

# ROTATION SHEETS

## ROTATION AND TILLAGE EXPERIMENTS

### MAIN FIELD - 1954

Project - Rotation and Tillage Trials

Rotation - 1 - Main Field		Year - 1954	
	A	B	C
Crop	Wheat DC	Oats FP	Corn FP
Variety	Pilot	Gopher	Nodak 301
Plowing date		9-6-53	9-6-53
Plowing depth		4 - 5 inches	4 - 5 inches
Tillage before seeding	DD 4-20-54	DD 4-20-54	DD 5-18-54
Seeding date	4-22-54	4-23-54	5-19-54
Seeding rate	1 bu. per acre	1 ½ bu. per acre	8 lb. per acre
Seeding manner	DD press drill	DD press drill	2-horse planter
Tillage after seeding			Necessary cultivation to control weeds
Harvest date	8-9-54	7-30-54	9-8-54, 11-19-54
Total pounds			6200# silage per acre
Straw, pounds			
Grain, pounds	47	55	15
Yields per acre	7.8 bpa	17.5 b.p.a.	3.5 b.p.a.

Grade	Test Wt. 53.0	Test Wt. 34.0	No. 2
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Rotation - 2 - Main Field		Year - 1954	
	A	B	C
Crop	Wheat SP	Oats SP	Corn SP
Variety	Pilot	Gopher	Nodak 301
Plowing date	4-20-54	4-20-54	5-18-54
Plowing depth	4 - 5 inches	4 - 5 inches	4 - 5 inches
Tillage before seeding			
Seeding date	4-22-54	4-23-54	5-19-54
Seeding rate	1 bu. per acre	1 ½ bu. per acre	8 lb. per acre
Seeding manner	DD press drill	DD press drill	2-horse planter
Tillage after seeding			Necessary cultivation to control weeds
Harvest date	8-9-54	7-30-54	9-8-54, 11-19-54
Total pounds			
Straw, pounds			

Grain, pounds	56	102	67
Yields per acre	9.3 b.p.a.	31.9 b.p.a.	16.0 b.p.a.
Grade	Test Wt. 53.0	Test Wt. 35.5	No. 2

<b>Rotation - 3 - Main Field</b>		<b>Year - 1954</b>	
	A	B	C
Crop	Wheat FP	Oats FP	Corn FP
Variety	Pilot	Gopher	Nodak 301
Plowing date	9-7-53	9-6-53	9-6-53
Plowing depth	4 - 5 inches	4 - 5 inches	4 - 5 inches
Tillage before seeding	DD 4-20-54	DD 4-20-54	DD 5-18-54
Seeding date	4-22-54	4-23-54	5-19-54
Seeding rate	1 bu. per acre	1 ½ bu. per acre	8 lb. per acre
Seeding manner	DD press drill	DD press drill	2-horse planter
Tillage after seeding			Necessary cultivation to control weeds.

Harvest date	8-9-54	7-30-54	9-8-54, 11-19-54
Total pounds			7800# silage per acre
Straw, pounds			
Grain, pounds	48	48	20
Yields per acre	8.0 b.p.a.	15.0 b.p.a.	4.7 b.p.a.
Grade	Test Wt. 54.0	Test Wt. 32.5	No. 2

<b>Rotation - 4 - Main Field</b>	<b>Year - 1954</b>		
	A	B	C
Crop	Oats DC	Wheat FP	Corn FP
Variety	Gopher	Pilot	Nodak 301
Plowing date		9-6-53	9-6-53
Plowing depth		4 - 5 inches	4 - 5 inches
Tillage before seeding	DD 4-20-54	DD 4-20-54	DD 5-18-54
Seeding date	4-23-54	4-22-54	5-19-54
Seeding rate	1 ½ bu. per acre	1 bu. per acre	8 lb. per acre

Seeding manner	DD press drill	DD press drill	2-horse planter
Tillage after seeding			Necessary cultivation to control weeds.
Harvest date	7-3-54	8-9-54	9-8-54, 11-19-54
Total pounds			7000# silage per acre
Straw, pounds			
Grain, pounds	75	37	30
Yields per acre	23.4 b.p.a.	6.2 b.p.a.	7.1 b.p.a.
Grade	Test Wt. 35.0	Test Wt. 54.0	No. 2

<b>Rotation - 5 - Main Field</b>	<b>Year - 1954</b>		
	A	B	C
Crop	Wheat F	Oats FP	Fallow
Variety	Pilot	Gopher	
Plowing date		9-6-53	
Plowing			

Plowing depth		4 - 5 inches	
Tillage before seeding	DD 4-20-54	DD 4-20-54	
Seeding date	4-22-54	4-23-54	
Seeding rate	1 bu. per acre	1 ½ bu. per acre	
Seeding manner	DD press drill	DD press drill	
Tillage after seeding			
Harvest date	8-9-54	7-30-54	
Total pounds			
Straw, pounds			
Grain, pounds	51	54	
Yields per acre	8.5 b.p.a.	16.9 b.p.a.	
Grade	Test Wt. 52.0	Test Wt. 33.0	

<b>Rotation - 6 - Main Field</b>	<b>Year - 1954</b>		
	A	B	C

Crop	Barley DC	Oats FP	Corn FP
Variety	Trebi	Gopher	Nodak 301
Plowing date		9-6-53	9-6-53
Plowing depth		4 - 5 inches	4 - 5 inches
Tillage before seeding	DD 4-20-54	DD 4-20-54	DD 5-18-54
Seeding date	4-22-54	4-23-54	5-19-54
Seeding rate	5 pecks per acre	1 ½ bu. per acre	8 lb. per acre
Seeding manner	DD press drill	DD press drill	2-horse planter
Tillage after seeding			Necessary cultivation to control weeds.
Harvest date	8-3-54	7-30-54	9-8-54, 11-19-54
Total pounds			8800# silage per acre
Straw, pounds			
Grain, pounds	76	72	14
Yields per acre	15.5 b.p.a.	22.5 b.p.a.	3.3 b.p.a.
Grade	Test Wt. 37.0	Test WT. 36.0	No. 2

		21", Fair but slightly uneven.	
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Rotation - 7 - Main Field		Year - 1954	
	A	B	C
Crop	Oats SP	Barley SP	Corn SP
Variety	Gopher	Trebi	Nodak 301
Plowing date	4-20-54	4-20-54	5-18-54
Plowing depth	4 - 5 inches	4 - 5 inches	4 - 5 inches
Tillage before seeding			
Seeding date	4-23-54	4-22-54	5-19-54
Seeding rate	1 ½ bu. per acre	5 pecks per acre	8 lb. per acre
Seeding manner	DD press drill	DD press drill	DD press drill
Tillage after seeding			Necessary cultivation to control weeds.
Harvest date	7-30-54	8-3-54	9-8-54, 11-19-54
Total pounds			11,000# silage p.a.

Straw, pounds			
Grain, pounds	82	90	65
Yields per acre	25.6 b.p.a.	18.4 b.p.a.	15.3 b.p.a.
Grade	Test Wt. 33.5	Test Wt. 37.0	No. 2

<b>Rotation - 8 - Main Field</b>		<b>Year - 1954</b>	
	A	B	C
Crop	Oats F	Wheat FP	Fallow
Variety	Gopher	Pilot	
Plowing date		9-6-53	
Plowing depth		4 - 5 inches	
Tillage before seeding	D.F. 4-20-54	DD 4-20-54	
Seeding date	4-23-54	4-22-54	
Seeding rate	1 ½ bu. per acre	1 bu. per acre	
Seeding manner	DD press drill	DD press drill	
Tillage after seeding			

Harvest date	7-30-54	8-9-54	
Total pounds			
Straw, pounds			
Grain, pounds	102	32	
Yields per acre	31.9 b.p.a.	5.3 b.p.a.	
Grade	Test Wt. 35.0	Test Wt. 53.0	

<b>Rotation - 9 - Main Field</b>		<b>Year - 1954</b>	
	A	B	C
Crop	Oats, SP	Wheat, Sp	Corn, SP
Variety	Gopher	Pilot	Nodak 301
Plowing date	4-20-54	4-20-54	5-19-54
Plowing depth	4 - 5 inches	4 - 5 inches	4 - 5 inches
Tillage before seeding			
Seeding date	4-23-54	4-22-54	5-19-54
Seeding rate	1 ½ bu. per acre	1 bu. per acre	8 lb. per acre
Seeding manner	DD press drill	DD press drill	2-horse planter

Tillage after seeding			Necessary cultivation to control weeds.
Harvest date	7-30-54	8-9-54	9-8-54, 11-19-54
Total pounds			8800# silage p.a.
Straw, pounds			
Grain, pounds	82	52	58
Yields per acre	25.6 b.p.a.	8.7 b.p.a.	13.6 b.p.a.
Grade	Test Wt. 34.0	Test Wt. 53.5	No. 2

Rotation - 10-Main Field			Year - 1954		
	A	B	C	D	E
Crop	Cr. Wheat	Oats FP	Corn SP	Wheat DC Cr. Wheat	Cr. Wheat
Variety	Standard	Gopher	Nodak 301	Pilot	Standard
Plowing date		9-6-53	5-18-54		
Plowing depth		4 - 5 inches	4 - 5 inches		
Tillage					

before seeding		DD 4-20-54		DD 4-20-54	
Seeding date	1952	4-23-54	5-19-54	4-22-54	1953
Seeding rate		1 ½ b.p.a.	8 lb. per acre	1 bu. per acre	
Seeding manner		DD press drill	2-hrse. planter	DD press drill	
Tillage after seeding			Necessary cultivation to control weeds.		
Harvest date	6-28-54	7-30-54	9-8-54, 11-19-54	8-9-54	6-28-54
Total pounds	105		14,600# silage per acre		165
Straw, pounds					
Grain, pounds		82	84	70	
Yields per acre	1050 lbs.	25.6 b.p.a.	19.8 b.p.a.	11.7 b.p.a.	1650 lbs.
Grade	Good	Test Wt. 36.0	No. 2	Test Wt. 52.0	Good

Rotation - 11 - Main Field			Year - 1954		
	A	B	C	D	E
Crop	S. Clover	Oats, SP	Corn, Sp	Wheat, DC	S. Clover
Variety	YB S. Clover	Gopher	Nodak 301	Pilot	YB S. Clover
Plowing date		4-20-54	5-18-54		
Plowing depth		4 - 5 inches	4 -5 inches		
Tillage before seeding				DD 4-20-54	
Seeding date	1953	4-23-54	5-19-54	4-22-54	4-23-54
Seeding rate	10 lbs/acre	1 ½ b.p.a.	8 lbs/per acre	1 b.p.a.	8 lbs/acre
Seeding manner	DD press drill	DD press drill	2-horse planter	DD press drill	DD press drill
Tillage after seeding			Necessary cultivation to control weeds.		
Harvest date	6-28-54	7-30-54		8-9-54	
Total pounds	110		9900# silage per acre		
Stover					

Straw, pounds					
Grain, pounds		79	69	44	
Yields per acre	1100 lbs.	24.7 b.p.a.	16.2 b.p.a.	7.3 b.p.a.	
Grade	Good	Test Wt. 29.0	No. 2	Test Wt. 52.0	
					Year of establishment for 11 E.

Rotation - 12 - Main Field				Year - 1954		
	A	B	C	D	E	F
Crop	Corn SP	Wheat DC Cr. Wheat	Cr. Wheat	Cr. Wheat	Cr. Wheat	Oats FP
Variety	Nodak 301	Pilot	Standard	Standard	Standard	Gopher
Plowing date	5-18-54					9-6-53
Plowing depth	4 - 5 inches					4 - 5 inches
Tillage before seeding		DD 4-20- 54				DD 4-20-54

Seeding date	5-19-54	4-22-54	1953	1952	1951	4-23-54
Seeding rate	8 lb/acre	1 bu./acre				1 ½ bu./acre
Seeding manner	2 row planter	DD press drill				DD press drill
Tillage after seeding	Necessary cultivation to control weeds					
Harvest date	9-8-54 11-19-54	8-9-54	6-28-54	6-28-54	6-28-54	7-30-54
Total pounds	11,400# silage per acre		90	105	75	
Straw, pounds						
Grain, pounds	56	67				76
Yields per acre	13.2	11.2 b.p.a.	900 lbs.	1050 lbs.	750 lbs.	23.8 b.p.a.
Grade	No. 2	Test Wt. 54.0	Good	Good	Good	Test Wt. 33.0

Rotation - 14 - Main Field			Year - 1954	
	A	B	C	D
Crop	Corn, SP	Wheat DC S. Clover	S. Clover	Oats, GM
Variety	Nodak 301	Pilot YB S. Clover	YB S. Clover	Gopher
Plowing date	5-18-54			
Plowing depth	4 - 5 inches			
Tillage before seeding		DD 4-20-54		DD 4-20-54
Seeding date	5-19-54	4-22-54		4-23-54
Seeding rate	8 lb. per acre	1 bu. per acre		1 ½ bu. per acre
Seeding, manner	2 Row Planter	DD press drill		DD press drill
Tillage after seeding	Necessary cultivation to control weeds.			
Harvest date	9-8-54, 11-19-54	8-9-54		7-30-54
Total pounds	12,200# silage			

Total pounds	per acre			
Straw, pounds				
Grain, pounds	57	60		120
Yields per acre	13.4 b.p.a.	10.0 b.p.a.		37.5 b.p.a.
Grade	No. 2	Test Wt. 55.0		Test Wt. 33.0

Rotation - 15 - Main Field			Year - 1954	
	A	B	C	D
Crop	Corn, SP	Wheat DC S. Clover	S. Clover, GM	Oats, GM
Variety	Nodak 301	Pilot YB S. Clover	YB S. Clover	Gopher
Plowing date	5-18-54			
Plowing depth	4-5 inches			
Tillage before seeding		DD 4-20-54		DD 4-20-54

Seeding date	5-19-54	4-23-54		4-22-54
Seeding rate	8 lb. per acre	1 ½ bu. per acre		1 bu. per acre
Seeding, manner	2 Row planter	DD press drill		DD press drill
Tillage after seeding	Necessary cultivation to control weeds			
Harvest date	9-8-54, 11-19-54	7-30-54		8-9-54
Total pounds	11,600# silage/acre			
Straw, pounds				
Grain, pounds	64	92		76
Yields per acre	15.1 b.p.a.	28.8 b.p.a.		12.7 b.p.a.
Grade	No. 2	Test wt. 30.0		Test Wt. 52.0

<b>Rotation - 16 - Main Field</b>			<b>Year - 1954</b>	
	A	B	C	D
		Wheat, DC		

Crop	Corn, SP	S. Clover	S. Clover	Oats, GM
Variety	Nodak 301	Pilot YB S. Clover	YB S. Clover	Gopher
Plowing date	5-18-54			
Plowing depth	4-5 inches			
Tillage before seeding		DD 4-20-54		DD 4-20-54
Seeding date	5-19-54	4-22-54		4-23-54
Seeding rate	8 lb. per acre	1 bu. per acre		1 ½ bu. per acre
Seeding, manner	2 Row Planter	DD press drill		DD press drill
Tillage after seeding	Necessary cultivation to control weeds			
Harvest date	9-18-54, 11-19-54	8-9-54		7-30-54
Total pounds	10,700# silage/acre			
Straw, pounds				

Grain, pounds	77	54		138
Yields per acre	18.1 b.p.a.	9.0 b.p.a.		43.1 b.p.a.
Grade	No. 2	Test Wt. 54.0		Test Wt. 35.0

Rotation - 17 - Main Field			Year - 1954	
	A	B	C	D
Crop	Corn , SP	Oats, DC S. Clover	S. Clover	Wheat, GM
Variety	Nodak 301	Gopher YB. S. Clover	YB. S. Clover	Pilot
Plowing date	5-18-54			
Plowing depth	4-5 inches			
Tillage before seeding		DD 4-20-54		DD 4-20-54
Seeding date	5-19-54	4-23-54		4-22-54
Seeding rate	8 lb. per acre	1 ½ bu. per acre		1 bu. per acre

Seeding, manner	2 Row Planter	DD Press Drill		DD Press Drill
Tillage after seeding	Necessary cultivation to control weeds			
Harvest date	9-8-54, 11-19-54	7-30-54		8-9-54
Total pounds	10,600# silage/acre			
Straw, pounds				
Grain, pounds	72	89		69
Yields per acre	16.9 b.p.a.	27.8 b.p.a.		11.5 b.p.a.
Grade	No. 2	Test Wt. 33.5		Test Wt. 52.0

Rotation - 18 - Main Field		Year - 1954
	A	B
Crop	Oats, DC	Corn, SP
Variety	Gopher	Nodak 301
Plowing date		5-18-54
Plowing		

Plowing depth		4-5 inches
Tillage before seeding	DD 4-20-54	
Seeding date	4-23-54	5-19-54
Seeding rate	1 ½ bu. per acre	8 lb. per acre
Seeding manner	DD Press Drill	2 Row Planter
Tillage after seeding		Necessary cultivation to control weeds
Harvest date	7-30-54	9-8-54, 11-19-54
Total pounds		10,400# silage per acre
Straw, pounds		
Grain, pounds	84	56
Yields per acre	26.3 b.p.a	13.2 b.p.a.
Grade	Test Wt. 37.0	No. 2

Rotation - 18 - Main Field		Year - 1954
	C	D
Crop	Corn, SP Fer	Wheat DC Fer
Variety	Nodak 3-1	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 row planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54, 11-19-54	8-9-54
Total pounds	12,800# silage per acre	
Straw, pounds		

Grain, pounds	56	62
Yields per acre	13.2 b.p.a.	10.3 b.p.a.
Grade	No. 2	Test Wt. 55.0
Year of uniform cropping. Do not include in future averages.		

<b>Rotation - 19 - Main Field</b>		<b>Year - 1954</b>
	A	B
Crop	Corn, SP CK	Wheat, DC CK
Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding	2 Row Planter	DD press drill

manner	2 ROW FINDER	DD PRESS WITH
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54, 11-19-54	8-9-54
Total pounds	11,200# silage per acre	
Straw, pounds		
Grain, pounds	61	66
Yields per acre	14.4 bu. per acre	11.0 bu. per acre
Grade	No. 2	Test Wt. 57.0
Year of uniform cropping. Do not include in future averages.		

Rotation - 19 Main Field		Year - 1954
	C	D
Crop	Corn SP	Wheat DC Fer
Variety	Nodak 301	Pilot
Plowing date	5-18-54	

Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54, 11-19-54	8-9-54
Total pounds	10,600# silage per acre	
Straw, pounds		
Grain, pounds	60	82
Yields per acre	14.4 bu. per acre	13.7 bu. per acre
Grade	No. 2	Test Wt. 53.0
Year of uniform cropping. Do not include in future		

averages.

Rotation - 31 - Main Field			Year - 1954	
	A	B	C	D
Crop	Corn, SP	Wheat, DC S. Clover	S. Clover	Oats, GM
Variety	Nodak 301	Pilot YB S. Clover	YB S. Clover	Gopher
Plowing date	5-18-54			
Plowing depth	4-5 inches			
Tillage before seeding		DD 4-20-54		DD 4-20-54
Seeding date	5-19-54	4-22-54		4-23-54
Seeding rate	3 lb. per acre	1 bu. per acre		1 ½ bu. per acre
Seeding, manner	2 Row Planter	DD press drill		DD press drill
Tillage after seeding	Necessary cultivation to control weeds			
Harvest date	9-8-54, 11-19-54	8-9-54		7-30-54
Total pounds	11,400# silage per acre			
Straw, pounds				

Grain, pounds	61	45		107
Yields per acre	14.4 b.p.a.	7.5 b.p.a.		33.4 b.p.a.
Grade	No. 2	Test Wt. 51.0		Test Wt. 34.0

Rotation - 32 - Main Field			Year - 1954	
	A	B	C	D
Crop	Corn SP	Oats DC S. Clover	S. Clover	Wheat GM
Variety	Nodak 301	Gopher YB S. Clover	YB S. Clover	Pilot
Plowing date	5-18-54			
Plowing depth	4-5 inches			
Tillage before seeding		DD 4-20-54		DD 4-20-54
Seeding date	5-19-54	4-23-54		4-22-54
Seeding rate	8 lb. per acre	1 ½ bu. per acre		1 bu. per acre
Seeding, manner	2 Row planter	DD press drill		DD press drill
Tillage after seeding	Necessary cultivation to control weeds			
Harvest date	9-8-54, 11-19-54	7-30-54		8-9-54
Total pounds	11,300# silage/acre			

Straw, pounds				
Grain, pounds	56	84		70
Yields per acre	13.2 b.p.a.	26.3 b.p.a.		11.7 b.p.a.
Grade	No. 2	Test Wt. 31.0		Test Wt. 52.0

Rotation - 42 - Main Field				Year - 1954		
	A	B	C	D	E	F
Crop	Alfalfa	Alfalfa	Alfalfa	Oats, FP	Corn, SP	Wheat, DC
Variety	Ladak	Ladak	Ladak	Gopher	Nodak 301	Pilot
Plowing date				9-6-53	5-18-54	
Plowing depth				4-5 inches	4-5 inches	
Tillage before seeding				DD 4-20-54		DD 4-20-54
Seeding date	1954	1953	1952	4-23-54	5-19-54	4-22-54
Seeding rate	10 lbs/acre	10 lbs/acre	10 lbs/acre	1 ½ bu/acre	8 lbs/acre	1 bu./acre
Seeding manner	DD Press Drill			DD Press Drill	2 Row Plant	DD Press Drill
Tillage after seeding					Necessary Cultivation to control weeds	
Harvest date		6-28-54	6-28-54	7-30-54	9-8-54 11-19-54	8-9-54

Total pounds		20	160		12,500# Silage/Acre	
Straw, pounds						
Grain, pounds				53	66	62
Yields per acre		200 lbs.	1600 lbs.	16.6 b.p.a.	15.5 b.p.a.	10.3 b.p.a.
Grade		Good	Good	Test Wt. 31.0	No. 2	Test Wt. 51.0
Year of establishment for 42 A.						

Rotation - 61 - Main Field		Year - 1954	
	A	B	C
Crop	Oats, SP	Fallow	Wheat, F
Variety	Gopher		Pilot
Plowing date	4-20-54		
Plowing depth	4-5 inches		
Tillage before seeding			DF 4-20-54
Seeding date	4-23-54		4-22-54
Seeding rate	1 ½ bu. per acre		1 bu. per acre
Seeding manner	DD press drill		DD press drill
Tillage after seeding			
Harvest date	7-30-54		8-9-54
Total pounds			

Straw, pounds			
Grain, pounds	110		61
Yields per acre	34.4 b.p.a.		10.2 b.p.a.
Grade	Test Wt. 33.0		Test Wt. 51.0

Rotation - 62 - Main Field		Year - 1954	
	A	B	C
Crop	Oats, SP	Corn, SP, Manured	Wheat, FP
Variety	Gopher	Nodak 301	Pilot
Plowing date	4-20-54	5-18-54	9-6-53
Plowing depth	4-5 inches	4-5 inches	4-5 inches
Tillage before seeding			DD 4-20-54
Seeding date	4-23-54	5-19-54	4-22-54
Seeding rate	1 ½ bu. per acre	8 lb. per acre	1 bu. per acre
Seeding manner	DD press drill	2 Row Planter	DD press drill
Tillage after seeding		Necessary Cultivation to control weeds	
Harvest date	7-30-54	9-8-54, 11-19-54	8-9-54
Total pounds		12,200# silage per acre	
Straw, pounds			
Grain, pounds	110	43	75
Yields per acre	34.4 b.p.a.	10.1 b.p.a.	12.5 b.p.a.

Grade	Test Wt. 30.5	No. 2	Test Wt. 51.0
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Rotation - 63 - Main Field		Year - 1954	
	A	B	C
Crop	Oats, SP	Fallow	Wheat, F
Variety	Gopher		Pilot
Plowing date	4-20-54		
Plowing depth	4-5 inches		
Tillage before seeding			DF 4-20-54
Seeding date	4-23-54		4-22-54
Seeding rate	1 ½ bu. per acre		1bu. per acre
Seeding manner	DD press drill		DD press drill
Tillage after seeding			
Harvest date	7-30-54		8-9-54
Total pounds			
Straw, pounds			
Grain, pounds	100		47
Yields per acre	31.3 b.p.a.		7.8 b.p.a.
Grade	Test Wt. 33.5		Test Wt. 52.0

Rotation - 78 - Main Field		Year - 1954
	C'	D'
Crop	Corn, SP	Wheat DC Fer
Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54	8-9-54
Total pounds	13,200# silage per acre	
Straw, pounds		
Grain, pounds		78
Yields per acre		13.0 b.p.a.
Grade		Test Wt. 52.0
Year of uniform cropping. Do not include in future averages.		

Rotation - 40 - Main Field		Year - 1954
	A	B
Crop	Corn SP	Wheat DC Fer
Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54	8-9-54
Total pounds	8800# silage per acre	
Straw, pounds		
Grain, pounds		56
Yields per acre		9.3 b.p.a.
Grade		Test Wt. 52.0
Year of uniform cropping. Do not include in future averages.		

Rotation - 49 - Main Field		Year - 1954
	A	B
Crop	Corn SP-Ck.	Wheat DC-Ck.
Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54	8-9-54
Total pounds	10,400# silage per acre	
Straw, pounds		
Grain, pounds		86
Yields per acre		14.3 b.p.a.
Grade		Test Wt. 51.0
Year of uniform cropping. Do not include in future averages.		

Rotation - 79 - Main Field	Year - 1954
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	A	B
Crop	Corn SP	Wheat DC Fer
Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54	8-9-54
Total pounds	9800# silage per acre	
Straw, pounds		
Grain, pounds		60
Yields per acre		10.0 bu. per acre
Grade		Test Wt. 52.0
Year of uniform cropping. Do not include in future averages.		

<b>Rotation - 242 - Main Field</b>		<b>Year - 1954</b>
	A	B

Crop	Corn Sp Fer	Wheat Dc Fer
Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2 Row Planter	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	9-8-54	8-9-54
Total pounds	8200# silage per acre	
Straw, pounds		
Grain, pounds		57
Yields per acre		9.5 bu. per acre
Grade		Test wt. 55.0
Year of uniform cropping. Do not include in future averages.		

<b>Rotation - 245 - Main Field</b>		<b>Year - 1954</b>
	A	B
Crop	Corn SP CK.	Wheat DC CK.

Variety	Nodak 301	Pilot
Plowing date	5-18-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-19-54	4-22-54
Seeding rate	8 lb. per acre	1 bu. per acre
Seeding manner	2-horse planter	DD press drill
Tillage after seeding	Necessary Cultivation to control weeds.	
Harvest date	9-18-54	8-9-54
Total pounds	7200# silage per acre	
Straw, pounds		
Grain, pounds		54
Yields per acre		9.0 bu. per acre
Grade		Test Wt. 53.0
Year of uniform cropping. Do not include in future averages.		

<b>Rotation - 414 - Main Field</b>		<b>Year - 1954</b>
	A	B
Crop	Potatoes F	Fallow
Variety	Cobbler	

Plowing date		
Plowing depth		
Tillage before seeding	DF 5-4-54	
Seeding date	5-5-54	
Seeding rate	10 b.p.a.	
Seeding manner	Hand planted	
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	10-5-54	
Total pounds	490	
Straw, pounds		
Grain, pounds		
Yields per acre	63.3 b.p.a. U.S. No. 1 18.3 b.p.a. Culls	
Grade		

<b>Rotation - 415 - Main Field</b>		<b>Year - 1954</b>
	A	B
Crop	Potatoes SP	Wheat DD
Variety	Cobbler	Pilot

Plowing date	5-4-54	
Plowing depth	4-5 inches	
Tillage before seeding		DD 4-20-54
Seeding date	5-5-54	4-22-54
Seeding rate	10 b.p.a.	1 bu. per acre
Seeding manner	Hand Planted	DD press drill
Tillage after seeding	Necessary cultivation to control weeds	
Harvest date	10-5-54	8-9-54
Total pounds	410	
Straw, pounds		
Grain, pounds		70
Yields per acre	50.8 b.p.a. U.S. No. 1 17.5 b.p.a. Culls	11.7 bu. per acre
Grade		Test Wt. 53.5

Rotation - Wheat - Main Field			Year - 1954	
	A	B	C	D
Crop	Wheat SP	Wheat FP	Fallow	Wheat F
Variety	Pilot	Pilot		Pilot
Plowing date	4-20-54	9-6-53		

Plowing depth	4-5 inches	4-5 inches		
Tillage before seeding		DD 4-20-54		DF 4-20-54
Seeding date	4-22-54	4-22-54		4-22-54
Seeding rate	1 bu. per acre	1 bu. per acre		1 bu. per acre
Seeding, manner	DD Press Drill	DD Press Drill		DD Press Drill
Tillage after seeding				
Harvest date	8-9-54	8-9-54		8-9-54
Total pounds				
Straw, pounds				
Grain, pounds	54	27		62
Yields per acre	9.0 bu. per acre	4.5 bu. per acre		10.3 bu. per acre
Grade	Test Wt. 54.0	Test Wt. 53.0		Test Wt. 53.0

Rotation - Oats - Main Field			Year - 1954	
	A	B	C	D
Crop	Oats SP	Oats FP	Fallow	Oats F
Variety	Gopher	Gopher		Gopher
Plowing date	4-20-54	9-6-53		
Plowing depth	4-5 inches	4-5 inches		

Tillage before seeding		DD 4-20-54		DF 4-20-54
Seeding date	4-23-54	4-23-54		4-23-54
Seeding rate	1 ½ bu. per acre	1 ½ bu. per acre		1 ½ bu. per acre
Seeding, manner	DD Press Drill	DD Press Drill		DD Press Drill
Tillage after seeding				
Harvest date	7-30-54	7-30-54		7-30-54
Total pounds				
Straw, pounds				
Grain, pounds	81	42		103
Yields per acre	25.3 b.p.a	13.1 b.p.a.		32.2 b.p.a.
Grade	Test Wt. 36.5	Test Wt. 31.0		Test Wt. 33.0

Rotation - Barley - Main Field			Year - 1954	
	A	B	C	D
Crop	Barley SP	Barley FP	Fallow	Barley F
Variety	Trebi	Trebi		Trebi
Plowing date	4-20-54	9-6-53		
Plowing depth	4-5 inches	4-5 inches		
Tillage before seeding		DD 4-20-54		DF 4-20-54

Seeding date	4-22-54	4-22-54		4-22-54
Seeding rate	5 Pecks	5 Pecks		5 Pecks
Seeding, manner	DD Press Drill	DD Press Drill		DD Press Drill
Tillage after seeding				
Harvest date	8-3-54	8-3-54		8-3-54
Total pounds				
Straw, pounds				
Grain, pounds	78	32		76
Yields per acre	15.9 bu, per acre	6.5 bu. per acre		15.5 bu. per acre
Grade	Test Wt. 37.0	Test Wt. 37.0		Test Wt. 36.0

Rotation - Corn - Main Field			Year - 1954	
	A	B	C	D
Crop	Corn SP	Corn FP	Fallow	Corn F
Variety	Nodak 301	Nodak 301		Nodak 301
Plowing date	5-18-54	9-7-53		
Plowing depth	4.5 inches	4-5 inches		
Tillage before seeding		DD 5-18-54		DF 5-18-54
Seeding date	5-19-54	5-19-54		5-19-54

Seeding rate	8 lb. per acre	8 lb. per acre		8 lb. per acre
Seeding, manner	2 Row Planter	2 Row Planter		2 Row Planter
Tillage after seeding	Necessary cultivation to control weeds	Necessary cultivation to control weeds		Necessary cultivation to control weeds
Harvest date	9-8-54, 11-19-54	9-8-54, 11-19-54		9-8-54, 11-19-54
Total pounds	5200# Silage/acre	7800# Silage/acre		11,100# Silage/acre
Straw, pounds				
Grain, pounds	18	14		51
Yields per acre	4.2 bu. per acre	3.3 bu. per acre		12.0 bu. per acre
Grade	No. 2	No. 2		No. 2