

SUMMARY SHEETS

ROTATION AND TILLAGE TRIALS

FIELD N - 1954

Crop - Wheat - Field - N		Station - Dickinson				Year - 1954	
Rotation Number	Previous Crop	Tillage Method					
		DD	SP	FP	Disked	Burned	Fallow
					Stubble	Stubble	
68	Corn	8.8					
71	Corn	11.8					
MC A	Wheat		5.5				
MC B				6.2			
583 A	Wheat					4.5	
583 B	Wheat		6.0				
583 C	Wheat				2.8		
569 C	Wheat				4.3		
MC-C	Fallow						11.0
72	Fallow						15.3

225	Fallow						9.7
226	Fallow						10.3
227	Fallow						11.5
228	Fallow						11.5
473	Fallow						8.8
569 B	Fallow						8.2
Sum		20.6	11.5	6.2	7.1	4.5	86.3
Plots		2	2	1	2	1	8
Average		10.3	5.8	6.2	3.6	4.5	10.8

Crop - Oats - Field - N		Station - Dickinson		Year - 1954	
Rotation Number	Previous Crop	Tillage Method			
		DD	FP	F	DD stubble
72	Corn	35.0			
68	Wheat		25.0		
579 B	Oats				24.7

71	Fallow			43.8	
579 A	Fallow			33.1	
Sum		35.0	25.0	76.9	24.7
Plots		1	1	2	2
Average		35.0	25.0	38.5	24.7

Crop - Corn - Field - N Station - Dickinson Year - 1954			
Rotation Number	Previous Crop	Tillage Method	
		Grain	Silage
68	Oats	6.8	10600
71	Oats	11.5	13400
72	Wheat	18.8	15200
Sum		37.1	39200
Plots		3	3
Average		12.4	13067

Crop - Durum Wheat Station - Dickinson Year - 1954				
Rotation Number	Previous Crop	Tillage Method		
		SP	FP	Fallow
MC-A	Durum	12.3		
MC-B	Durum		9.2	
MC-C	Durum			12.0
472	Fallow			12.2
Sum		12.3	9.2	24.2
Plots		1	1	2
Average		12.3	9.2	12.1

ROTATION SHEETS

ROTATION AND TILLAGE TRIALS

FIELD "N" - 1954

Project - Rotation and Tillage Trials

Rotation - 18 - Field N			Year - 1954	
	A	B	C	D
Crop	Cr. Wheat	Wheat SP	Wheat OW	Wheat DD
Variety		Pilot	Pilot	Pilot
Plowing date		4-23-54		
Plowing depth		4-5 inches		
Tillage before seeding			O.W. 4-23-54	DD 4-22-54
Seeding date		4-24-54	4-24-54	4-24-54
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		71	53	70
Yields per acre		11.8 bu. per acre	8.8 bu. per acre	11.7 bu. per acre
Grade		Test Wt. 56.0	Test Wt. 55.0	Test Wt. 56.0
Year of uniform cropping. 1954 yields should not be included in future averages from this trial.				

Rotation - 19 - Field N			Year - 1954	
	A	B	C	D
Crop	Cr. Wheat	Wheat SP	Wheat OW	Wheat DD
Variety		Pilot	Pilot	Pilot
Plowing date		4-23-54		
Plowing depth		4-5 inches		
Tillage before seeding			O.W. 4-23-54	DD 4-22-54
Seeding date		4-24-54	4-24-54	4-24-54
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		59	44	63
Yields per acre		9.8 bu. per acre	7.3 bu. per acre	10.5 bu. per acre
Grade		Test Wt. 57.0	Test Wt. 58.0	Test Wt. 53.0
Year of uniform cropping. 1954 yields should not be included in future averages from the trial.				

Rotation - 68 - Field N		Year - 1954	
	A	B	C
Crop	Corn SP Manured	Wheat DC	Oats FP
Variety	Nodak 301	Pilot	Gopher
Plowing date	5-18-54		9-7-53
Plowing depth	4-5 inches		4-5 inches
Tillage before seeding		DD 4-22-54	DD 4-2-54
Seeding date	5-19-54	4-24-54	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	10,600# Silage per acre		
Straw, pounds			
Grain, pounds	29	53	80
Yields per acre	6.8 bu. per acre	8.8 bu. per acre	25.0 bu. per acre
Grade	No. 2	Test Wt. 51.0	Test Wt. 30.0

Rotation - 71 - Field N	Year - 1954

	A	B	C	D
Crop	Fallow Manured	Oats F	Corn SP	Wheat DC
Variety		Gopher	Nodak 301	Pilot
Plowing date			9-18-54	
Plowing depth			4-5 inches	
Tillage before seeding		DF 4-23-54		DD 4-22-54
Seeding date		4-23-54	5-19-54	4-24-54
Seeding rate		1 ½ bu. per acre	8 lbs. 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			13,400# silage per acre	
Straw, pounds				
Grain, pounds		140	49	71
Yields per acre		43.8 bu. per acre	11.5 bu. per acre	11.8 bu. per acre
Grade		Test Wt. 34.0	No. 2	Test Wt. 53.0

Rotation - 72 - Field N			Year - 1954	
	A	B	C	D

Crop	Fallow - Manured	Wheat F	Corn SP	Oats DC
Variety		Pilot	Nodak 301	Gopher
Plowing date			5-18-54	
Plowing depth			4-5 inches	
Tillage before seeding		DF 4-23-54		DD 4-22-54
Seeding date		4-24-54	5-19-54	4-23-54
Seeding rate		1 bu. per acre	8 lbs. per acre	1 ½ bu. per acre
Seeding, manner		DD Press Drill	2 Row Planter	DD Press Drill
Tillage after seeding			Necessary cultivation to control weeds	
Harvest date		8-9-54	9-8-54, 11-19-54	7-30-54
Total pounds			15,200# Silage per acre	
Straw, pounds				
Grain, pounds		92	80	112
Yields per acre		15.3 bu. per acre	18.8 bu. per acre	35.0 bu. per acre
Grade		Test Wt. 53.0	No. 2	Test wt. 33.5

Rotation - 224 - Field N		Year - 1954
	A	B
Crop	Cr. Wheat	Fallow DF 5-1

Variety		
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 - 225 - Field N		Year - 1954
	A	B
Crop	Wheat	Fallow P 5-1
Variety	Pilot	

Plowing date		
Plowing depth		
Tillage before seeding	DF 4-23-54	
Seeding date	4-24-54	
Seeding rate	1 bu. per acre	
Seeding manner	DD Press Drill	
Tillage after seeding		
Harvest date	8-9-94	
Total pounds		
Straw, pounds		
Grain, pounds	58	
Yields per acre	9.7 bu. per acre	
Grade	Test Wt, 54.0	

Rotation - 226- Field N		Year - 1954
	A	B
Crop	Wheat	Fallow DF 5-15
Variety	Pilot	
Plowing date		

Plowing depth		
Tillage before seeding	DF 4-23-54	
Seeding date	4-24-54	
Seeding rate	1 bu. per acre	
Seeding manner	DD Press Drill	
Tillage after seeding		
Harvest date	8-9-54	
Total pounds		
Straw, pounds		
Grain, pounds	62	
Yields per acre	10.3 bu. per acre	
Grade	Test Wt. 55.5	

Rotation - 227 - Field N		Year - 1954
	A	B
Crop	Wheat	Fallow P 5-15
Variety	Pilot	
Plowing date		
Plowing depth		

Tillage before seeding	DF 4-23-54	
Seeding date	4-24-54	
Seeding rate	1 bu. per acre	
Seeding manner	DD Press Drill	
Tillage after seeding		
Harvest date	8-9-54	
Total pounds		
Straw, pounds		
Grain, pounds	69	
Yields per acre	11.5 bu. per acre	
Grade	Test Wt. 54.0	

Rotation - 228 - Field N		Year - 1954
	A	B
Crop	Wheat	Fallow DF 6-1
Variety	Pilot	
Plowing date		
Plowing depth		
Tillage before seeding	DF 4-23-54	

Seeding date	4-24-54	
Seeding rate	1 bu. per acre	
Seeding manner	DD Press Drill	
Tillage after seeding		
Harvest date	8-9-54	
Total pounds		
Straw, pounds		
Grain, pounds	69	
Yields per acre	11.5 bu. per acre	
Grade	Test Wt. 54.0	

Rotation - 472		Year - 1954
	E	F
Crop	Durum DF	Fallow
Variety	Sentry	
Plowing date		
Plowing depth		
Tillage before seeding	DF 4-23-54	
Seeding date	4-24-54	

Seeding rate	1 bu. per acre	
Seeding manner	DD Press Drill	
Tillage after seeding		
Harvest date	8-9-54	
Total pounds		
Straw, pounds		
Grain, pounds	73	
Yields per acre	12.2 bu. per acre	
Grade	Test Wt. 60.0	

Rotation - 473 - Field N		Year - 1954
	E'	F'
Crop	Wheat DF	Fallow
Variety	Pilot	
Plowing date		
Plowing depth		
Tillage before seeding	DF 4-23-54	
Seeding date	4-24-54	
Seeding rate	1 bu. per acre	

Seeding manner	DD Press Drill	
Tillage after seeding		
Harvest date	8-9-54	
Total pounds		
Straw, pounds		
Grain, pounds	53	
Yields per acre	8.8 bu. per acre	
Grade	Test Wt. 55.0	

Rotation - 569 - Field N		Year - 1954	
	A	B	C
Crop	Fallow	Wheat F	Wheat DD
Variety		Pilot	Pilot
Plowing date			
Plowing depth			
Tillage before seeding		DF 4-23-54	DD 4-22-54
Seeding date		4-24-54	4-24-54
Seeding rate		1 bu. per acre	1 bu. per acre
Seeding manner		DD Press Drill	DD Press Drill

Tillage after seeding			
Harvest date		8-9-54	8-9-54
Total pounds			
Straw, pounds			
Grain, pounds		49	26
Yields per acre		8.2 bu. per acre	4.3 bu. per acre
Grade		Test Wt. 54.0	Test Wt. 56.0

Rotation - 579 - Field N		Year - 1954	
	A	B	C
Crop	Oats F	Oats DD	Fallow
Variety	Gopher	Gopher	
Plowing date			
Plowing depth			
Tillage before seeding	DF 4-23-54	4-22-54	
Seeding date	4-23-54	4-23-54	
Seeding rate	1 ½ bu. per acre	1 ½ bu. per acre	
Seeding manner	DD Press Drill	DD Press Drill	
Tillage after seeding			

Harvest date	7-30-54	7-30-54	
Total pounds			
Straw, pounds			
Grain, pounds	106	79	
Yields per acre	33.1 bu. per acre	24.7 bu. per acre	
Grade	Test Wt. 38.0	Test Wt. 38.0	

Rotation - 583 - Field N		Year - 1954	
	A	B	C
Crop	Wheat DD Burned	Wheat SP	Wheat DD
Variety	Pilot	Pilot	Pilot
Plowing date		4-23-54	
Plowing depth		4-5 inches	
Tillage before seeding	DD 4-22-54		DD 4-22-54
Seeding date	4-24-54	4-24-54	4-24-54
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	27	36	17
Yields per acre	4.5 Bu. per acre	6.0 bu. per acre	2.8 bu. per acre
Grade	Test Wt. 52.0	Test Wt. 53.0	Test Wt. 54.0

Rotation - 700 - Field N		Year - 1954	
	A	B	C
Crop	Wheat Sp	Wheat OW	Wheat DD
Variety	Pilot	Pilot	Pilot
Plowing date	4-23-54		
Plowing depth	4-5 inches		
Tillage before seeding		O.W. 4-23-54	DD 4-22-54
Seeding date	4-24-54	4-24-54	4-24-54
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	73	73	75

Yields per acre	12.2 bu. per acre	12.2 bu. per acre	12.5 bu. per acre
Grade	Test Wt. 56.0	Test Wt. 53.0	Test Wt. 52.0
Year of uniform cropping. 1954 yields should not be included in future averages from this trial.			

Rotation - 710 - Field N		Year - 1954	
	A	B	C
Crop	Wheat SP	Wheat OW	Wheat DD
Variety	Pilot	Pilot	Pilot
Plowing date	4-23-54		
Plowing depth	4-5 inches		
Tillage before seeding		O.W. 4-23-54	DD 4-22-54
Seeding date	4-24-54	4-24-54	4-24-54
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	84	63	62
Yields per acre	14.0 bu. per acre	10.5 bu. per acre	10.3 bu. per acre

Grade	Test Wt. 53.0	Test Wt. 51.0	Test Wt. 52.5
Year of uniform cropping. 1954 yields should not be included in future averages from this trial.			

Rotation - Common Wheat - Field N			Year - 1954	
	A'	B'	C'	D'
Crop	Wheat Sp	Wheat FP	Wheat F	Fallow
Variety	Pilot	Pilot	Pilot	
Plowing date	4-23-54	9-7-53		
Plowing depth	4-5 inches	4-5 inches		
Tillage before seeding		DD 4-22-54	DF 4-23-54	
Seeding date	4-24-54	4-24-54	4-24-54	
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	33	37	66	
Yields per acre	5.5 bu. per acre	6.2 bu. per acre	11.0 bu. per acre	

Grade	Test Wt. 53.5	Test Wt. 53.0	Test Wt. 52.0	
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Rotation - Durum Wheat - Field N - Continuous			Year - 1954	
	A	B	C	D
Crop	Durum SP	Durum SP	Durum F	Fallow
Variety	Sentry	Sentry	Sentry	
Plowing date	4-23-54	9-7-53		
Plowing depth	4-5 inches	4-5 inches		
Tillage before seeding		DD 4-23-54	DF 4-23-54	
Seeding date	4-24-54	4-24-54	4-24-54	
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	74	55	72	
Yields per acre	12.3 bu. per acre	9.2 bu. per acre	12.0 bu. per acre	
Grade	Test Wt. 61.0	Test Wt. 58.0	Test Wt. 60.0	