


**ROTATION SHEETS**  
**ROTATION AND TILLAGE EXPERIMENTS**  
**FIELD "N" - 1953**

PROJECT - Rotation and Tillage Trials


Rotation - 18-N			Year - 1953	
	A	B	C	D
Crop	Wheat. F	Corn, SP	Oats, DC	Fallow
Variety	Pilot	Nodakhybrid 301	Gopher	
Plowing date	---	5-26-53	---	
Plowing depth	---	4-5 inches	---	
Tillage before seeding	DF 5-6-53	H 6-1-53	---	
Seeding date	5-7-53	6-1-53	4-23-53	
Seeding rate	1 bpa	8# per acre	1 $\frac{27}{r}$ bpa	
Seeding manner	DD Press Drill	2 Row Planter	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	8-12-53	
Total pounds	---	12,900 # silage per ac.	---	
Straw, pounds	---	---	---	
Grain, pounds	98	175	180	
Yields per acre	16.3 bpa	50.0 bpa	56.3 bpa	
Grade	Test Wt. 56.0#	No. 1	Test Wt. 35.0#	

Rotation - 19-N			Year - 1953	
	A	B	C	D
Crop	Oats F	Corn, SP	Wheat DC	Fallow
Variety	Gopher	Nodakhybrid 301	Pilot	
Plowing date	---	5-26-53	---	
Plowing depth	---	4-5 inches	---	
Tillage before seeding	DF 5-6-53	H 6-1-53	DD 5-6-53	
Seeding date	5-7-53	6-1-53	5-7-53	
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	8-12-53	9-8-53	8-13-53	
Total pounds	---	9,900 # silage per acre	---	
Straw, pounds	---	---	---	
Grain, pounds	102	130	81	
Yields per acre	31.9 bpa	37.1 bpa	13.5 bpa	
Grade	Test Wt. 34.0#	No. 1	Test Wt. 56.0#	

Rotation - 68-N		Year - 1953	
	A	B	C
Crop	Oats, SP	Corn, SP, Manured	Wheat, DC
Variety	Gopher	Nodakhybrid 301	Pilot
Plowing date	8-18-52	5-26-53	---
Plowing depth	4-5 inches	4-5 inches	---
Tillage before seeding	DD 5-6-53	H 6-1-53	DD 5-6-53

Seeding date	5-7-53	6-1-53	5-7-53
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	8-12-53	9-8-53	8-13-53
Total pounds	---	13,200# silage per acre	---
Straw, pounds	---	---	---
Grain pounds	137	160	126
Yields per acre	42.8 bpa	45.7 bpa	21.0 bpa
Grade	Test Wt. 35.0#	No. 1	Test Wt. 57.0#

	Rotation - 71-N		Year - 1953	
	A	B	C	D
Crop	Wheat, DC	Fallow, Manured	Oats, F	Corn, SP
Variety	Pilot		Gopher	Nodakhybrid 301
Plowing date	---		---	5-26-53
Plowing depth	---		---	4-5 inches

Tillage before seeding	DD 5-6-53		DF 5-6-53	H 6-1-53
Seeding date	5-7-53		5-7-53	6-1-53
Seeding rate	1 bpa		1 $\frac{27}{11}$ 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		8-12-53	9-8-53
Total pounds	---		---	13,400# silage per ac.
Straw, pounds	---		---	---
Grain, pounds	151		189	165
Yields per acre	25.2 bpa		59.1 bpa	47.1 bpa
Grade	Test Wt. 55.0#		Test Wt. 35.0#	No. 1

	Rotation - 72-N		Year - 1953	
	A	B	C	D
Crop	Oats, DC	Fallow, Manured	Wheat, F	Corn, SP

Variety	Gopher		Pilot	Nodakhybrid 301
Plowing date	---		---	5-26-53
Plowing depth	---		---	4-5 inches
Tillage before seeding	DD 5-6-53		DF 5-6-53	H 6-1-53
Seeding date	5-7-53		5-7-53	6-1-53
Seeding rate	1 $\frac{27}{21}$ bpa		1 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	8-12-53		8-13-53	9-8-53
Total pounds	---		---	12,200# silage per acre
Straw, pounds	---		---	---
Grain, pounds	200		164	150
Yields per acre	62.5 bpa		27.3 bpa	42.9 bpa
Grade	Test Wt. 37.0#		Test Wt. 56.0#	No. 1

Rotation - 224		Year - 1953
	A	B
Crop	Fallow, DF 5-1-53	Wheat, DF
Variety		Pilot
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-13-53
Total pounds		---
Straw, pounds		---
Grain, pounds		115
Yields per acre		19.2 bpa
Grade		Test Wt. 54.0#

Rotation - 225		Year - 1953
	A	B
Crop	Fallow, P 5-1-53	Wheat, P
Variety		Pilot
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-13-53
Total pounds		---
Straw, pounds		---
Grain, pounds		115
Yields per acre		19.2 bpa



Grade

Test Wt. 54.0#

Rotation - 226		Year- 1953
	A	B
Crop	Fallow, DF 5-15-53	Wheat, DF
Variety		Pilot
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-13-53
Total pounds		---
Straw, pounds		---
Grain, pounds		129

Yields per acre		21.5 bpa
Grade		Test Wt. 54.0#

Rotation - 227		Year - 1953
	A	B
Crop	Fallow, P 5-15-53	Wheat, P
Variety		Pilot
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-13-53
Total pounds		---
Straw, pounds		---

Grain, pounds		121
Yields per acre		20.2 bpa
Grade		Test Wt. 56.0#

Rotation - 228		Year- 1953
	A	B
Crop	Fallow, DF 6-1-53	Wheat, DF
Variety		Pilot
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-13-53

Total pounds		---
Straw, pounds		---
Grain, pounds		103
Yields per acre		17.2 bpa
Grade		Test Wt. 57.0#

Rotation - 252		Year - 1953
	A	B
Crop	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard
Plowing date		
Plowing depth		
Tillage before seeding		
Seeding date		
Seeding rate		
Seeding manner		
Tillage after seeding		

Harvest date		
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		
Grade		

Rotation - 258		Year - 1953
	A	B
Crop	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard
Plowing date		
Plowing depth		
Tillage before seeding		
Seeding date		
Seeding rate		
Seeding manner		

Tillage after seeding		
Harvest date		
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		
Grade		

Rotation - 416		Year - 1953	
	A	B	C
Crop	Crested Wheatgrass	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard	Standard
Plowing date			
Plowing depth			
Tillage before seeding			
Seeding date			
Seeding rate			

Seeding manner			
Tillage after seeding			
Harvest date			
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre			
Grade			

Rotation - 417		Year - 1953	
	A	B	C
Crop	Crested Wheatgrass	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard	Standard
Plowing date			
Plowing depth			
Tillage before seeding			
Seeding date			

Seeding rate			
Seeding manner			
Tillage after seeding			
Harvest date			
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre			
Grade			

Rotation - 418		Year - 1953	
	A	B	C
Crop	Crested Wheatgrass	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard	Standard
Plowing date			
Plowing depth			
tillage before seeding			



Seeding date			
Seeding rate			
Seeding manner			
Tillage after seeding			
Harvest date			
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre			
Grade			

Rotation - 419		Year - 1953	
	A	B	C
Crop	Crested Wheatgrass	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard	Standard
Plowing date			
Plowing depth			

Tillage before seeding			
Seeding date			
Seeding rate			
Seeding manner			
Tillage after seeding			
Harvest date			
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre			
Grade			

Rotation - 420		Year - 1953		
	A	B	C	D
Crop	Crested Wheatgrass	Crested Wheatgrass	Crested Wheatgrass	Crested Wheatgrass
Variety	Standard	Standard	Standard	Standard
Plowing date				

Plowing depth				
Tillage before seeding				
Seeding date				
Seeding rate				
Seeding manner				
Tillage after seeding				
Harvest date				
Total pounds				
Straw, pounds				
Grain, pounds				
Yields per acre				
Grade				

<b>Rotation - 431</b>		<b>Year - 1953</b>
	<b>A</b>	<b>B</b>
<b>Crop</b>	Crested Wheatgrass	Crested Wheatgrass

Variety	Standard	Standard
Plowing date		
Plowing depth		
Tillage before seeding		
Seeding date		
Seeding rate		
Seeding manner		
Tillage after seeding		
Harvest date		
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		
Grade		

<b>Rotation - 472</b>		<b>Year - 1953</b>
	<b>A</b>	<b>B</b>

Crop	Fallow	Durum, DF
Variety		Mindum
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest seeding		8-13-53
Total pounds		6
Straw, pounds		---
Grain, pounds		---
Yields per acre		1 bpa
Grade		Test Wt. 48.0#

Rotation - 473		Year - 1953
	A	B
Crop	Fallow	Wheat, DF
Variety		Pilot
Plowing date		---
Plowing depth		---
Tillage before seeding		DF 5-6-53
Seeding date		5-7-53
Seeding rate		1 bpa
Seeding manner		DD Press Drill
Tillage after seeding		---
Harvest date		8-13-53
Total pounds		---
Straw, pounds		---
Grain, pounds		108
Yields per acre		18.0 bpa
Grade		Test Wt. 55.0#

Rotation - ND-1			Year - 1953		
	A	B	C	D	E
Crop	Cr. Wheatgrass	Cr. Wheatgrass	Cr. Wheatgrass	Cr. Wheatgrass	Cr. Wheatgrass
Variety	Standard	Standard	Standard	Standard	Standard
Plowing date					
Plowing depth					
Tillage before seeding					
Seeding date					
Seeding rate					
Seeding manner					
Tillage after seeding					
Harvest date					
Total pounds					
Straw, pounds					
Grain, pounds					

Yields per acre					
Grade					

Rotation - 569		Year - 1953	
	A	B	C
Crop	Wheat, DD	Fallow	Wheat, F
Variety	Pilot		Pilot
Plowing date	---		---
Plowing depth	---		---
Tillage before seeding	DD 5-6-53		DF 5-6-53
Seeding date	5-7-53		5-7-53
Seeding rate	1 bpa		1 bpa
Seeding manner	DD Press Drill		DD Press Drill
Tillage after seeding	---		---
Harvest date	8-13-53		8-13-53
Total pounds	---		---
Straw, pounds	---		---



Grain, pounds	85		85
Yields per acre	14.2 bpa		14.2 bpa
Grade	Test Wt. 55.0#		Test Wt. 57.0#

Rotation - 579		Year - 1953	
	A	B	C
Crop	Fallow	Oats, F	Oats, DC
Variety		Gopher	Gopher
Plowing date		---	---
Plowing depth		---	---
Tillage before seeding		DF 5-6-53	DD 5-6-53
Seeding date		5-7-53	5-7-53
Seeding rate		1 $\frac{27}{11}$ bpa	1 $\frac{27}{11}$ bpa
Seeding manner		DD Press Drill	DD Press Drill
Tillage after seeding		---	---
Harvest date		8-12-53	8-12-53
Total pounds		---	---

Straw, pounds		---	---
Grain, pounds		159	140
Yields per acre		49.7 bpa	43.8 bpa
Grade		Test Wt. 35.0#	Test Wt. 35.0#

Rotation - 383-N		Year - 1953	
	A	B	B
Crop	Wheat, DD	Wheat, DD, Stubble burned	Wheat, SP
Variety	Pilot	Pilot	Pilot
Plowing date	---	---	5-6-53
Plowing depth	---	---	4-5 inches
Tillage before seeding	DD 5-6-53	DD 5-6-53	---
Seeding date	5-7-53	5-7-53	5-7-53
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	62	69	58
Yields per acre	10.3 bpa	11.5 bpa	9.7 bpa
Grade	Test Wt. 56.0#	Test Wt. 56.0#	Test Wt. 56.0#

Rotation - Continuous Wheat - N			Year - 1953	
	A'	B'	C'	D'
Crop	Wheat, SP	Wheat, FP	Fallow	Wheat, F
Variety	Pilot	Pilot		Pilot
Plowing date	5-6-53	8-18-52		---
Plowing depth	4-5 inches	4-5 inches		---
Tillage before seeding	---	DD 5-6-53		DF 5-6-53
Seeding date	5-7-53	5-7-53		5-7-53
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	40	49		100
Yields per acre	6.7 bpa	8.2 bpa		16.7 bpa
Grade	Test Wt. 53.0#	Test Wt. 53.0#		Test Wt. 51.0#

Rotation - Continuous Durum - N		Year - 1953		
	A	B	C	D
Crop	Durum, SP	Durum, FP	Fallow	Durum, F
Variety	Mindum	Mindum		Mindum
Plowing date	5-6-53	8-18-52		---
Plowing depth	4-5 inches	4-5 inches		---
Tillage before seeding	---	DD 5-6-53		DF 5-6-53
Seeding date	5-7-53	5-7-53		5-7-53
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	6	5		11
Yields per acre	60# per acre	50# per acre		110# per acre
Grade	Test Wt. 48.0#	Test Wt. 48#		Test Wt. 48.0#

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