

ROTATION SHEETS
ROTATION AND TILLAGE EXPERIMENTS
FIELD "N" - 1955

PROJECT - Rotation & Tillage Trials

Rotation - 18 Field N			Year - 1955	
	A	B	C	D
Crop	Crested Wheatgrass	Wheat OW	Wheat DD	Wheat SP
Variety		Lee	Lee	Lee
Plowing date				4-14
Plowing depth				4-5 inches
Tillage before seeding		OW 4-13	DD 4-13	
Seeding date		4-14	4-14	4-14
Seeding rate		1 bpa	1 bpa	1 bpa
Seeding manner		DD press drill	DD press drill	DD press drill
Tillage after seeding				

Harvest date		7-29	7-29	7-29
Total pounds				
Straw, pounds				
Grain, pounds				
Yields per acre		15.2 bpa	12.5 bpa	20.2 bpa
Grade		62.0 lbs/bu	62.0 lbs/bu	61.0 lbs/bu

Rotation - 19 Field N			Year - 1955	
	A	B	C	D
Crop	Crested Wheatgrass	Wheat OW	Wheat DD	Wheat SP
Variety		Lee	Lee	Lee
Plowing date				4-14
Plowing depth				4-5 inches
Tillage before seeding		OW 4-13	DD 4-13	
Seeding date		4-14	4-14	4-14
Seeding rate		1 bpa	1 bpa	1 bpa

Seeding manner		DD press drill	DD press drill	DD press drill
Tillage after seeding				
Harvest date		7-29	7-29	7-29
Total pounds				
Straw, pounds				
Grain, pounds				
Yield per acre		11.3 bpa	8.8 bpa	18.0 bpa
Grade		62.0 lbs/bu	61.5 lbs/bu	61.0 lbs/bu

Rotation - 68 Field N		Year - 1955	
	A	B	C
Crop	Wheat DC	Oats FP	Corn SP Manured
Variety	Lee	Palomino	N.Dak. 301
Plowing date		9-20-54	5-16
Plowing depth		4-5 inches	4-5 inches
Tillage before seeding	DD 4-13	DD 4-13	
Seeding date	4-14	4-15	5-17

Seeding rate	1 bpa	6 pecks per acre	8 lbs per acre
Seeding manner	DD press drill	DD press drill	2 horse planter
Tillage after seeding			necessary cultivation to control weeds
Harvest date	7-29	7-26	9-6, 10-21
Total pounds			6320 lbs. silage
Straw, pounds			
Grain, pounds			
Yields per acre	19.0 bpa	62.2 bpa	18.6 bpa
Grade	59.0 lbs/bu	37.0 lbs/bu	Good

Rotation - 71 Field N			Year - 1955	
	A	B	C	D
Crop	Oats F	Corn SP	Wheat DC	Fallow Manured
Variety	Palomino	N.Dak. 301	Lee	
Plowing date		5-16		
Plowing depth		4-5 inches		
Tillage before seeding	DF 4-13		DD 4-13	

Seeding date	4-15	5-17	4-14	
Seeding rate	6 pecks per acre	8 lbs per acre	1 bpa	
Seeding manner	DD press drill	2 horse planter	DD press drill	
Tillage after seeding		necessary cultivation to control weeds		
Harvest date	7-26	9-6, 10-21	7-29	
Total pounds		5480 lbs silage		
Straw, pounds				
Grain, pounds				
Yields per acre	71.3 bpa	29.3 bpa	17.0 bpa	
Grade	37.0 lbs/bu	Good	59.0 lbs/bu	

Rotation - 72 Field N		Year - 1955		
	A	B	C	D
Crop	Wheat F	Corn SP	Oats DC	Fallow Manured
Variety	Lee	N.Dak. 301	Palomino	
Plowing date		5-16		
Plowing depth		4-5 inches		

Tillage before seeding	DF 4-13		DD 4-13	
Seeding date	4-14	5-17	4-15	
Seeding rate	1 bpa	8 lbs per acre	6 pecks per acre	
Seeding manner	DD press drill	2 horse planter	DD press drill	
Tillage after seeding		necessary cultivation to control weeds		
Harvest date	7-29	9-6, 10-21	7-26	
Total pounds		6800 lbs silage		
Straw, pounds				
Grain, pounds				
Yields per acre	35.8 bpa	30.0 bpa	38.4 bpa	
Grade	56.5 lbs/bu	Good	37.0 lbs/bu	

Rotation - 224 Field N		Year - 1955
	A	B
Crop	Crested Wheatgrass	Wheat F
Variety	Standard	Lee

Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		15.8 bpa
Grade		55.0 lbs/bu

Rotation - 225 Field N		Year - 1955
	A	13B
Crop	Fallow P 5-1	Wheat

Variety		Lee
Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		22.3 bpa
Grade		53.0 lbs/bu

Rotation - 226 Field N	Year - 1955
------------------------	-------------

	A	B
Crop	Fallow DF 5-15	Wheat F
Variety		Lee
Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		19.8 bpa
Grade		54.0 lbs/bu

Rotation - 227 Field N		Year - 1955
	A	B
Crop	Fallow P 5-15	Wheat F
Variety		Lee
Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		24.2 bpa
Grade		53.5 lbs/bu

Rotation - 228 Field N		Year - 1955
	A	B
Crop	Fallow DF 6-1	Wheat F
Variety		Lee
Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		
Straw, pounds		
Grain, pounds		
Yields per acre		18.0 bpa

Grade		51.5 lbs/bu
-------	--	-------------

Rotation - 472 Field N		Year - 1955
	E	F
Crop	DF Fallow	Durum F
Variety		Sentry
Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		
Straw, pounds		

Grain, pounds		
Yields per acre		20.0 bpa
Grade		63.0 lbs/bu

Rotation - 473 Field N		Year - 1955
	E'	F'
Crop	DF Fallow	Wheat F
Variety		Lee
Plowing date		
Plowing depth		
Tillage before seeding		DF 4-13
Seeding date		4-14
Seeding rate		1 bpa
Seeding manner		DD press drill
Tillage after seeding		
Harvest date		7-29
Total pounds		

Straw, pounds		
Grain, pounds		
Yields per acre		24.7 bpa
Grade		55.5 lbs/bu

Rotation - 569 Field N		Year - 1955	
	A	B	C
Crop	Wheat F	Wheat DD	Fallow
Variety	Lee	Lee	
Plowing date			
Plowing depth			
Tillage before seeding	DF 4-13	DD 4-13	
Seeding date	4-14	4-14	
Seeding rate	1 bpa	1 bpa	
Seeding manner	DD press drill	DD press drill	
Tillage after seeding			
Harvest date	7-29	7-29	

Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre	25.5 bpa	9.8 bpa	
Grade	57.0 lbs/bu.	57.0 lbs/bu.	

Rotation - 579 Field N	Year - 1955		
	A	B	C
Crop	Oats DD	Fallow	Oats F
Variety	Palomino		Palomino
Plowing date			
Plowing depth			
Tillage before seeding	DD 4-13		DF 4-13
Seeding date	4-15		4-15
Seeding rate	6 pecks per acre		6 pecks per acre
Seeding manner	DD press drill		DD press drill

Tillage after seeding			
Harvest date	7-29		7-29
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre	30.6 bpa		56.9 bpa
Grade	39.0 lbs/bu		37.0 lbs/bu

Rotation - 583 Field N	Year - 1955		
	A	B	C
Crop	Wheat SP	Wheat DD	Wheat DD Burned
Variety	Lee	Lee	Lee
Plowing date	4-14		
Plowing depth	4-5 inches		
Tillage before seeding		DD 4-13	DD 4-13
Seeding date	4-14	4-14	4-14
Seeding rate	1 bpa	1 bpa	1 bpa

Seeding manner	DD press drill	DD press drill	DD press drill
Tillage after seeding			
Harvest date	7-29	7-29	7-29
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre	13.8 bpa	10.3 bpa	15.5 bpa
Grade	60.0 lbs/bu.	60.0 lbs/bu.	60.0 lbs/bu.

Rotation - 700 Field N	Year - 1955		
	A	B	C
Crop	Wheat OW	Wheat DD	Wheat SP
Variety	Lee	Lee	Lee
Plowing date			
Plowing depth			4-5 inches
Tillage before seeding	OW 4-13	DD 4-13	
Seeding date	4-14	4-14	4-14
Seeding rate	1 bpa	1 bpa	1 bpa

Seeding manner	DD press drill	DD press drill	DD press drill
Tillage after seeding			
Harvest date	7-29	7-29	7-29
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre	18.3 bpa	18.5 bpa	26.8 bpa
Grade	60.5 lbs/bu.	60.0 lbs/bu	60.0 lbs/bu.

Rotation - 710 Field N	Year - 1955		
	A	B	C
Crop	Wheat OW	Wheat DD	Wheat SP
Variety	Lee	Lee	Lee
Plowing date			4-14
Plowing depth			4-5 inches
Tillage before seeding	OW 4-13	DD 4-13	
Seeding date	4-14	4-14	4-14

Seeding rate	1 bpa	1 bpa	1 bpa
Seeding manner	DD press drill	DD press drill	DD press drill
Tillage after seeding			
Harvest date	7-29	7-29	7-29
Total pounds			
Straw, pounds			
Grain, pounds			
Yields per acre	25.5 bpa	18.2 bpa	22.8 bpa
Grade	58.5 lbs/bu.	56.0 lbs/bu.	59.0 lbs/bu.

Rotation - Continuous Common Wheat - Field N			Year - 1955	
	A	B	C	D
Crop	Wheat SP	Wheat FP	Fallow	Wheat F
Variety	Lee	Lee		Lee
Plowing date	4-14	9-20-54		
Plowing depth	4-5 inches	4-5 inches		
Tillage before seeding		DD 4-13		DF 4-13

Seeding date	4-14	4-14		4-14
Seeding rate	1 bpa	1 bpa		1 bpa
Seeding manner	DD press drill	DD press drill		DD press drill
Tillage after seeding				
Harvest date	7-29	7-29		7-29
Total pounds				
Straw, pounds				
Grain, pounds				
Yields per acre	17.0 bpa	17.5 bpa		23.7 bpa
Grade	59.0 lbs/bu	58.0 lbs/bu		59.0 lbs/bu

Rotation - Continuous Durum Wheat - Field N		Year - 1955		
	A	B	C	D
Crop	Durum Sp	Durum FP	Fallow	Durum F
Variety	Sentry	Sentry		Sentry
Plowing date	4-14	9-20-54		
Plowing depth	4-5 inches	4-5 inches		

Tillage before seeding		DD 4-13		DF 4-13
Seeding date	4-14	4-14		4-14
Seeding rate	1 bpa	1 bpa		1 bpa
Seeding manner	DD press drill	DD press drill		DD press drill
Tillage after seeding				
Harvest date	7-29	7-29		7-29
Total pounds				
Straw, pounds				
Grain, pounds				
Yields per acre	15.5 bpa	18.5 bpa		18.0 bpa
Grade	61.0 lbs/bu	62.0 lbs/bu		60.00 lbs/bu

[Back to 1955 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)