NORTH DAKOTA GRAIN TRANSPORTATION STATISTICS 1974-75

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NORTH DAKOTA GRAIN TRANSPORTATION STATISTICS 1974-75

\mathbf{BY}

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in cooperation with

North Dakota State Wheat Commission Bismarck, North Dakota and North Dakota Public Service Commission Bismarck, North Dakota

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PREFACE

This report represents a continuation of analyses concerned with the patterns and methods of distributing grain from North Dakota. This series began with the analysis of 1956-57 data and was published in Agricultural Economics Report 14, Department of Agricultural Economics, North Dakota State University. Subsequent years' data were analyzed in Agricultural Economics Reports 15, 17, 44 and 57, and Agricultural Experiment Station Bulletin 462. The compilation and analysis of the data for the year 1967-68 in this series were assumed by the Upper Great Plains Transportation Institute. Also, the data representing the 1967-68 period were the first results of the requirements of the North Dakota Public Service Commission that all North Dakota elevators report monthly movements of grain by truck and rail. Prior to 1967-68, the data had been estimated from questionnaires completed by a small portion or sample of country elevators.

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NORTH DAKOTA GRAIN TRANSPORTATION STATISTICS, 1974-75

Objective of Report

This report represents a continuation of analyses concerned with the patterns and methods of distributing grain from North Dakota. The collection and compilation of this type of data began in 1956-57. The objective of this report, like its predecessors, is to provide the necessary data base for identifying trends in the distribution of grains from North Dakota.

Scope of Report

The data were tabulated according to the major characteristics which typically describe commodity flows. The major characteristics considered were: destination of shipments, mode of shipment, origin of shipment, time of shipment and commodity shipped. These characteristics are defined as follows:

<u>Destination of shipment</u>: Minneapolis-St. Paul, Duluth-Superior, West (includes western states and North Pacific ports) and Miscellaneous markets.

<u>Mode of shipment</u>: Rail or truck. Rail includes Commodity Credit Corporation shipments.

Origin of shipment: The nine crop reporting districts in North Dakota (Figure 1).

Time of shipment: By month, from July, 1974 to June, 1975.

Commodity shipped: Hard red spring wheat, durum, barley, oats, rye and flax.

Source of Data

The data used to analyze the North Dakota grain distribution pattern for the period July, 1974 through June, 1975, were obtained from all country elevators in North Dakota. The source of the data is the North Dakota Public Service Commission's "Grain Movement Reports." Every country elevator in North Dakota is required under state statute to assemble and submit to the Public Service Commission such information desired by the Commission on a monthly basis.

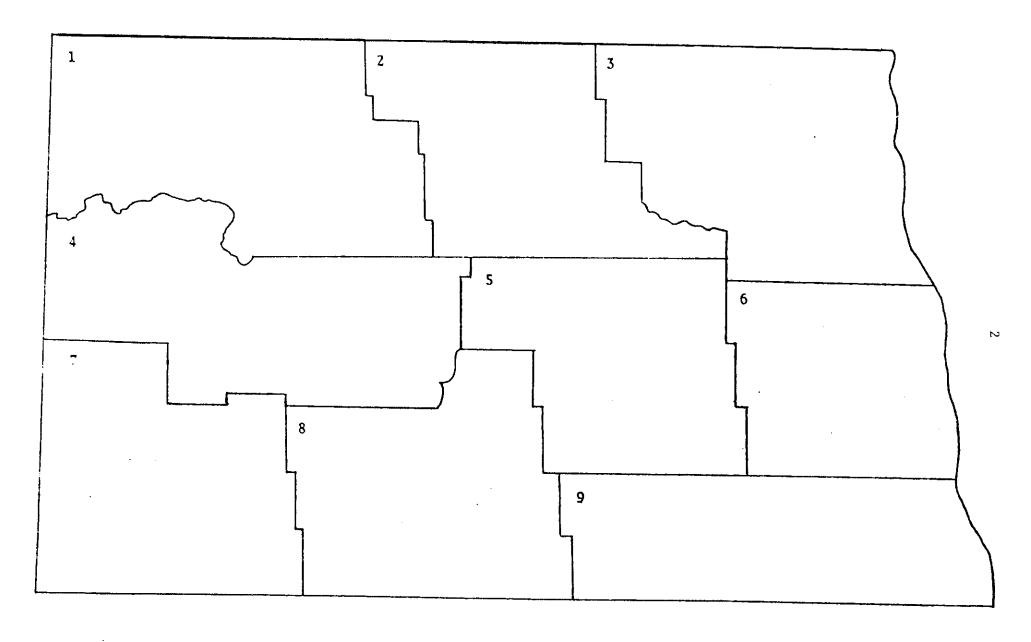


Figure 1. North Dakota Crop Reporting Districts

Organization of the Remainder of the Report

While the same general commodity flow characteristics are considered in this report as in previous reports of this nature, there is a difference in the organization and presentation of the material. The commodity flow characteristic "commodity shipped" is used to delineate major sections of the report. That is, each type of grain, hard red spring wheat, durum, barley, oats, rye and flax, has its own major section. The sections are presented in the order just indicated.

In addition, the number, type and volume of data has been condensed considerably relative to earlier reports with greater reliance placed on the graphical presentation of basic data. It is the intention of this report to get people to understand its content through "reading it for themselves."

NORTH DAKOTA GRAIN SHIPMENTS 1967-68 — 1974-75

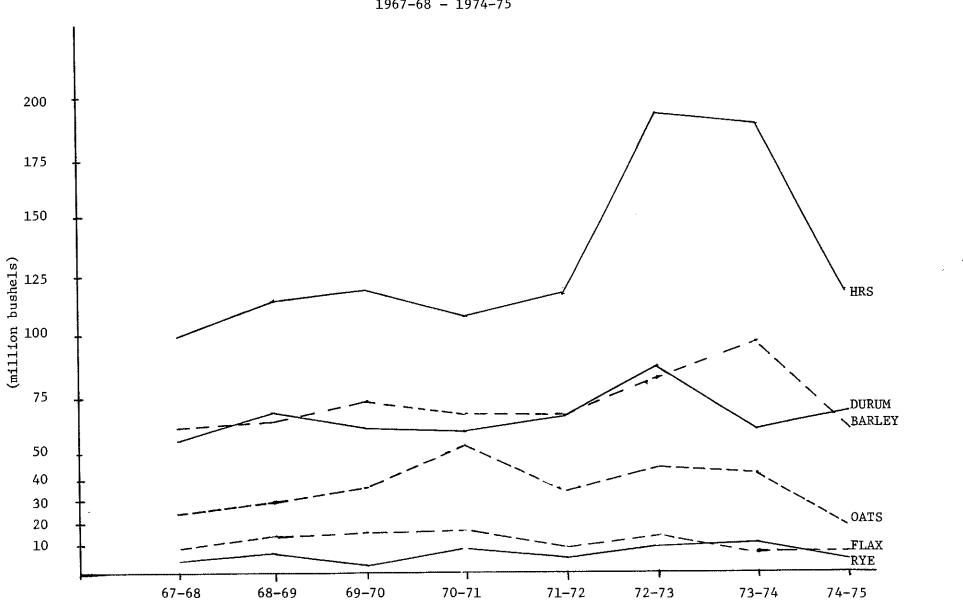
NORTH DAKOTA GRAIN SHIPMENTS* 1967-68 - 1974-75

	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75
**************************************				(thousand	l bu.)			
HARD RED SPRING	101,788	113,164	120,330	105,800	119,944	191,696	183,567	122,934
DURUM	52,189	69,589	58,540	57,317	66,184	83,351	60,758	68,781
BARLEY	58,705	60,869	74,528	68,996	68,436	78,384	91,739	56,671
OATS	24,128	29,296	37,008	55,049	32,009	44,222	41,338	19,322
RYE	3,370	4,580	1,672	4,675	3,701	5,009	7,721	2,513
FLAX	9,617	11,788	13,133	13,540	8,796	11,411	6,871	5,300
TOTAL	249,797	289,286	305,211	305,377	299,071	414,073	391,994	275,527

^{*}Includes CCC shipments.

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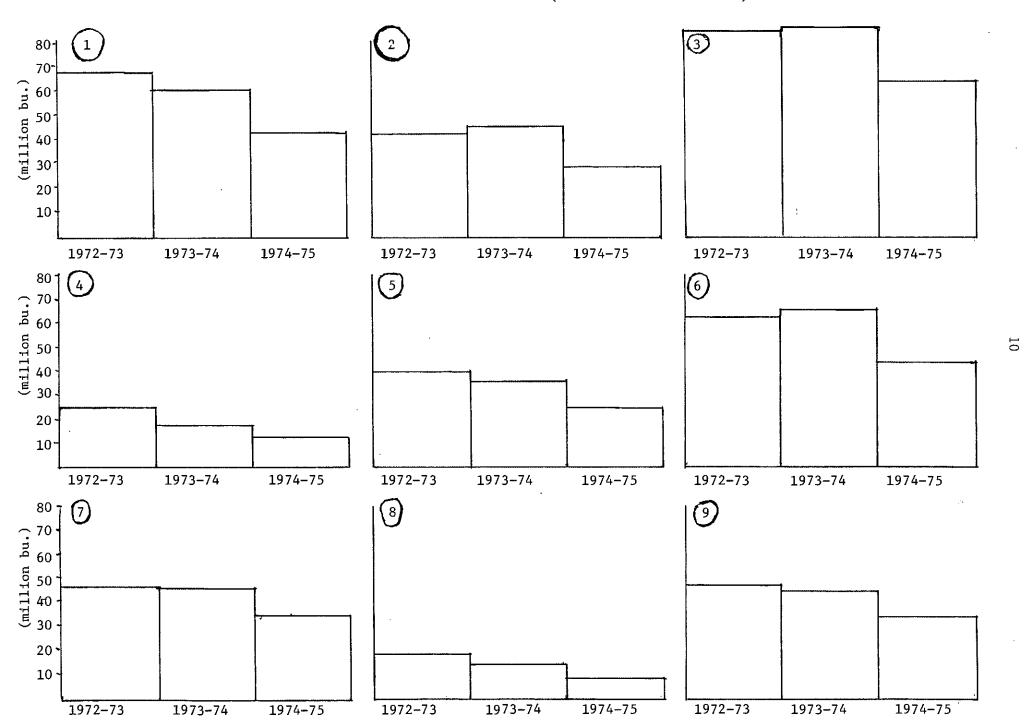
NORTH DAKOTA GRAIN SHIPMENTS 1967-68 - 1974-75



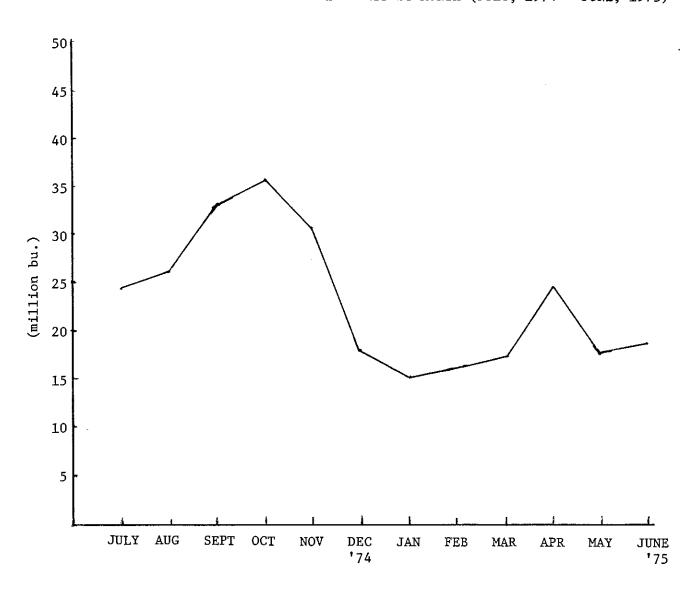
NORTH DAKOTA GRAIN SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

NORTH DAKOTA GRAIN SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

OP REPORTING DISTRICT	1972-73	1973-74	1974-75
		(thousand bu.)	
1	68,671	60,727	41,743
2	40,974	42,948	28,136
3	83,827	83,943	64,109
4	23,704	18,446	10,822
5	40,000	36,720	25,508
6	61,514	62,986	43,074
7	31,050	28,718	19,499
8	18,015	11,741	7,692
9	46,320	44,866	31,690



NORTH DAKOTA GRAIN SHIPMENTS BY MONTH (JULY, 1974 - JUNE, 1975)

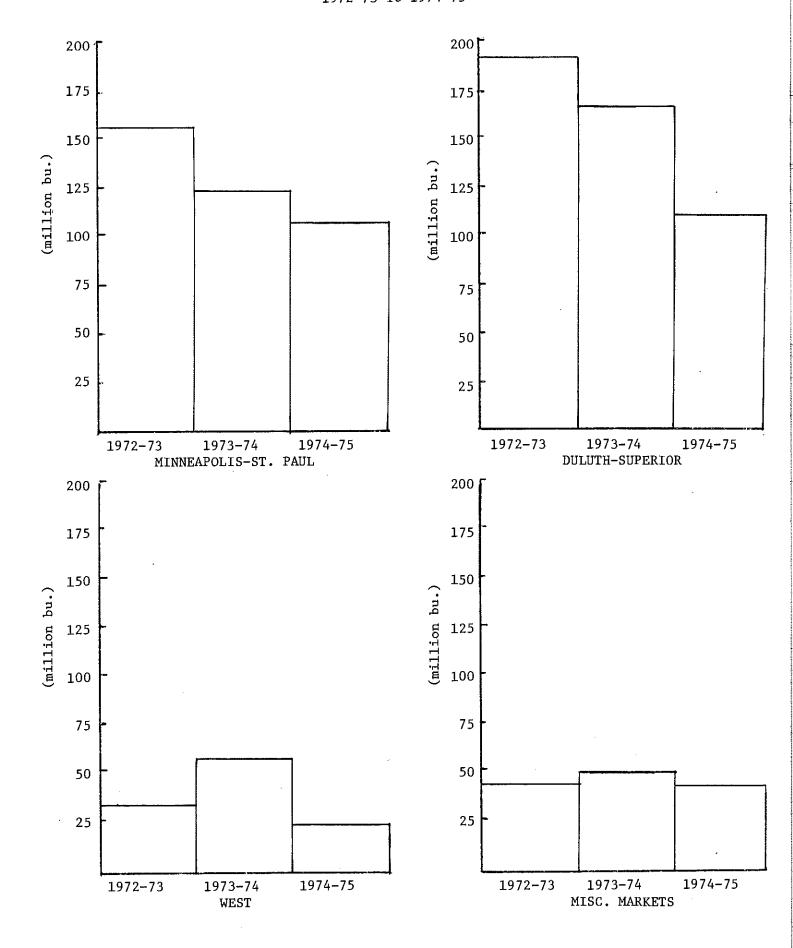


NORTH DAKOTA GRAIN SHIPMENTS BY DESTINATION

NORTH DAKOTA GRAIN SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974-75
MINNEAPOLIS-ST. PAUL	159,200	124,165	108,093
DULUTH-SUPERIOR	191,054	165,081	109,585
WEST	27,810	57,612	23,827
MISCELLANEOUS MARKETS	36,006	45,133	33,982
TOTAL	414,070	391,991	275,487

NORTH DAKOTA GRAIN SHIPMENTS BY DESTINATION 1972-73 TO 1974-75

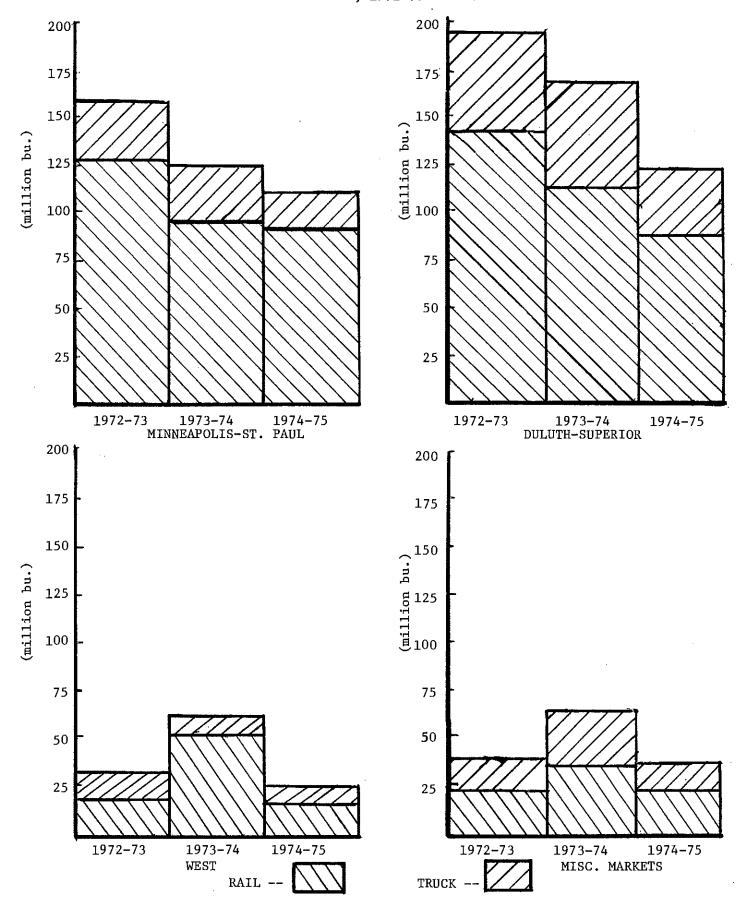


NORTH DAKOTA GRAIN SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA GRAIN SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	1972-	-73	1973-	·74	1974	75
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
			(thousand	bu.)	· · · · · · · · · · · · · · · · · · ·	
MINNST. PAUL	125,529	33,671	97,664	26,501	90,556	17,537
	(79%)	(21%)	(79%)	(21%)	(84%)	(16%)
DULUTH-SUPERIOR	141,233	49,821	112,434	52,647	88,428	21,157
	(74%)	(26%)	(68%)	(32%)	(81%)	(19%)
WEST	21,364	6,446	49,690	7,922	17,148	6,679
	(77%)	(23%)	(86%)	(14%)	(72%)	(28%)
MISC. MARKETS	24,044	11,962	31,024	14,109	25,790	8,192
	(67%)	(33%)	(69%)	(31%)	(76%)	(24%)
TOTAL	312,170	101,900	290,812	101,179	221,922	53,565
	(75%)	(25%)	(74%)	(26%)	(81%)	(19%)

NORTH DAKOTA GRAIN SHIPMENTS BY RAIL AND TRUCK AND DESTINATION, 1972-73 TO 1974-75

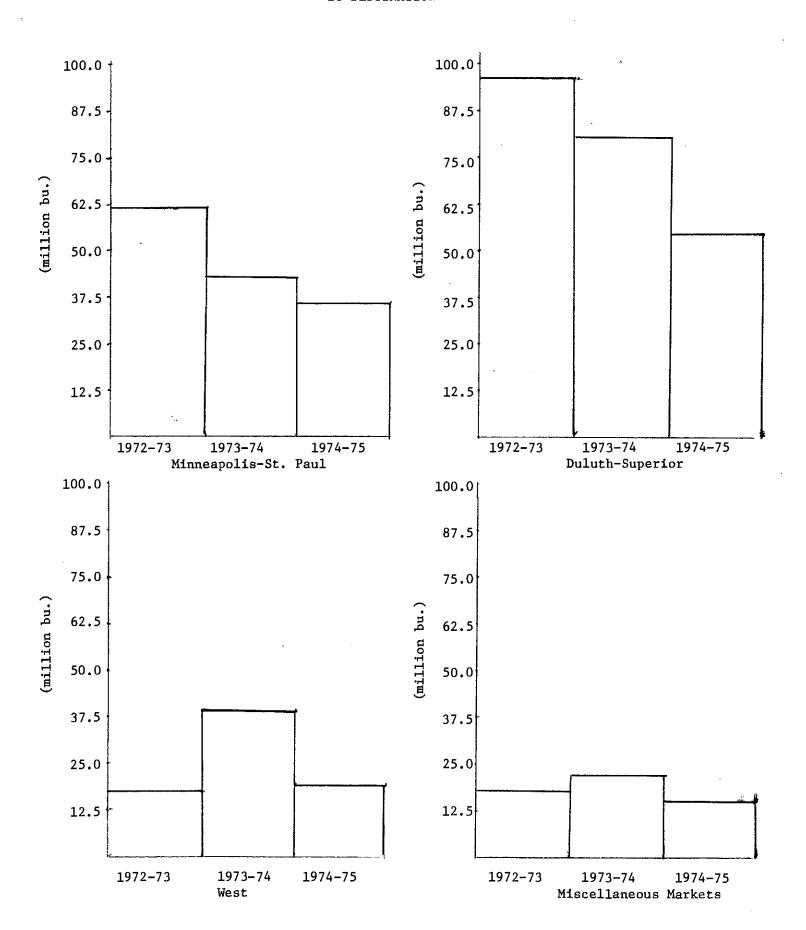


NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY DESTINATION

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974-75
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	60,963	42,962	35,485
DULUTH-SUPERIOR	95,959	80,462	54,419
WEST	16,666	39,295	17,713
MISCELLANEOUS MARKETS	18,109	20,847	15,317

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY DESTINATION

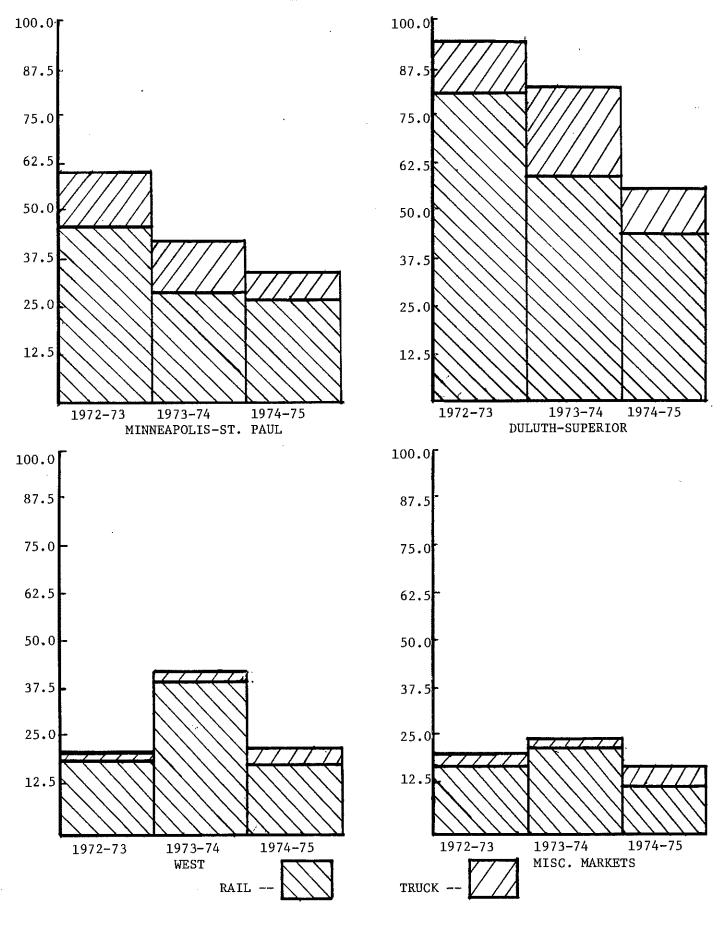


NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

1972-73		1973	-74	1974-75		
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
		***************************************	(thousand b	u.)		
MINNST. PAUL	46,459	14,504	27,760	15,202	25,518	9,967
	(76%)	(24%)	(65%)	(35%)	(72%)	(28%)
DULUTH-SUPERIOR	80,636	15,323	57,777	22,685	44,216	10,203
	(84%)	(16%)	(72%)	(28%)	(81%)	(19%)
WEST	16,344	322	38,032	1,263	15,566	2,147
	(98%)	(2%)	(97%)	(3%)	(88%)	(12%)
MISC. MARKETS	14,738	3,371	17,759	3,088	12,184	3,132
	(8 1 %)	(19%)	(85%)	(15%)	(80%)	(20%)

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

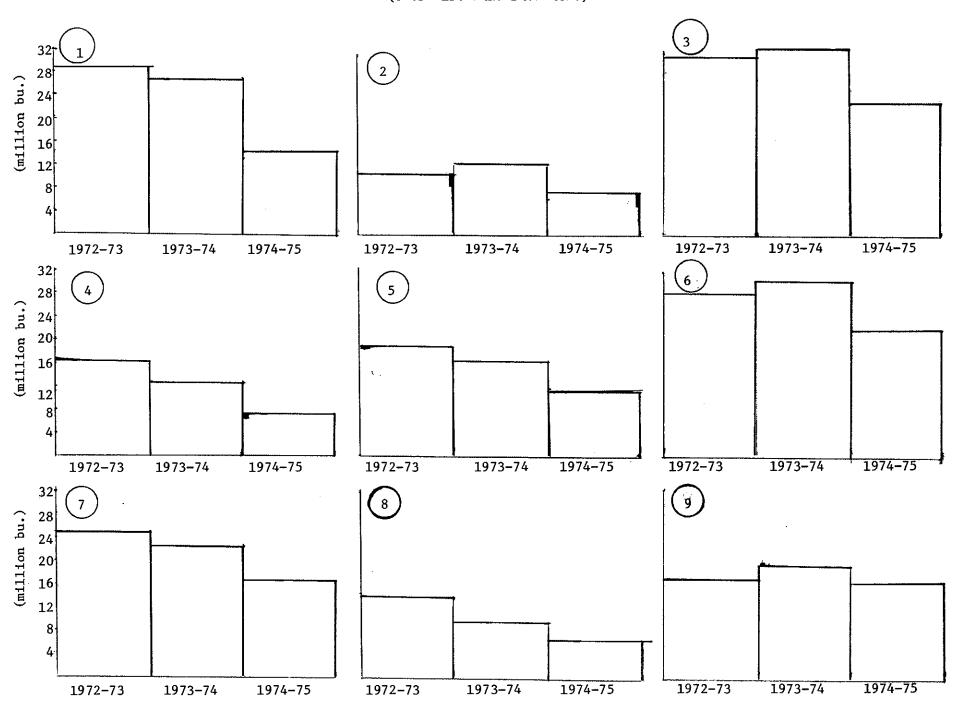


NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

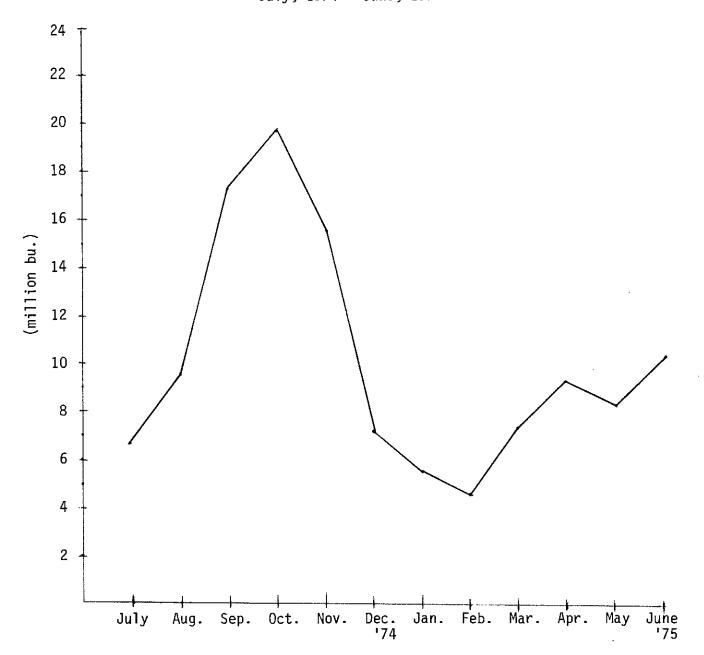
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

1972-73	1973-74	1974-75
	(thousand bu.)	
29,376	26,866	14,472
11,142	12,282	6,279
31,560	32,677	22,893
16,223	12,687	6,955
18,739	16,569	11,473
28,261	30,288	21,393
25,109	22,596	16,138
13,962	9,911	6,609
17,325	19,693	16,720
	29,376 11,142 31,560 16,223 18,739 28,261 25,109 13,962	(thousand bu.) 29,376 26,866 11,142 12,282 31,560 32,677 16,223 12,687 18,739 16,569 28,261 30,288 25,109 22,596 13,962 9,911

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICTS)



NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY MONTH July, 1974 - June, 1975

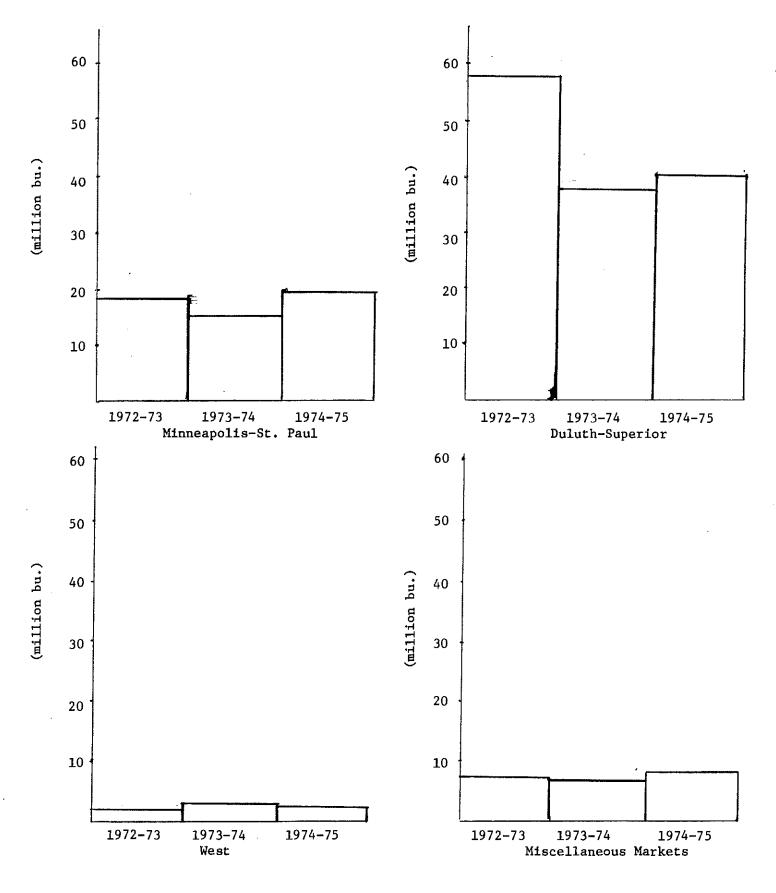


NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION

NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974-75
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	17,472	14,145	19,455
DULUTH-SUPERIOR	58,343	37,686	40,728
WEST	705	2,132	847
MISCELLANEOUS MARKETS	6,832	6,794	7,751

NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION

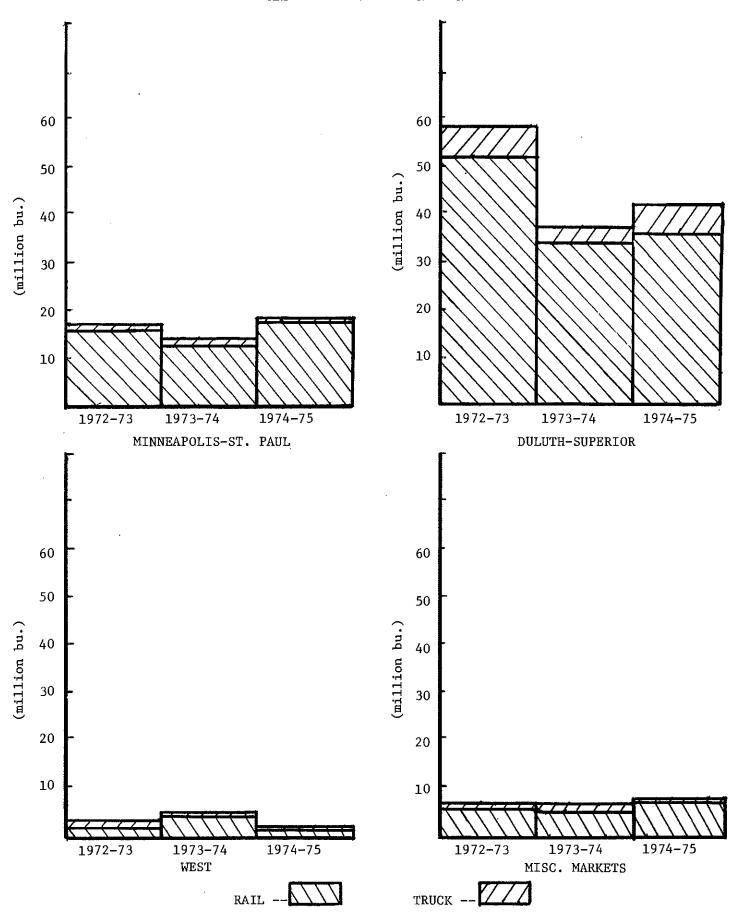


NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	1972	-7 3	1973-	-74	1974-	-75
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
			(thousand	bu.)		
MINNST. PAUL	16,504	968	12,897	1,248	18,489	966
	(94%)	(6%)	(91%)	(9%)	(95%)	(5%)
DULUTH-SUPERIOR	50,426	7,917	33,459	4,227	35,770	4,957
	(86%)	(14%)	(89%)	(11%)	(88%)	(12%)
WEST	608	97	1,867	265	608	239
	(86%)	(14%)	(88%)	(12%)	(72%)	(28%)
MISC. MARKETS	5,780	1,052	5,031	1,763	7,505	246
	(85%)	(15%)	(74%)	(26%)	(97%)	(3%)

NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

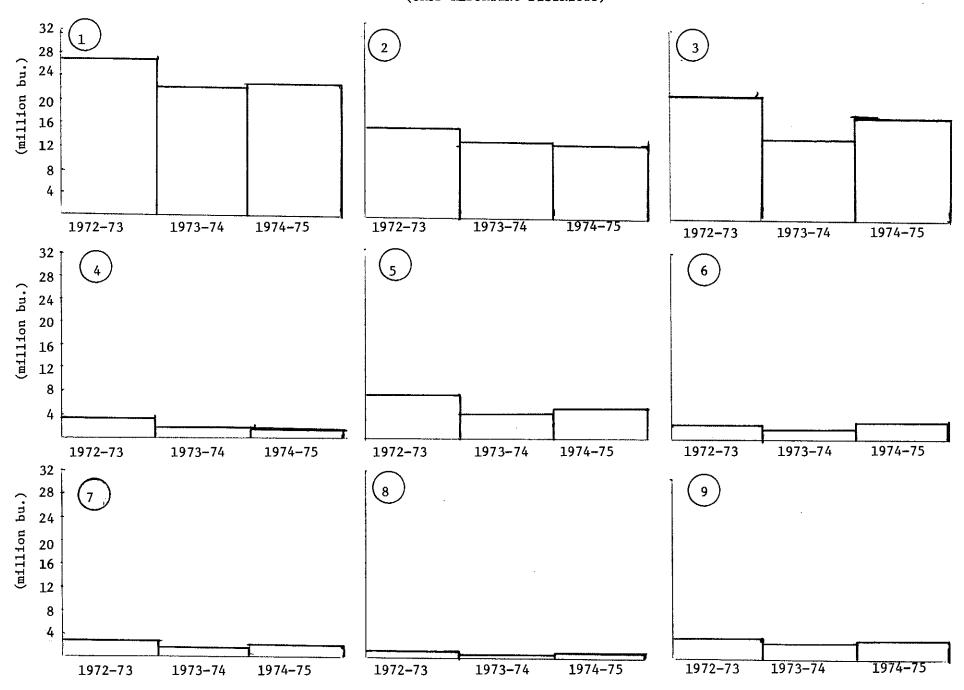


NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

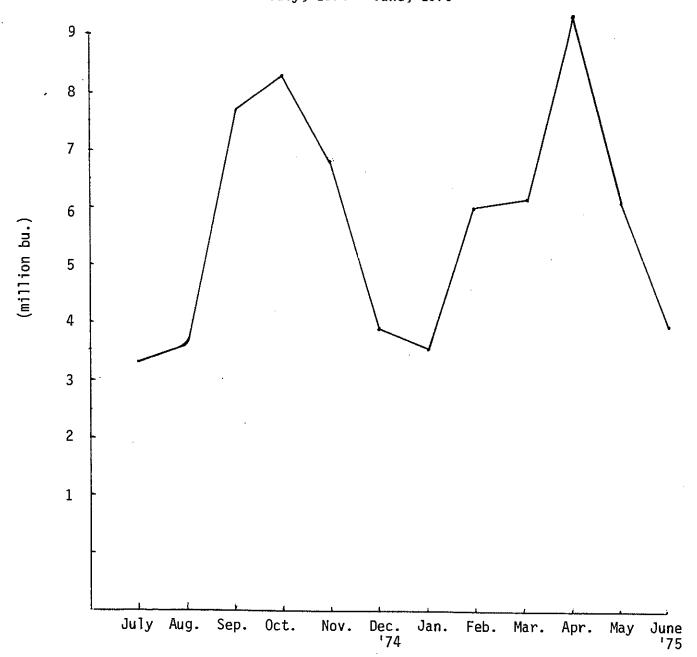
NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1972-73	1973-74	1974-75
		(thousand bu.)	
1	26,658	22,133	22,973
2	15,105	12,910	12,685
3	21,142	13,787	17,326
4	3,770	2,829	2,717
5	7,698	4,139	5,466
6	2,305	1,192	2,555
7	2,236	1,331	1,871
8	951	444	543
9	3,487	1,991	2,642

NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICTS)



NORTH DAKOTA DURUM SHIPMENTS BY MONTH July, 1974 - June, 1975

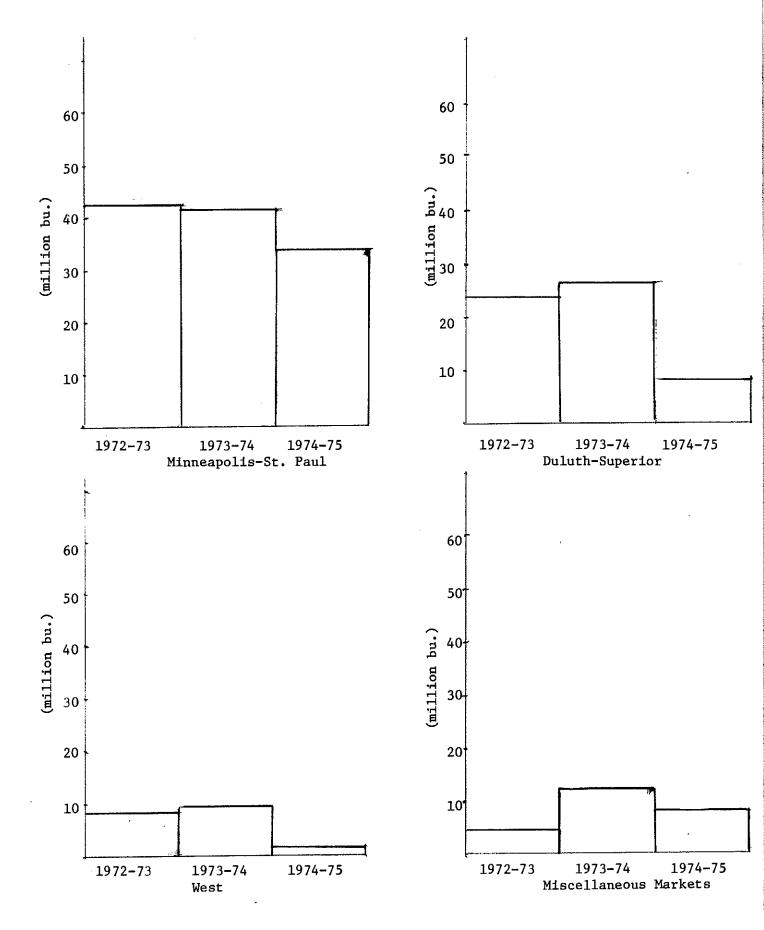


NORTH DAKOTA BARLEY SHIPMENTS BY DESTINATION

NORTH DAKOTA BARLEY SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974-75
	(1	chousand bu.)	
MINNEAPOLIS-ST. PAUL	42,803	42,244	37,461
DULUTH-SUPERIOR	23,799	26,659	9,204
WEST	7,545	9,858	1,652
MISCELLANEOUS MARKETS	4,236	12,977	8,360

NORTH DAKOTA BARLEY SHIPMENTS BY DESTINATION

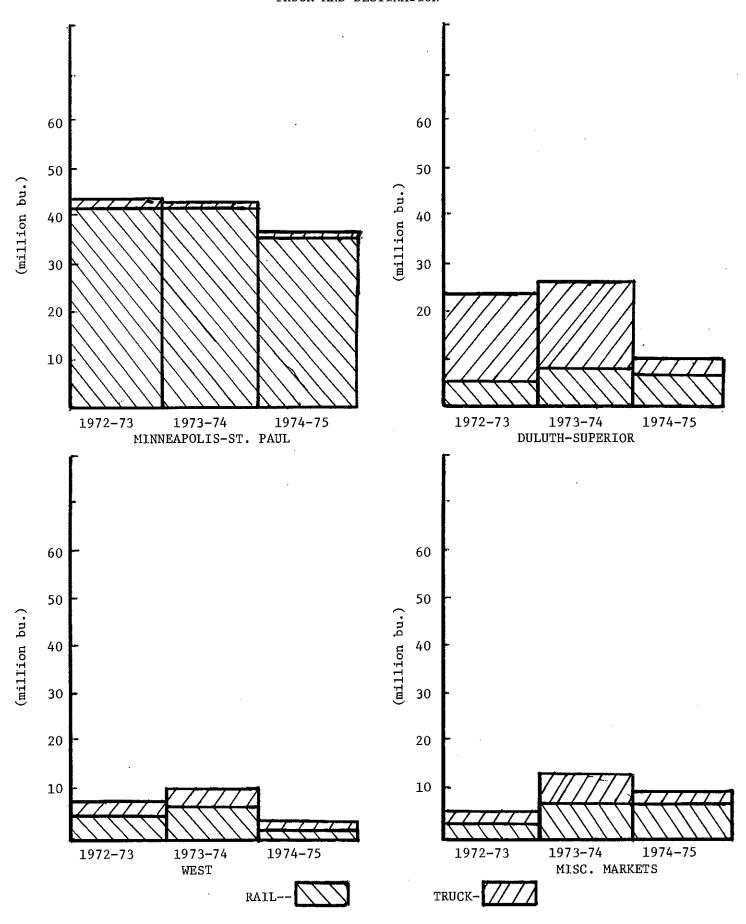


NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	1972-	-73	1973-	- 74	1974-	75
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
		(tho	usand bu.)			
MINNST. PAUL	40,575	2,228	40,905	1,339	36,783	678
	(95%)	(5%)	(97%)	(3%)	(98%)	(2%)
DULUTH-SUPERIOR	4,767	19,032	9,230	17,429	6,235	2,969
	(20%)	(80%)	(35%)	(65%)	(68%)	(32%)
WEST	3,878	3,667	7,030	2,828	646	1,006
	(51%)	(49%)	(71%)	(29%)	(39%)	(61%)
MISC. MARKETS	2,182	2,054	6,857	6,120	5,607	2,753
	(52%)	(48%)	(53%)	(47%)	(67%)	(33%)

NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

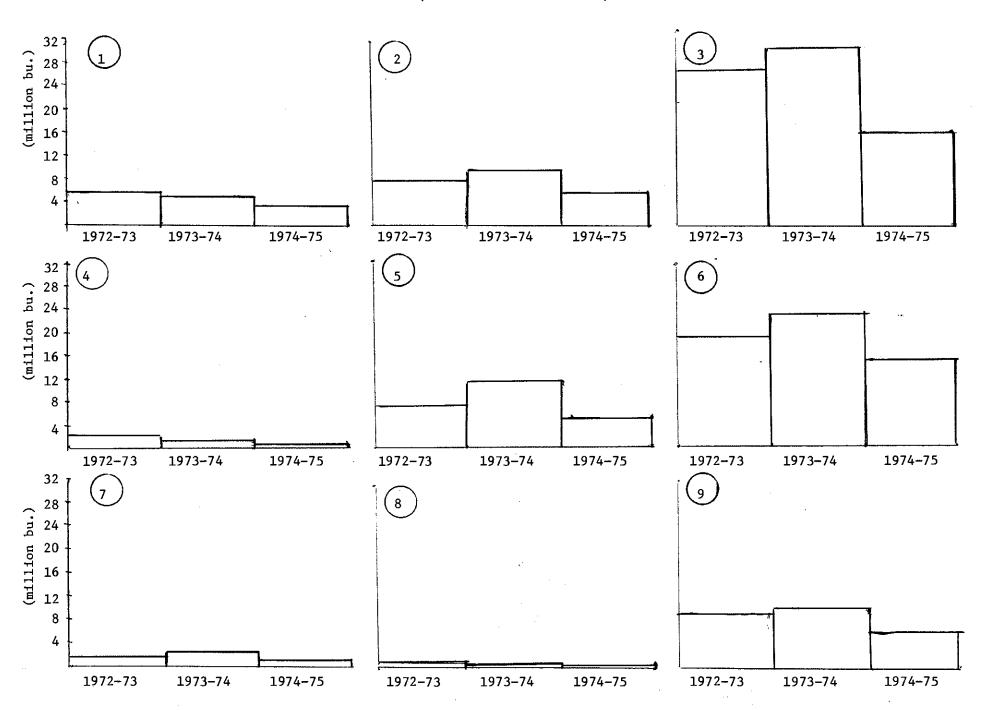


NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

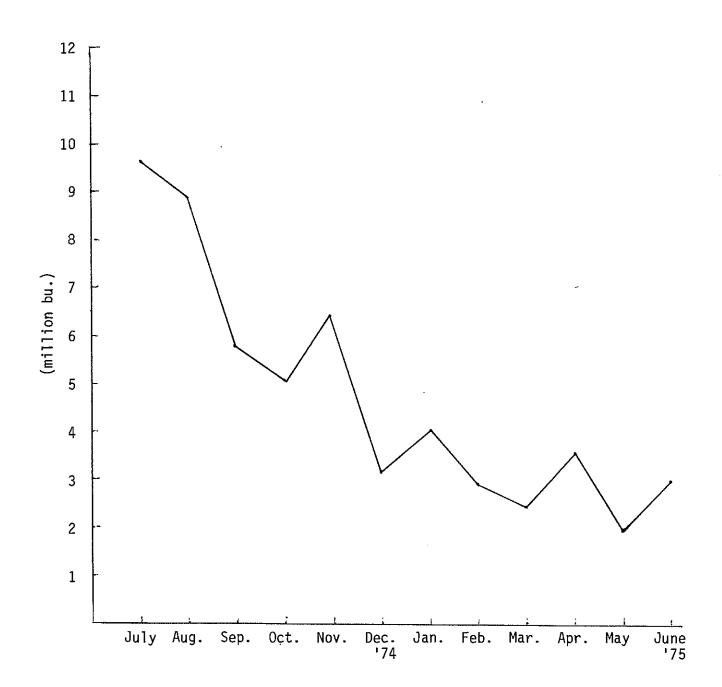
NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1972-73	1973-74	1974-75				
	(thousand bu.)						
1	5,784	4,778	3,813				
2	8,192	10,440	6,023				
3	24,874	29,933	19,947				
4	1,422	1,276	462				
5	6,943	11,024	5,321				
6	19,820	22,376	14,602				
7	1,939	2,559	1,075				
8	994	524	136				
9	8,416	8,828	5,294				

NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)



NORTH DAKOTA BARLEY SHIPMENTS BY MONTH July, 1974 - June, 1975

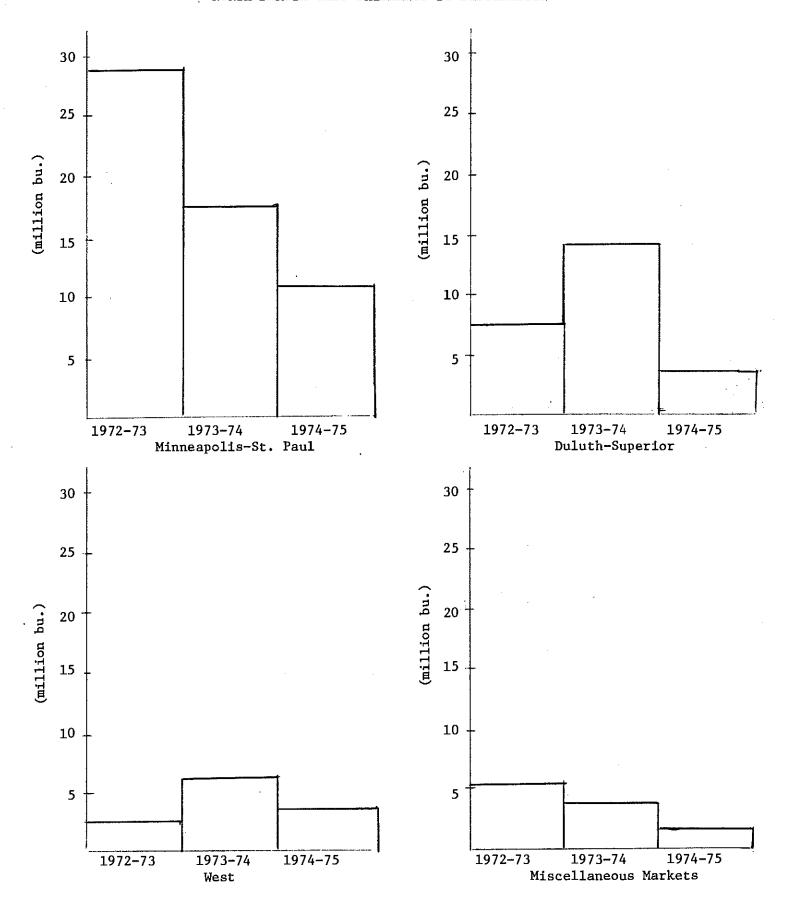


NORTH DAKOTA OATS SHIPMENTS BY DESTINATION

NORTH DAKOTA OATS SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974–75
	(the	ousand bu.)	
MINNEAPOLIS-ST. PAUL	28,784	17,362	10,439
DULUTH-SUPERIOR	7,475	14,020	3,572
WEST	2,390	6,086	3,446
MISCELLANEOUS MARKETS	5,572	3,870	1,825

NORTH DAKOTA OATS SHIPMENTS BY DESTINATION

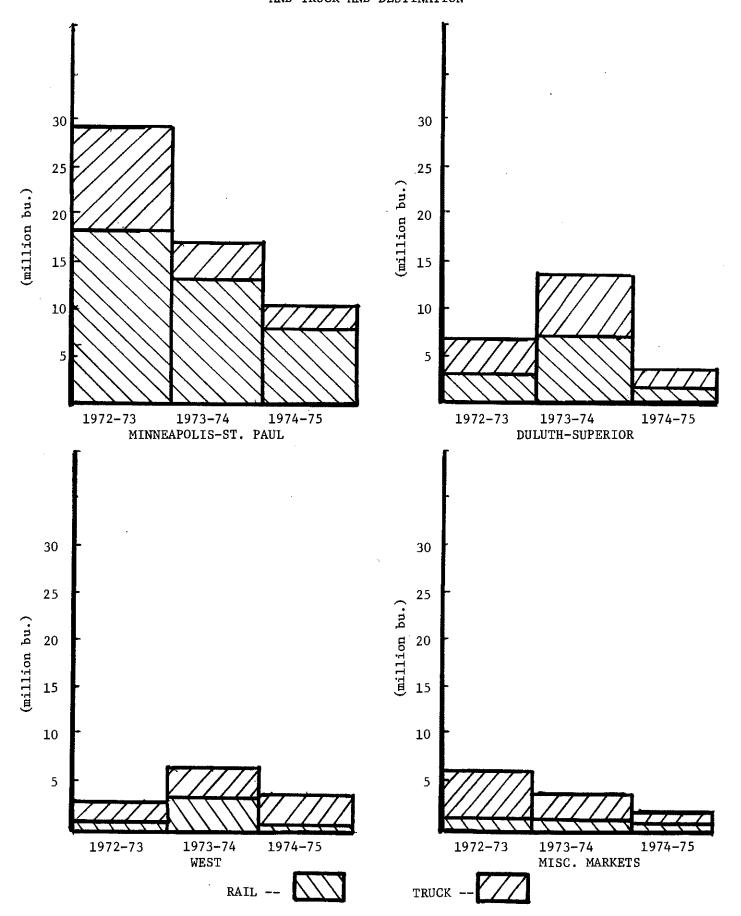


NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA OATS SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION

	1972	.–73	1973-	-74	1974-	- 75
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
30, 40, 401 a.m	<u> </u>		(thousand b	1.)		
MINNST. PAUL	18,026	10,758	13,306	4,056	8,148	2,291
	(63%)	(37%)	(77%)	(23%)	(78%)	(22%)
DULUTH-SUPERIOR	3,199	4,276	7,189	6,831	1,373	2,199
	(43%)	(57%)	(51%)	(49%)	(38%)	(62%)
WEST	508	1,882	2,754	3,332	319	3,127
	(21%)	(79%)	(45%)	(55%)	(9%)	(91%)
MISC. MARKETS	1,107	4,465	1,114	2,756	316	1,509
	(20%)	(80%)	(29%)	(71%)	(17%)	(83%)

NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

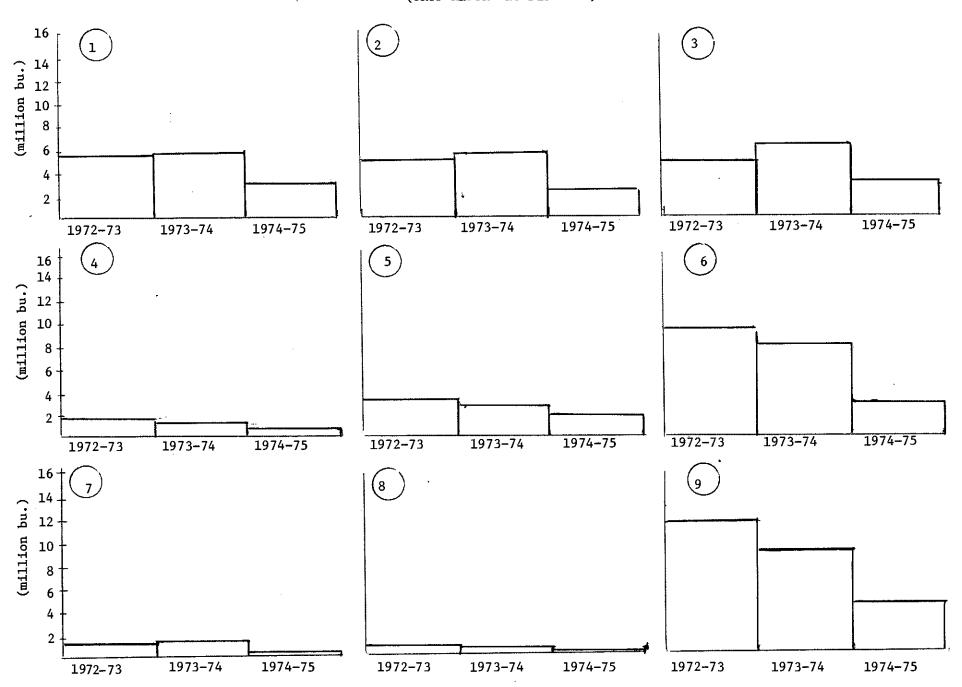


NORTH DAKOTA OATS SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

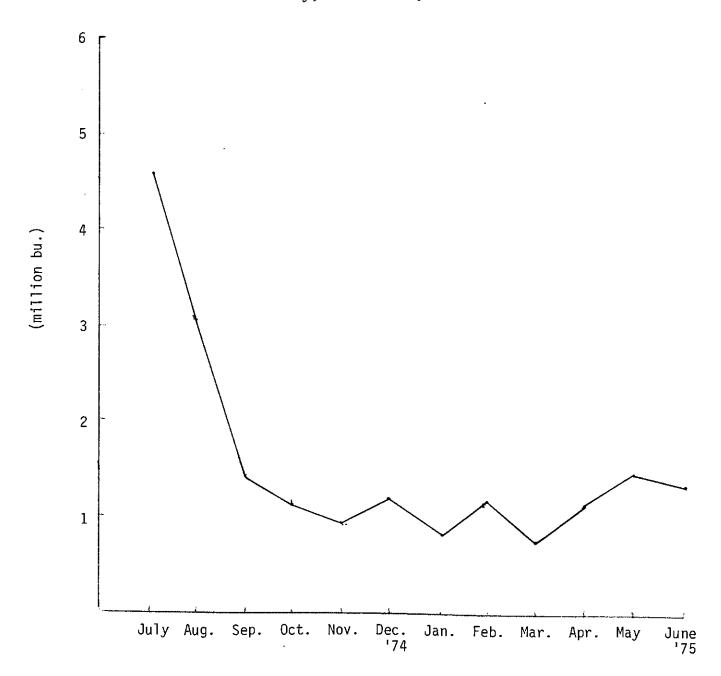
NORTH DAKOTA OATS SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1972-73	1973-74	1974-75
	(ti	nousand bu.)	
1	5,777	5,849	3,103
2	4,710	5,514	2,221
3	5,128	6,401	3,153
4	1,389	1,188	283
5	3,833	2,783	2,095
6	9,180	7,625	3,426
7	1,323	1,688	266
8	908	447	65
9	11,974	8,943	4,668

NORTH DAKOTA OATS SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)



NORTH DAKOTA OATS SHIPMENTS BY MONTH July, 1974 - June, 1975

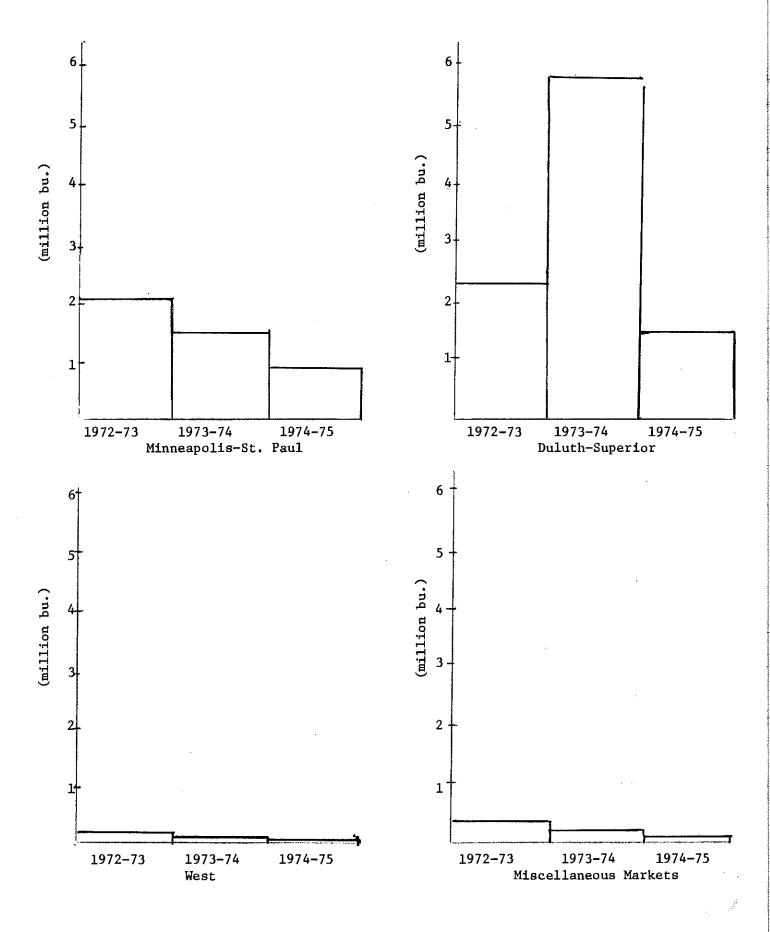


NORTH DAKOTA RYE SHIPMENTS BY DESTINATION

NORTH DAKOTA RYE SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974-75
	. (1	thousand bu.)	
MINNEAPOLIS-ST. PAUL	2,012	1,561	899
DULUTH-SUPERIOR	2,288	5,730	1,316
WEST	272	150	100
MISCELLANEOUS MARKETS	437	280	198

NORTH DAKOTA RYE SHIPMENTS BY DESTINATION

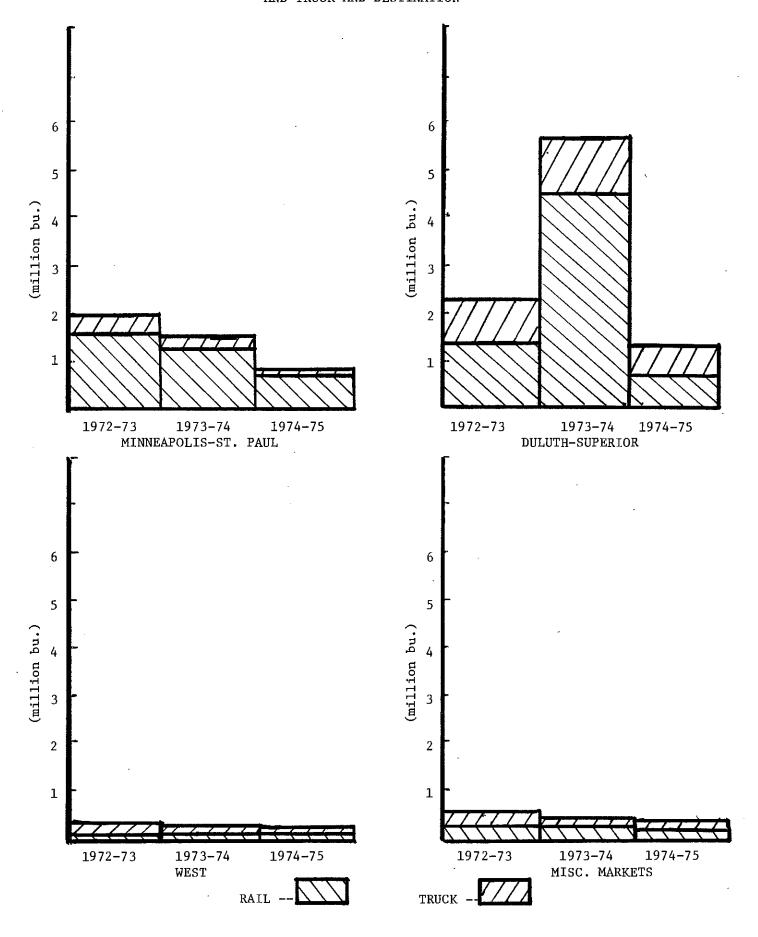


NORTH DAKOTA RYE SHIPMENTS OF RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	197	2-73	197	3-74	1974	- 75
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
		(t)	nousand bu.)			*
MINNST. PAUL	1,705	307	1,406	155	703	196
	(85%)	(15%)	(90%)	(10%)	(78%)	(22%)
DULUTH-SUPERIOR	1,291	897	4,584	1,146	779	538
	(59%)	(41%)	(80%)	(20%)	(59%)	(41%)
WEST	5	267	7	143	9	91
	(2%)	(98%)	(5%)	(95%)	(9%)	(91%)
MISC. MARKETS	151	286	201	79	100	98
	(35%)	(65%)	(72%)	(28%)	(50%)	(50%)

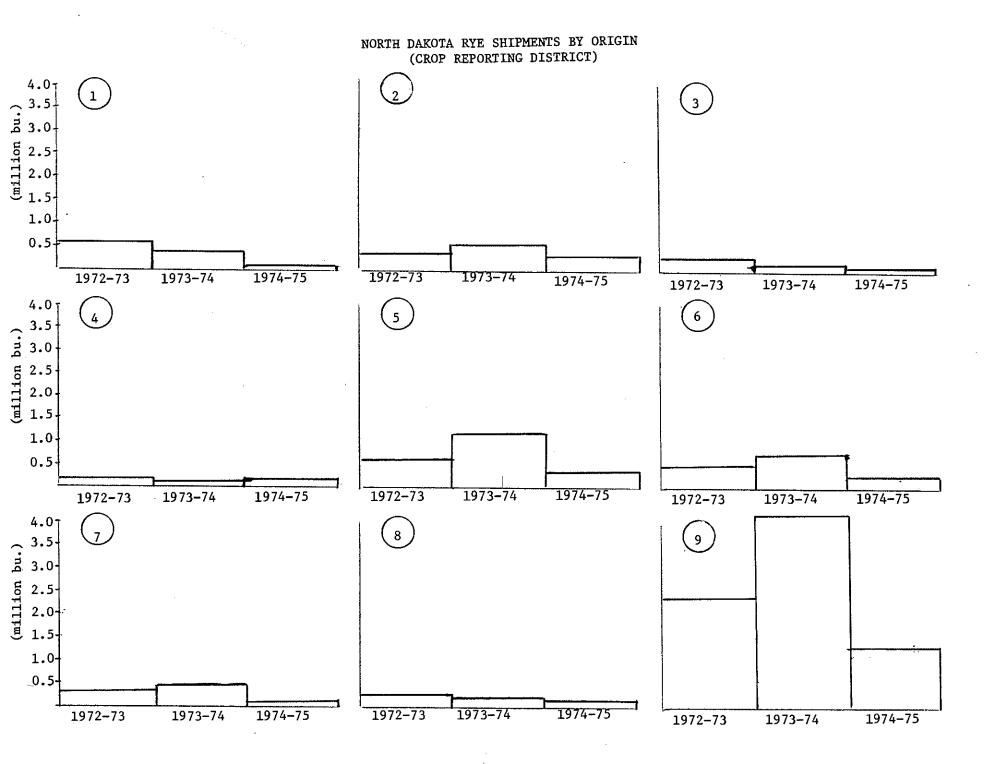
NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION



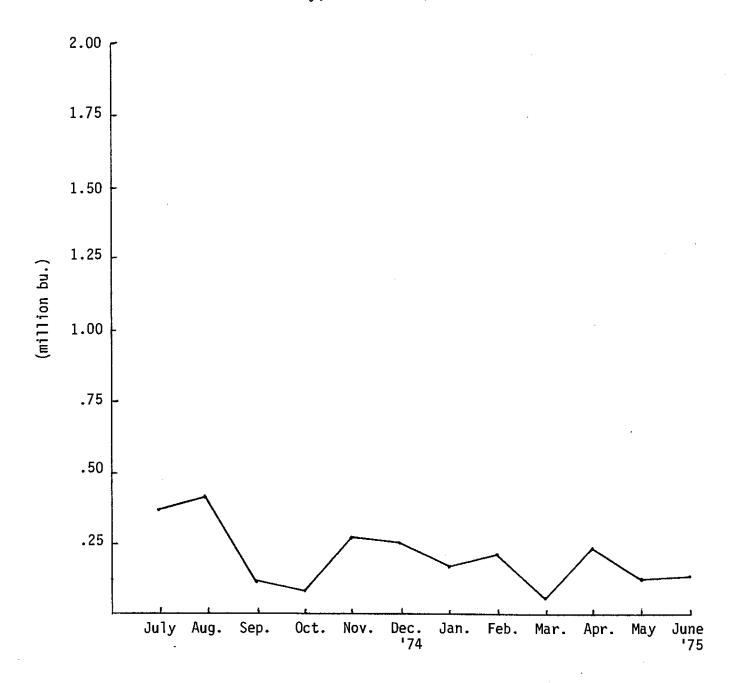
NORTH DAKOTA RYE SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

NORTH DAKOTA RYE SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

ROP REPORTING DISTRICT	1972-73	1973-74	1974-75
	(th	nousand bu.)	
1	549	449	59
2	357	531	221
3	161	134	87
4	150	127	147
5	509	1,144	347
6	377	605	209
7	369	477	71
8	225	154	103
9	2,312	4,102	1,170



NORTH DAKOTA RYE SHIPMENTS BY MONTH July, 1974 - June, 1975

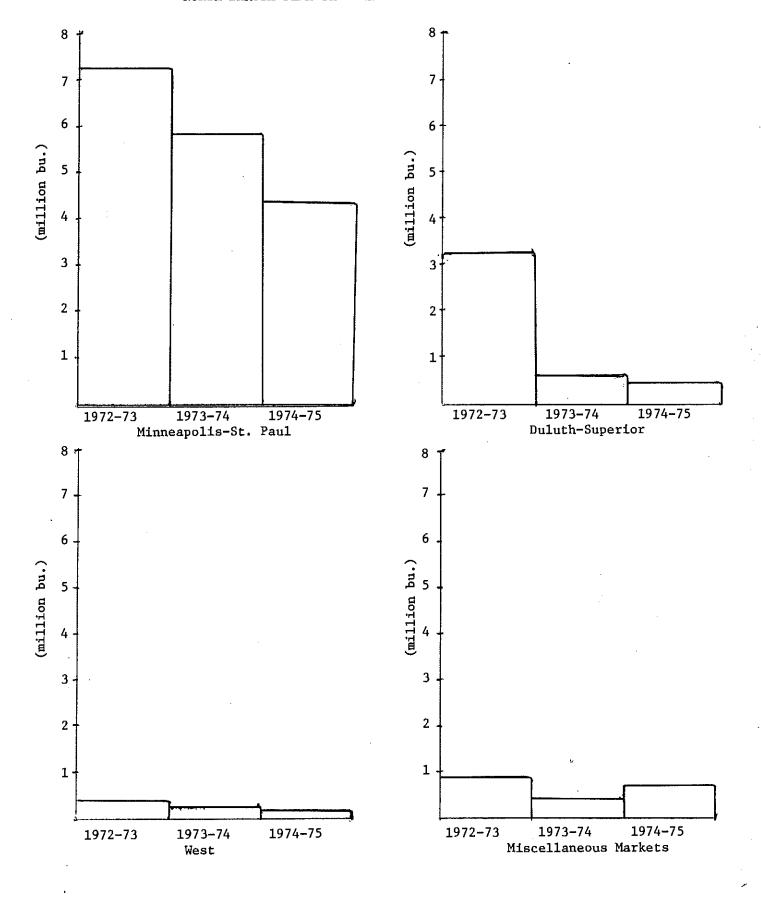


NORTH DAKOTA FLAX SHIPMENTS BY DESTINATION

NORTH DAKOTA FLAX SHIPMENTS BY DESTINATION

DESTINATION	1972-73	1973-74	1974-75
	(thousand bu.)	
MINNEAPOLIS-ST. PAUL	7,169	5,891	4,354
DULUTH-SUPERIOR	3,190	524	346
WEST	232	91	69
MISCELLANEOUS MARKETS	820	365	531

NORTH DAKOTA FLAX SHIPMENTS BY DESTINATION

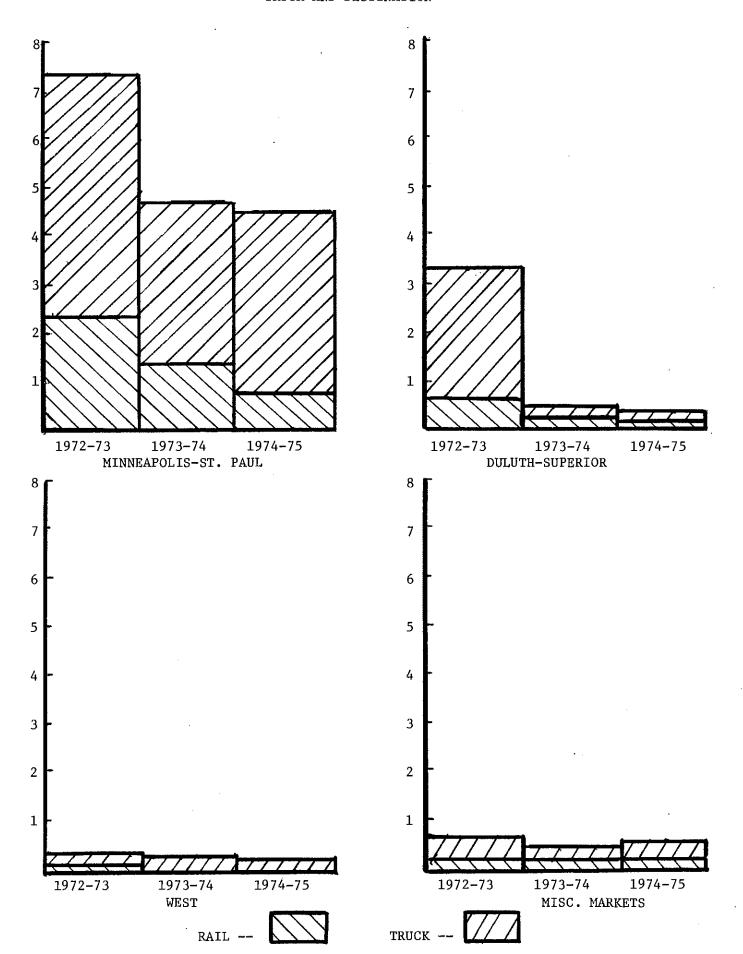


NORTH DAKOTA FLAX SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

NORTH DAKOTA FLAX SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	1972	-73	1973	-74	1974	- 75
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
			(thou	sand bu.)		
MINNST. PAUL	2,263	4,906	1,390	4,501	915	3,439
	(32%)	(68%)	(24%)	(76%)	(21%)	(79%)
DULUTH-SUPERIOR	814	2,376	195	329	55	291
	(26%)	(74%)	(37%)	(63%)	(16%)	(84%)
WEST	21	211	0	91	0	69
	(9%)	(91%)	(0%)	(100%)	(0%)	(100%)
MISC. MARKETS	86	734	62	303	78	453
	(10%)	(90%)	(17%)	(83%)	(15%)	(85%)

NORTH DAKOTA FLAX SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

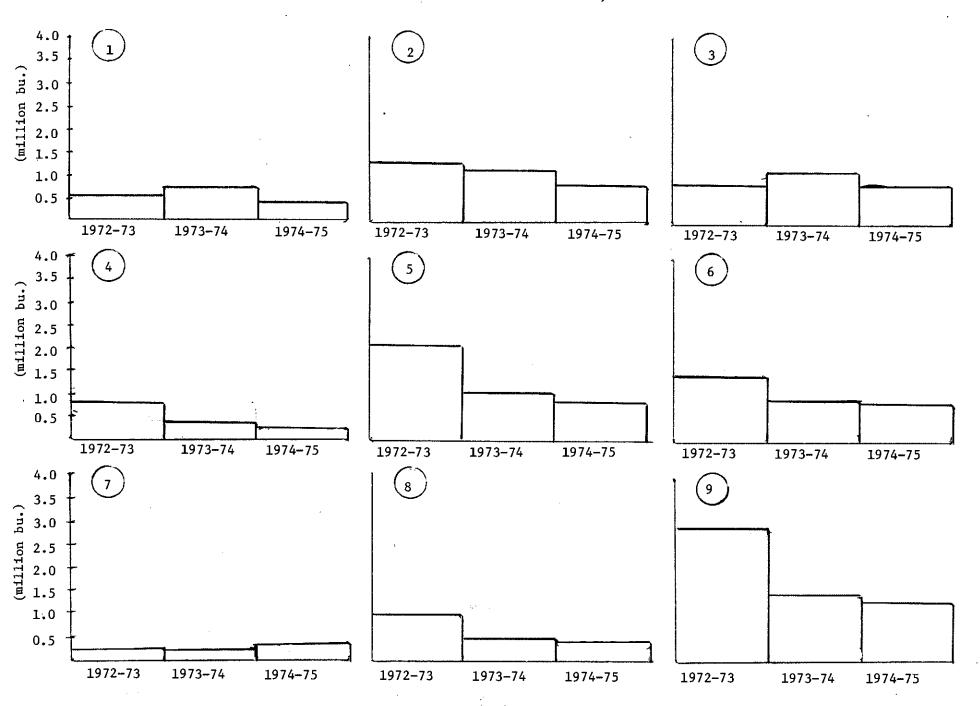


NORTH DAKOTA FLAX SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

NORTH DAKOTA FLAX SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

ROP REPORTING DISTRICT	1972-73	1973-74	1974-75		
•	(thousand bu.)				
1	527	652	426		
2	1,468	1,271	707		
3	962	1,011	703		
4	750	339	258		
5	2,278	1,061	806		
6	1,571	900	889		
7	74	67	78		
8	975	261	236		
9	2,806	1,309	1,196		

NORTH DAKOTA FLAX SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICTS)



NORTH DAKOTA FLAX SHIPMENTS BY MONTH July, 1974 - June, 1975

