

**NORTH DAKOTA GRAIN AND OILSEED
TRANSPORTATION STATISTICS
1977-78**

By

Gene C. Griffin

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**NORTH DAKOTA GRAIN AND OILSEED
TRANSPORTATION STATISTICS
1977-78**

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**

NOVEMBER 1978

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 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 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
1977-78

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 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.

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, 1977 to June, 1978.

Commodity shipped: 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, 1977 through June, 1978, 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.

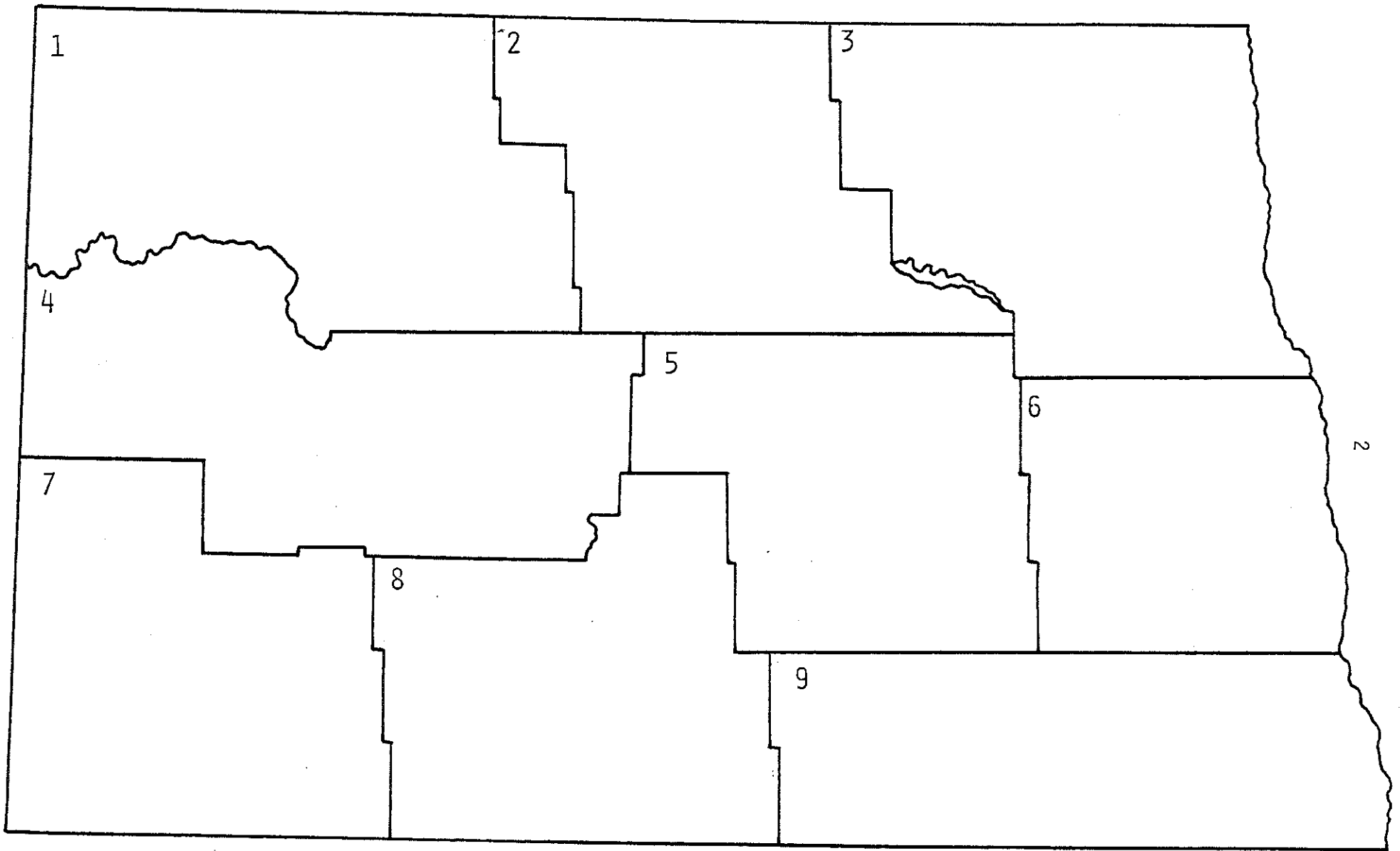


Figure 1. North Dakota Crop Reporting Districts

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.

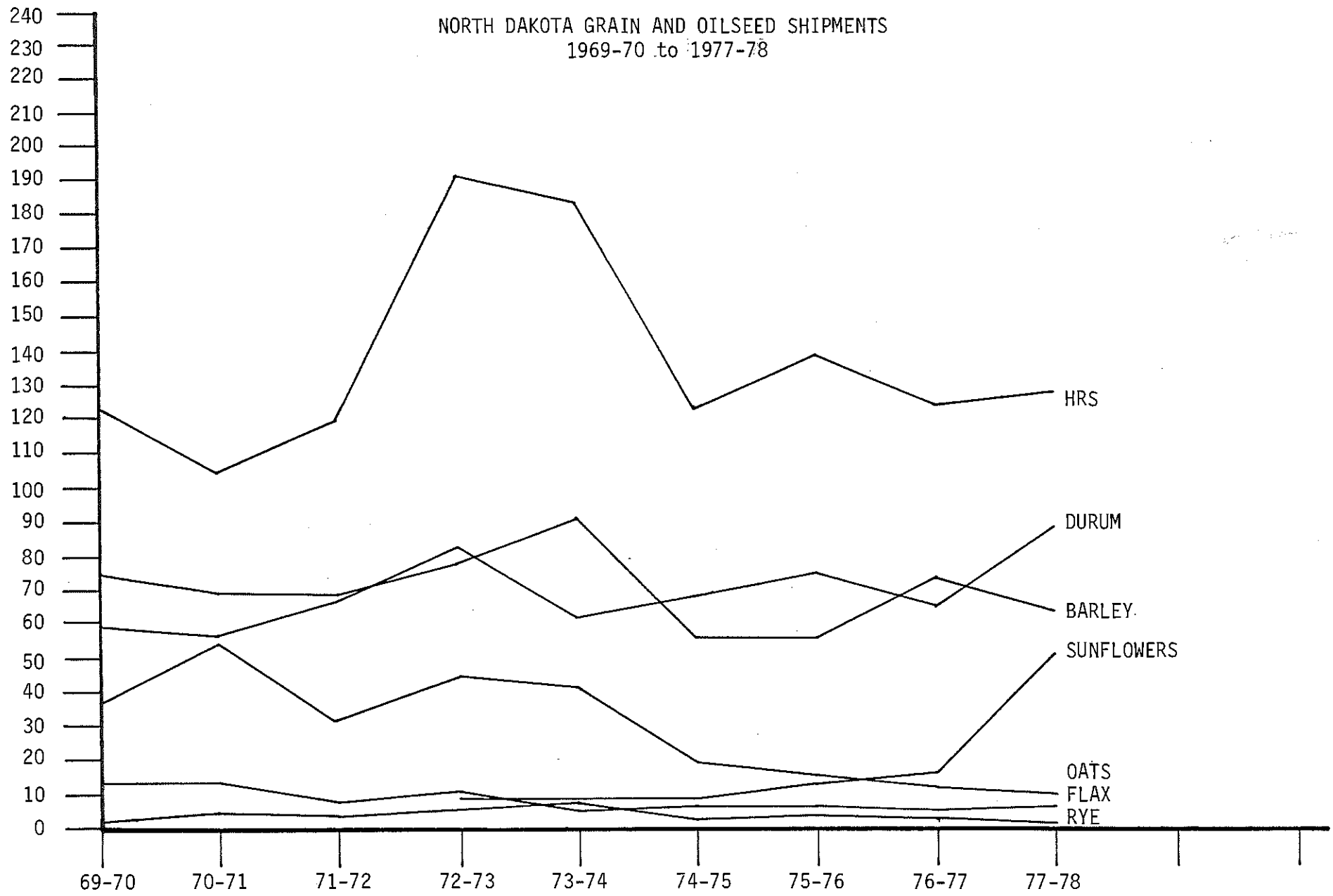
In addition, the number, type and volume of data has been condensed considerably relative to earlier reports with greater reliance placed on the graphical presentation of basic data. It is the intention of this report to get people to understand its content through "reading it for themselves."

NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS^a
1969-70 to 1977-78

	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78
	(thousand bu.)								
HARD RED SPRING	120,330 (39%)	105,800 (35%)	119,944 (40%)	191,696 (44%)	183,567 (45%)	122,934 (42%)	139,361 (44%)	123,976 (41%)	127,953 (36%)
DURUM	58,540 (19%)	57,317 (19%)	66,184 (22%)	83,351 (19%)	60,758 (15%)	68,781 (24%)	74,817 (23%)	65,024 (21%)	88,366 (25%)
BARLEY	74,528 (24%)	68,996 (23%)	68,436 (23%)	78,384 (18%)	91,739 (22%)	56,671 (19%)	56,355 (18%)	73,314 (24%)	63,115 (18%)
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%)
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%)
RYE	1,672 (1%)	4,675 (2%)	3,701 (1%)	5,009 (1%)	7,721 (2%)	2,513 (1%)	3,293 (1%)	2,769 (1%)	1,772 (1%)
FLAX SEED	13,133 (4%)	13,540 (4%)	8,796 (3%)	11,411 (3%)	6,871 (2%)	5,300 (2%)	6,590 (2%)	4,883 (2%)	6,174 (2%)
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%)
TOTAL	305,211 (100%)	305,377 (100%)	299,070 (100%)	433,208 (100%)	411,381 (100%)	291,582 (100%)	320,285 (100%)	305,912 (100%)	358,604 (100%)

^aIncludes CCC shipments.

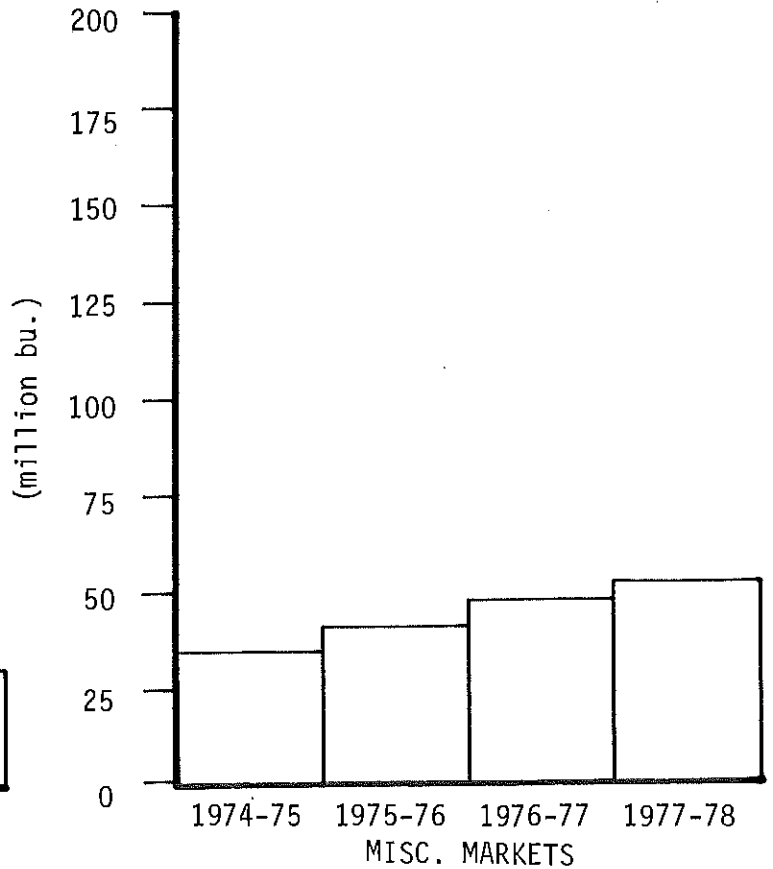
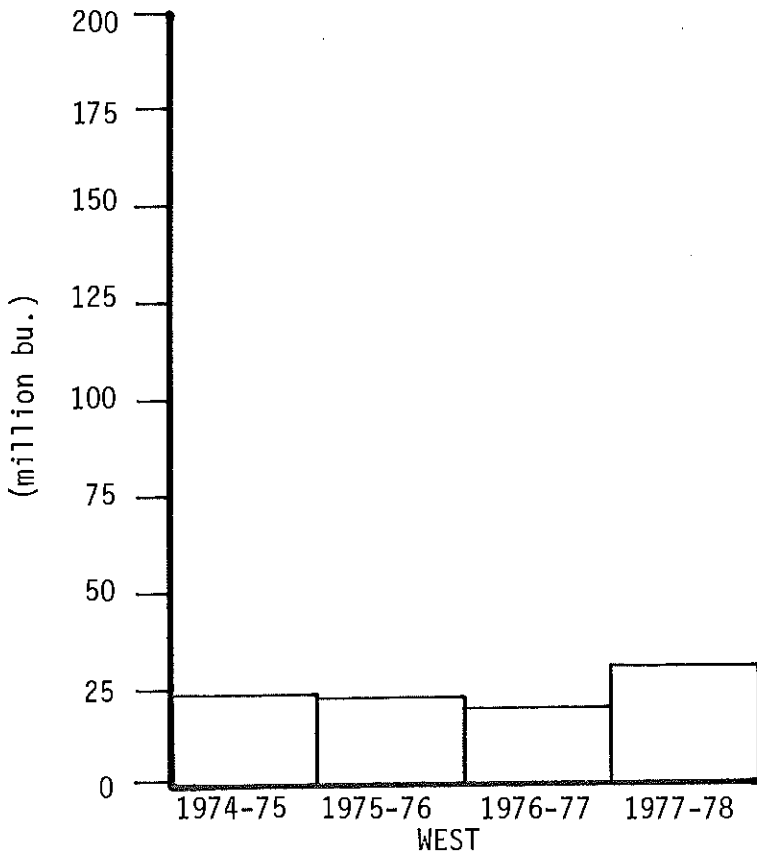
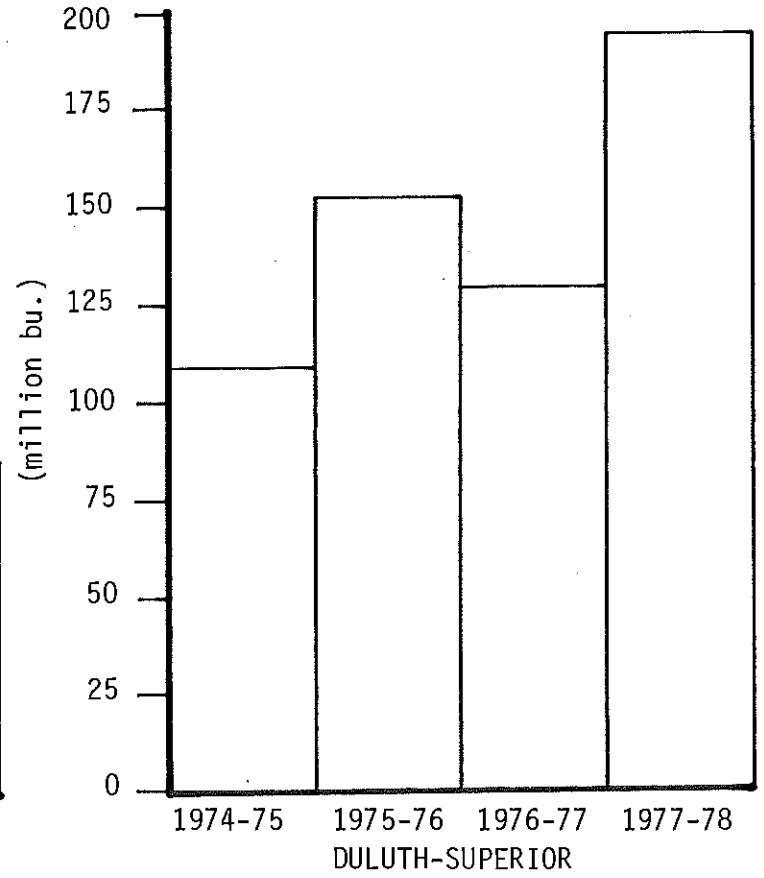
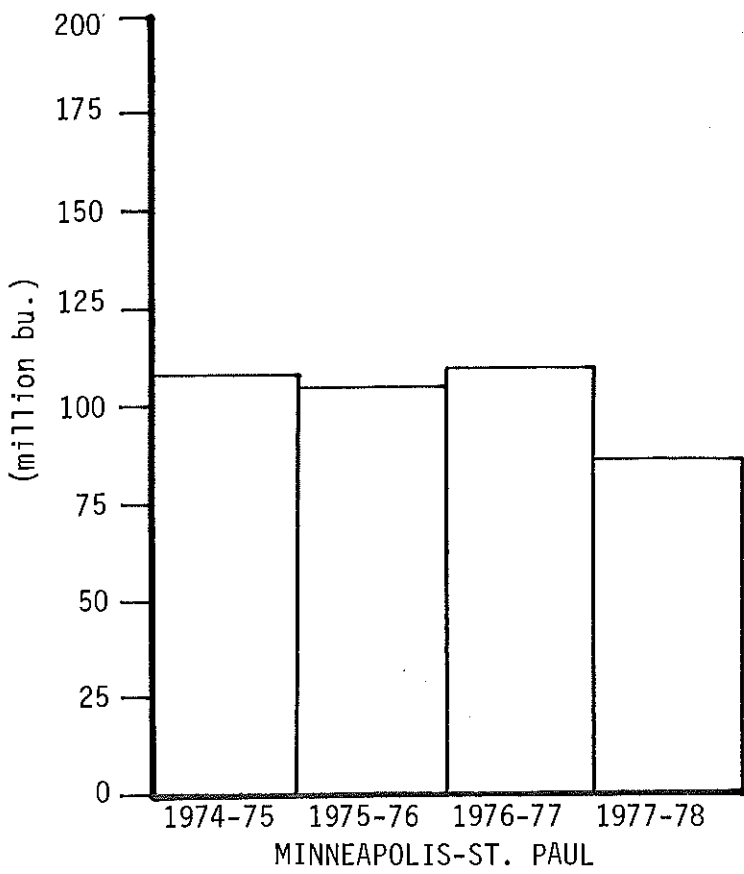
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
1969-70 to 1977-78



NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
BY DESTINATION

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

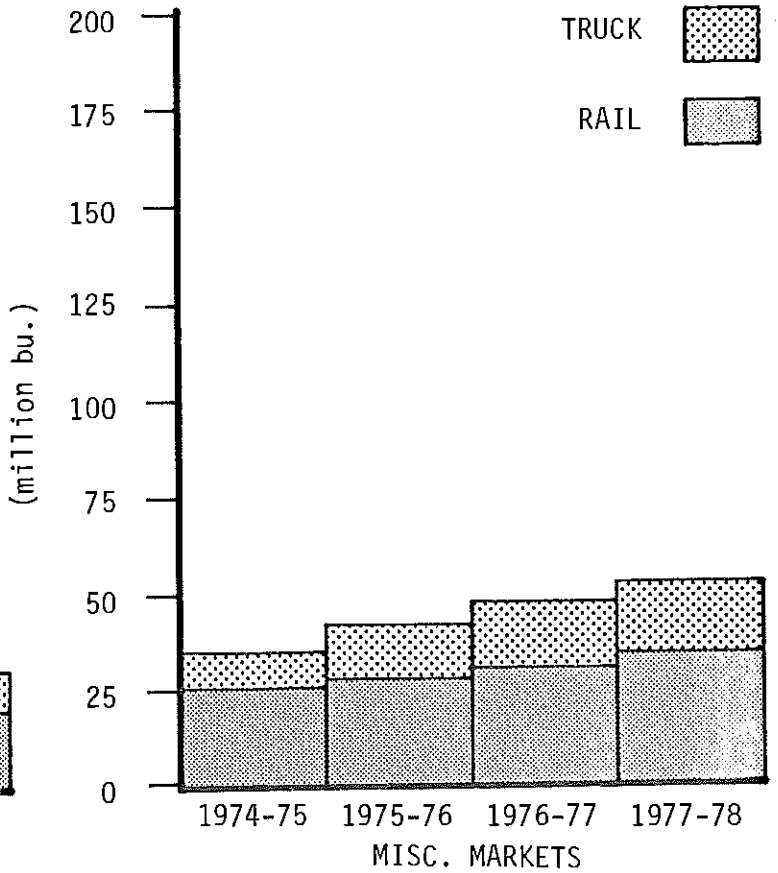
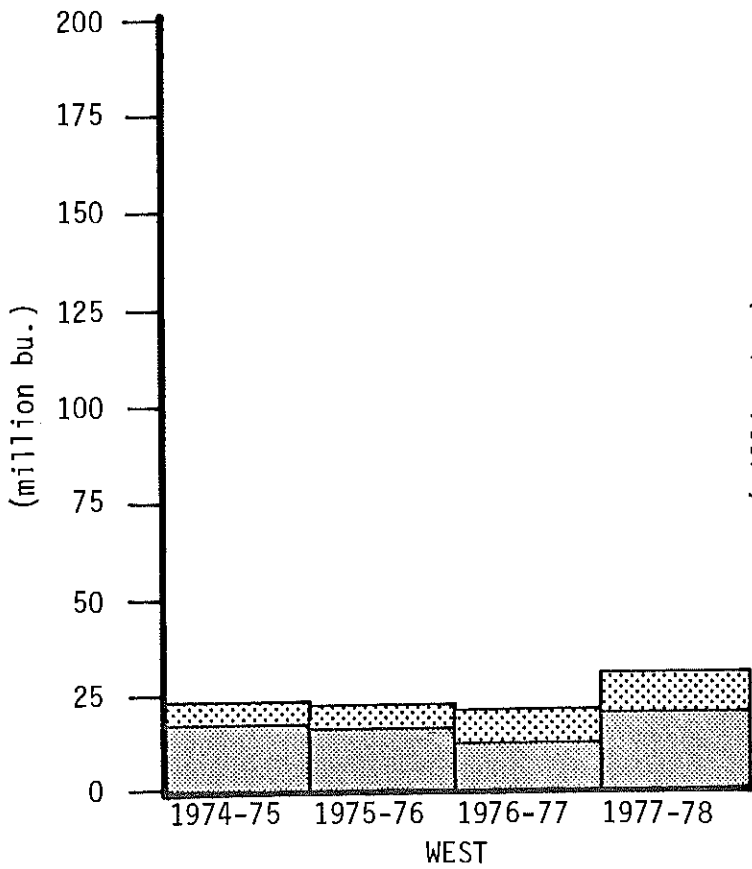
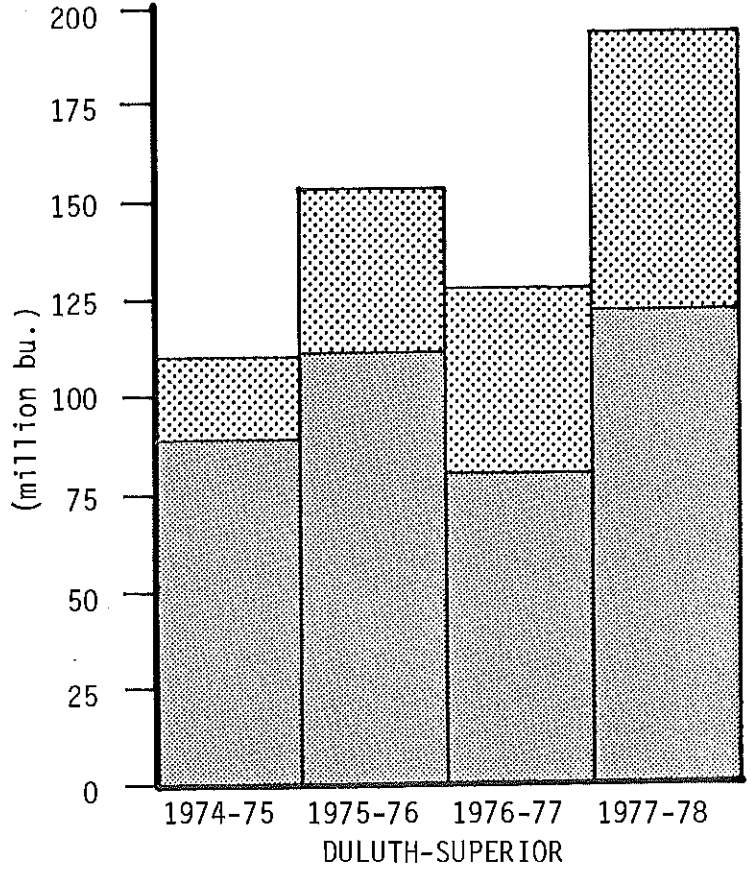
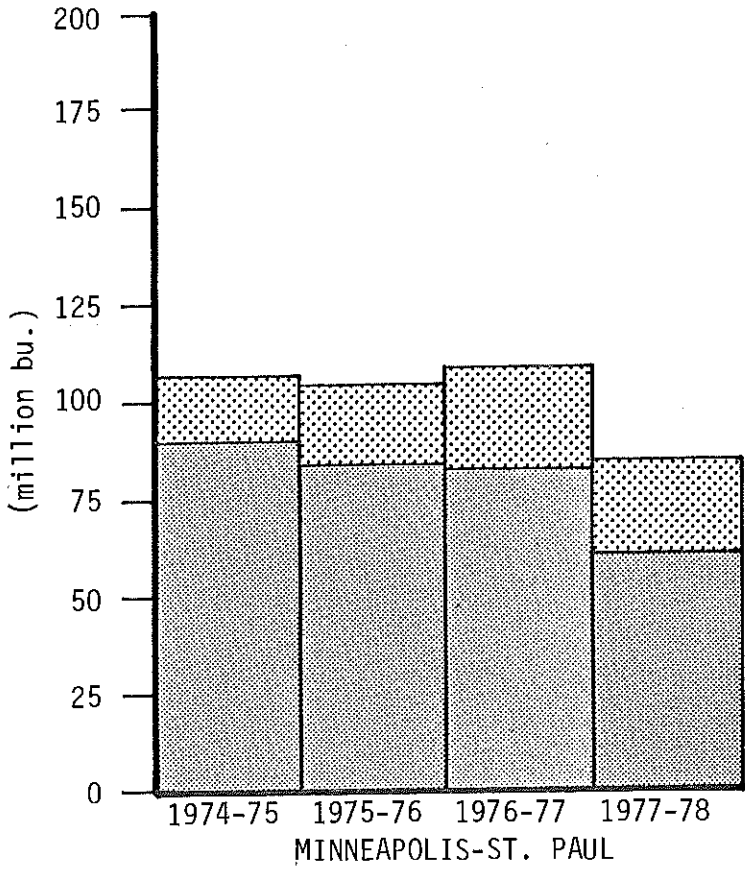
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY DESTINATION
1974-75 TO 1977-78



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

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
	(thousand bu.)							
MINN.-ST. PAUL	90,556 (84%)	17,537 (16%)	83,290 (79%)	21,610 (21%)	82,764 (76%)	26,856 (24%)	60,859 (71%)	24,372 (29%)
DULUTH-SUPERIOR	88,428 (81%)	21,157 (19%)	110,012 (72%)	42,502 (28%)	80,207 (63%)	47,837 (37%)	121,899 (63%)	71,025 (37%)
WEST	17,148 (72%)	6,679 (28%)	15,376 (70%)	6,654 (30%)	11,703 (56%)	9,120 (44%)	19,386 (67%)	9,645 (33%)
MISC. MARKETS	25,790 (76%)	8,192 (24%)	27,813 (68%)	13,027 (32%)	30,455 (64%)	16,970 (36%)	33,034 (64%)	18,384 (36%)
TOTAL	221,922 (81%)	53,565 (19%)	236,491 (74%)	83,793 (26%)	205,129 (67%)	100,783 (33%)	235,178 (66%)	123,426 (34%)

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

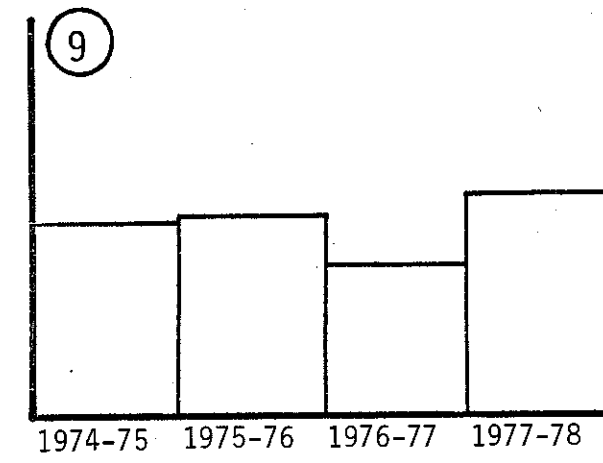
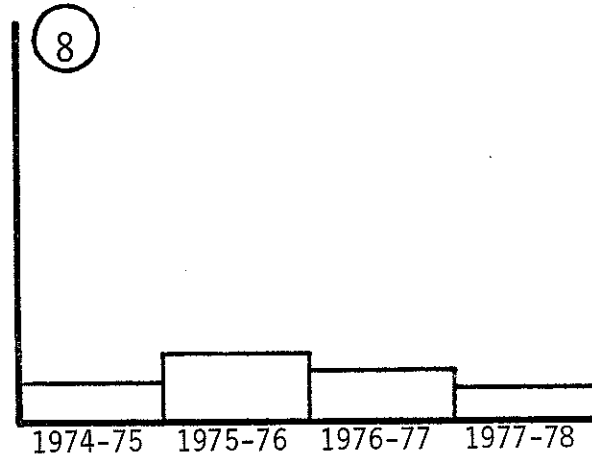
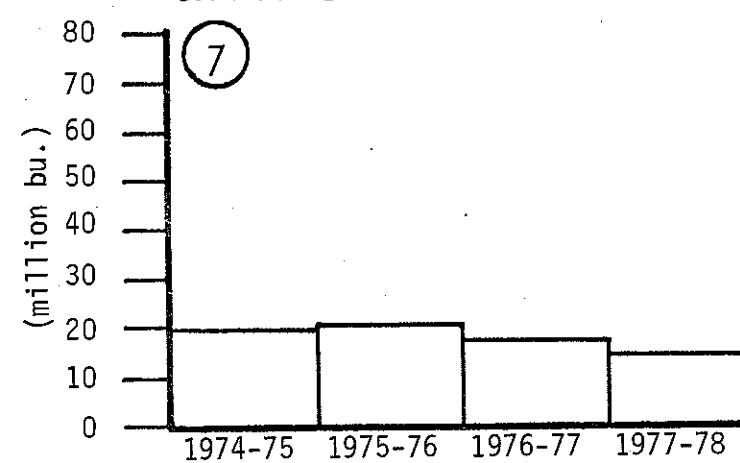
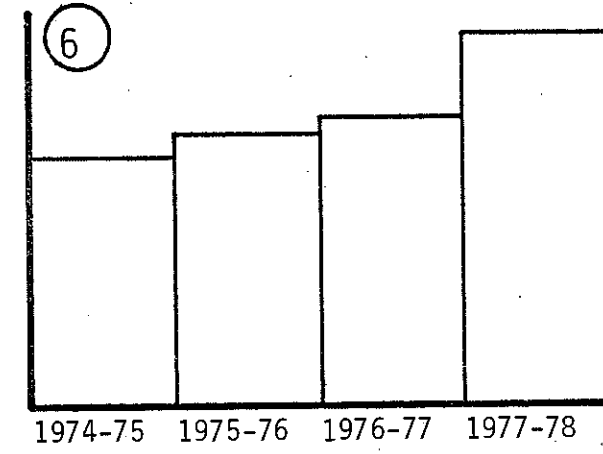
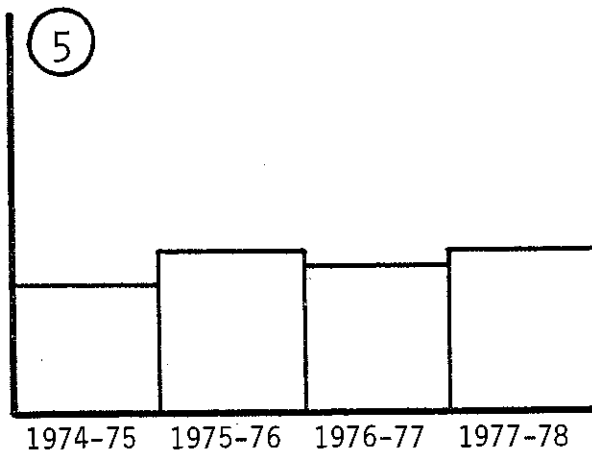
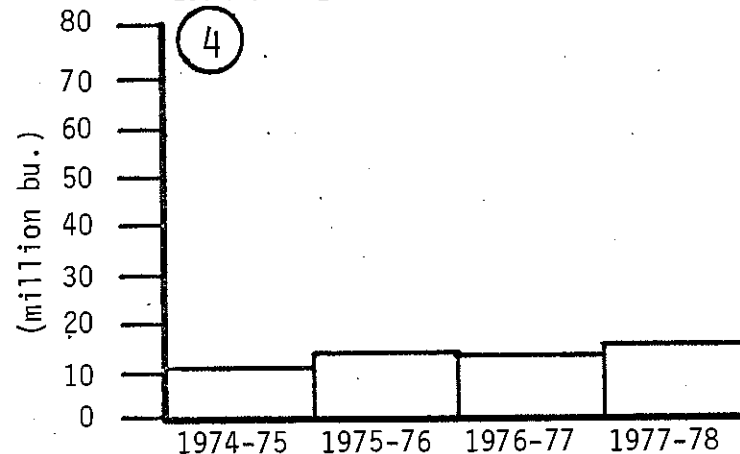
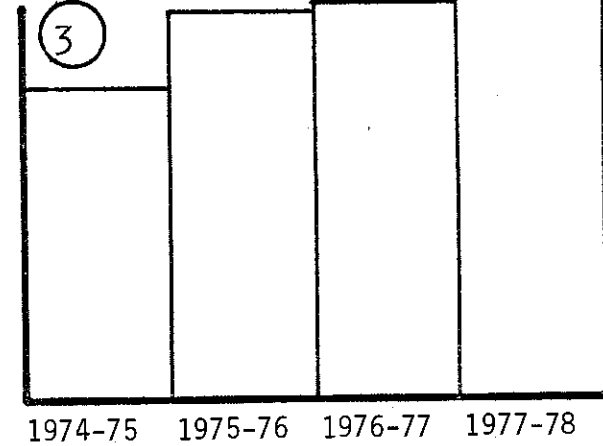
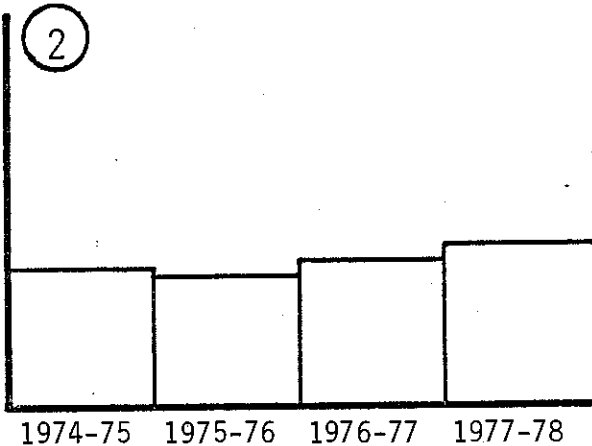
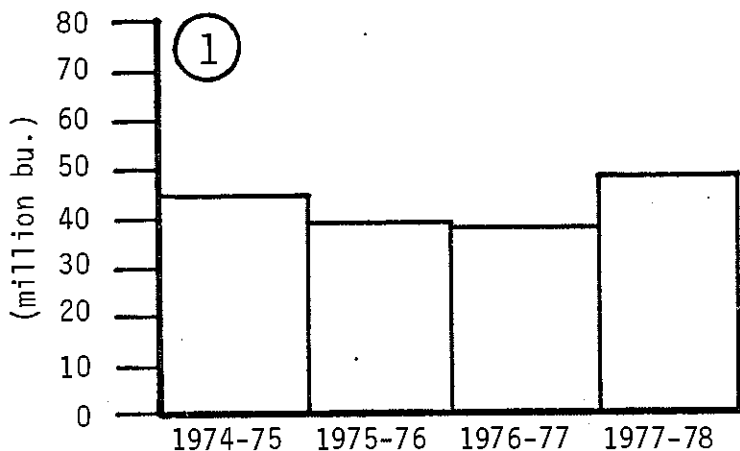


NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)^a

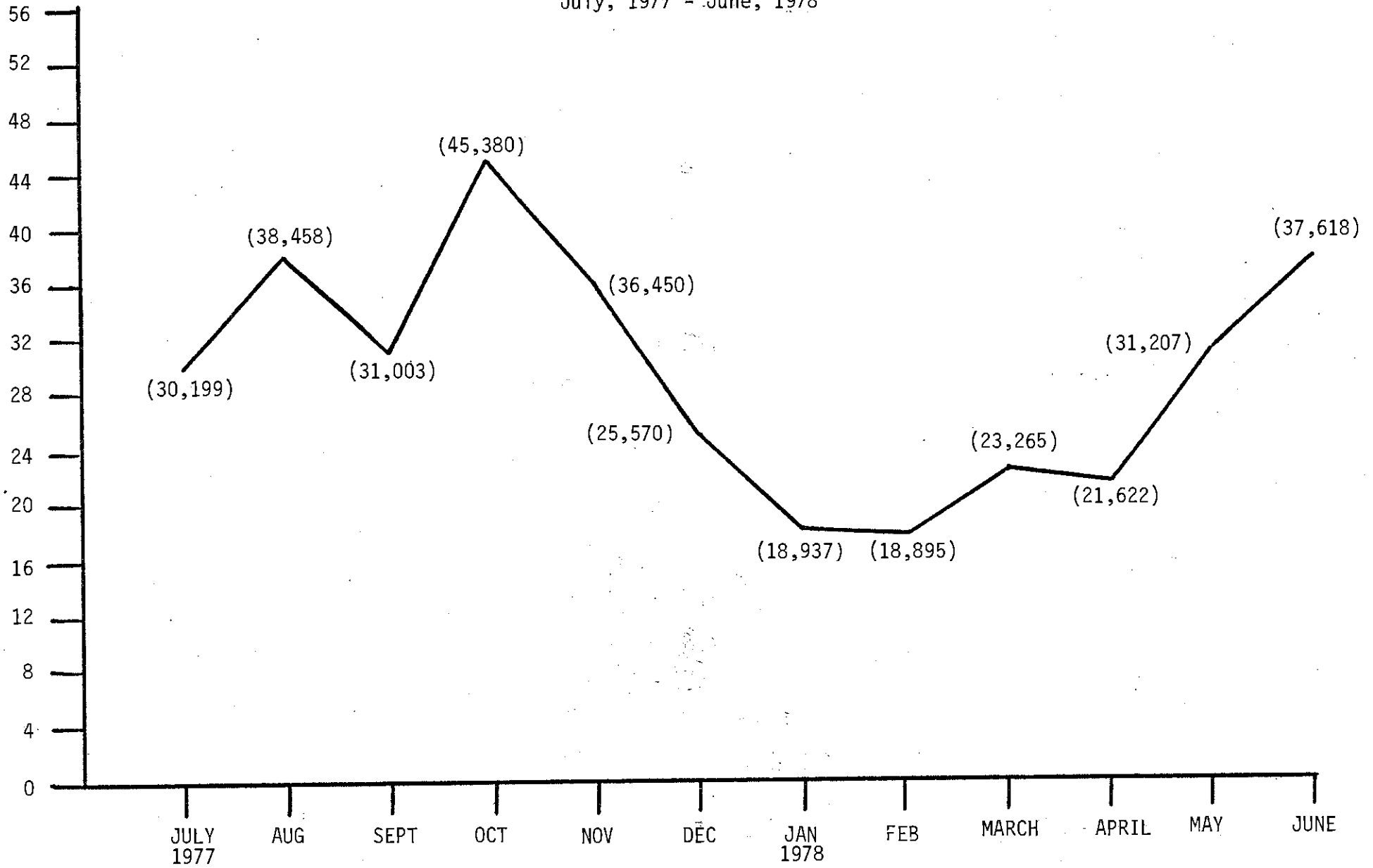
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78
	(thousand bu).			
1	44,971 (15%)	39,254 (12%)	38,628 (13%)	47,881 (13%)
2	28,141 (10%)	27,362 (9%)	29,421 (10%)	32,552 (9%)
3	65,398 (22%)	78,193 (24%)	80,085 (26%)	92,607 (26%)
4	10,852 (4%)	13,941 (4%)	13,315 (4%)	14,323 (4%)
5	25,997 (9%)	33,031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

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

NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICTS)



NORTH DAKOTA GRAIN AND OILSEED MOVEMENTS BY MONTH
July, 1977 - June, 1978

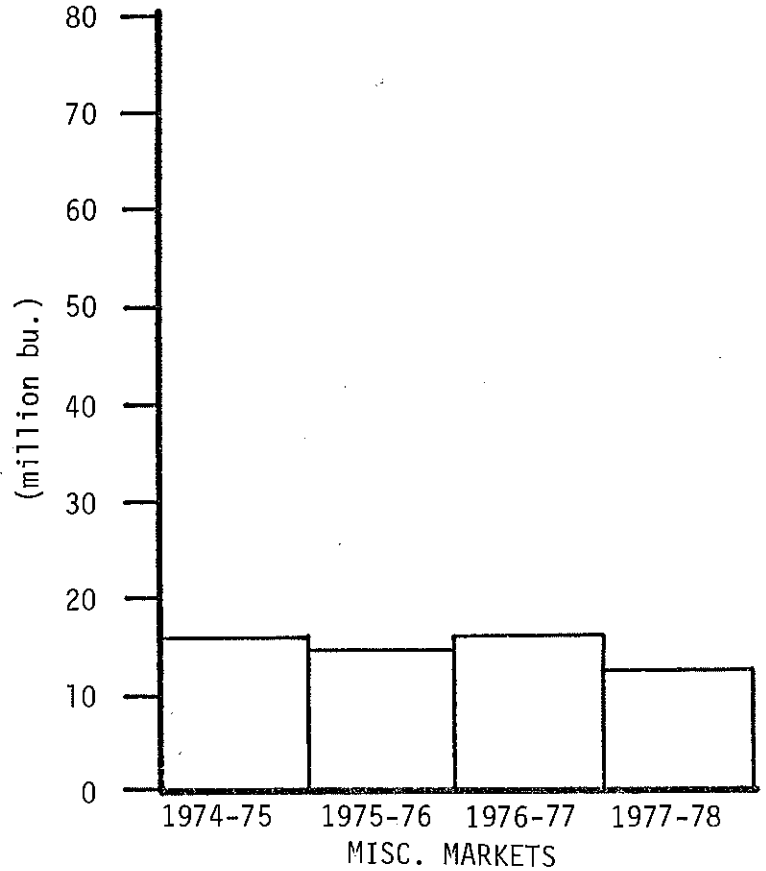
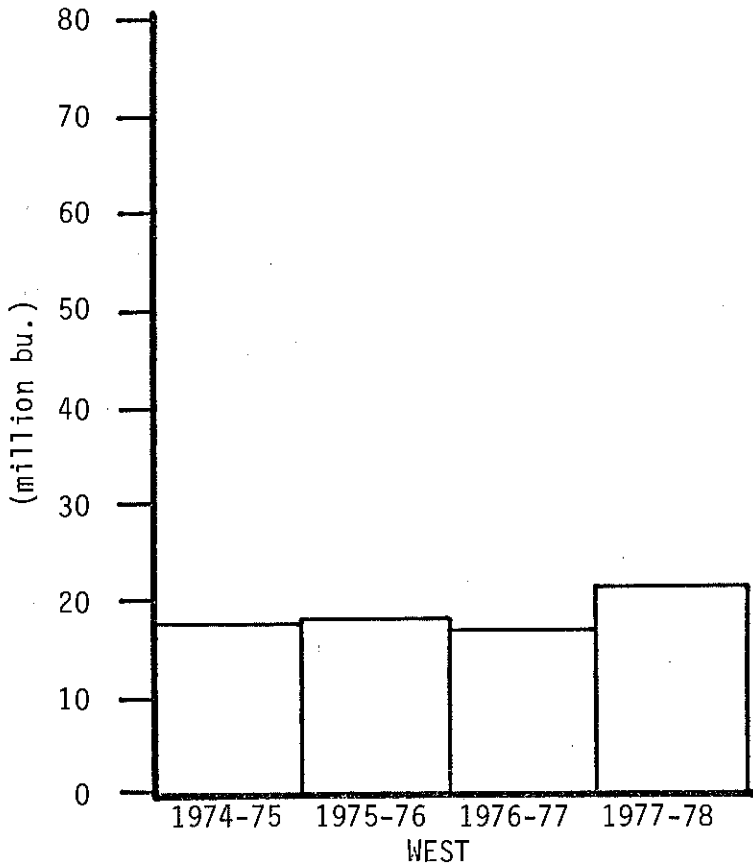
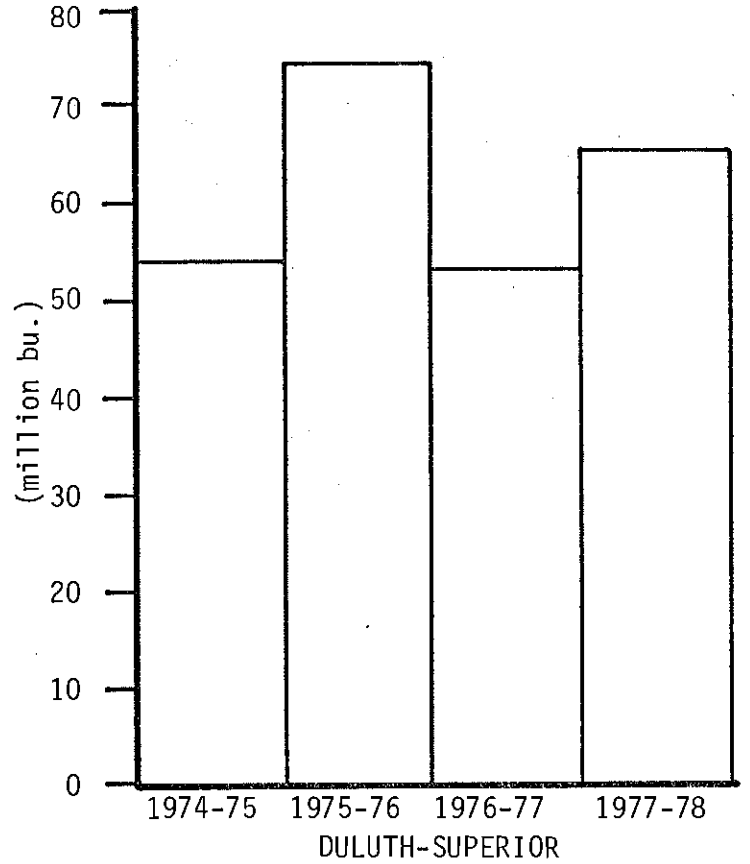
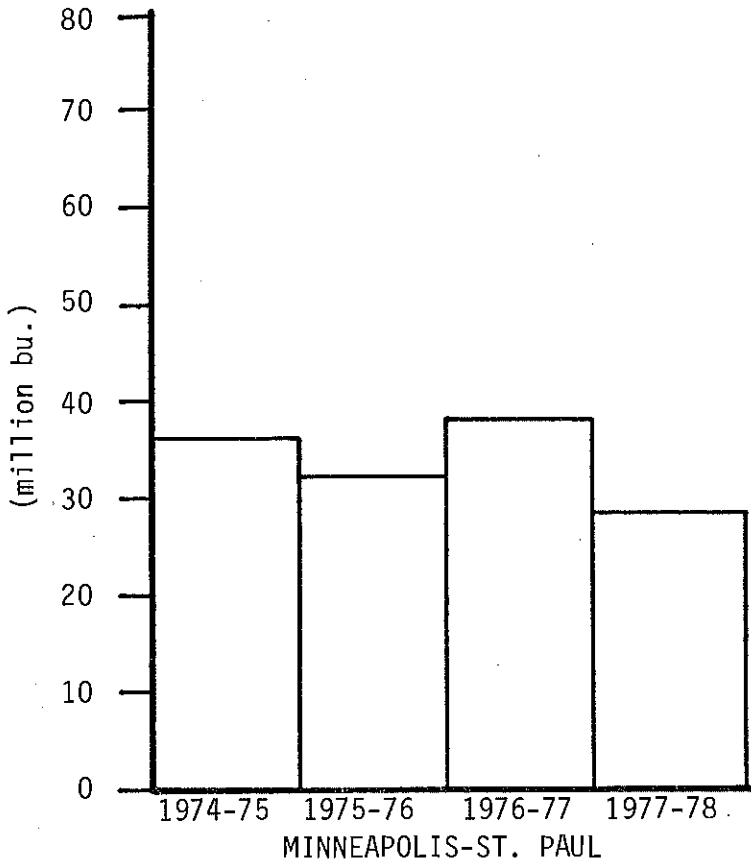


**HARD RED
SPRING WHEAT**

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY DESTINATION

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

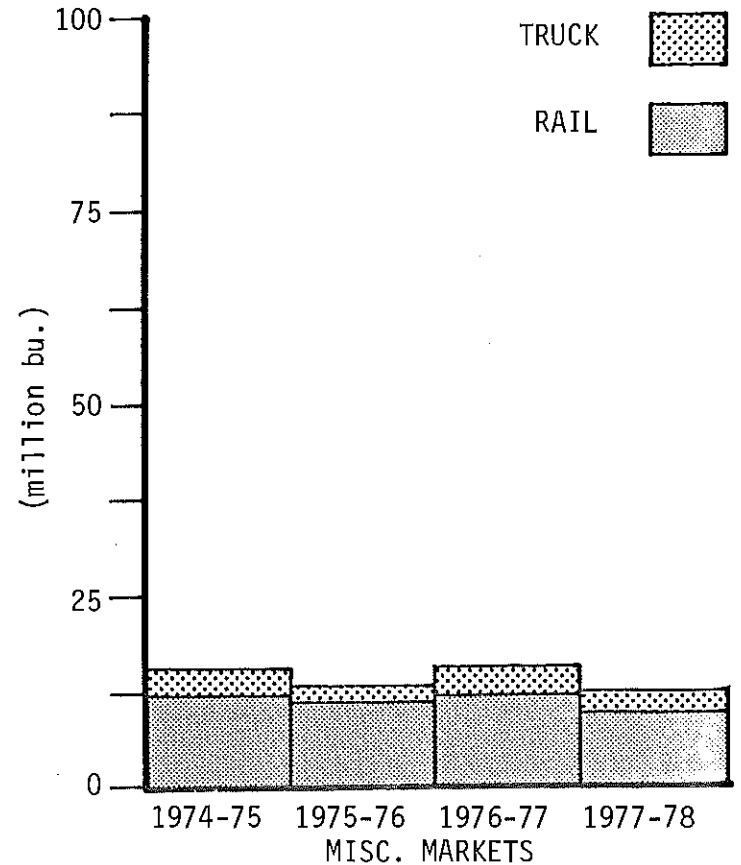
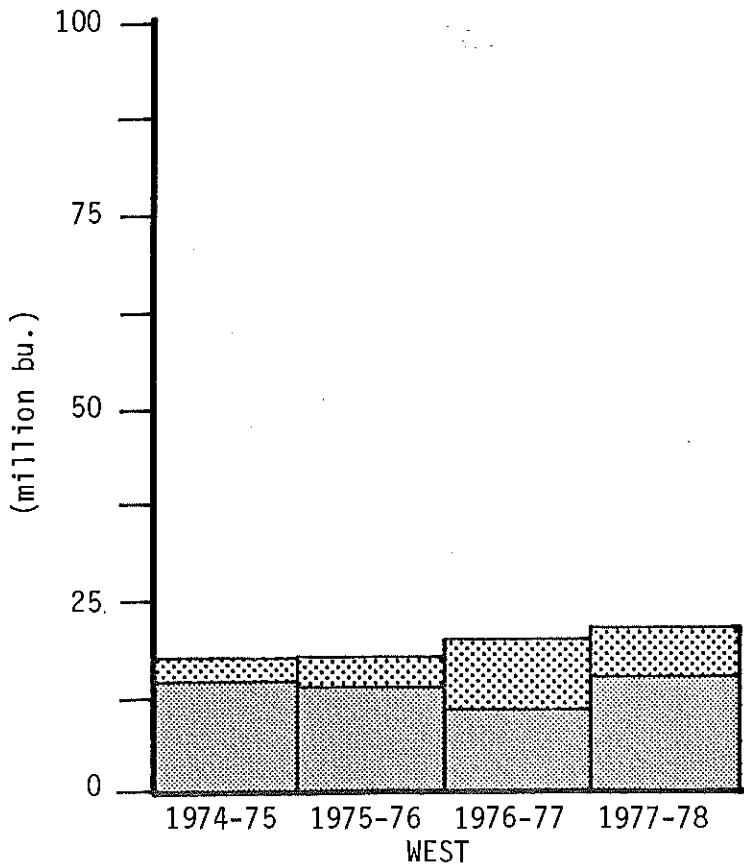
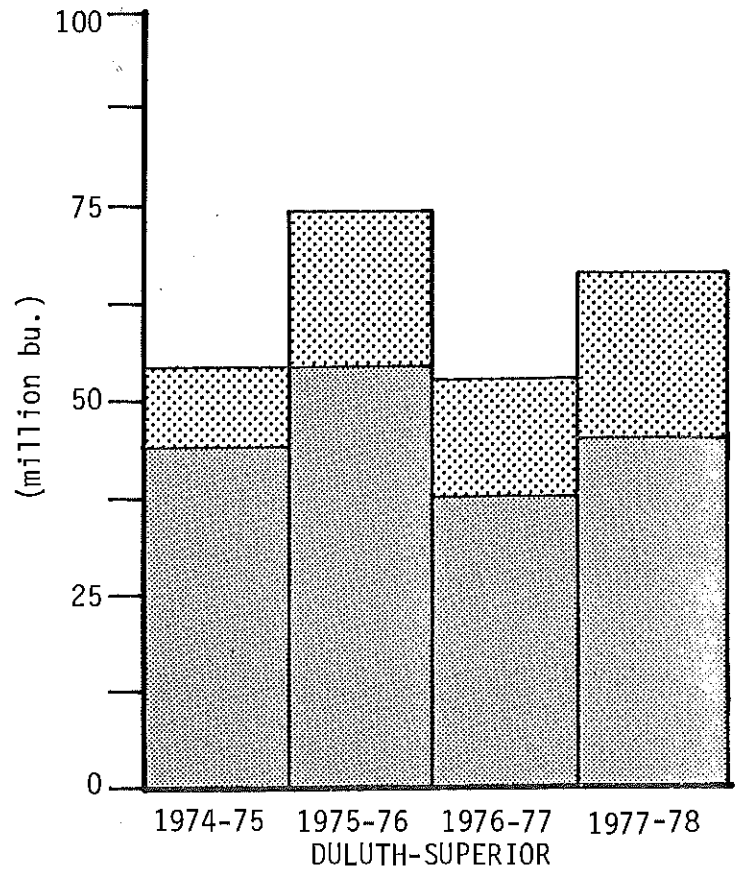
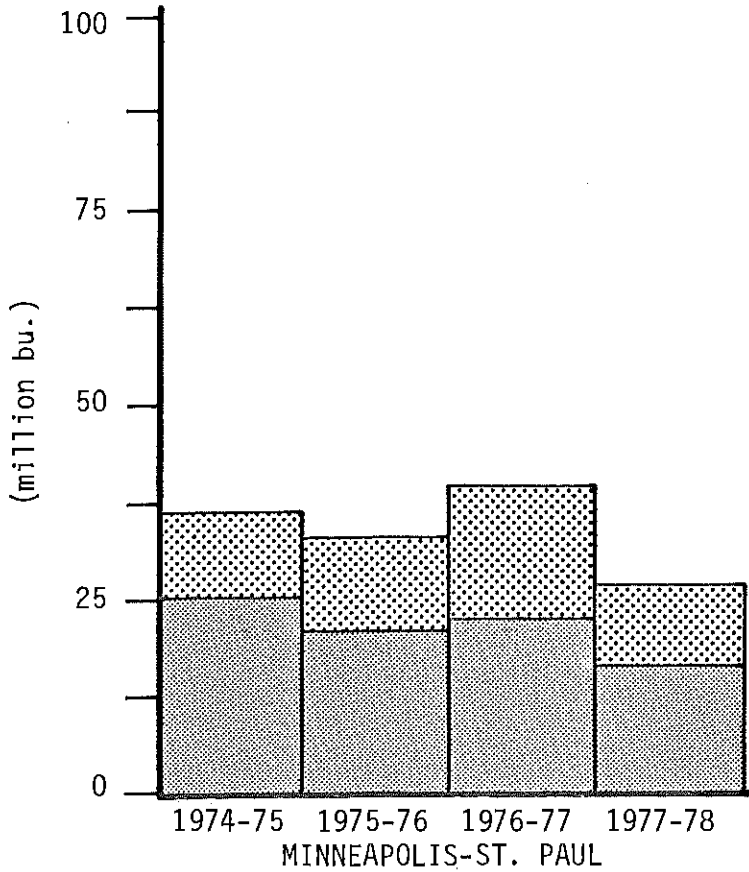
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY DESTINATION





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

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	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%)	16,211 (57%)	11,988 (43%)
DULUTH - SUPERIOR	44,216 (81%)	10,203 (19%)	54,310 (73%)	20,157 (27%)	37,140 (70%)	16,280 (30%)	46,283 (70%)	19,548 (30%)
WEST	15,566 (88%)	2,147 (12%)	14,261 (80%)	3,527 (20%)	10,629 (64%)	6,047 (36%)	14,630 (68%)	6,873 (32%)
MISC. MARKETS	12,184 (80%)	3,132 (20%)	11,421 (80%)	2,832 (20%)	12,249 (78%)	3,402 (22%)	9,385 (76%)	3,035 (24%)
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%)

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

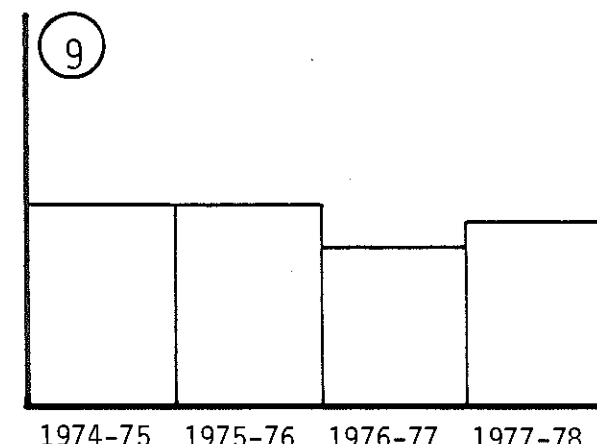
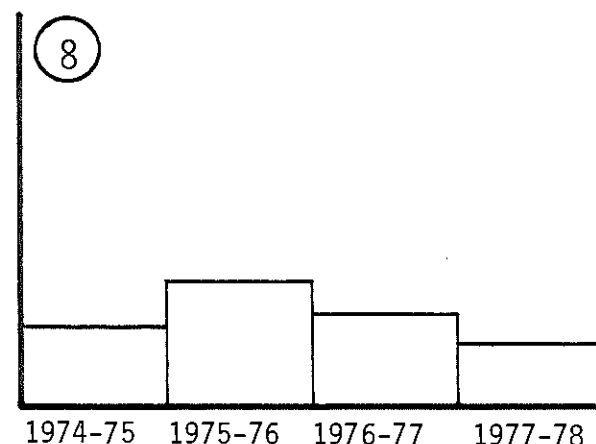
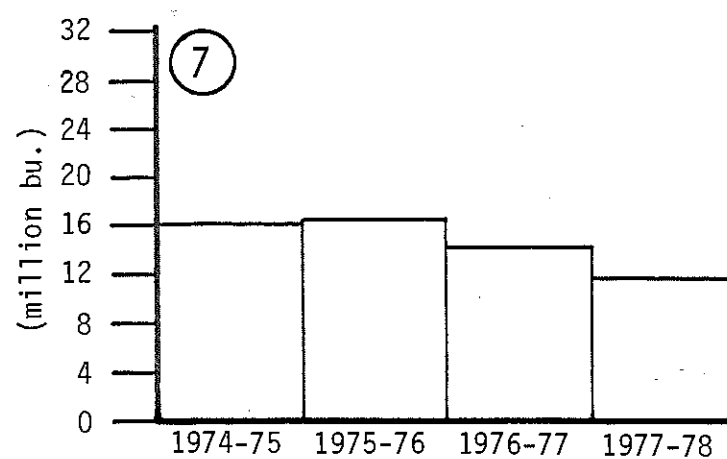
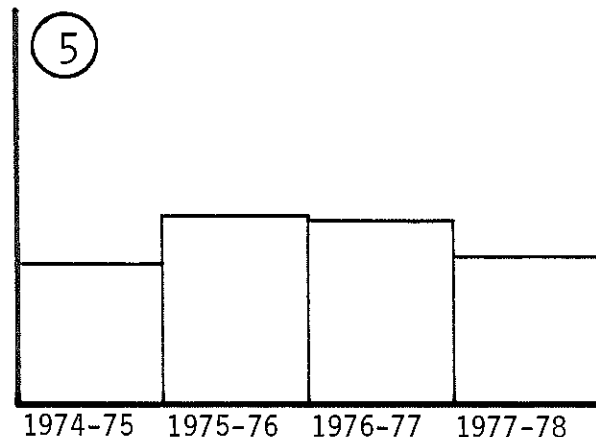
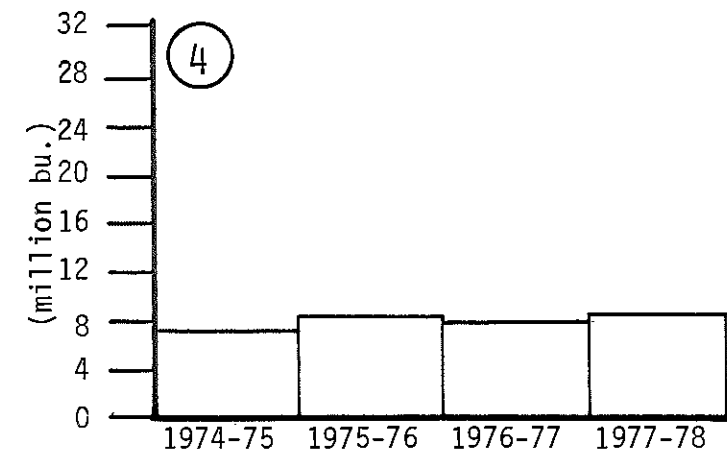
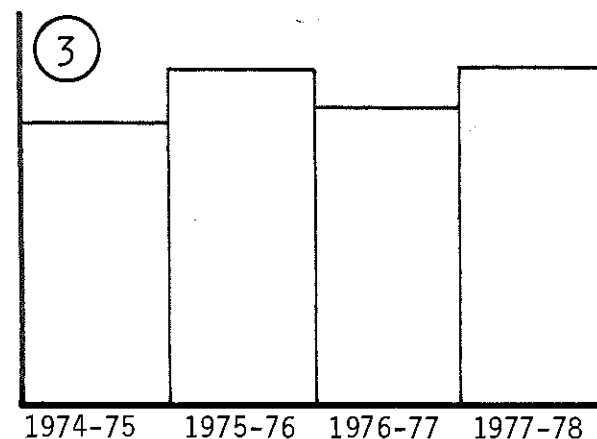
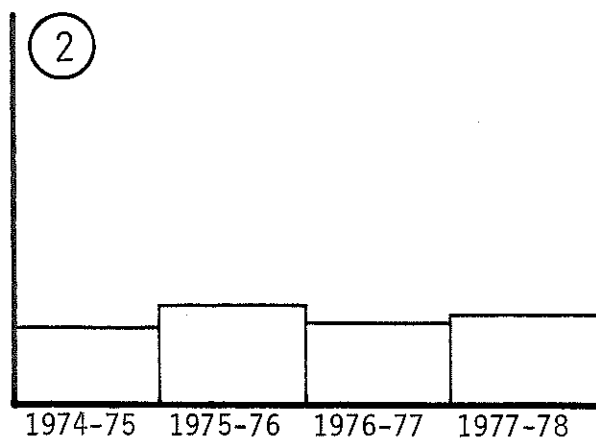
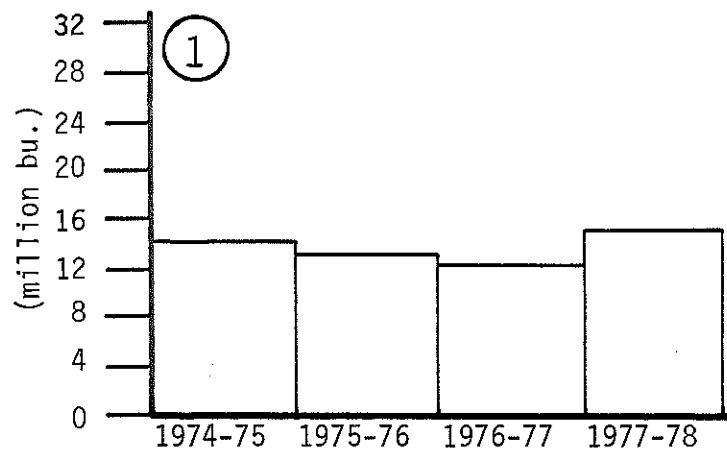


TRUCK 
RAIL 

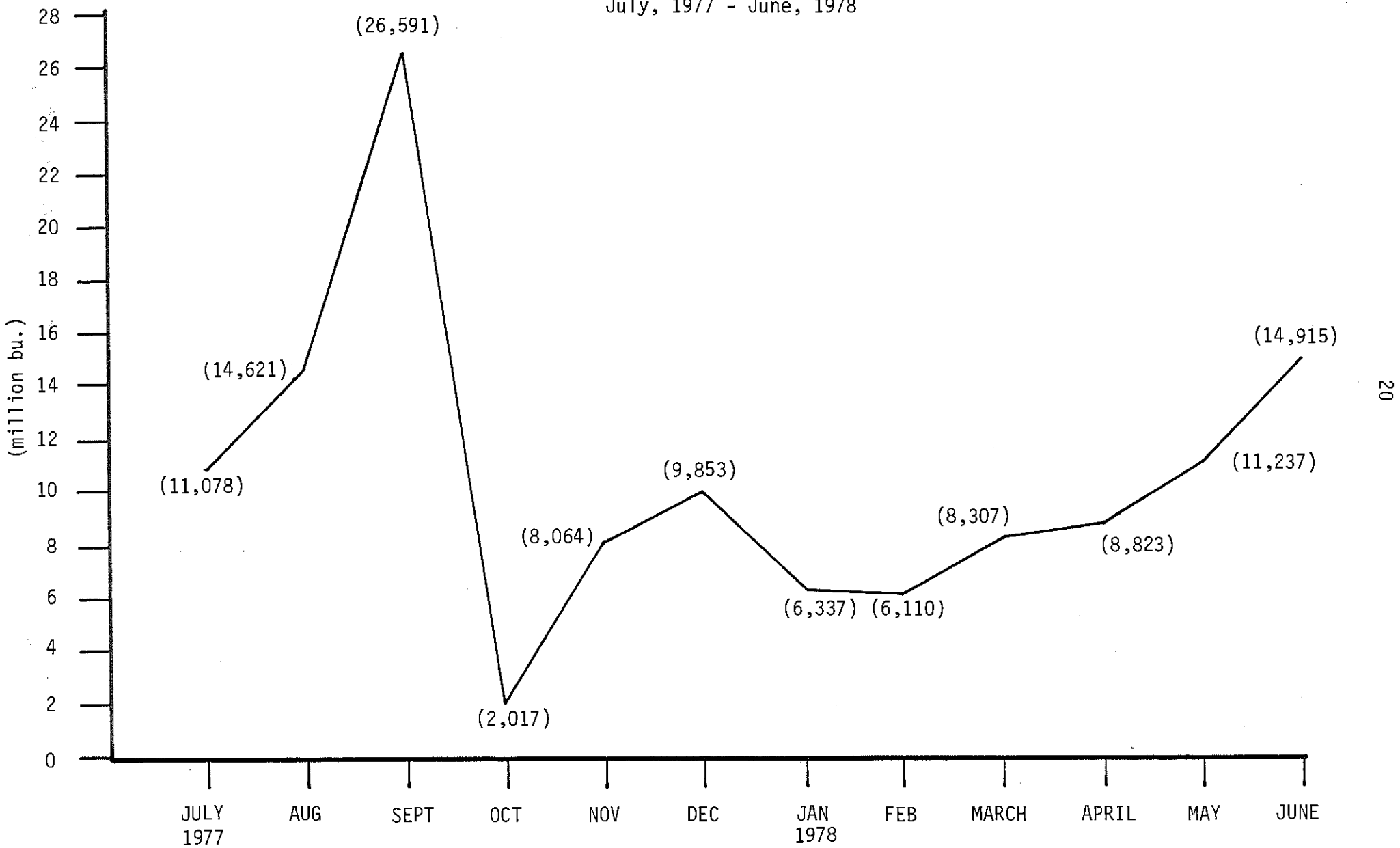
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78
	(thousand bu.)			
1	14,472	13,179	12,657	15,009
2	6,279	7,872	6,807	7,370
3	22,893	27,698	24,053	27,331
4	6,955	8,821	8,209	8,477
5	11,473	15,695	15,253	12,521
6	21,393	22,962	22,000	25,013
7	16,138	16,422	14,182	11,563
8	6,609	9,993	7,782	5,567
9	16,720	16,720	13,033	15,103
TOTAL	122,932	139,362	123,976	127,954

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



NORTH DAKOTA HARD RED SPRING WHEAT MOVEMENTS BY MONTH
July, 1977 - June, 1978

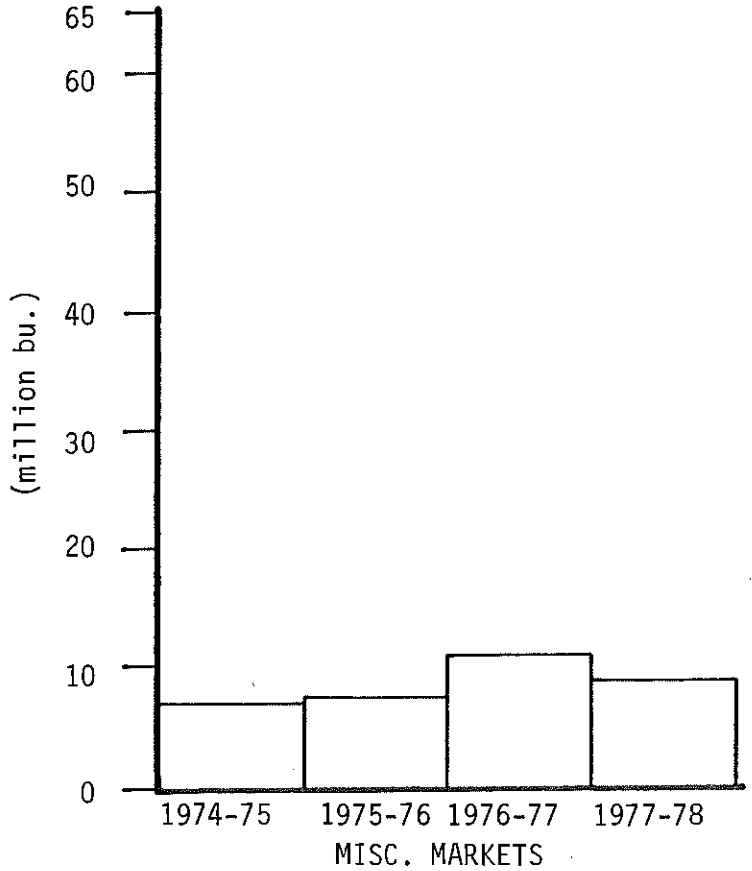
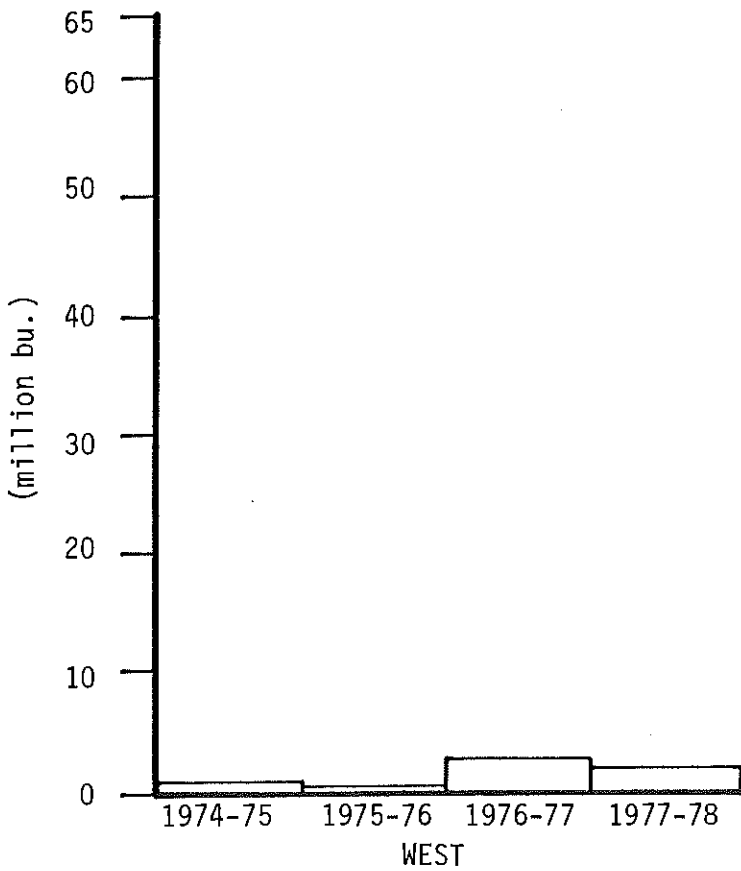
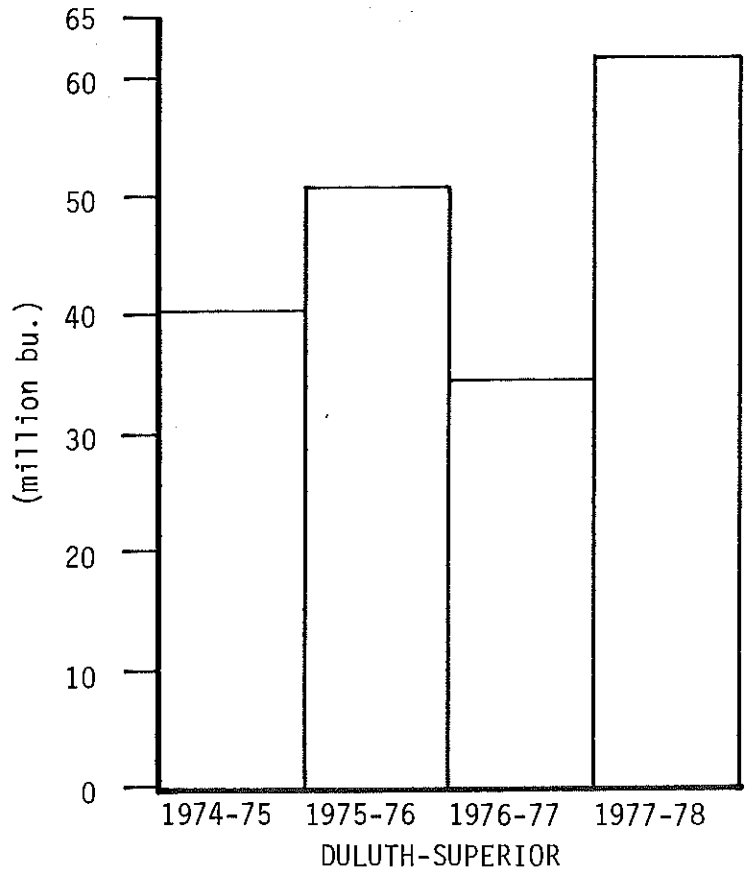
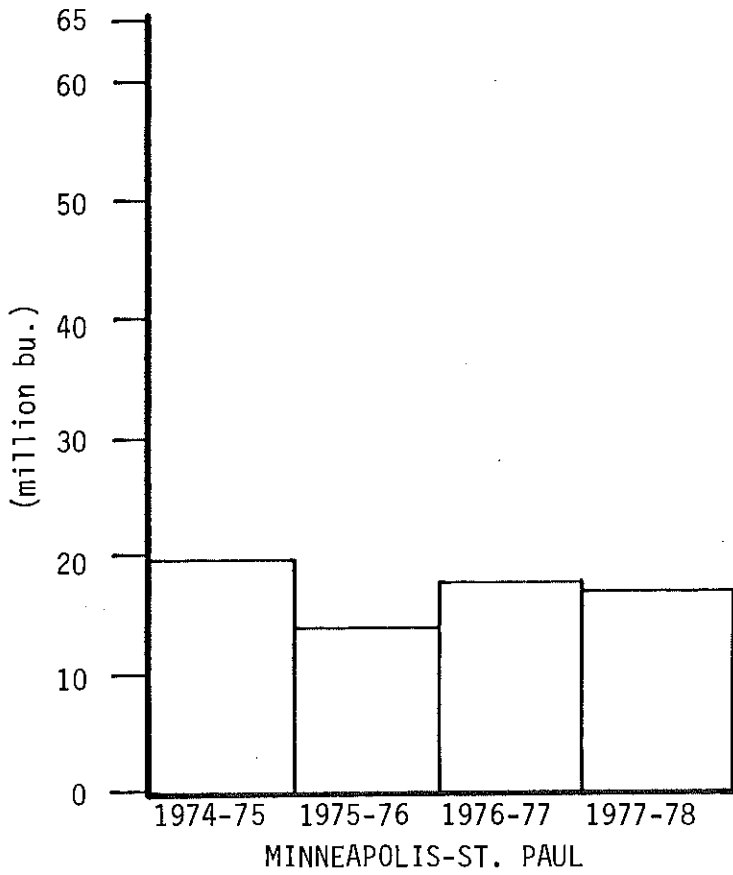


**DURUM WHEAT
MOVEMENTS**

NORTH DAKOTA DURUM SHIPMENTS
BY DESTINATION

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

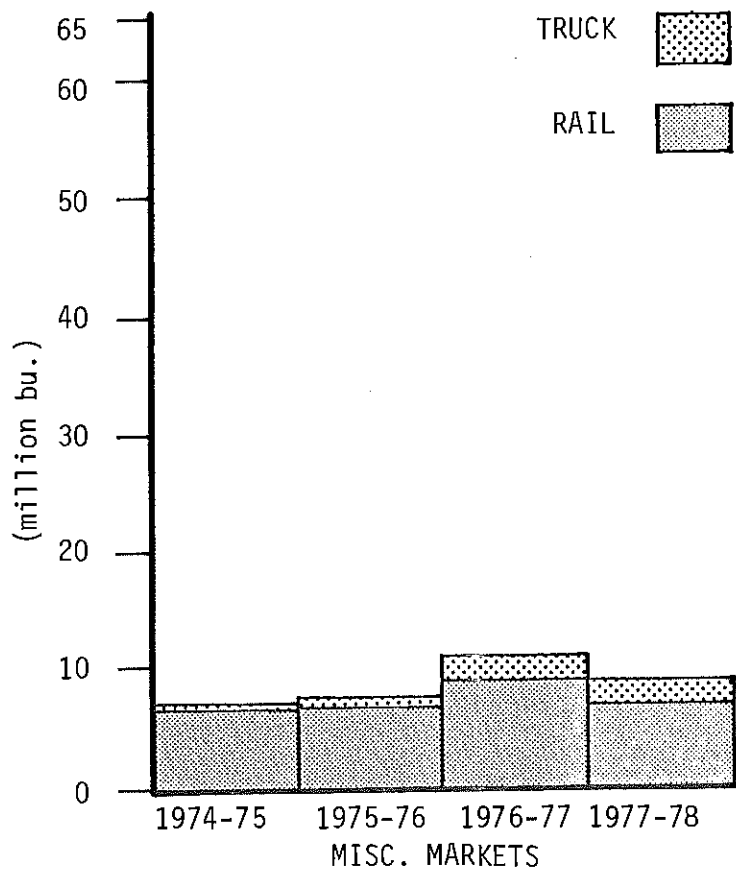
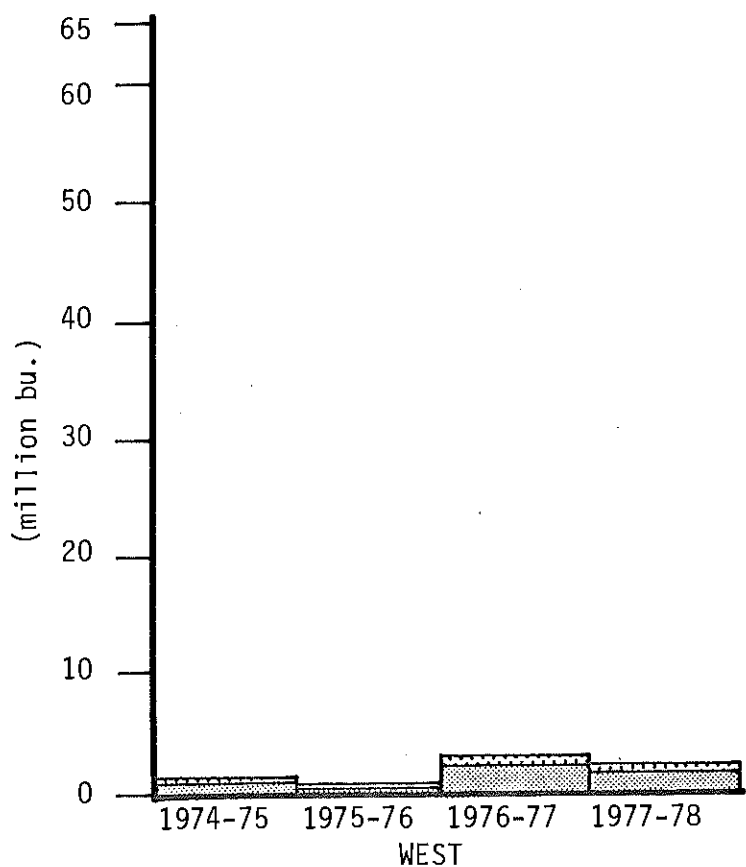
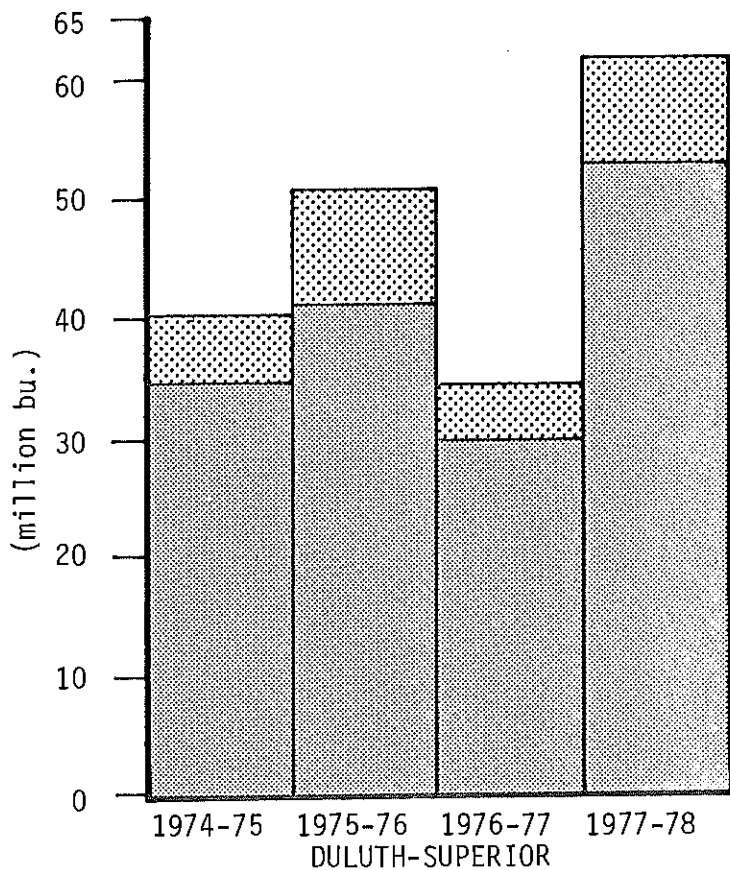
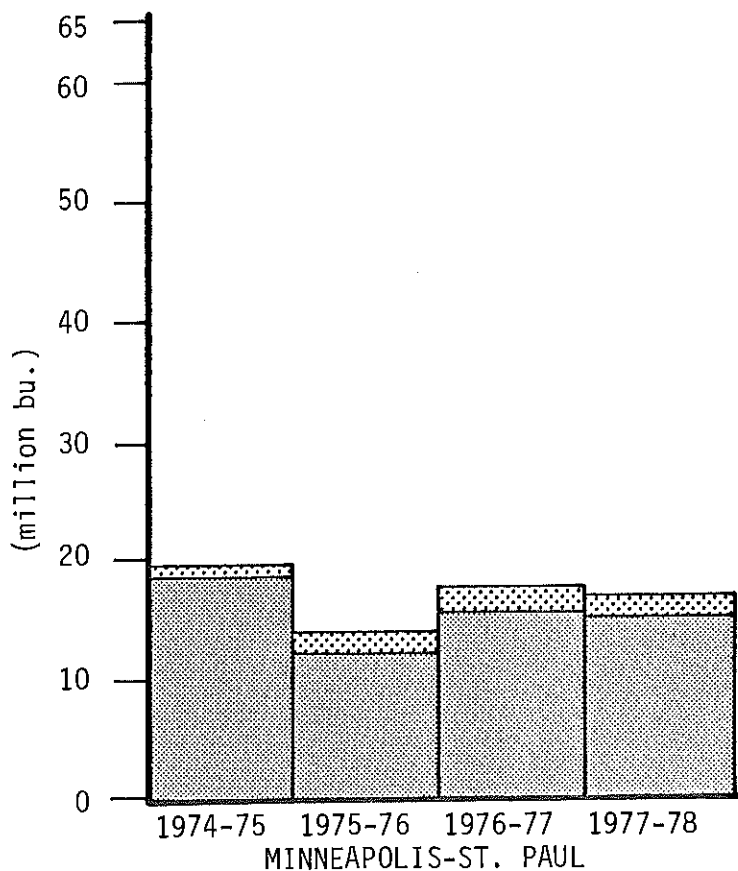
NORTH DAKOTA DURUM SHIPMENTS BY DESTINATION



NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	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%)	14,576 (88%)	1,902 (12%)
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%)
WEST	608 (72%)	239 (28%)	263 (61%)	171 (39%)	481 (29%)	1,155 (71%)	871 (65%)	468 (35%)
MISC. MARKETS	7,505 (97%)	246 (3%)	7,184 (91%)	741 (9%)	9,681 (89%)	1,147 (11%)	7,419 (87%)	1,139 (13%)
TOTAL	62,372 (91%)	6,408 (9%)	62,857 (84%)	11,960 (16%)	54,573 (84%)	10,452 (16%)	75,418 (85%)	12,947 (15%)

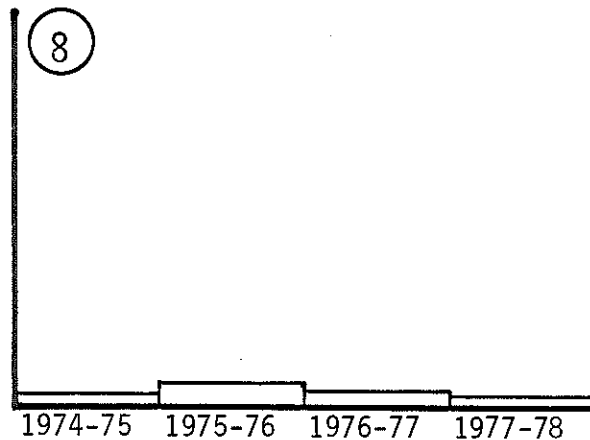
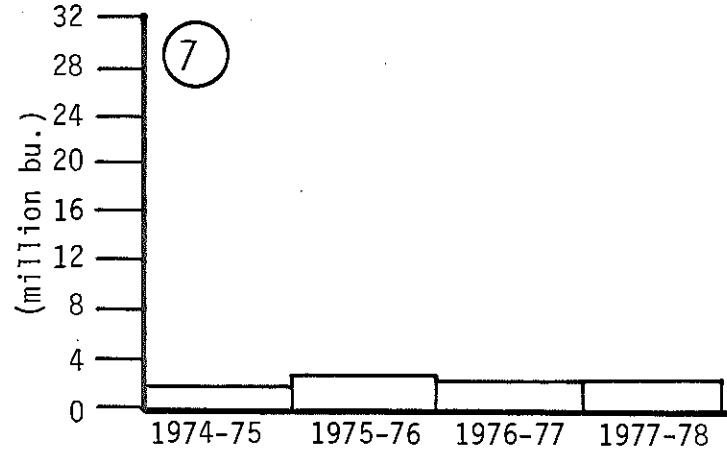
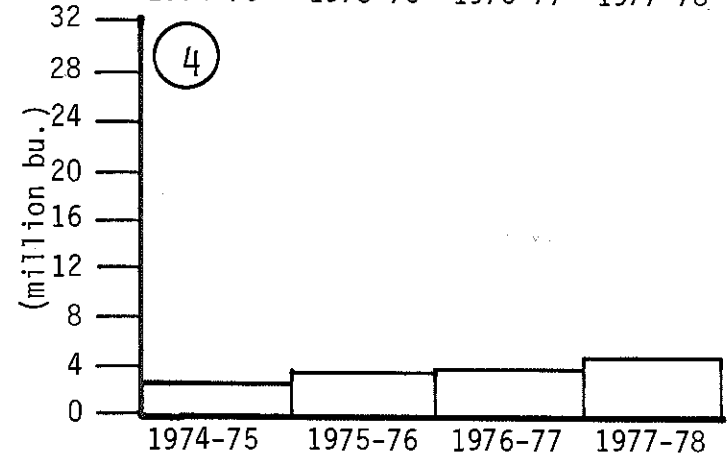
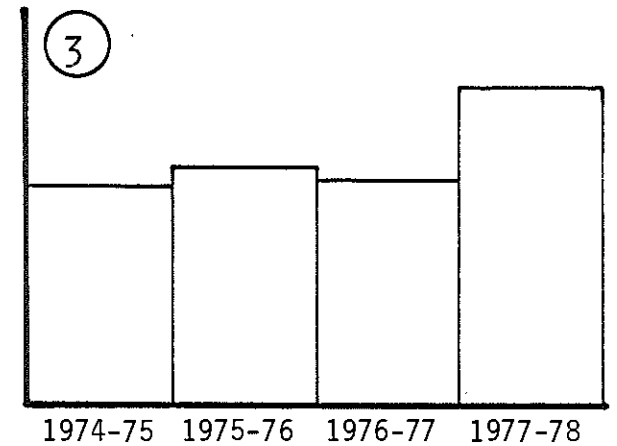
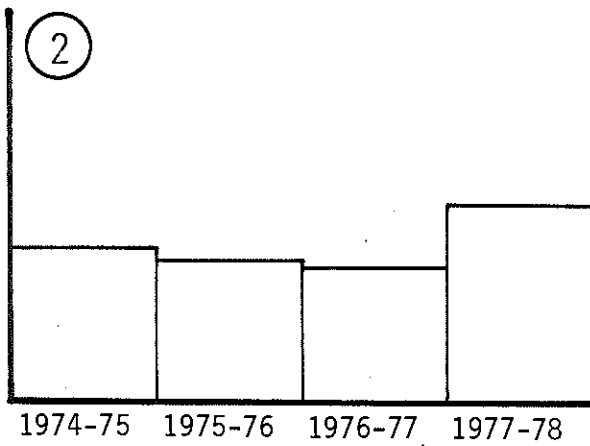
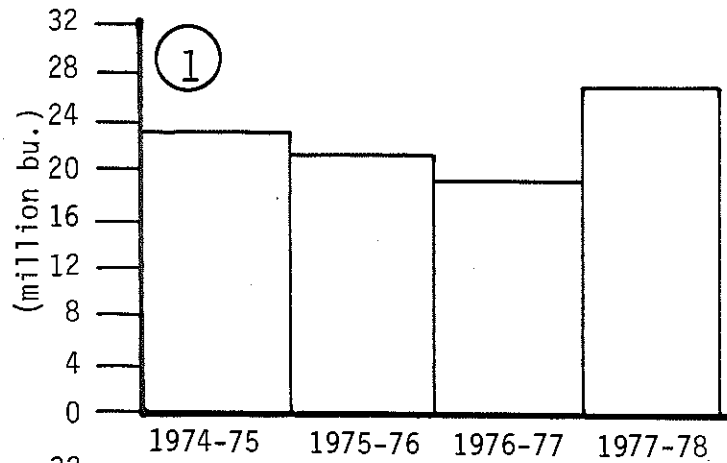
NORTH DAKOTA DURUM SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION



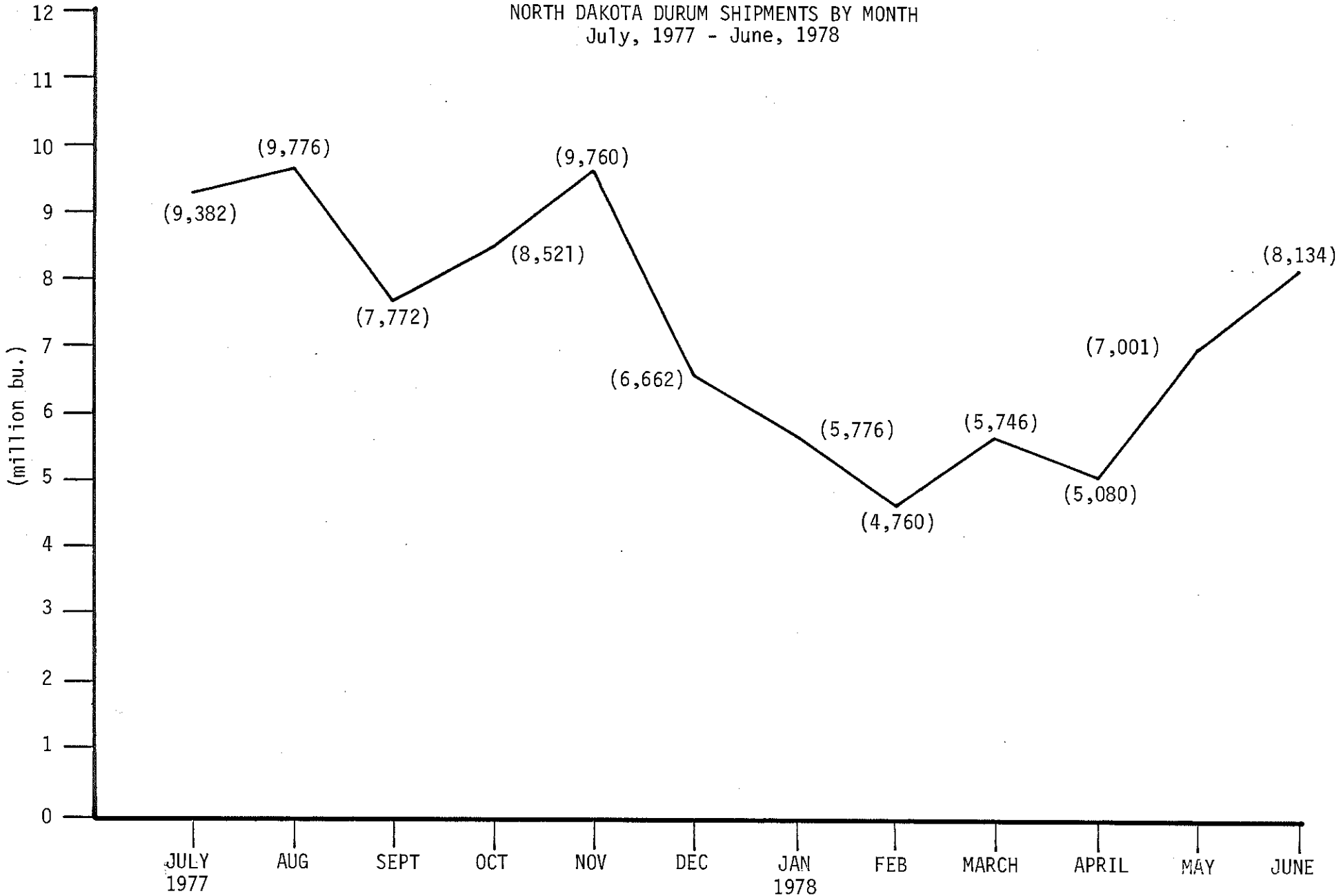
NORTH DAKOTA DURUM SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

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

NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA DURUM SHIPMENTS BY MONTH
July, 1977 - June, 1978

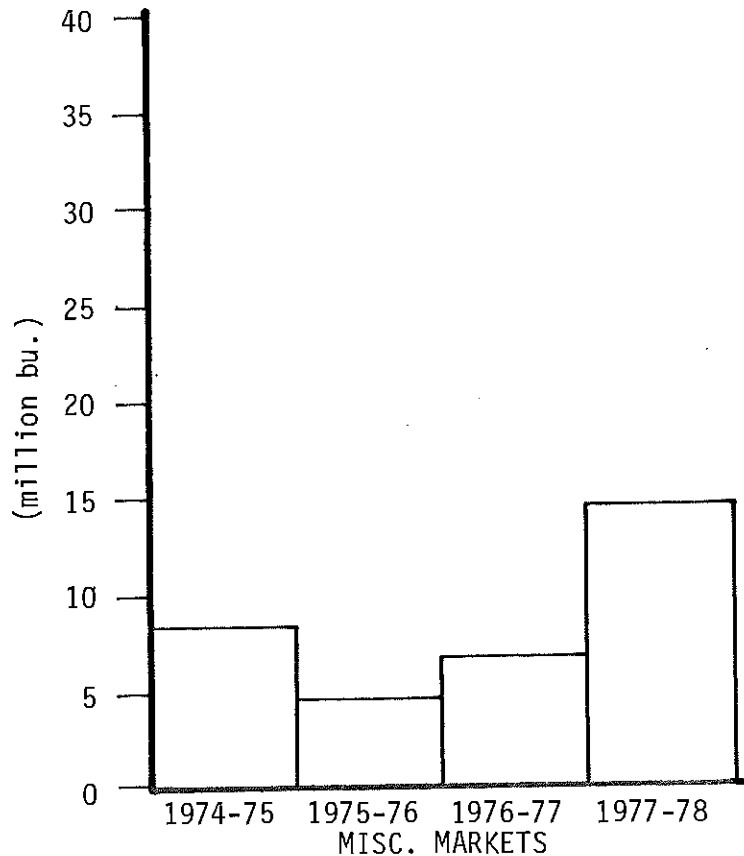
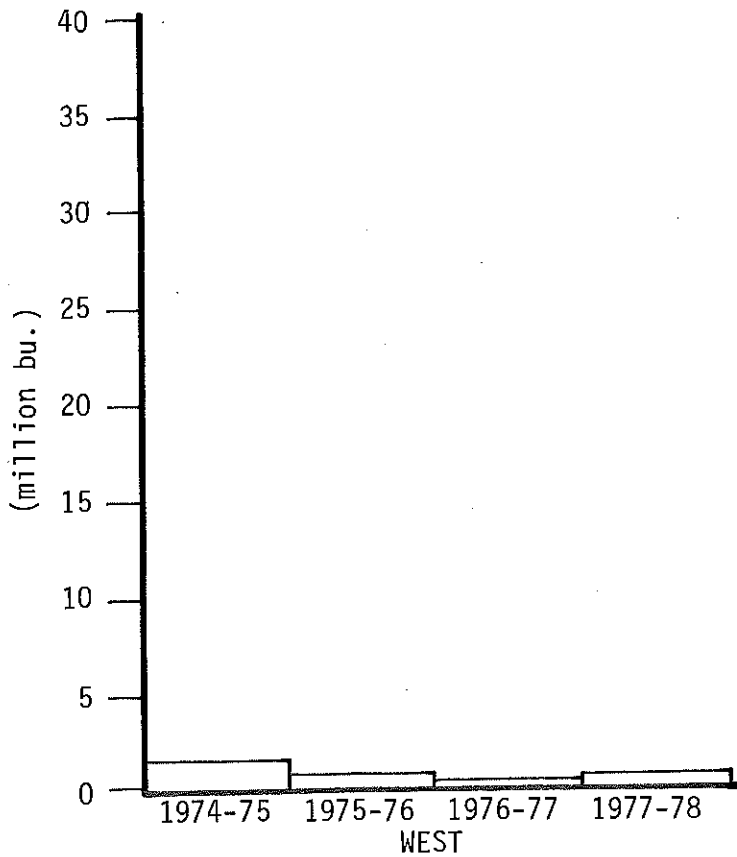
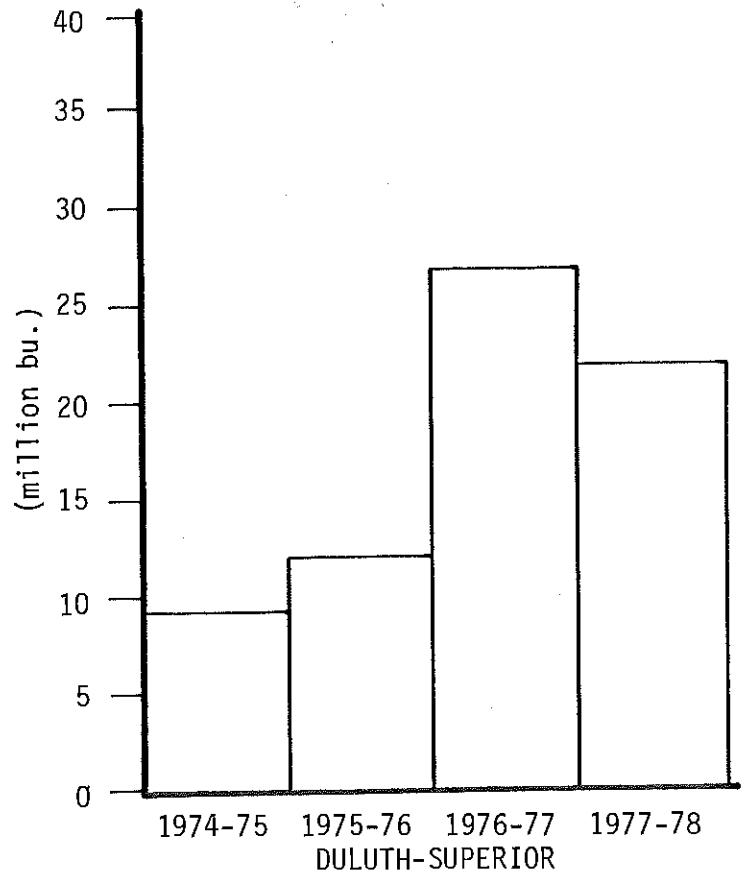
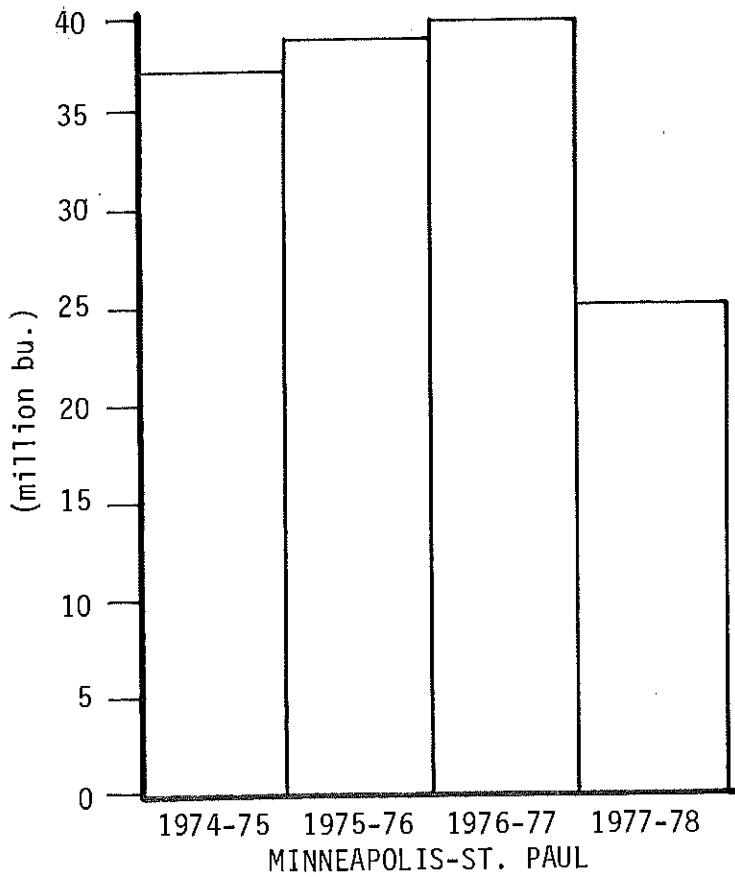


**BARLEY
MOVEMENTS**

NORTH DAKOTA BARLEY SHIPMENTS
BY DESTINATION

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

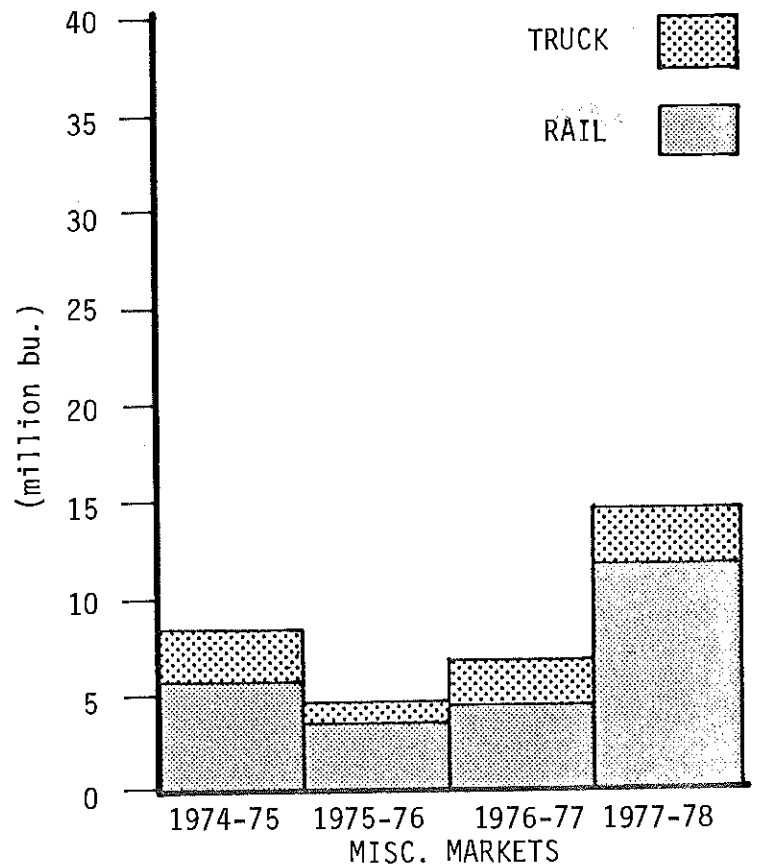
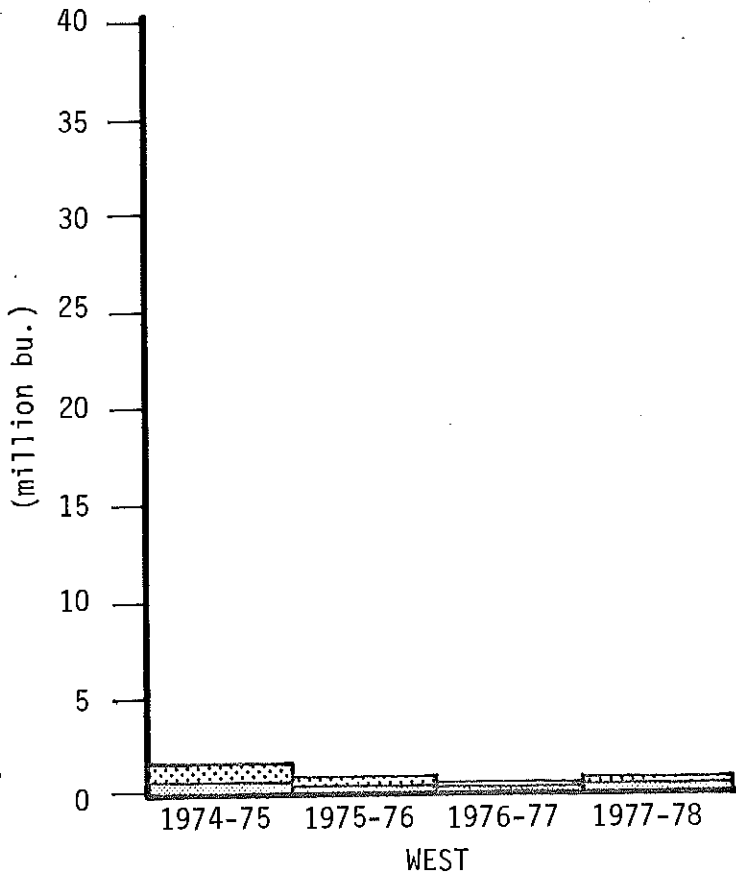
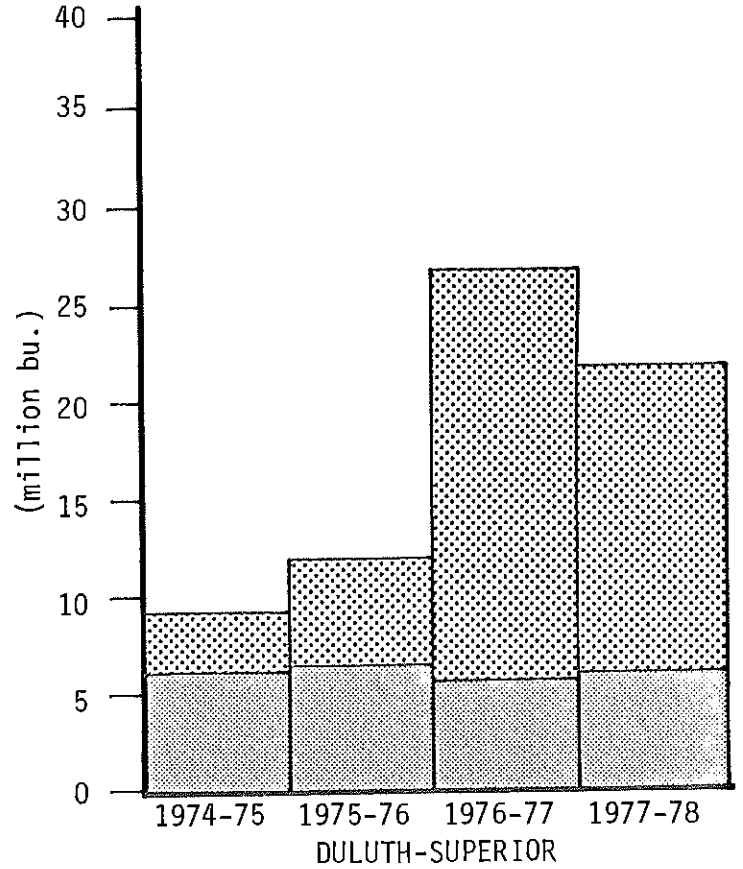
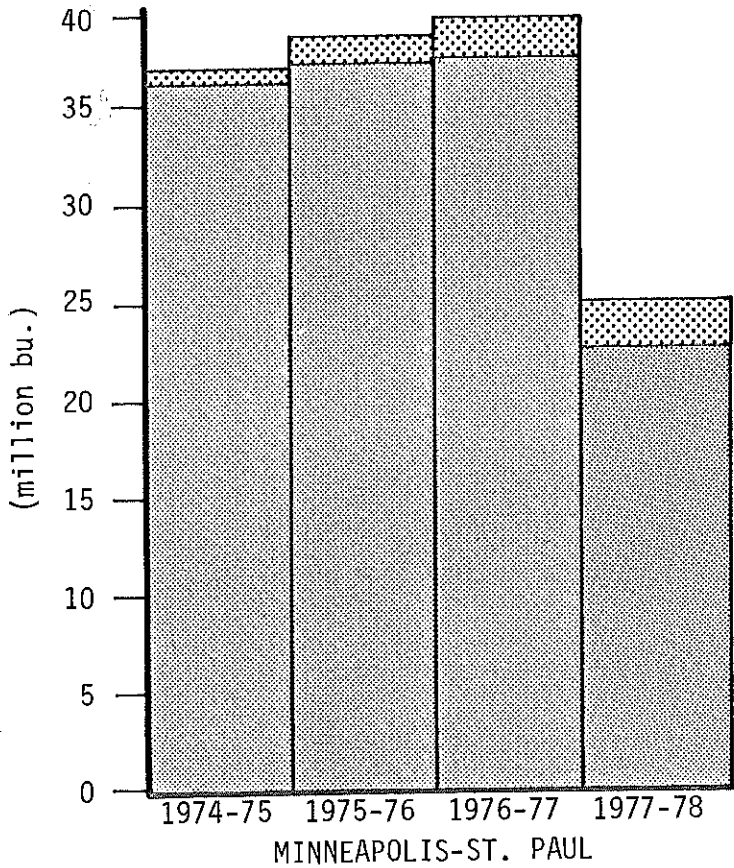
NORTH DAKOTA BARLEY SHIPMENTS
BY DESTINATION



NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	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%)	23,111 (92%)	1,895 (8%)
DULUTH - SUPERIOR	6,235 (68%)	2,969 (32%)	6,331 (51%)	6,015 (49%)	5,792 (22%)	20,880 (78%)	6,145 (27%)	16,249 (73%)
WEST	646 (39%)	1,006 (61%)	128 (14%)	765 (86%)	74 (58%)	52 (42%)	323 (41%)	469 (59%)
MISC. MARKETS	5,607 (67%)	2,753 (33%)	3,411 (77%)	994 (23%)	4,329 (64%)	2,459 (36%)	11,583 (88%)	3,340 (22%)
TOTAL	49,271 (87%)	7,406 (23%)	47,436 (84%)	8,918 (16%)	48,169 (66%)	25,144 (34%)	41,162 (65%)	21,953 (35%)

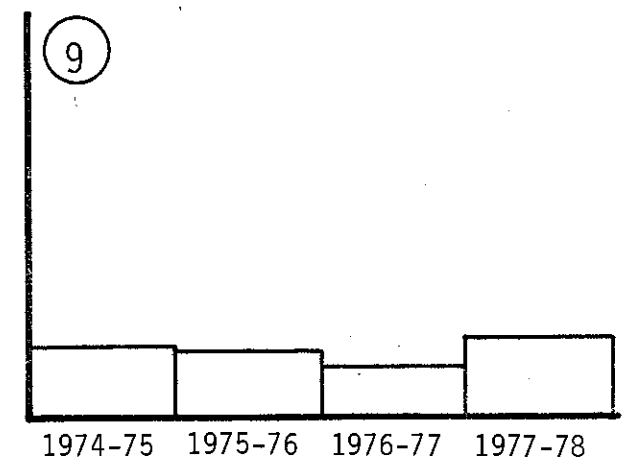
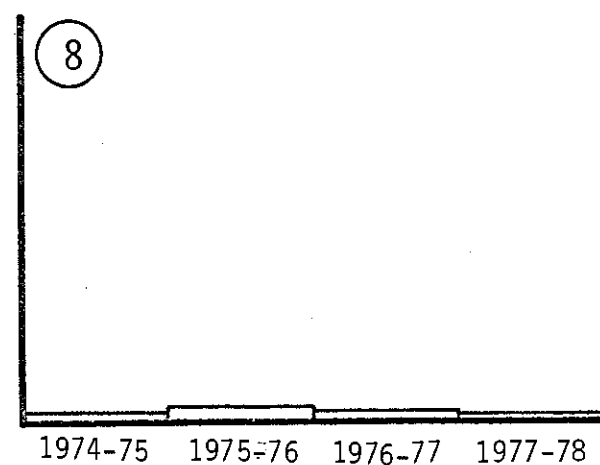
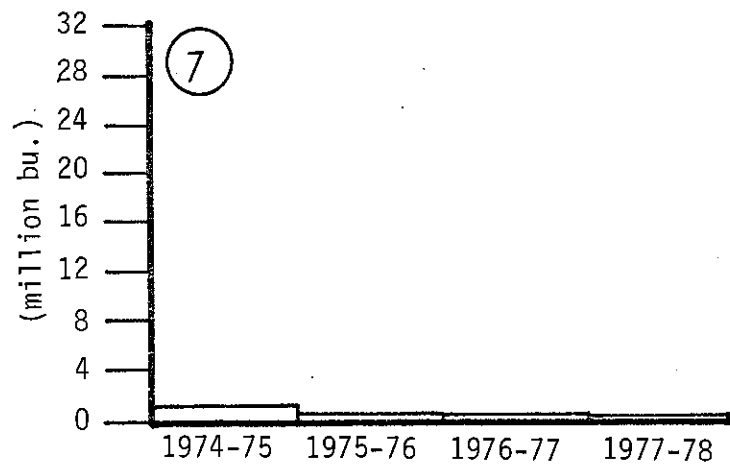
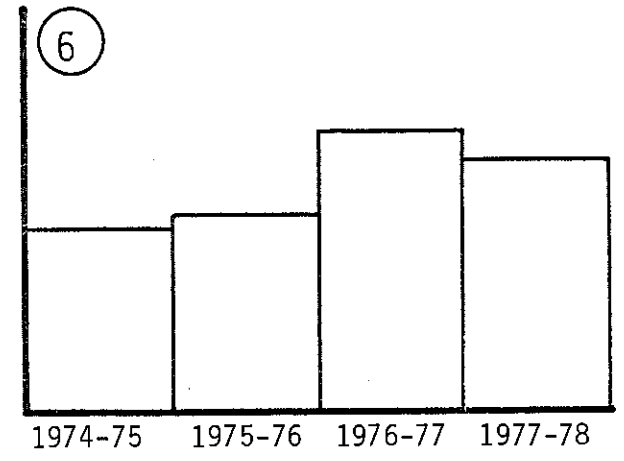
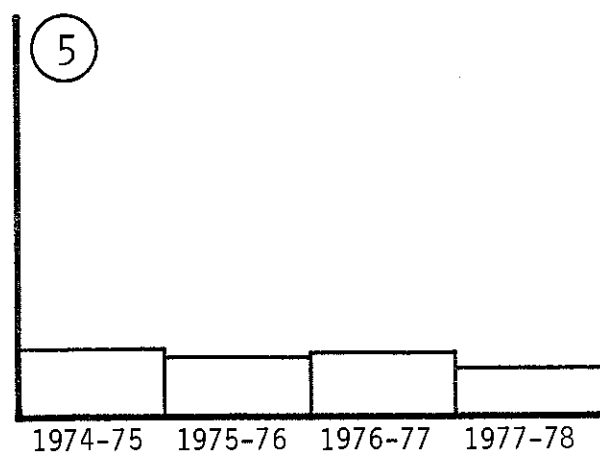
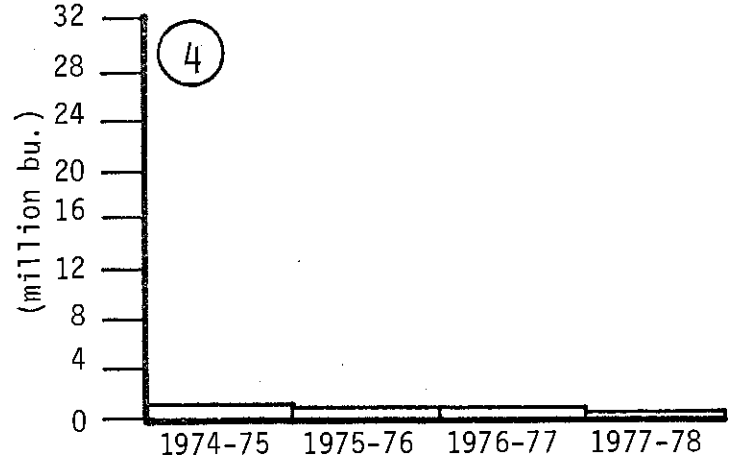
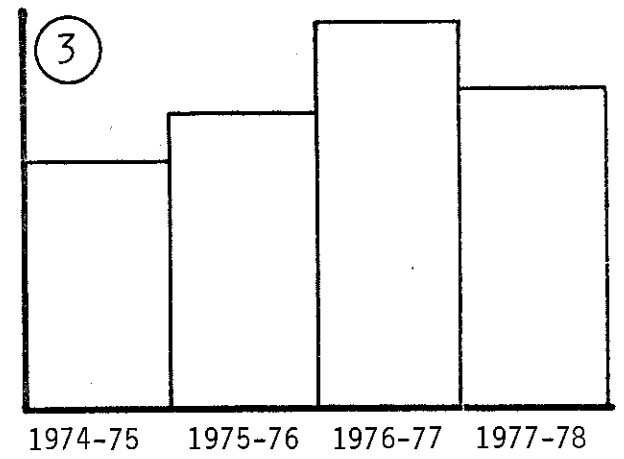
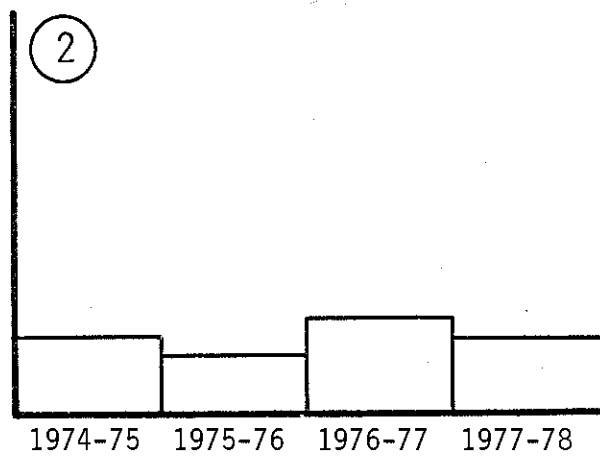
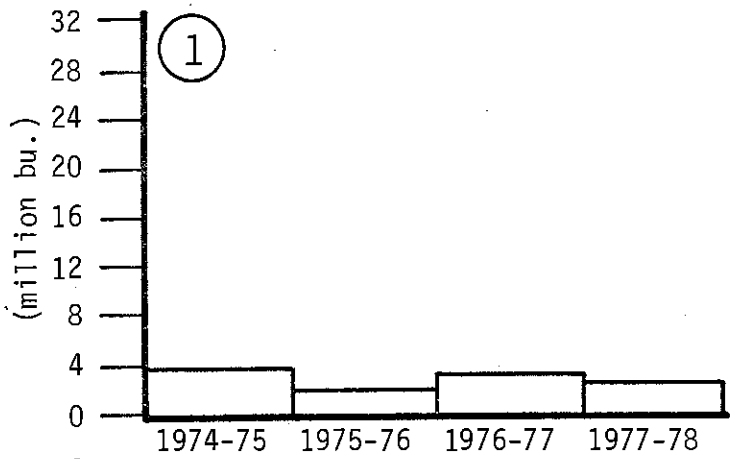
NORTH DAKOTA BARLEY SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION



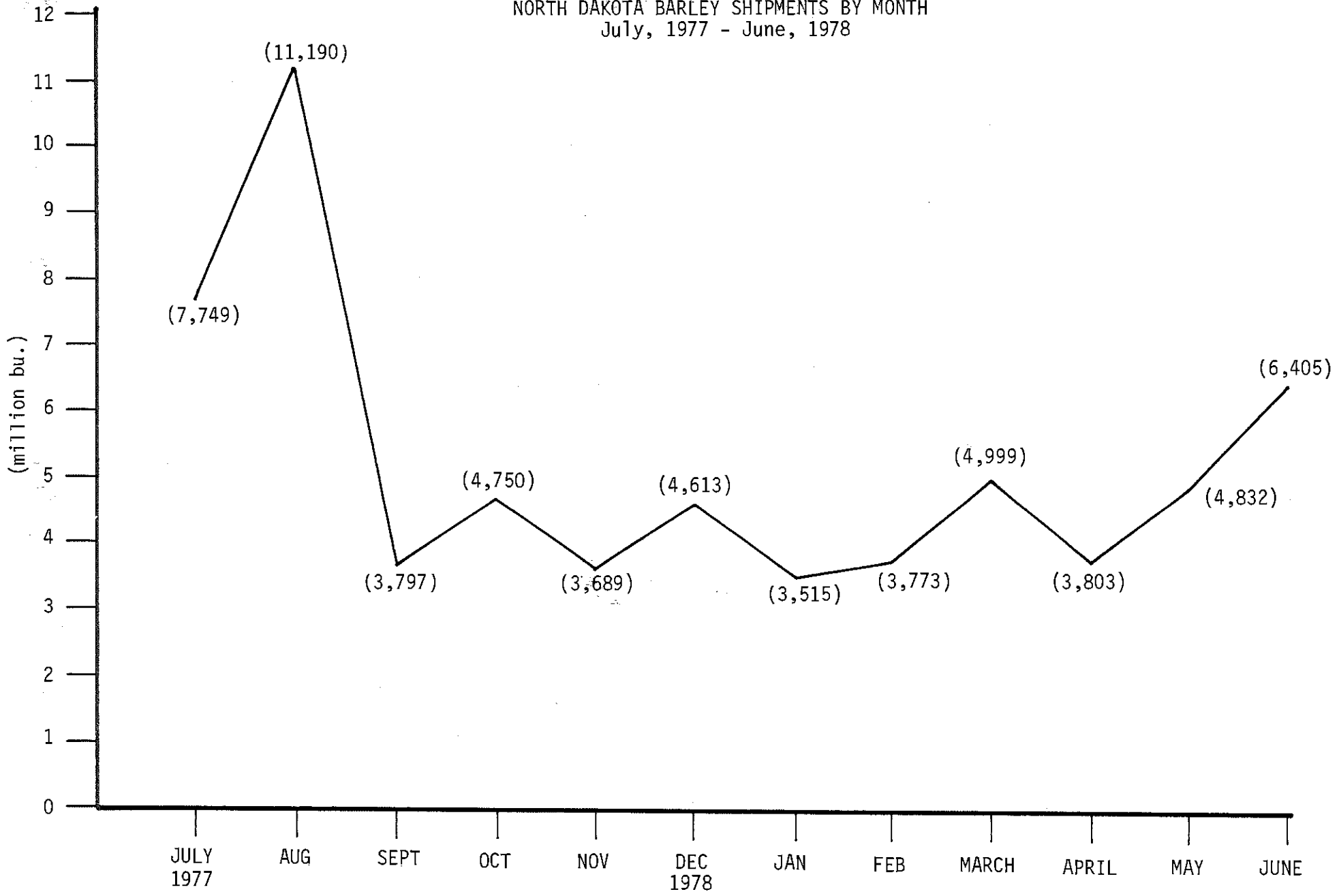
NORTH DAKOTA BARLEY SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

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

NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA BARLEY SHIPMENTS BY MONTH
July, 1977 - June, 1978

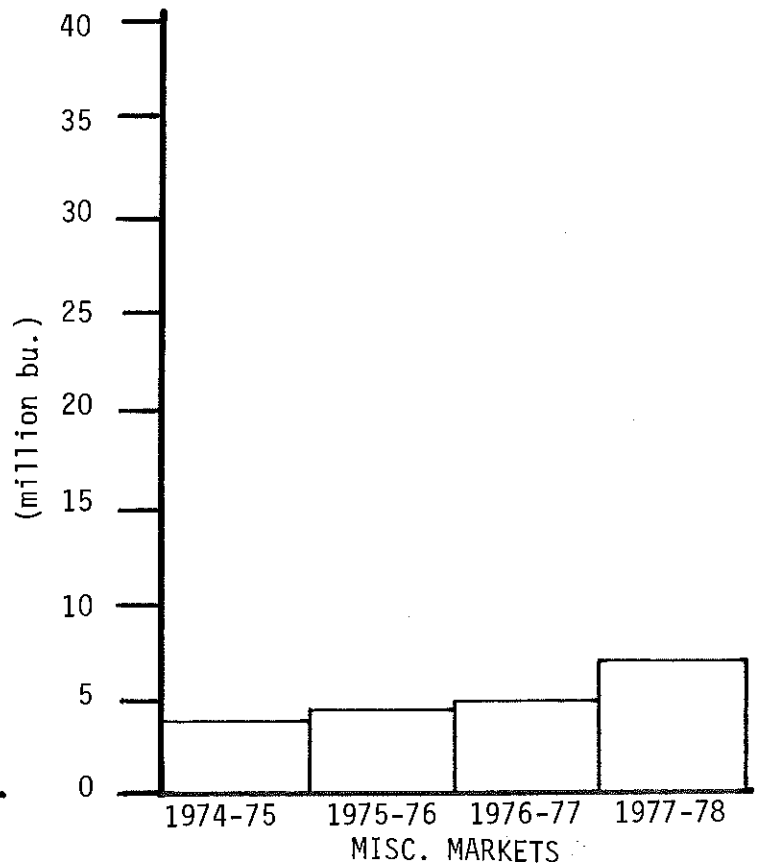
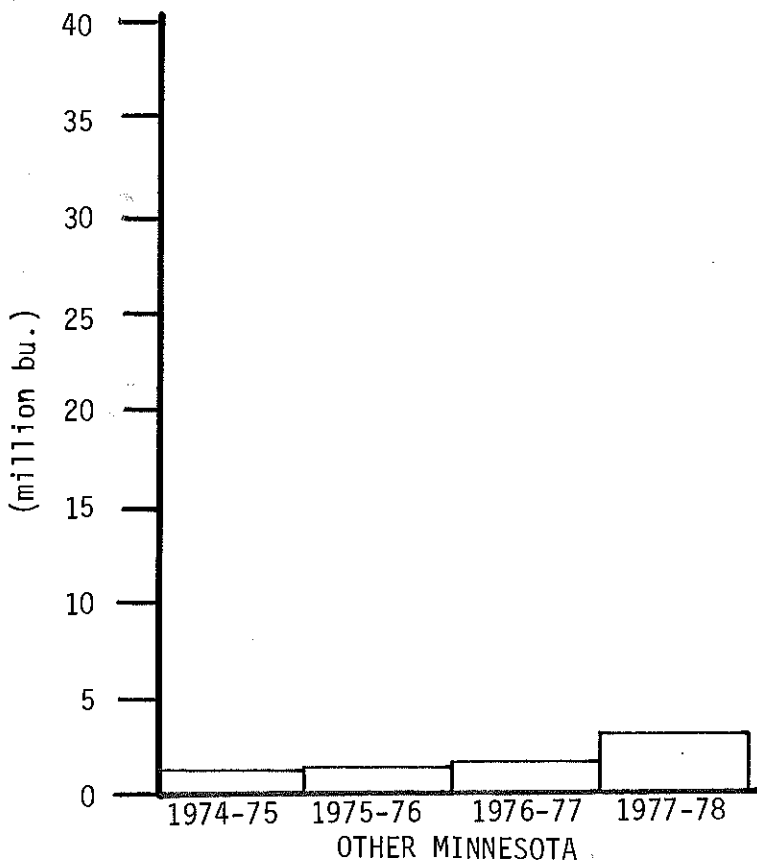
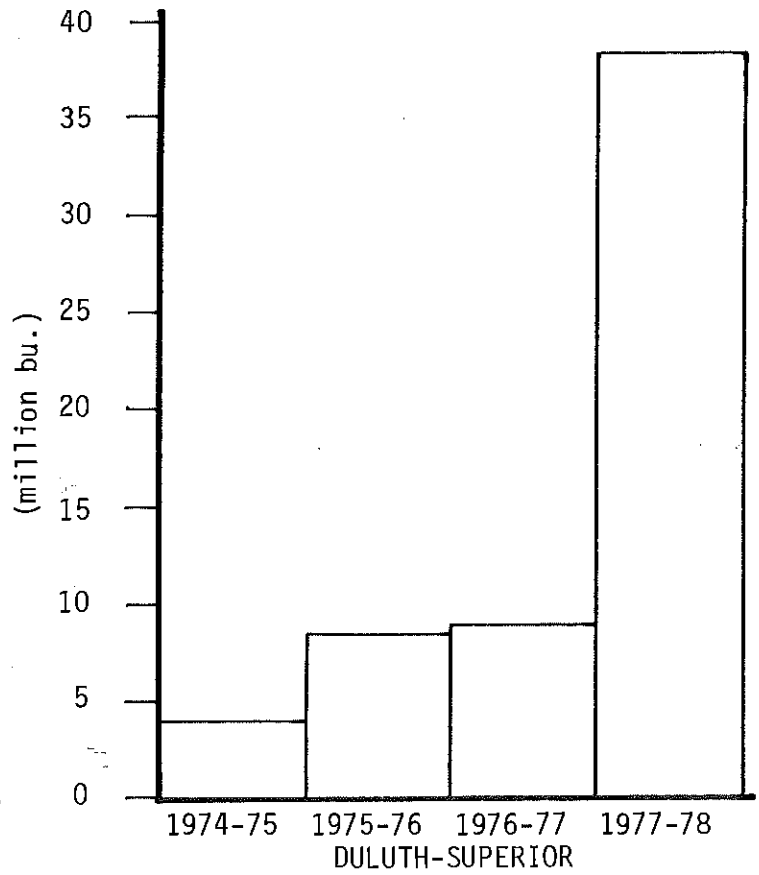
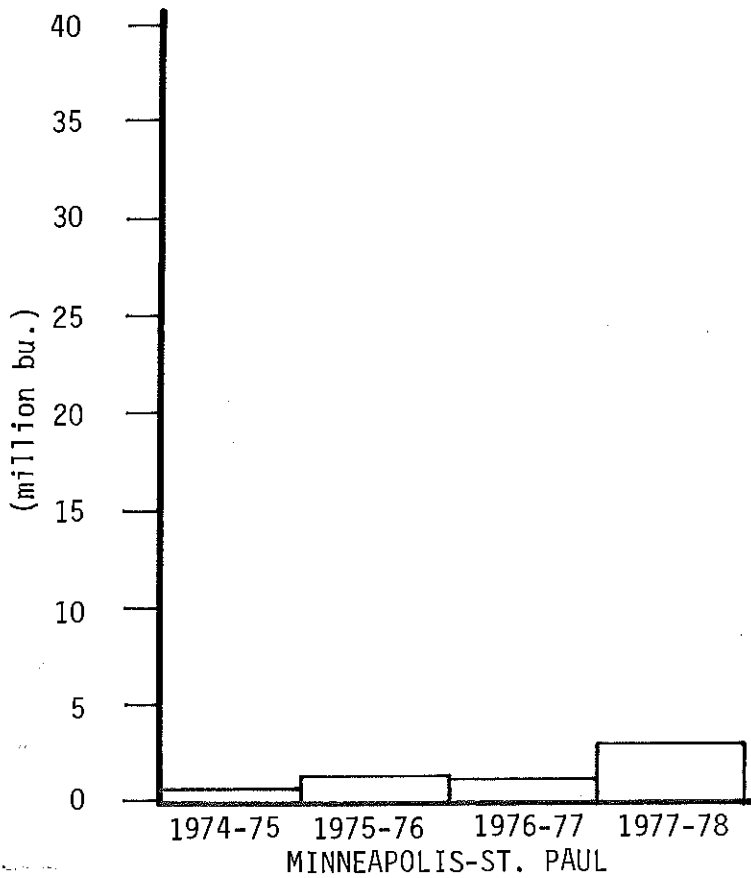


**SUNFLOWER SEED
MOVEMENTS**

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY DESTINATION

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

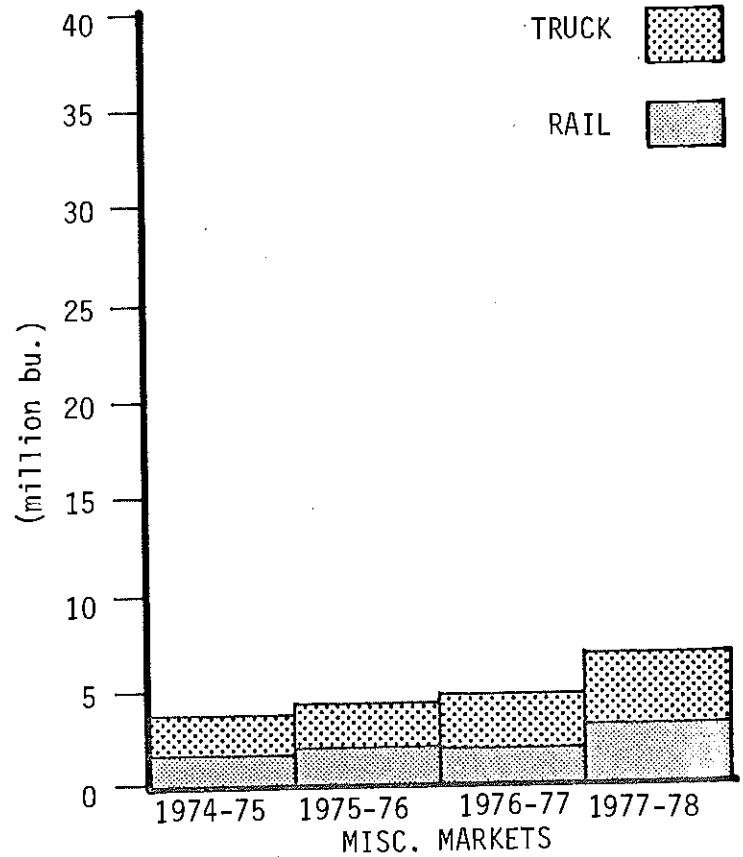
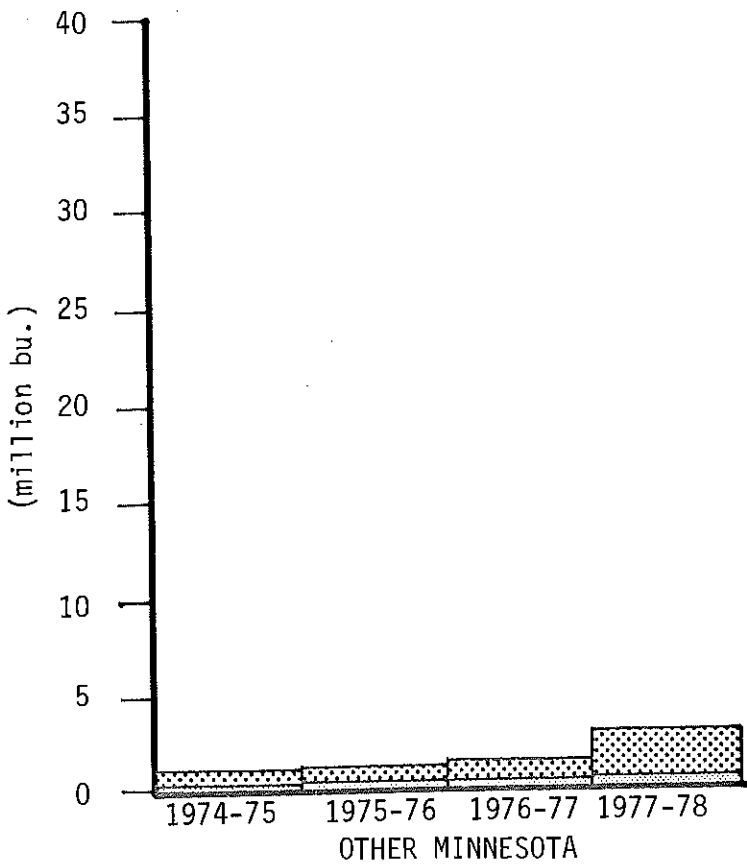
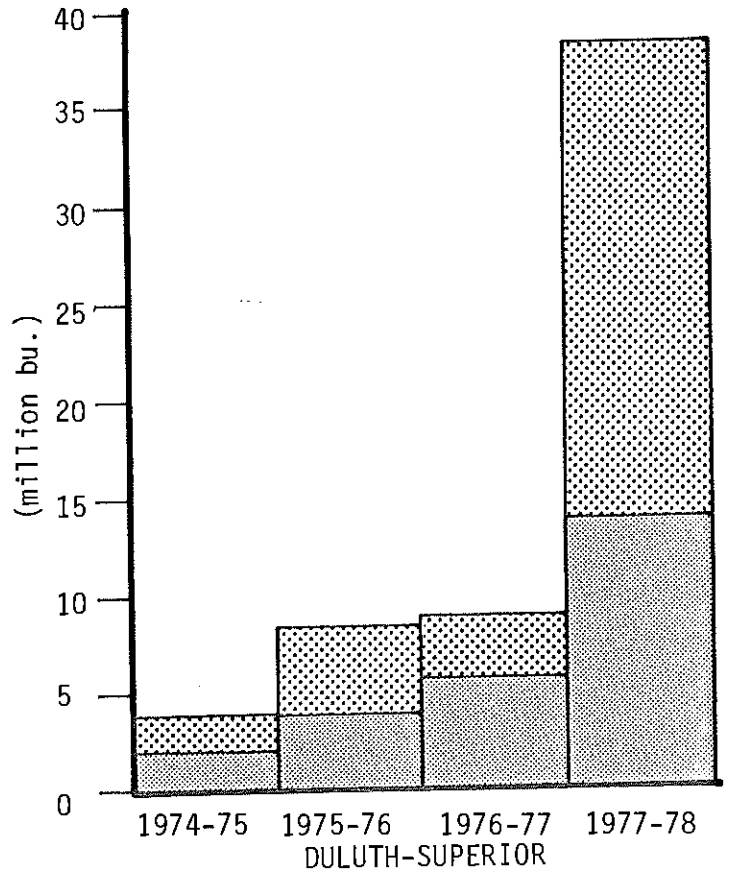
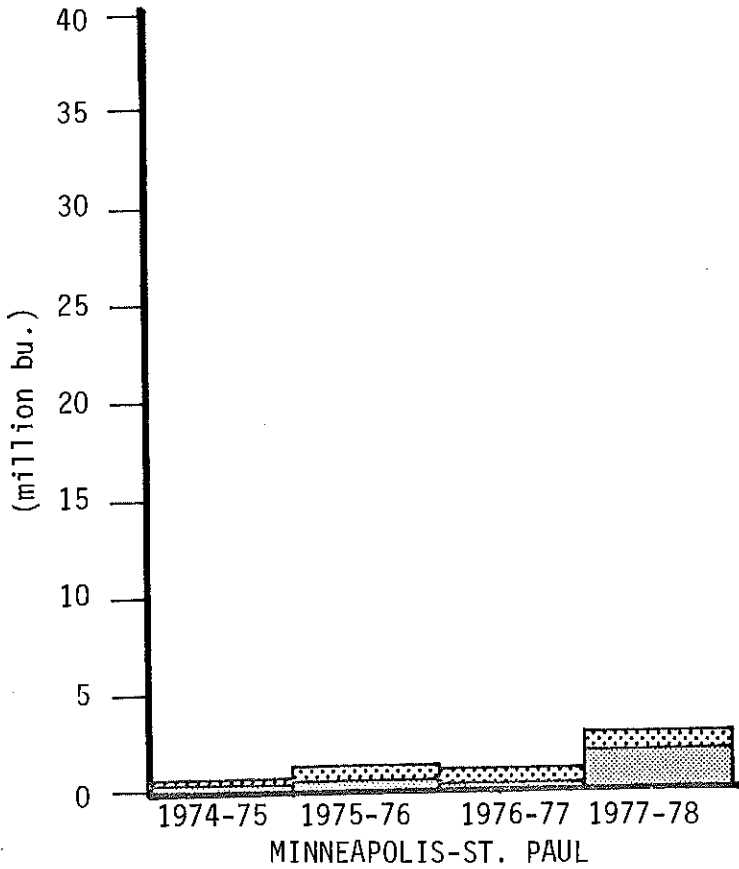
NORTH DAKOTA SUNFLOWER SEED SHIPMENTS
BY DESTINATION



NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
	(thousand bu.)							
MINNEAPOLIS - ST. PAUL	190 (47%)	211 (53%)	510 (44%)	647 (56%)	700 (81%)	163 (19%)	770 (26%)	2,223 (74%)
DULUTH - SUPERIOR	2,271 (58%)	1,661 (42%)	4,155 (51%)	3,928 (49%)	5,598 (64%)	3,095 (36%)	14,820 (39%)	23,199 (61%)
OTHER MINNESOTA	232 (22%)	843 (78%)	279 (24%)	868 (76%)	256 (19%)	1,114 (81%)	367 (11%)	2,853 (89%)
MISC. MARKETS	1,646 (46%)	1,959 (54%)	1,947 (47%)	2,220 (53%)	1,966 (42%)	2,730 (58%)	3,154 (42%)	4,433 (58%)
TOTAL	4,339 (48%)	4,674 (52%)	6,891 (47%)	7,663 (53%)	8,520 (55%)	7,102 (45%)	19,111 (37%)	32,708 (63%)

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION

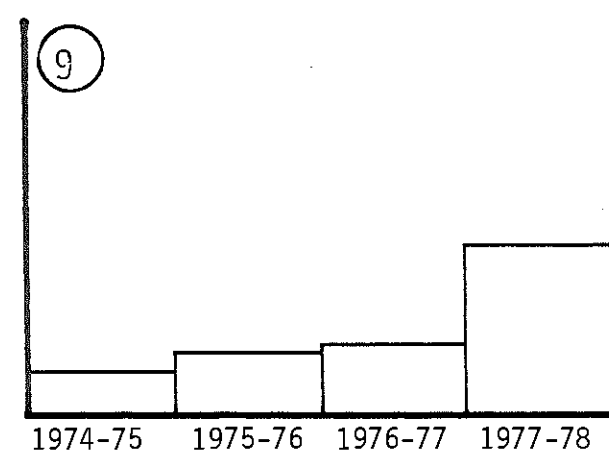
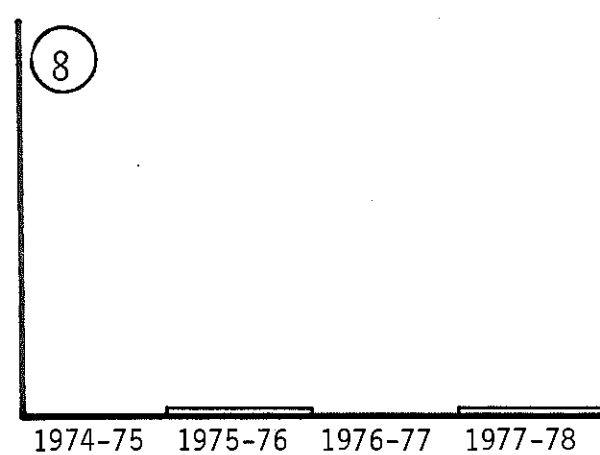
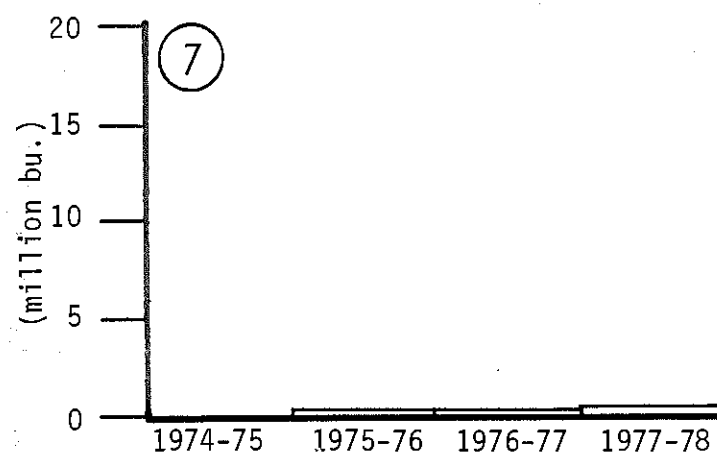
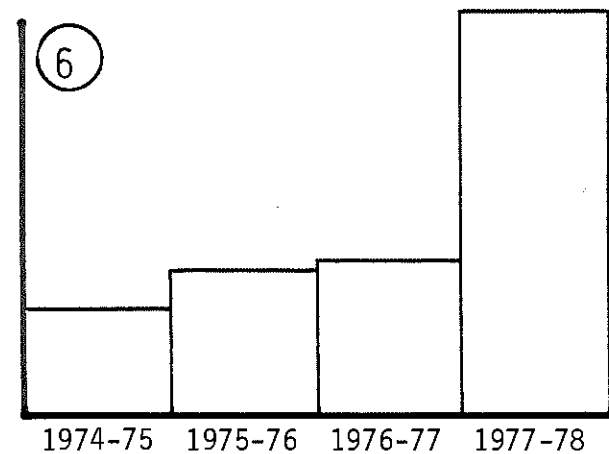
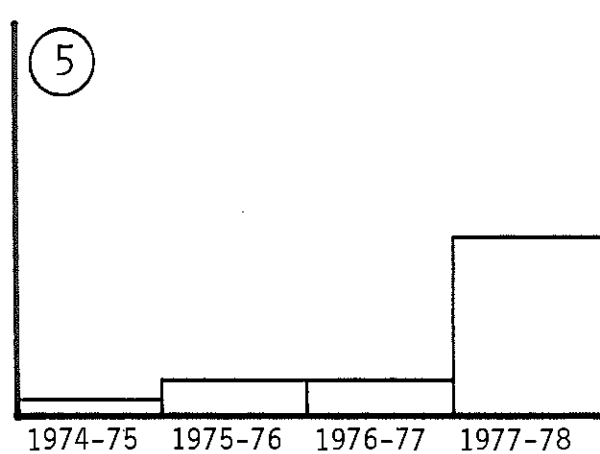
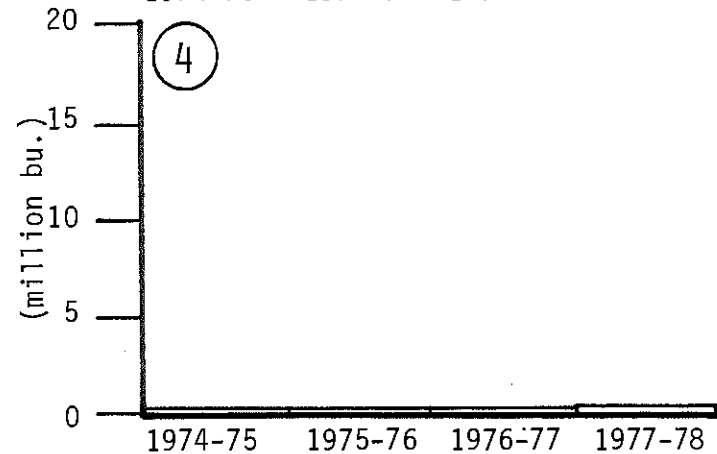
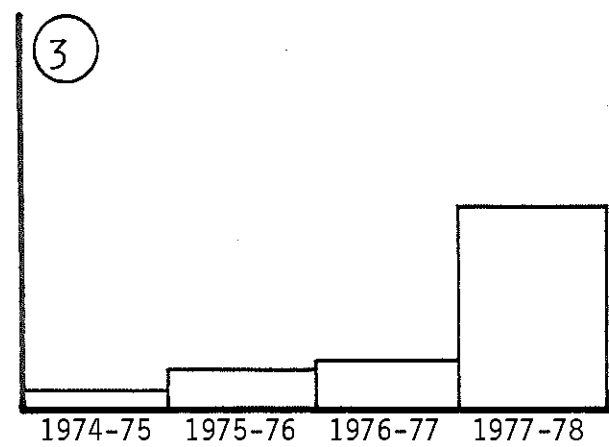
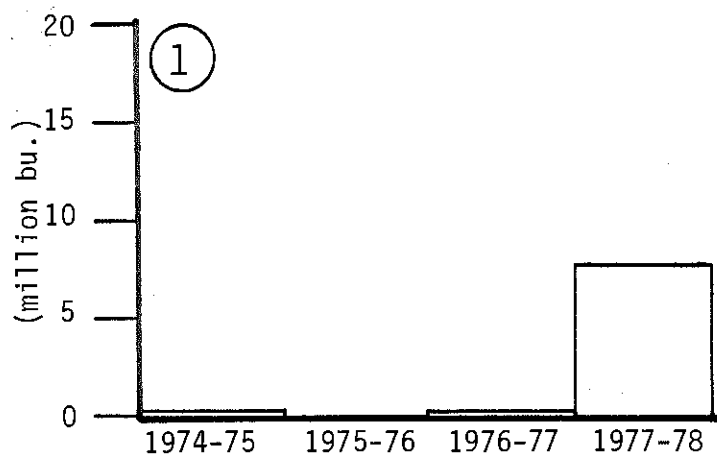


NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY ORIGIN

(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78
	(thousand bu.)			
1	15	0	7	771
2	2	71	26	1,267
3	791	1,853	2,184	10,469
4	4	9	20	179
5	470	1,772	1,788	9,087
6	5,464	7,441	7,861	10,710
7	0	2	25	225
8	0	7	0	129
9	2,267	3,399	3,711	8,442
Total	9,013	14,554	15,622	41,279

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

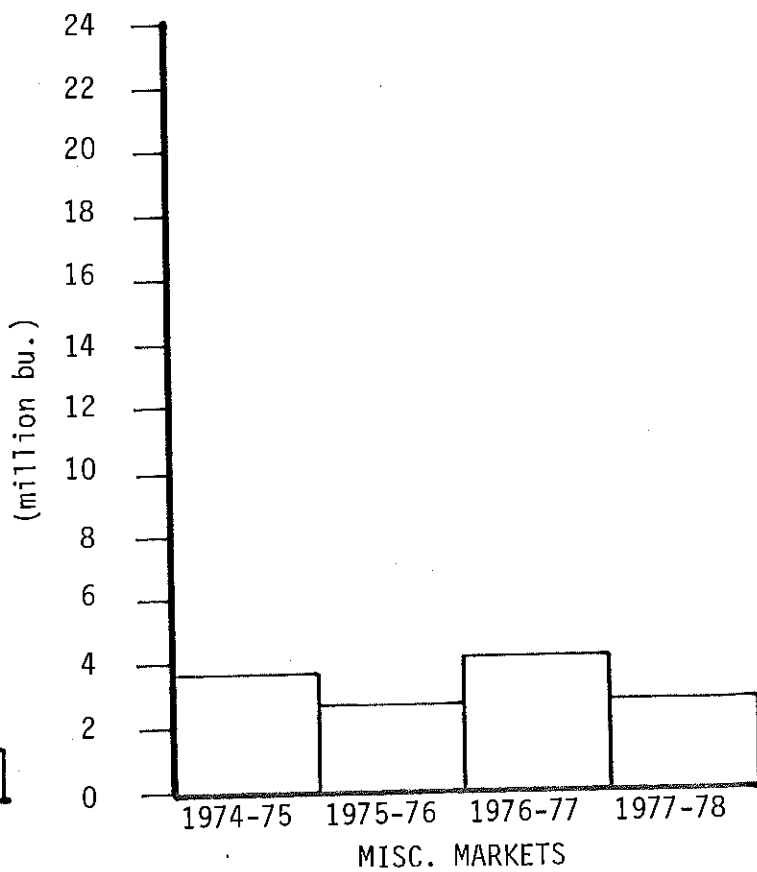
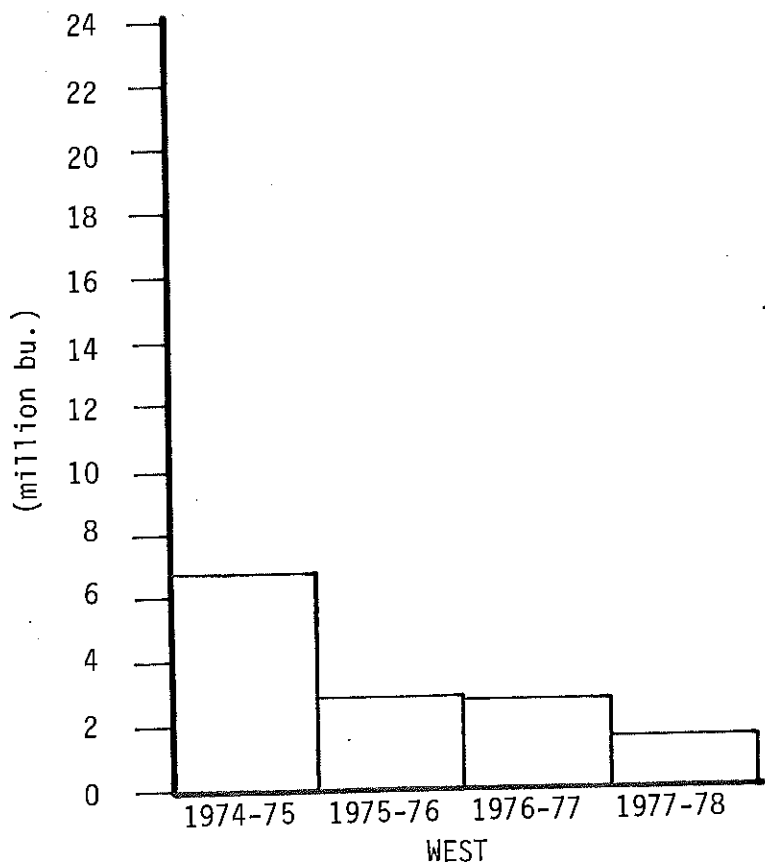
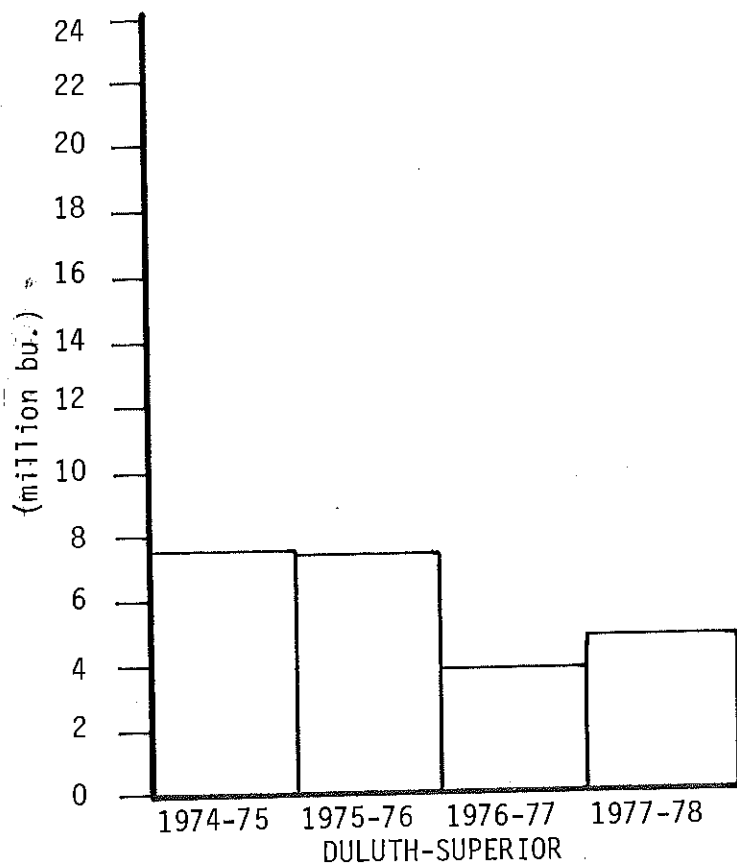
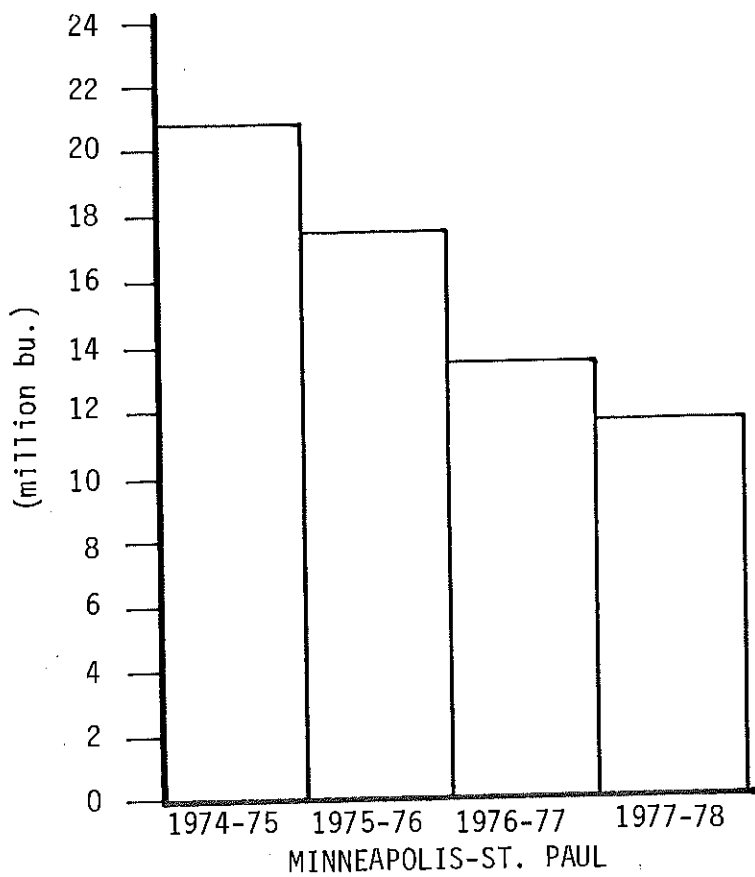


**OATS
MOVEMENTS**

NORTH DAKOTA OATS SHIPMENTS
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78
	(thousand bu.)			
MINNEAPOLIS - ST. PAUL	10,439 (54%)	8,779 (58%)	6,769 (56%)	5,860 (56%)
DULUTH - SUPERIOR	3,752 (19%)	3,531 (23%)	1,932 (16%)	2,385 (23%)
WEST	3,446 (18%)	1,458 (10%)	1,427 (12%)	851 (8%)
MISCELLANEOUS MARKETS	1,825 (9%)	1,334 (9%)	2,031 (17%)	1,396 (13%)
TOTAL	19,462 (100%)	15,102 (100%)	12,159 (100%)	10,492 (100%)

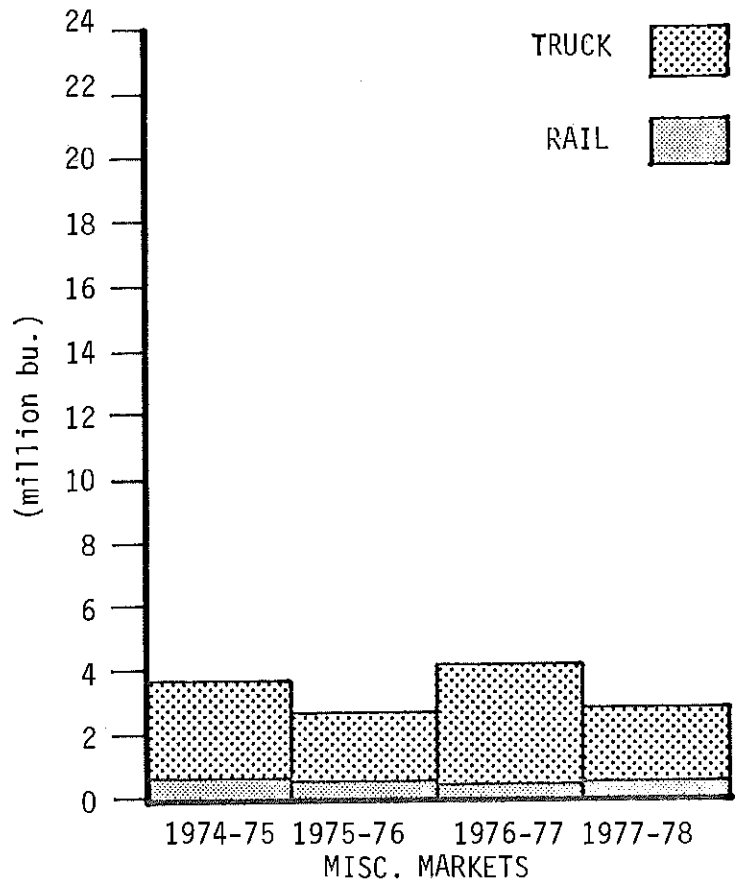
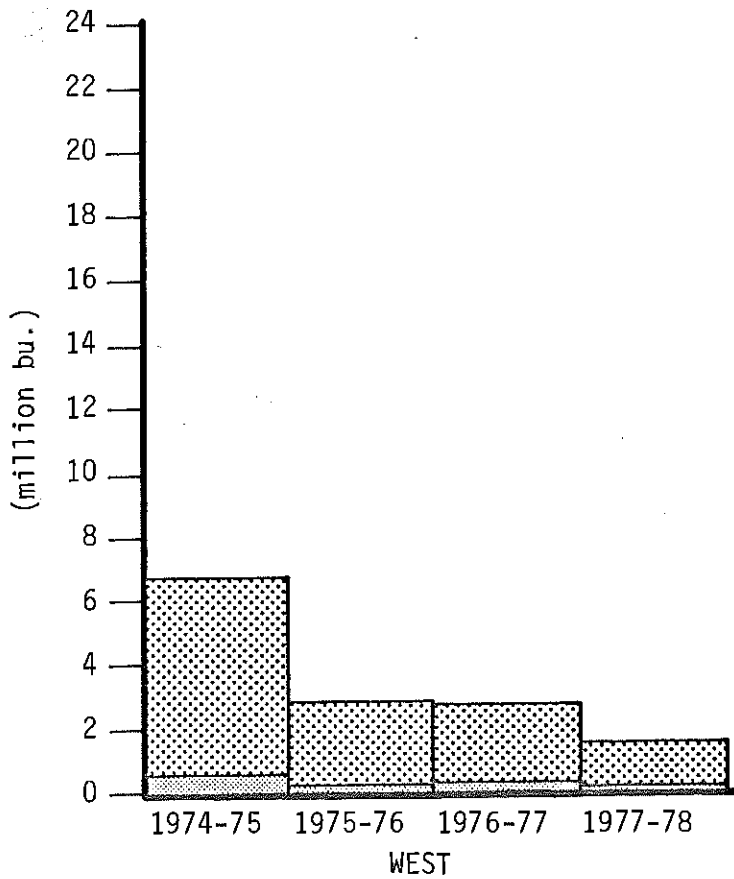
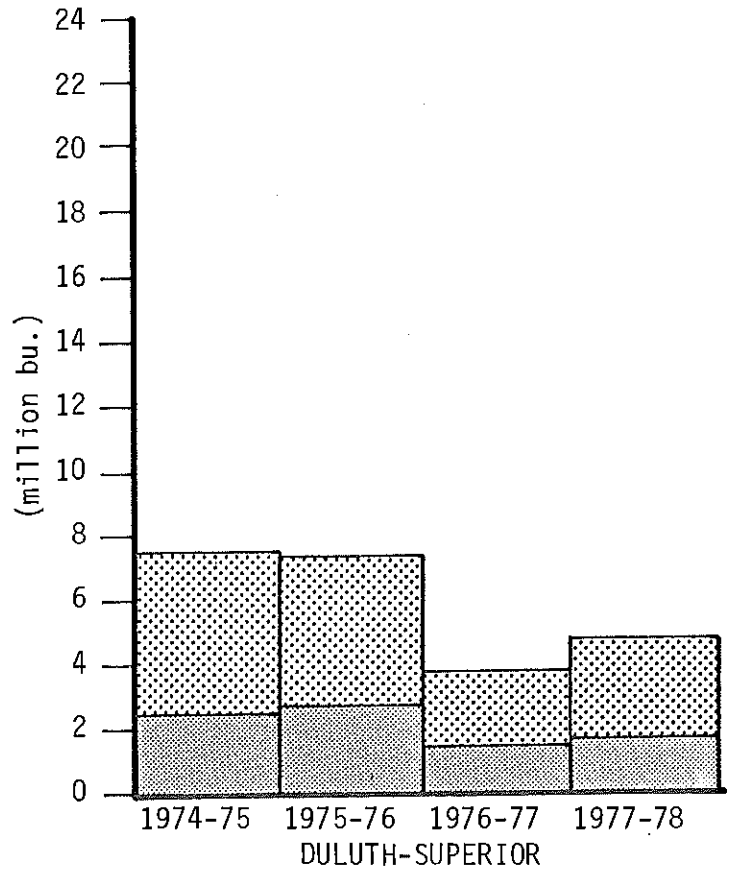
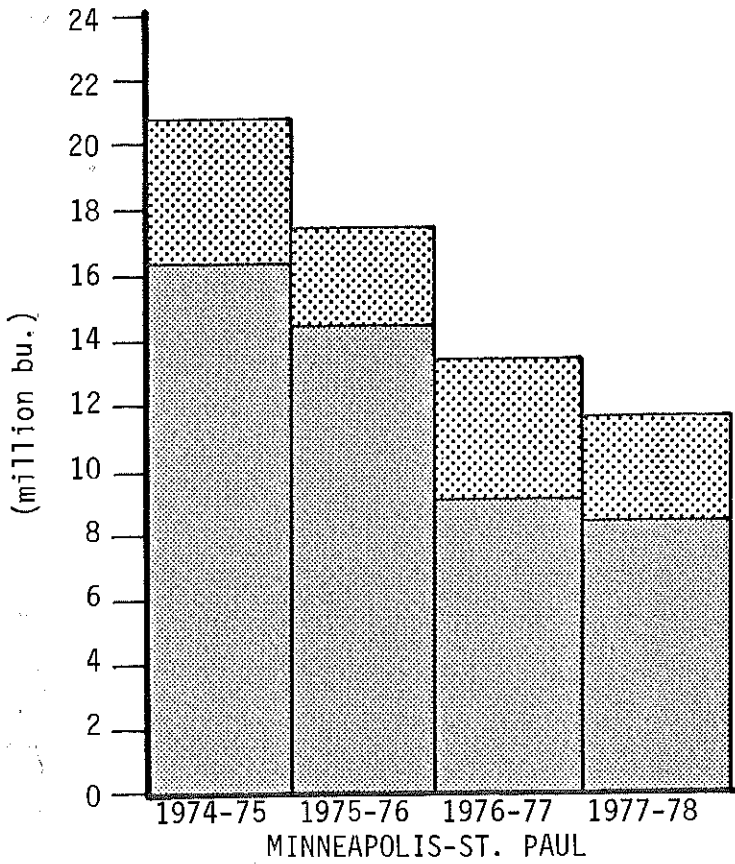
NORTH DAKOTA OATS SHIPMENTS
BY DESTINATION



NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	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%)	4,244 (72%)	1,616 (28%)
DULUTH-SUPERIOR	1,373 (38%)	2,199 (62%)	1,442 (41%)	2,090 (59%)	761 (39%)	1,171 (61%)	869 (36%)	1,516 (64%)
WEST	319 (9%)	3,127 (91%)	92 (6%)	1,366 (94%)	121 (8%)	1,306 (92%)	12 (1%)	839 (99%)
MISC. MARKETS	316 (17%)	1,509 (83%)	304 (23%)	1,031 (77%)	231 (11%)	1,800 (89%)	255 (18%)	1,142 (82%)
TOTAL	10,156 (53%)	9,126 (47%)	9,138 (61%)	5,966 (39%)	5,715 (47%)	6,443 (53%)	5,380 (51%)	5,113 (49%)

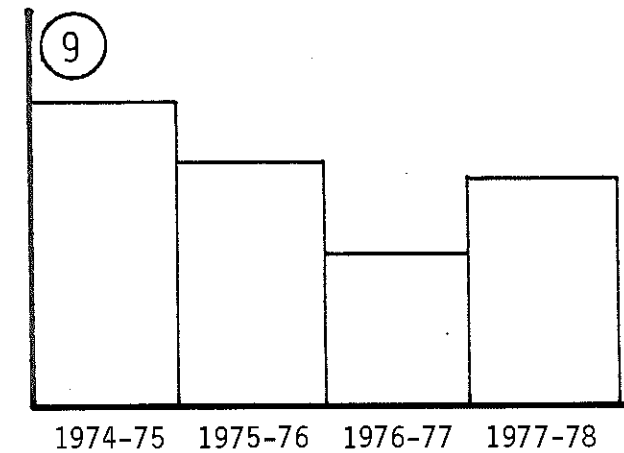
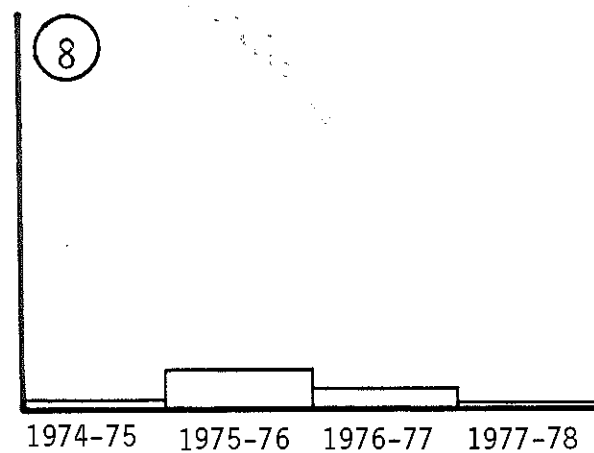
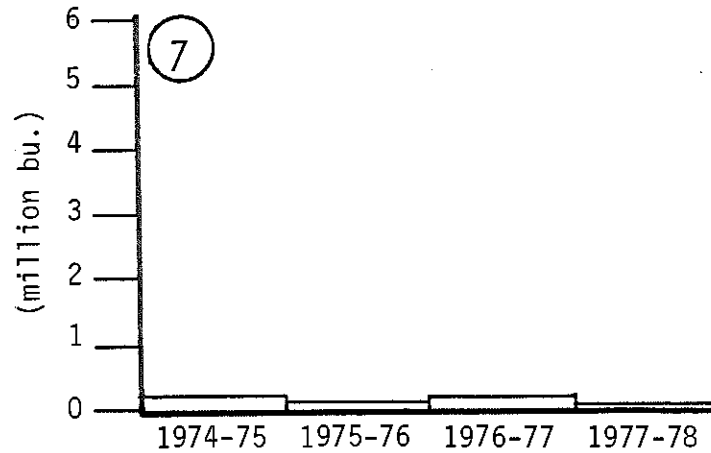
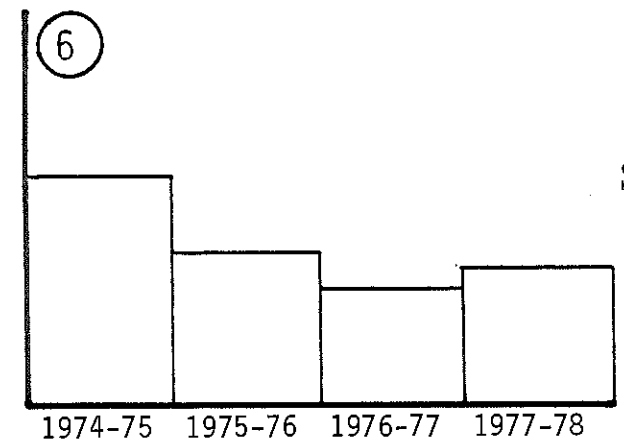
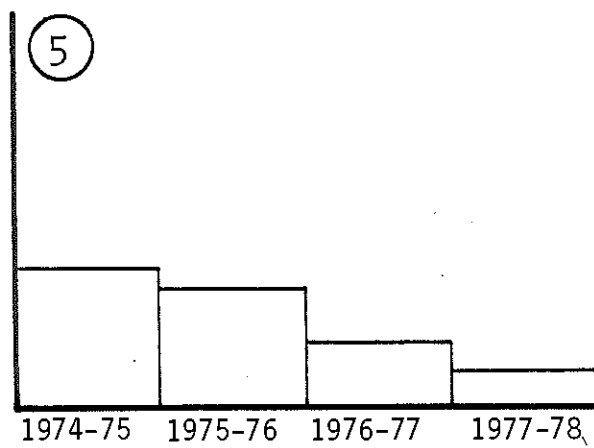
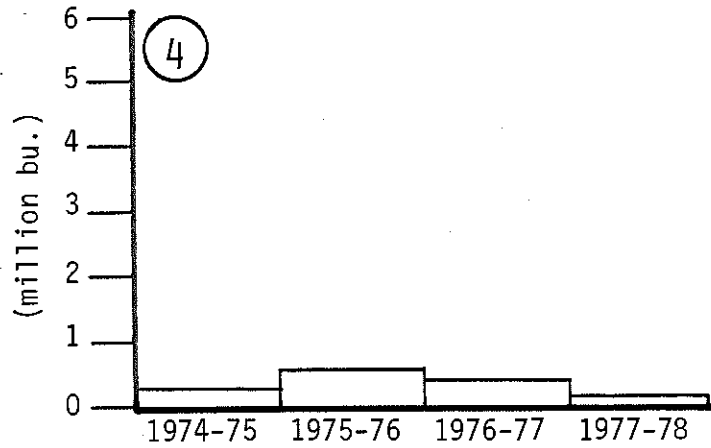
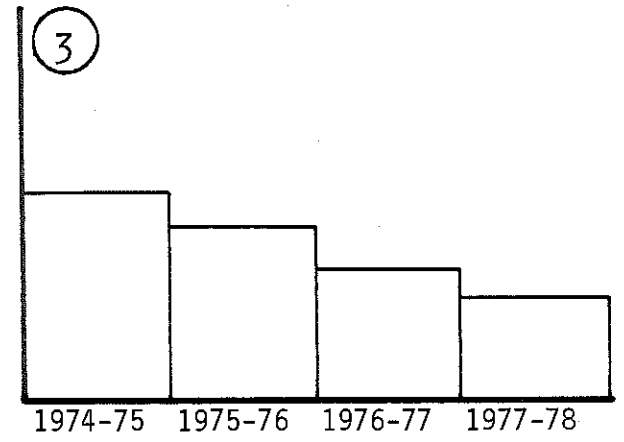
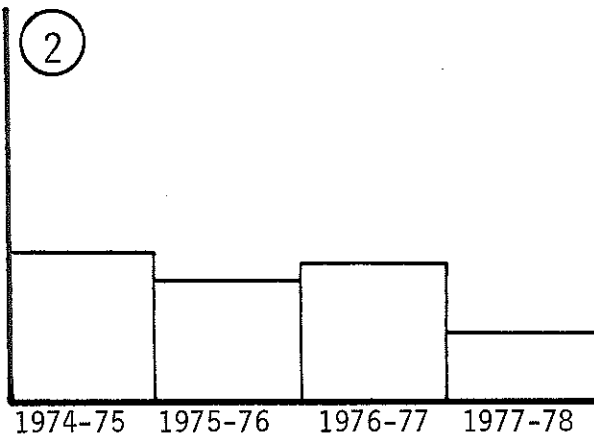
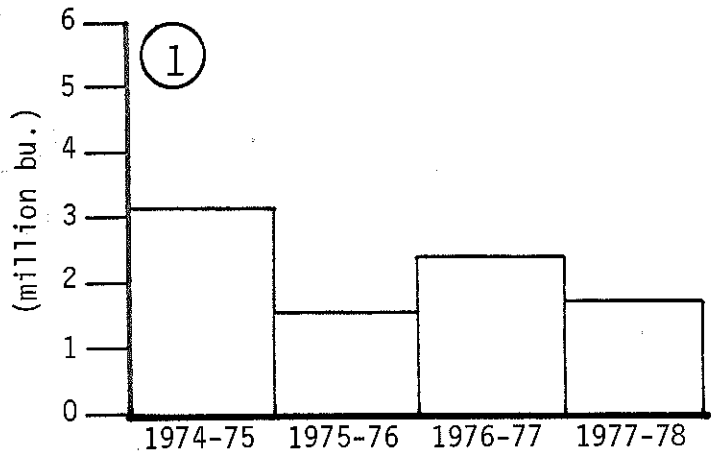
NORTH DAKOTA OATS SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION



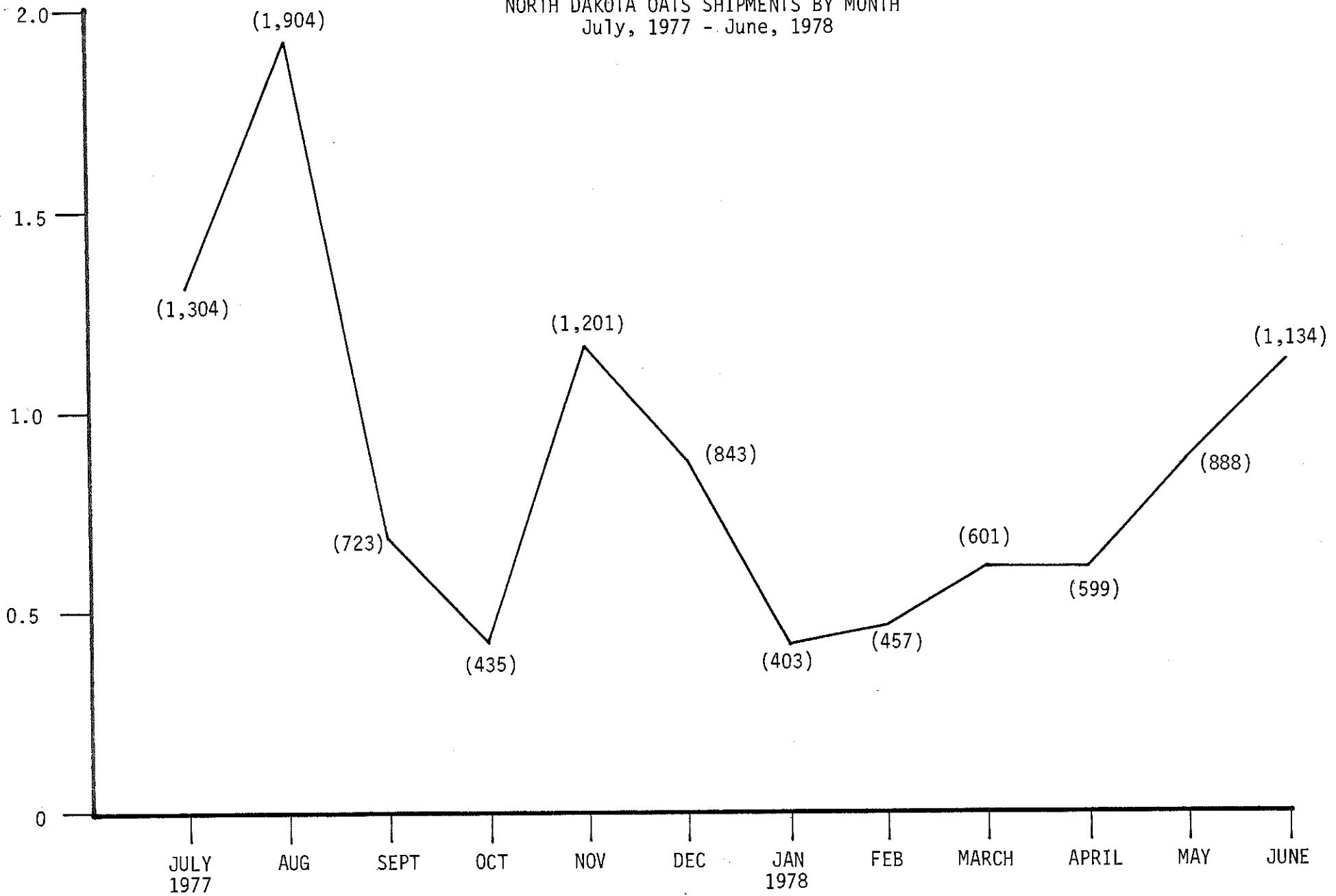
NORTH DAKOTA OATS SHIPMENTS
BY ORIGIN
(CROP REPORTING DISTRICT)

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

NORTH DAKOTA OATS SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA OATS SHIPMENTS BY MONTH
July, 1977 - June, 1978

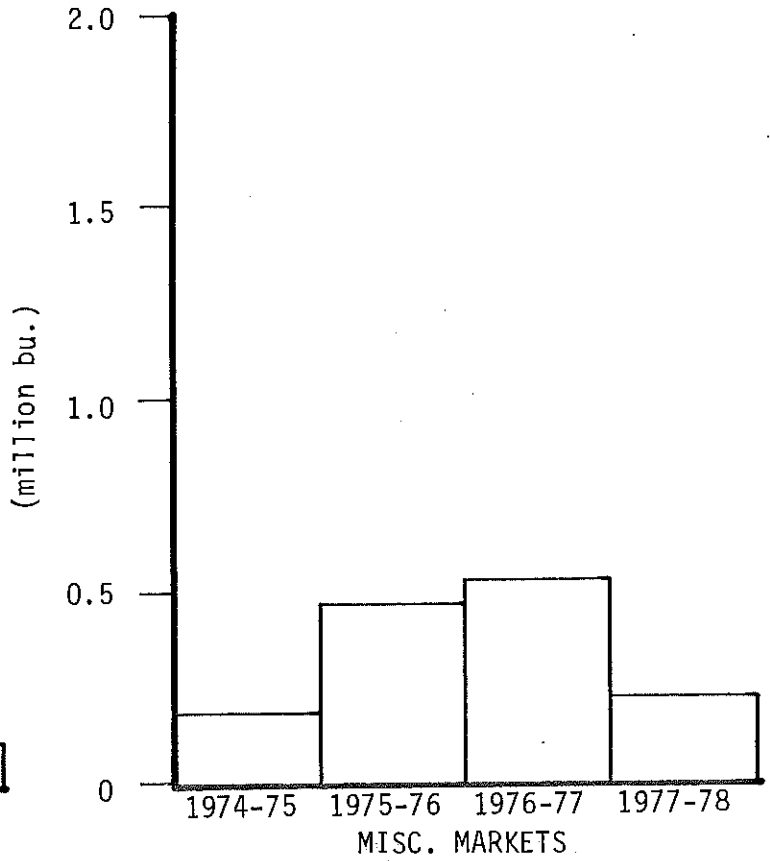
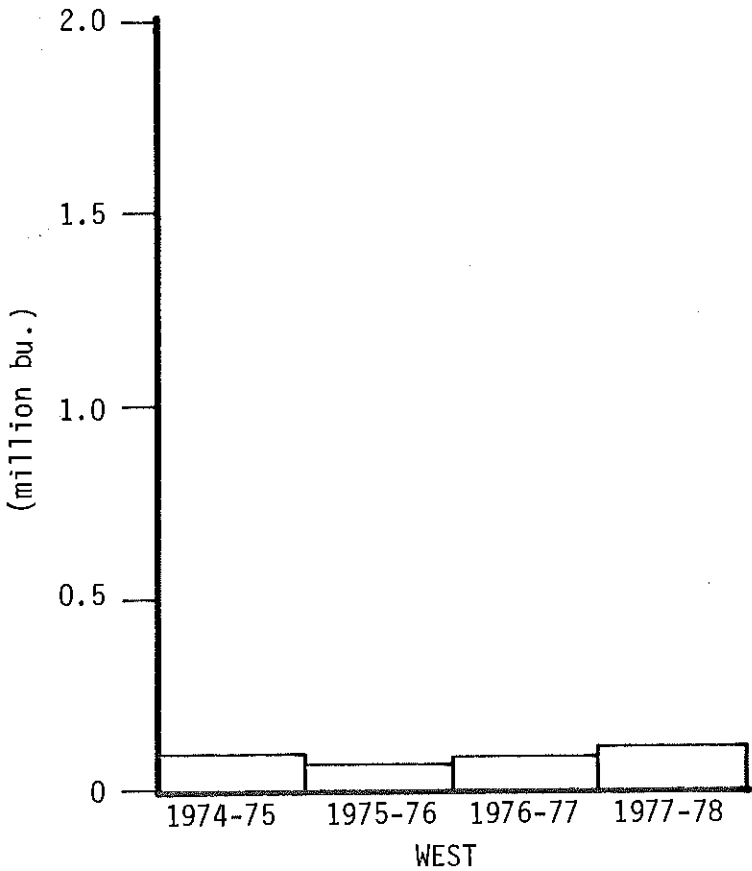
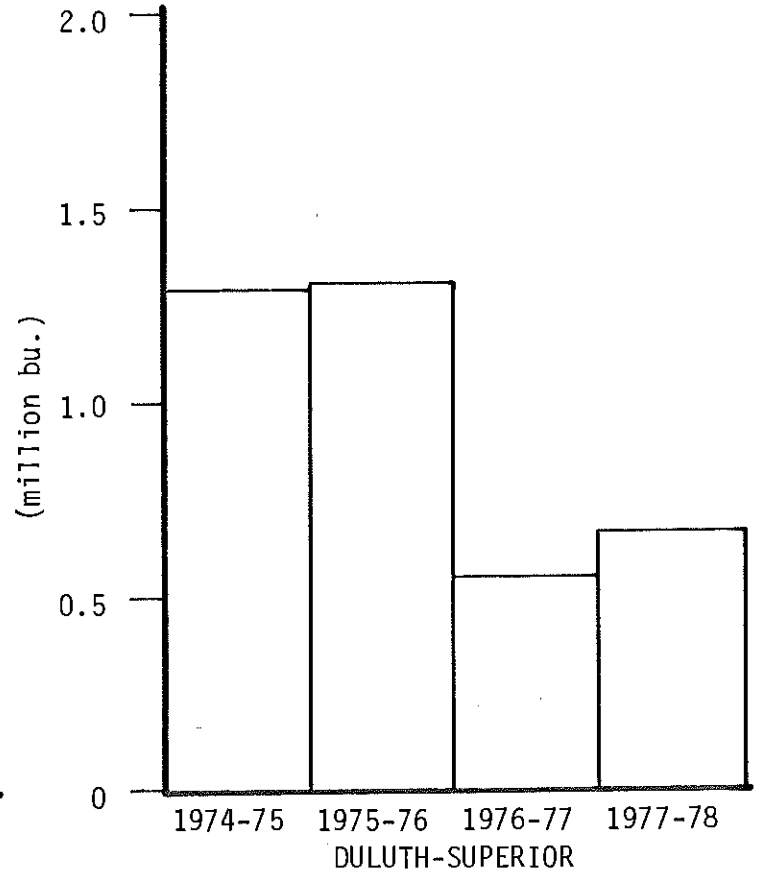
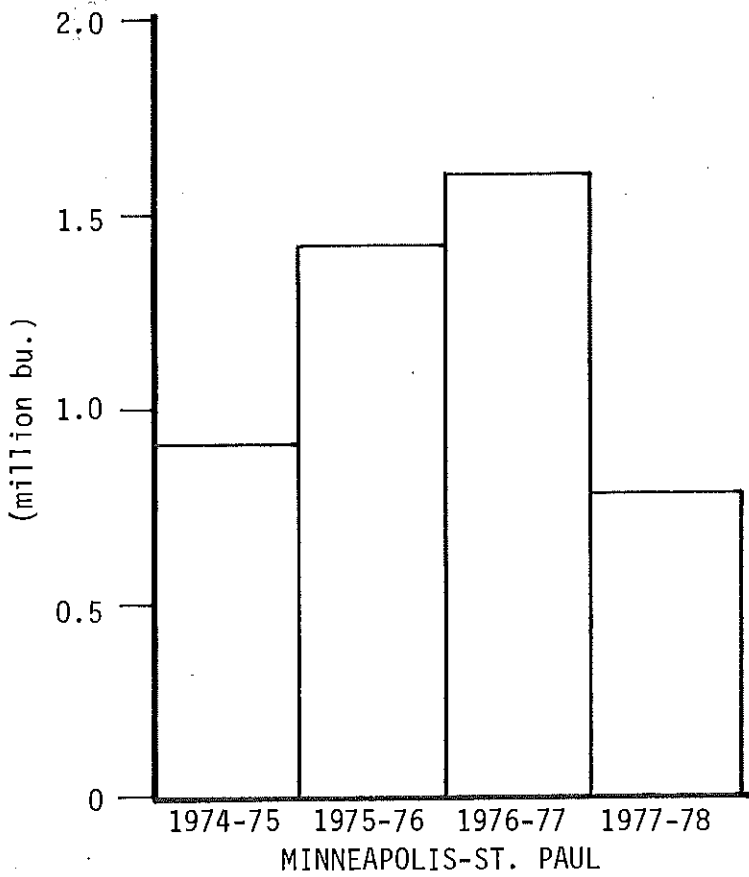


**RYE
MOVEMENTS**

NORTH DAKOTA RYE SHIPMENTS
BY DESTINATION

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

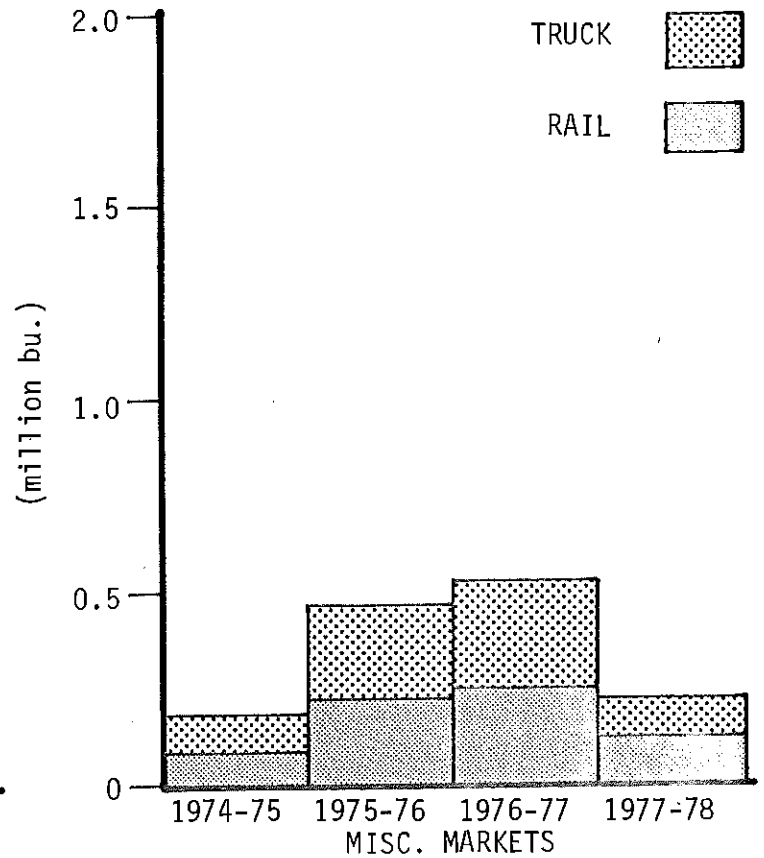
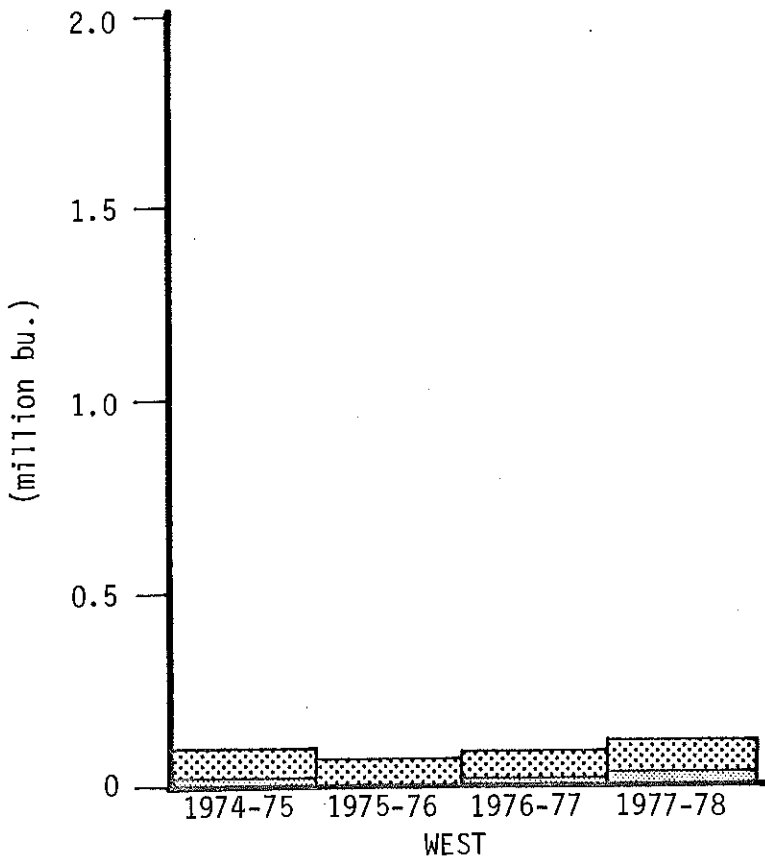
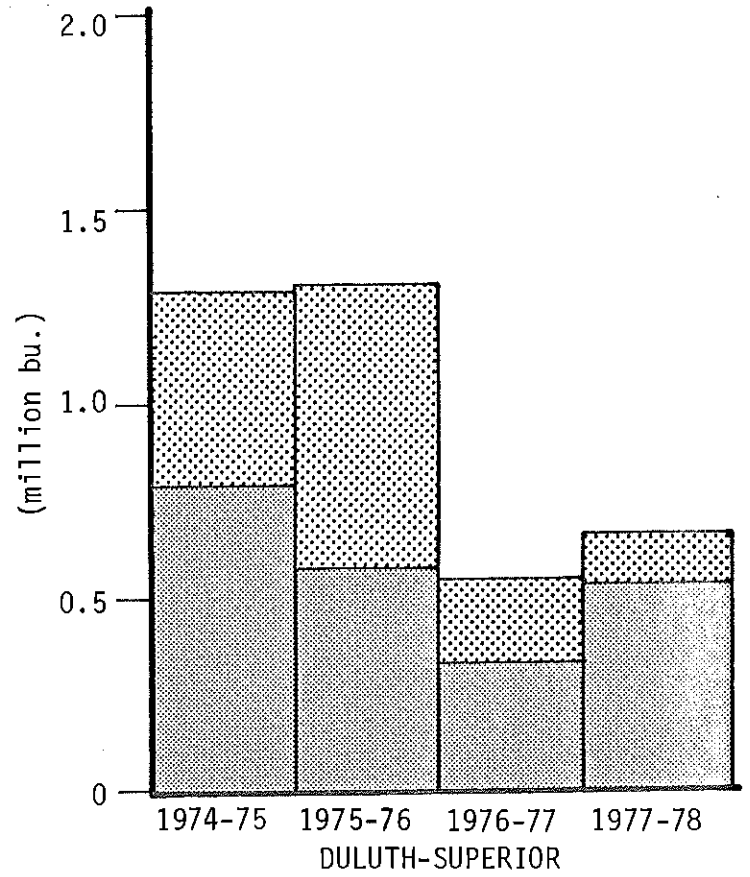
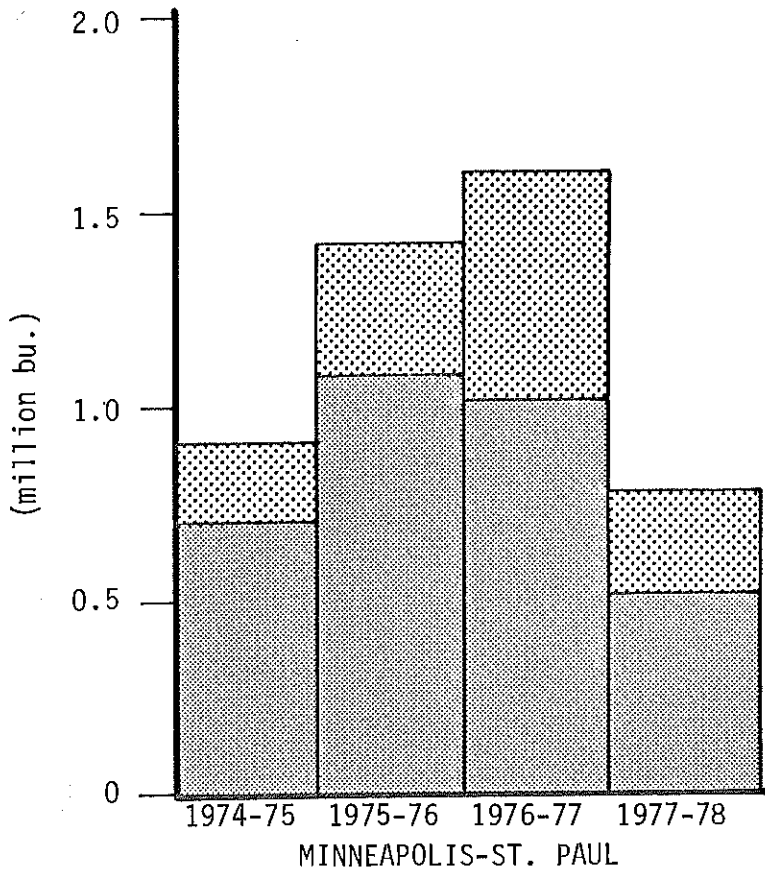
NORTH DAKOTA RYE SHIPMENTS
BY DESTINATION



NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	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%)	512 (67%)	257 (33%)
DULUTH-SUPERIOR	779 (59%)	538 (41%)	588 (44%)	743 (56%)	311 (56%)	246 (44%)	525 (78%)	146 (22%)
WEST	9 (9%)	91 (91%)	0 (0%)	71 (100%)	6 (7%)	80 (93%)	22 (21%)	82 (79%)
MISC. MARKETS	100 (50%)	98 (50%)	245 (54%)	210 (46%)	267 (52%)	247 (48%)	142 (62%)	86 (38%)
TOTAL	1,591 (63%)	923 (37%)	1,918 (58%)	1,377 (42%)	1,593 (58%)	1,176 (42%)	1,201 (68%)	571 (32%)

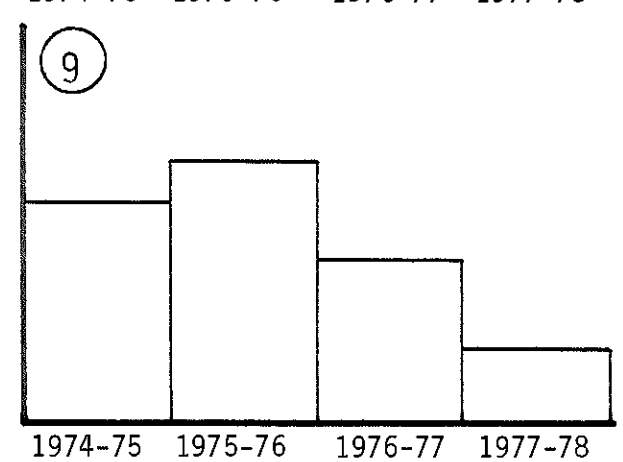
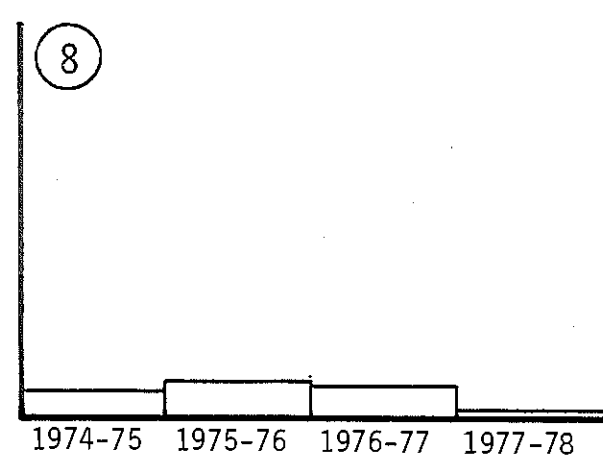
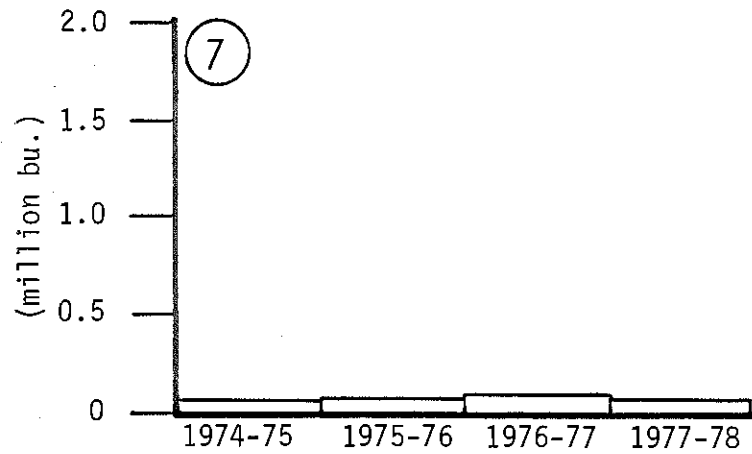
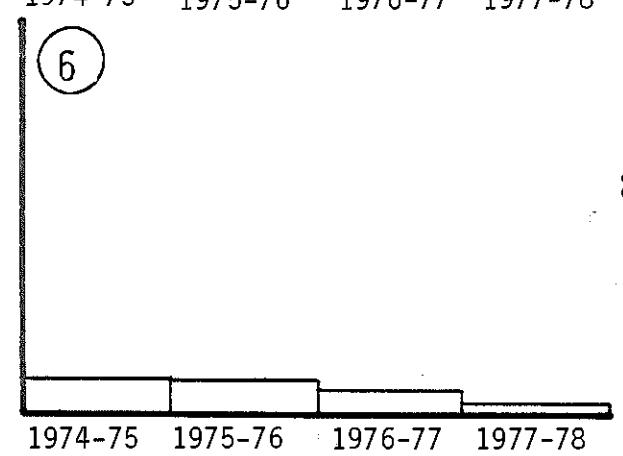
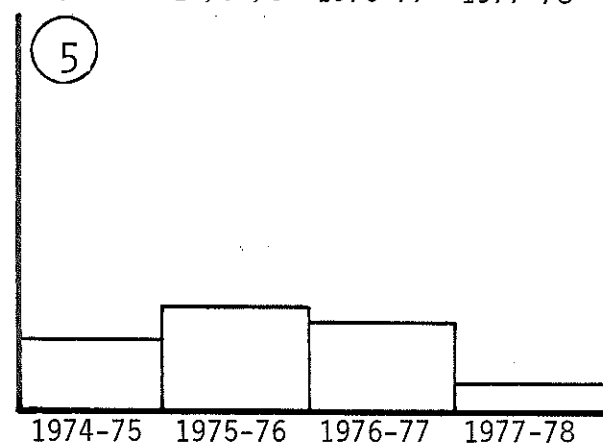
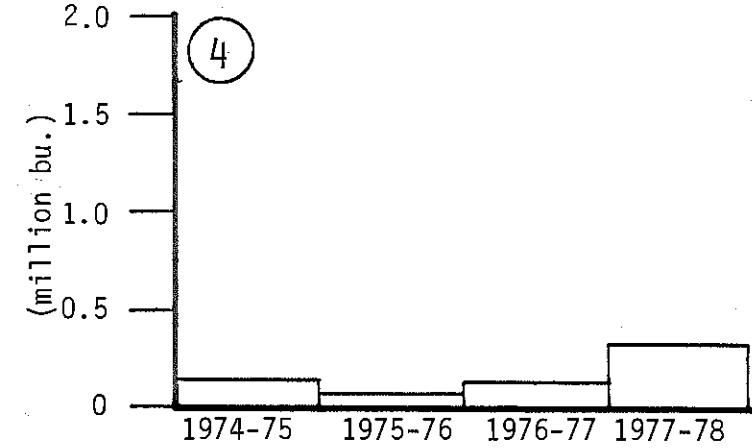
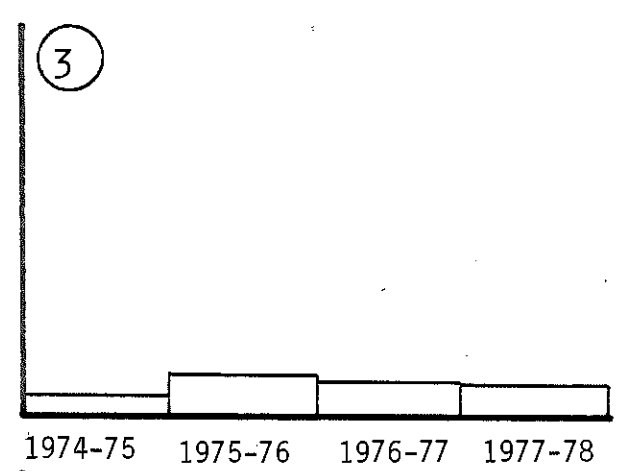
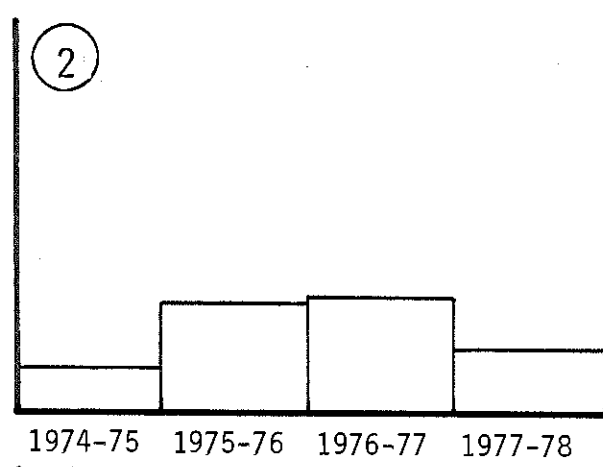
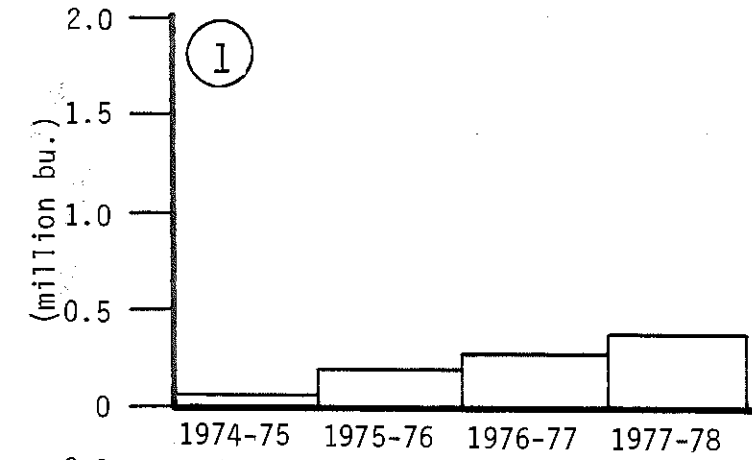
NORTH DAKOTA RYE SHIPMENTS
BY RAIL AND TRUCK AND DESTINATION



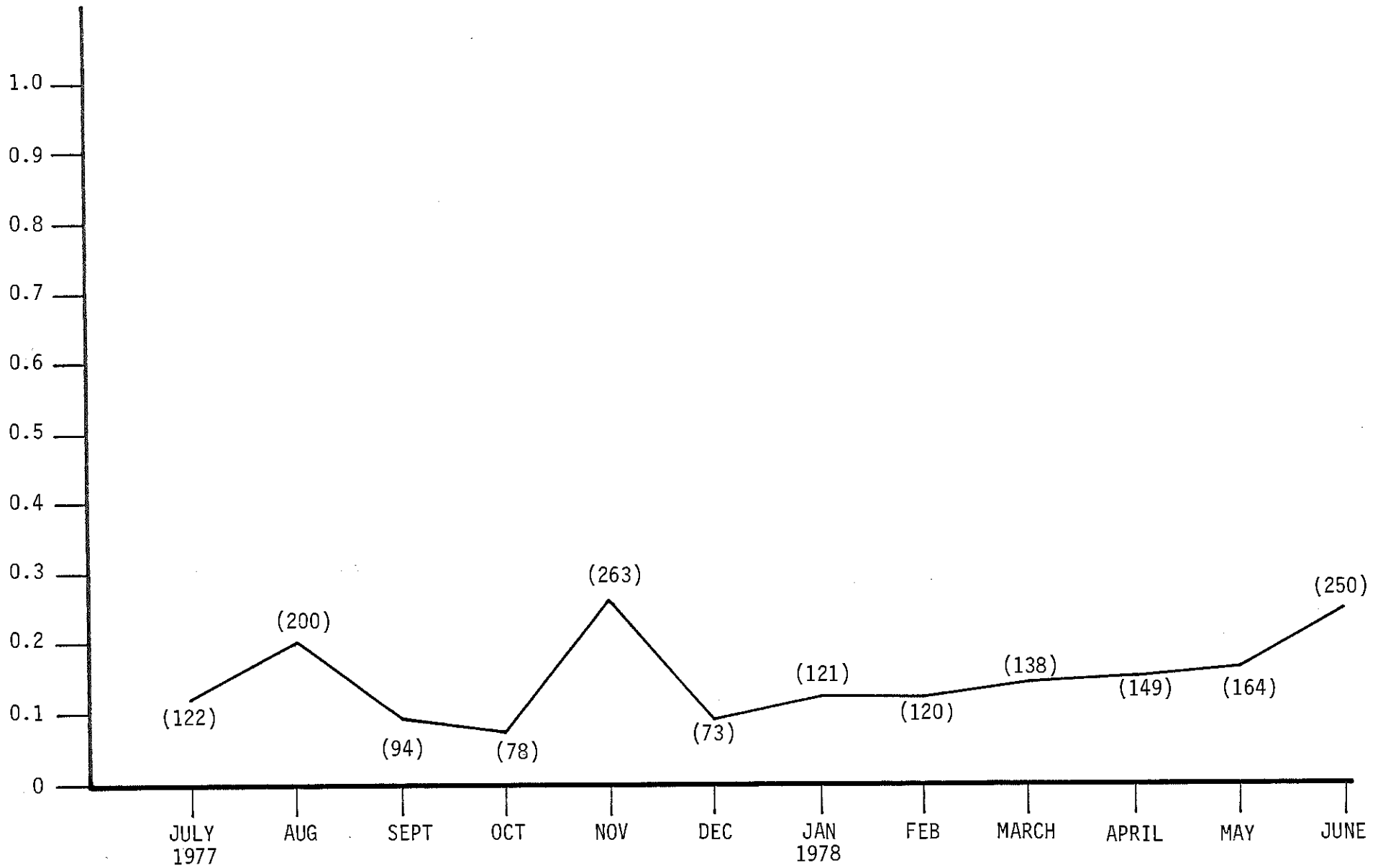
NORTH DAKOTA RYE SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)

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

NORTH DAKOTA RYE SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA RYE SHIPMENTS BY MONTH
July, 1977 - June, 1978

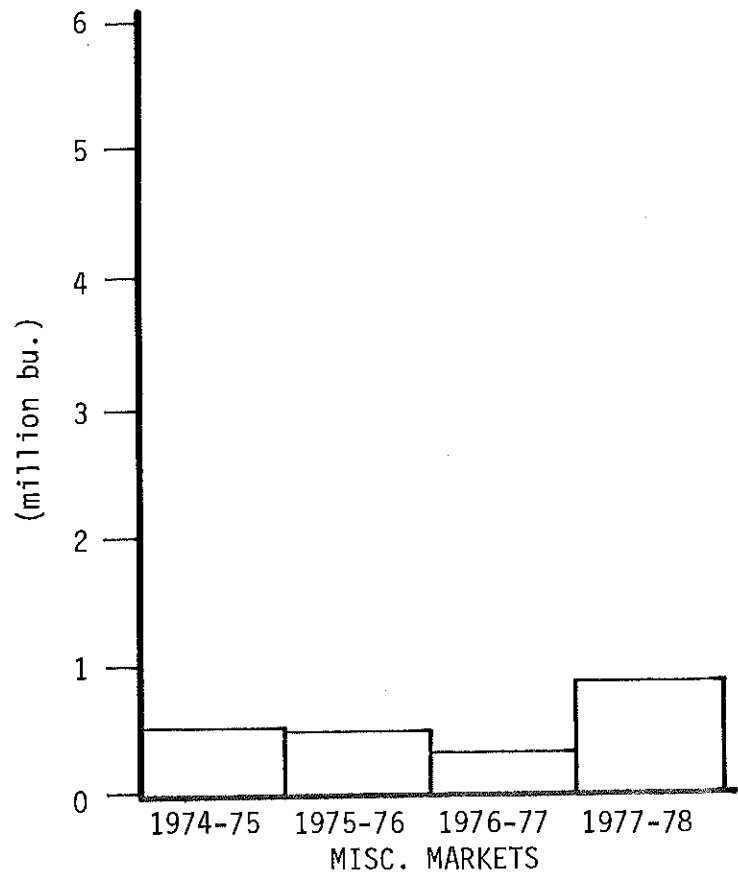
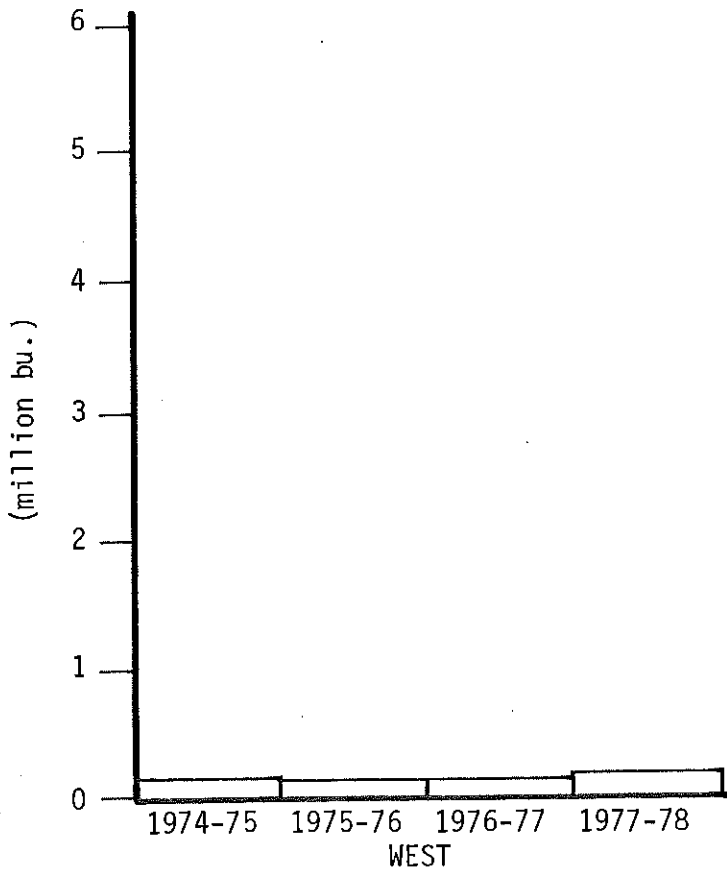
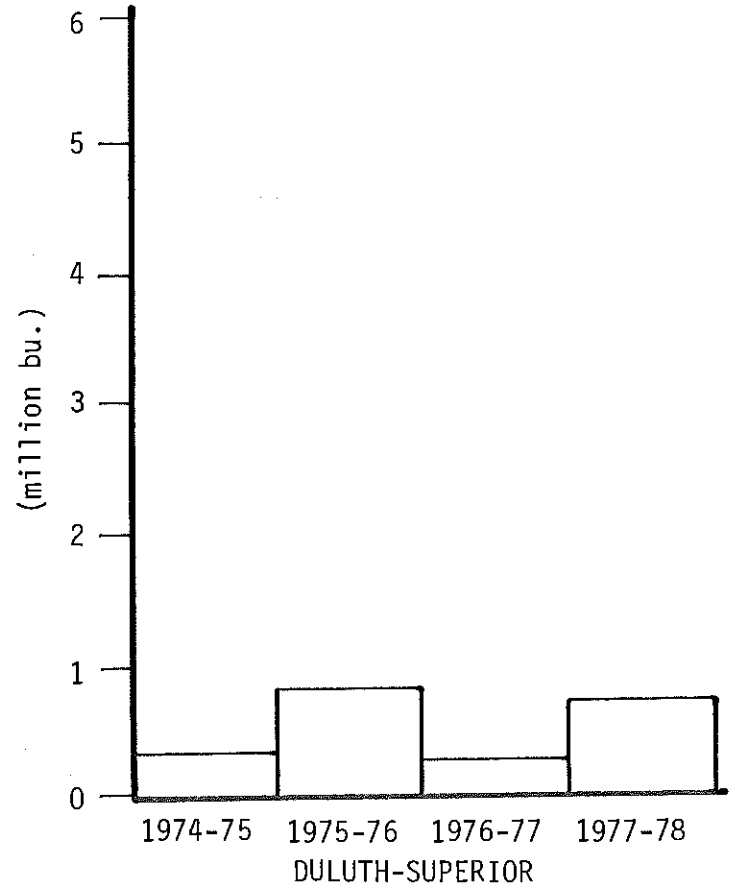
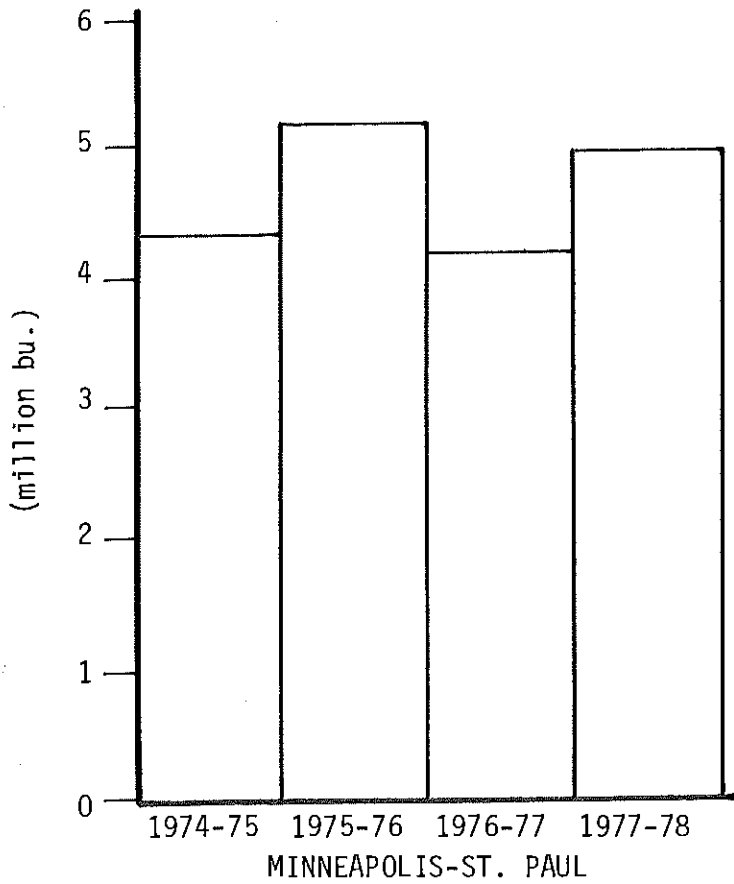


**FLAXSEED
MOVEMENTS**

NORTH DAKOTA FLAXSEED SHIPMENTS BY DESTINATION

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

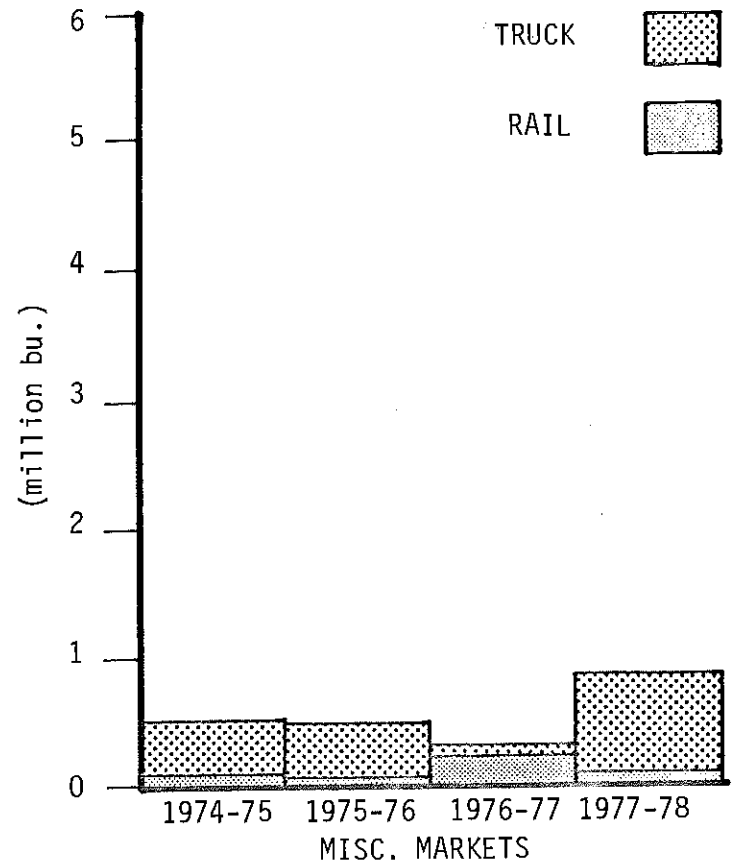
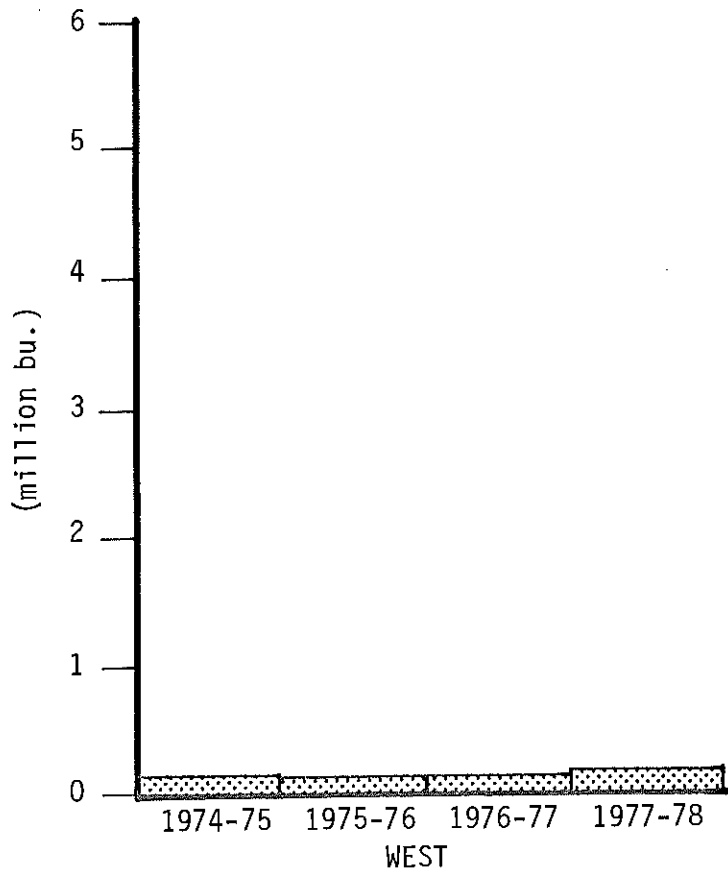
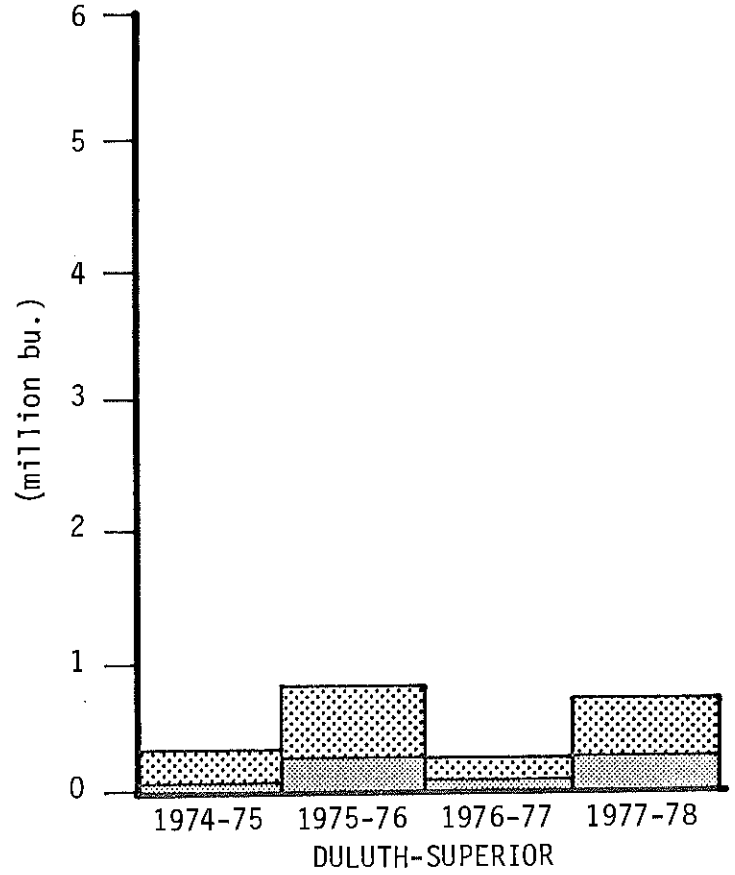
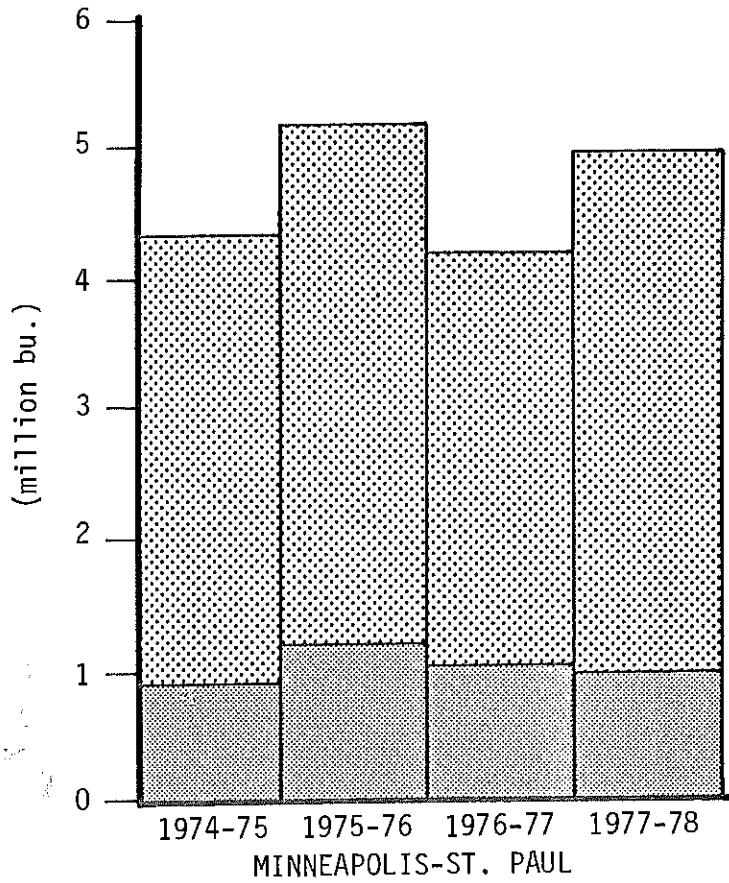
NORTH DAKOTA FLAXSEED SHIPMENTS
BY DESTINATION





NORTH DAKOTA FLAXSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78	
	Rail	Truck	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%)	987 (20%)	3,954 (80%)
DULUTH - SUPERIOR	55 (16%)	291 (84%)	317 (37%)	538 (63%)	102 (36%)	183 (64%)	226 (30%)	522 (70%)
WEST	0 (0%)	69 (100%)	0 (0%)	60 (100%)	0 (0%)	59 (100%)	0	72 (100%)
MISC. MARKETS	78 (15%)	453 (85%)	31 (6%)	474 (94%)	206 (74%)	74 (26%)	74 (18%)	339 (82%)
TOTAL	1,048 (20%)	4,252 (80%)	1,561 (24%)	5,029 (76%)	1,354 (28%)	3,530 (72%)	1,287 (21%)	4,887 (79%)

NORTH DAKOTA FLAXSEED SHIPMENTS
BY RAIL AND TRUCK AND DESTINATIONS

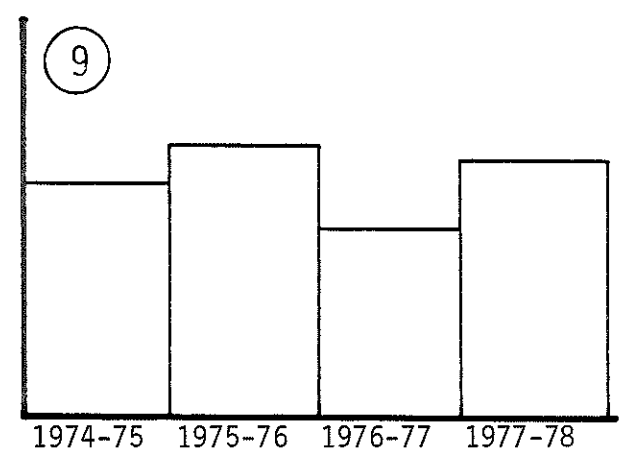
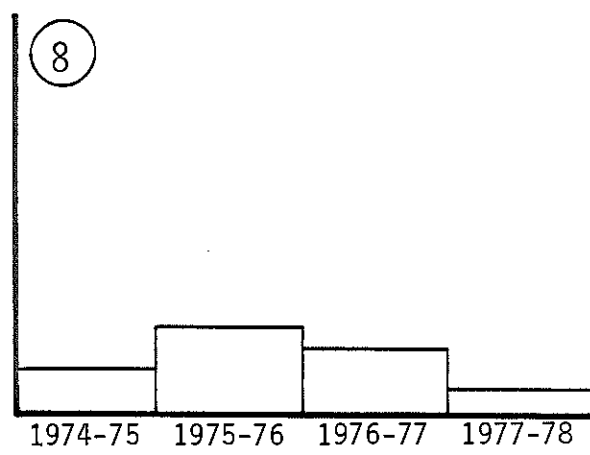
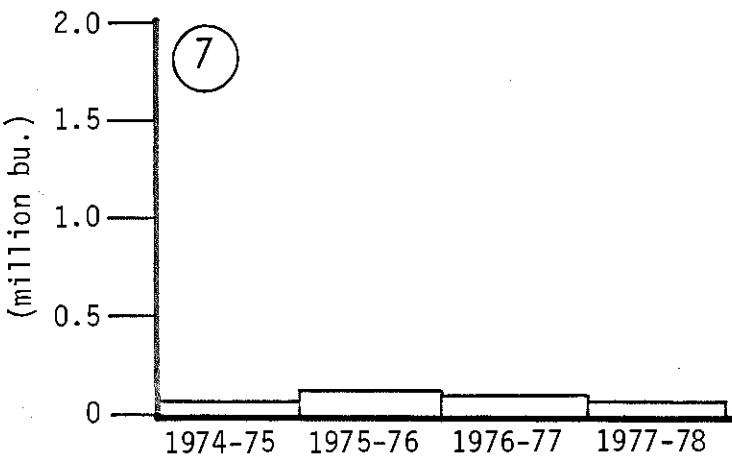
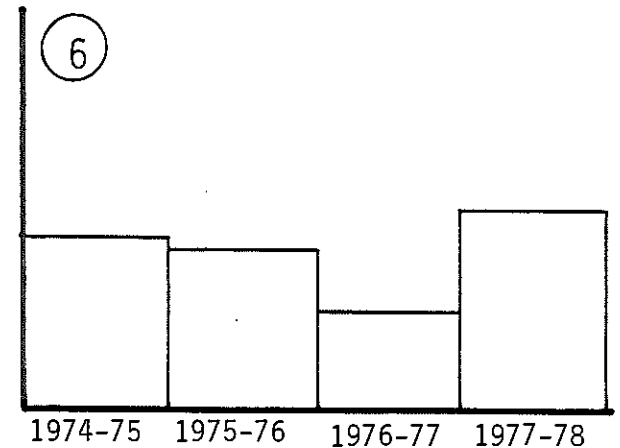
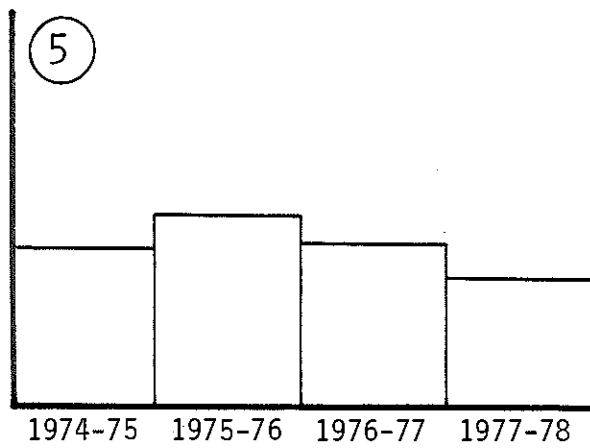
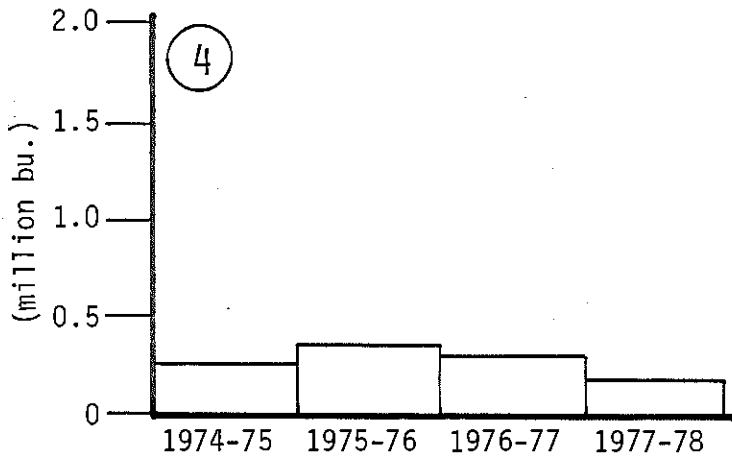
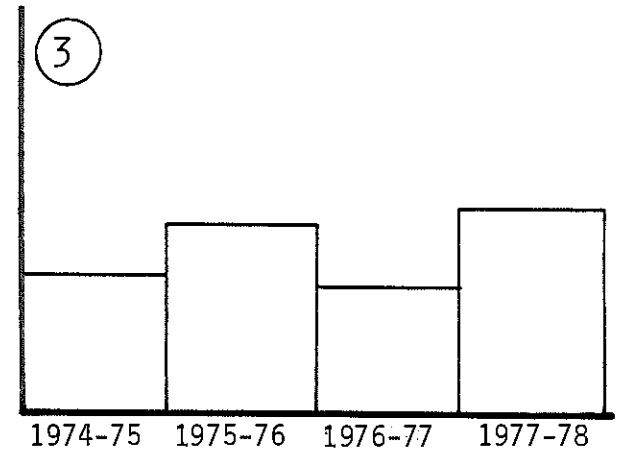
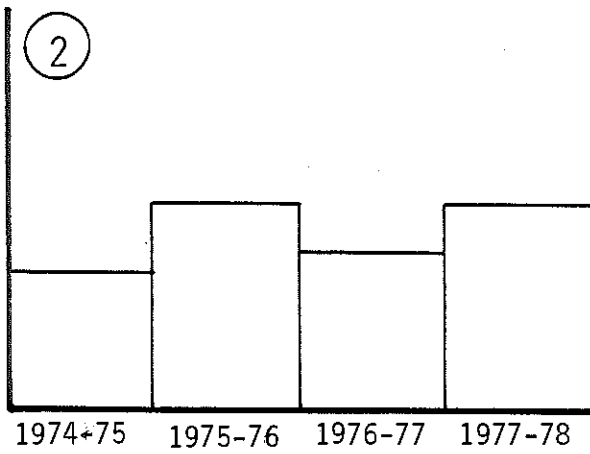
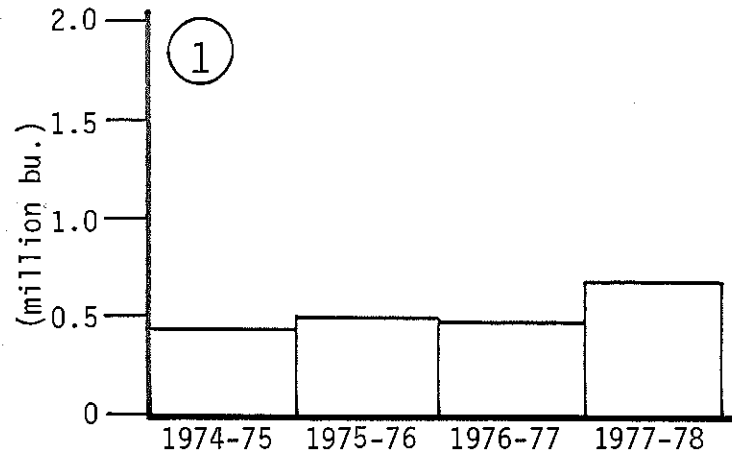


TRUCK 
RAIL 

NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)

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

NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN
(CROP REPORTING DISTRICT)



NORTH DAKOTA FLAXSEED SHIPMENTS BY MONTH
July, 1977 - June, 1978

