NORTH DAKOTA GRAIN AND OILSEED TRANSPORTATION STATISTICS 1978-79

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NORTH DAKOTA GRAIN AND OILSEED TRANSPORTATION STATISTICS 1978-79

\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 analysis concerned with the patterns and methods of distributing grains and oilseeds 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 56, and Agricultural Experiment Station Bulletin 462. The compliation 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 grains and oilseeds 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 AND OILSEED TRANSPORTATION STATISTICS 1978-79

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 compliation of this type of data began in 1956-57. The objective of this report, like prior reports, is to provide the necessary data base for identifying trends in the distribution of grains and oilseeds 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 shipment, mode of shipment, origin of shipment, time of shipment, and commodity shipped. These characteristics are defined as follows:

Destination of shipment: 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, 1978 to June, 1979.

<u>Commodity shipped</u>: Hard red spring wheat, durum, barley, sunflowers, oats, rye, and flax.

Source of Data

The data used to analyze the North Dakota grain distribution pattern for the period July, 1978 through June, 1979, 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.

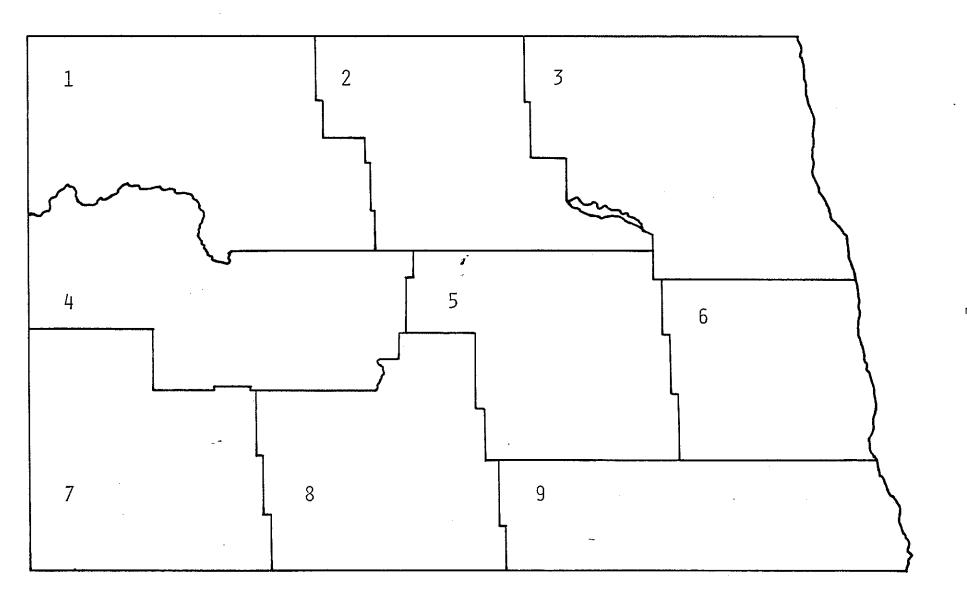
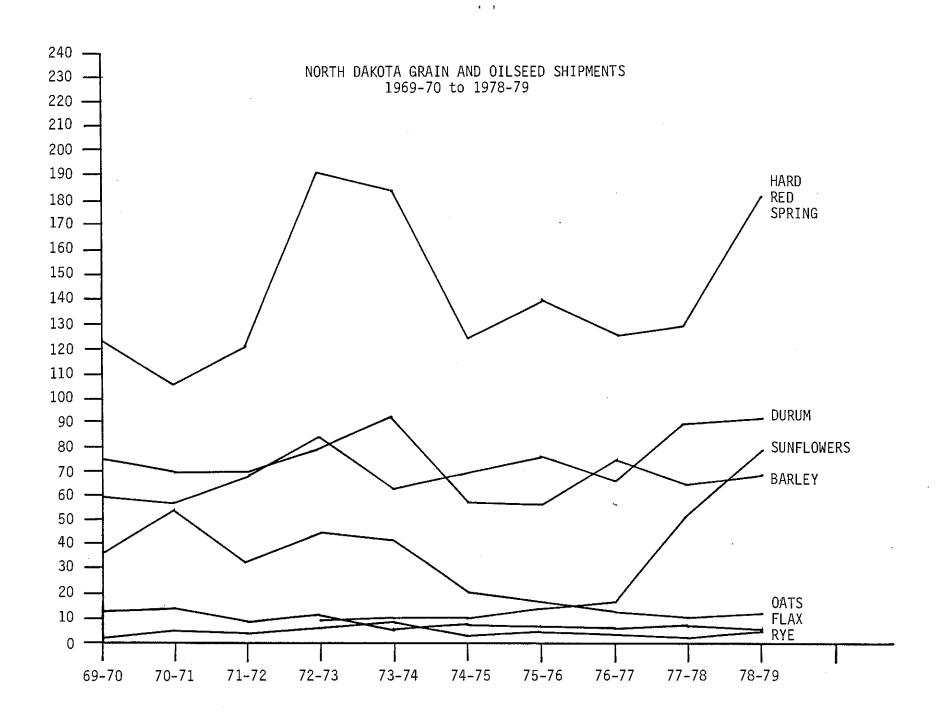


FIGURE 1. NORTH DAKOTA CROP REPORTING DISTRICTS

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, sunflowers, oats, rye, and flax, has its own major section. The sections are presented in the order just indicated.

GRAIN AND OILSEED MOVEMENTS



NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS^a 1969-70 to 1978-79

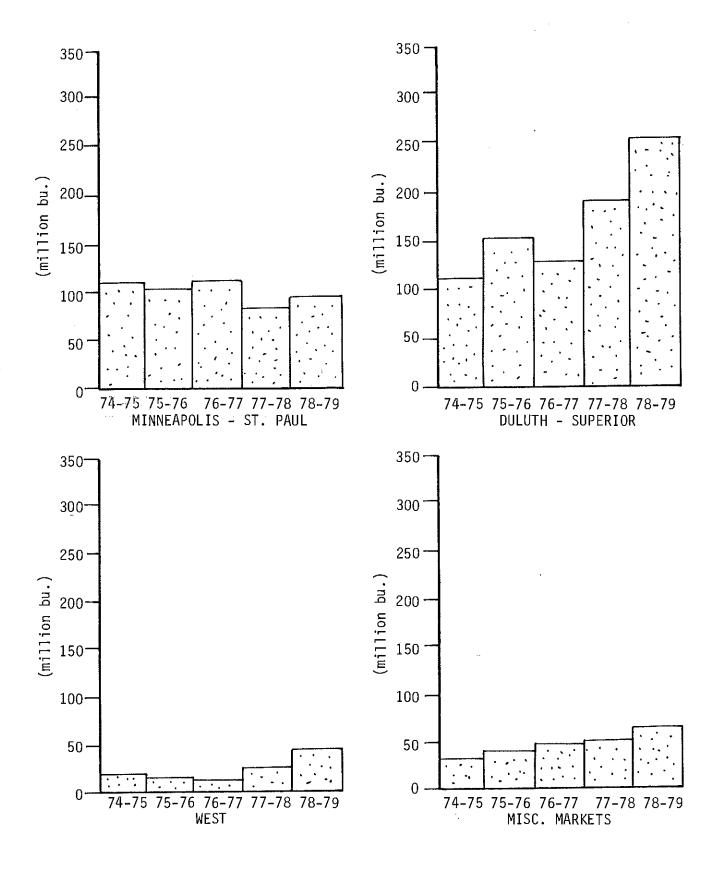
										
	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
		······································	<u></u>	(thous	sand bu.)		**************************************		······································	
HARD RED SPRING	120,330	105,800	119,944	191,696	183,567	122,934	139,361	123,976	127,953	184,923
	(39%)	(35%)	(40%)	(44%)	(45%)	(42%)	(44%)	(41%)	(36%)	(41%)
DURUM	58,540	57,317	66,184	83,351	60,758	68,781	74,817	65,024	88,366	88,659
	(19%)	(19%)	(22%)	(19%)	(15%)	(24%)	(23%)	(21%)	(25%)	(19%)
BARLEY	74,528	68,996	68,436	78,384	91,739	56,671	56,355	73,314	63,115	69,648
	(24%)	(23%)	(23%)	(18%)	(22%)	(19%)	(18%)	(24%)	(18%)	(15%)
SUNFLOWERS	N.A.	N.A.	N.A.	9,183 (2%)	9,246 (2%)	9,013 (3%)	14,554 (5%)	15,622 (5%)	51,278 (14%)	79,253 (17%)
OATS	37,008 (12%)	55,049 (18%)	32,009 (11%)	44,222 (10%)	41, 338 (10%)	19,322 (7%)	15,104 (5%)	12,158 (4%)	10,492 (3%)	12,087 (3%)
RYE	1,672	4,675	3,701	5,009	7,721	2,513	3,293	2,769	1,772	2,811
	(1%)	(2%)	(1%)	(1%)	(2%)	(1%)	(1%)	(1%)	(1%)	(1%)
FLAX SEED	13,133	13,540	8,796	11,411	6,871	5,300	6,590	4,883	6,174	4,541
	(4%)	(4%)	(3%)	(3%)	(2%)	(2%)	(2%)	(2%)	(2%)	(1%)
MISC.	N.A.	N.A.	N.A.	9,952 (2%)	10,141 (2%)	7,042 (2%)	10,211 (3%)	8,166 (3%)	9,454 (3%)	14,312 (3%)
TOTAL	305,211	305,377	299,070	433,208	411,381	291,582	320,285	305,912	358,604	456,234
	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)	(100%)

^aIncludes CCC shipments

NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79
-		(thousand	bu.)		
MINNEAPOLIS-ST. PAUL	108,093	104,900	109,620	85,231	93,353
	(39%)	(33%)	(36%)	(24%)	(20%)
DULUTH-SUPERIOR	109,585	152,514	128,044	192,925	250,653
	(40%)	(48%)	(42%)	(54%)	(55%)
WEST	23,827	22,031	20,823	29,031	46,413
	(9%)	(7%)	(7%)	(8%)	(10%)
MISCELLANEOUS MARKETS	33,982	40,840	47,425	51,417	65,814
	(12%)	(13%)	(16%)	(14%)	(14%)
TOTAL .	275,487	320,285	305,912	358,604	456,233
	(100%)	(100%)	(100%)	(100%)	(100%)

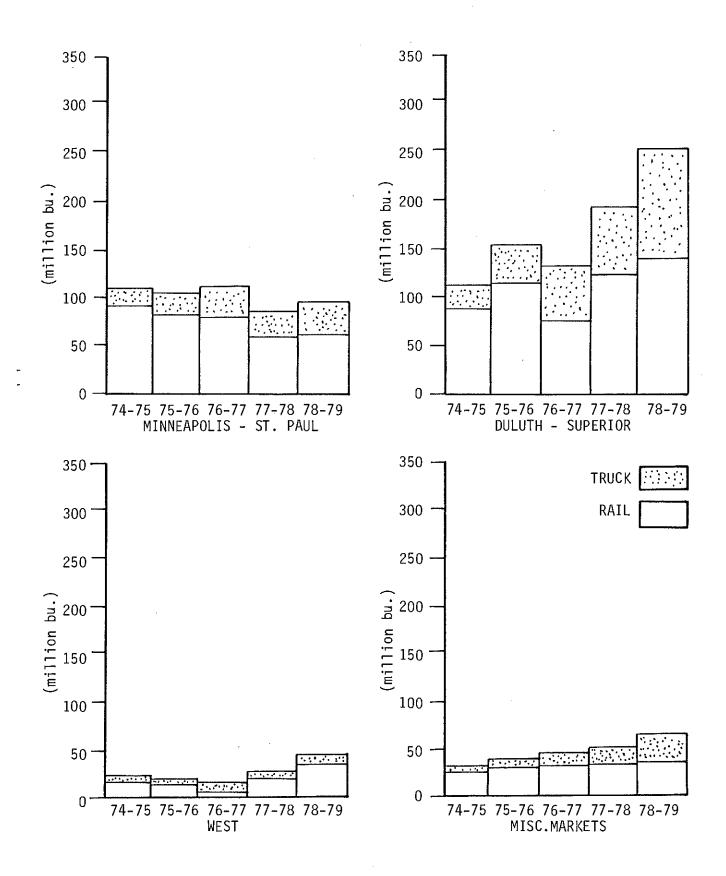
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY DESTINATION 1974-75 to 1978-79



NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	197	4-75	197	5-76	197	6-77	197	7-78	197	8-79
DESTINATION	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
				(thousa	nd bu.)	— — — — — — — — — — — — — — — — —				
MINNST. PAUL	90,556	17,537	83 , 290	21,610	82,764	26,856	60,859	24,372	61,186	32,168
	(84%)	(16%)	(79%)	(21%)	(76%)	(24%)	(71%)	(29%)	(66%)	(34%)
DULUTH-SUPERIOR	88,428	21,157	110,012	42,502	80,207	47,837	121,899	71,025	140,112	110,541
	(81%)	(19%)	(72%)	(28%)	(63%)	(37%)	(63%)	(37%)	(56%)	(44%)
WEST	17,148	6,679	15,376	6,654	11,703	9,120	19,386	9,645	33,461	12,952
	(72%)	(28%)	(70%)	(30%)	(56%)	(44%)	(67%)	(33%)	(72%)	(28%)
MISC. MARKETS	25,790	8,192	27,813	13,027	30,455	16,970	33,034	18,384	36,310	29,504
	(76%)	(24%)	(68%)	(32%)	(64%)	(36%)	(64%)	(36%)	(55%)	(45%)
TOTAL	221,922	53,565	236,491	83,793	205,129	100,783	235,178	123,426	271,069	185,165
	(81%)	(19%)	(74%)	(26%)	(67%)	(33%)	(66%)	(34%)	(59%)	(41%)

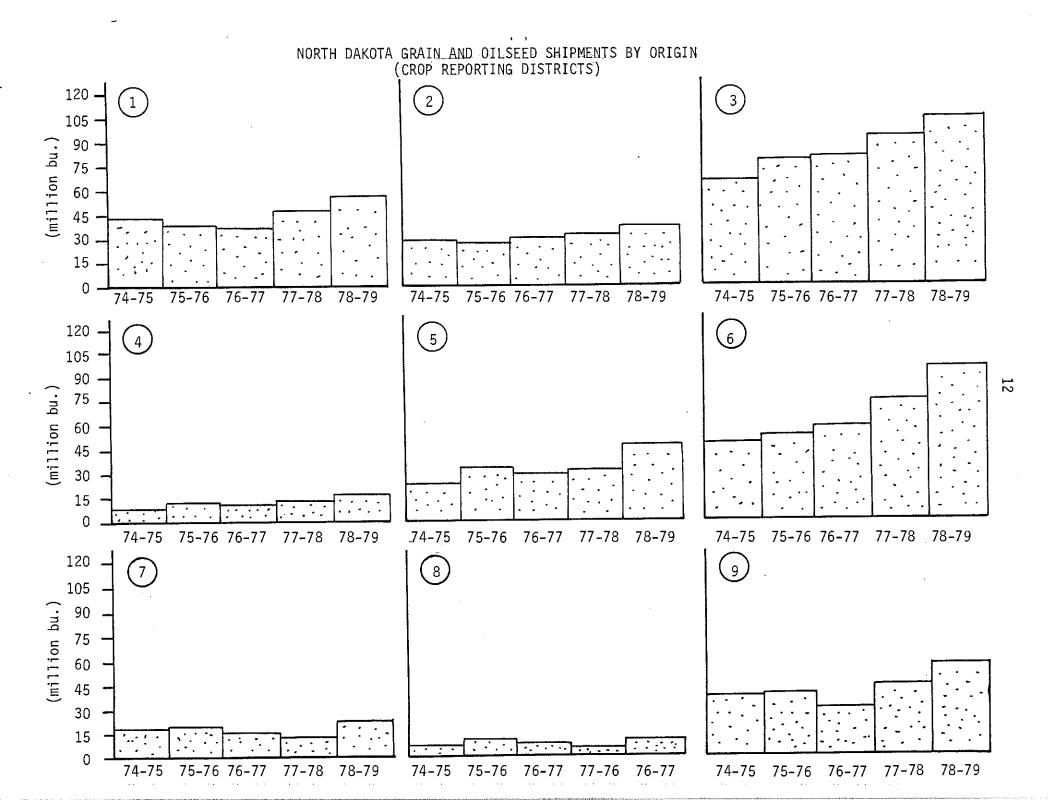
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION



NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)^a

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
	-	(thousand b	u.)		
1	44,971	39,254	38,628	47,881	55,802
	(15%)	(12%)	(13%)	(13%)	(12%)
2	28,141	27,362	29,421	32,552	38,668
	(10%)	(9%)	(10%)	(9%)	(8%)
3	65,398	78,193	80,085	92,607	103,393
	(22%)	(24%)	(26%)	(26%)	(23%)
4	10,852	13,941	13,315	14,323	17,394
	(4%)	(4%)	(4%)	(4%)	(4%)
5	25 , 997	33,031	29,763	32 , 575	49,133
	(9%)	(10%)	(10%)	(9%)	(11%)
6	50,683	55,875	58,924	74,423	97,722
	(17%)	(17%)	(19%)	(21%)	(21%)
7	19,533	20,044	17,044	14,150	23,776
	(7%)	(6%)	(6%)	(4%)	(5%)
8	7,696	12,834	9,454	6,373	12,099
	(3%)	(4%)	(3%)	(2%)	(3%)
9	38,311	39,748	29,280	43,721	58,249
	(13%)	(12%)	(10%)	(12%)	(13%)
Total	291,582	320,282	305,914	358,605	456,236
	(100%)	(100%)	(100%)	(100%)	(100%)

^aIncludes hard red spring, durum, sunflowers, barley, oats, rye, flax, and miscellaneous commodities.

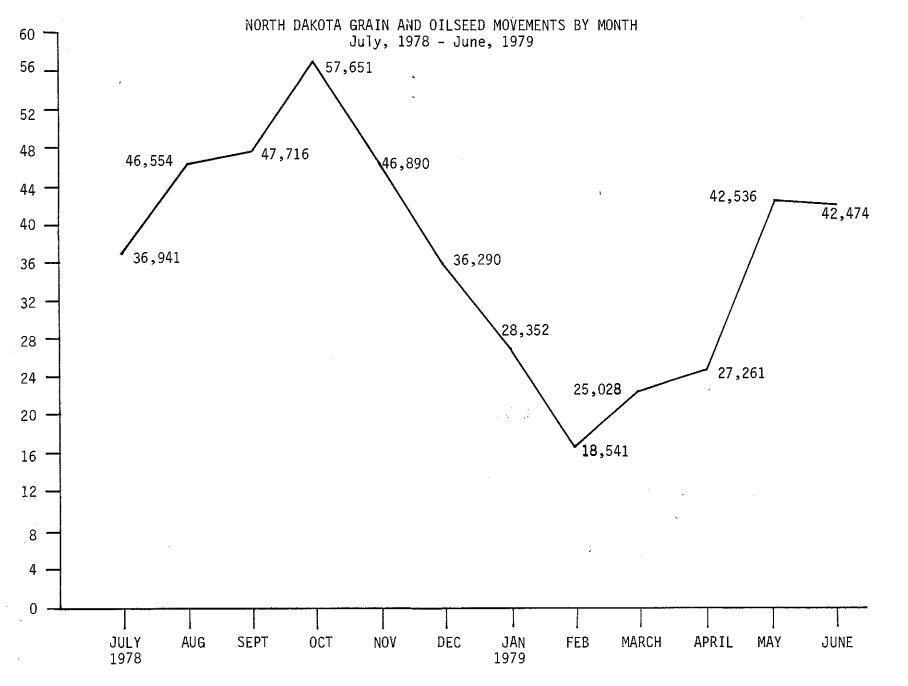


NORTH DAKOTA GRAIN AND OILSEED MOVEMENT BY MONTH

July 1978 - June 1979

Hard Red Spring	Durum	Barley	Sunflowers	Oats	Rye	Flaxseed	Misc.	Total
			(thousand	bu.)				
18,227	8,279	5,876	N.A.	1,253	298	393	2,565	36,941
22,848	11,234	7,957	N.A.	2,211	626	227	1,451	46,554
19,785	12,778	7,411	N.A.	1,430	250	811	5,251	47,716
12,465	10,425	3,526	N.A.	716	165	431	29,923	57,651
17,340	7,590	4,127	N.A.	704	172	558	16,399	46,890
13,718	4,327	7,838	N.A.	1,045	314	415	8,633	36,290
10,918	4,453	5,050	4,691	1,233	168	449	1,390	28,352
6,757	3,813	3,504	2,415	715	103	272	962	18,541
10,437	5,017	4,606	2,549	758	110	305	1,246	25,028
11,711	5,444	4,730	3,288	592	163	175	1,158	27,261
20,942	6,489	7,139	5,412	743	219	291	1,301	42,536
19,774	8,811	7,884	3,474	688	223	214	1,406	42,474
	Red Spring 18,227 22,848 19,785 12,465 17,340 13,718 10,918 6,757 10,437 11,711 20,942	Red Spring 18,227 8,279 22,848 11,234 19,785 12,778 12,465 10,425 17,340 7,590 13,718 4,327 10,918 4,453 6,757 3,813 10,437 5,017 11,711 5,444 20,942 6,489	Red Spring 18,227 8,279 5,876 22,848 11,234 7,957 19,785 12,778 7,411 12,465 10,425 3,526 17,340 7,590 4,127 13,718 4,327 7,838 10,918 4,453 5,050 6,757 3,813 3,504 10,437 5,017 4,606 11,711 5,444 4,730 20,942 6,489 7,139	Red Spring (thousand 18,227 8,279 5,876 N.A. 22,848 11,234 7,957 N.A. 19,785 12,778 7,411 N.A. 12,465 10,425 3,526 N.A. 17,340 7,590 4,127 N.A. 13,718 4,327 7,838 N.A. 10,918 4,453 5,050 4,691 6,757 3,813 3,504 2,415 10,437 5,017 4,606 2,549 11,711 5,444 4,730 3,288 20,942 6,489 7,139 5,412	Red Spring (thousand bu.) 18,227 8,279 5,876 N.A. 1,253 22,848 11,234 7,957 N.A. 2,211 19,785 12,778 7,411 N.A. 1,430 12,465 10,425 3,526 N.A. 716 17,340 7,590 4,127 N.A. 704 13,718 4,327 7,838 N.A. 1,045 10,918 4,453 5,050 4,691 1,233 6,757 3,813 3,504 2,415 715 10,437 5,017 4,606 2,549 758 11,711 5,444 4,730 3,288 592 20,942 6,489 7,139 5,412 743	Red Spring (thousand bu.) 18,227 8,279 5,876 N.A. 1,253 298 22,848 11,234 7,957 N.A. 2,211 626 19,785 12,778 7,411 N.A. 1,430 250 12,465 10,425 3,526 N.A. 716 165 17,340 7,590 4,127 N.A. 704 172 13,718 4,327 7,838 N.A. 1,045 314 10,918 4,453 5,050 4,691 1,233 168 6,757 3,813 3,504 2,415 715 103 10,437 5,017 4,606 2,549 758 110 11,711 5,444 4,730 3,288 592 163 20,942 6,489 7,139 5,412 743 219	Red Spring (thousand bu.) 18,227 8,279 5,876 N.A. 1,253 298 393 22,848 11,234 7,957 N.A. 2,211 626 227 19,785 12,778 7,411 N.A. 1,430 250 811 12,465 10,425 3,526 N.A. 716 165 431 17,340 7,590 4,127 N.A. 704 172 558 13,718 4,327 7,838 N.A. 1,045 314 415 10,918 4,453 5,050 4,691 1,233 168 449 6,757 3,813 3,504 2,415 715 103 272 10,437 5,017 4,606 2,549 758 110 305 11,711 5,444 4,730 3,288 592 163 175 20,942 6,489 7,139 5,412 743 219 291	Red Spring (thousand bu.) 18,227 8,279 5,876 N.A. 1,253 298 393 2,565 22,848 11,234 7,957 N.A. 2,211 626 227 1,451 19,785 12,778 7,411 N.A. 1,430 250 811 5,251 12,465 10,425 3,526 N.A. 716 165 431 29,923 17,340 7,590 4,127 N.A. 704 172 558 16,399 13,718 4,327 7,838 N.A. 1,045 314 415 8,633 10,918 4,453 5,050 4,691 1,233 168 449 1,390 6,757 3,813 3,504 2,415 715 103 272 962 10,437 5,017 4,606 2,549 758 110 305 1,246 11,711 5,444 4,730 3,288 592 163 175 1,158 20,942 6,489 7,139 5,412 743 219 291 1,301



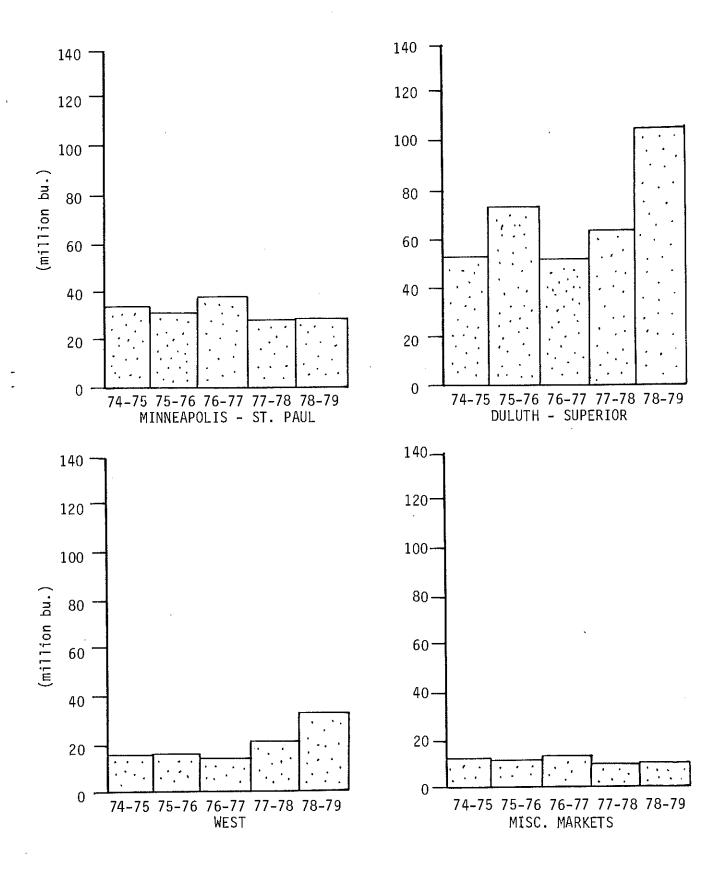


HARD RED SPRING WHEAT MOVEMENTS

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	
MINNEAPOLIS-ST. PAUL	35,485 (29%)	32,855 (24%)	38,230 (31%)	28,199 (22%)	28,846 (16%)	
DULUTH-SUPERIOR	54,419 (44%)	74,467 (53%)	53,419 (43%)	65,832 (51%)	108,717 (59%)	
WEST	17,713 (14%)	17,788 (13%)	16,675 (13%)	21,502 (17%)	34,818 (19%)	
MISCELLANEOUS MARKETS	15,317 (12%)	14,253 (10%)	15,651 (13%)	12,420 (10%)	12,542 (7%)	
TOTAL	122,934 (100%)	139,363 (100%)	123,975 (100%)	127,953 (100%)	184,923 (100%)	

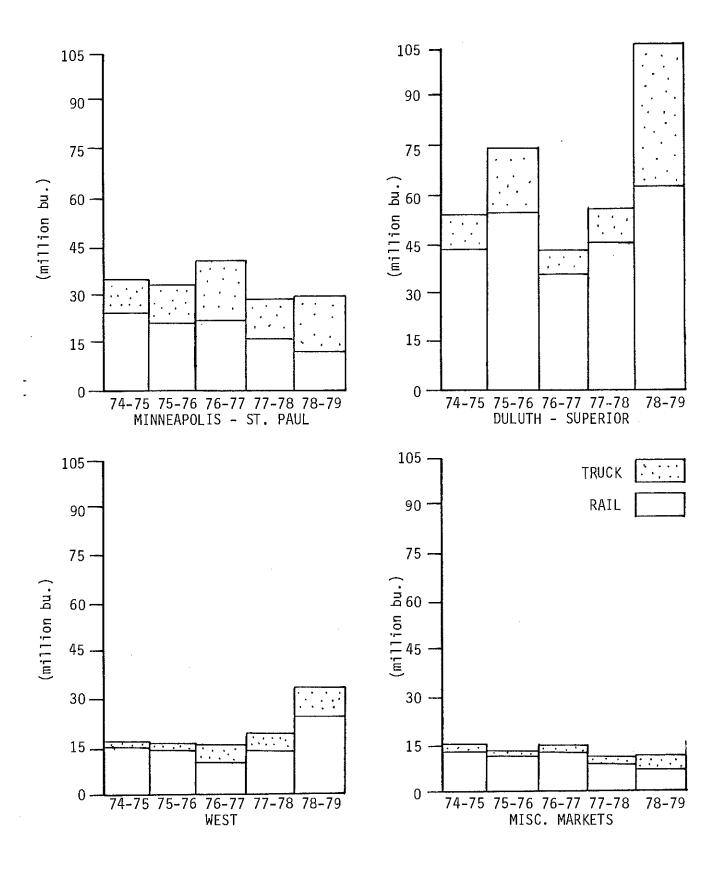
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY DESTINATION



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

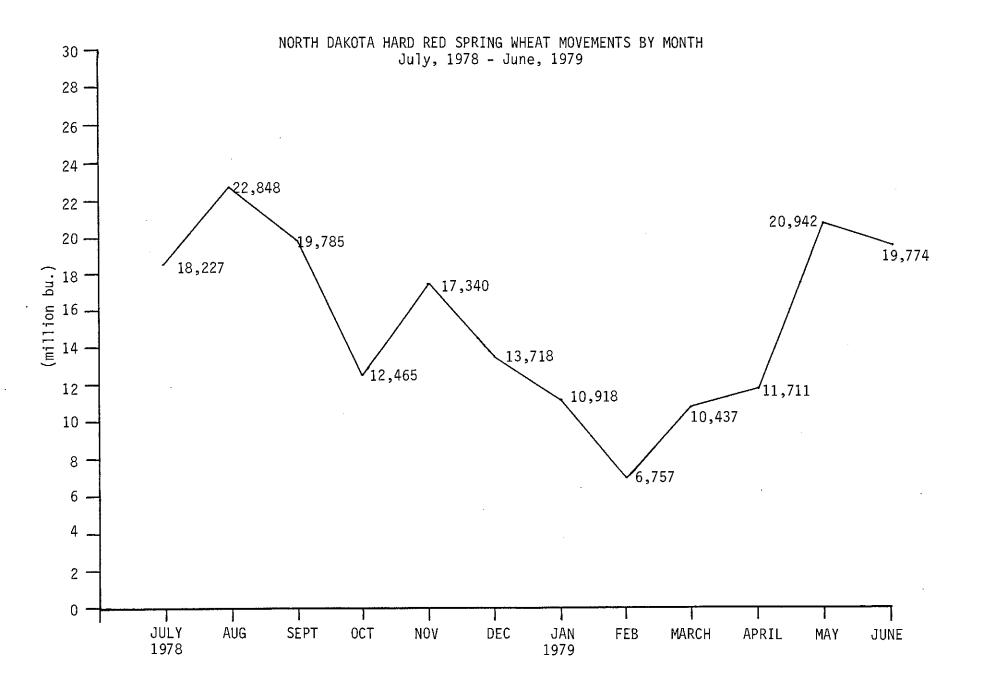
	197.4	- 75	1975-	-76	1976-	-77	1977-78		1978-79	
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
				(thou	sand bu.)				8 2 11 2 2 11 11 11 11 11 11 11 11 11 11	
MINN ST. PAUL	25,518	9,967	21,832	11,023	22,206	16,024	16,211	11,988	12,762	16,084
	(72%)	(28%)	(66%)	(34%)	(58%)	(42%)	(57%)	(43%)	(44%)	(56%)
DULUTH - SUPERIOR	44,216	10,203	54,310	20,157	37,140	16,280	46,283	19,548	64,230	44,487
	(81%)	(19%)	(73%)	(27%)	(70%)	(30%)	(70%)	(30%)	(59%)	(41%)
WEST	15,566	2,147	14,261	3,52 7	10,629	6,047	14,630	6,873	24,389	10,429
	(88%)	(12%)	(80%)	(20%)	(64%)	(36%)	(68%)	(32%)	(70%)	(30%)
MISC. MARKETS	12,184	3,132	11,421	2,832	12,249	3,402	9,385	3,035	7,429	5,114
	(80%)	(20%)	(80%)	(20%)	(78%)	(22%)	(76%)	(24%)	(59%)	(41%)
TOTAL	97,484 (79%)	25,449 (21%)	101,824 (73%)	37,539 (27%)	82,224 (66%)	41,753 (33%)	86,509 (68%)	41,444 (32%)	108,810 (59%)	76,114 (41%)

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)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	
		(thousand	l bu.)		······································	
1	14,472	13,179	12,657	15,009	19,640	
2	6,279	7,872	6,807	7,370	10,028	
3	22,893	27,698	24,053	27,331	38,757	
4	6,955	8,821	8,209	8,477	11,116	
5	11,473	15,695	15,253	12,521	18,546	
6	21,393	22,962	22,000	25,013	35,435	
7	16,138	16,422	14,182	11,563	20,117	
8	6,609	9,993	7,782	5,567	10,317	
9	16,720	16,720	13,033	15,103	20,977	
TOTAL	122,932	139,362	123,976	127,954	184,923	
• •						

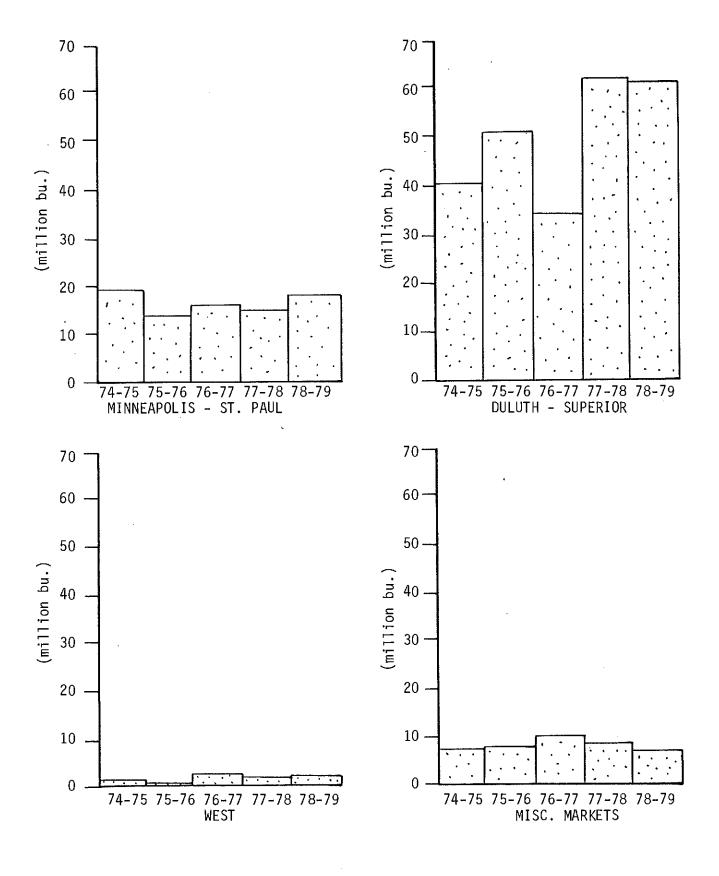


DURUM WHEAT MOVEMENTS

NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79
	······································	(thousand b	1.)		
MINNEAPOLIS-ST. PAUL	19,455	14,905	17,024	16,478	18,797
	(28%)	(20%)	(26%)	(19%)	(21%)
DULUTH-SUPERIOR	40,728	51,553	35,537	61,990	60,973
	(59%)	(69%)	(55%)	(70%)	(69%)
WEST	847	434	1,636	1,339	1,545
	(1%)	(1%)	(3%)	(2%)	(29%)
MISCELLANEOUS MARKETS	7,751	7,925	10,827	8,559	7,345
	(11%)	(11%)	(17%)	(10%)	(8%)
TOTAL	68,781	74,817	65,024	88,366	88,660
	(100%)	(100%)	(100%)	(100%)	(100%)

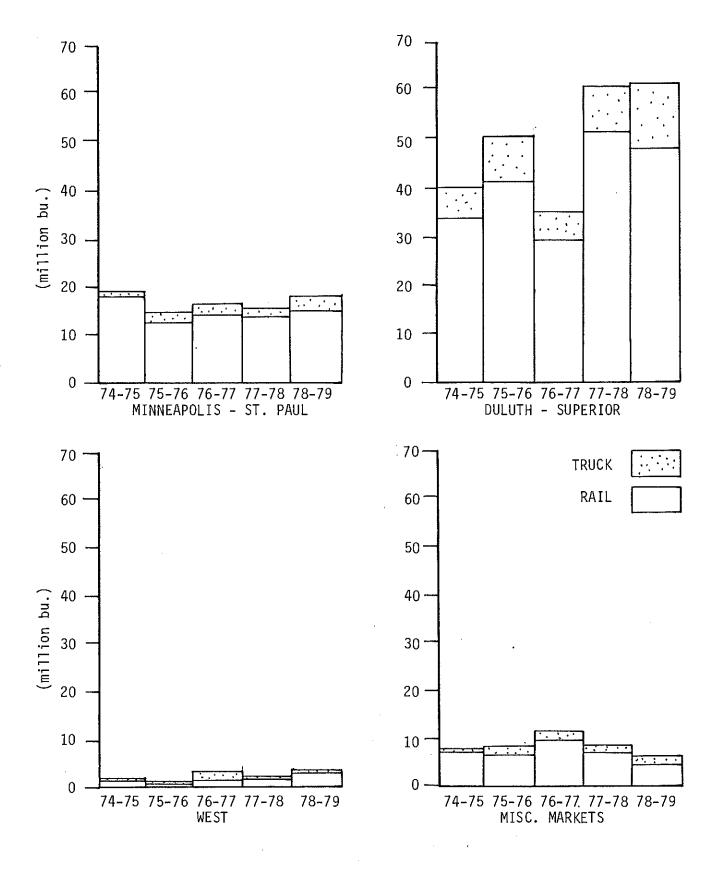
NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION



NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

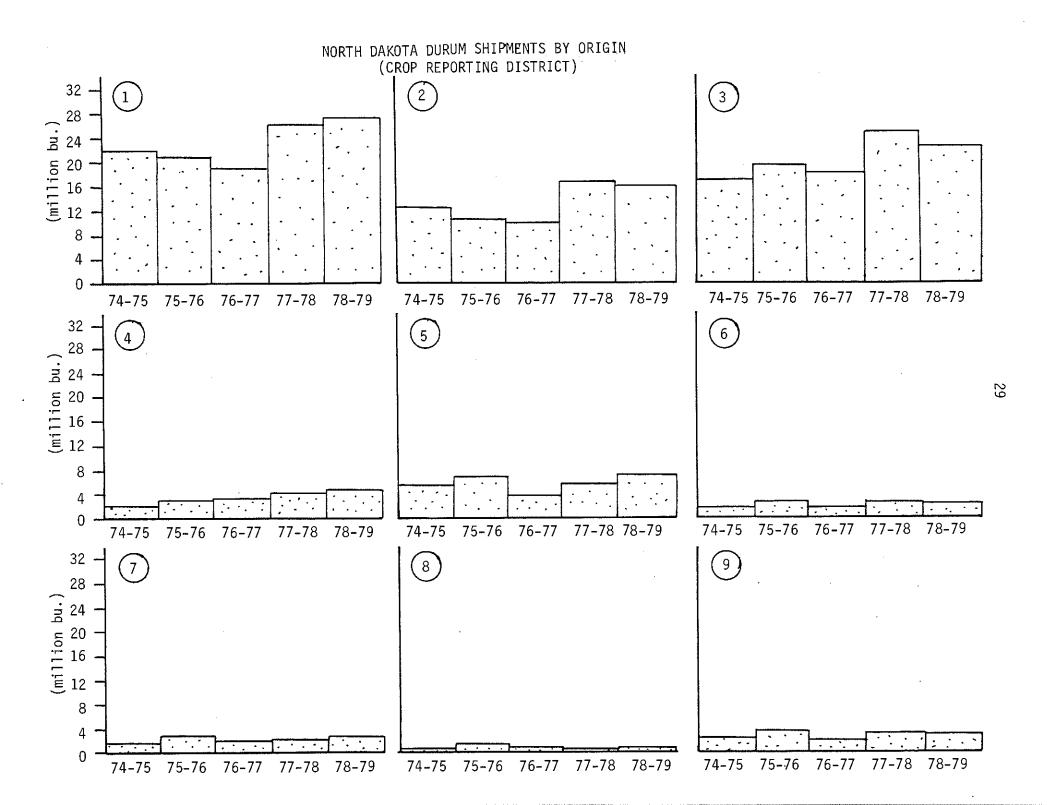
	1974-75		1975	-76	1976	-77	1977	- 78	1978	-79	
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	
		<u></u>		(thou	sand bu.)						
MINN ST. PAUL	18,489 (95%)	966 (5%)	12,790 (86%)	2,115 (14%)	14,664 (86%)	2,360 (14%)	14,576 (88%)	1,902 (12%)	15,950 (85%)	2,847 (15%)	
DULUTH - SUPERIOR	35,770 (88%)	4,957 (12%)	42,620 (83%)	8,933 (17%)	29,747 (84%)	5,790 (16%)	52,552 (85%)	9,438 (15%)	47,950 (79%)	13,023 (21%)	
WEST	608 (72%)	239 (28%)	263 (61%)	171 (39%)	481 (29%)	1,155 (71%)	871 (65%)	468 (35%)	1,341 (87%)	203 (13%)	26
MISC. MARKETS	7,505 (97%)	246 (3%)	7,184 (91%)	7 41 (9%)	9,681 (89%)	1,147 (11%)	7,419 (87%)	1,139 (13%)	5,797 (79%)	1,548 (21%)	
TOTAL	62,372 (91%)	6,408 (9%)	62,857 (84%)	11,960 (16%)	5 4, 573 (84%)	10,452 (16%)	75,418 (85%)	12,947 (15%)	71,038 (80%)	17,621 (20%)	

NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

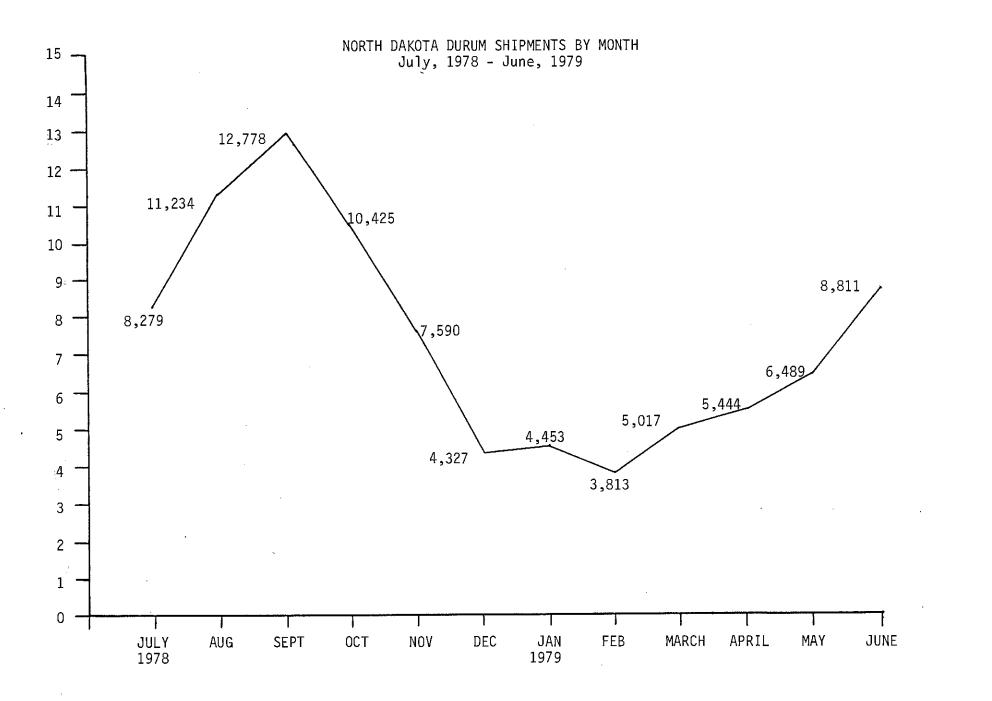


NORTH DAKOTA DURUM SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
		(thousand	ou.)		
1	22,973	21,573	19,420	26,813	27,496
2	12,685	11,404	11,279	16,378	16,256
3	17,326	19,272	18,168	25,707	22,902
4	2,717	3,696	3,728	4,449	4,808
5	5,466	7,270	4,960	5,945	7,269
6	2,555	3,558	2,573	3,269	3,251
7	1,871	2,844	2,013	2,071	2,755
8	543	1,331	760	469	728
9	2,642	3,870	2,123	3,266	3,197
TOTAL	68,778	74,818	65,024	88,367	88,662





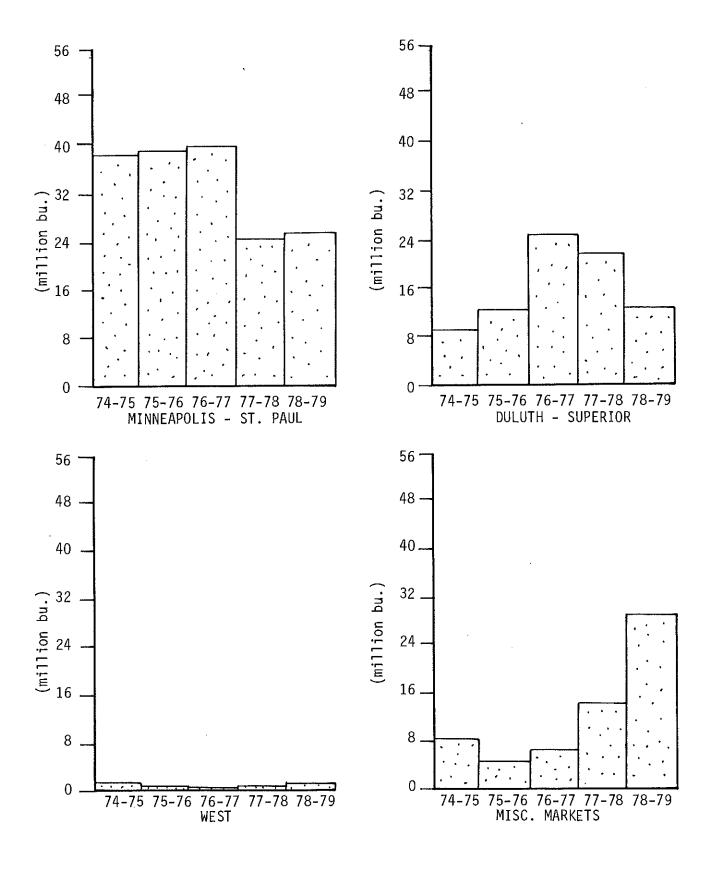


BARLEY MOVEMENTS

_NORTH DAKOTA BARLEY SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79
		(thousand bu.)		
MINNEAPOLIS - ST. PAUL	37,461	38,710	39,728	25,006	27,092
	(66%)	(69%)	(54%)	(40%)	(39%)
DULUTH - SUPERIOR	9,204	12,346	26,672	22,394	12,786
	(16%)	(22%)	(36%)	(35%)	(18%)
WEST	1,652	893	126	792	1,204
	(3%)	(2%)	(1%)	(1%)	(2%)
MISCELLANEOUS MARKETS	8,360	4,405	6,788	14,923	28,566
	(15%)	(8%)	(9%)	(24%)	(41%)
TOTAL	56,677	56,354	73,314	63,115	69,648
	(100%)	(100%)	(100%)	(100%)	(100%)

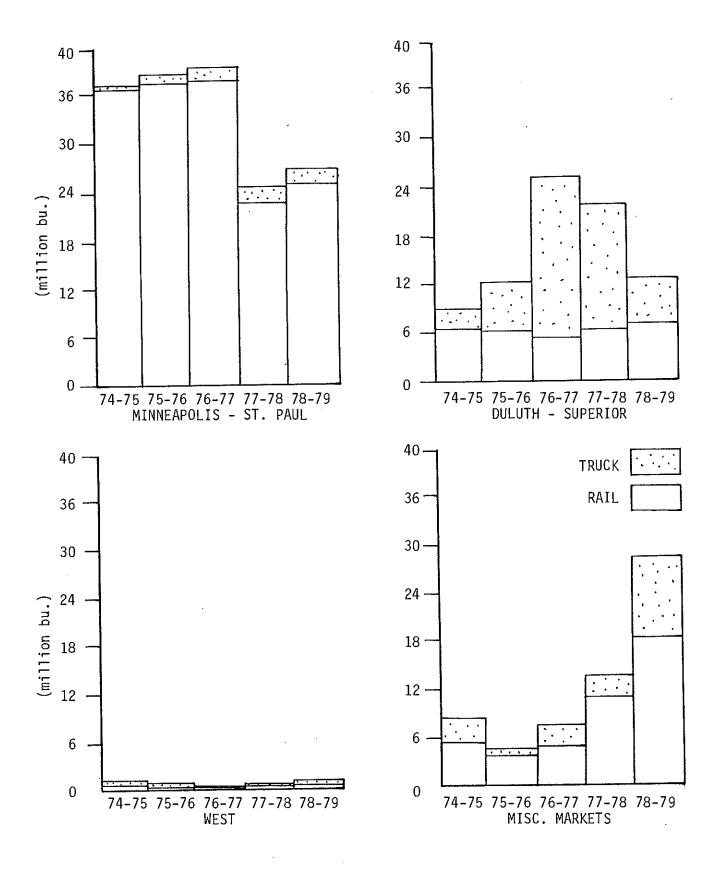
NORTH DAKOTA BARLEY SHIPMENTS BY DESTINATION



NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

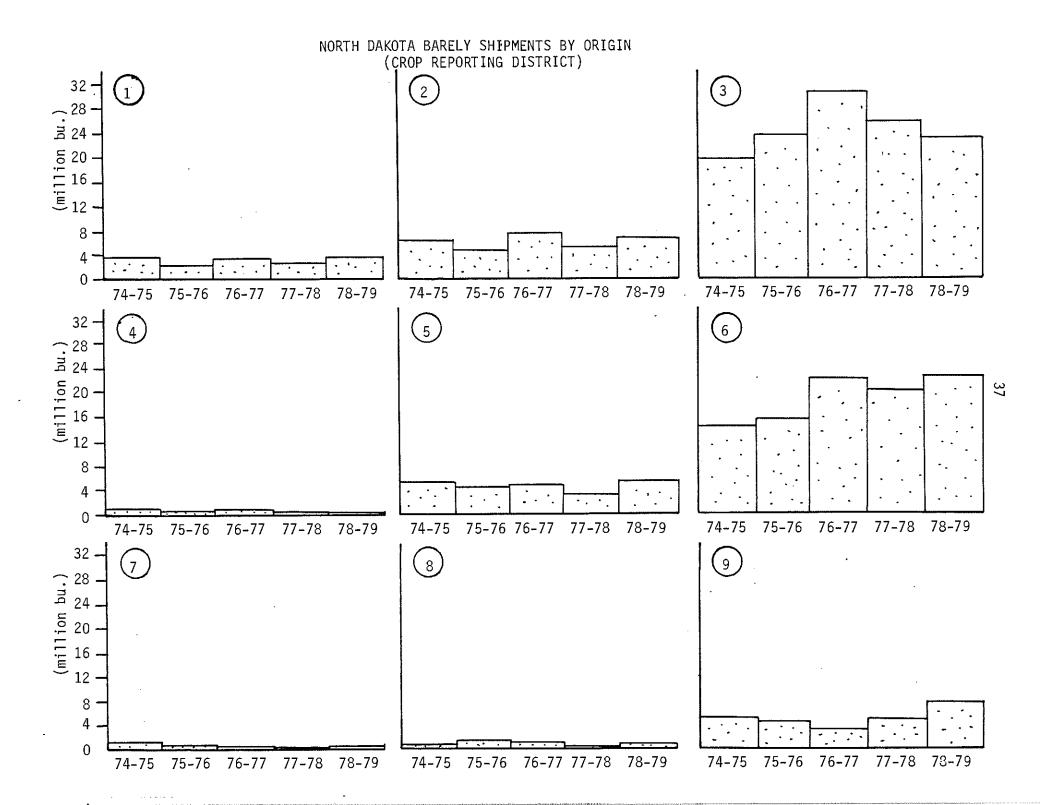
	1974-75		1975	-76	1976-77		1977	-78	1978	- 79
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
				(thousa	nd bu.)		***************************************			
MINN St. Paul	36,783	678	37,566	1,144	37,974	1,753	23,111	1,895	25,414	1,678
	(98%)	(2%)	(97%)	(3%)	(96%)	(4%)	(92%)	(8%)	(94%)	(6%)
DULUTH - SUPERIOR	6,235	2,969	6,331	6,015	5,792	20,880	6,145	16,249	7,578	5,210
	(68%)	(32%)	(51%)	(49%)	(22%)	(78%)	(27%)	(73%)	(59%)	(41%)
WEST	646	1,006	128	765	74	52	323	469	677	527
	(39%)	(61%)	(14%)	(86%)	(58%)	(42%)	(41%)	(59%)	(56%)	(44%)
MISC. MARKETS	5,607	2,753	3,411	994	4,329	2,459	11,583	3,340	18,656	9,910
	(67%)	(33%)	(77%)	(23%)	(64%)	(36%)	(88%)	(22%)	(65%)	(35%)
TOTAL	49,271	7,406	47,436	8,918	48,169	25,144	41,162	21,953	52,325	17,325
	(87%)	(23%)	(84%)	(16%)	(66%)	(34%)	(65%)	(35%)	(75%)	(25%)

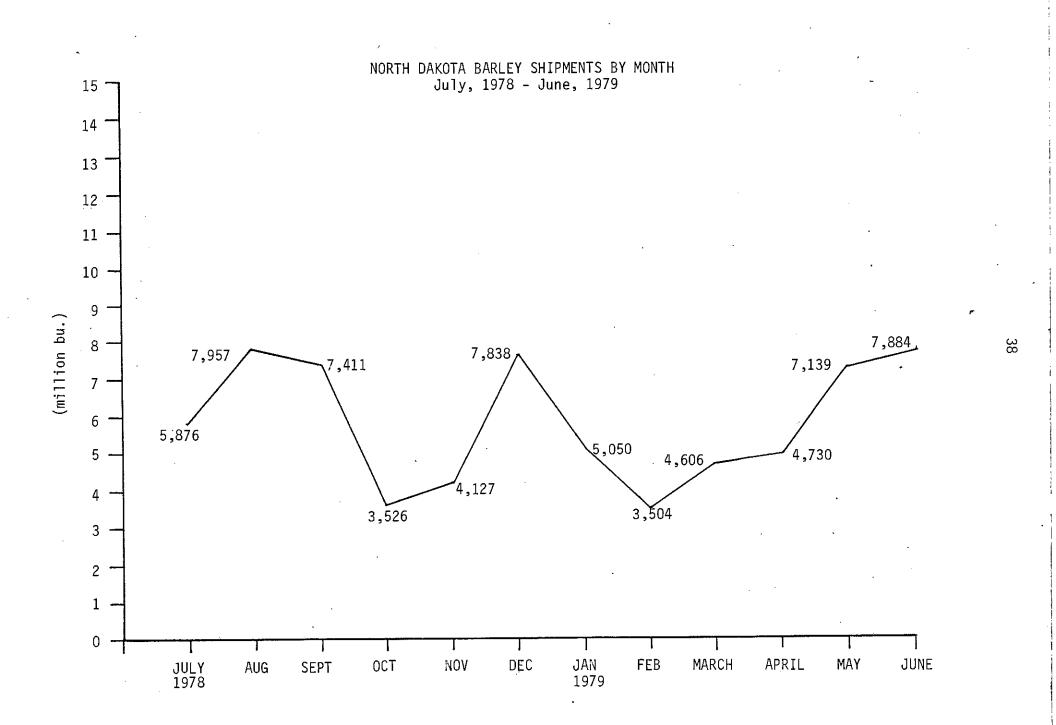
NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION



NORTH DAKOTA BARLEY SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
		(thousand b	u.)		** ***********************************
1	3,813	2,183	3,229	2,502	3,515
2	6,023	4,621	7,761	5,220	6,930
3	19,947	23,698	30,727	25,417	23,449
4	462	339	345	175	164
5	5,321	4,439	4,773	3,682	5,423
6	14,602	15,619	22,440	20,258	22,739
7	1,075	386	300	94	120
8	136	342	237	20	122
9	5,294	4,728	3,501	5,747	7,185
TOTAL	56,673	56,355	73,313	63,115	69,647

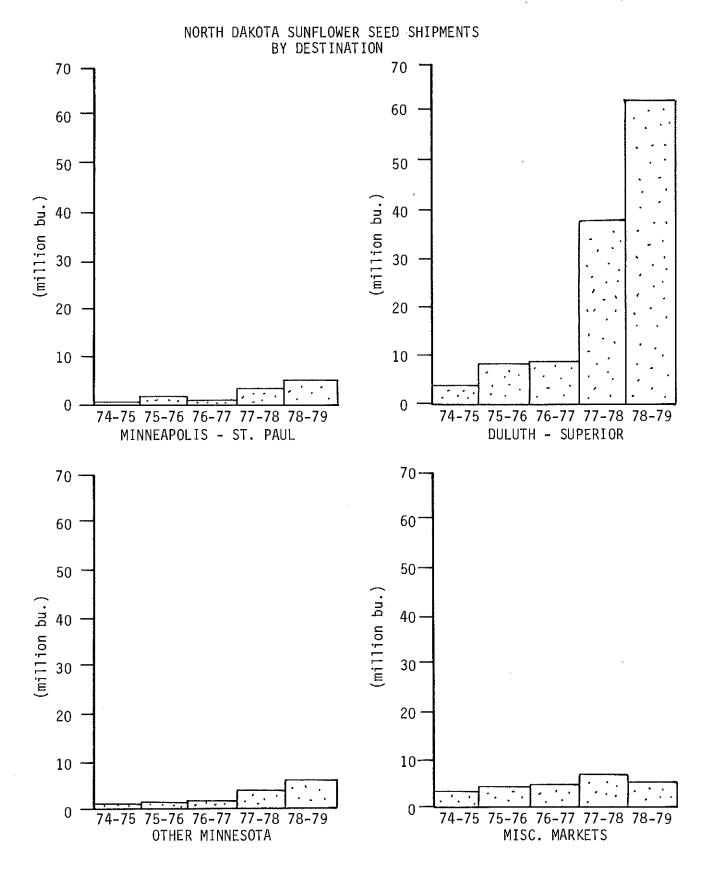




SUNFLOWER SEED MOVEMENTS

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY DESTINATION

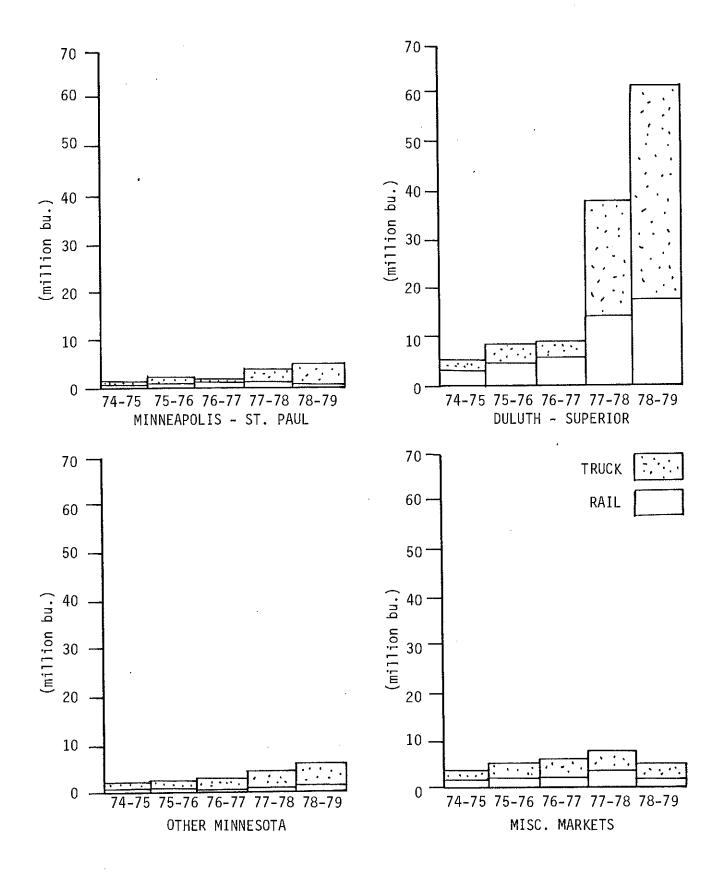
DESTINATION	1974 - 75	1975 - 76	1976 - 77	1977 - 78	1978 - 79
		(thousand bu.))		
MINNEAPOLIS - ST. PAUL	. 401	1,158	863	2,992	4,790
	(4%)	(8%)	(6%)	(6%)	(6%)
DULUTH - SUPERIOR	3,932	8,083	8,693	38,019	63,178
	(44%)	(56%)	(56%)	(74%)	(80%)
OTHER MINNESOTA	1,075	1,147	1,369	3,220	5,608
	(12%)	(8%)	(9%)	(6%)	(7%)
MISC. MARKETS	3,605	4,166	4,697	7,047	5,677
	(40%)	(27%)	(30%)	(14%)	(7%)
TOTAL	9,013	14,554	15,622	51,278	79,253
	(100%)	(100%)	(100%)	(100%)	(100%)



NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

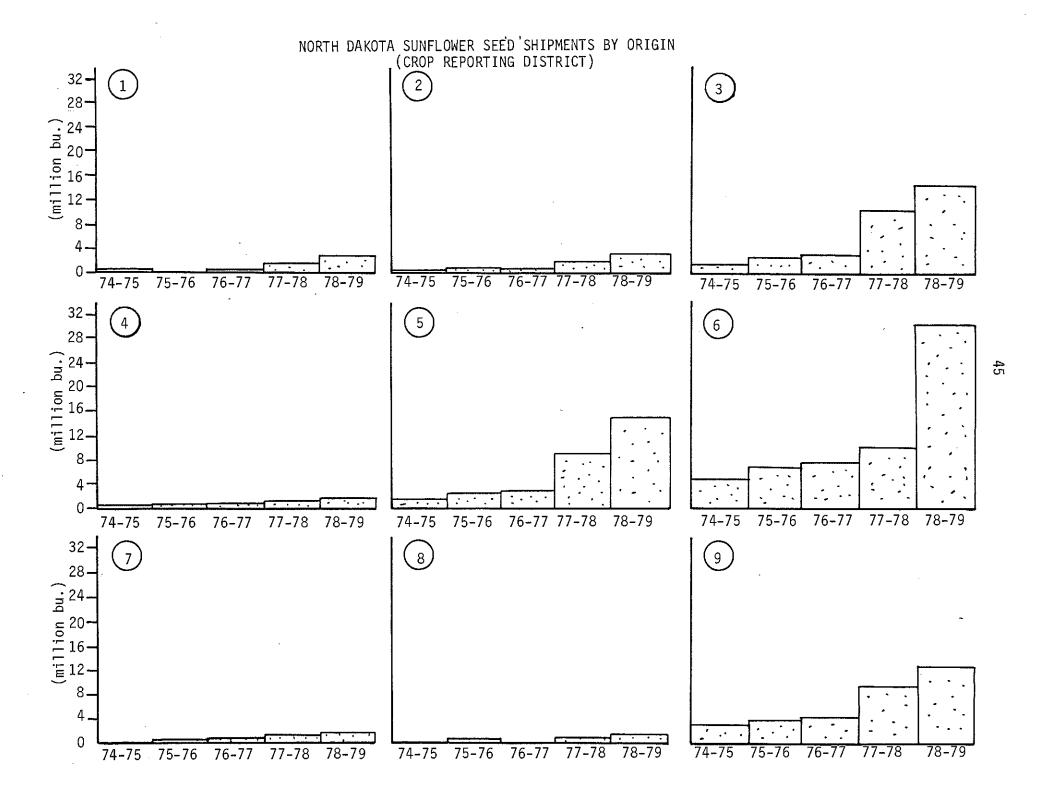
	1974-75		1975-76		1976-77		1977-78		1978	3-79
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
			(t	nousand b	u.)				****	·····
MINNEAPOLIS - ST. PAUL	190	211	510	647	700	163	770	2,223	489	4,301
	(47%)	(53%)	(44%)	(56%)	(81%)	(19%)	(26%)	(74%)	(10%)	(90%)
DULUTH - SUPERIOR	2,271	1,661	4,155	3,928	5,598	3,095	14,820	23,199	18,830	44,348
	(58%)	(42%)	(51%)	(49%)	(64%)	(36%)	(39%)	(61%)	(30%)	(70%)
OTHER MINNESOTA	232	843	279	868	256	1,114	367	2,853	465	5,143
	(22%)	(78%)	(24%)	(76%)	(19%)	(81%)	(11%)	(89%)	(8%)	(92%)
MISC. MARKETS	1,646	1,959	1,947	2,220	1,996	2,730	3,154	4,433	1,708	3,969
	(46%)	(54%)	(47%)	(53%)	(42%)	(58%)	(42%)	(58%)	(30%)	(70%)
T.OTAL	4,339	4,674	6,891	7,663	8,520	7,102	19,111	32,708	21,492	57,761
	(48%)	(52%)	(47%)	(53%)	(55%)	(45%)	(37%)	(63%)	(27%)	(73%)

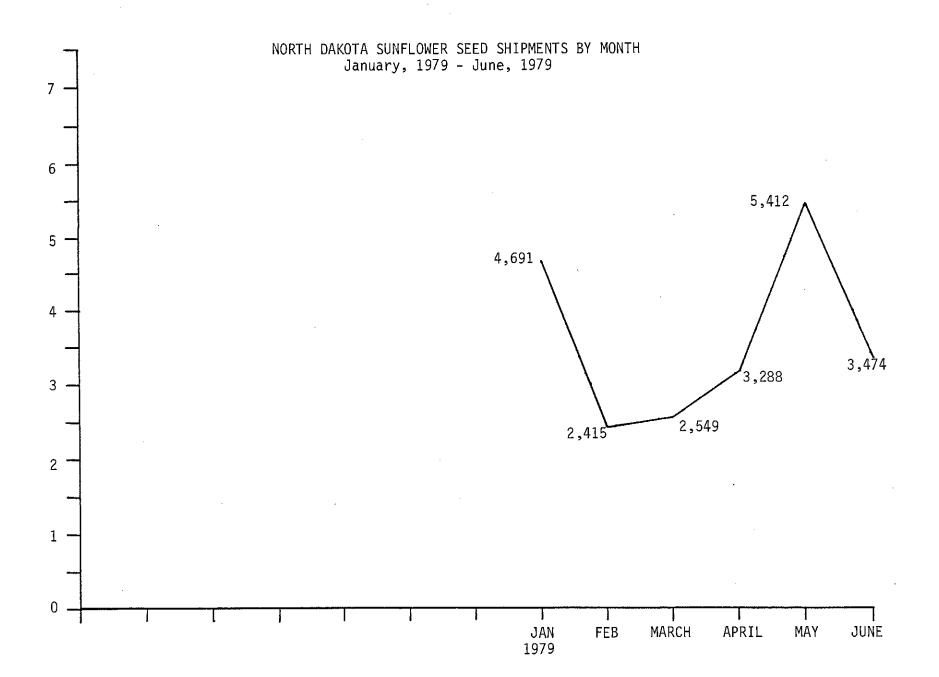
NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION



NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
DISTRICT					19/0-/9
		(thousand bu	.)		
1	15	0	7	771	2,233
2	2	71	26	1,267	2,839
3	791	1,853	2,184	10,469	14,803
4	4	. 9	20	179	336
5	470	1,772	1,788	9,087	15,560
6	5,464	7,441	7,861	10,710	30,050
7	0	2	25	225	485
8	0	7	0	129	225
9	2,267	3,399	3,711	8,442	12,722
TOTAL	9,013	14,554	15,622	41,279	79,253



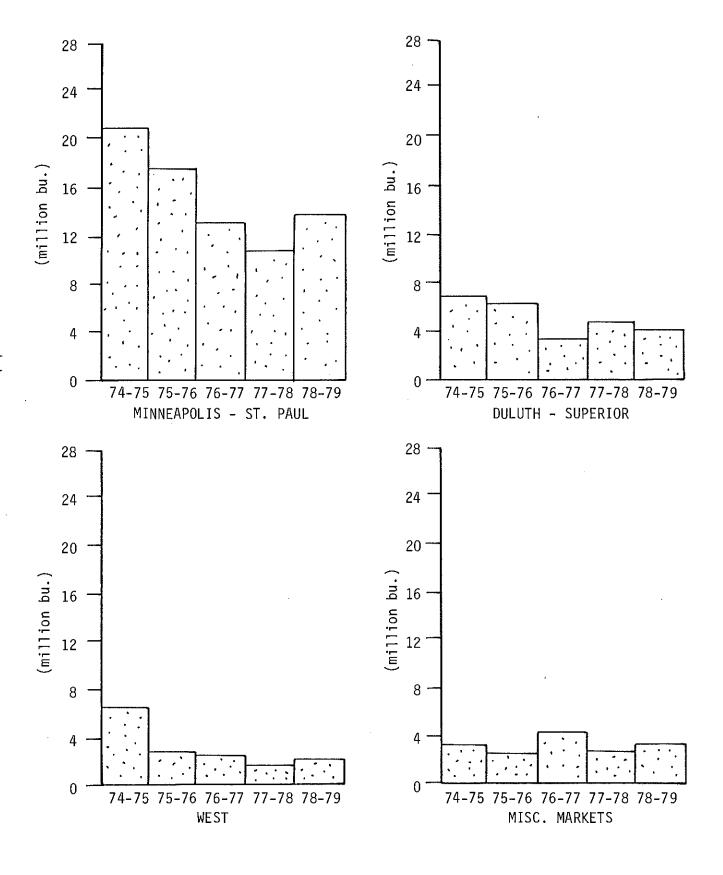


OATS MOVEMENTS

NORTH DAKOTA OATS SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79
Annual Additional Agency and the second seco	(thou	sand bu.)			
MINNEAPOLIS - ST. PAUL	10,439	8,779	6,769	5,860	6,969
	(54%)	(58%)	(56%)	(56%)	(58%)
DULUTH - SUPERIOR	3,752	3,531	1,932	2,385	2,078
	(19%)	(23%)	(16%)	(23%)	(17%)
WEST	3,446	1,458	1,427	85 1	1,200
	(18%)	(10%)	(12%)	(8%)	(10%)
MISCELLANEOUS MARKETS	1,825	1,334	2,031	1,396	1,839
	(9%)	(9%)	(17%)	(13%)	(15%)
TOTAL	19,462	15,102	12,159	10,492	12,086
	(100%)	(100%)	(100%)	(100%)	(100%)

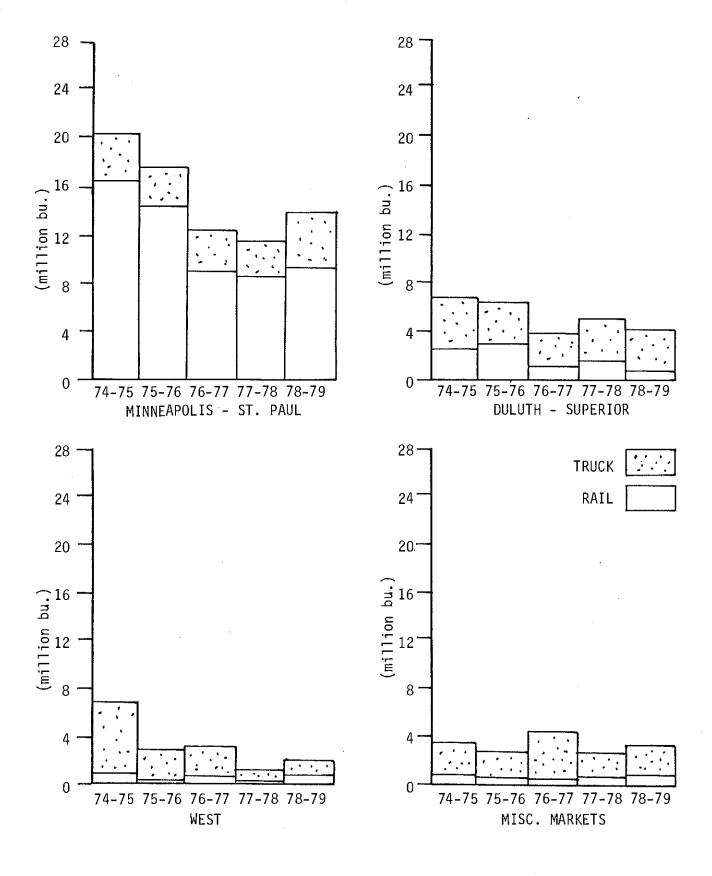
NORTH DAKOTA OATS SHIPMENTS BY DESTINATION



NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

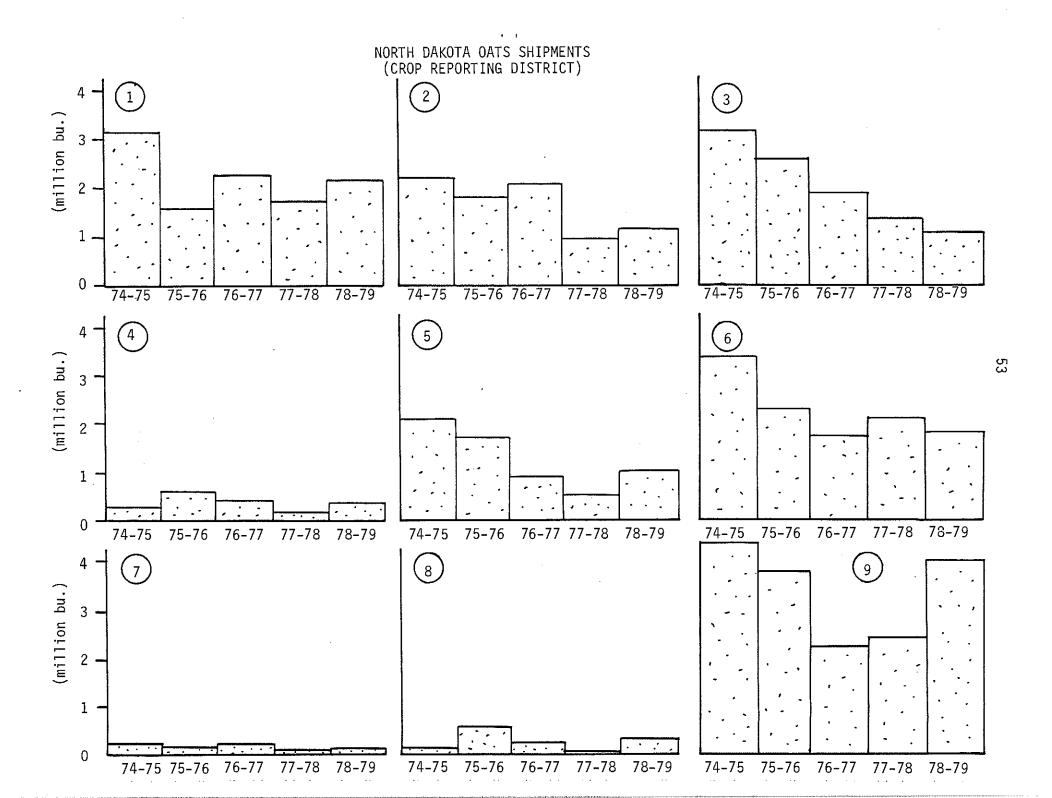
	1974	- 75	1975	-76	1976	- 77	1977	- 78	1978	- 79
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
				(thou	sand bu.)			*** · · · · · · · · · · · · · · · · · ·		
MINN ST. PAUL	8,148	2,291	7,300	1,479	4,602	2,166	4,244	1,616	4,767	2,202
	(78%)	(22%)	(83%)	(17%)	(68%)	(32%)	(72%)	(28%)	(68%)	(32%)
DULUTH-SUPERIOR	1,373	2,199	1,442	2,090	761	1,171	869	1,516	623	1,455
	(38%)	(62%)	(41%)	(59%)	(39%)	(61%)	(36%)	(64%)	(30%)	(70%)
WEST	319	3,127	92	1,366	121	1,306	12	839	185	1,016
	(9%)	(91%)	(6%)	(94%)	(8%)	(92%)	(1%)	(99%)	(16%)	(84%)
MISC. MARKETS	316	1,509	304	1,031	231	1,800	255	1,142	252	1,587
	(17%)	(83%)	(23%)	(77%)	(11%)	(89%)	(18%)	(82%)	(14%)	(86%)
TOTAL	10,156	9,126	9,138	5,966	5,715	6,443	5,380	5,113	5,827	6,260
	(52%)	(47%)	(61%)	(39%)	(47%)	(53%)	(51%)	(49%)	(48%)	(52%)

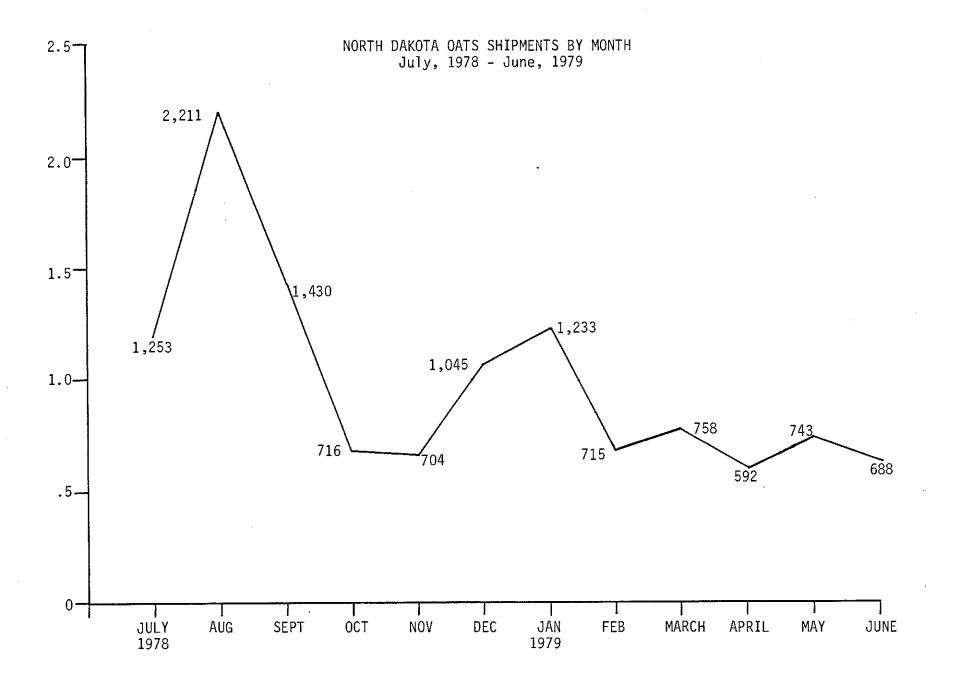
NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION



NORTH DAKOTA OATS SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976~77	1977-78	1978-79	
1	3,103	1,613	2,309	1,769	2,200	
2	2,221	1,806	2,081	974	1,184	
3	3,153	2,590	1,904	1,485	1,132	
4	283	596	436	137	425	
5	2,095	1,757	976	507	1,016	
6	3,426	2,297	1,733	2,077	1,760	
7	266	163	225	47	68	
8	65	573	226	7	301	
9	4,668	3,709	2,269	3,490	4,002	
TOTAL	19,280	15,104	12,159	10,493	12,088	



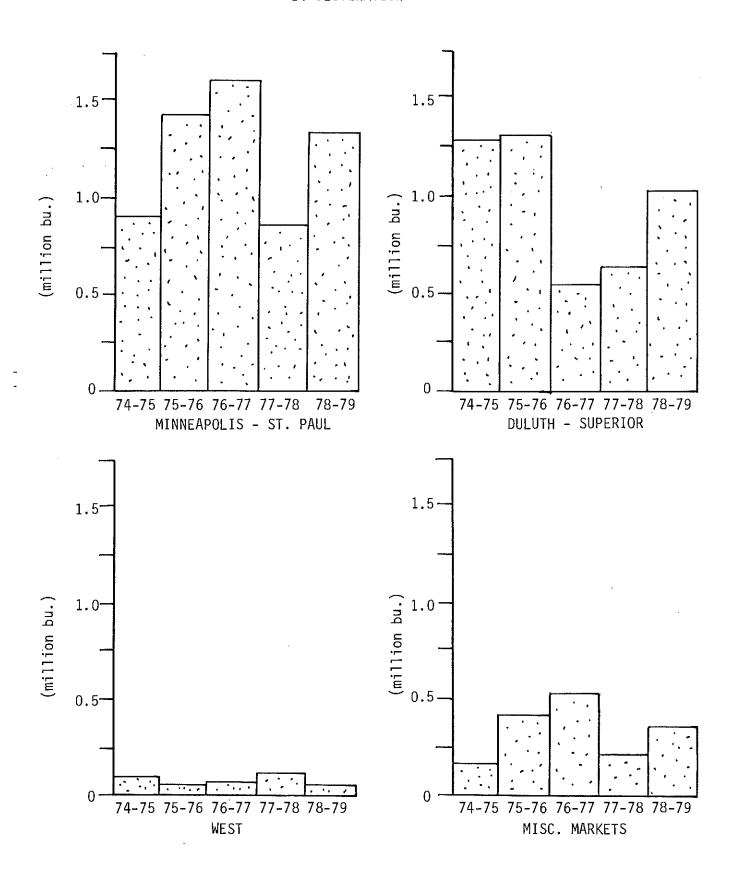


RYE MOVEMENTS

NORTH DAKOTA RYE SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79			
	(thousand bu.)							
MINNEAPOLIS - ST. PAUL	899	1,438	1,612	769	1,357			
	(36%)	(44%)	(58%)	(43%)	(48%)			
DULUTH - SUPERIOR	1,316	1,331	557	671	1,017			
	(52%)	(40%)	(20%)	(38%)	(36%)			
WEST	100	71	86	104	74			
	(4%)	(2%)	(3%)	(6%)	(3%)			
MISCELLANEOUS MARKETS	198	455	514	228	363			
	(8%)	(14%)	(19%)	(13%)	(13%)			
TOTAL	2,513	3,295	2,769	1,772	2,811			
	(100%)	(100%)	(100%)	(100%)	(100%)			

NORTH DAKOTA RYE SHIPMENTS BY DESTINATION

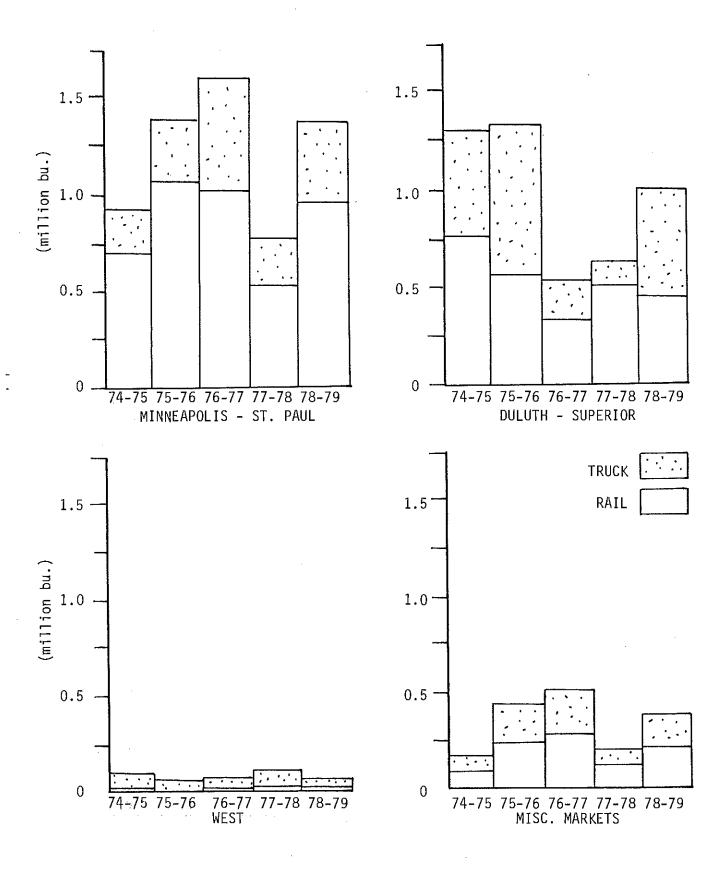


NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	1974	- 75	1975	5-76	1976-77		1977-78		1978	-79
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
				(thousa	nd bu.)					<u> </u>
MINN ST. PAUL	703	196	1,085	353	1,009	603	512	257	946	411
	(78%)	(22%)	(75%)	(25%)	(63%)	(36%)	(67%)	(33%)	(70%)	(30%)
DULUTH-SUPERIOR	779	538	588	743	311	246	525	146	476	541
	(59%)	(41%)	(44%)	(56%)	(56%)	(44%)	(78%)	(22%)	(47%)	(53%)
WEST	9	91	0	71	6	80	22	82	6	68
	(9%)	(91%)	(0%)	(100%)	(7%)	(93%)	(21%)	(79%)	(8%)	(92%)
MISC. MARKETS	100	98	245	210	267	247	142	86	121	242
	(50%)	(50%)	(54%)	(46%)	(52%)	(48%)	(62%)	(38%)	(33%)	(67%)
TOTAL	1,591	923	1,918	1,377	1,593	1,176	1,201	571	1,549	1,262
	(63%)	(37%)	(58%)	(42%)	(58%)	(42%)	(68%)	(32%)	(55%)	(45%)

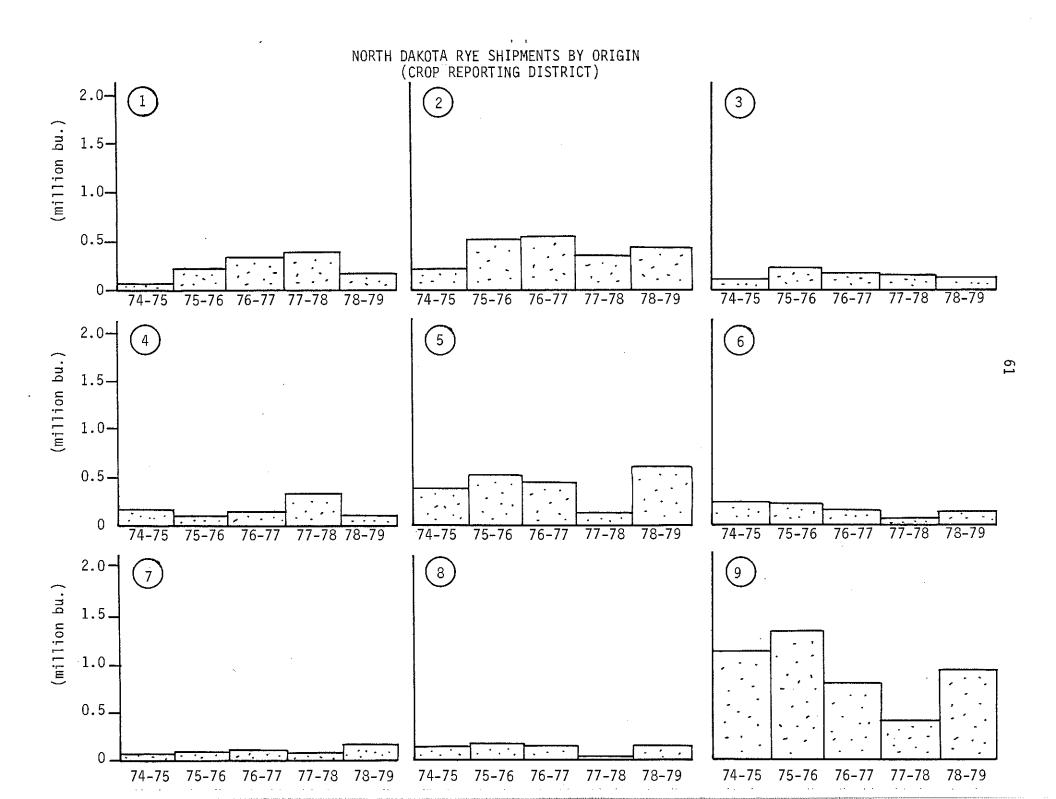
52

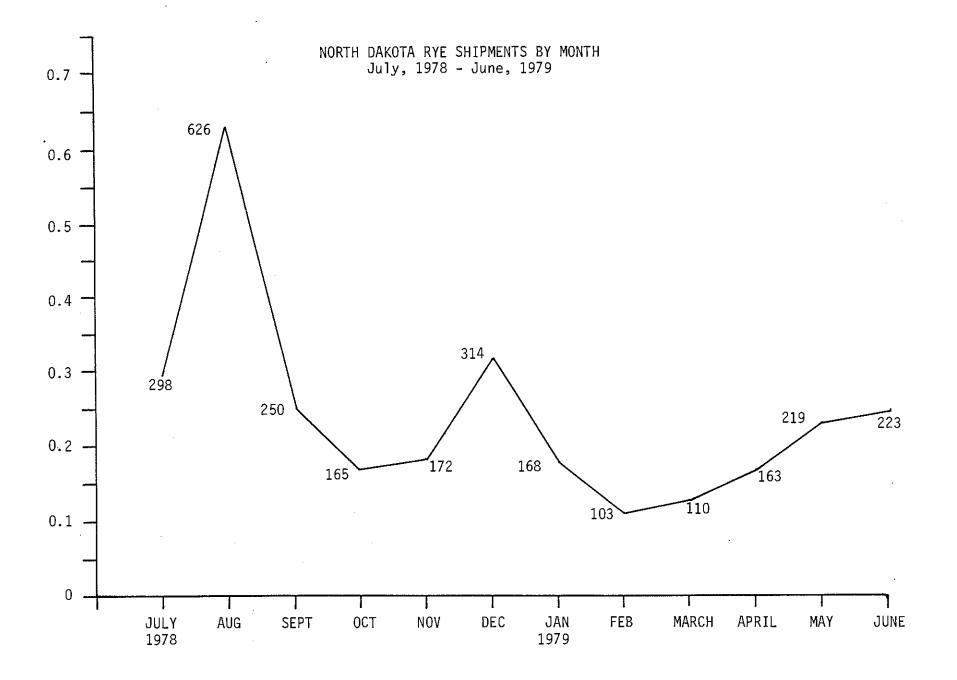
NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION



NORTH DAKOTA RYE SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
		(thousand bu	ı.)		
1	59	218	285	334	177
2	221	541	557	315	442
3	87	222	189	181	160
4	147	71	124	304	75
5	347	518	444	122	570
6	209	206	161	59	136
7	71	77	93	75	165
8	103	134	118	27	104
9	1,170	1,305	799	355	982
TOTAĹ	2,414	3,292	2,770	1,772	2,811





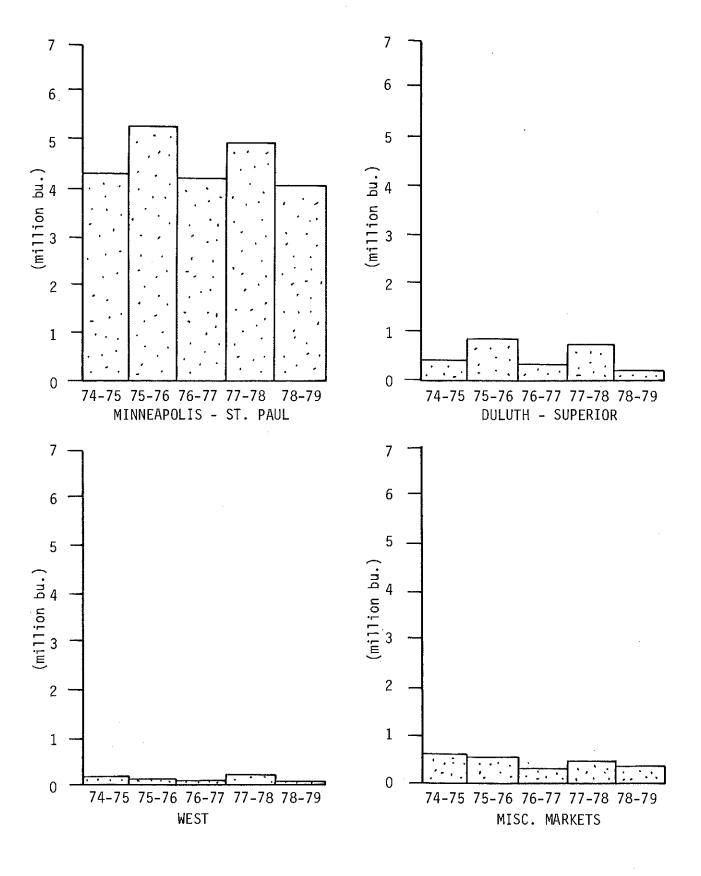
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FLAXSEED MOVEMENTS

NORTH DAKOTA FLAXSEED SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79
	(thou	sand bu.)	*****		
MINNEAPOLIS - ST. PAUL	4,354	5,170	4,260	4,941	4,054
	(82%)	(78%)	(87%)	(80%)	(89%)
DULUTH - SUPERIOR	346	855	284	748	153
	(7%)	(13%)	(6%)	(12%)	(3%)
WEST	69	60	59	72	21
	(1%)	(1%)	(1%)	(1%)	(< 1%)
MISCELLANEOUS MARKETS	531	505	279	413	313
	(10%)	(8%)	(6%)	(7%)	(7%)
TOTAL	5,300	6,590	4,882	6,174	4,541
	(100%)	(100%)	(100%)	(100%)	(100%)

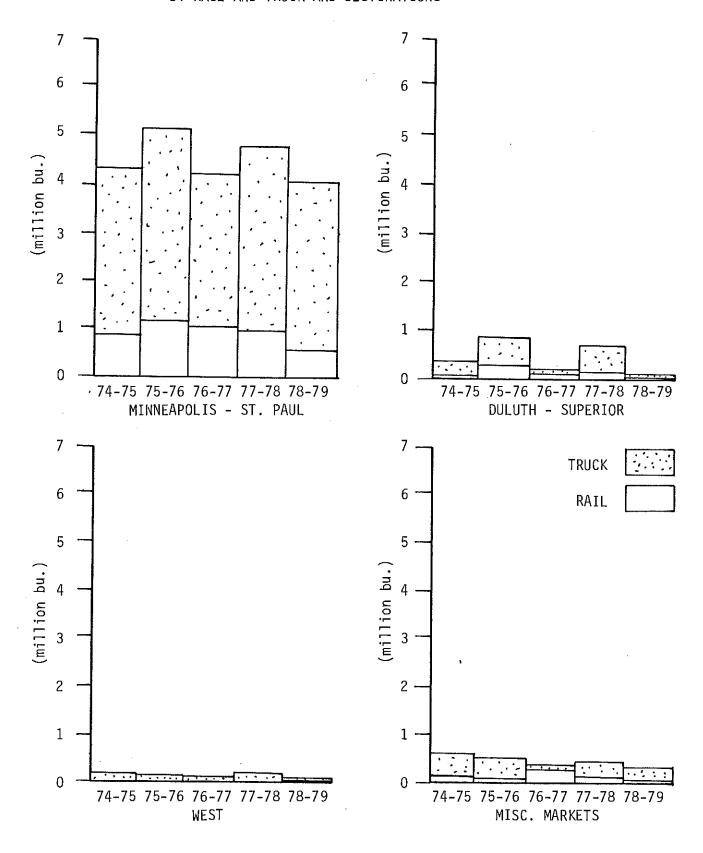
NORTH DAKOTA FLAXSEED SHIPMENTS BY DESTINATION



NORTH DAKOTA FLAXSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

	1974-75		1975-76		1976-77		1977-78		1978-79	
DESTINATION	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
·				(thous	and bu.)					
MINN ST. PAUL	915	3,439	1,213	3,957	1,046	3,214	987	3,954	541	3,513
	(21%)	(79%)	(23%)	(77%)	(25%)	(75%)	(20%)	(80%)	(13%)	(87%)
DULUTH - SUPERIOR	55	291	317	538	102	183	226	522	18	135
	(16%)	(84%)	(37%)	(63%)	(36%)	(64%)	(30%)	(70%)	(12%)	(88%)
WEST	0	69	0	60	0	59	0	72	2	19
	(0%)	(100%)	(0%)	(100%)	(0%)	(100%)	(0%)	(100%)	(10%)	(90%)
MISC. MARKETS	78	453	31	474	206	74	74	339	32	281
	(15%)	(85%)	(6%)	(94%)	(74%)	(26%)	(18%)	(82%)	(10%)	(90%)
TOTAL	1,048	4,252	1,561	5,029	1,354	3,530	1,287	4,887	593	3,948
	(20%)	(80%)	(24%)	(76%)	(28%)	(72%)	(21%)	(79%)	(15%)	(85%)

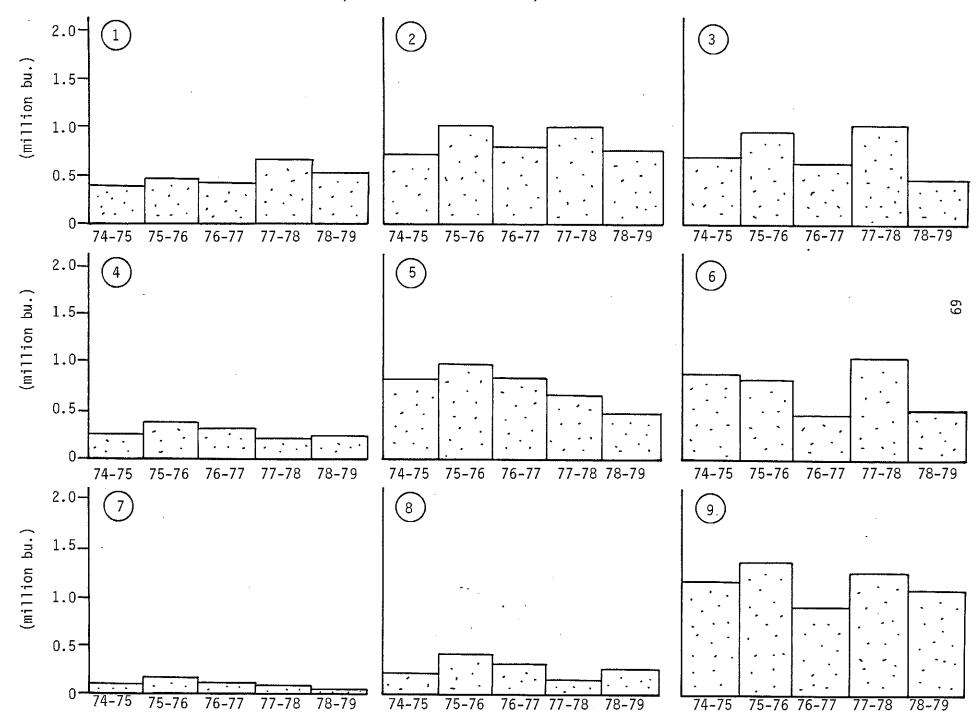
NORTH DAKOTA FLAXSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATIONS

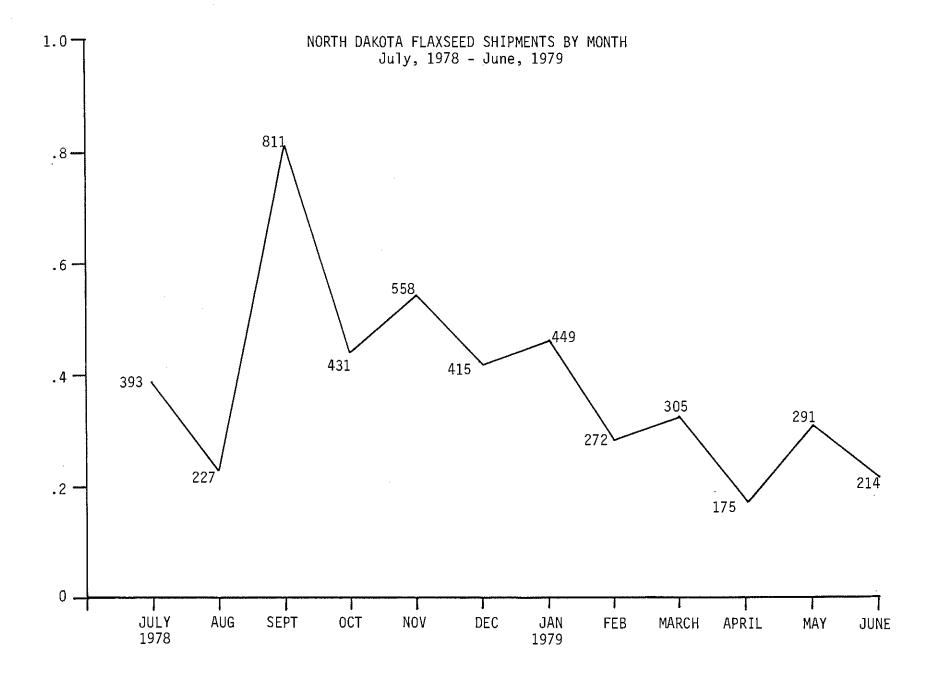


NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79								
(thousand bu.)													
1	426	487	450	678	515								
2	707	1,047	794	1,022	765								
3	703	929	656	1,054	547								
. 4	258	371	307	203	254								
5	806	986	829	679	474								
6	889	819	491	1,024	533								
7	78	135	98	74	57								
8	236	424	323	145	295								
9	1,196	1,393	935	1,295	1,102								
TOTAL	5,299	6,591	4,883	6,174	4,542								

NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)





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