 56.0#

Rotation - 19			Year - 1953	
	A	B	C	D
Crop	Oats F	Corn SP	Wheat DC	Fallow
Variety	Gopher	Nodakhybrid 301	Pilot	
Plowing date	---	5-25-53	---	
Plowing depth	---	4-5 inches	---	

Tillage before seeding	DF 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 $\frac{27}{21}$ bpa	8# per acre	1 bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	
Harvest date	8-12-53	9-8-53	8-13-53	
Total pounds	---	13,800 # silage per ac.	---	
Straw, pounds	---	---	---	
Grain, pounds	208	190	119	
Yields per acre	65.0 bpa	54.3 bpa	19.8 bpa	
Grade	Test Wt. 35.0#	No. 1	Test Wt. 57.0#	

Rotation - 31		Year - 1953		
	A	B	C	D
Crop	Oats GM	Corn SP	S. Clover Wheat DC	S. Clover

Variety	Gopher	Nodakhybrid 301	Yellow Pilot	Yellow
Plowing date	---	5-25-53	---	
Plowing depth	---	4-5 inches	--	
Tillage before seeding	DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 $\frac{27}{n}$ bpa	8# per acre	1 bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	
Harvest date	8-10-53	9-8-53	8-13-53	
Total pounds	---	13,700 # silage per acre	---	
Straw, pounds	---	---	---	
Grain, pounds	196	170	124	
Yields per acre	61.3 bpa	48.6 bpa	20.7 bpa	
Grade	Test Wt. 35.0#	No. 1	Test Wt. 57.0#	

Rotation - 32			Year - 1953	
	A	B	C	D
Crop	Wheat GM	Corn SP	S. Clover Oats DC	S. Clover GM
Variety	Pilot	Nodakhybrid 301	Yellow Gopher	Yellow
Plowing date	---	5-25-53	---	
Plowing depth	---	4-5 inches	---	
Tillage before seeding	DD 4-22-53 H 4-22-53	H 6-1-53	DD 4-22-53 H 4-22-53	
Seeding date	4-23-53	6-1-53	4-23-53	
Seeding rate	1 bpa	8# per acre	1 $\frac{29}{11}$ bpa	
Seeding manner	DD Press Drill	2 Row Planter	DD Press Drill	
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---	
Harvest date	8-13-53	9-8-53	8-10-53	
Total pounds	---	13,700 # silage per acre	---	
Straw, pounds	---	---	---	
Grain, pounds	140	195	166	

Yields per acre	23.3 bpa	55.7 bpa	51.9 bpa	
Grade	Test Wt. 55.5#	No. 1	Test Wt. 35.0#	

Rotation - 42				Year - 1953		
	A	B	C	D	E	F
Crop	Wheat DC	Alfalfa	Alfalfa	Alfalfa	Oats FP	Corn SP
Variety	Pilot	Ladak	Ladak	Ladak	Gopher	Nodakhybrid 301
Plowing date	--				8-18-52	5-25-53
Plowing depth	--				4-5 inches	4-5 inches
Tillage before seeding	DD 4-22-53 H 4-22-53				DD 4-22-53 H 4-22-53	H 6-1-53
Seeding date	4-23-53				4-23-53	6-1-53
Seeding rate	1 bpa				1 $\frac{27}{8}$ bpa	8# per acre
Seeding manner	DD Press Drill				DD Press Drill	2 Row Planter
Tillage after seeding	---				---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53

Harvest date	8-13-53				8-10-53	9-8-53
Total pounds	---			145	---	12,800 # silage per acre
Straw, pounds	---			---	---	---
Grain, pounds	138				152	180
Yields per acre	23.0 bpa	Year of establishment.	Stand too thin to cut.	1450	47.5 bpa	51.4 bpa
Grade	Test Wt. 57.0#			Excellent	Test Wt. 33.0#	No. 1
Alfalfa - one cutting only on dryland in 1953.						

Rotation - 61		Year - 1953	
-	A	B	C
Crop	Wheat F	Oats SP	Fallow
Variety	Pilot	Gopher	---
Plowing date	---	4-22-53	---
Plowing depth	---	4-5 inches	---
Tillage before seeding	DF 4-22-53 H 4-22-53	---	---

Seeding date	4-23-53	4-23-53	---
Seeding rate	1 bpa	1 $\frac{27}{8}$ bpa	---
Seeding manner	DD Press Drill	DD Press Drill	---
Tillage after seeding	---	---	---
Harvest date	8-13-53	8-10-53	---
Total pounds	---	---	---
Straw, pounds	---	---	---
Grain, pounds	133	171	---
Yields per acre	22.2 bpa	53.4 bpa	---
Grade	Test Wt. 55.0#	Test Wt. 36.0#	---

Rotation - 62		Year - 1953	
	A	B	C
Crop	Wheat FP	Oats SP	Corn SP, Manured*
Variety	Pilot	Gopher	Nodakhybrid 301
Plowing date	8-19-52	4-22-53	5-25-53
Plowing depth	4-5 inches	4-5 inches	4-5 inches
Tillage before seeding	DD 4-22-53 H 4-22-53	---	H 6-1-53

Seeding date	4-23-53	4-23-53	6-1-53
Seeding rate	1 bpa	1 $\frac{27}{8}$ bpa	8# per acre
Seeding manner	DD Press Drill	DD Press Drill	2 Row Planter
Tillage after seeding	---	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53
Harvest date	8-13-53	8-10-53	9-8-53
Total pounds	---	---	14,400 # silage per acre
Straw, pounds	---	---	---
Grain, pounds	137	201	175
Yields per acre	22.8 bpa	62.8 bpa	50.0 bpa
Grade	Test Wt. 56.0#	Test Wt. 36.0#	No. 1
*Manure applied at rate of 10 tons per acre.			

Rotation - 63		Year - 1953	
	A	B	C
Crop	Wheat F	Oats SP	Fallow
Variety	Plot	Gopher	

Plowing date	---	4-22-53	
Plowing depth		4-5 inches	
Tillage before seeding	DF 4-22-53 H 4-22-53	---	
Seeding date	4-23-53	4-23-53	
Seeding rate	1 bpa	1 $\frac{21}{11}$ bpa	
Seeding manner	DD Press Drill	DD Press Drill	
Tillage after seeding	---	---	
Harvest date	8-13-53	8-10-53	
Total pounds	---	---	
Straw, pounds	---	---	
Grain, pounds	120	201	
Yields per acre	20.0 bpa	62.8 bpa	
Grade	Test Wt. 54.0#	Test Wt. 34.0#	

Rotation - MC'		Year - 1953
	C'	D'

Crop	Fallow	Barley F
Variety		Trebi
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 4-22-53 H 4-22-53
Seeding date		4-23-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-14-53
Total pounds		---
Straw, pounds		---
Grain, pounds		184
Yields per acre		37.6 bpa
Grade		Test Wt. 44.0#

Rotation - 40		Year - 1953
	A	B
Crop	Corn, SP	Oats, DC
Variety	Nodakhybrid 301	Gopher
Plowing date	5-26-53	---
Plowing depth	4-5 inches	---
Tillage before seeding	H 6-1-53	DD 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53
Seeding rate	8# per acre	1 $\frac{27}{11}$ bpa
Seeding manner	2 Row Planter	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---
Harvest date	9-8-53	8-12-53
Total pounds	7,500 # silage per acre	---
Straw, pounds	---	---
Grain, pounds	130	161
Yields per acre	37.1 bpa	50.3 bpa
Grade	No. 1	Test Wt. 35.0#

Rotation - 49		Year - 1953
	A	B
Crop	Corn, SP	Wheat, DC
Variety	Nodakhybrid 301	Pilot
Plowing date	5-26-53	---
Plowing depth	4-5 inches	---
Tillage before seeding	H 6-1-53	DD 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53
Seeding rate	8# per acre	1 bpa
Seeding manner	2 Row Planter	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---
Harvest date	9-8-53	8-13-53
Total pounds	13,000 # silage per acre	---
Straw, pounds	---	---
Grain, pounds	170	137
Yields per acre	48.6 bpa	22.8 bpa
Grade	No. 1	Test Wt. 57.0#

Rotation - 79		Year - 1953
	A	B
Crop	Corn, SP	Barley, DC
Variety	Nodakhybrid 301	Trebi
Plowing date	5-26-53	---
Plowing depth	4-5 inches	---
Tillage before seeding	H 6-1-53	DD 4-22-53 H 4-22-53
Seeding date	6-1-53	4-23-53
Seeding rate	8# per acre	1 bpa
Seeding manner	2 Row Planter	DD Press Drill
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	---
Harvest date	9-8-53	8-14-53
Total pounds	11,700# silage per acre	---
Straw, pounds	---	---
Grain, pounds	160	153
Yields per acre	45.7 bpa	31.2 bpa
Grade	No. 1	Test Wt. 43.0#

Rotation - 242		Year - 1953
	A	B
Crop	Millet, DC	Corn, SP
Variety	Siberian	Nodakhybrid, 301
Plowing date	---	5-26-53
Plowing depth	---	4-5 inches
Tillage before seeding	Disking	H 6-1-53
Seeding date	6-1-53	6-1-53
Seeding rate	20# per acre	8# per acre
Seeding manner	DD Press Drill	2 Row Planter
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53
Harvest date	8-10-53	9-8-53
Total pounds	200	11,300 # silage per acre
Straw, pounds	---	---
Grain, pounds	---	140
Yields per acre	2000# hay	40.0 bpa
Grade	Good	No. 1

Rotation 243		Year - 1953
	A	B
Crop	Flax, SP	Corn, SP
Variety	B-5128	Nodakhybrid 301
Plowing date	4-22-53	5-26-53
Plowing depth	4-5 inches	4-5 inches
Tillage before seeding	H 5-6-53	H 6-1-53
Seeding date	5-7-53	6-1-53
Seeding rate	2 pecks	8# per acre
Seeding manner	DD Press Drill	2 Row Planter
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53
Harvest date	8-31-53	9-8-53
Total pounds	---	11,600 # silage per acre
Straw, pounds	---	---
Grain, pounds	49	150
Yields per acre	8.8 bpa	42.9 bpa
Grade	Test Wt. 54.0#	No. 1

Rotation - 244		Year - 1953
	A	B
Crop	Flax	Cr. Wheatgrass
Variety	B-5128	Standard
Plowing date	4-22-53	
Plowing depth	4-5 inches	
Tillage before seeding	H 5-6-53	
Seeding date	5-7-53	
Seeding rate	2 pecks	
Seeding manner	DD Press Drill	
Tillage after seeding	---	
Harvest date	8-31-53	
Total Pounds	---	
Straw, pounds	---	
Grain, pounds	54	
Yields per acre	9.6 bpa	

Grade	Test Wt. 54.5#	
-------	----------------	--

Rotation - 245		Year - 1953
	A	B
Crop	Flax, DC	Corn, SP
Variety	B-5128	Nodakhybrid 301
Plowing date	4-22-53	5-26-53
Plowing depth	4-5 inches	4-5 inches
Tillage before seeding	H 5-6-53	H 6-1-53
Seeding date	5-7-53	6-1-53
Seeding rate	2 pecks	8# per acre
Seeding manner	DD Press Drill	2 Row Planter
Tillage after seeding	---	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53
Harvest date	8-31-53	9-8-53
Total pounds	---	11,600 # silage per acre
Straw, pounds	---	---
Grain, pounds	45	170
Yields per acre	8.0 bpa	48.6 bpa

Grade	Test Wt. 52.0#	No. 1
-------	----------------	-------

Rotation - 414		Year - 1953
	A	B
Crop	Fallow	Potatoes, F
Variety		Irish Cobbler
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-25-53 H 5-25-53
Seeding date		6-1-53
Seeding rate		10 bpa
Seeding manner		Hand planted
Tillage after seeding		Cult. 7-10-53, 7-24-53
Harvest date		9-23-53
Total pounds		315#
Straw, pounds		---

Grain, pounds		---
Yields per acre		2400# U.S. No. 1 750# culls.
Grade		

Rotation - 415		Year - 1953
	A	B
Crop	Wheat, DD	Potatoes, SP
Variety	Pilot	Irish Cobbler
Plowing date	---	5-25-53
Plowing depth		4-5 inches
Tillage before seeding	DD 4-22-53 H 4-22-53	H 5-25-53
Seeding date	4-23-53	6-1-53
Seeding rate	1 bpa	10 bpa
Seeding manner	DD Press Drill	Hand planted
Tillage after seeding	---	Cult. 7-10-53, 7-24-53
Harvest date	8-13-53	9-23-53
Total pounds	---	415#

Straw, pounds	---	---
Grain, pounds	147	---
Yields per acre	24.5 bpa	3150# U.S. No. 1 1000# Culls
Grade	Test Wt. 56.5#	

Rotation - Continuous Wheat			Year - 1953	
-	A	B	C	D
Crop	Wheat, SP	Wheat, FP	Wheat, F	Fallow
Variety	Pilot	Pilot	Pilot	
Plowing date	4-22-53	8-19-52	---	
Plowing depth	4-5 inches	4-5 inches	---	
Tillage before seeding	---	DD 4-22-53 H 4-22-53	DF 4-22-53 H 4-22-53	
Seeding date	4-23-53	4-23-53	4-23-53	
Seeding rate	1 bpa	1 bpa	1 bpa	
Seeding manner	DD Press Drill	DD Press Drill	DD Press Drill	
Tillage after seeding	---	---	---	

Harvest date	8-13-53	8-13-53	8-13-53	
Total pounds	---	---	---	
Straw, pounds	---	---	---	
Grain, pounds	95	88	127	
Yields per acre	15.8 bpa	14.6 bpa	21.2 bpa	
Grade	Test Wt. 54.0#	Test Wt. 56.0#	Test Wt. 56.0#	

Rotation - Continuous Oats			Year - 1953	
	A	B	C	D
Crop	Oats, SP	Oats, FP	Oats, F	Fallow
Variety	Gopher	Gopher	Gopher	
Plowing date	4-22-53	8-19-52	---	
Plowing depth	4-5 inches	4-5 inches	---	
Tillage before seeding	---	DD 4-22-53 H 4-22-53	DF 4-22-53 H 4-22-53	
Seeding date	4-23-53	4-23-53	4-23-53	
Seeding rate	1 $\frac{27}{1}$ bpa	1 $\frac{27}{1}$ bpa	1 $\frac{27}{1}$ bpa	

Seeding manner	DD Press Drill	DD Press Drill	DD Press Drill	
Tillage after seeding	---	---	---	
Harvest date	8-12-53	8-12-53	9-12-53	
Total pounds	---	---	---	
Straw, pounds	---	---	---	
Grain, pounds	121	101	165	
Yields per acre	37.8 bpa	31.6 bpa	51.6 bpa	
Grade	Test Wt. 35.0#	Test Wt. 35.0#	Test Wt. 38.0#	

Rotation - Continuous Barley			Year - 1953	
	A	B	C	D
Crop	Barley, SP	Barley, FP	Barley, F	Fallow
Variety	Trebi	Trebi	Trebi	
Plowing date	4-22-53	8-19-52	---	
Plowing depth	4-5 inches	4-5 inches	---	
Tillage before seeding	---	DD 4-22-53 H 4-22-53	DF 4-22-53 H 4-22-53	

Seeding date	4-23-53	4-23-53	4-23-53	
Seeding rate	1 bpa	1 bpa	1 bpa	
Seeding manner	DD Press Drill	DD Press Drill	DD Press Drill	
Tillage after seeding	---	---	---	
Harvest date	8-14-53	8-14-53	8-14-53	
Total pounds	---	---	---	
Straw, pounds	---	---	---	
Grain, pounds	133	116	159	
Yields per acre	27.1 bpa	23.7 bpa	32.4 bpa	
Grade	Test Wt. 43.0#	Test Wt. 43.0#	Test Wt. 44.0#	

Rotation - Continuous Corn			Year - 1953	
	A	B	C	D
Crop	Corn, SP	Corn, FP	Corn, F.	Fallow
Variety	Nodakhybrid 301	Nodakhybrid 301	Nodakhybrid 301	
Plowing date	5-26-53	8-19-52	5-26-53	
Plowing depth	4-5 inches	4-5 inches	4-5 inches	

Tillage before seeding	H 6-1-53	H 6-1-53	H 6-1-53	
Seeding date	6-1-53	6-1-53	6-1-53	
Seeding rate	8# per acre	8# per acre	8# per acre	
Seeding manner	2 Row Planter	2 Row Planter	2 Row Planter	
Tillage after seeding	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	H 6-10-53 Cult. 7-1-53, 7-10-53, 7-24-53	
Harvest date	9-8-53	9-8-53	9-8-53	
Total pounds	8,900 # silage	7,100 # silage	9,600 # silage	
Straw, pounds	---	---	---	
Grain, pounds	80	50	50	
Yields per acre	22.9 bpa	14.3 bpa	14.3 bpa	
Grade	No. 1	No. 1	No. 1	

[Back to 1953 Research Reports Table of Contents](#)

[Back to Research Reports](#)

[Back to Dickinson Research Extension Center \(http://www.ag.ndsu.nodak.edu/dickinso/\)](http://www.ag.ndsu.nodak.edu/dickinso/)

[Email: drec@ndsuent.nodak.edu](mailto:drec@ndsuent.nodak.edu)