

**NORTH DAKOTA GRAIN TRANSPORTATION
STATISTICS 1976-77**

By

John G. Cosgriff

UGPTI Publication No. 31

April 1978

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STATISTICS 1976-77**

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in cooperation with

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

APRIL 1978

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 56, 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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TABLE OF CONTENTS

	Page
PREFACE	ii
NORTH DAKOTA GRAIN TRANSPORTATION STATISTICS, 1976-77	1
Objective of Report	1
Scope of Report	1
Source of Data	1
Organization of the Remainder of the Report	3
NORTH DAKOTA GRAIN SHIPMENTS, 1969-70 to 1976-77	4
NORTH DAKOTA GRAIN SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)	7
NORTH DAKOTA GRAIN SHIPMENTS BY MONTH, (JULY, 1976 - JUNE, 1977)	10
NORTH DAKOTA GRAIN SHIPMENTS BY DESTINATION	11
NORTH DAKOTA GRAIN SHIPMENTS BY RAIL AND TRUCK AND DESTINATION	14
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY DESTINATION	17
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY RAIL AND TRUCK AND DESTINATION	20
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)	23
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY MONTH (JULY, 1976 - JUNE, 1977)	26
NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION	27
NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION	30
NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)	33
NORTH DAKOTA DURUM SHIPMENTS BY MONTH (JULY, 1976 - JUNE, 1977)	36
NORTH DAKOTA BARLEY SHIPMENTS BY DESTINATION	37
NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION	40
NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT)	43
NORTH DAKOTA BARLEY SHIPMENTS BY MONTH (JULY, 1976 - JUNE, 1977)	46

	Page
NORTH DAKOTA OATS SHIPMENTS BY DESTINATION	47
NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION . . .	50
NORTH DAKOTA OATS SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT) . .	53
NORTH DAKOTA OATS SHIPMENTS BY MONTH (JULY, 1976 - JUNE, 1977) . . .	56
NORTH DAKOTA RYE SHIPMENTS BY DESTINATION	57
NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION	60
NORTH DAKOTA RYE SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT) . . .	63
NORTH DAKOTA RYE SHIPMENTS BY MONTH (JULY, 1976 - JUNE, 1977) . . .	66
NORTH DAKOTA FLAX SHIPMENTS BY DESTINATION	67
NORTH DAKOTA FLAX SHIPMENTS BY RAIL AND TRUCK AND DESTINATION . . .	70
NORTH DAKOTA FLAX SHIPMENTS BY ORIGIN (CROP REPORTING DISTRICT) . .	73
NORTH DAKOTA FLAX SHIPMENTS BY MONTH (JULY, 1976 - JUNE, 1977) . . .	76

NORTH DAKOTA GRAIN TRANSPORTATION STATISTICS
1976-77

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 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.

Mode of shipment: 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, 1976 to June, 1977.

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, 1976 through June, 1977, 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.

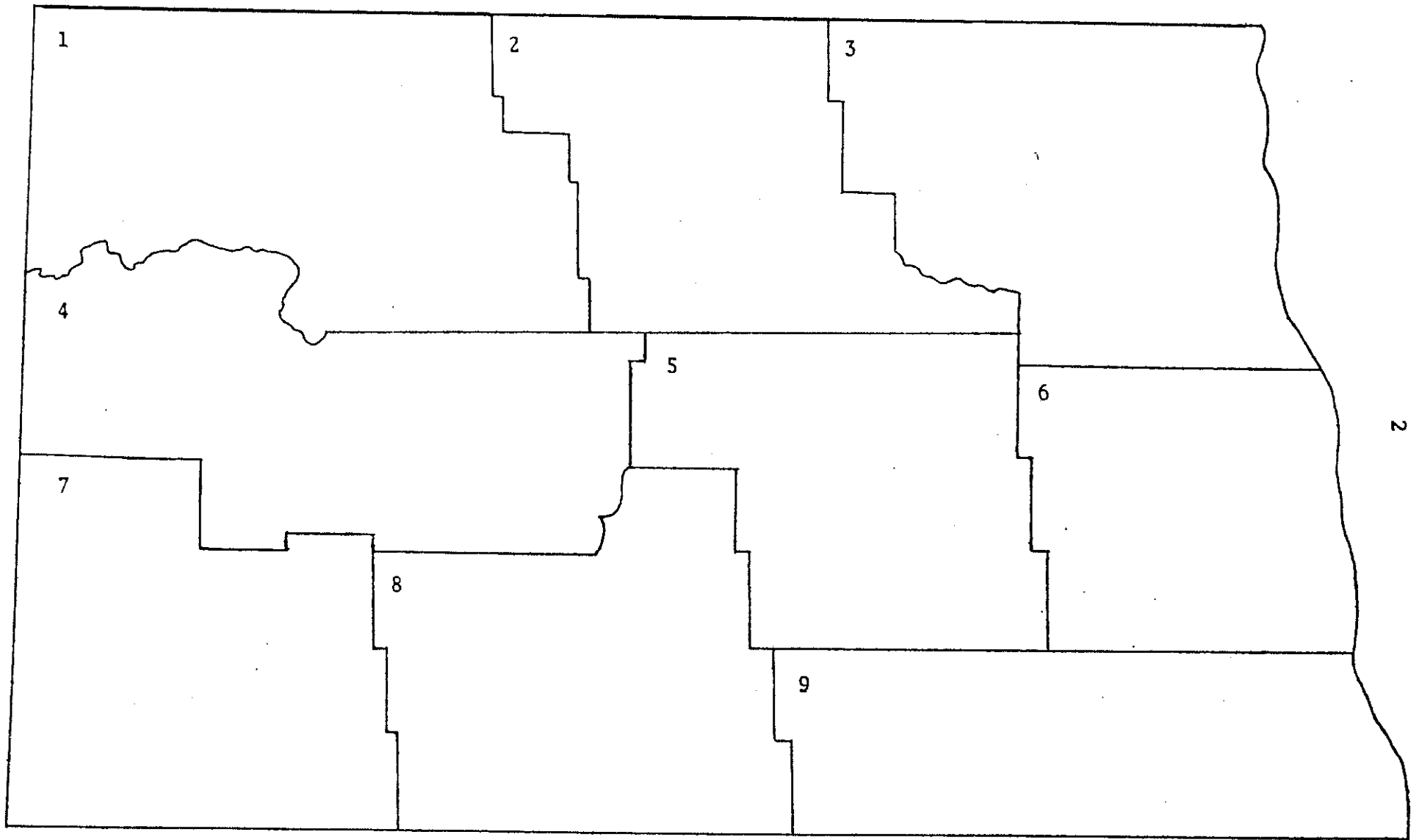


Figure 1. North Dakota Crop Reporting Districts

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."

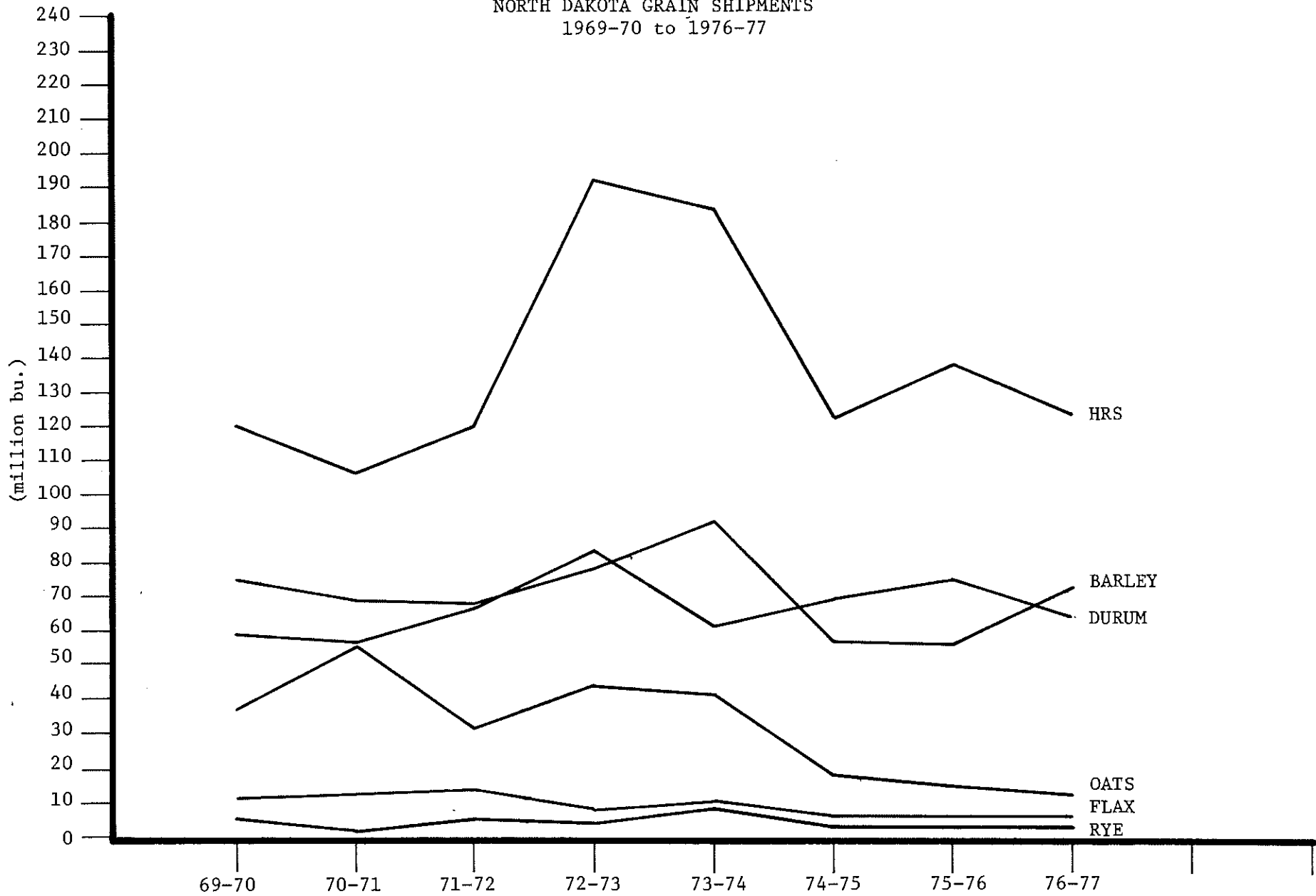
**NORTH DAKOTA GRAIN SHIPMENTS
1969-70 TO 1976-77**

NORTH DAKOTA GRAIN SHIPMENTS*
1969-70 to 1976-77

	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
	(thousand bu.)							
HARD RED SPRING	120,330	105,800	119,944	191,696	183,567	122,934	139,361	123,976
DURUM	58,540	57,317	66,184	83,351	60,758	68,781	74,817	65,024
BARLEY	74,528	68,996	68,436	78,384	91,739	56,671	56,355	73,314
OATS	37,008	55,049	32,009	44,222	41,338	19,322	15,104	12,158
RYE	1,672	4,675	3,701	5,009	7,721	2,513	3,293	2,769
FLAX	13,133	13,540	8,796	11,411	6,871	5,300	6,590	4,883
TOTAL	305,211	305,377	299,071	414,073	391,994	275,527	295,520	282,124

*Includes CCC shipments.

NORTH DAKOTA GRAIN SHIPMENTS
1969-70 to 1976-77



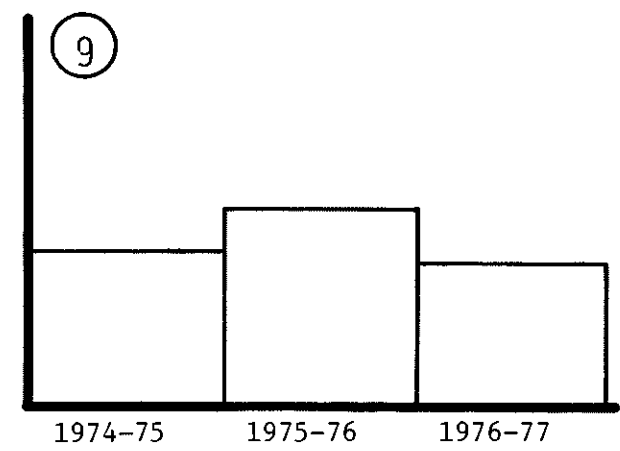
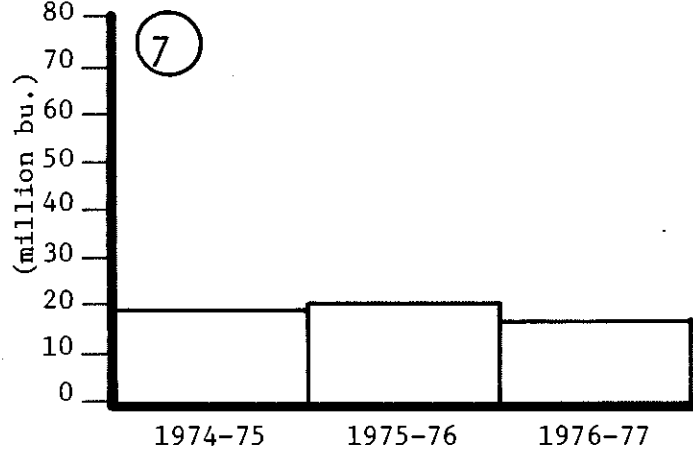
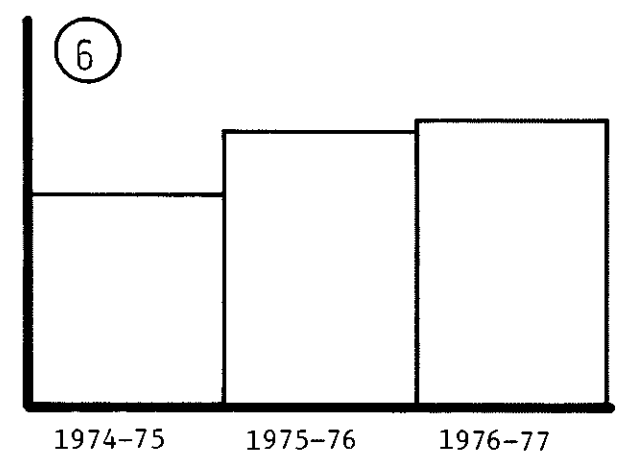
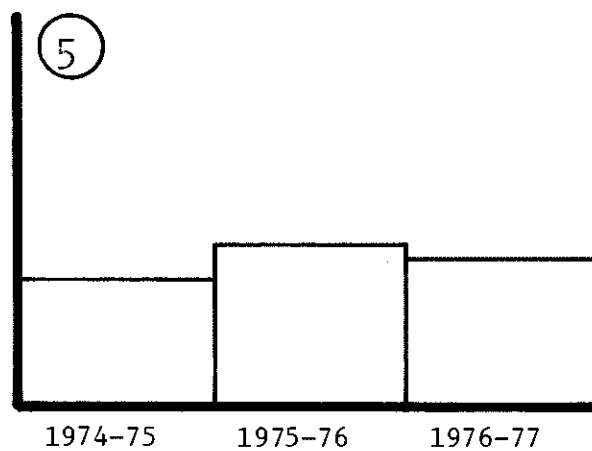
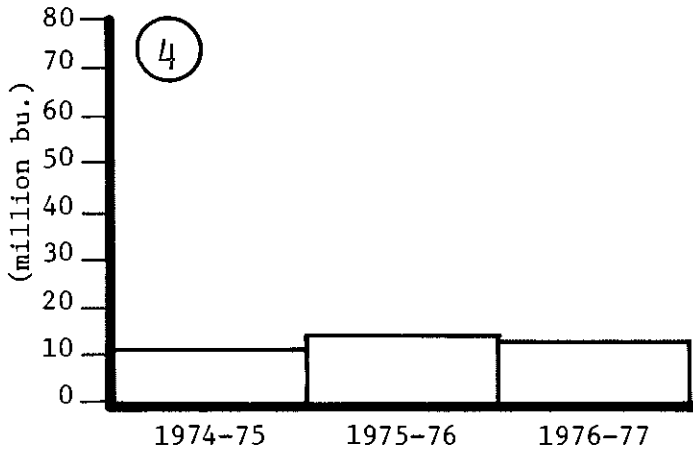
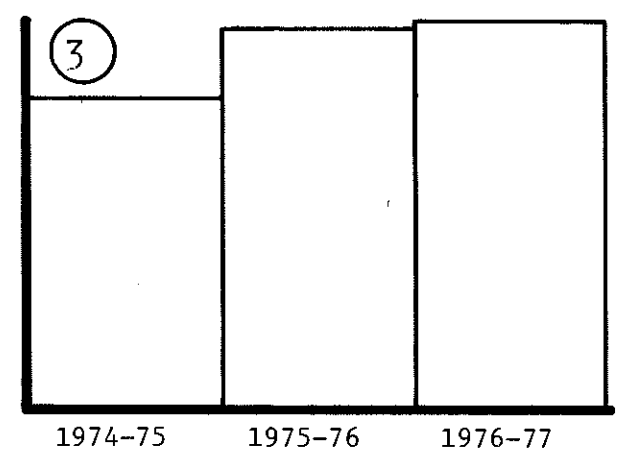
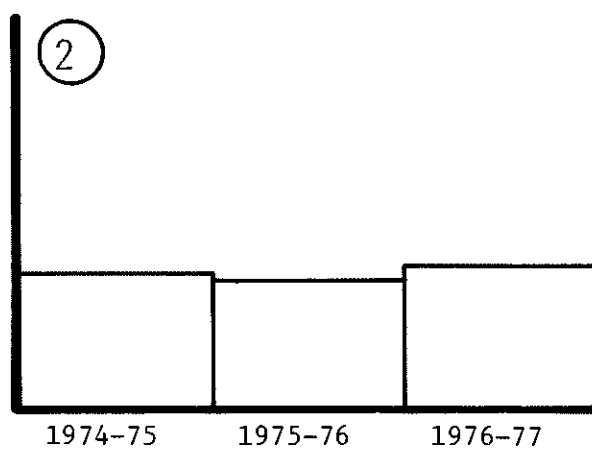
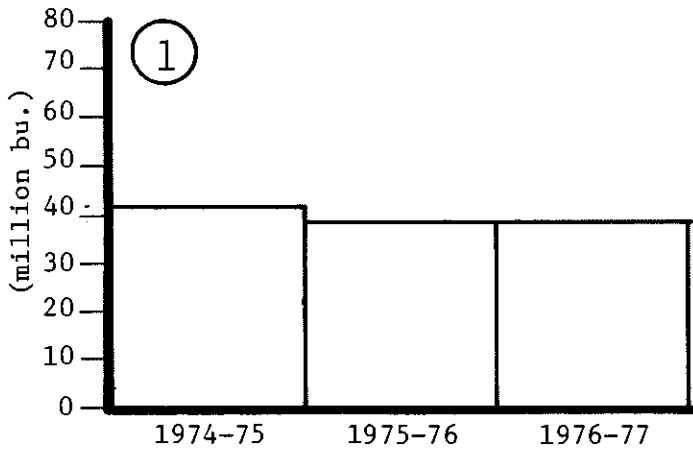
**NORTH DAKOTA GRAIN SHIPMENTS
BY ORIGIN (CROP REPORTING DISTRICT)**

NORTH DAKOTA GRAIN SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)*

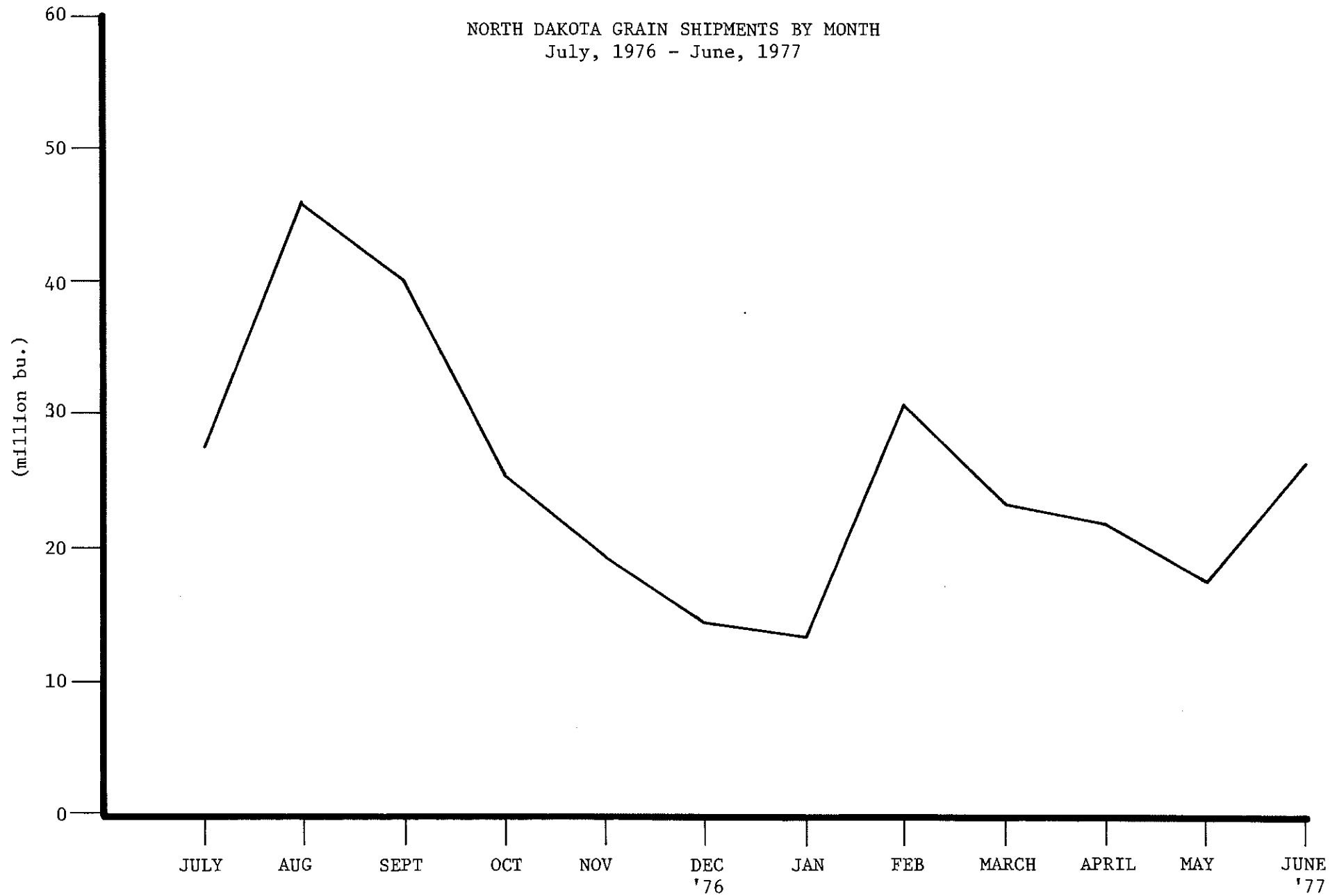
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	41,743	39,254	38,628
2	28,136	27,362	29,421
3	64,109	78,193	80,085
4	10,822	13,941	13,315
5	25,508	33,031	29,763
6	43,074	55,875	58,924
7	19,499	20,044	17,044
8	7,692	12,834	9,454
9	31,690	39,748	29,280

*Includes hard red spring, durum, barley, oats, rye, flax, and miscellaneous commodities.

NORTH DAKOTA GRAIN SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA GRAIN SHIPMENTS BY MONTH
July, 1976 - June, 1977

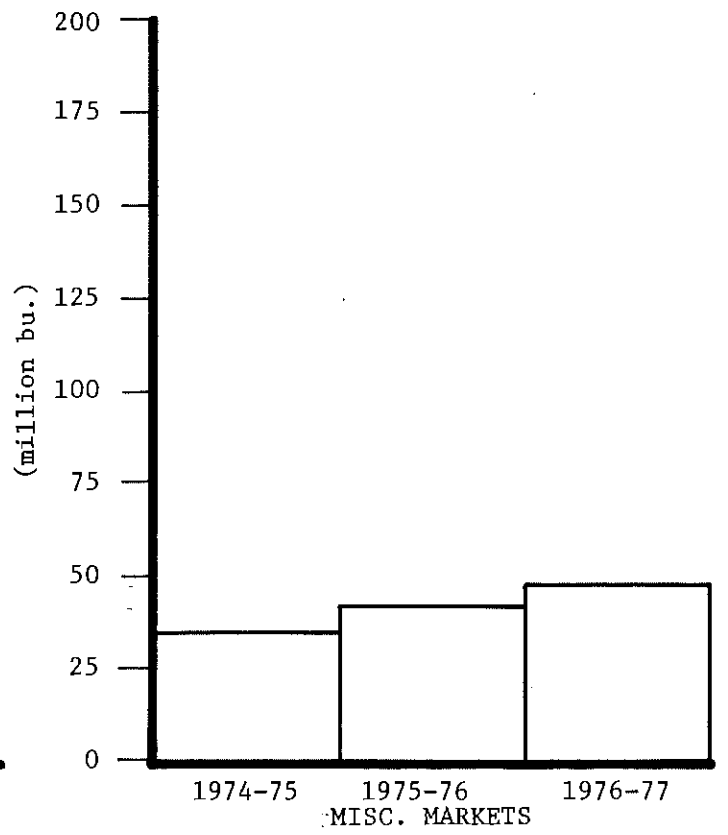
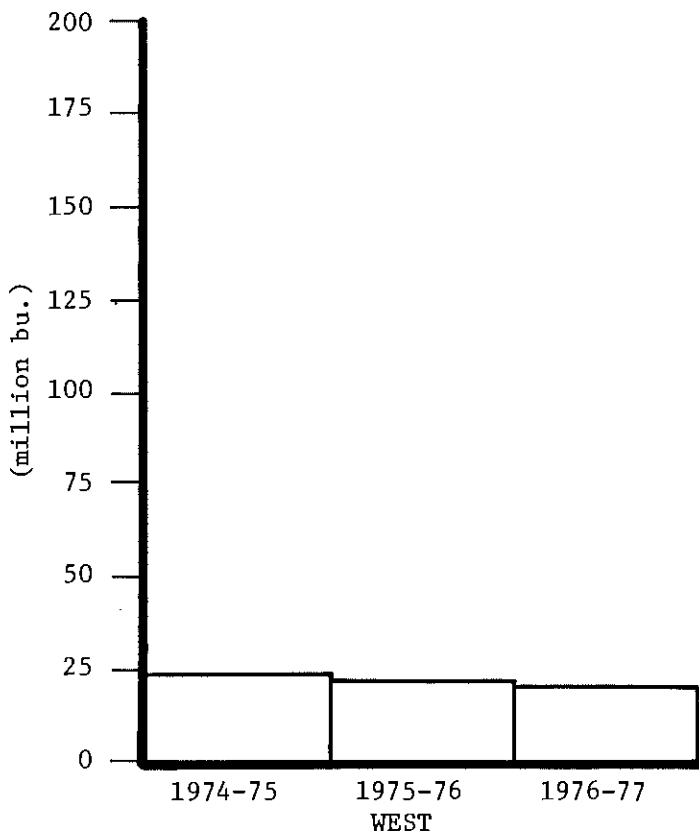
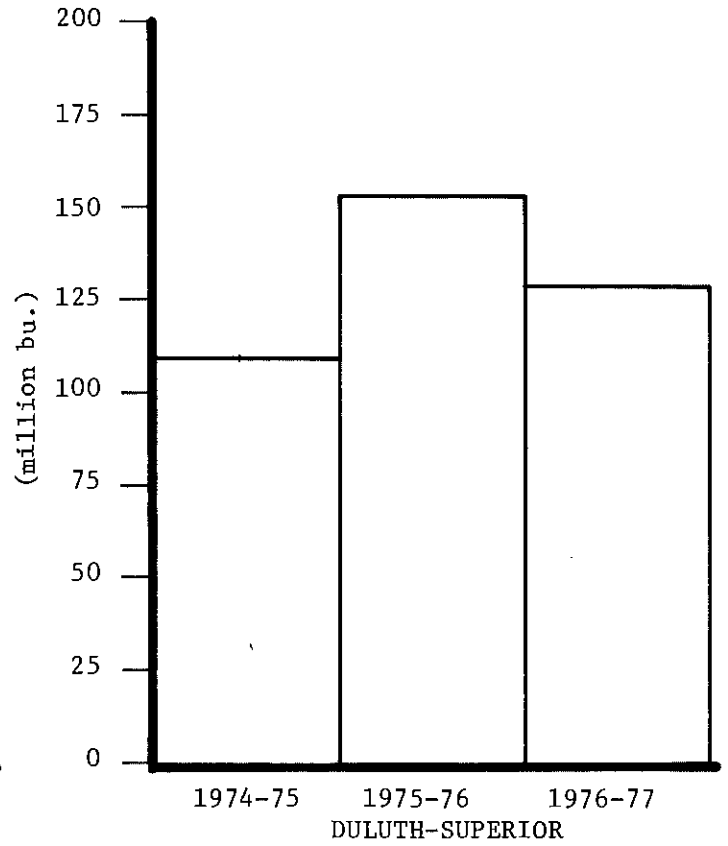
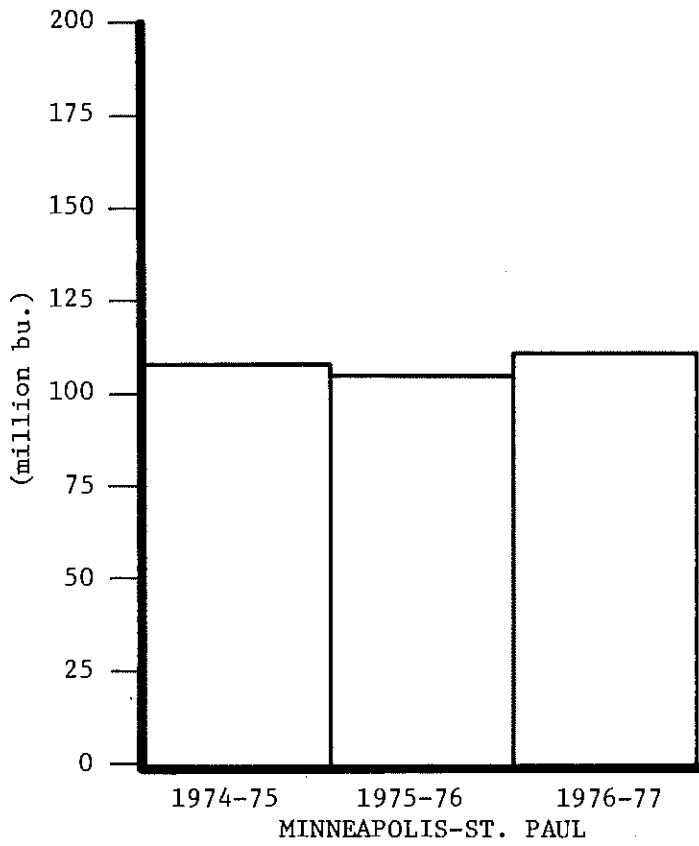


**NORTH DAKOTA GRAIN SHIPMENTS
BY DESTINATION**

NORTH DAKOTA GRAIN SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77
	(thousand bu.)		
MINNEAPOLIS-ST. PAUL	108,093	104,900	109,620
DULUTH-SUPERIOR	109,585	152,514	128,044
WEST	23,827	22,031	20,823
MISCELLANEOUS MARKETS	<u>33,982</u>	<u>40,840</u>	<u>47,425</u>
TOTAL	275,487	320,285	305,912

NORTH DAKOTA GRAIN SHIPMENTS BY DESTINATION
1974-75 to 1976-77



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

NORTH DAKOTA GRAIN SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION

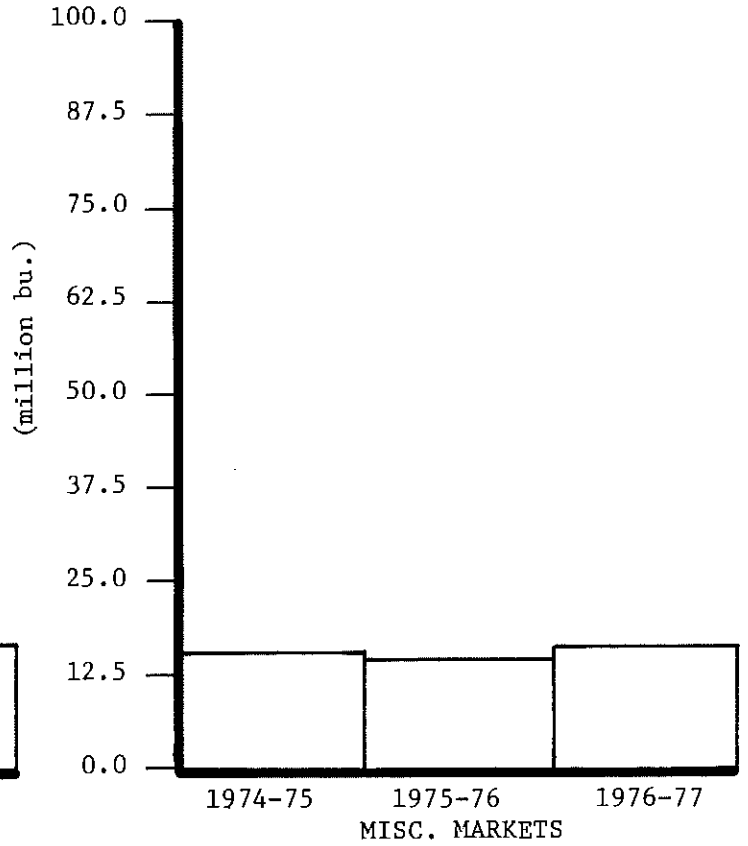
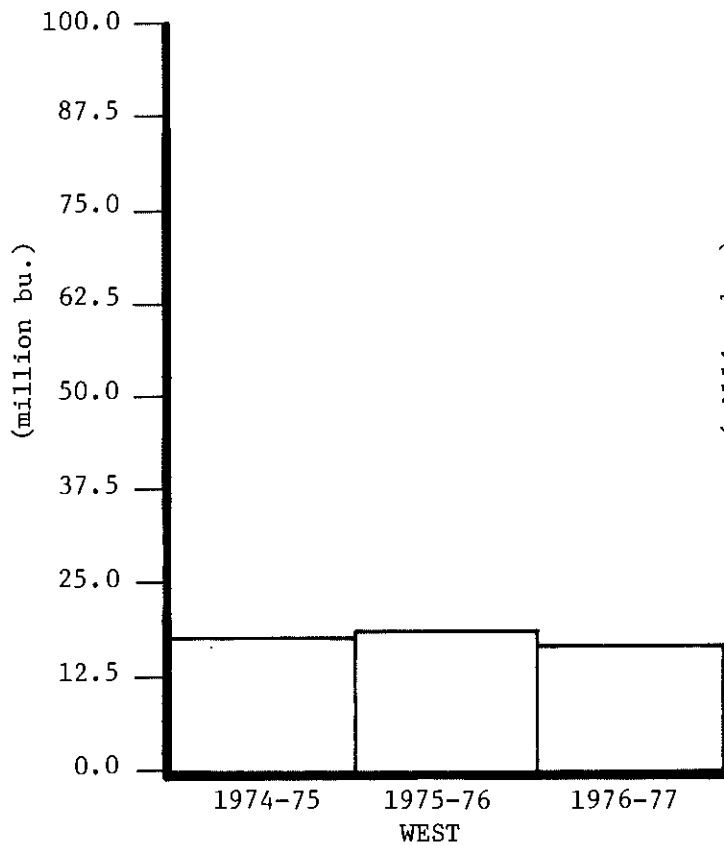
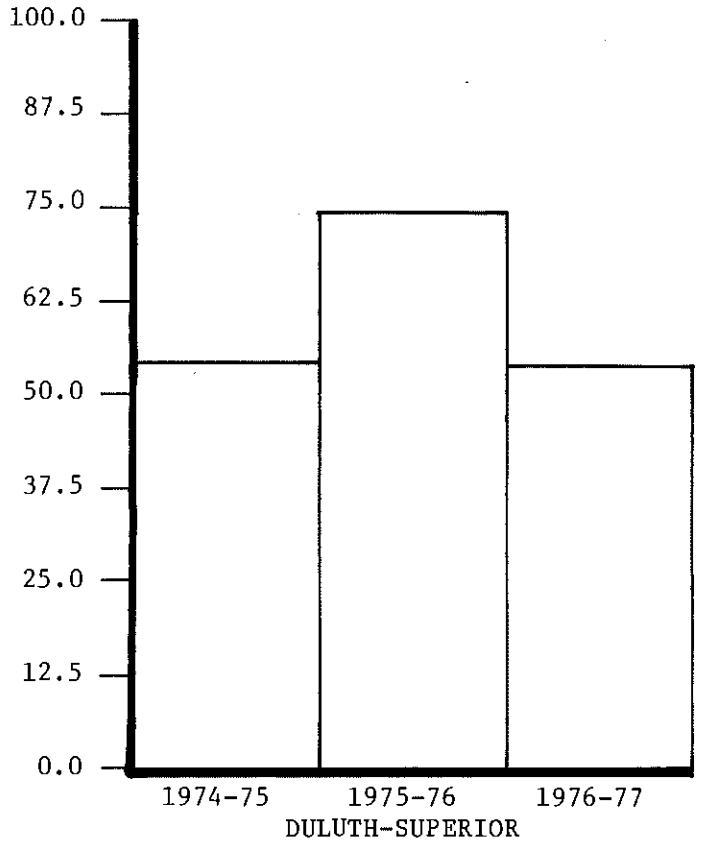
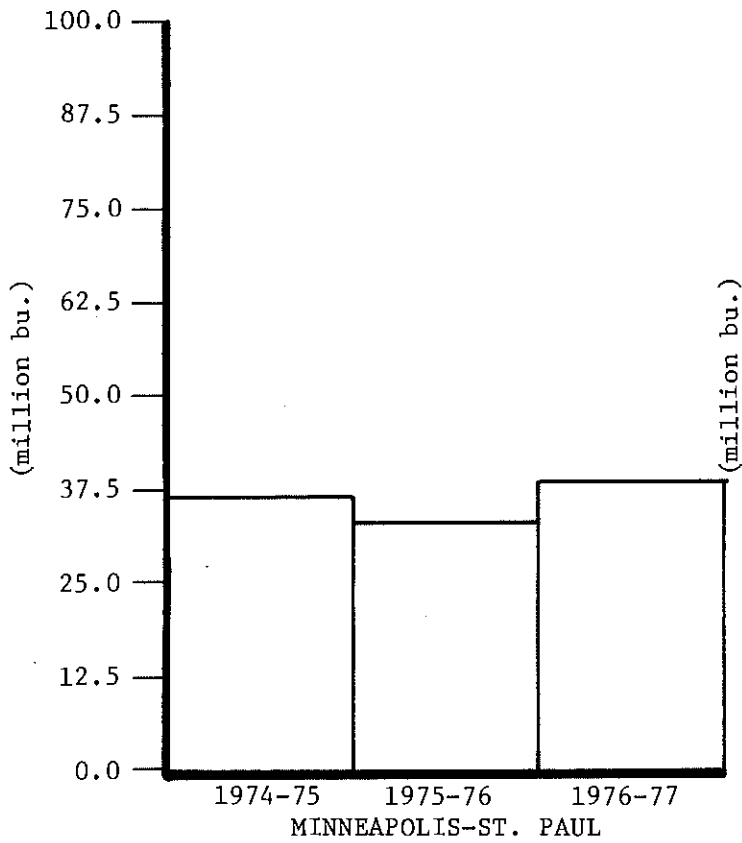
DESTINATION	1974-75		1975-76		1976-77	
	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
MINN.-ST. PAUL	90,556 (84%)	17,537 (16%)	83,290 (79%)	21,610 (21%)	82,764 (76%)	26,856 (24%)
DULUTH-SUPERIOR	88,428 (81%)	21,157 (19%)	110,012 (72%)	42,502 (28%)	80,207 (63%)	47,837 (37%)
WEST	17,148 (72%)	6,679 (28%)	15,376 (70%)	6,654 (30%)	11,703 (56%)	9,120 (44%)
MISC. MARKETS	25,790 (76%)	8,192 (24%)	27,813 (68%)	13,027 (32%)	30,455 (64%)	16,970 (36%)
TOTAL	221,922 (81%)	53,565 (19%)	236,491 (74%)	83,793 (26%)	205,129 (67%)	100,783 (33%)

**NORTH DAKOTA RED SPRING WHEAT
SHIPMENTS BY DESTINATION**

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY DESTINATION

Destination	1974-75	1975-76	1976-77
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	35,485	32,855	38,230
DULUTH-SUPERIOR	54,419	74,467	53,419
WEST	17,713	17,788	16,675
MISCELLANEOUS MARKETS	15,317	14,253	15,651

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

DESTINATION	1974-75		1975-76		1976-77	
	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
	(thousand bu.)					
MINN.-ST. PAUL	25,518 (72%)	9,967 (28%)	21,832 (66%)	11,023 (34%)	22,206 (58%)	16,024 (42%)
DULUTH-SUPERIOR	44,216 (81%)	10,203 (19%)	54,310 (73%)	20,157 (27%)	37,140 (70%)	16,280 (30%)
WEST	15,566 (88%)	2,147 (12%)	14,261 (80%)	3,527 (20%)	10,629 (64%)	6,047 (36%)
MISC. MARKETS	12,184 (80%)	3,132 (20%)	11,421 (80%)	2,832 (20%)	12,249 (78%)	3,402 (22%)

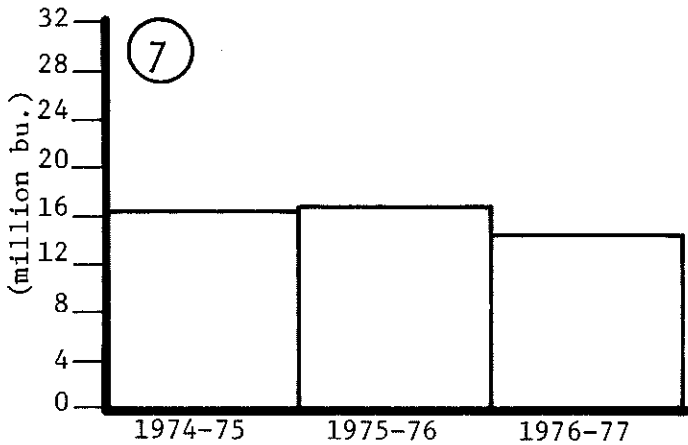
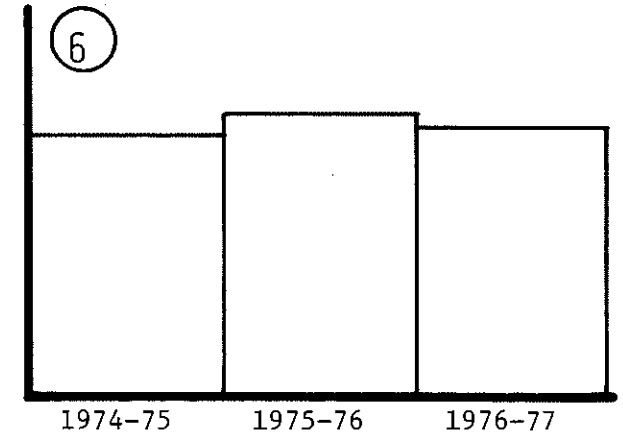
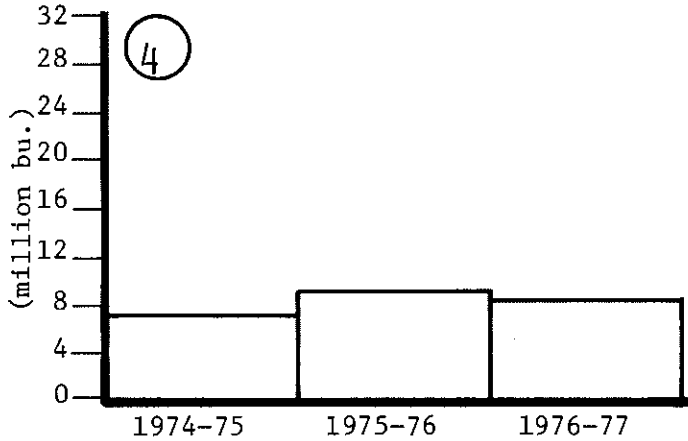
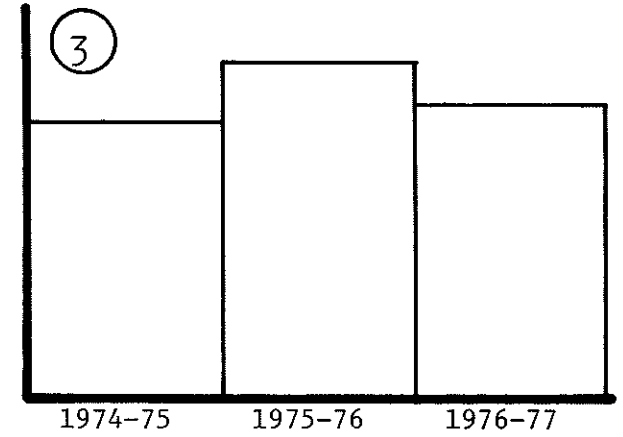
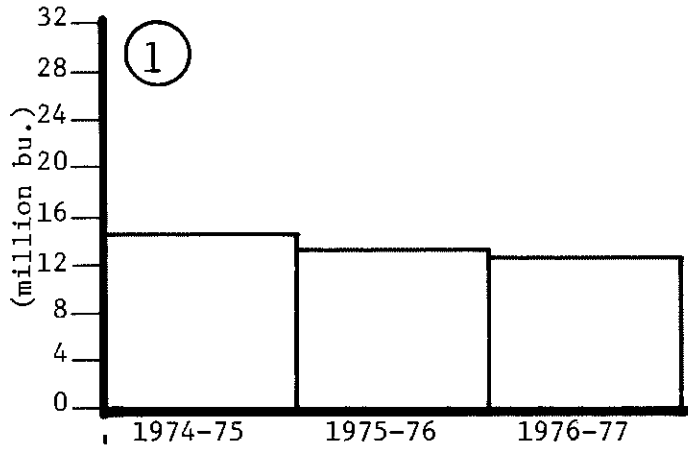


**NORTH DAKOTA HARD RED SPRING
WHEAT SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)**

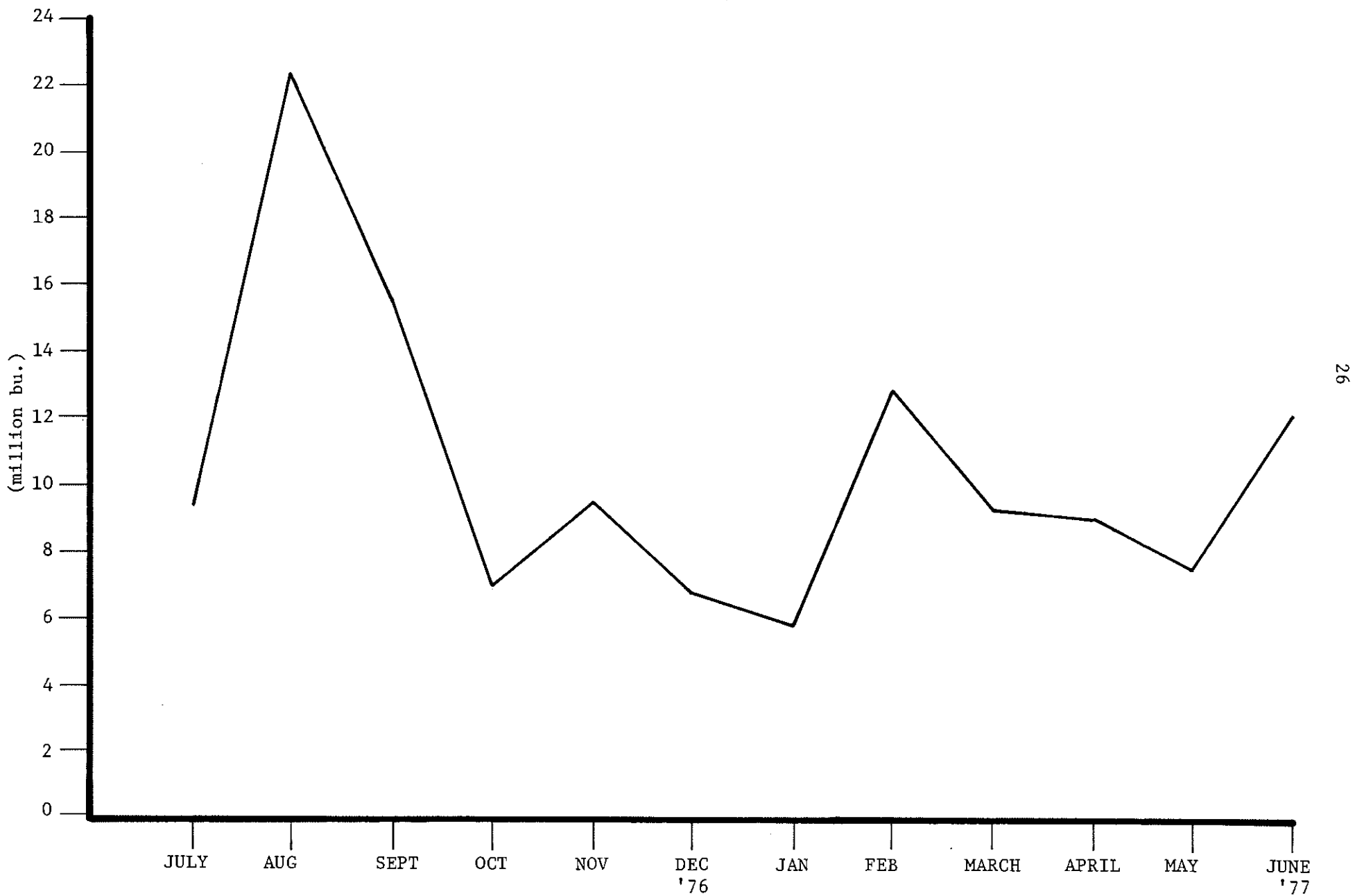
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	14,472	13,179	12,657
2	6,279	7,872	6,807
3	22,893	27,698	24,053
4	6,955	8,821	8,209
5	11,473	15,695	15,253
6	21,393	22,962	22,000
7	16,138	16,422	14,182
8	6,609	9,993	7,782
9	16,720	16,720	13,033

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



NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY MONTH
July, 1976 - June, 1977

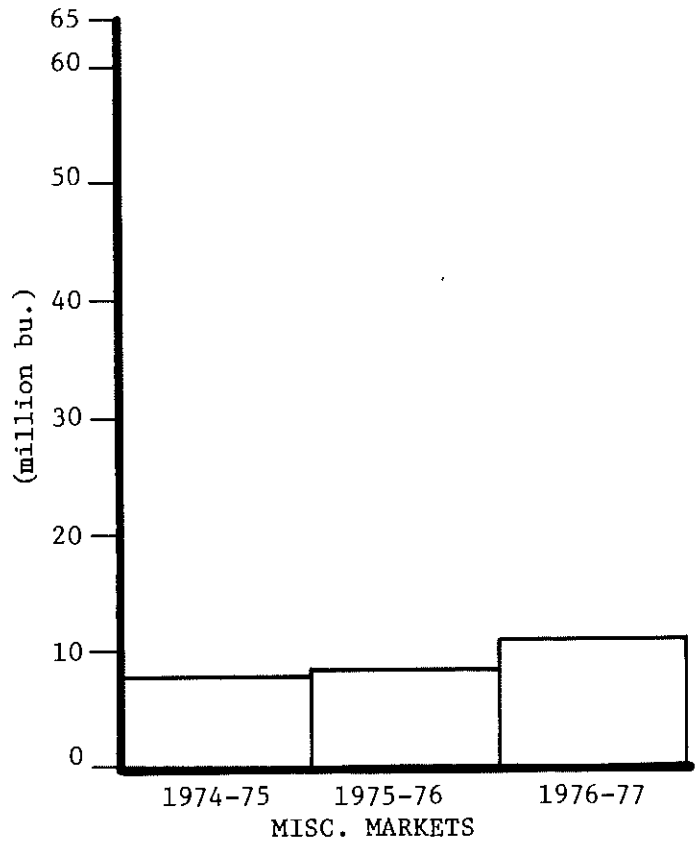
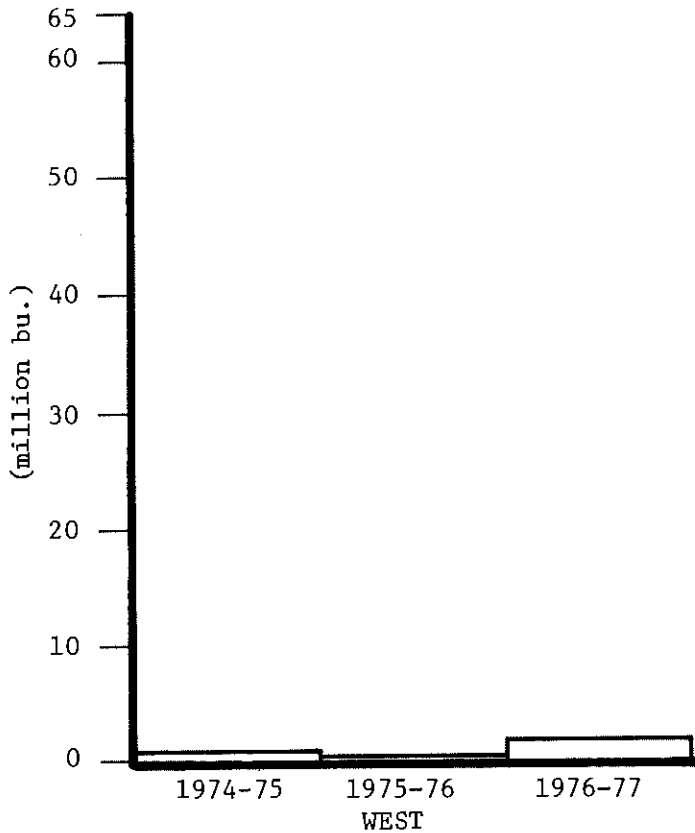
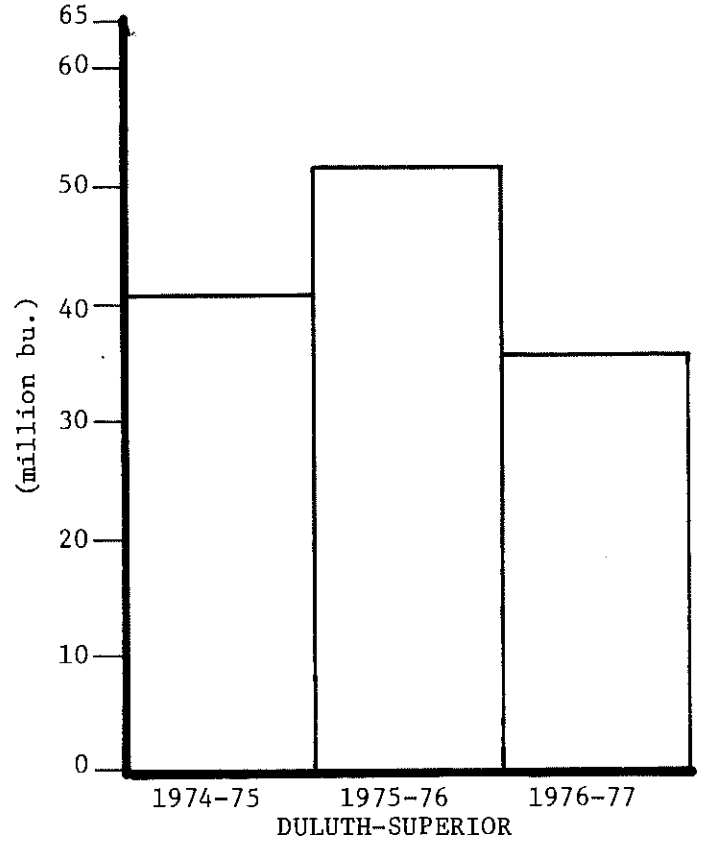
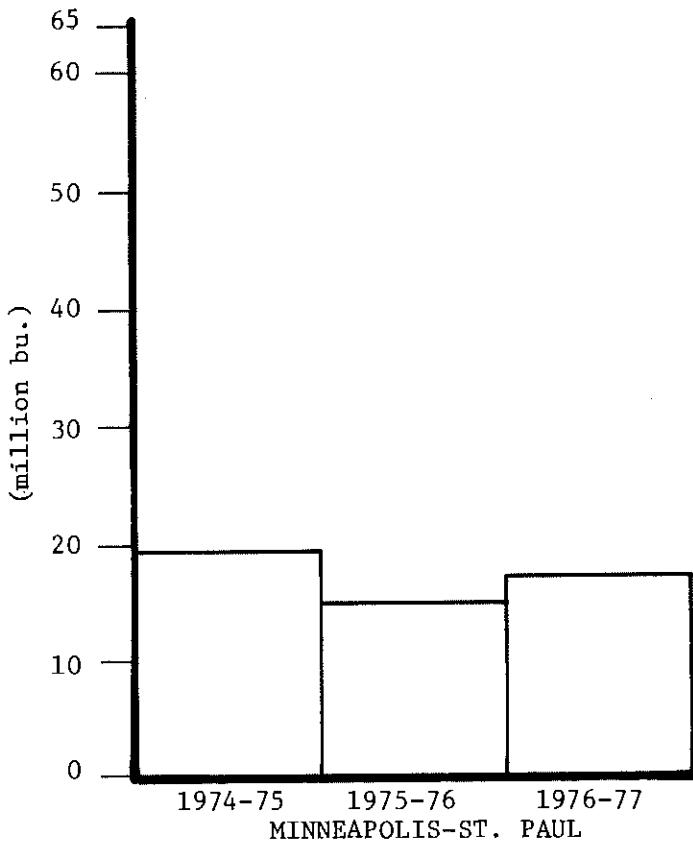


**NORTH DAKOTA DURUM SHIPMENTS
BY DESTINATION**

NORTH DAKOTA DURUM SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	19,455	14,905	17,024
DULUTH-SUPERIOR	40,728	51,553	35,537
WEST	847	434	1,636
MISCELLANEOUS MARKETS	7,751	7,925	10,827

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

DESTINATION	1974-75		1975-76		1976-77	
	Rail	Truck	Rail	Truck	Rail	Truck
	(thousand bu.)					
MINN.-ST. PAUL	18,489 (95%)	966 (5%)	12,790 (86%)	2,115 (14%)	14,664 (86%)	2,360 (14%)
DULUTH-SUPERIOR	35,770 (88%)	4,957 (12%)	42,620 (83%)	8,933 (17%)	29,747 (84%)	5,790 (16%)
WEST	608 (72%)	239 (28%)	263 (61%)	171 (39%)	481 (29%)	1,155 (71%)
MIS. MARKETS	7,505 (97%)	246 (3%)	7,184 (91%)	741 (9%)	9,681 (89%)	1,147 (11%)

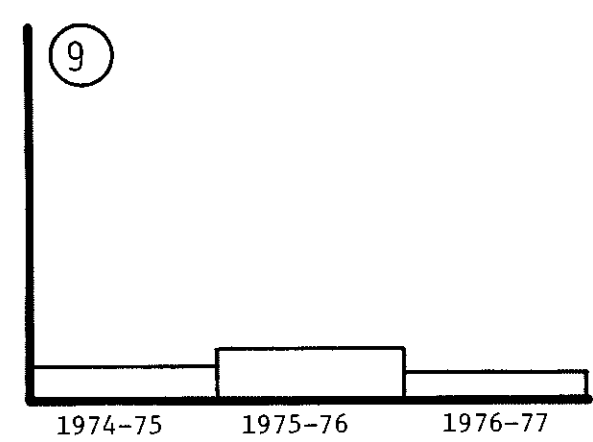
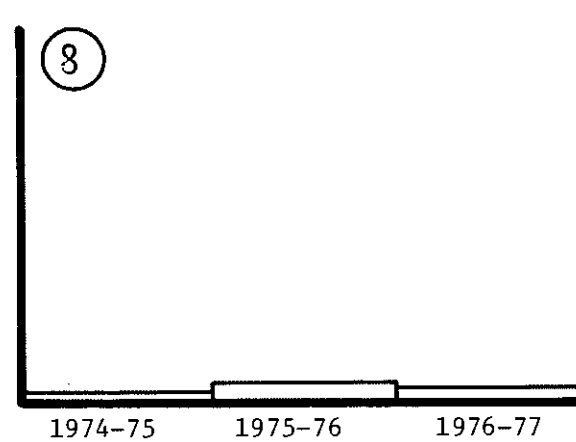
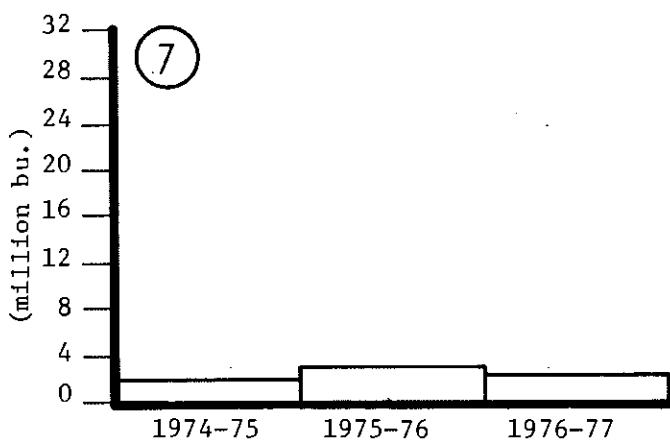
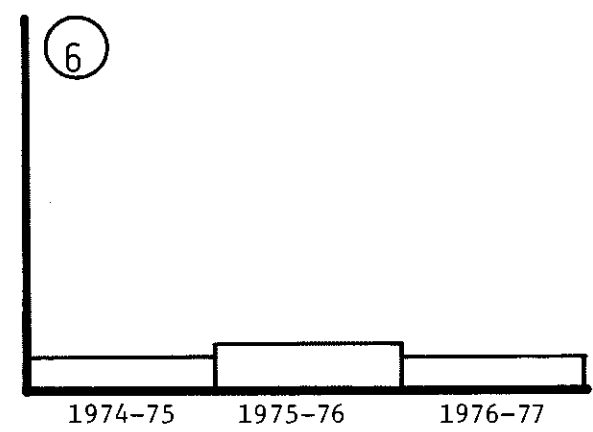
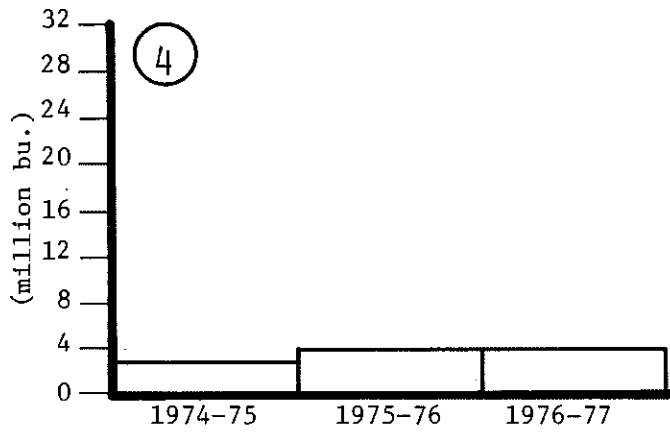
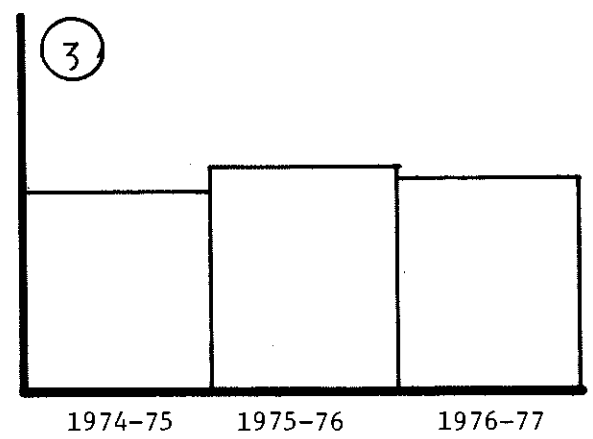
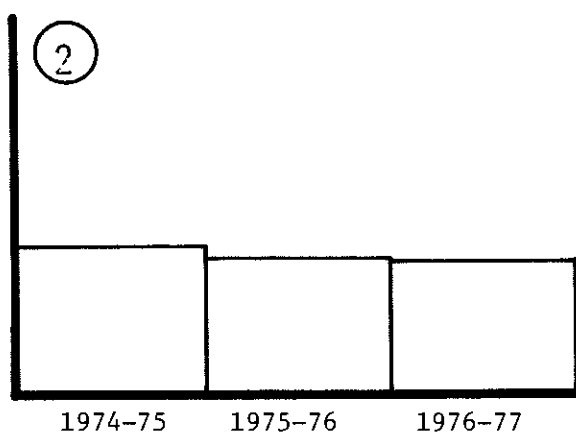
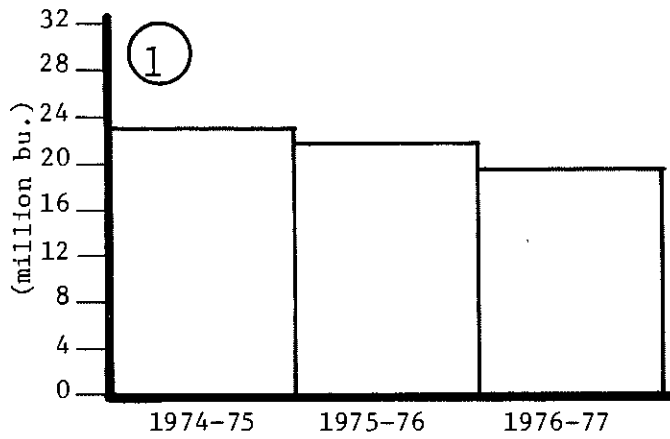


**NORTH DAKOTA DURUM SHIPMENTS
BY ORIGIN (CROP REPORTING DISTRICT)**

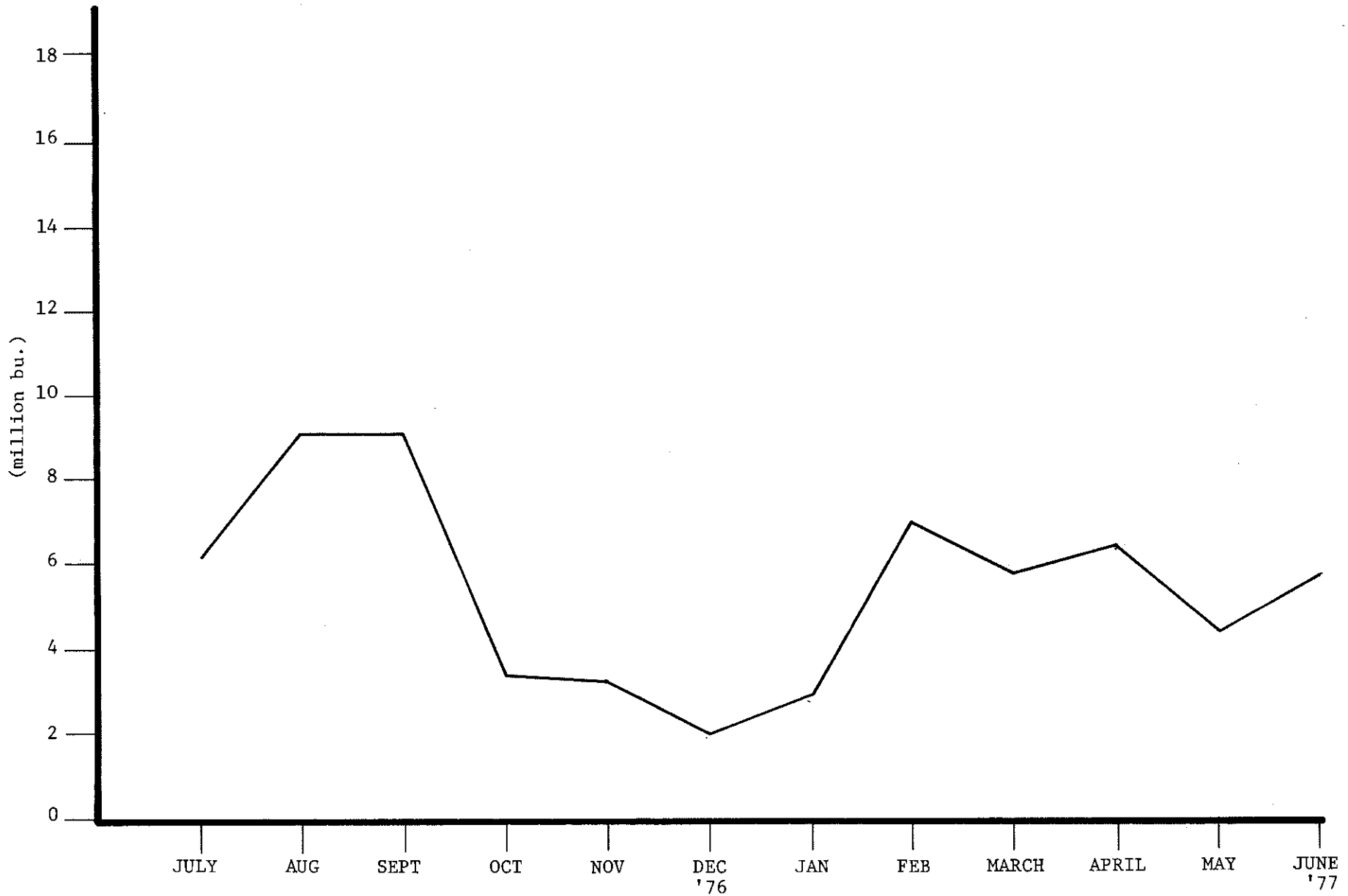
NORTH DAKOTA DURUM SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	22,973	21,573	19,420
2	12,685	11,404	11,279
3	17,326	19,272	18,168
4	2,717	3,696	3,728
5	5,466	7,270	4,960
6	2,555	3,558	2,573
7	1,871	2,844	2,013
8	543	1,331	760
9	2,642	3,870	2,123

NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICTS)



NORTH DAKOTA DURUM SHIPMENTS BY MONTH
July, 1976 - June, 1977

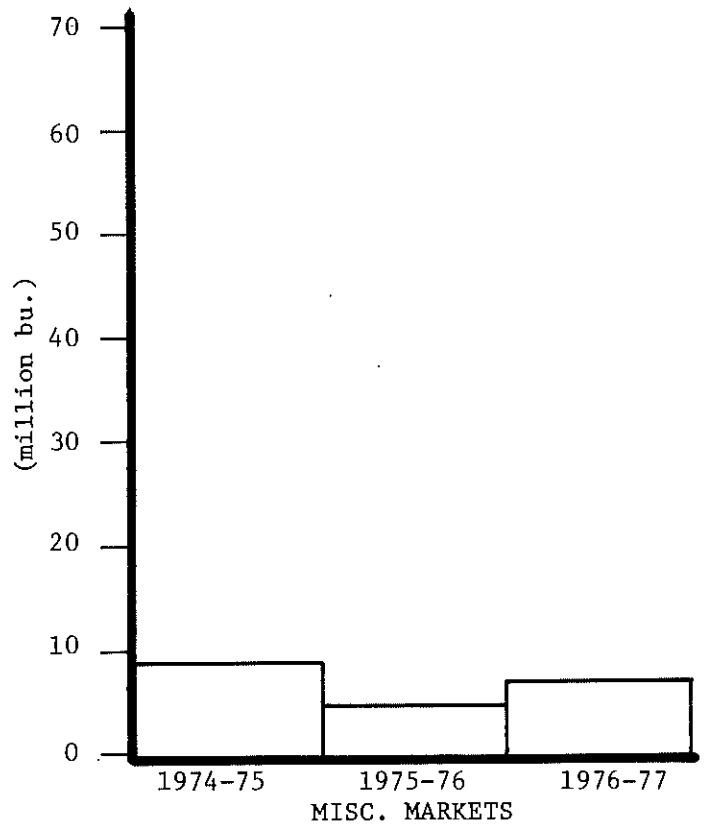
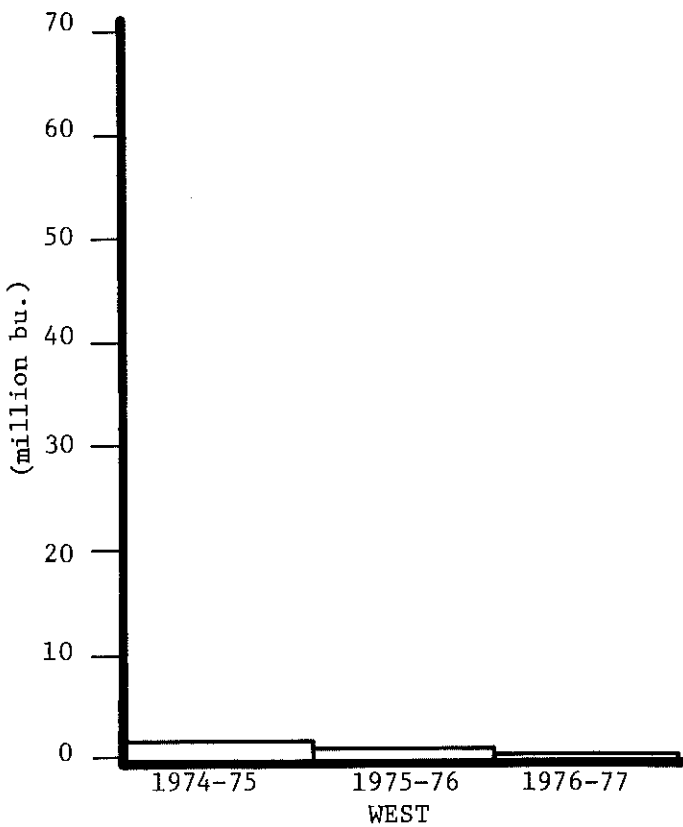
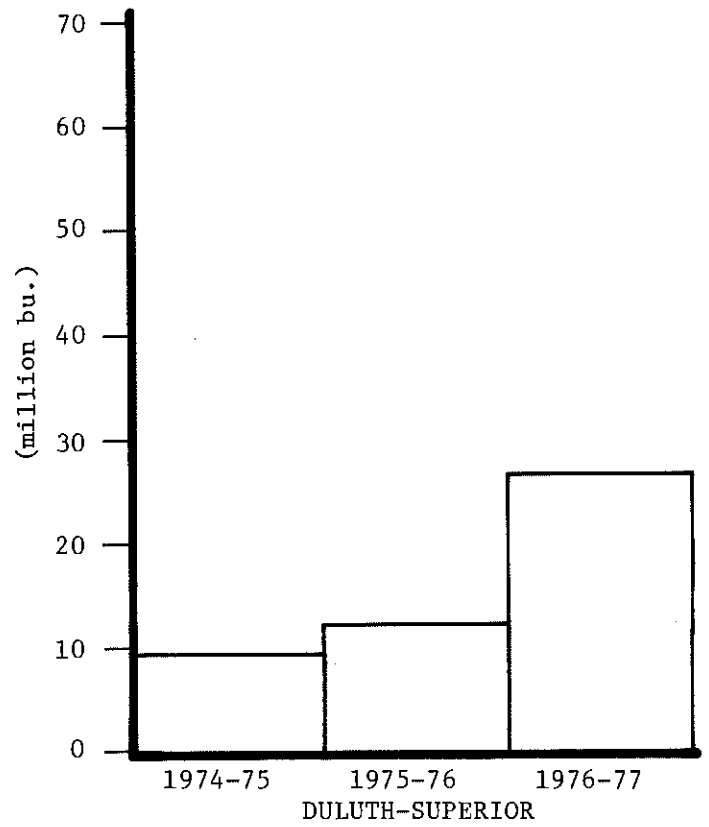
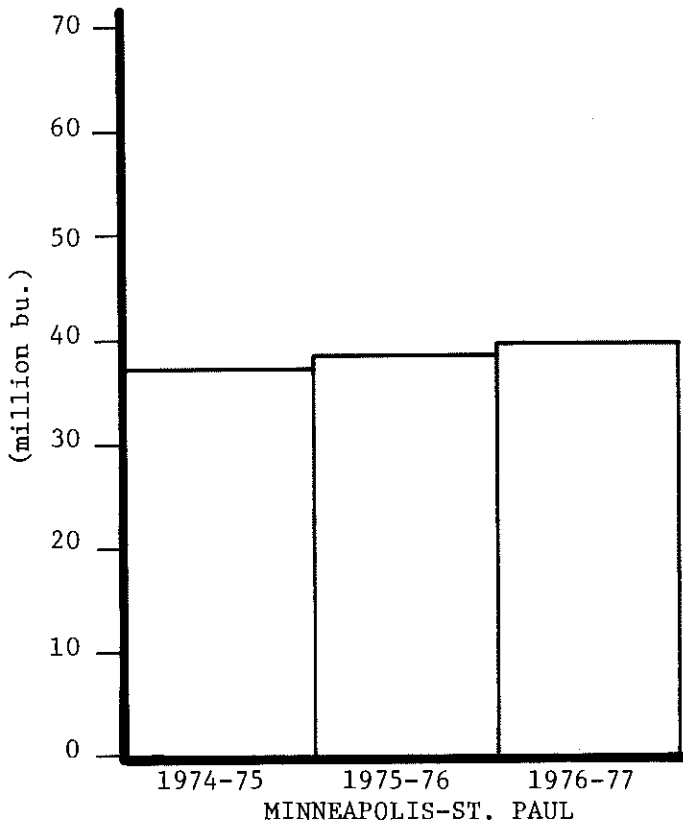


**NORTH DAKOTA BARLEY SHIPMENTS
BY DESTINATION**

NORTH DAKOTA BARLEY SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	37,461	38,710	39,728
DULUTH-SUPERIOR	9,204	12,346	26,672
WEST	1,652	893	126
MISCELLANEOUS MARKETS	8,360	4,405	6,788

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

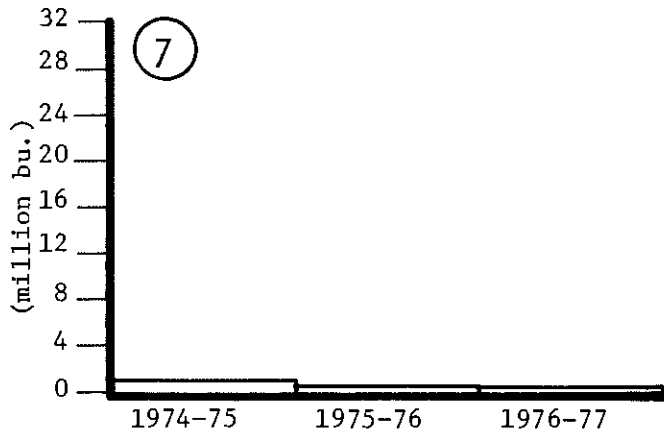
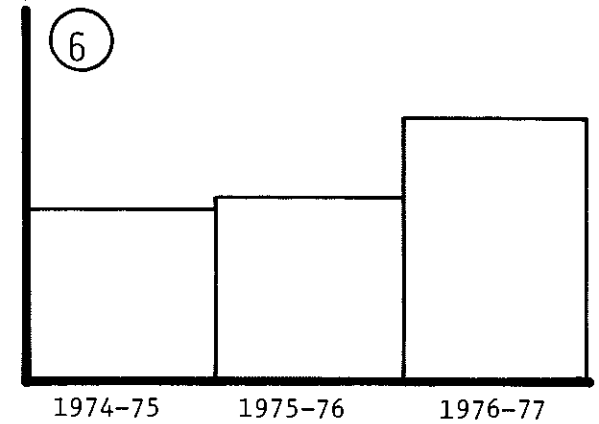
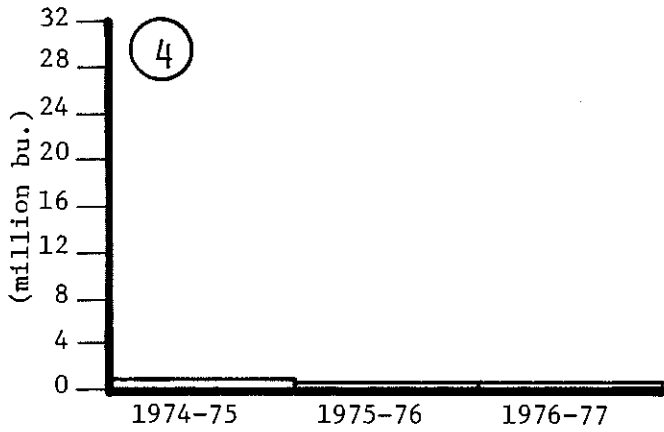
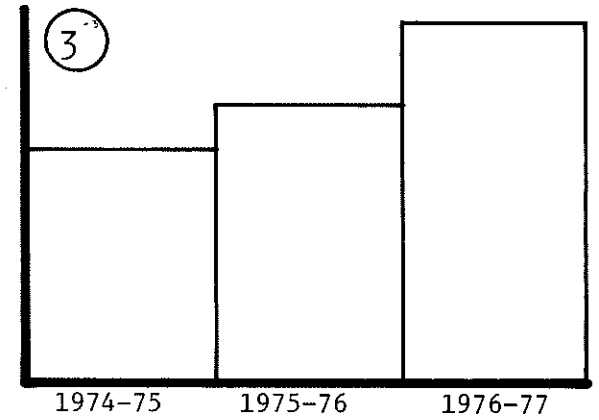
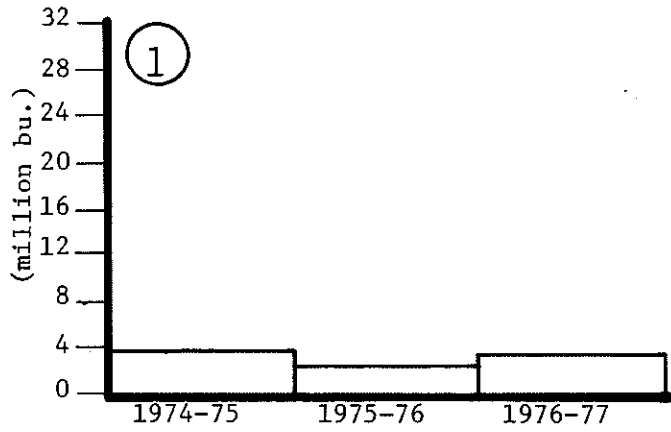
DESTINATION	1974-75		1975-76		1976-77	
	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
	(thousand bu.)					
MINN.-ST. PAUL	36,783 (98%)	678 (2%)	37,566 (97%)	1,144 (3%)	37,974 (96%)	1,753 (4%)
DULUTH-SUPERIOR	6,235 (68%)	2,969 (32%)	6,331 (51%)	6,015 (49%)	5,792 (22%)	20,880 (78%)
WEST	646 (39%)	1,006 (61%)	128 (14%)	765 (86%)	74 (58%)	52 (42%)
MISC. MARKETS	5,607 (67%)	2,753 (33%)	3,411 (77%)	994 (23%)	4,329 (64%)	2,459 (36%)

**NORTH DAKOTA BARLEY SHIPMENTS
BY ORIGIN (CROP REPORTING DISTRICT)**

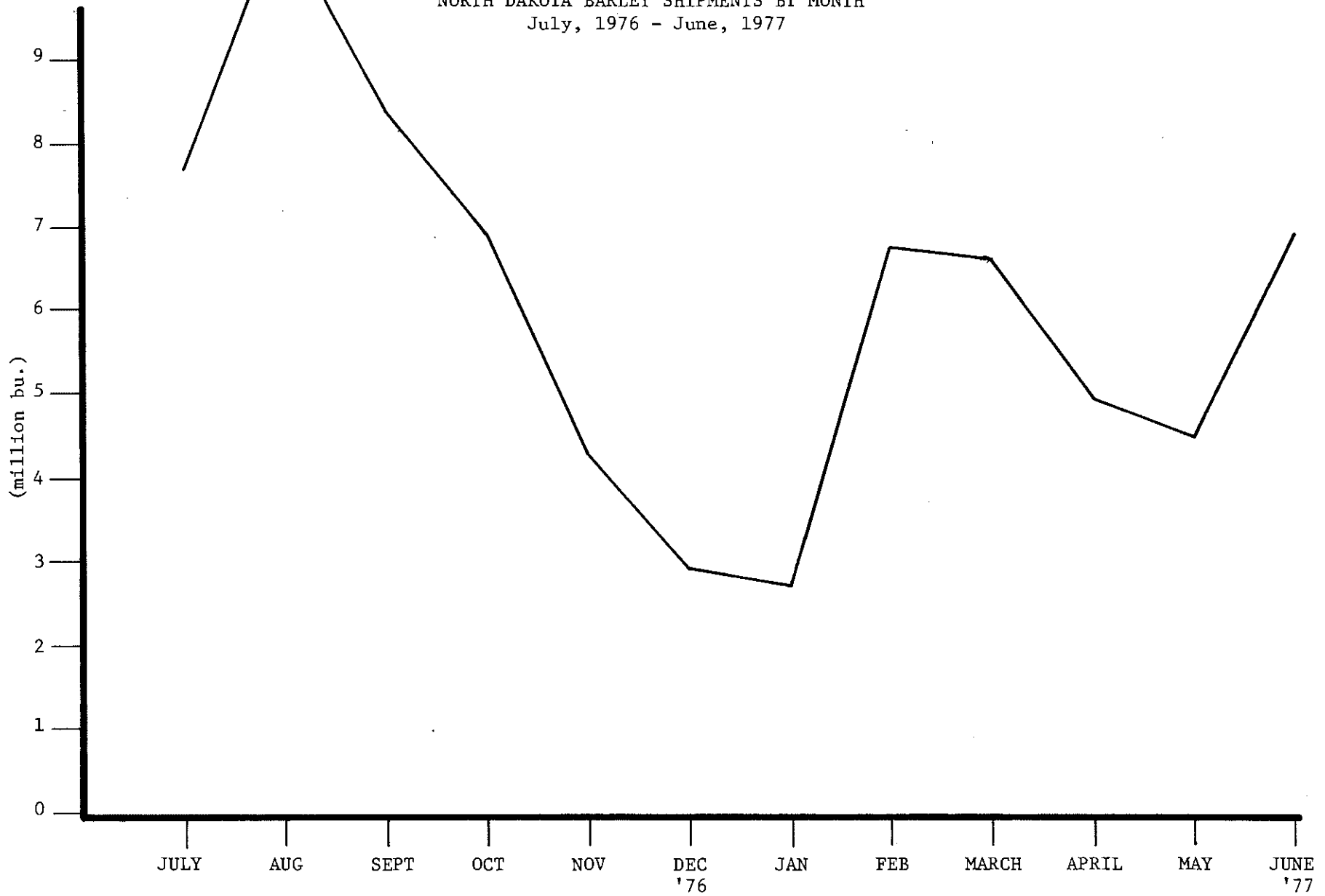
NORTH DAKOTA BARLEY SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	3,813	2,183	3,229
2	6,023	4,621	7,761
3	19,947	23,698	30,727
4	462	339	345
5	5,321	4,439	4,773
6	14,602	15,619	22,440
7	1,075	386	300
8	136	342	237
9	5,294	4,728	3,501

NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA BARLEY SHIPMENTS BY MONTH
July, 1976 - June, 1977

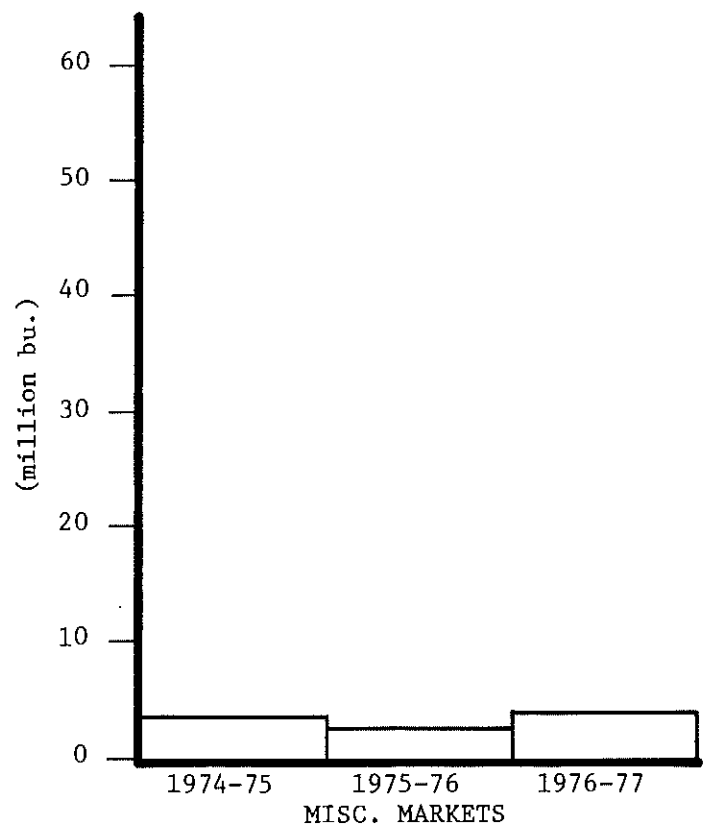
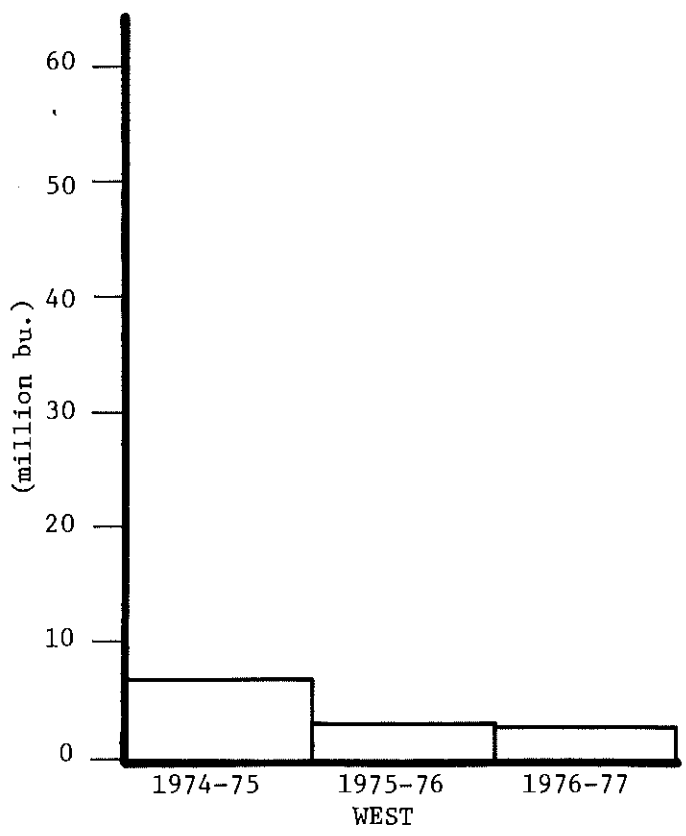
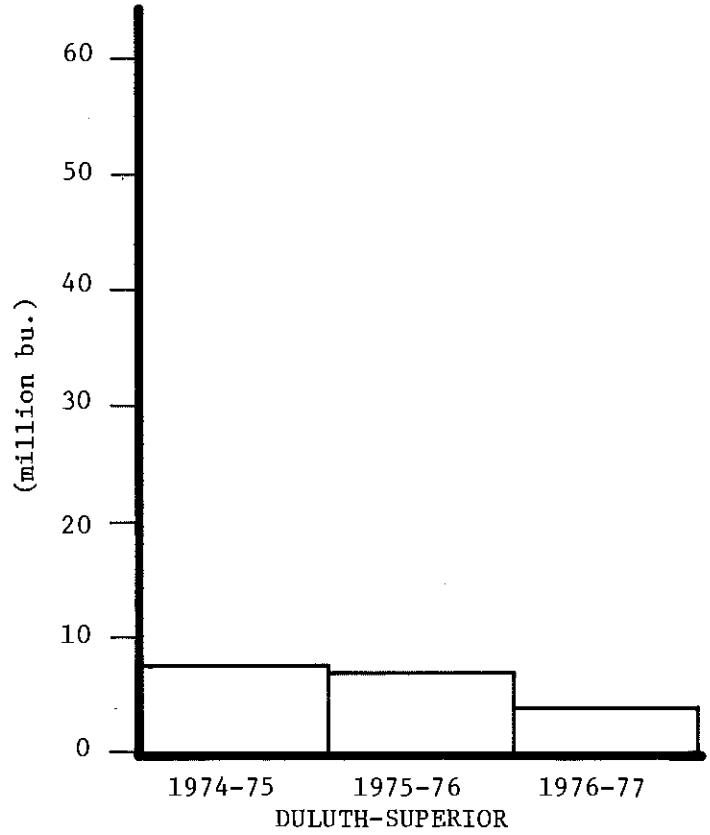
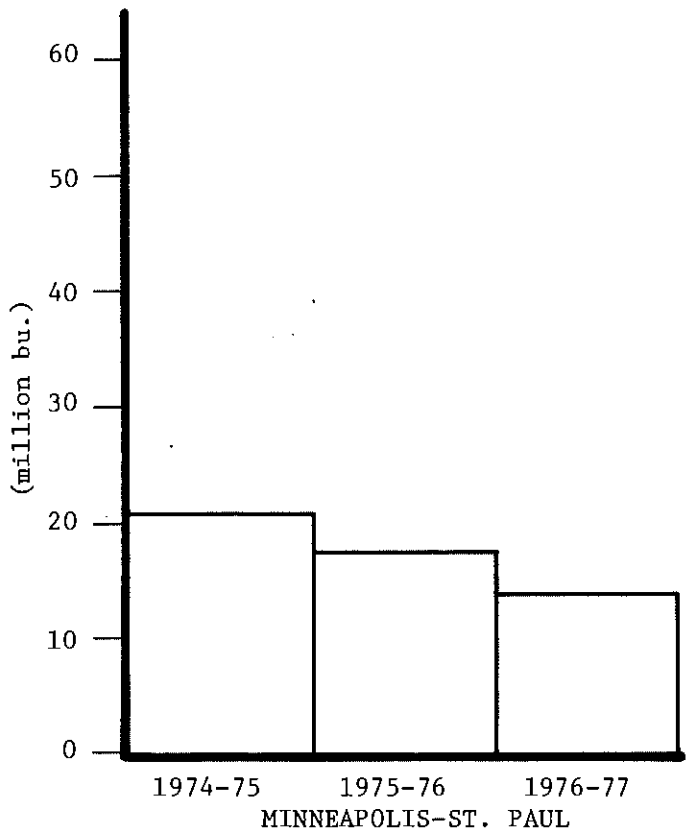


**NORTH DAKOTA OATS SHIPMENTS
BY DESTINATION**

NORTH DAKOTA OATS SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	10,439	8,779	6,769
DULUTH-SUPERIOR	3,752	3,531	1,932
WEST	3,446	1,458	1,427
MISCELLANEOUS MARKETS	1,825	1,334	2,031

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

DESTINATION	1974-75		1975-76		1976-77	
	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
	(thousand bu.)					
MINN.-ST. PAUL	8,148 (78%)	2,291 (22%)	7,300 (83%)	1,479 (17%)	4,602 (68%)	2,166 (32%)
DULUTH-SUPERIOR	1,373 (38%)	2,199 (62%)	1,442 (41%)	2,090 (59%)	761 (39%)	1,171 (61%)
WEST	319 (9%)	3,127 (91%)	92 (6%)	1,366 (94%)	121 (8%)	1,306 (92%)
MISC. MARKETS	316 (17%)	1,509 (83%)	304 (23%)	1,031 (77%)	231 (11%)	1,800 (89%)

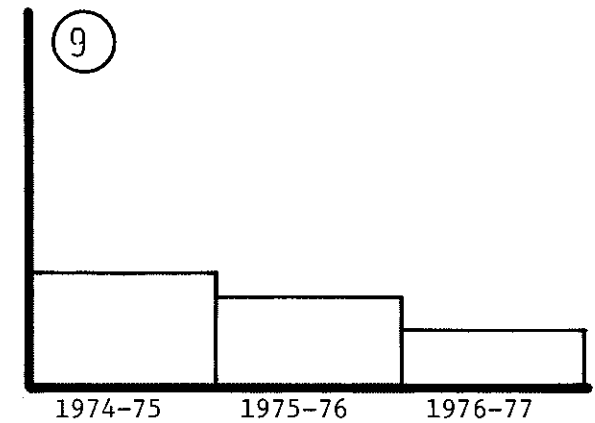
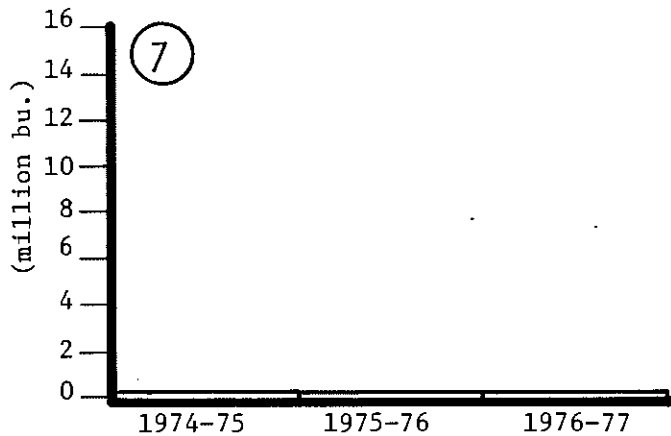
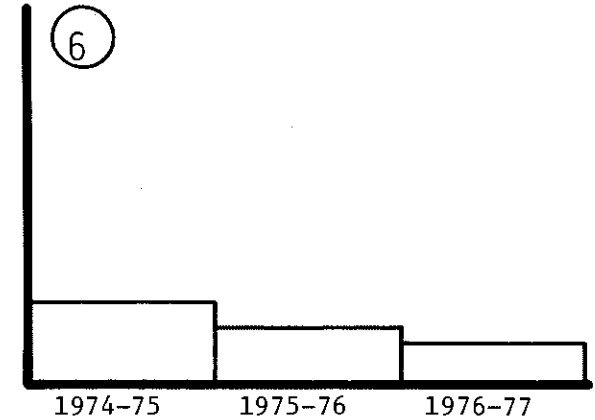
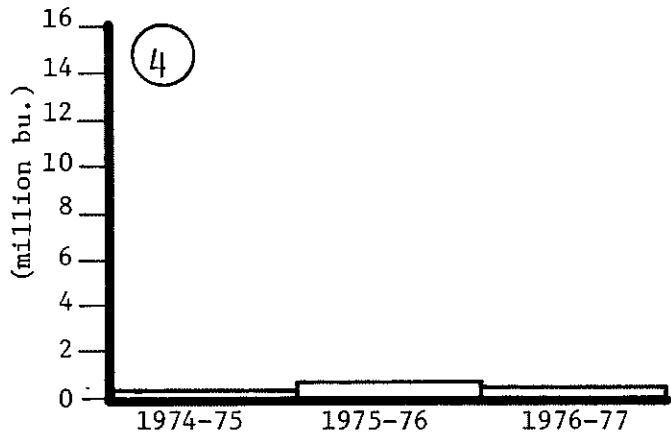
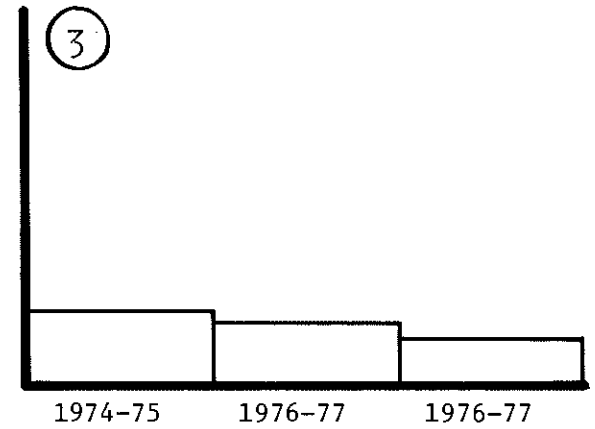
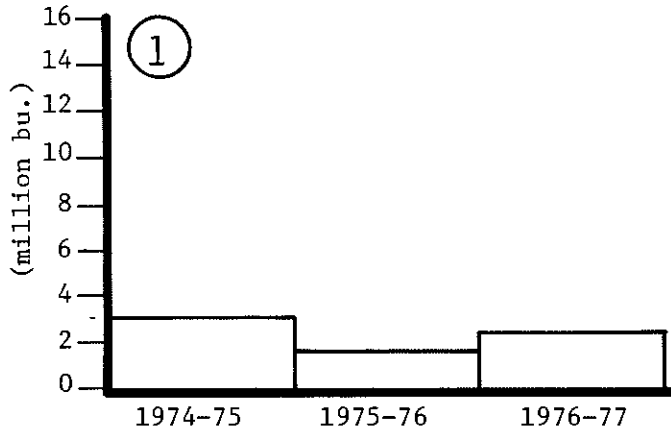


**NORTH DAKOTA OATS SHIPMENTS
BY ORIGIN (CROP REPORTING DISTRICT)**

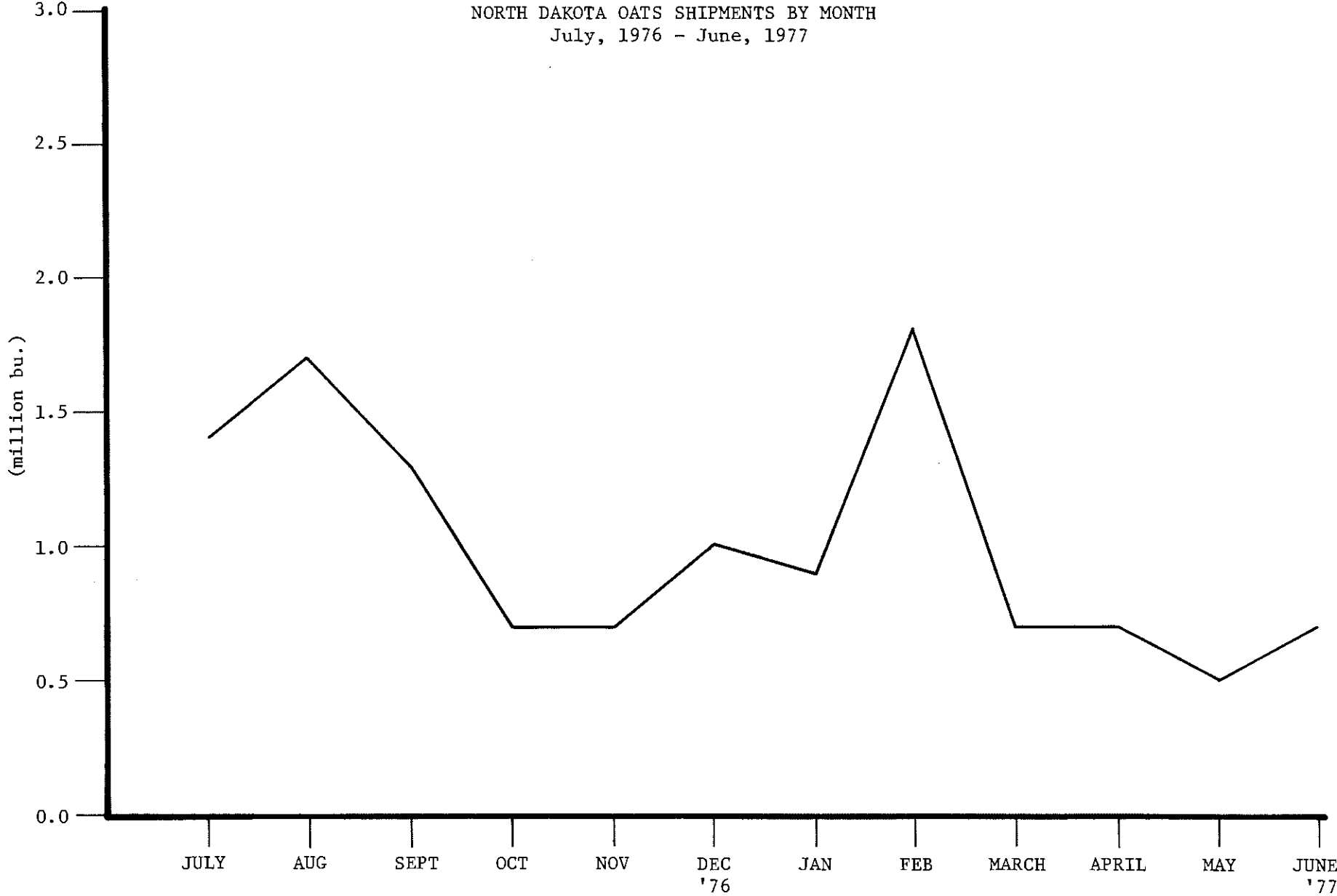
NORTH DAKOTA OATS SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	3,103	1,613	2,309
2	2,221	1,806	2,081
3	3,153	2,590	1,904
4	283	596	436
5	2,095	1,757	976
6	3,426	2,297	1,733
7	266	163	225
8	65	573	226
9	4,668	3,709	2,269

NORTH DAKOTA OATS SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA OATS SHIPMENTS BY MONTH
July, 1976 - June, 1977

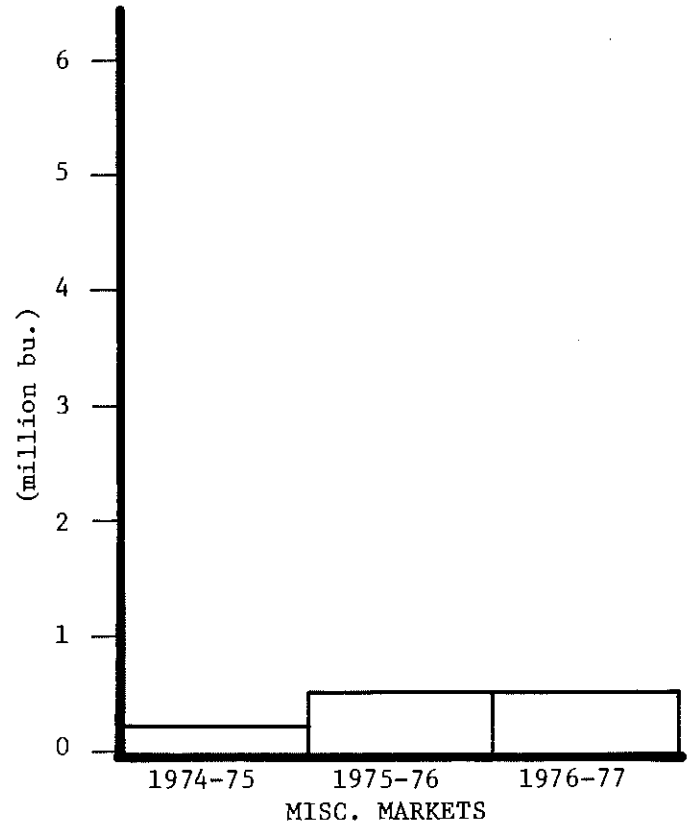
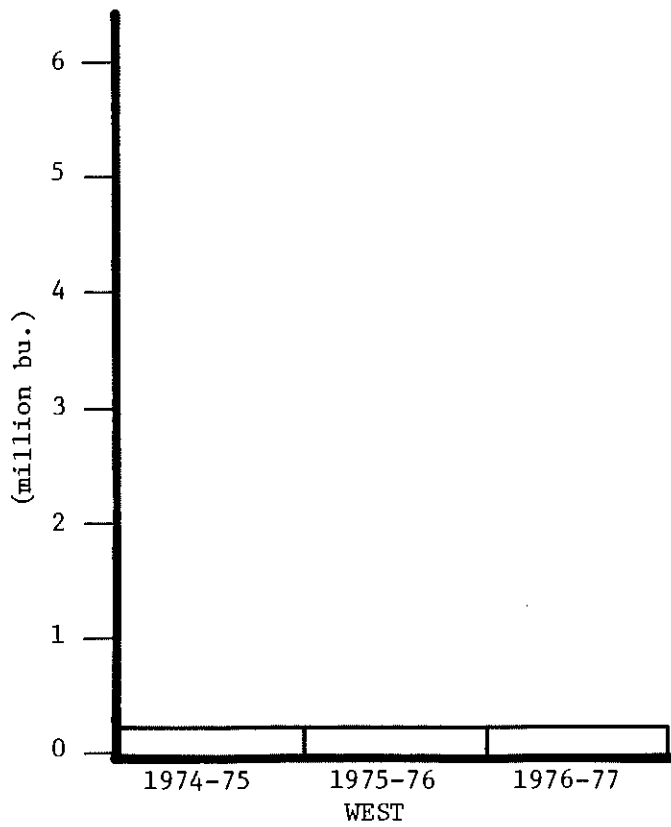
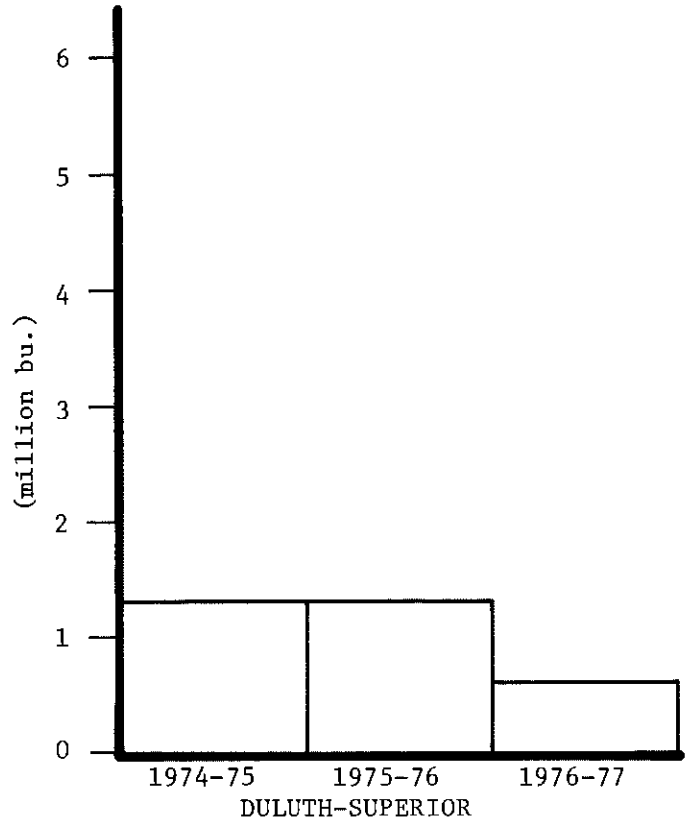
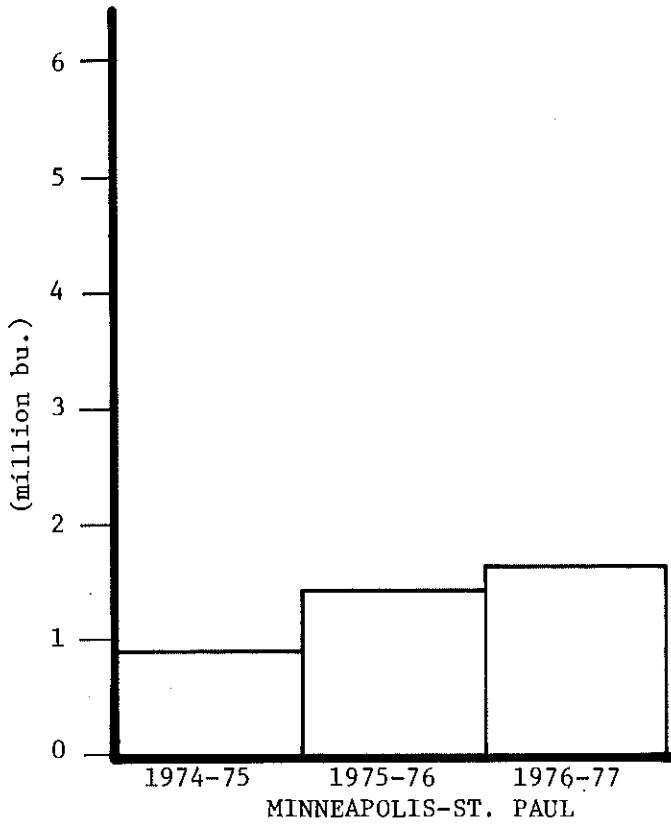


**NORTH DAKOTA RYE SHIPMENTS
BY DESTINATION**

NORTH DAKOTA RYE SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	899	1,438	1,612
DULUTH-SUPERIOR	1,316	1,331	557
WEST	100	71	86
MISCELLANEOUS MARKETS	198	455	514

NORTH DAKOTA RYE SHIPMENTS
BY DESTINATION



**NORTH DAKOTA RYE SHIPMENTS BY
RAIL AND TRUCK AND DESTINATION**

NORTH DAKOTA RYE SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77	
	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
	(thousand bu.)					
MINN.-ST. PAUL	703 (78%)	196 (22%)	1,085 (75%)	353 (25%)	1,009 (63%)	603 (37%)
DULUTH-SUPERIOR	779 (59%)	538 (41%)	588 (44%)	743 (56%)	311 (56%)	246 (44%)
WEST	9 (9%)	91 (91%)	0 (0%)	71 (100%)	6 (7%)	80 (93%)
MISC. MARKETS	100 (50%)	98 (50%)	245 (54%)	210 (46%)	267 (52%)	247 (48%)

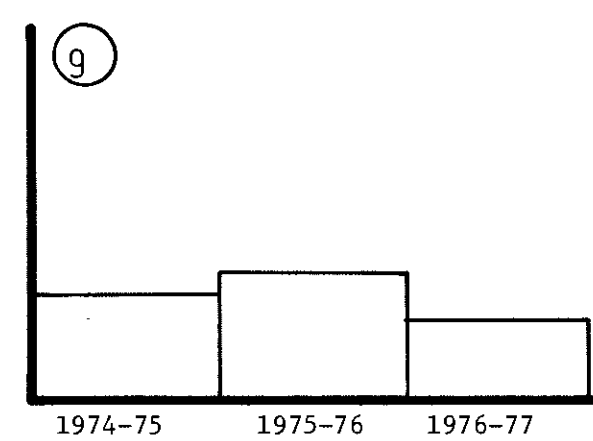
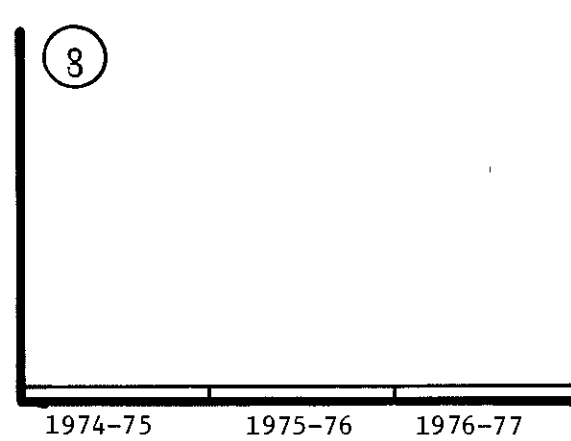
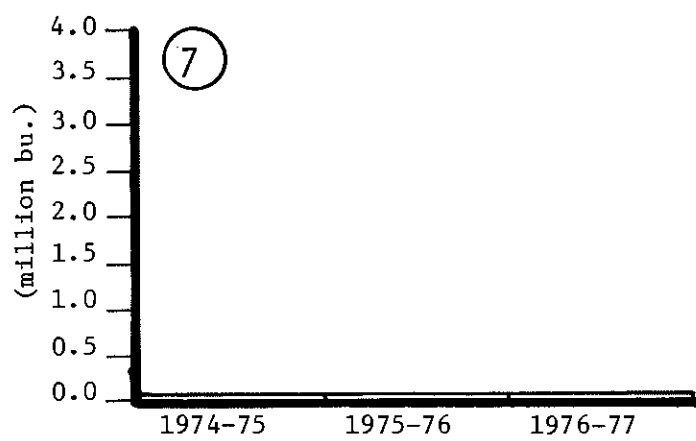
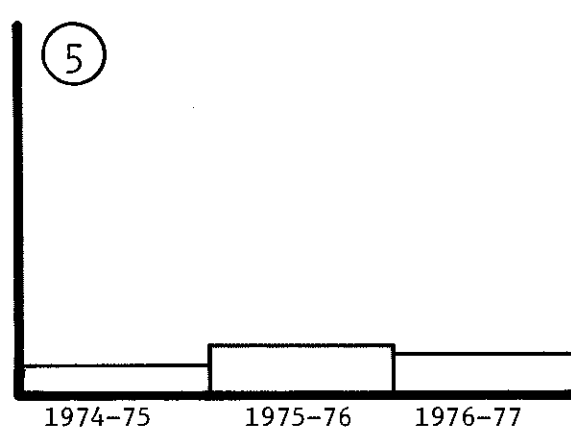
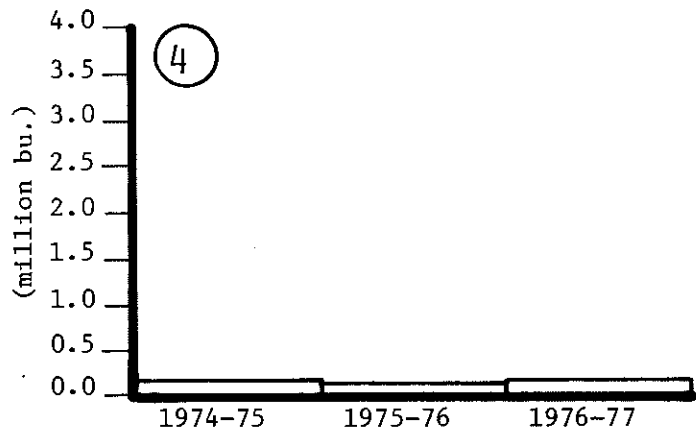
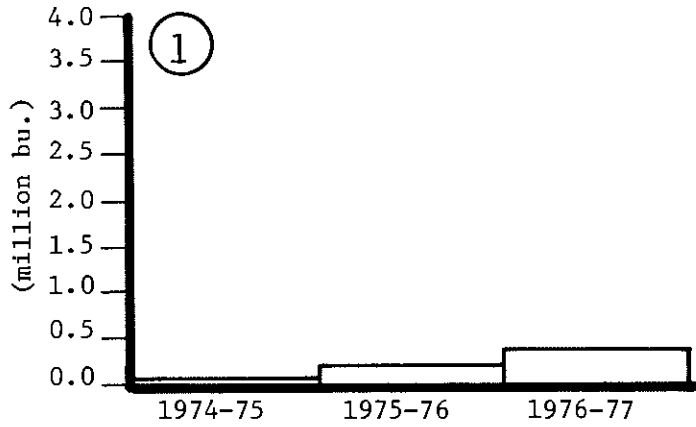


**NORTH DAKOTA RYE SHIPMENTS
BY ORIGIN (CROP REPORTING DISTRICT)**

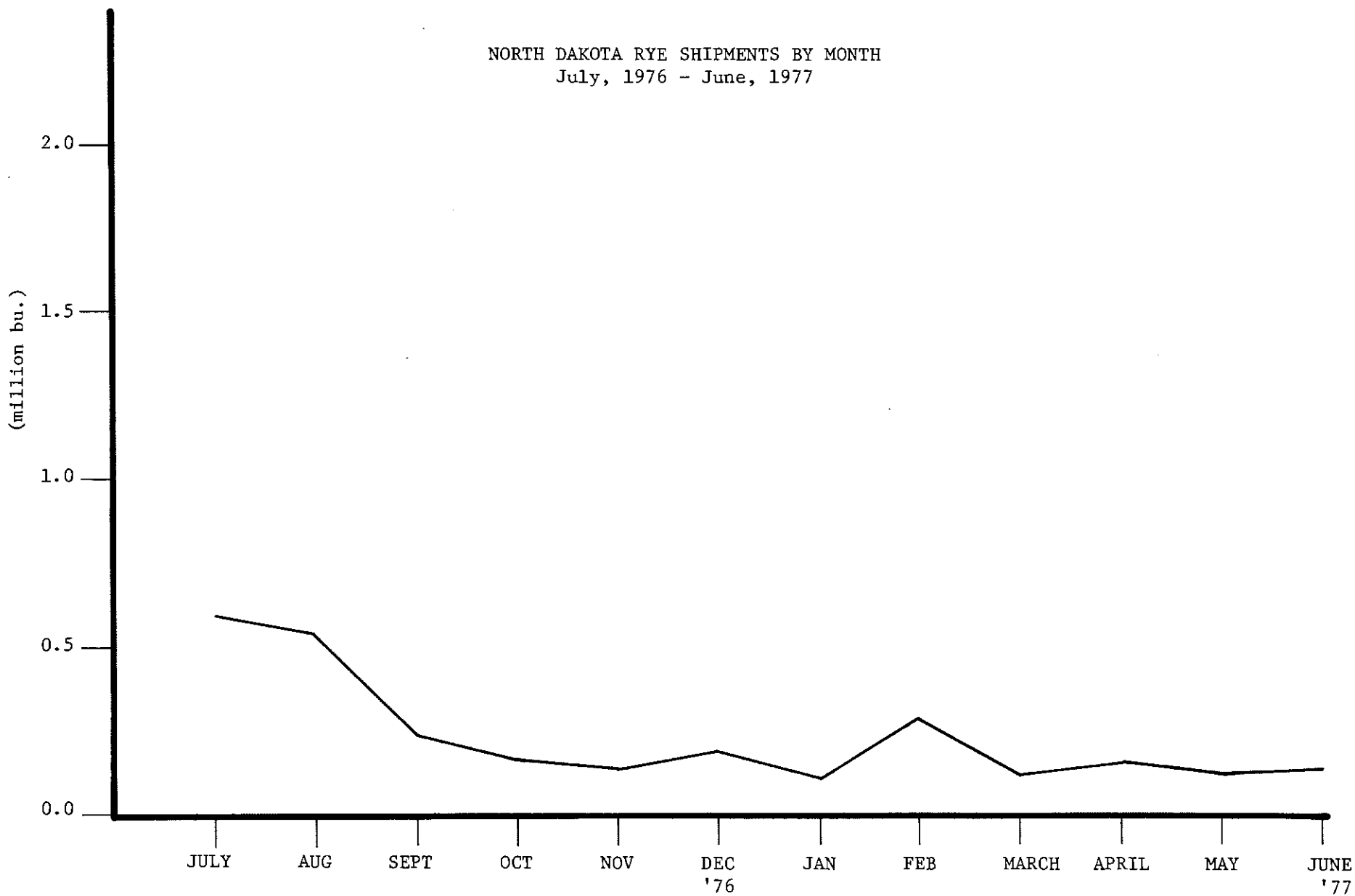
NORTH DAKOTA RYE SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	59	218	285
2	221	541	557
3	87	222	189
4	147	71	124
5	347	518	444
6	209	206	161
7	71	77	93
8	103	134	118
9	1,170	1,305	799

NORTH DAKOTA RYE SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA RYE SHIPMENTS BY MONTH
July, 1976 - June, 1977

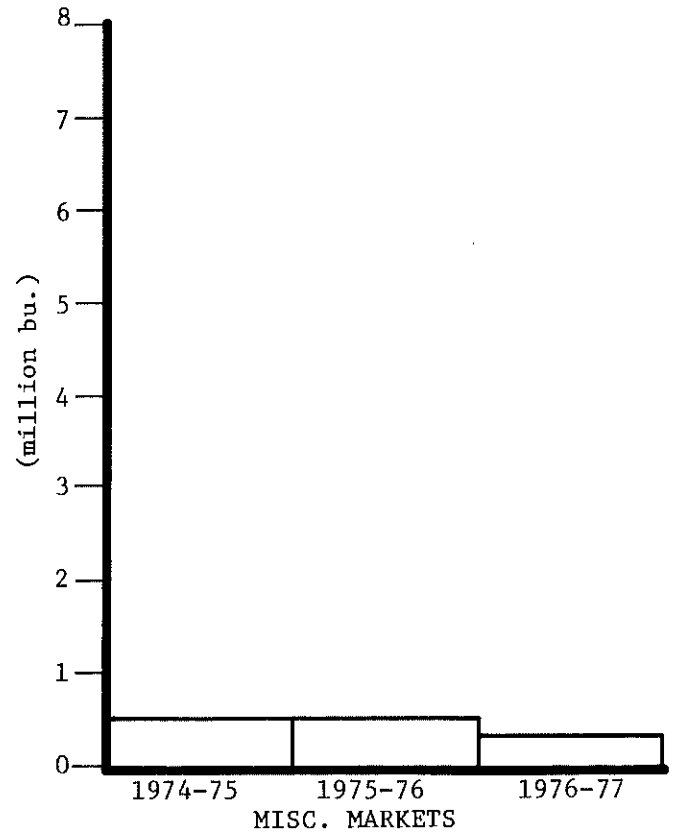
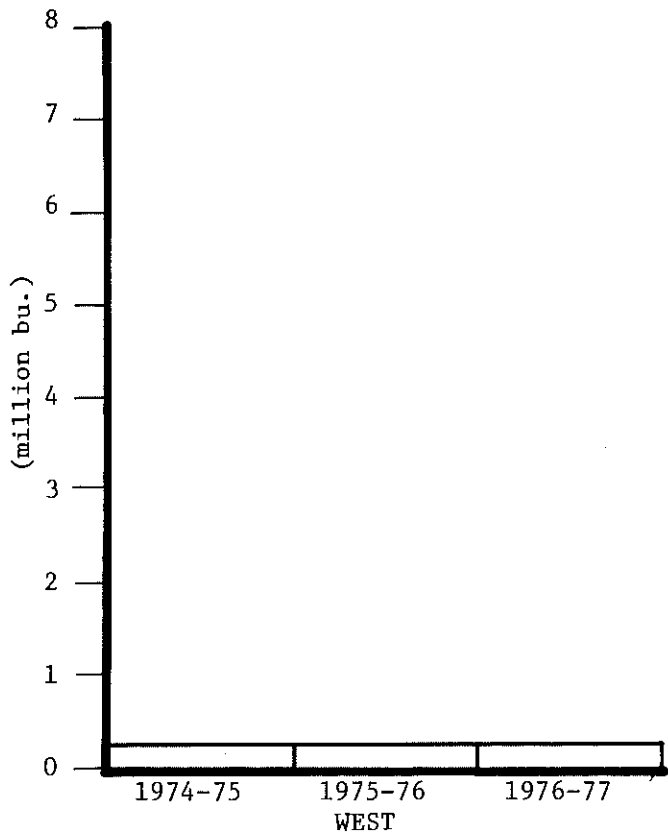
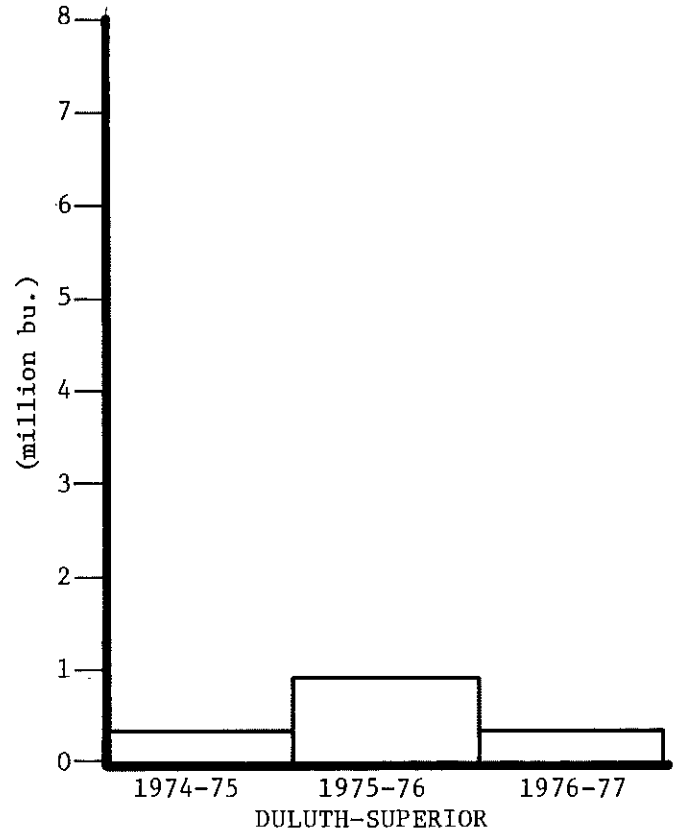
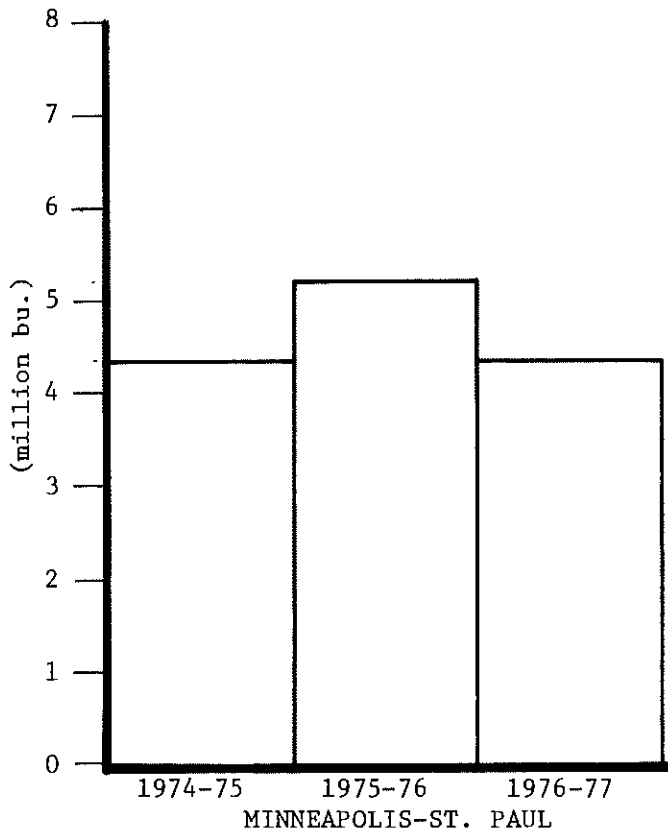


**NORTH DAKOTA FLAX SHIPMENTS
BY DESTINATION**

NORTH DAKOTA FLAX SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77
		(thousand bu.)	
MINNEAPOLIS-ST. PAUL	4,354	5,170	4,260
DULUTH-SUPERIOR	346	855	284
WEST	69	60	59
MISCELLANEOUS MARKETS	531	505	279

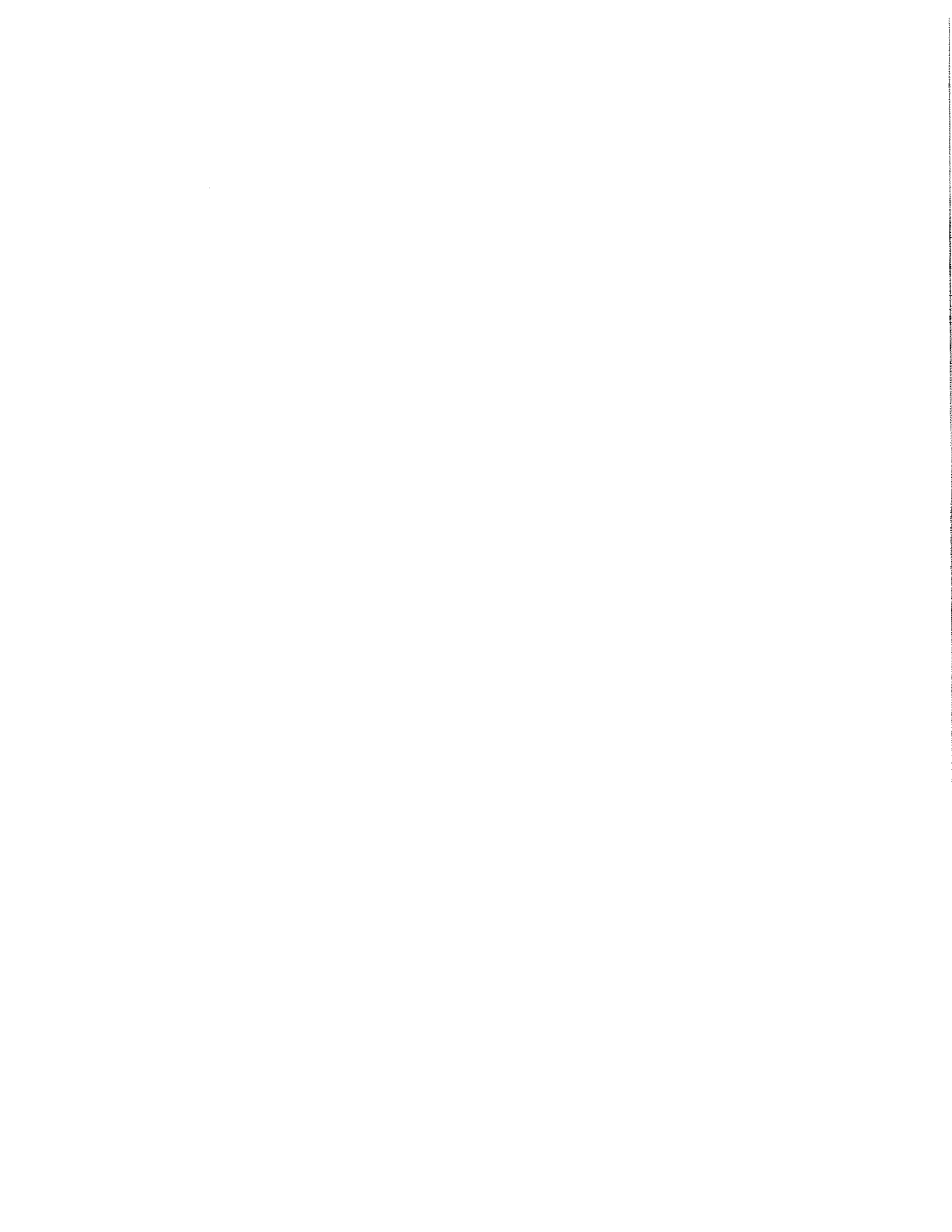
NORTH DAKOTA FLAX SHIPMENTS
BY DESTINATION



**NORTH DAKOTA FLAX SHIPMENTS BY
RAIL AND TRUCK AND DESTINATION**

NORTH DAKOTA FLAX SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77	
	RAIL	TRUCK	RAIL	TRUCK	RAIL	TRUCK
	(thousand bu.)					
MINN.-ST. PAUL	915 (21%)	3,439 (79%)	1,213 (23%)	3,957 (77%)	1,046 (25%)	3,214 (75%)
DULUTH-SUPERIOR	55 (16%)	291 (84%)	317 (37%)	538 (63%)	102 (36%)	183 (64%)
WEST	0 (0%)	69 (100%)	0 (0%)	60 (100%)	0 (0%)	59 (100%)
MISC. MARKETS	78 (15%)	453 (85%)	31 (6%)	474 (94%)	206 (74%)	74 (26%)

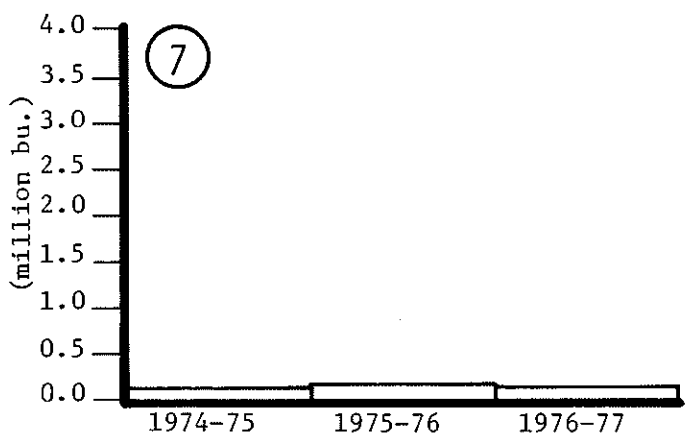
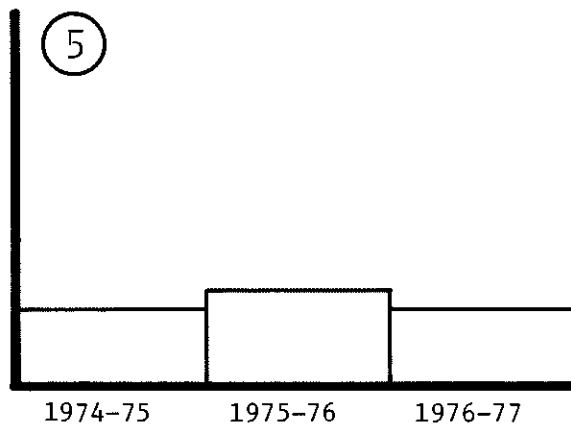
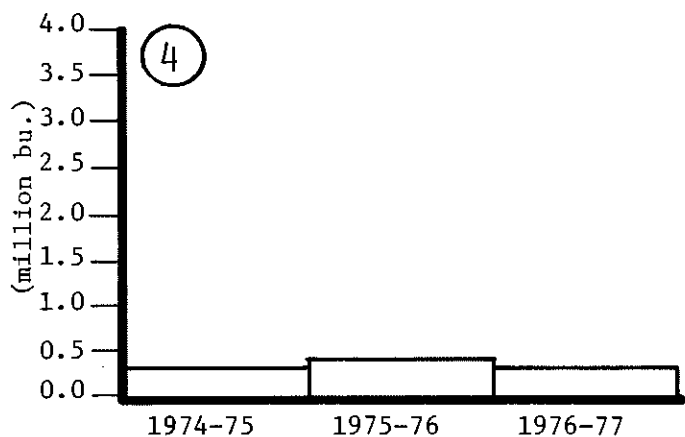
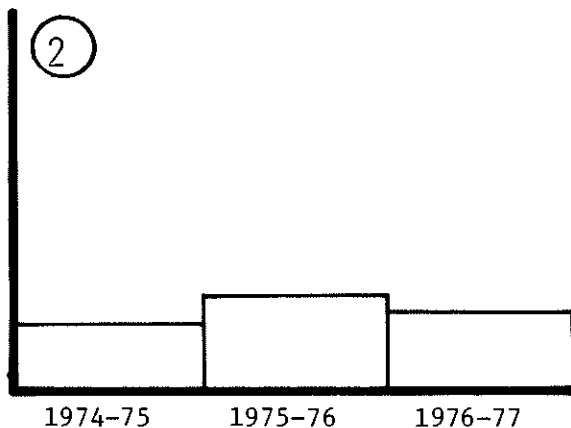
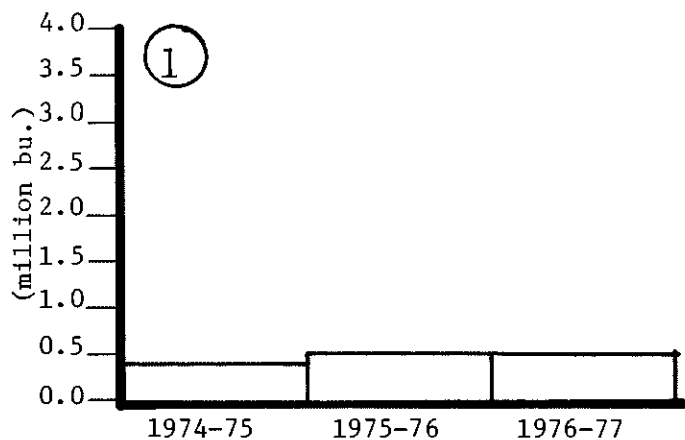


**NORTH DAKOTA FLAX SHIPMENTS
BY ORIGIN (CROP REPORTING DISTRICT)**

NORTH DAKOTA FLAX SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77
	(thousand bu.)		
1	426	487	450
2	707	1,047	794
3	703	929	656
4	258	371	307
5	806	986	829
6	889	819	491
7	78	135	98
8	236	424	323
9	1,196	1,393	935

NORTH DAKOTA FLAX SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA FLAX SHIPMENTS BY MONTH
July, 1976 - June, 1977

