

**NORTH DAKOTA GRAIN AND OILSEED  
TRANSPORTATION STATISTICS  
1978-79**

**By**

**Gene C. Griffin**

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1978-79**

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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 1979**

## 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  
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 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, 1978 to June, 1979.

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, 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.

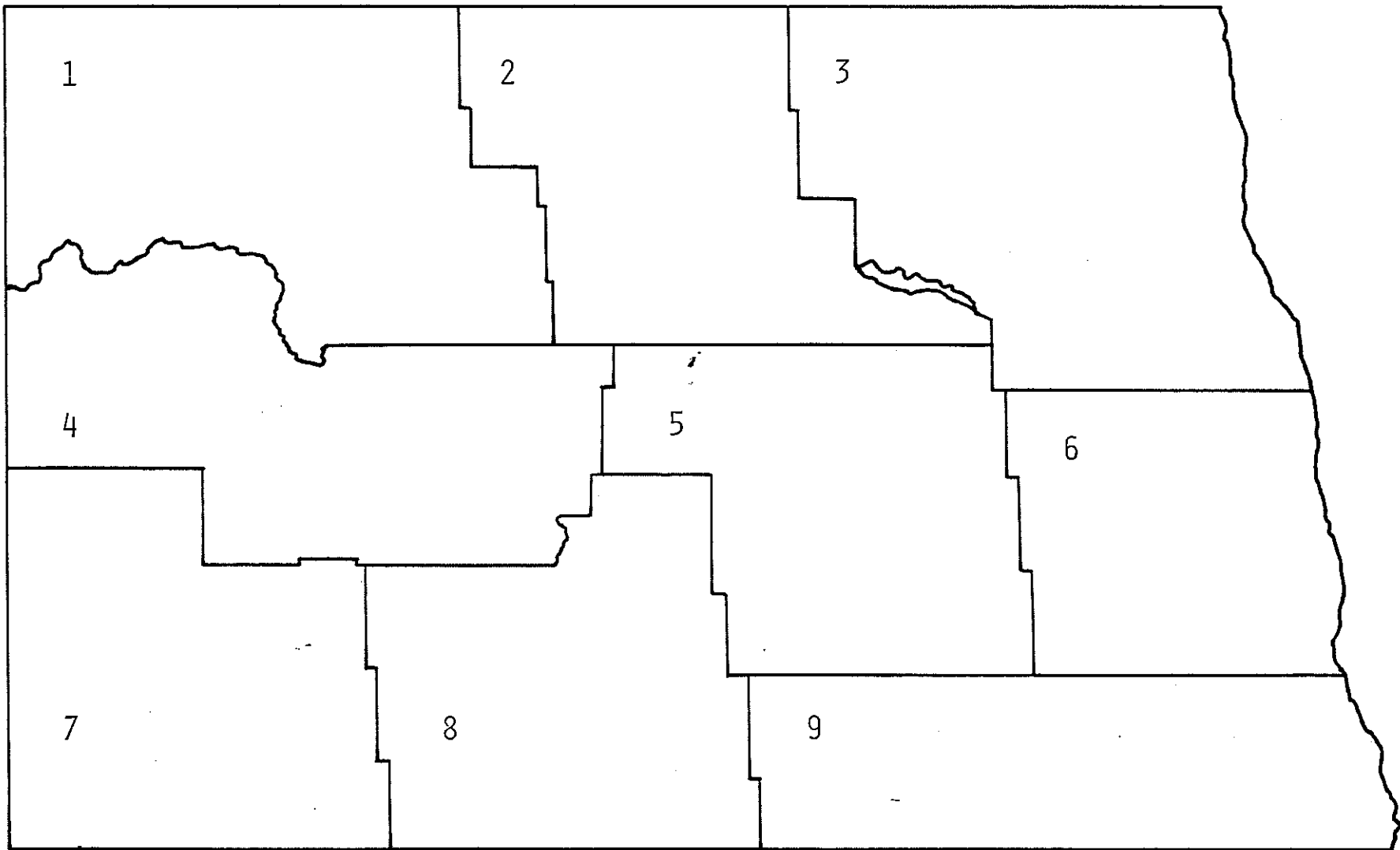


FIGURE 1. NORTH DAKOTA CROP REPORTING DISTRICTS

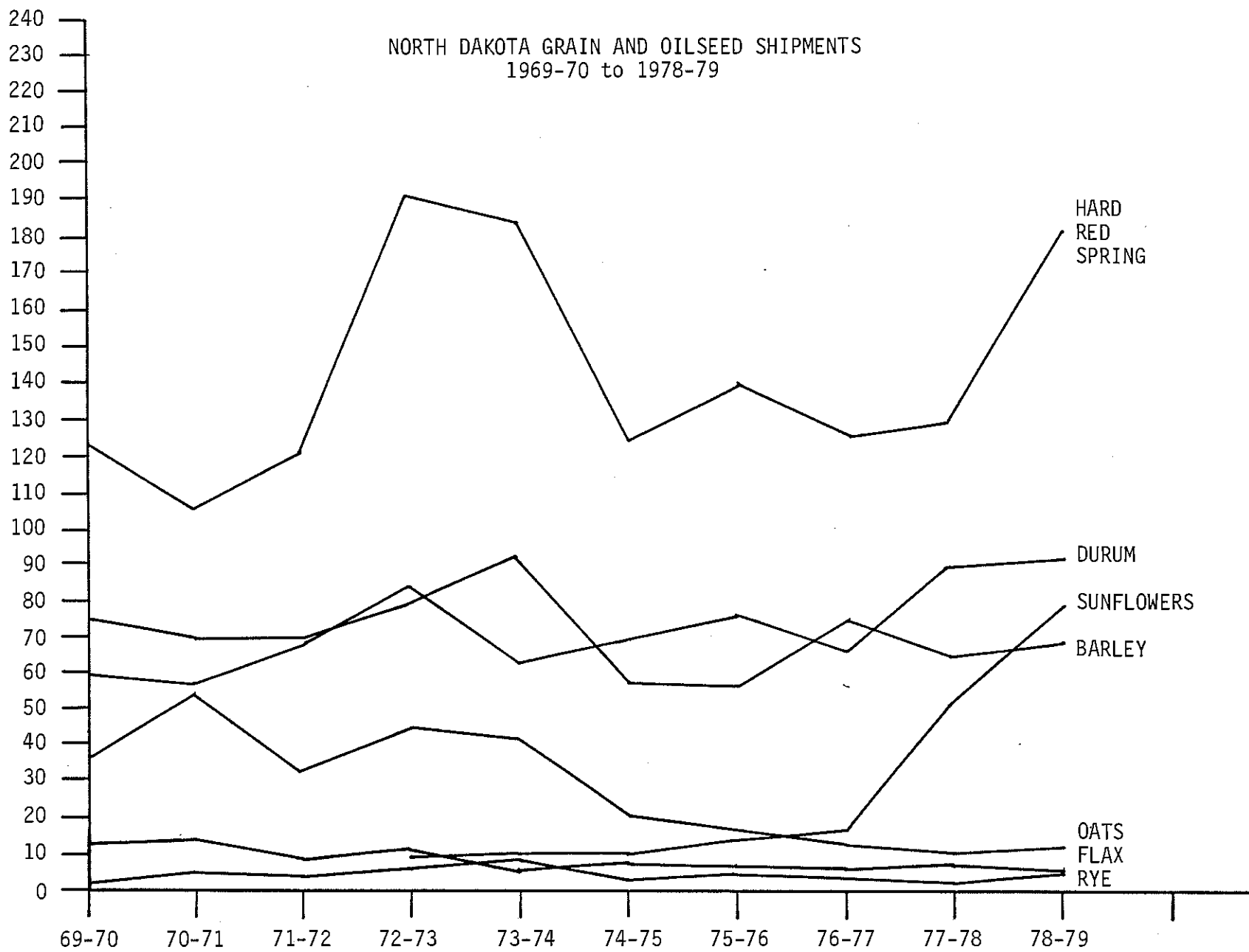
### Organization of the Remainder of the Report

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  
1969-70 to 1978-79



NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS<sup>a</sup>  
1969-70 to 1978-79

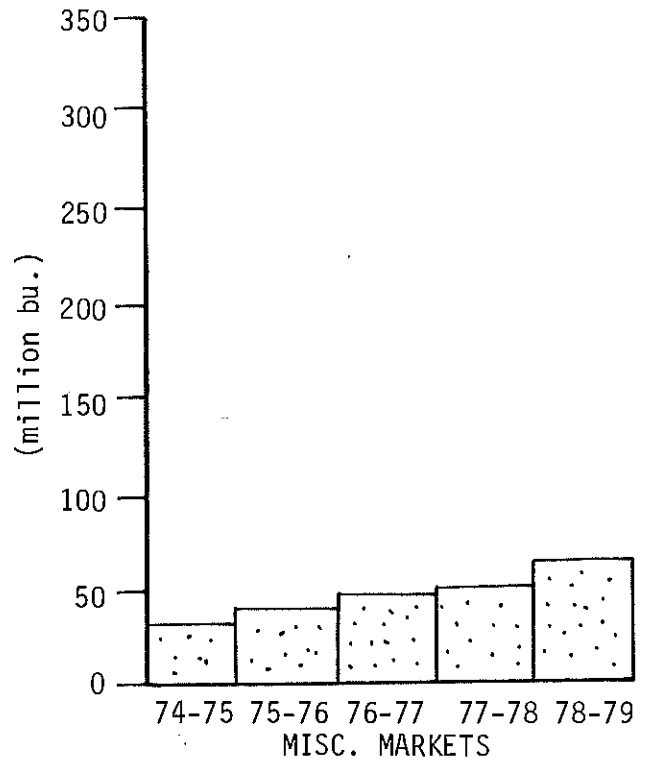
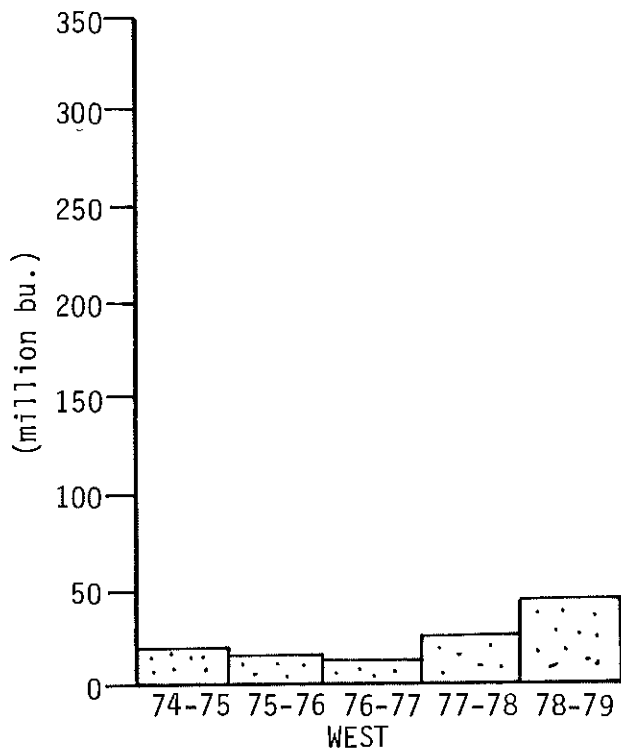
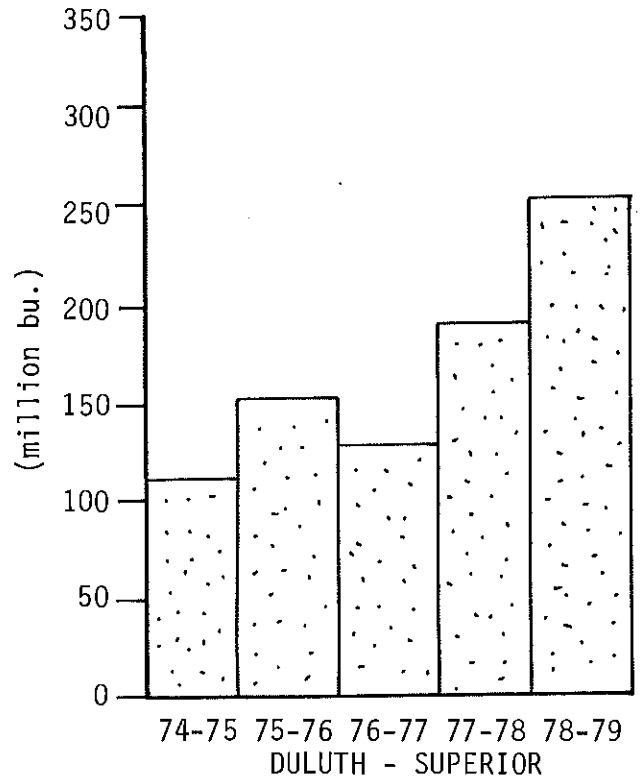
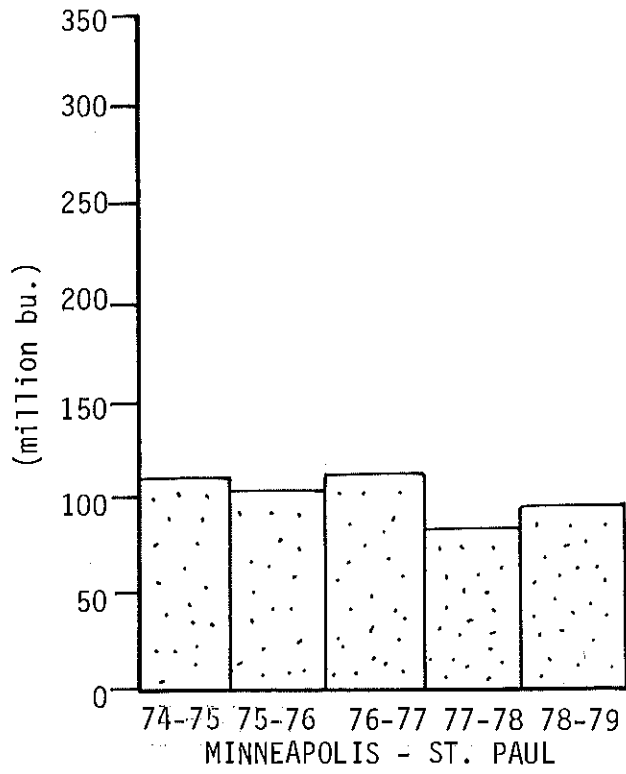
	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand bu.)									
HARD RED SPRING	120,330 (39%)	105,800 (35%)	119,944 (40%)	191,696 (44%)	183,567 (45%)	122,934 (42%)	139,361 (44%)	123,976 (41%)	127,953 (36%)	184,923 (41%)
DURUM	58,540 (19%)	57,317 (19%)	66,184 (22%)	83,351 (19%)	60,758 (15%)	68,781 (24%)	74,817 (23%)	65,024 (21%)	88,366 (25%)	88,659 (19%)
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%)	69,648 (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 (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%)	2,811 (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%)	4,541 (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 (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%)	456,234 (100%)

<sup>a</sup>Includes 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 (39%)	104,900 (33%)	109,620 (36%)	85,231 (24%)	93,353 (20%)
DULUTH-SUPERIOR	109,585 (40%)	152,514 (48%)	128,044 (42%)	192,925 (54%)	250,653 (55%)
WEST	23,827 (9%)	22,031 (7%)	20,823 (7%)	29,031 (8%)	46,413 (10%)
MISCELLANEOUS MARKETS	33,982 (12%)	40,840 (13%)	47,425 (16%)	51,417 (14%)	65,814 (14%)
TOTAL	275,487 (100%)	320,285 (100%)	305,912 (100%)	358,604 (100%)	456,233 (100%)

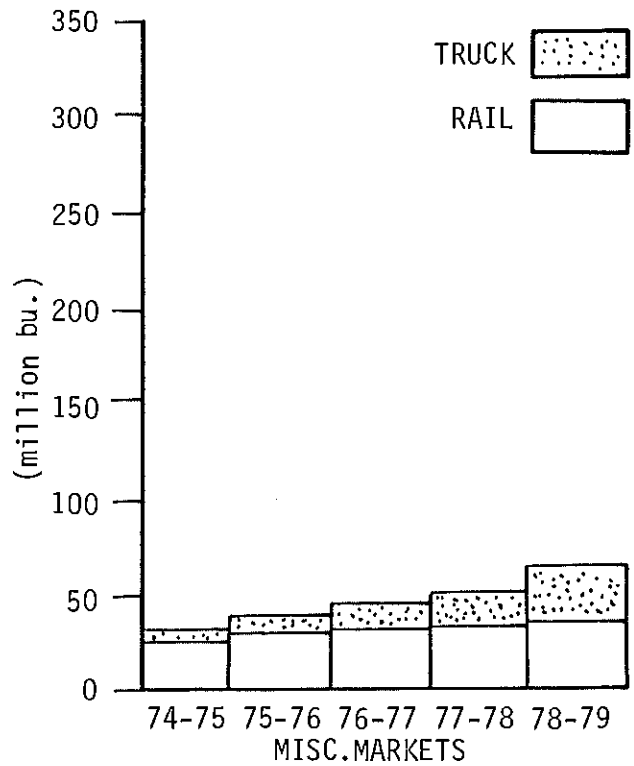
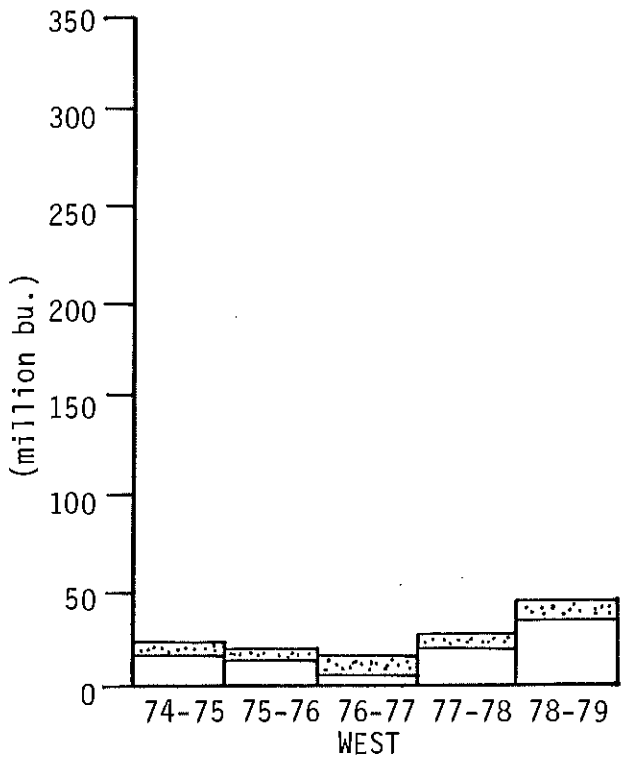
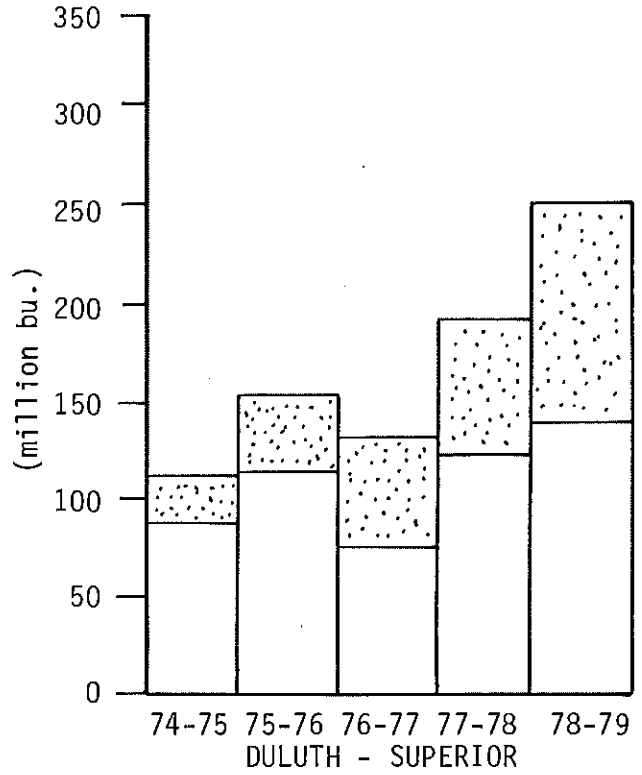
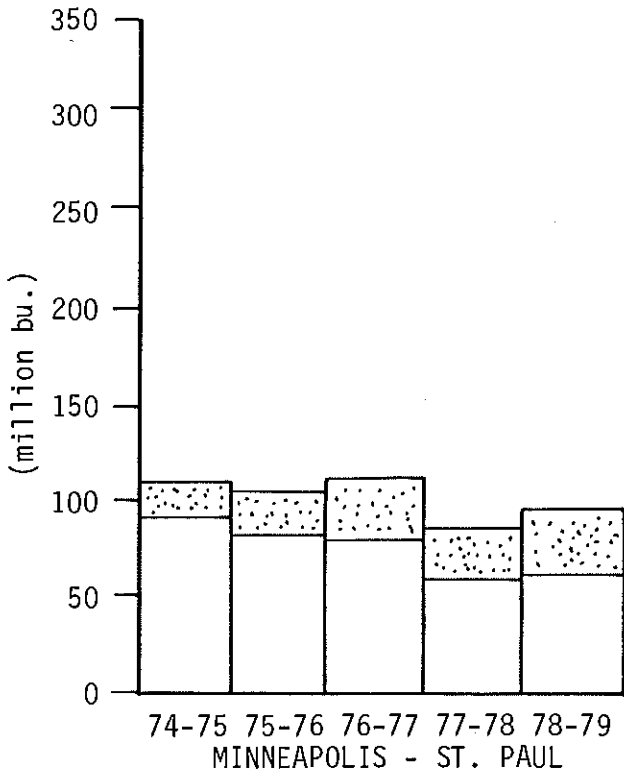
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY DESTINATION  
1974-75 to 1978-79



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

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79	
	RAIL	TRUCK	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%)	61,186 (66%)	32,168 (34%)
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%)	140,112 (56%)	110,541 (44%)
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%)	33,461 (72%)	12,952 (28%)
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%)	36,310 (55%)	29,504 (45%)
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%)	271,069 (59%)	185,165 (41%)

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



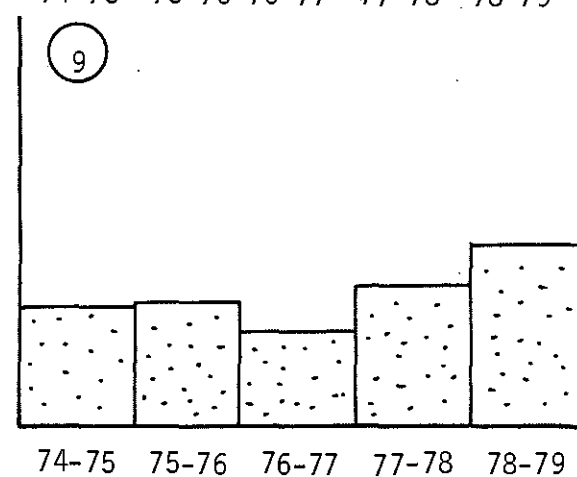
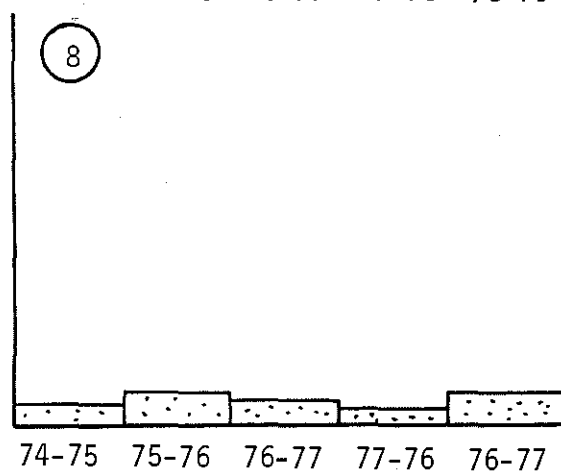
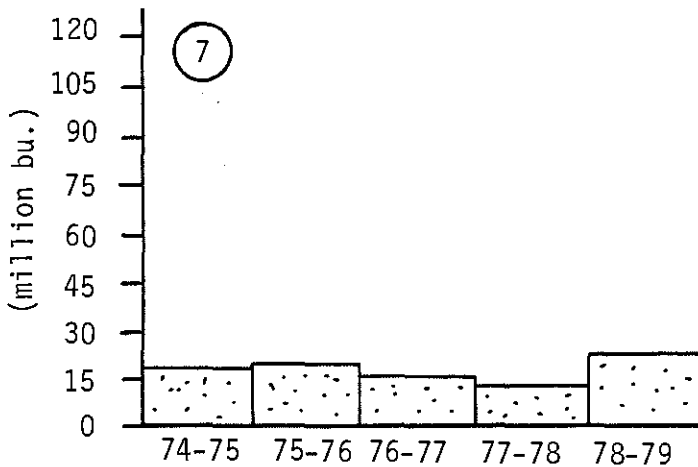
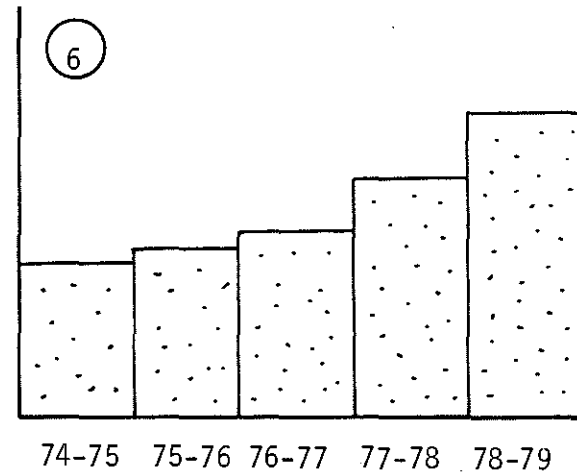
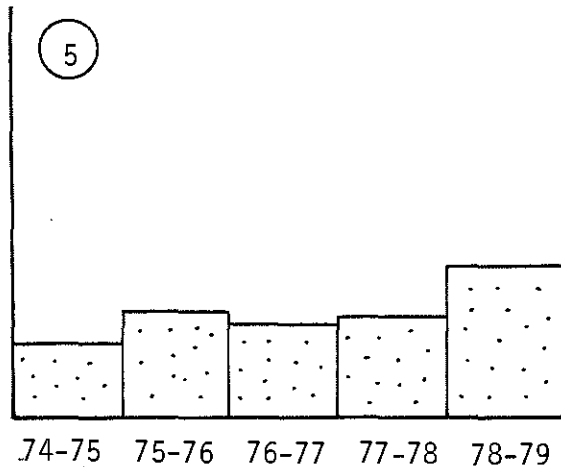
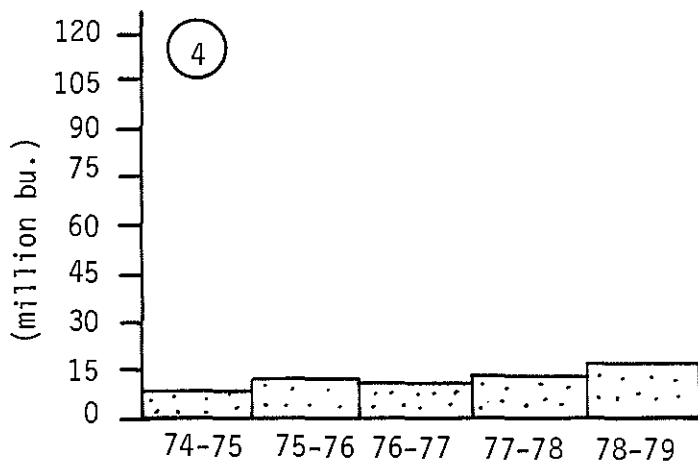
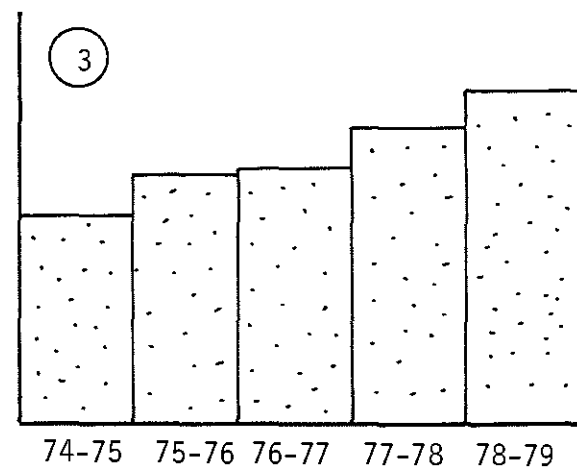
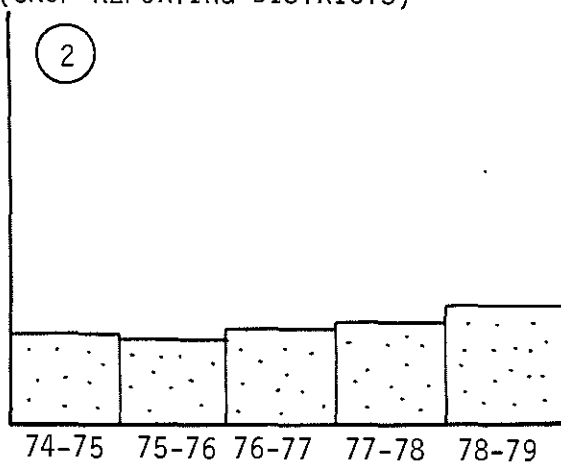
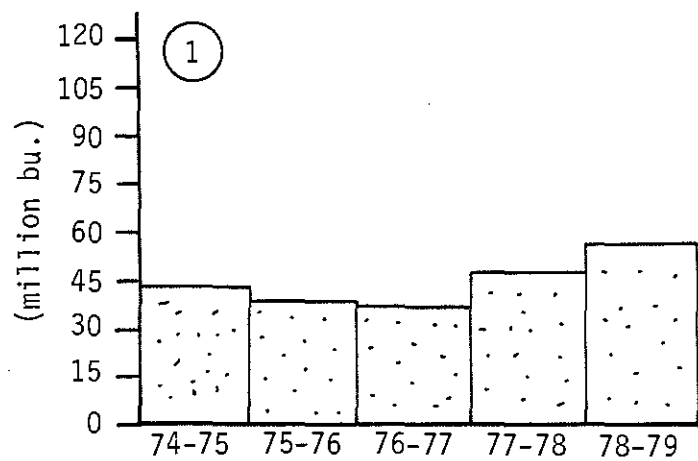
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)<sup>a</sup>

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

<sup>a</sup>Includes hard red spring, durum, sunflowers, barley, oats, rye, flax, and miscellaneous commodities.



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

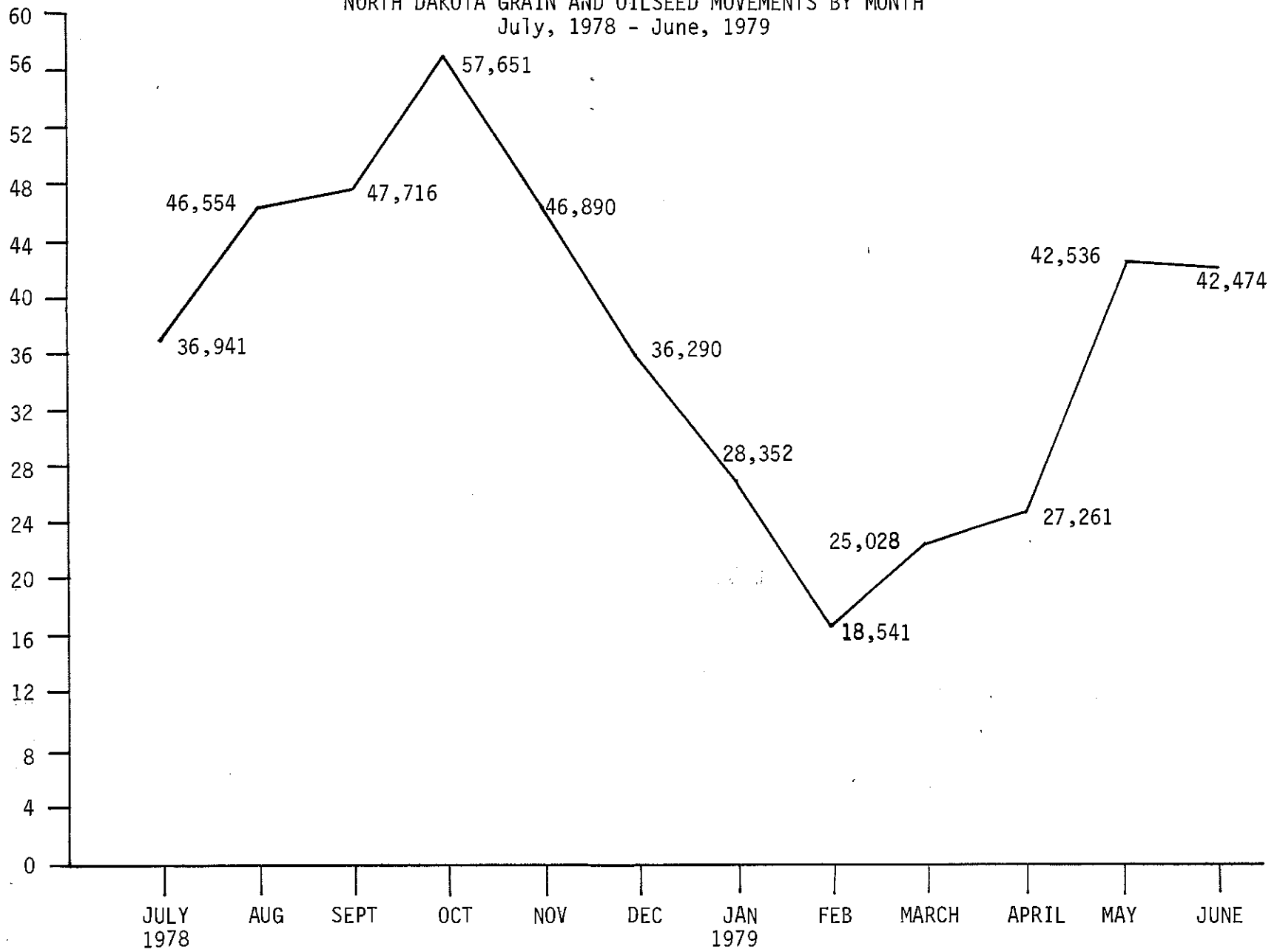


NORTH DAKOTA GRAIN AND OILSEED MOVEMENT BY MONTH

July 1978 - June 1979

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

NORTH DAKOTA GRAIN AND OILSEED MOVEMENTS BY MONTH  
July, 1978 - June, 1979

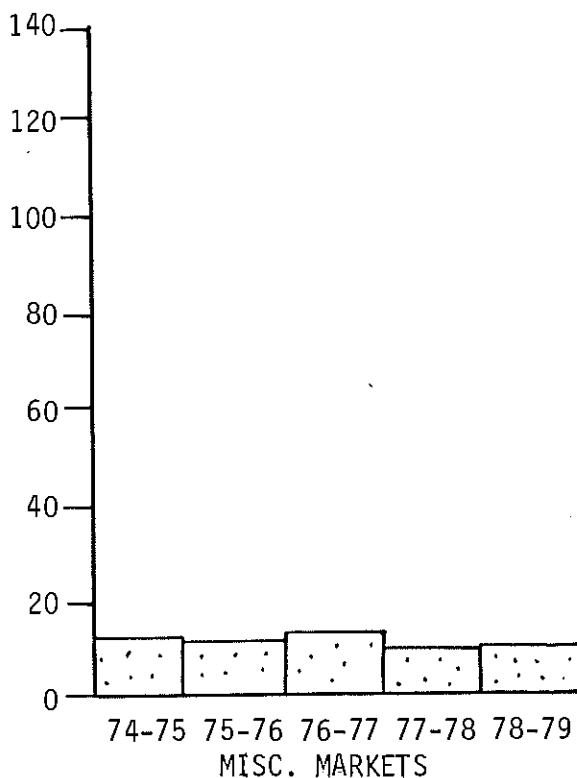
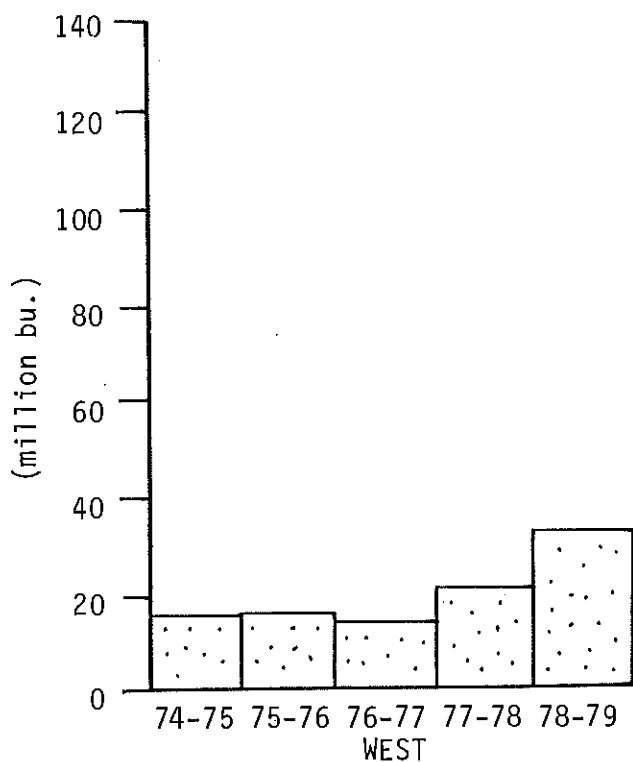
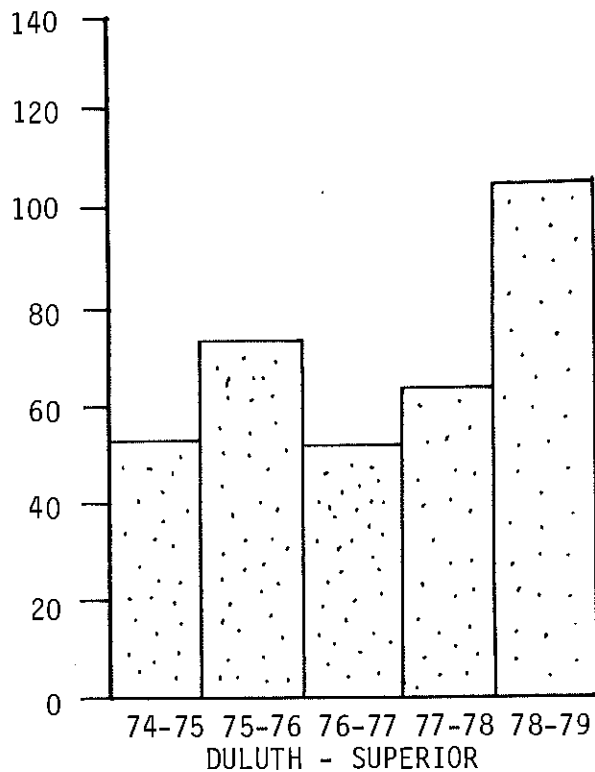
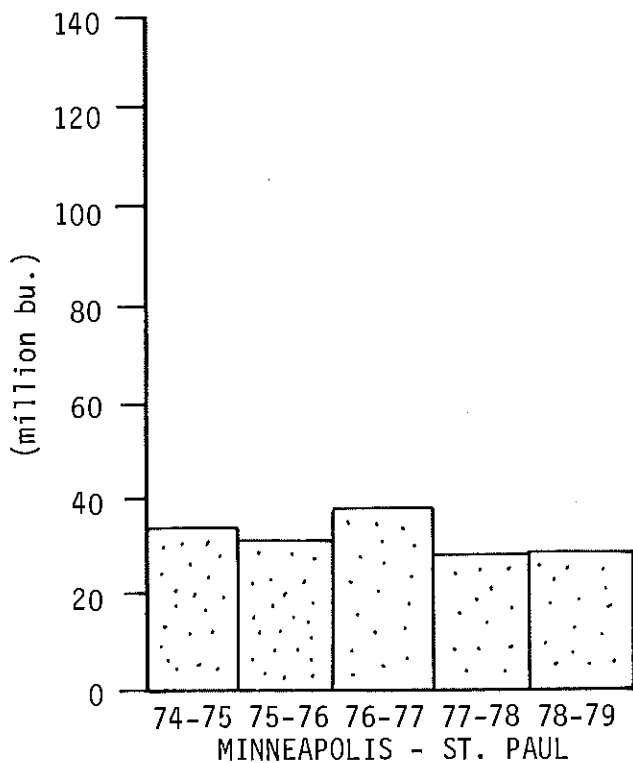


**HARD RED SPRING  
WHEAT MOVEMENTS**

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%)

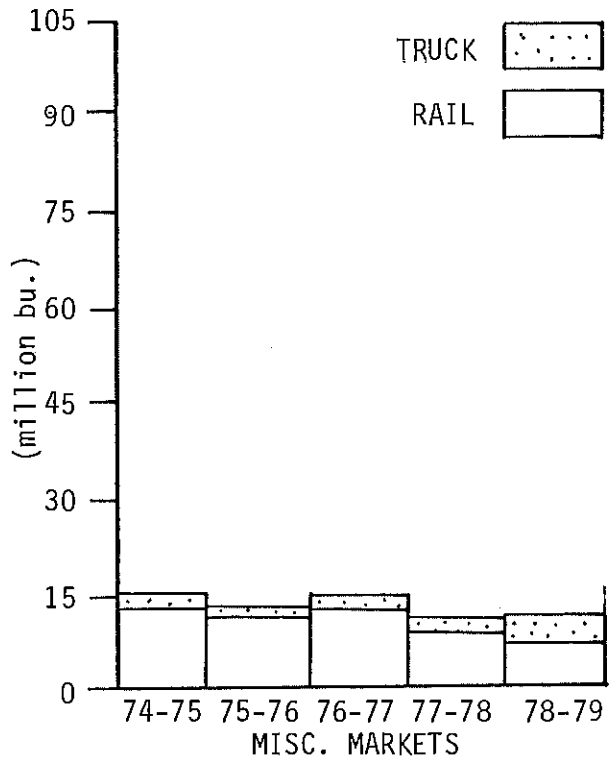
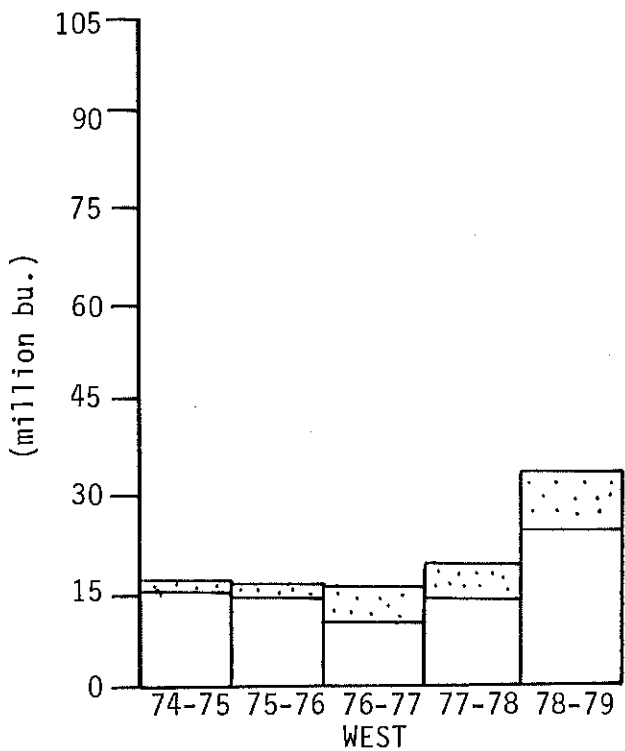
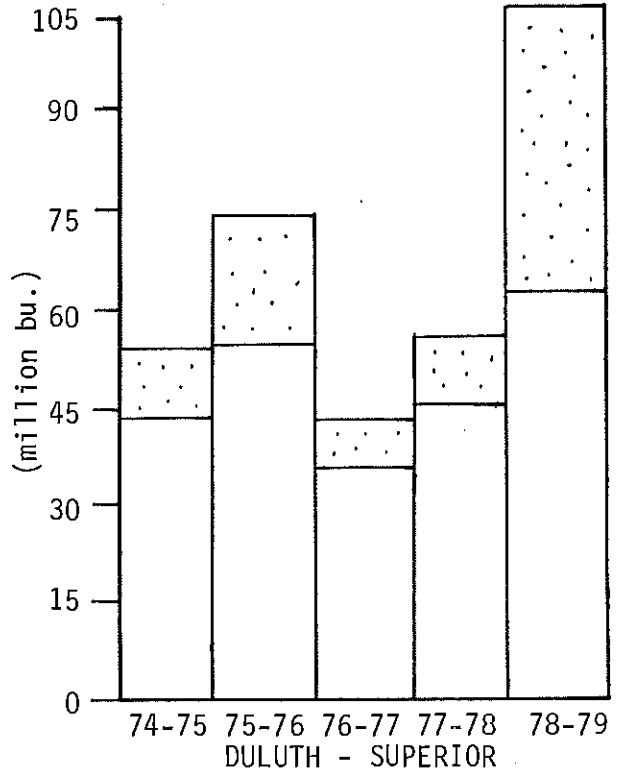
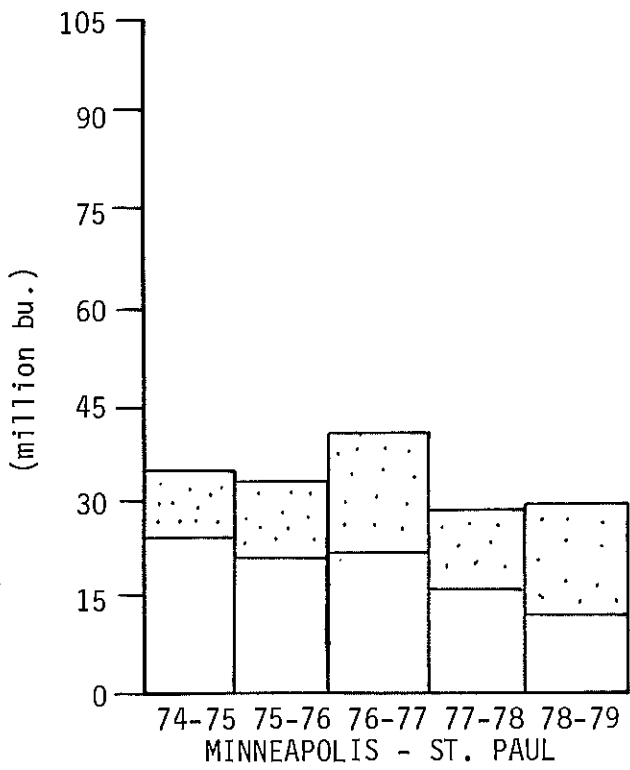
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY DESTINATION



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

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79	
	Rail	Truck	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%)	12,762 (44%)	16,084 (56%)
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%)	64,230 (59%)	44,487 (41%)
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%)	24,389 (70%)	10,429 (30%)
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%)	7,429 (59%)	5,114 (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

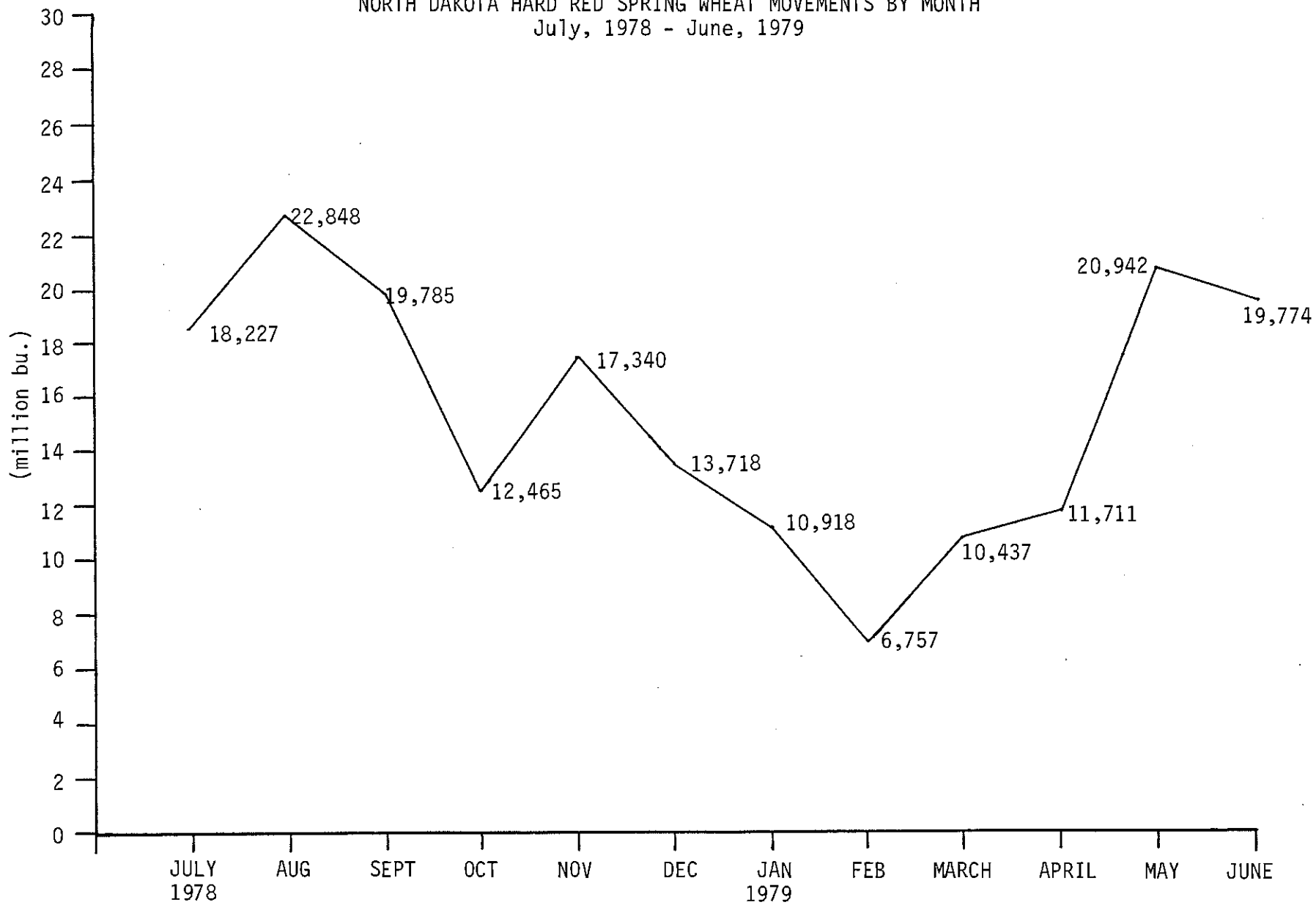




NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand 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

NORTH DAKOTA HARD RED SPRING WHEAT MOVEMENTS BY MONTH  
July, 1978 - June, 1979

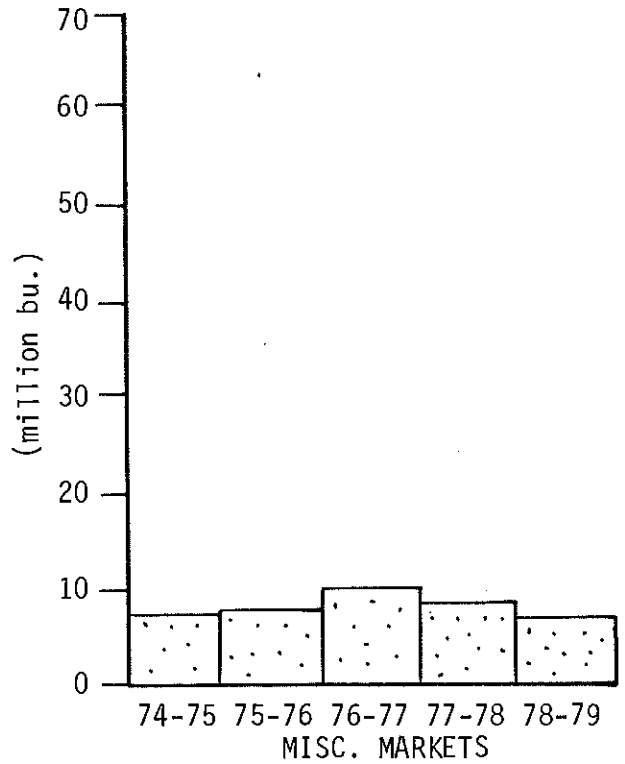
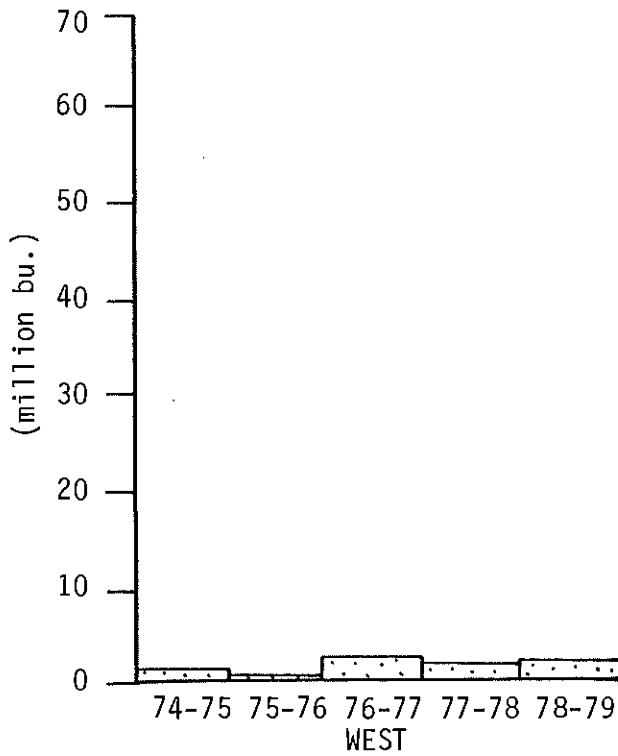
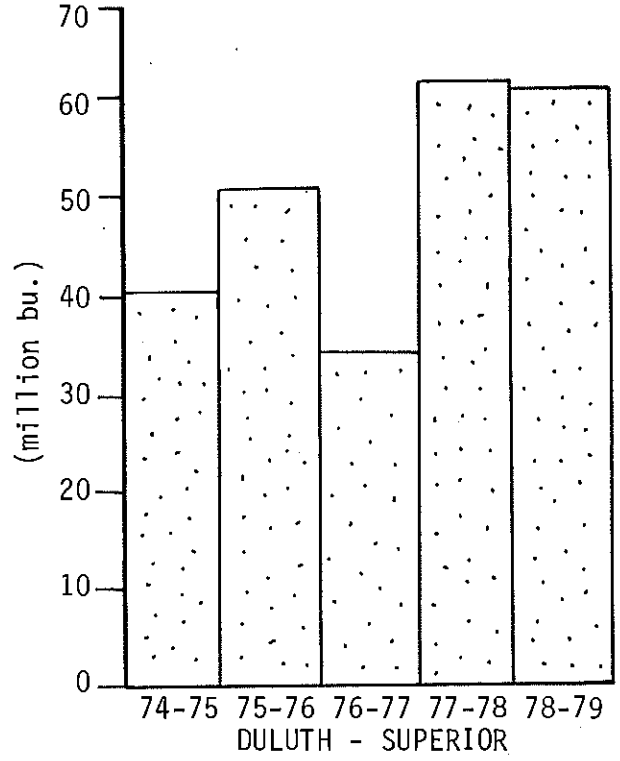
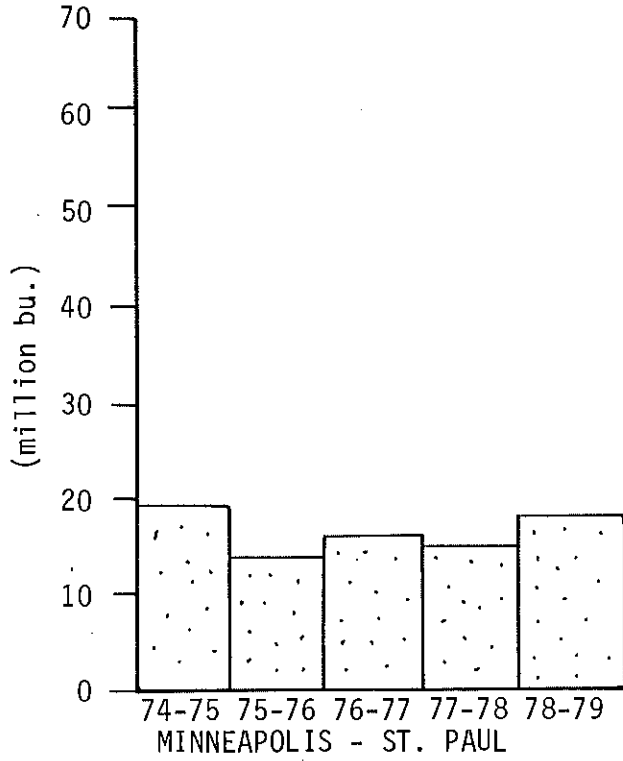


**DURUM WHEAT  
MOVEMENTS**

NORTH DAKOTA DURUM SHIPMENTS  
BY DESTINATION

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

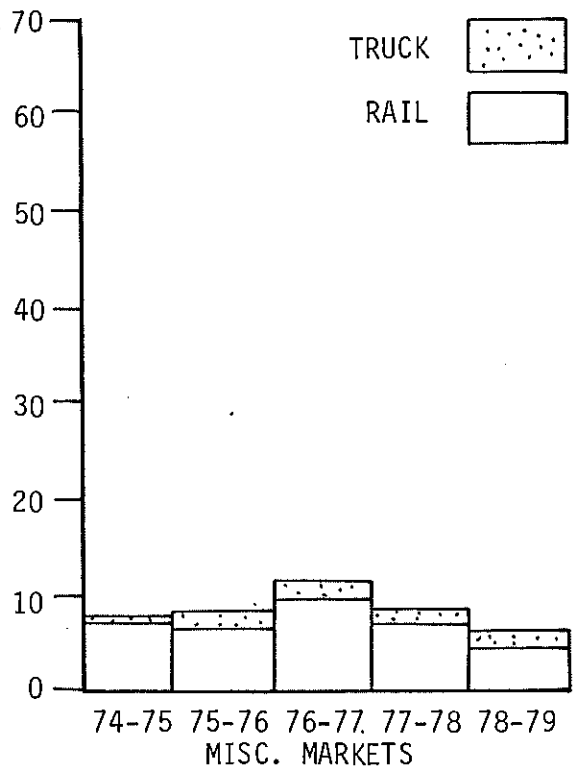
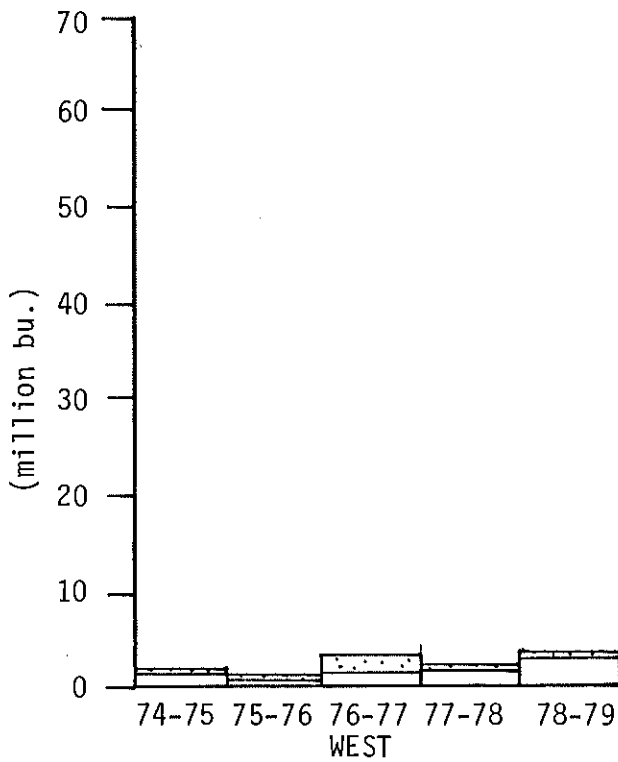
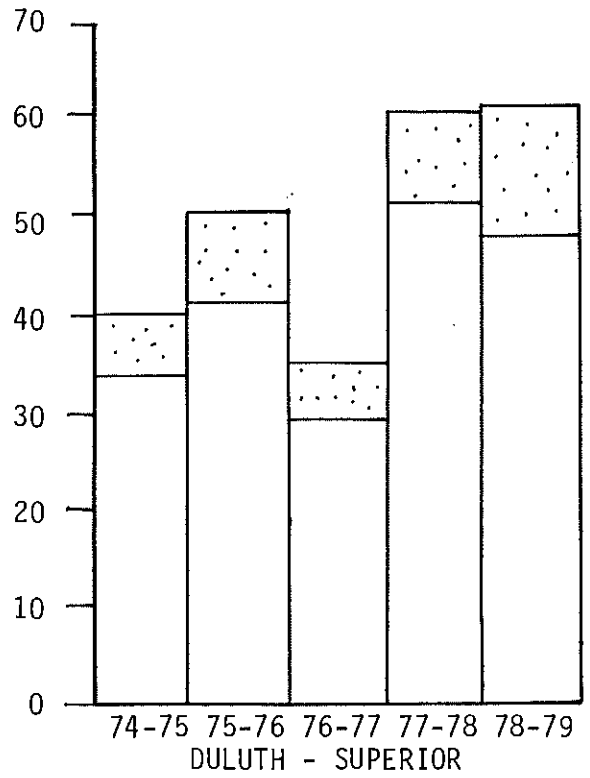
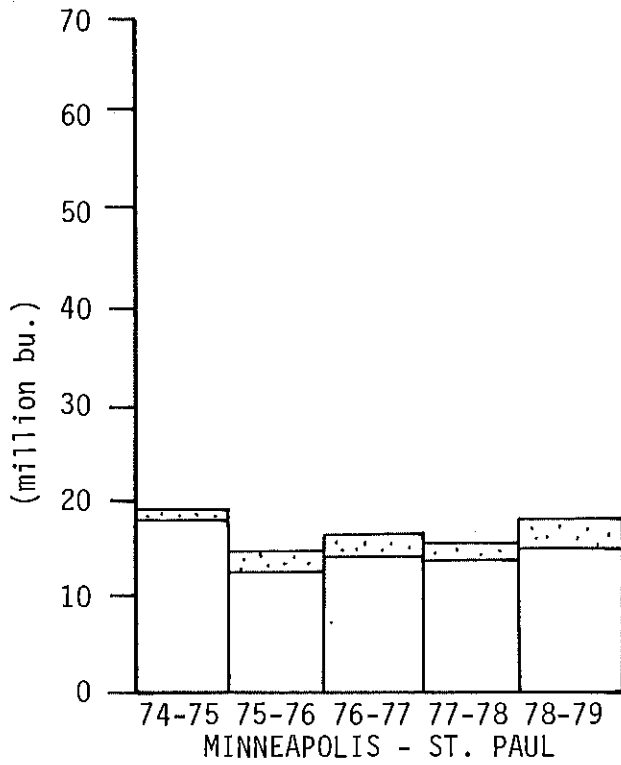
NORTH DAKOTA DURUM SHIPMENTS  
BY DESTINATION



NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79	
	Rail	Truck	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%)	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%)
MISC. MARKETS	7,505 (97%)	246 (3%)	7,184 (91%)	741 (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%)	54,573 (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

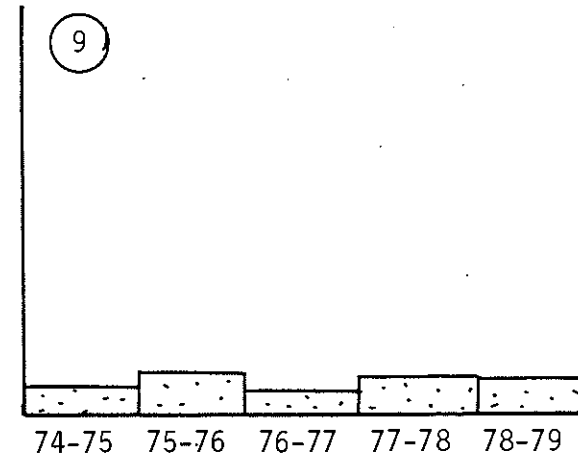
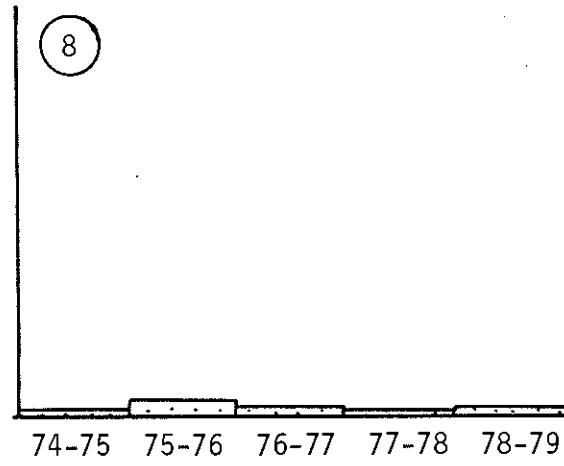
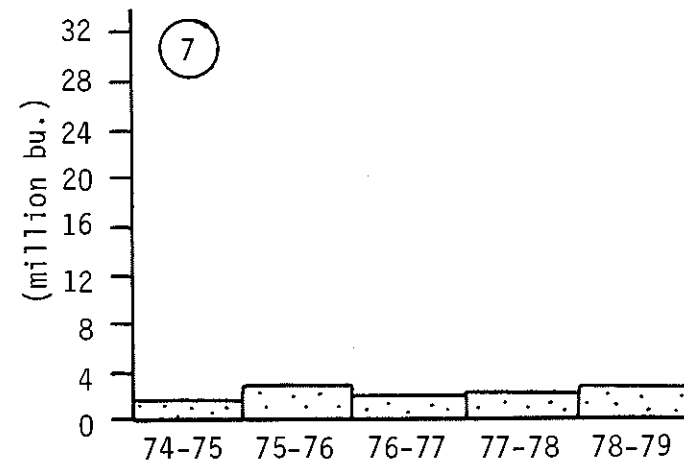
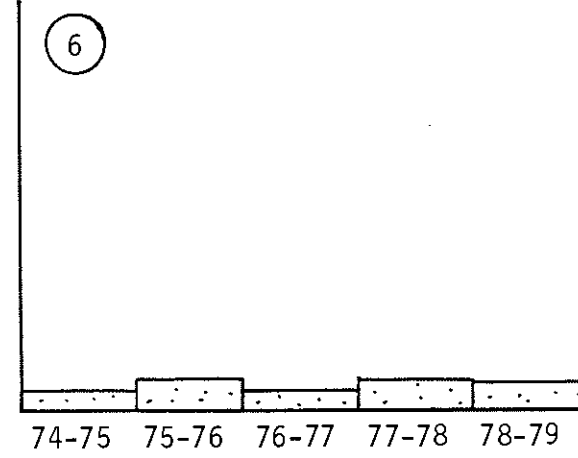
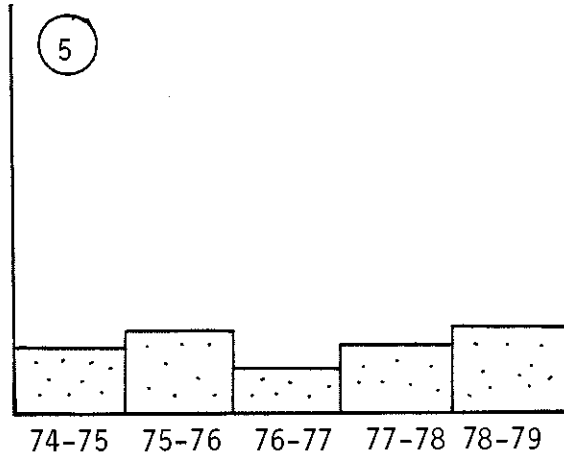
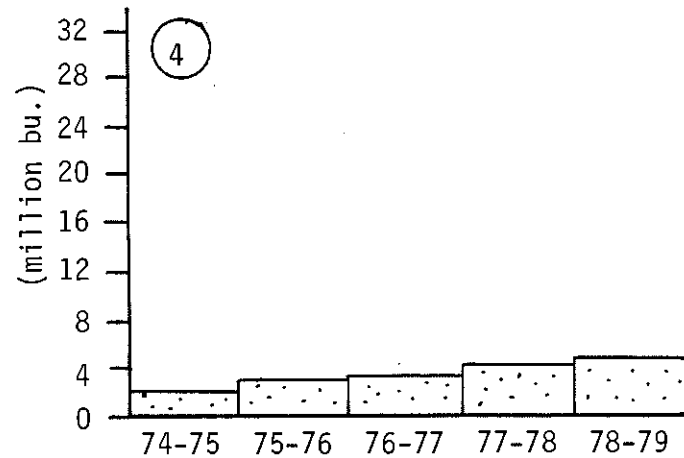
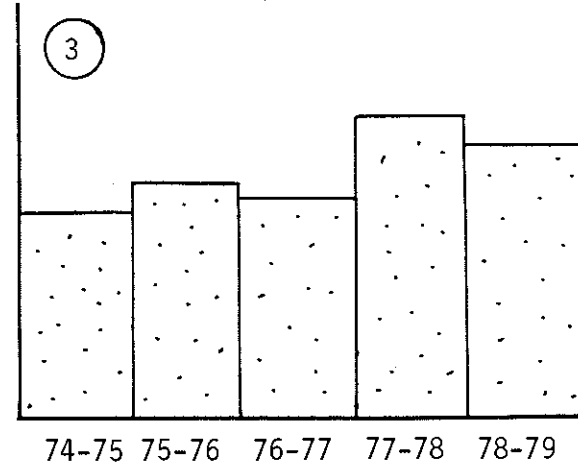
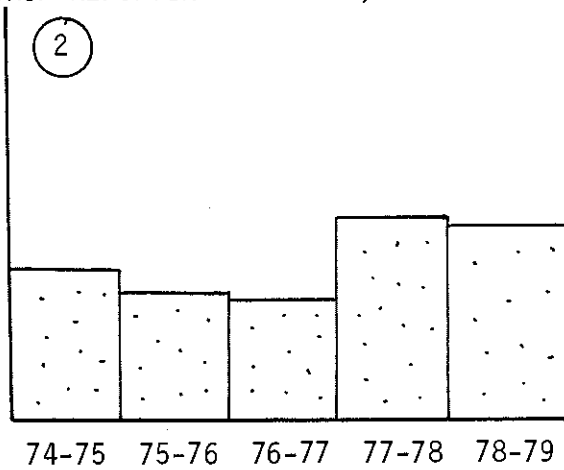
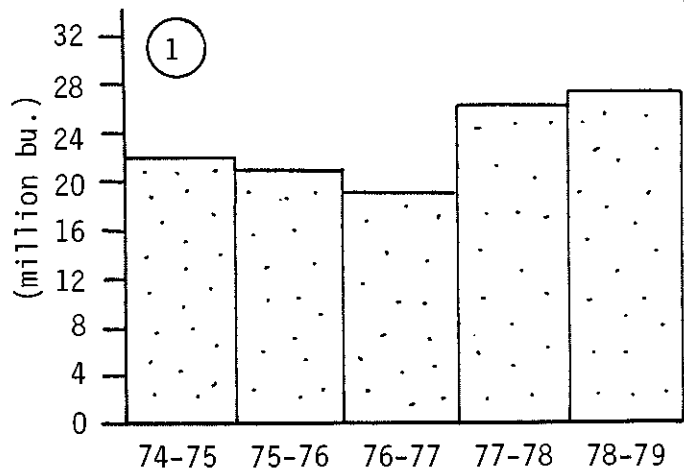


NORTH DAKOTA DURUM SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

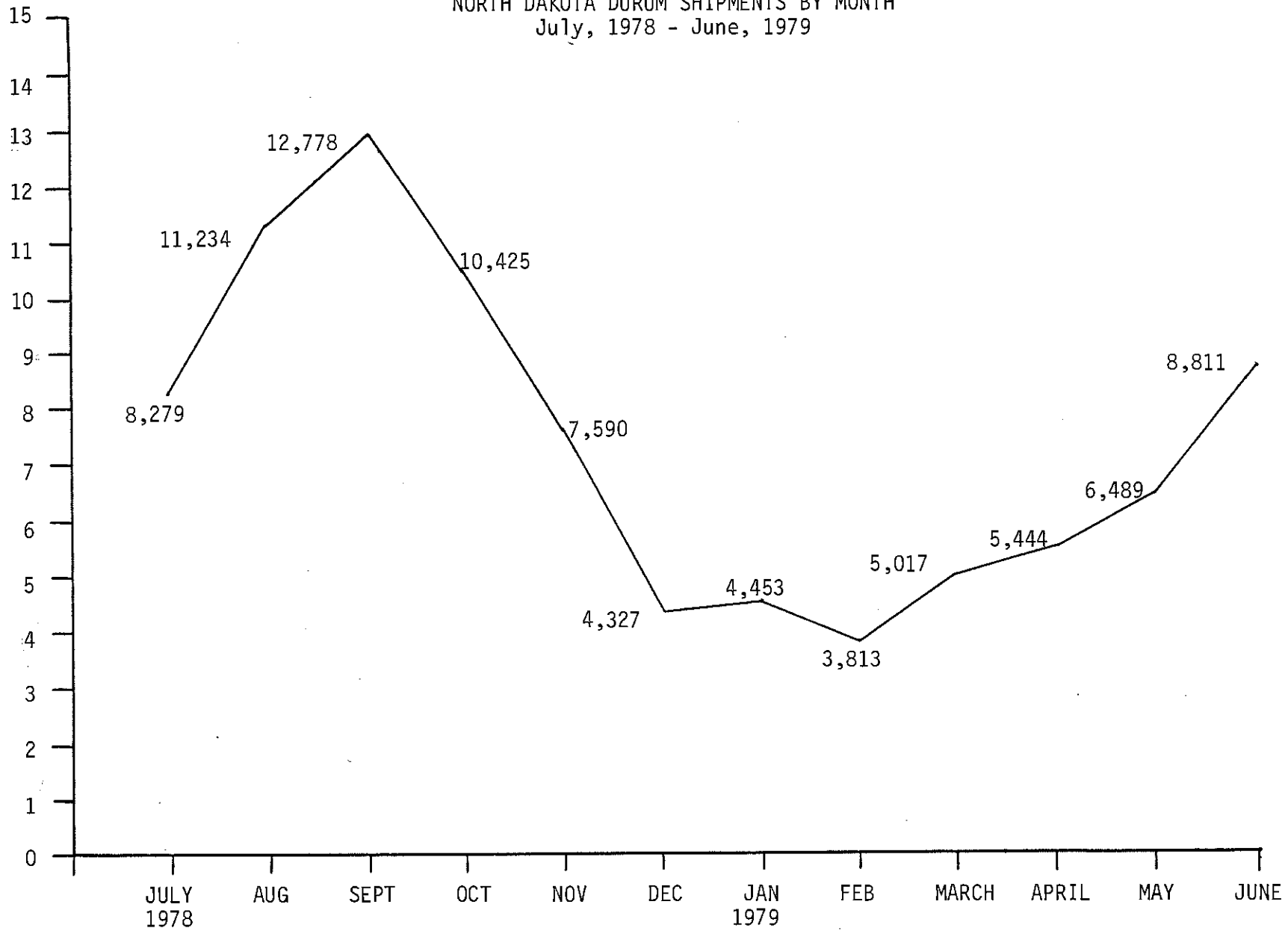
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand bu.)				
1	22,973	21,573	19,420	26,813	27,496
2	12,685	11,404	11,279	16,378	16,256
3	17,326	19,272	18,168	25,707	22,902
4	2,717	3,696	3,728	4,449	4,808
5	5,466	7,270	4,960	5,945	7,269
6	2,555	3,558	2,573	3,269	3,251
7	1,871	2,844	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



NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)



NORTH DAKOTA DURUM SHIPMENTS BY MONTH  
July, 1978 - June, 1979

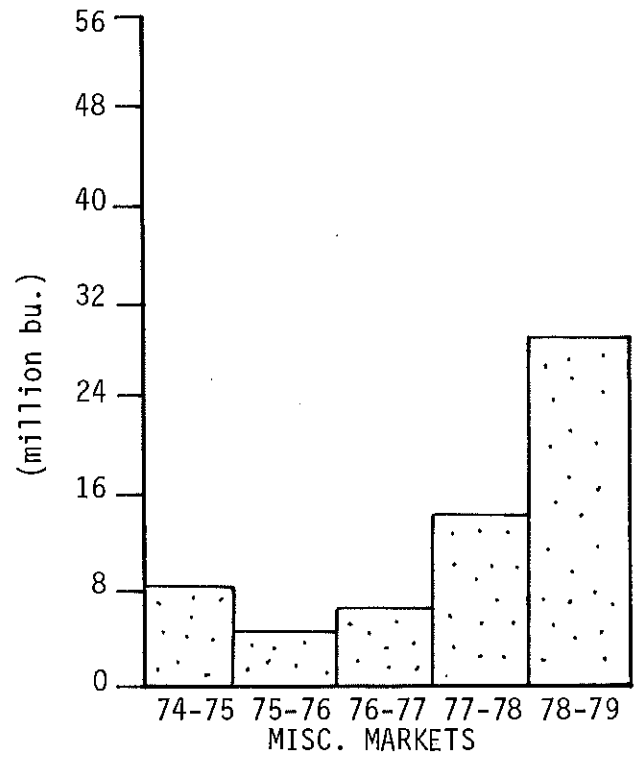
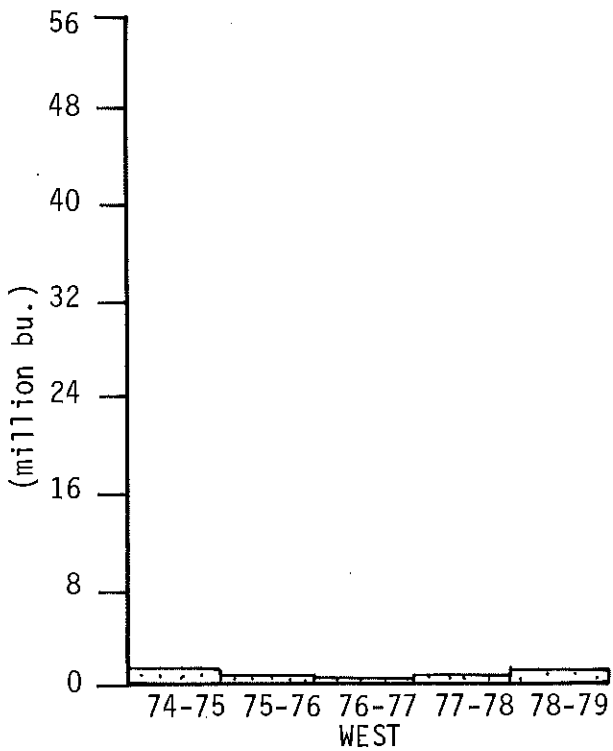
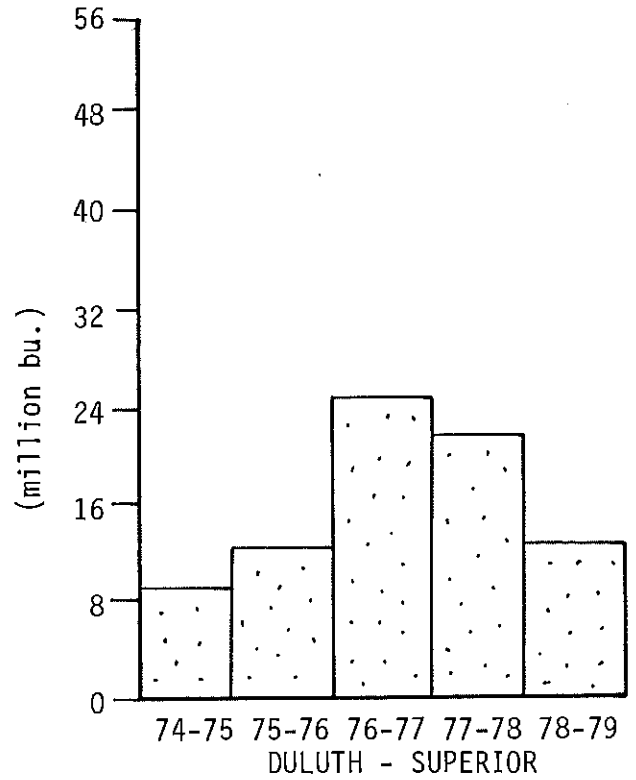
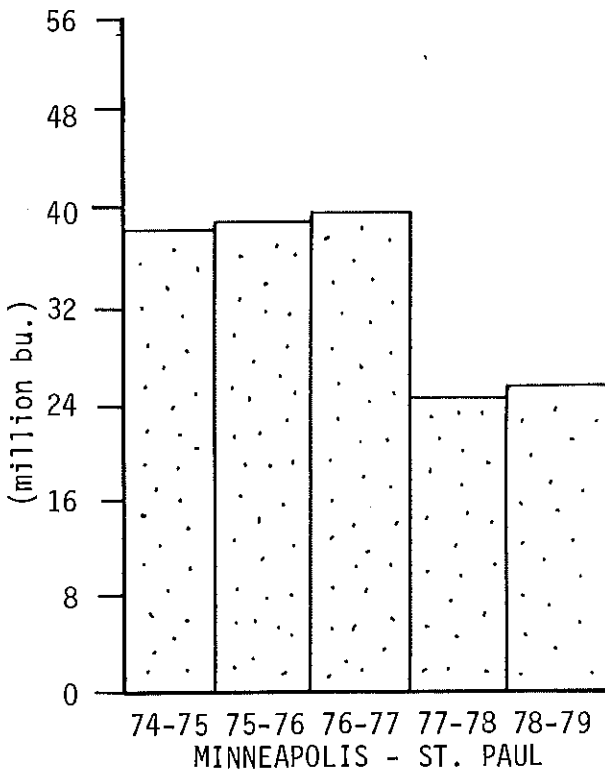


**BARLEY  
MOVEMENTS**

- NORTH DAKOTA BARLEY SHIPMENTS  
BY DESTINATION

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

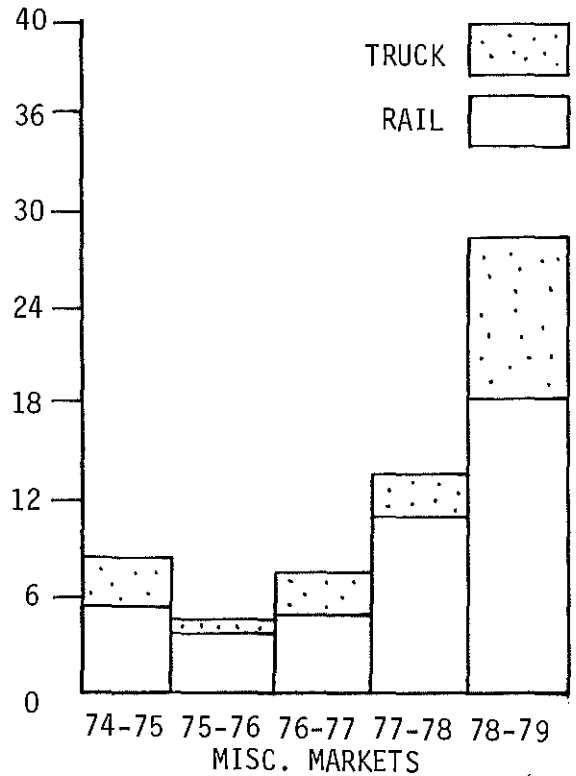
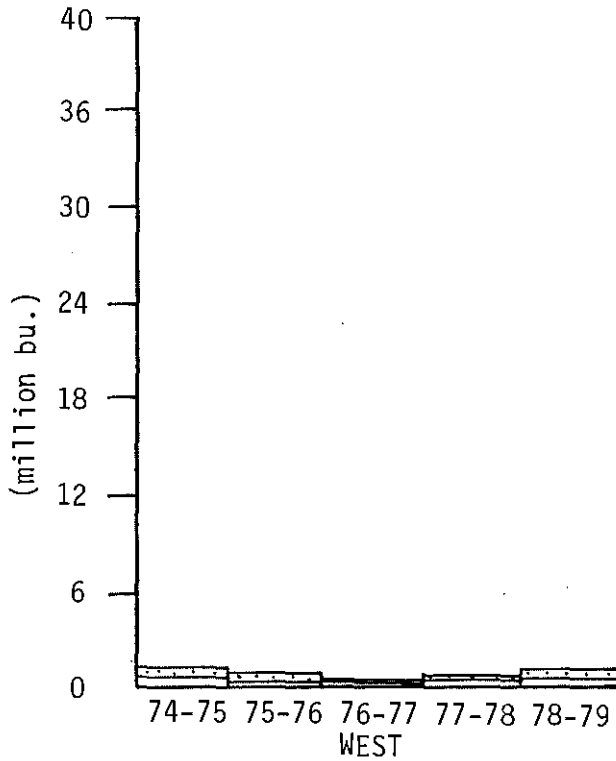
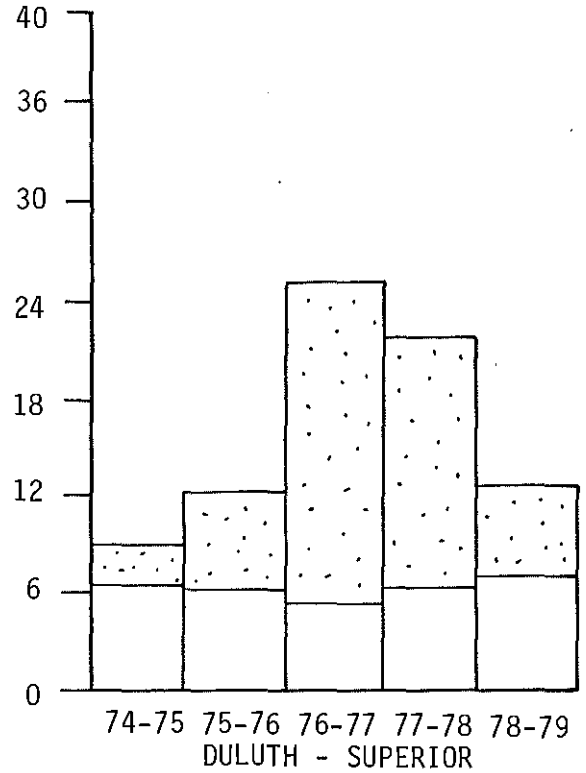
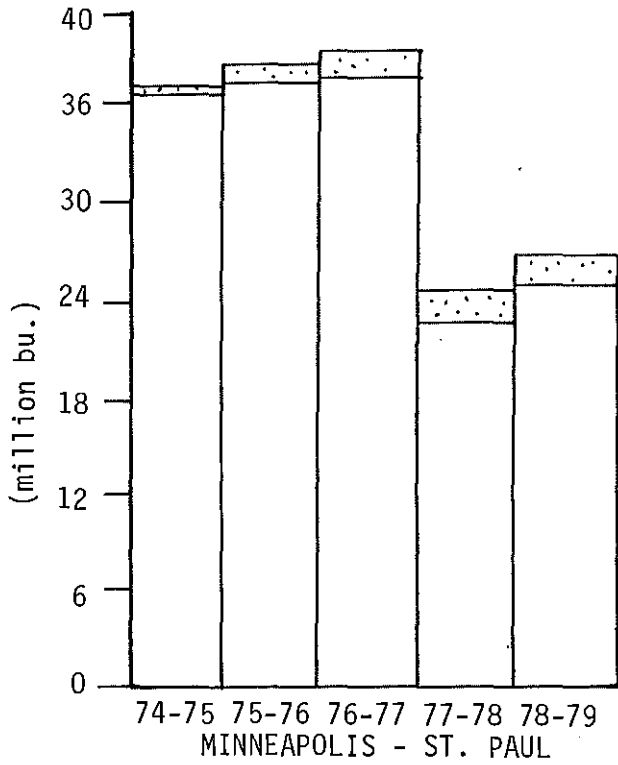
NORTH DAKOTA BARLEY SHIPMENTS  
BY DESTINATION



NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79	
	Rail	Truck	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%)	25,414 (94%)	1,678 (6%)
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%)	7,578 (59%)	5,210 (41%)
WEST	646 (39%)	1,006 (61%)	128 (14%)	765 (86%)	74 (58%)	52 (42%)	323 (41%)	469 (59%)	677 (56%)	527 (44%)
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%)	18,656 (65%)	9,910 (35%)
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%)	52,325 (75%)	17,325 (25%)

NORTH DAKOTA BARLEY SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION

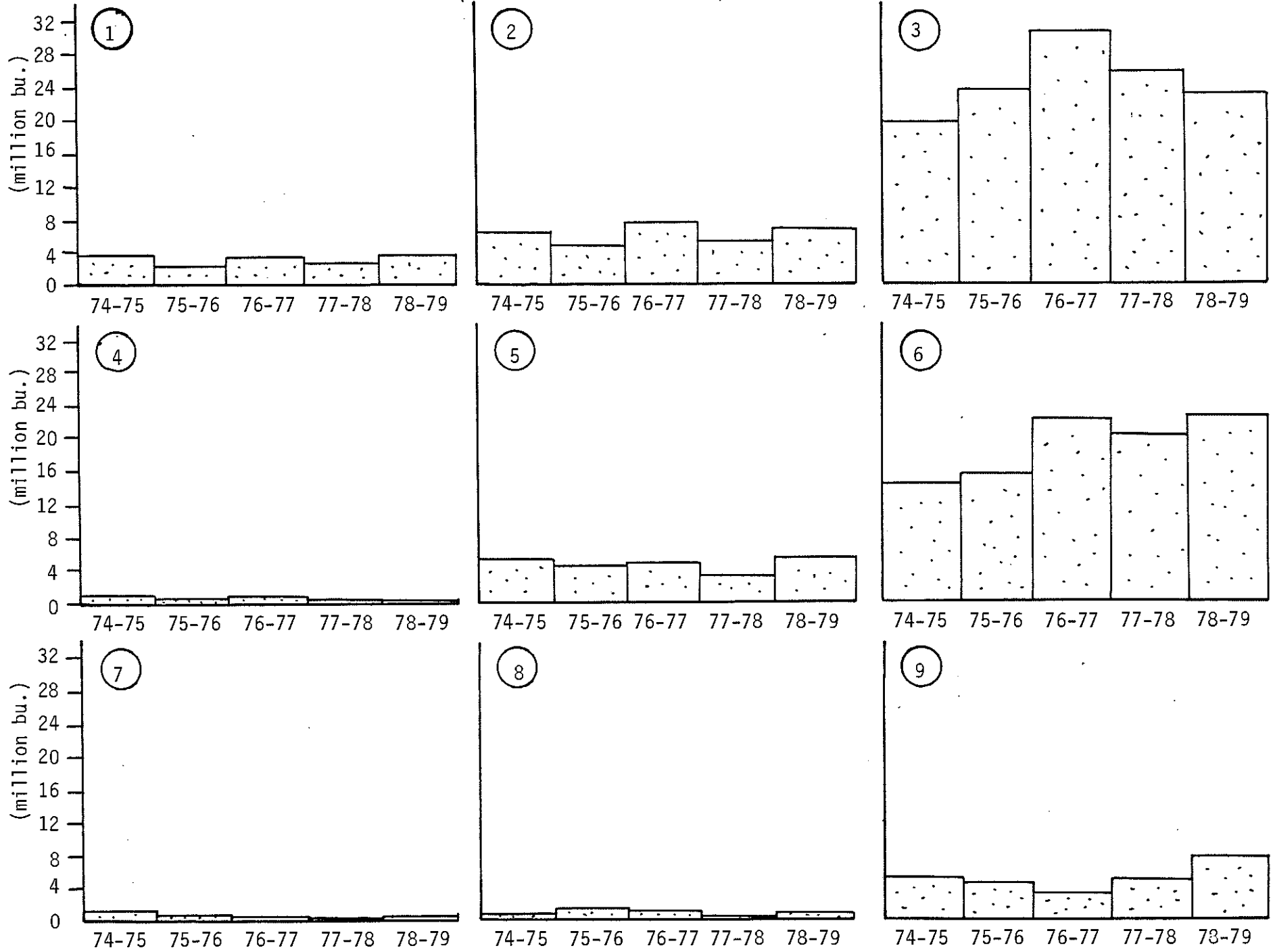


NORTH DAKOTA BARLEY SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

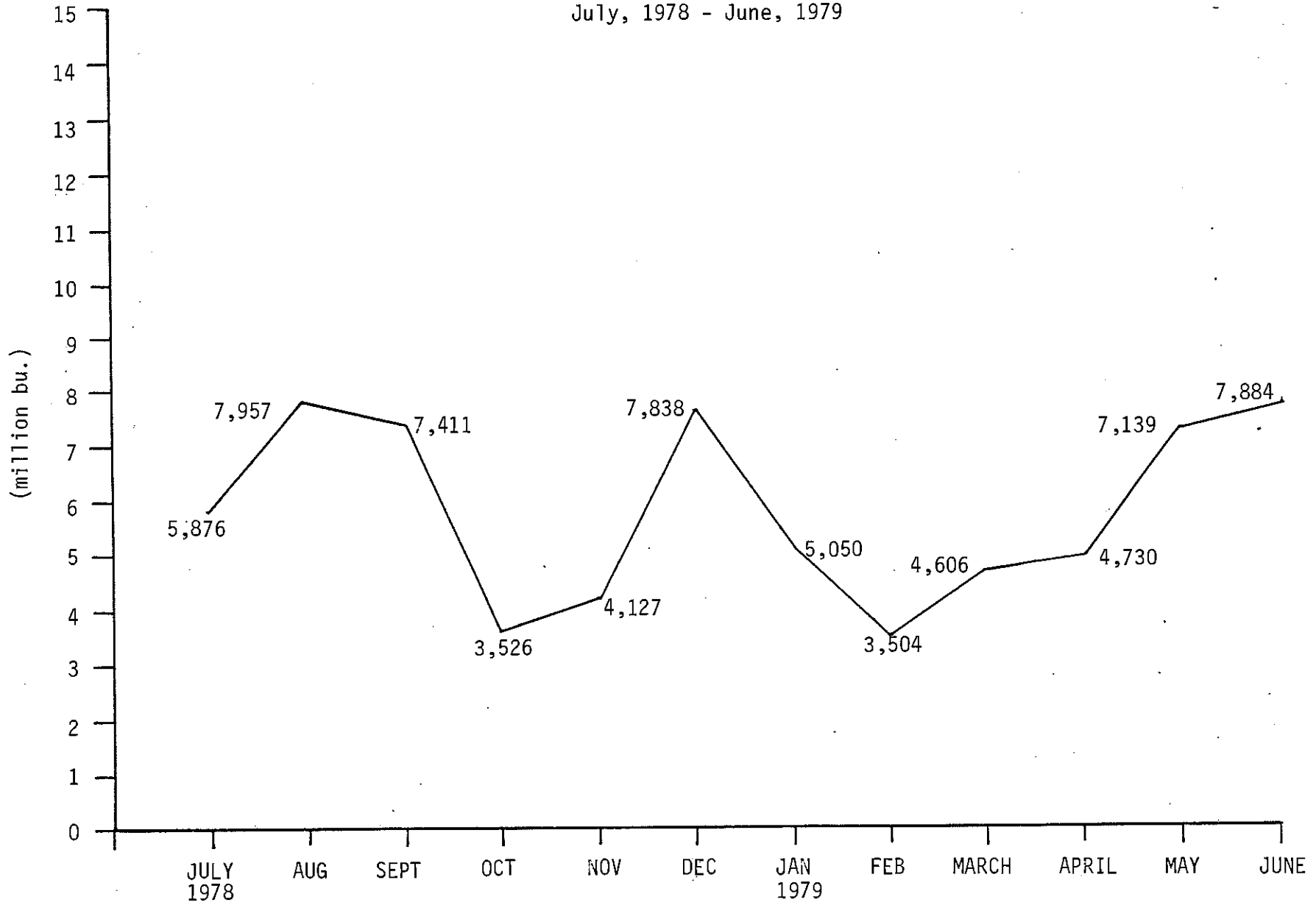
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand bu.)				
1	3,813	2,183	3,229	2,502	3,515
2	6,023	4,621	7,761	5,220	6,930
3	19,947	23,698	30,727	25,417	23,449
4	462	339	345	175	164
5	5,321	4,439	4,773	3,682	5,423
6	14,602	15,619	22,440	20,258	22,739
7	1,075	386	300	94	120
8	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



NORTH DAKOTA BARELY SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)



NORTH DAKOTA BARLEY SHIPMENTS BY MONTH  
July, 1978 - June, 1979

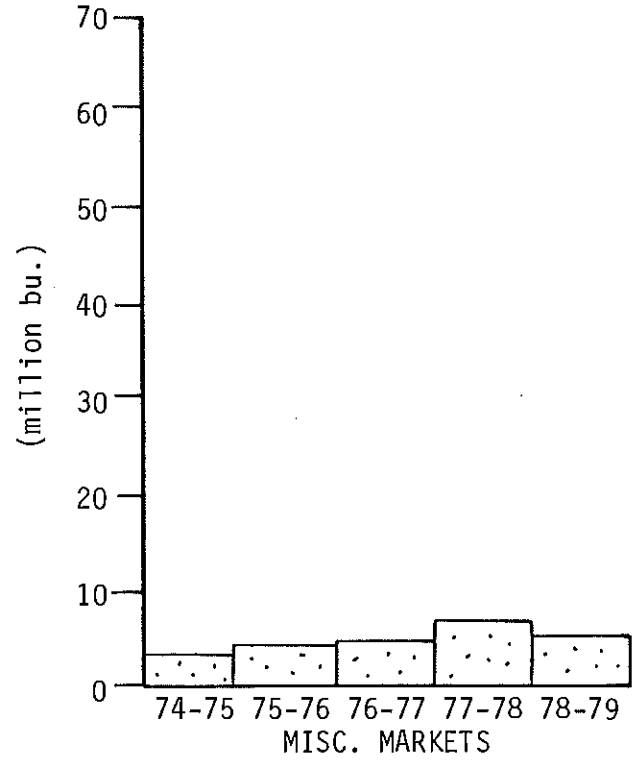
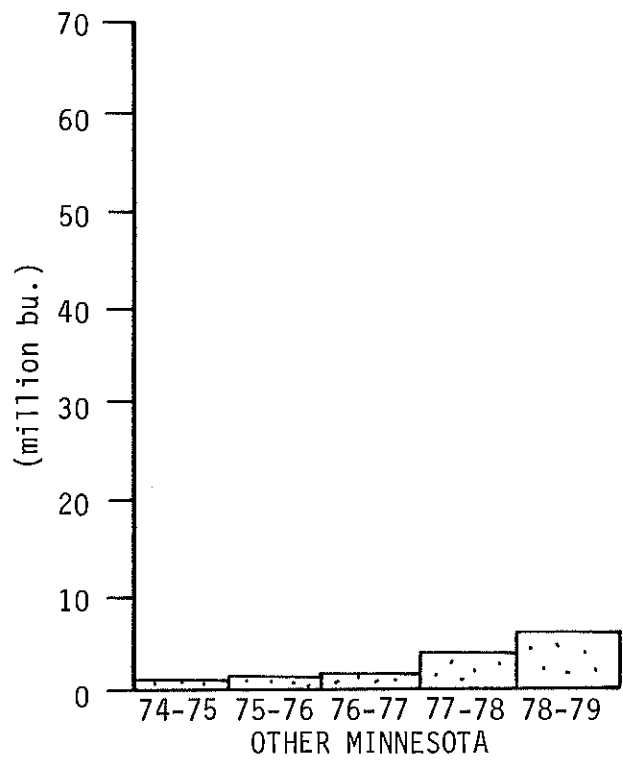
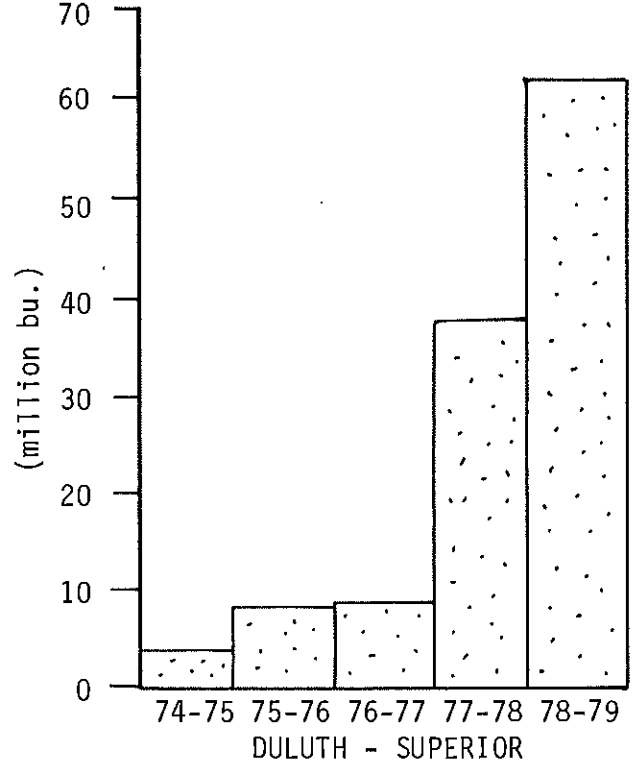
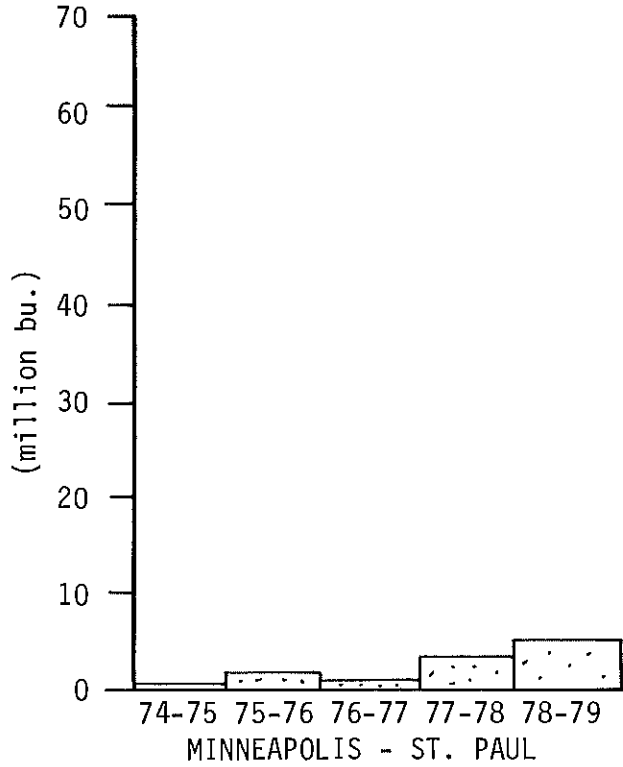


**SUNFLOWER SEED  
MOVEMENTS**

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY DESTINATION

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

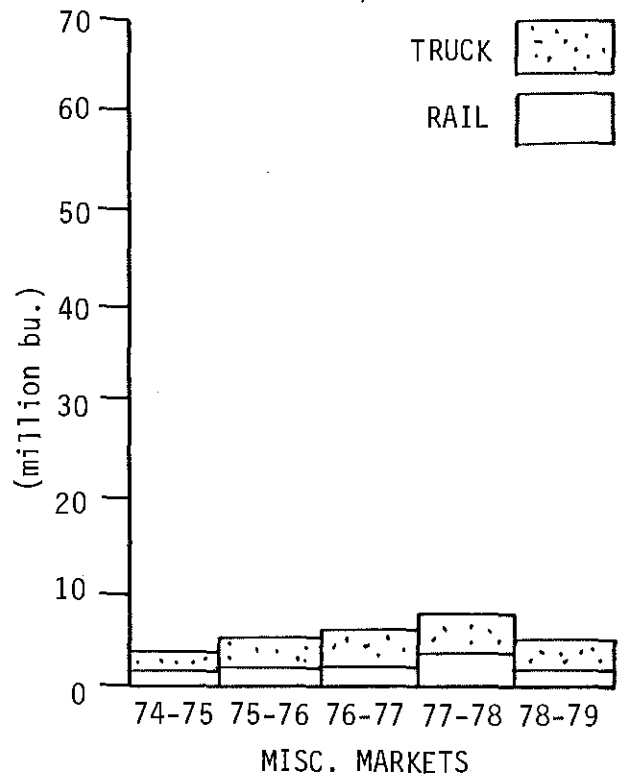
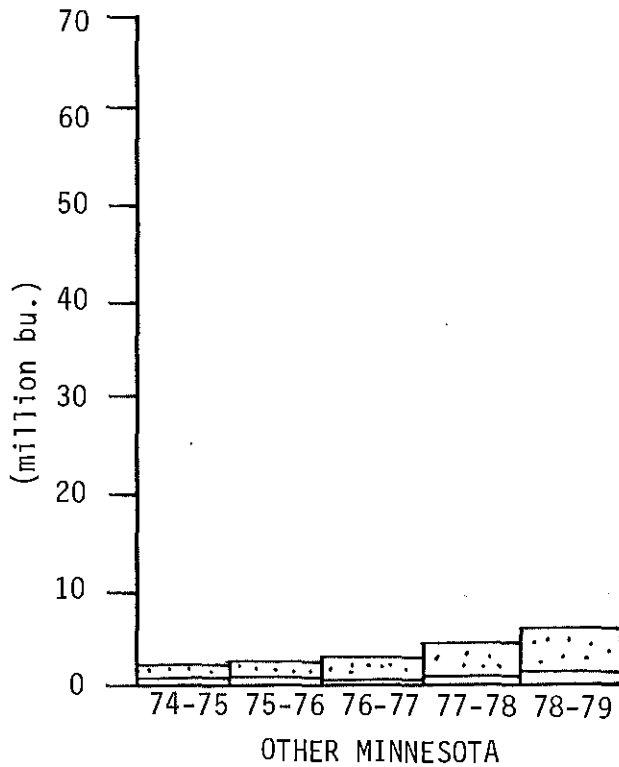
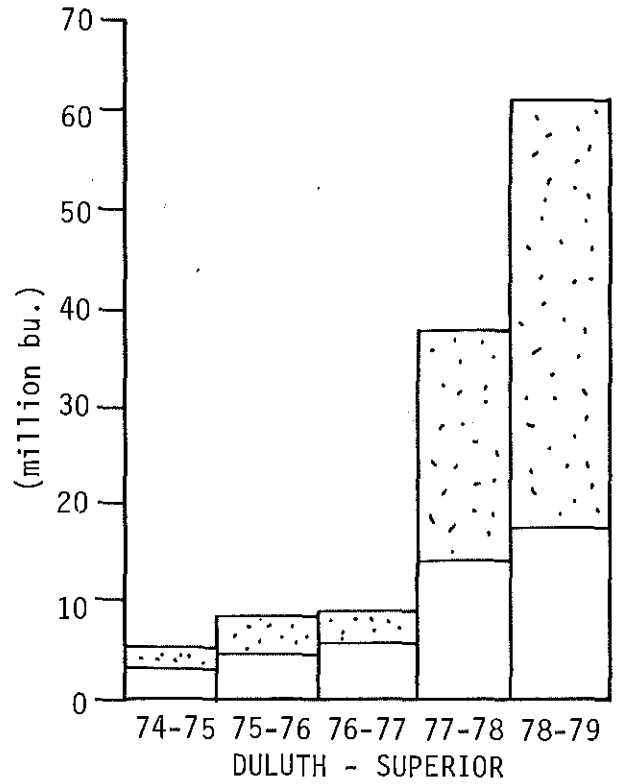
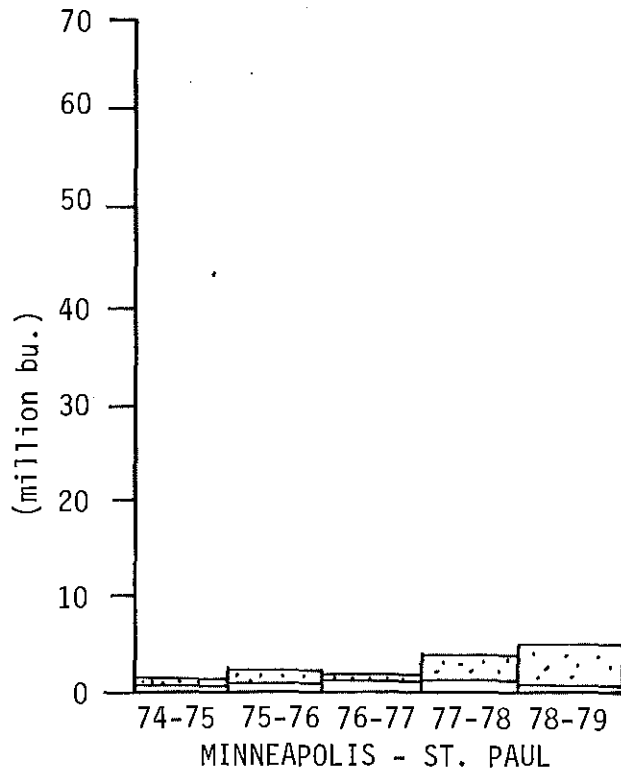
NORTH DAKOTA SUNFLOWER SEED SHIPMENTS  
BY DESTINATION



NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79	
	Rail	Truck	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%)	489 (10%)	4,301 (90%)
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%)	18,830 (30%)	44,348 (70%)
OTHER MINNESOTA	232 (22%)	843 (78%)	279 (24%)	868 (76%)	256 (19%)	1,114 (81%)	367 (11%)	2,853 (89%)	465 (8%)	5,143 (92%)
MISC. MARKETS	1,646 (46%)	1,959 (54%)	1,947 (47%)	2,220 (53%)	1,996 (42%)	2,730 (58%)	3,154 (42%)	4,433 (58%)	1,708 (30%)	3,969 (70%)
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%)	21,492 (27%)	57,761 (73%)

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION

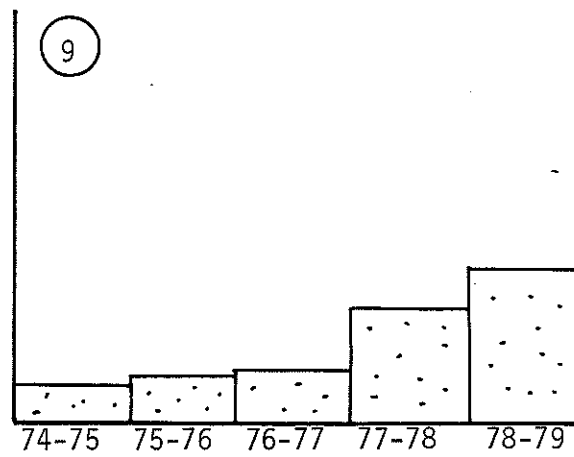
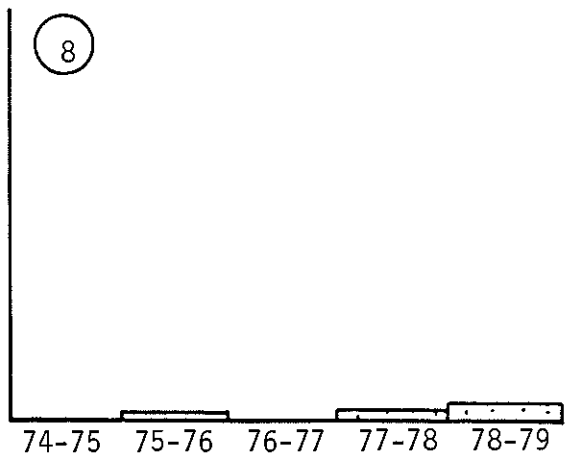
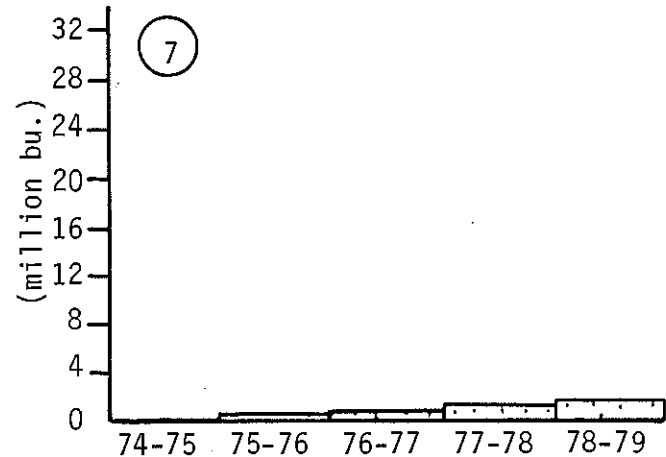
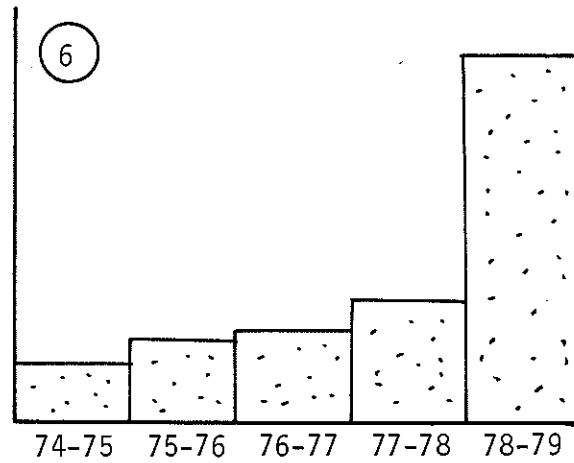
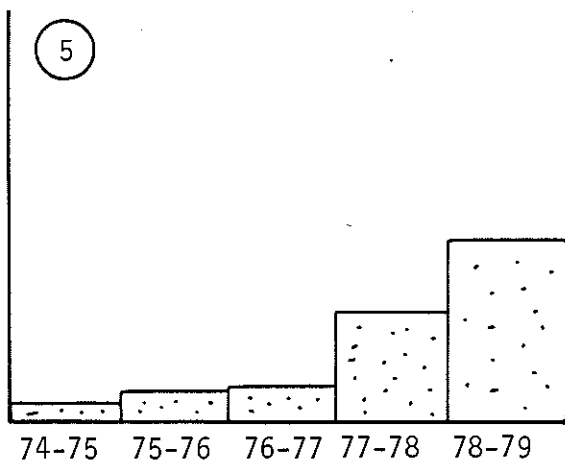
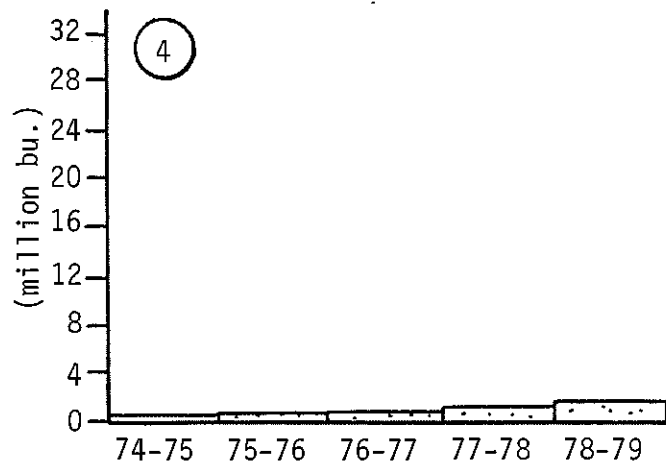
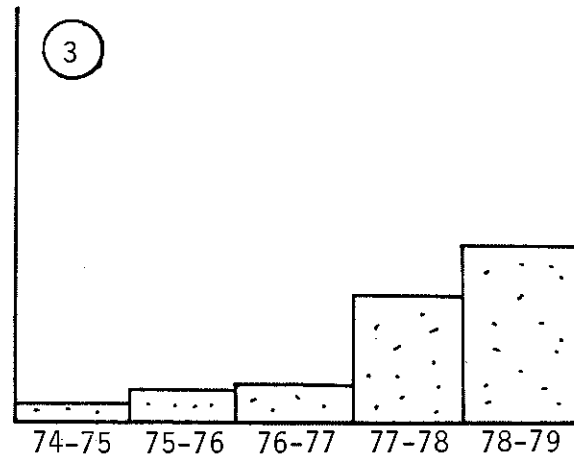
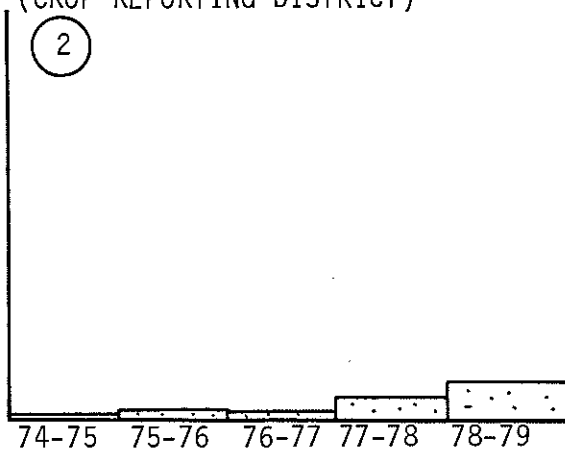
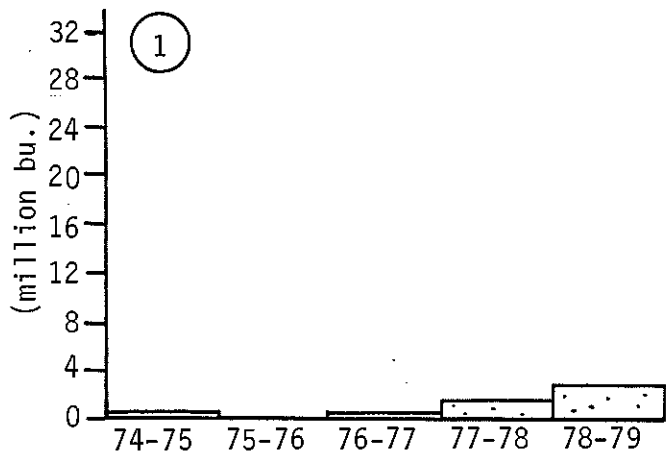


NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)

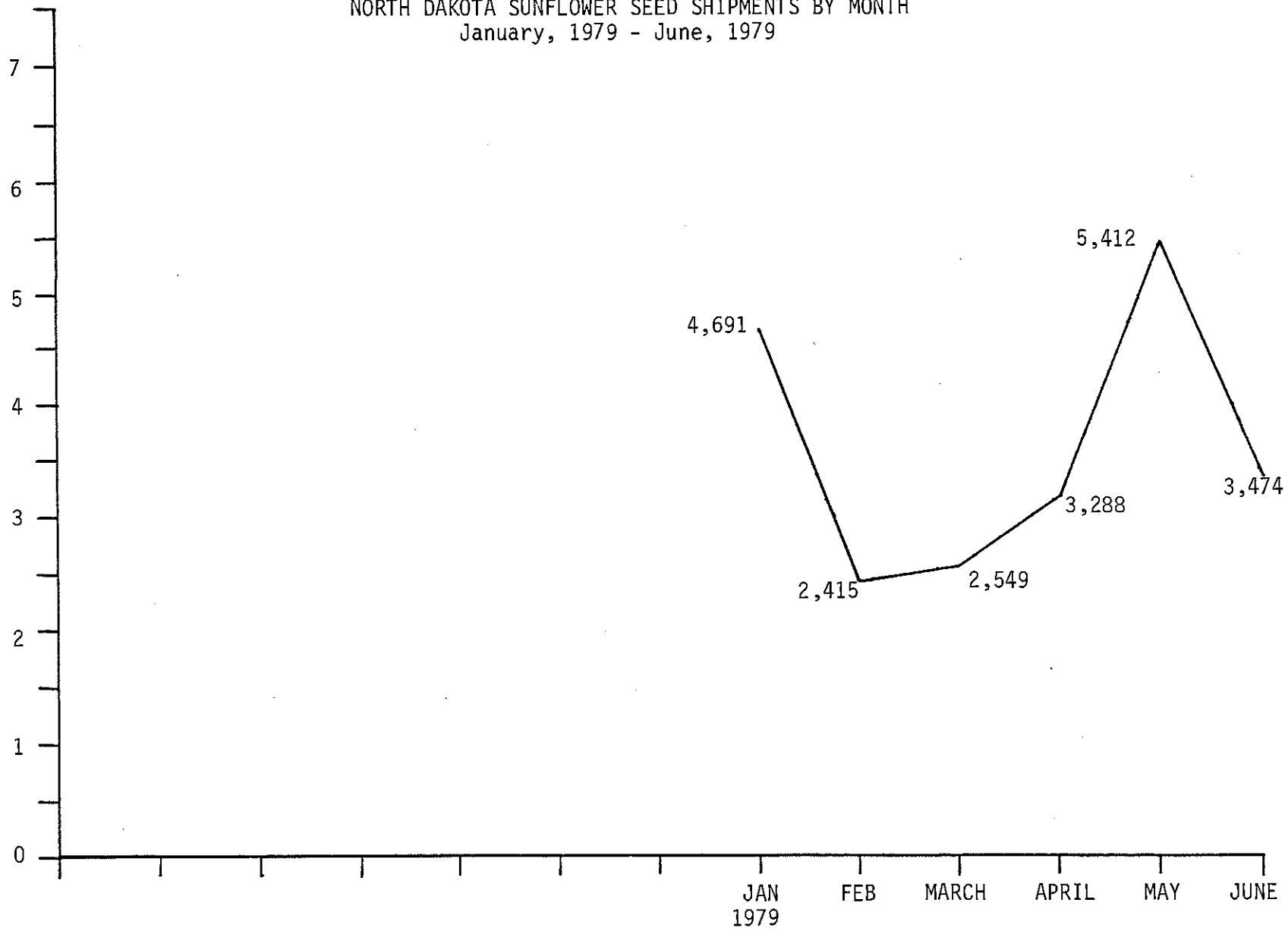
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand bu.)				
1	15	0	7	771	2,233
2	2	71	26	1,267	2,839
3	791	1,853	2,184	10,469	14,803
4	4	9	20	179	336
5	470	1,772	1,788	9,087	15,560
6	5,464	7,441	7,861	10,710	30,050
7	0	2	25	225	485
8	0	7	0	129	225
9	2,267	3,399	3,711	8,442	12,722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



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



NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY MONTH  
January, 1979 - June, 1979

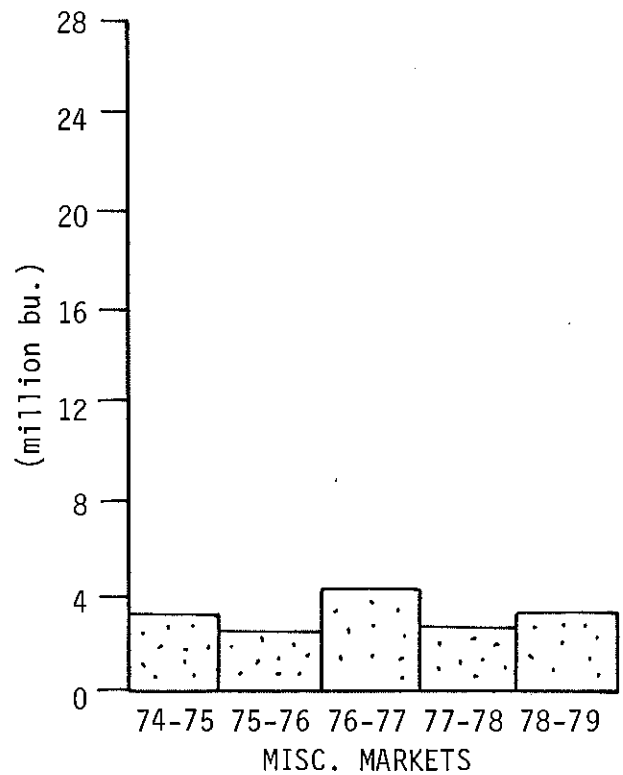
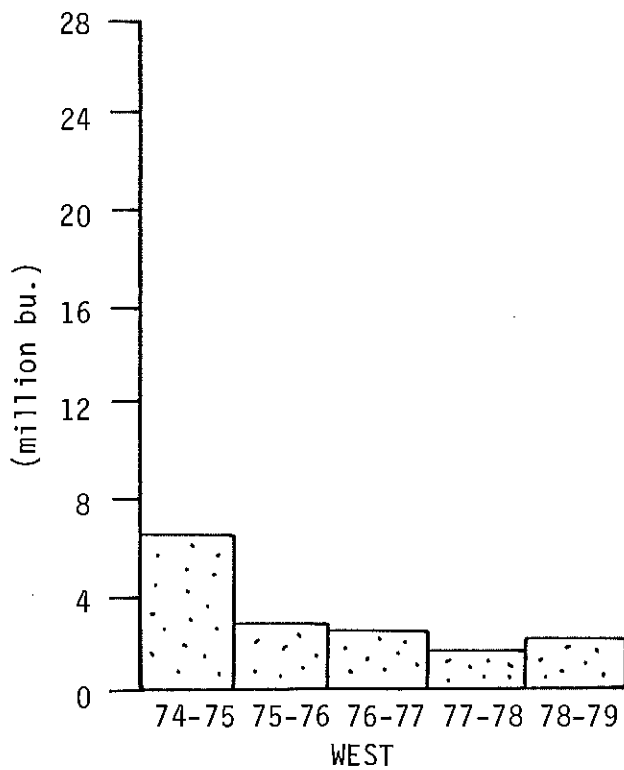
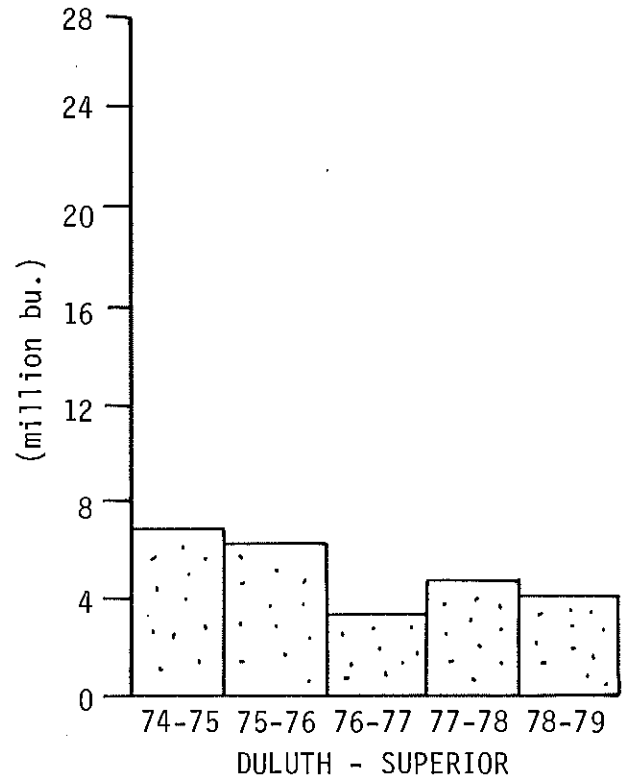
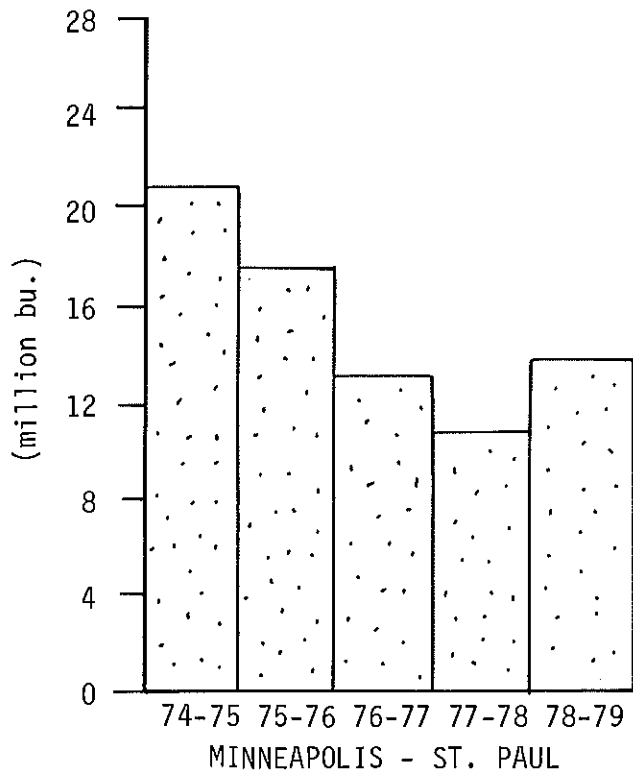


**OATS  
MOVEMENTS**

NORTH DAKOTA OATS SHIPMENTS  
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand bu.)				
MINNEAPOLIS - ST. PAUL	10,439 (54%)	8,779 (58%)	6,769 (56%)	5,860 (56%)	6,969 (58%)
DULUTH - SUPERIOR	3,752 (19%)	3,531 (23%)	1,932 (16%)	2,385 (23%)	2,078 (17%)
WEST	3,446 (18%)	1,458 (10%)	1,427 (12%)	851 (8%)	1,200 (10%)
MISCELLANEOUS MARKETS	1,825 (9%)	1,334 (9%)	2,031 (17%)	1,396 (13%)	1,839 (15%)
TOTAL	19,462 (100%)	15,102 (100%)	12,159 (100%)	10,492 (100%)	12,086 (100%)

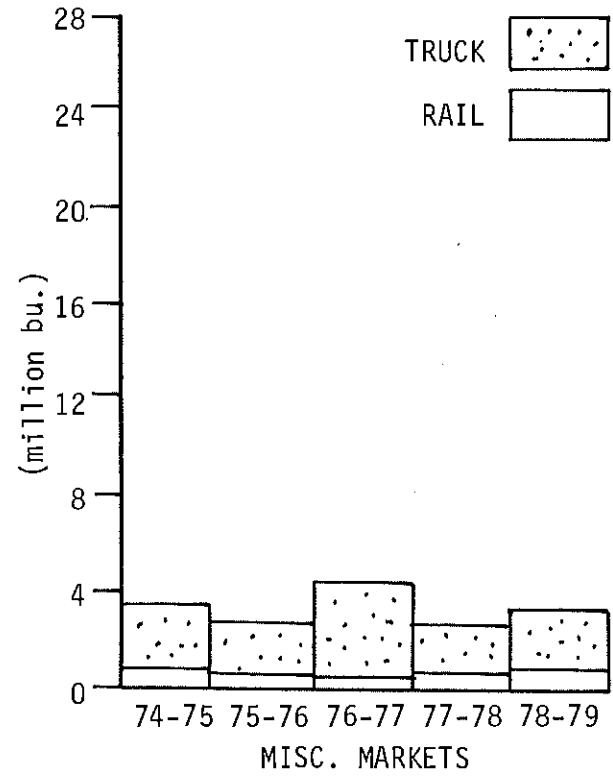
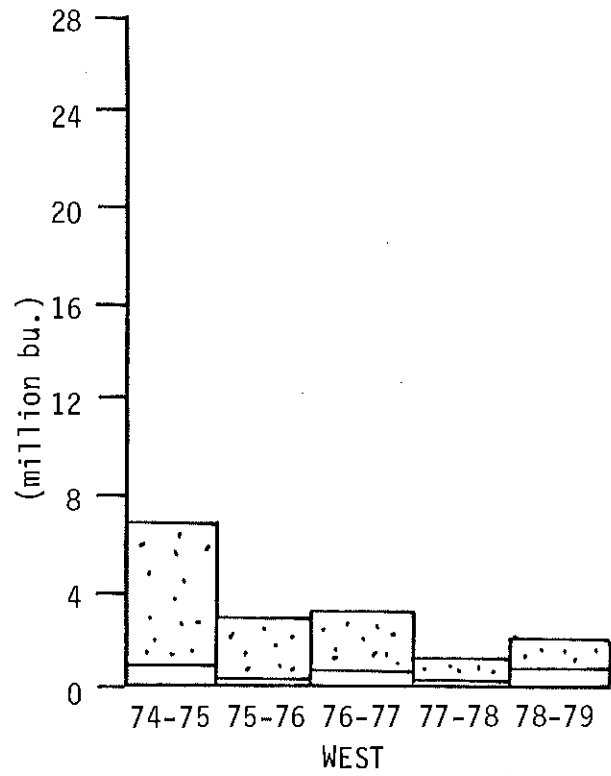
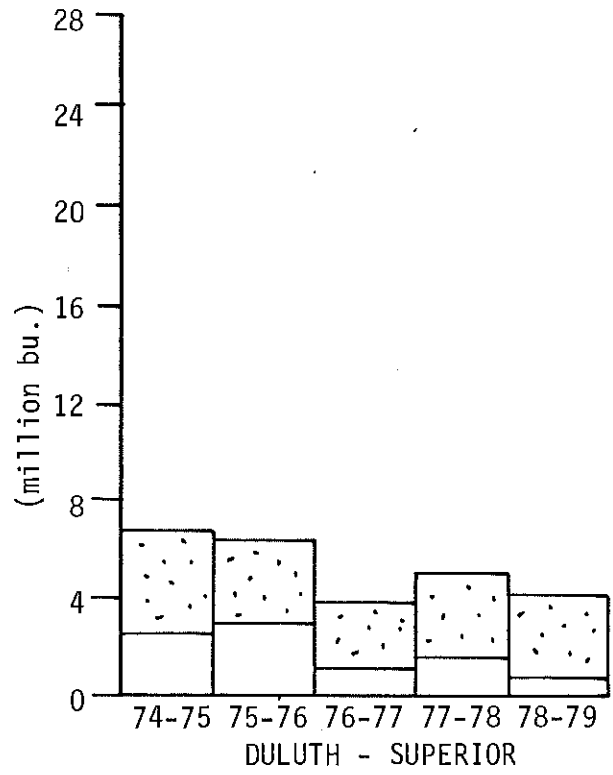
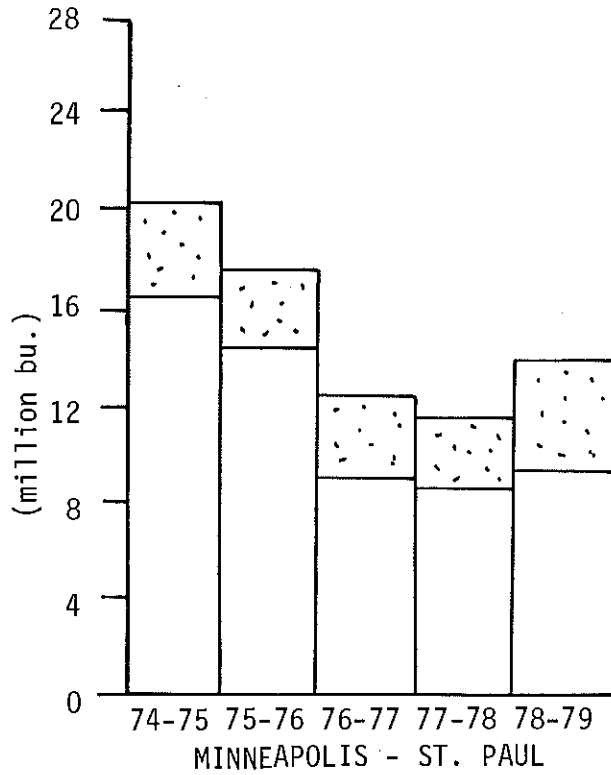
NORTH DAKOTA OATS SHIPMENTS  
BY DESTINATION



NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

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

NORTH DAKOTA OATS SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION



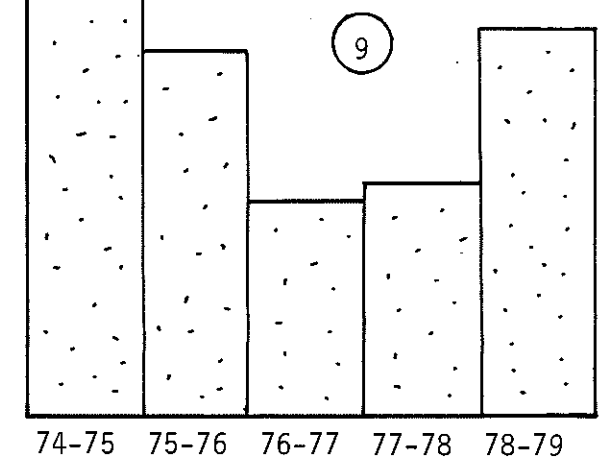
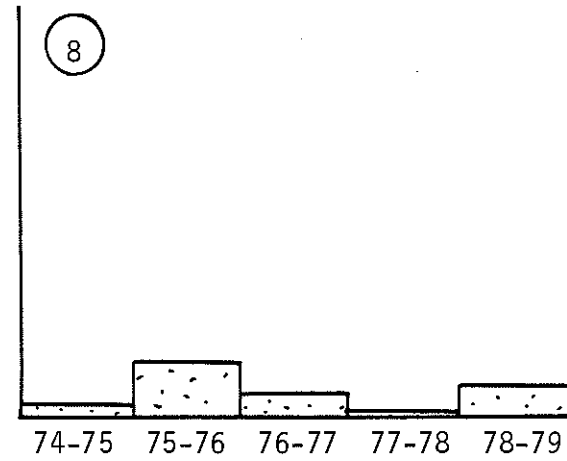
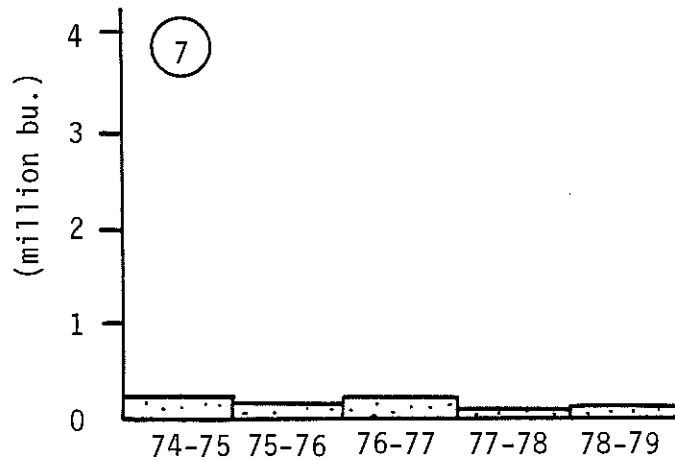
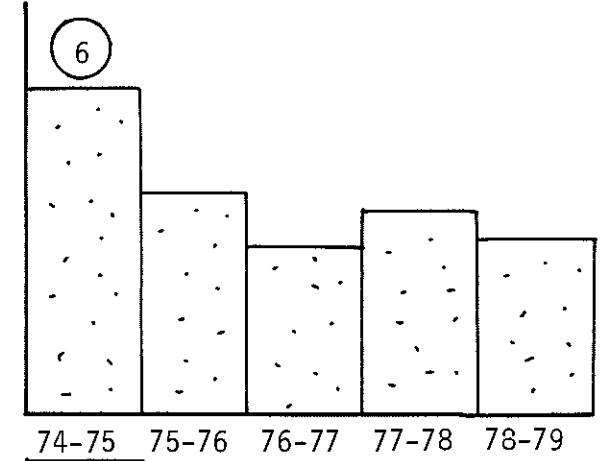
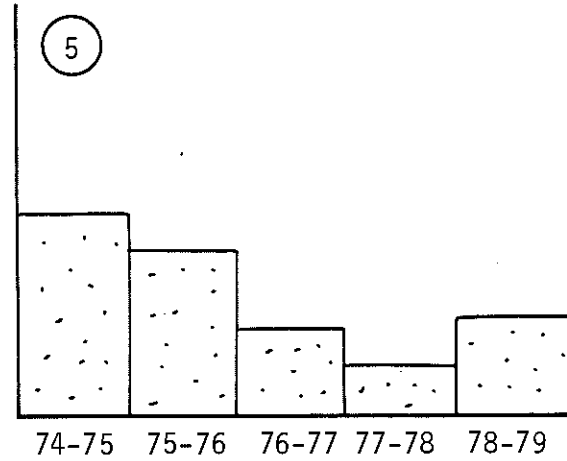
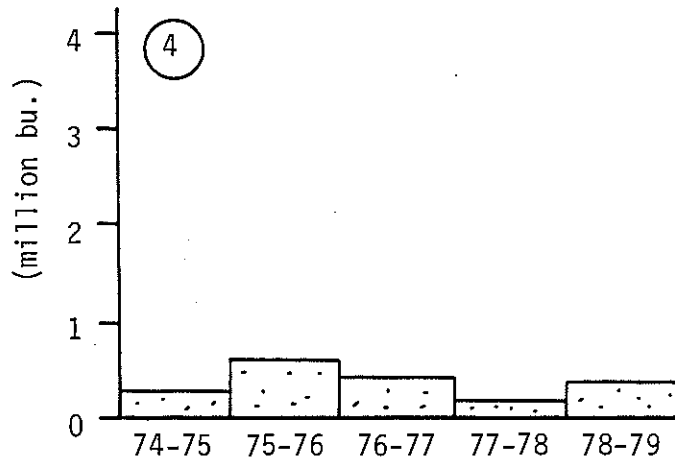
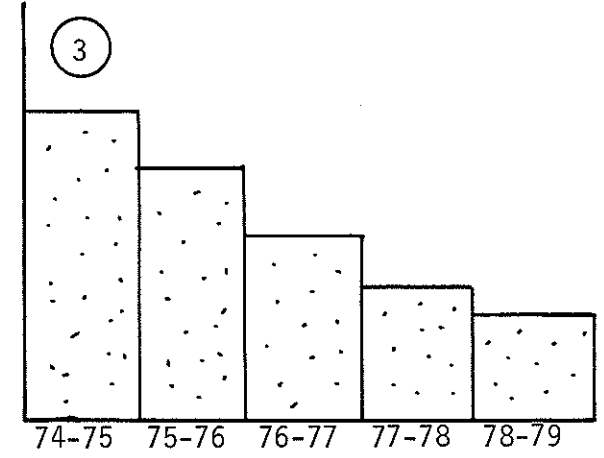
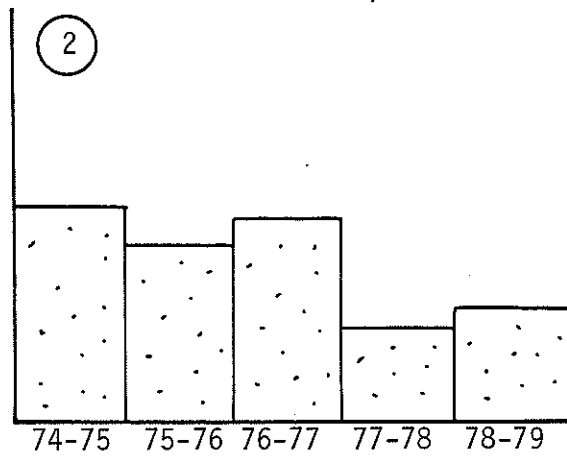
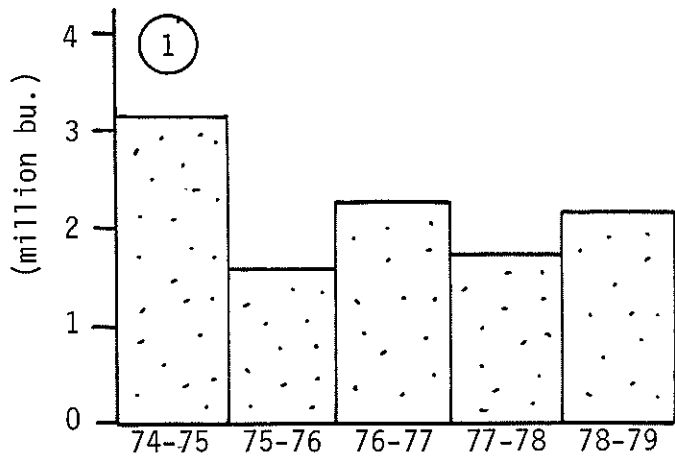
TRUCK   
RAIL 

NORTH DAKOTA OATS SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

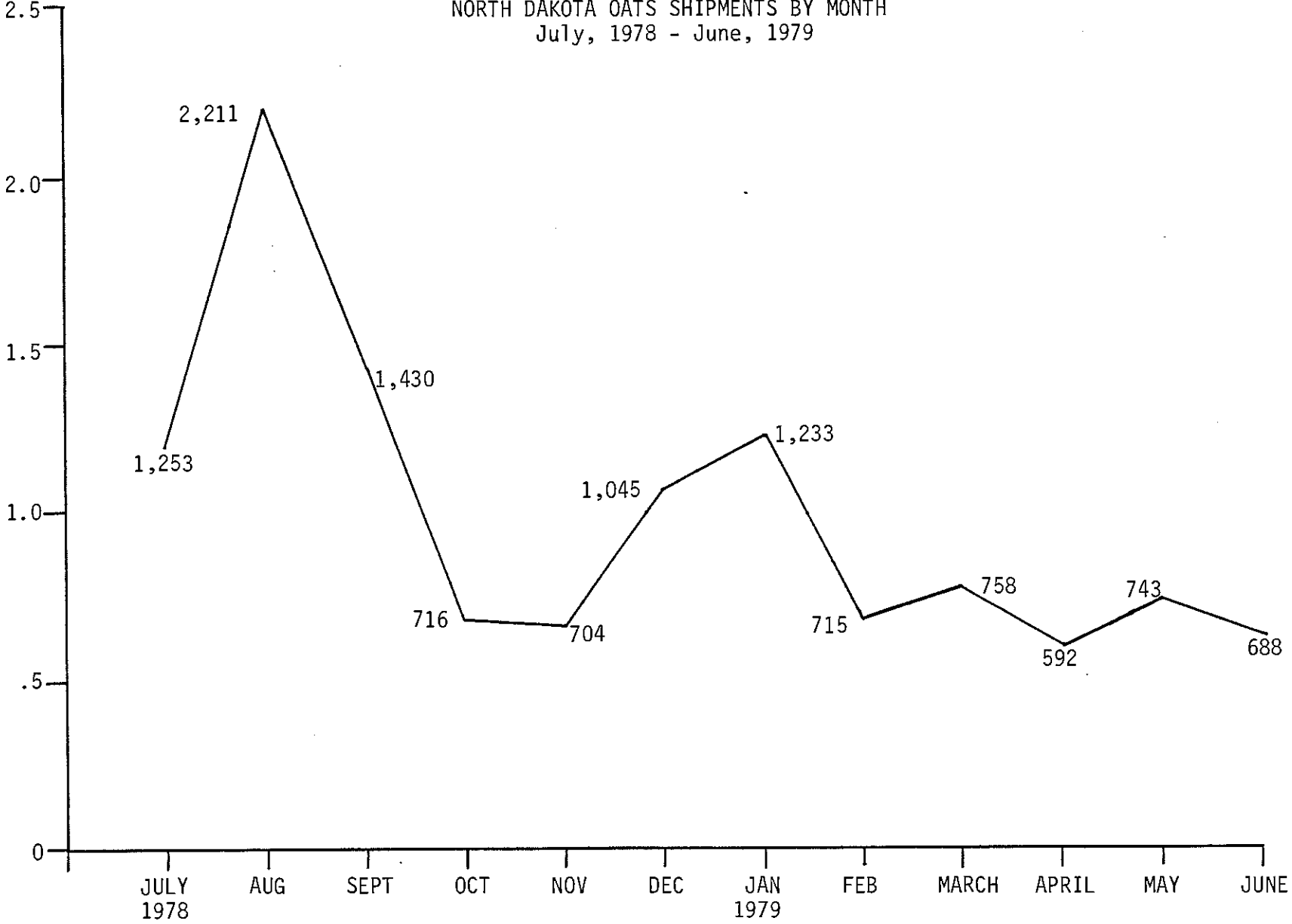
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
1	3,103	1,613	2,309	1,769	2,200
2	2,221	1,806	2,081	974	1,184
3	3,153	2,590	1,904	1,485	1,132
4	283	596	436	137	425
5	2,095	1,757	976	507	1,016
6	3,426	2,297	1,733	2,077	1,760
7	266	163	225	47	68
8	65	573	226	7	301
9	4,668	3,709	2,269	3,490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



NORTH DAKOTA OATS SHIPMENTS  
(CROP REPORTING DISTRICT)



NORTH DAKOTA OATS SHIPMENTS BY MONTH  
July, 1978 - June, 1979

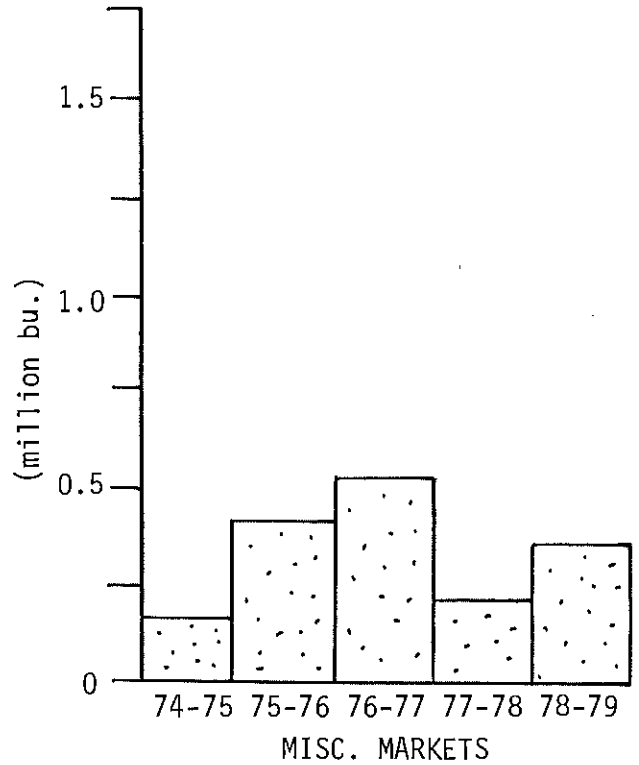
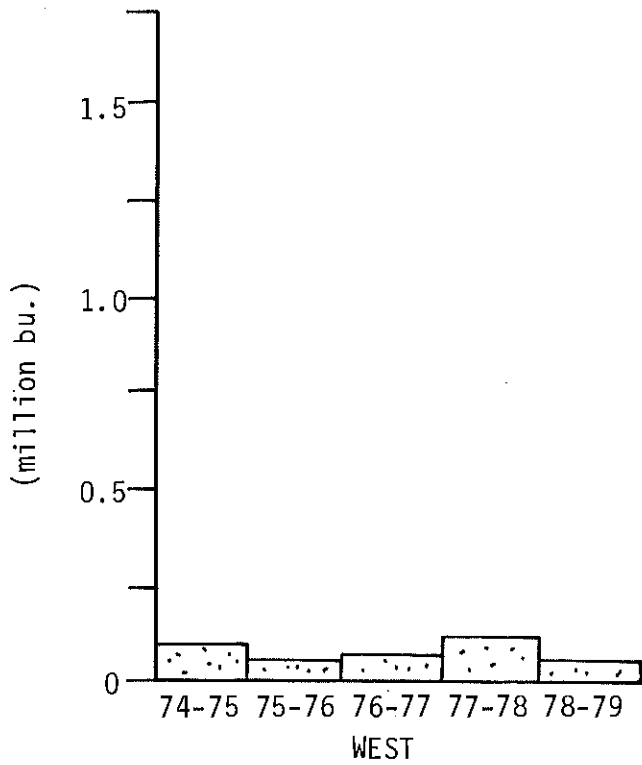
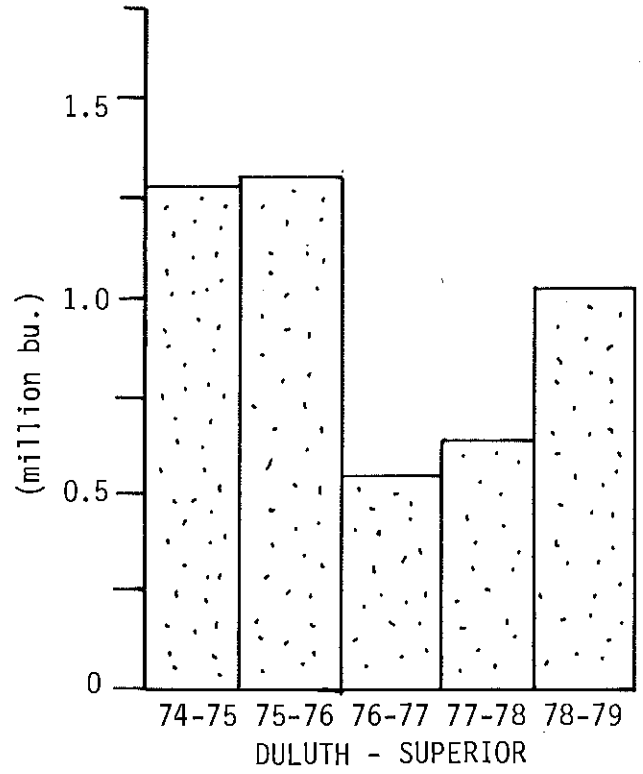
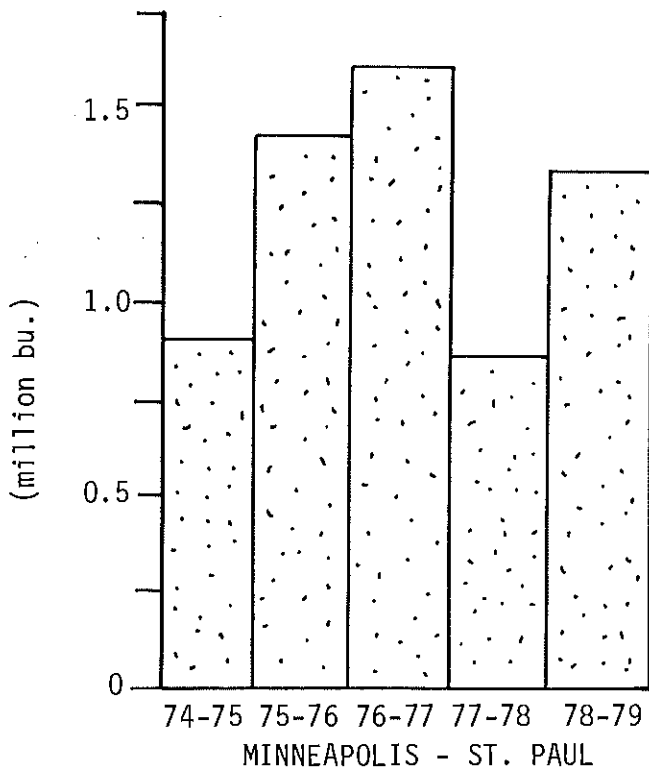


**RYE  
MOVEMENTS**

NORTH DAKOTA RYE SHIPMENTS  
BY DESTINATION

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

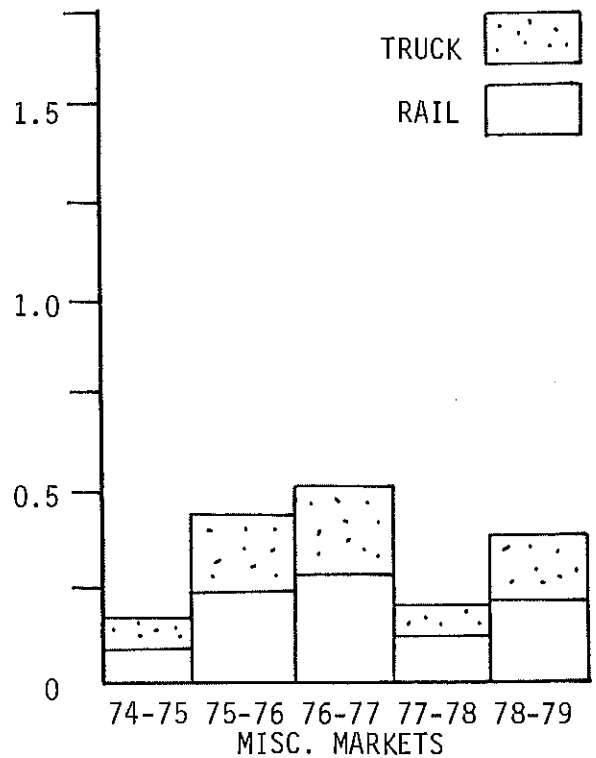
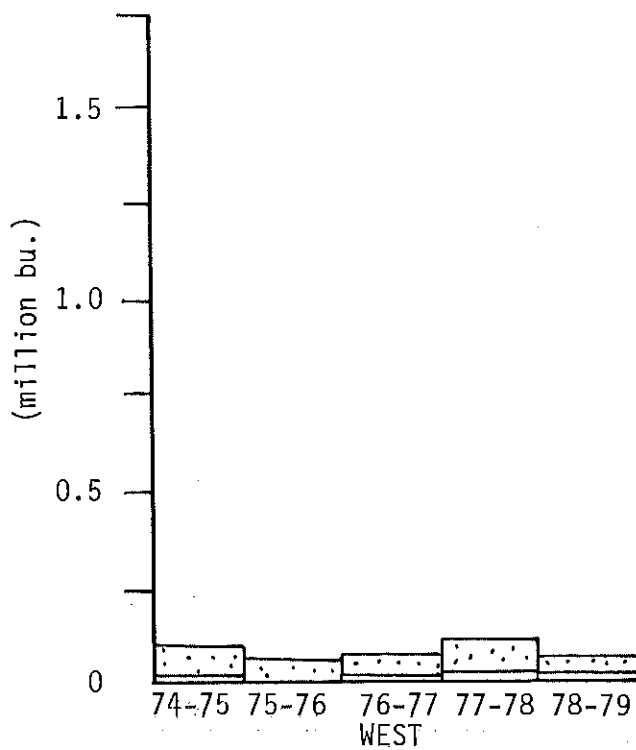
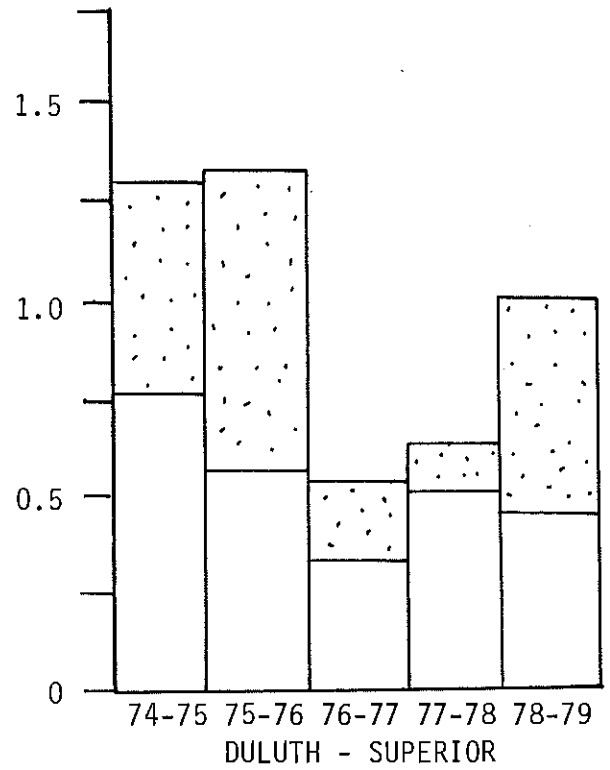
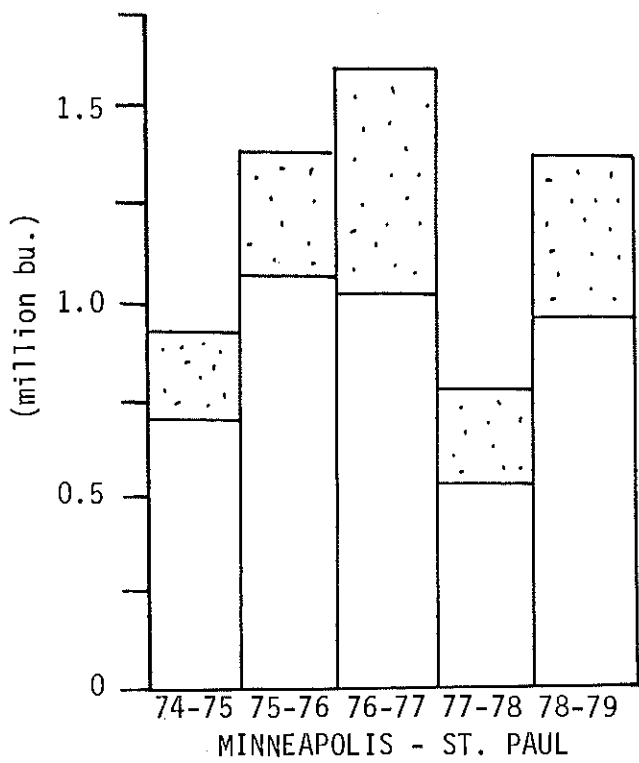
NORTH DAKOTA RYE SHIPMENTS  
BY DESTINATION



NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

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

NORTH DAKOTA RYE SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION

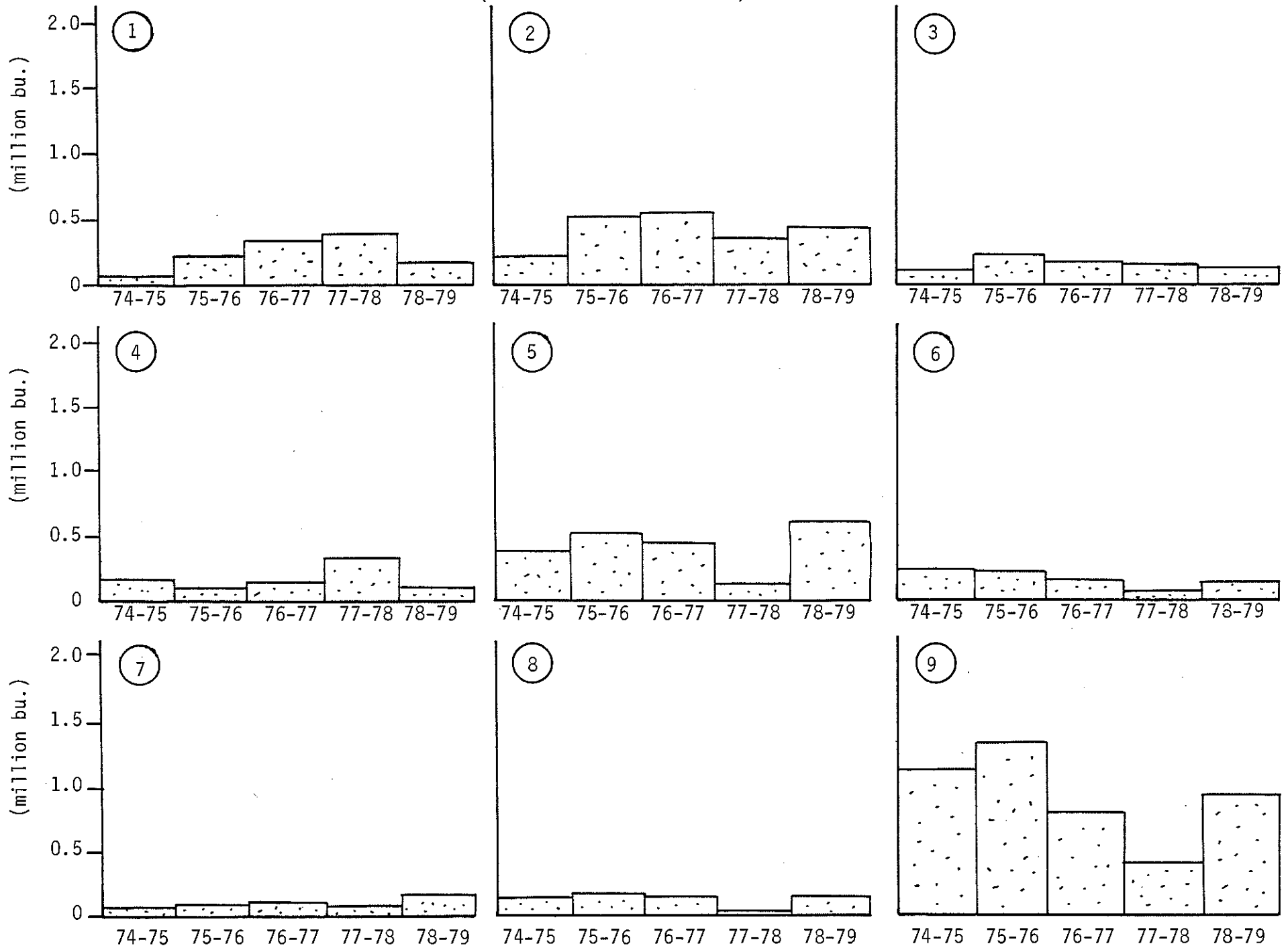


NORTH DAKOTA RYE SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)

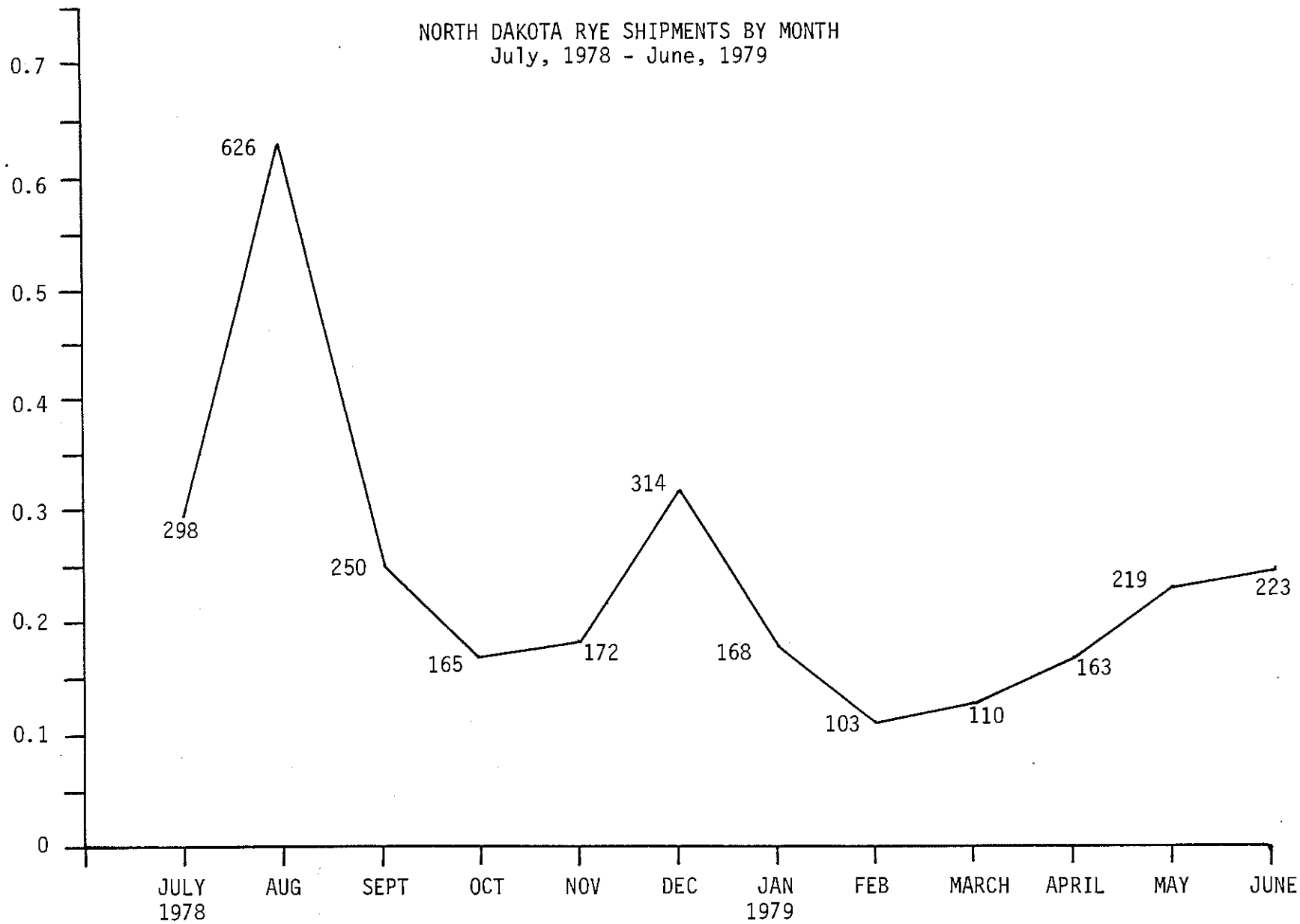
CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79
	(thousand bu.)				
1	59	218	285	334	177
2	221	541	557	315	442
3	87	222	189	181	160
4	147	71	124	304	75
5	347	518	444	122	570
6	209	206	161	59	136
7	71	77	93	75	165
8	103	134	118	27	104
9	1,170	1,305	799	355	982
TOTAL	2,414	3,292	2,770	1,772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



NORTH DAKOTA RYE SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)



NORTH DAKOTA RYE SHIPMENTS BY MONTH  
July, 1978 - June, 1979

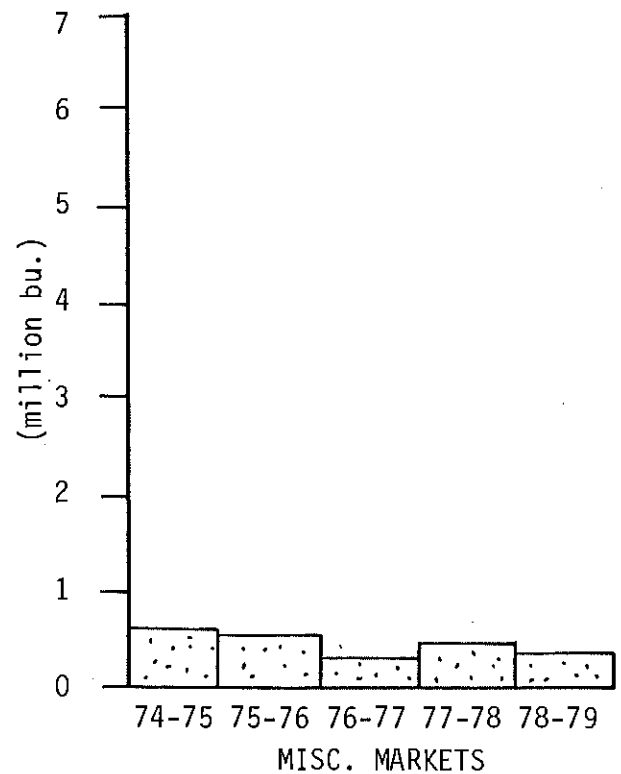
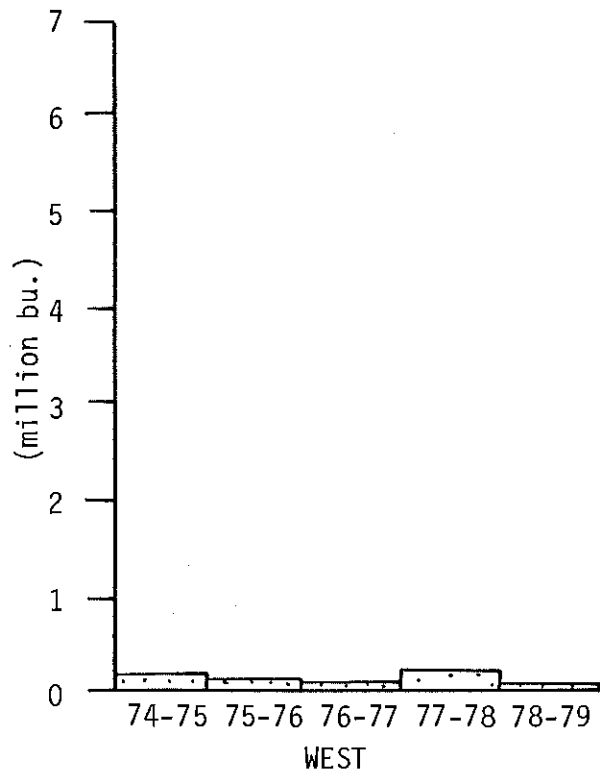
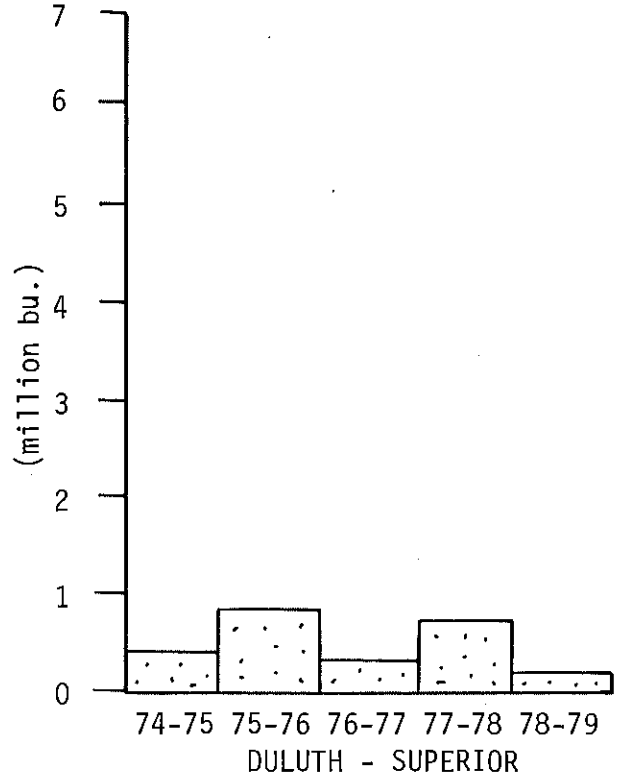
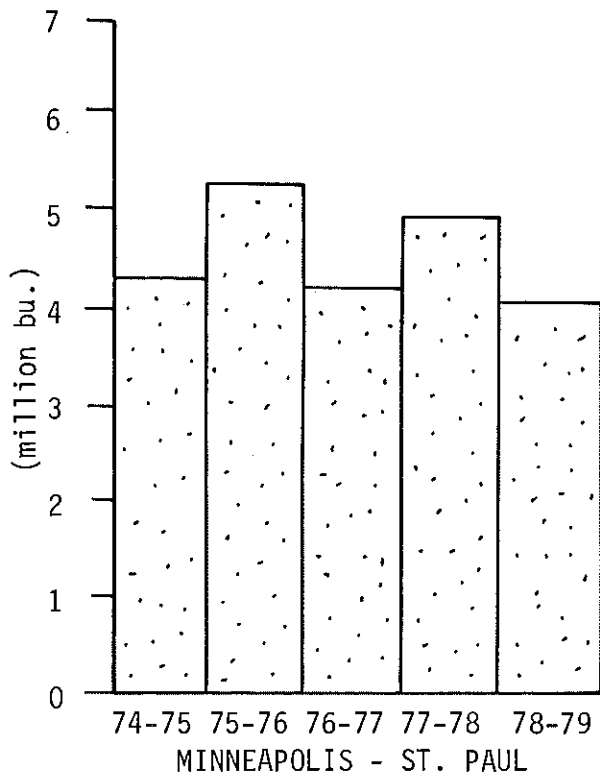


**FLAXSEED  
MOVEMENTS**

NORTH DAKOTA FLAXSEED SHIPMENTS BY DESTINATION

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

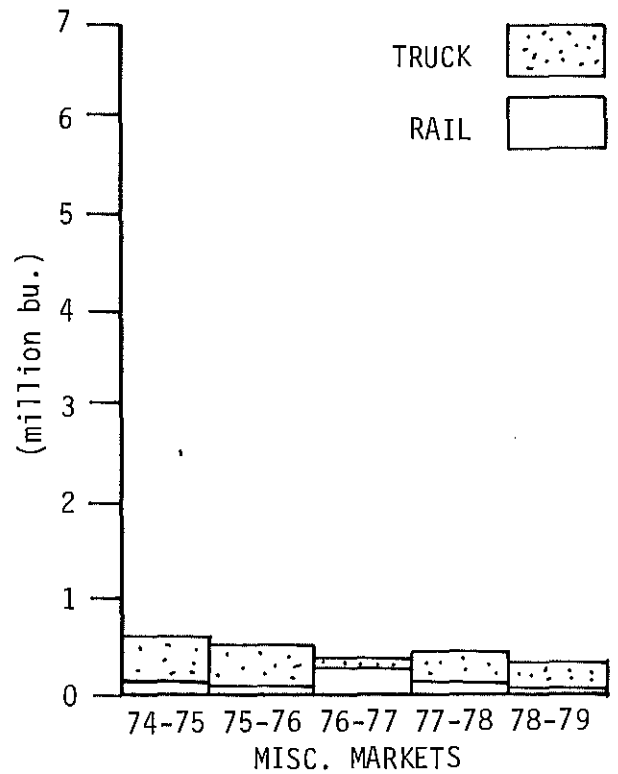
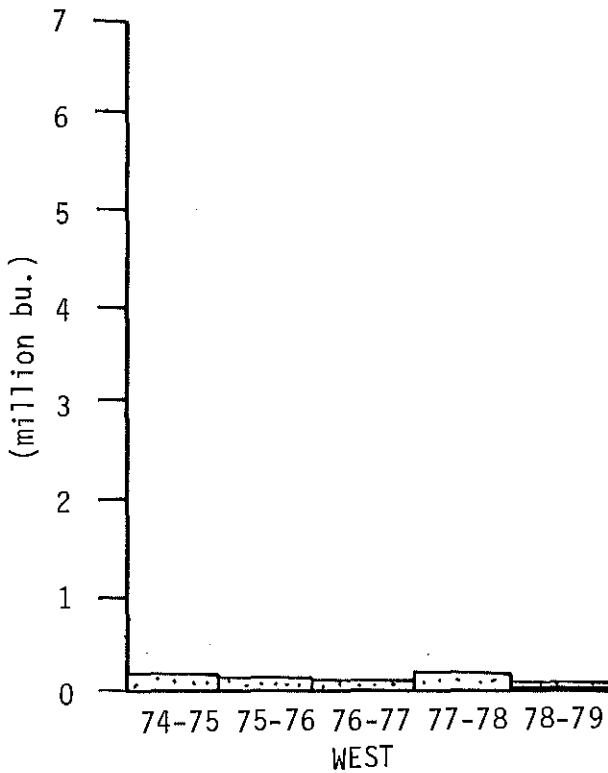
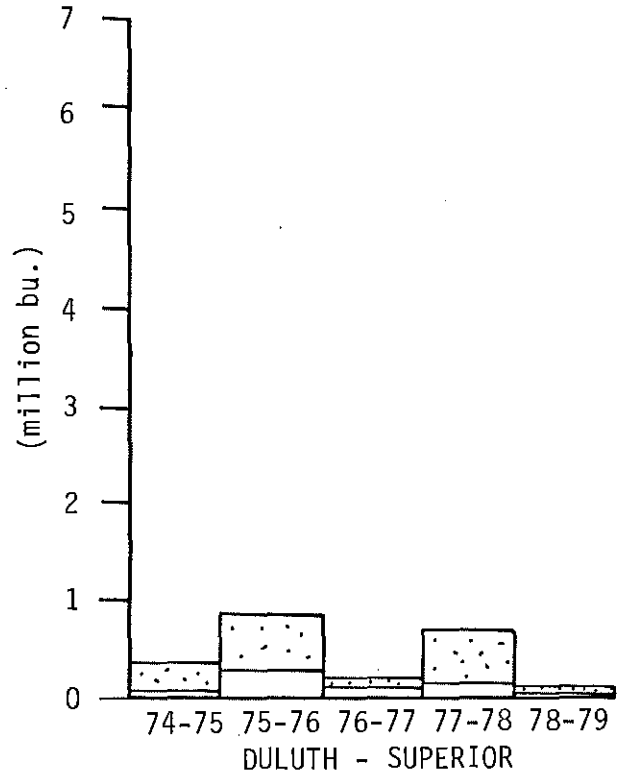
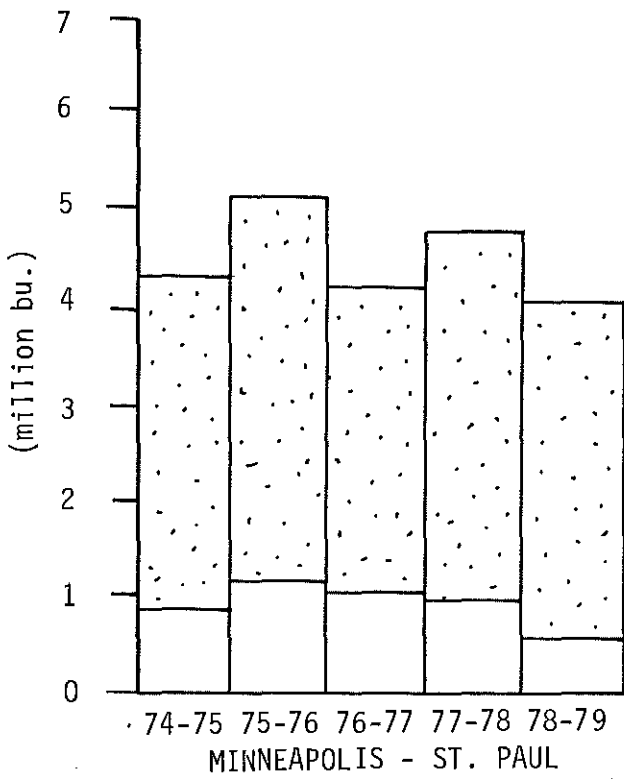
NORTH DAKOTA FLAXSEED SHIPMENTS  
BY DESTINATION



NORTH DAKOTA FLAXSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79	
	Rail	Truck	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%)	541 (13%)	3,513 (87%)
DULUTH - SUPERIOR	55 (16%)	291 (84%)	317 (37%)	538 (63%)	102 (36%)	183 (64%)	226 (30%)	522 (70%)	18 (12%)	135 (88%)
WEST	0 (0%)	69 (100%)	0 (0%)	60 (100%)	0 (0%)	59 (100%)	0 (0%)	72 (100%)	2 (10%)	19 (90%)
MISC. MARKETS	78 (15%)	453 (85%)	31 (6%)	474 (94%)	206 (74%)	74 (26%)	74 (18%)	339 (82%)	32 (10%)	281 (90%)
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%)	593 (15%)	3,948 (85%)

NORTH DAKOTA FLAXSEED SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATIONS

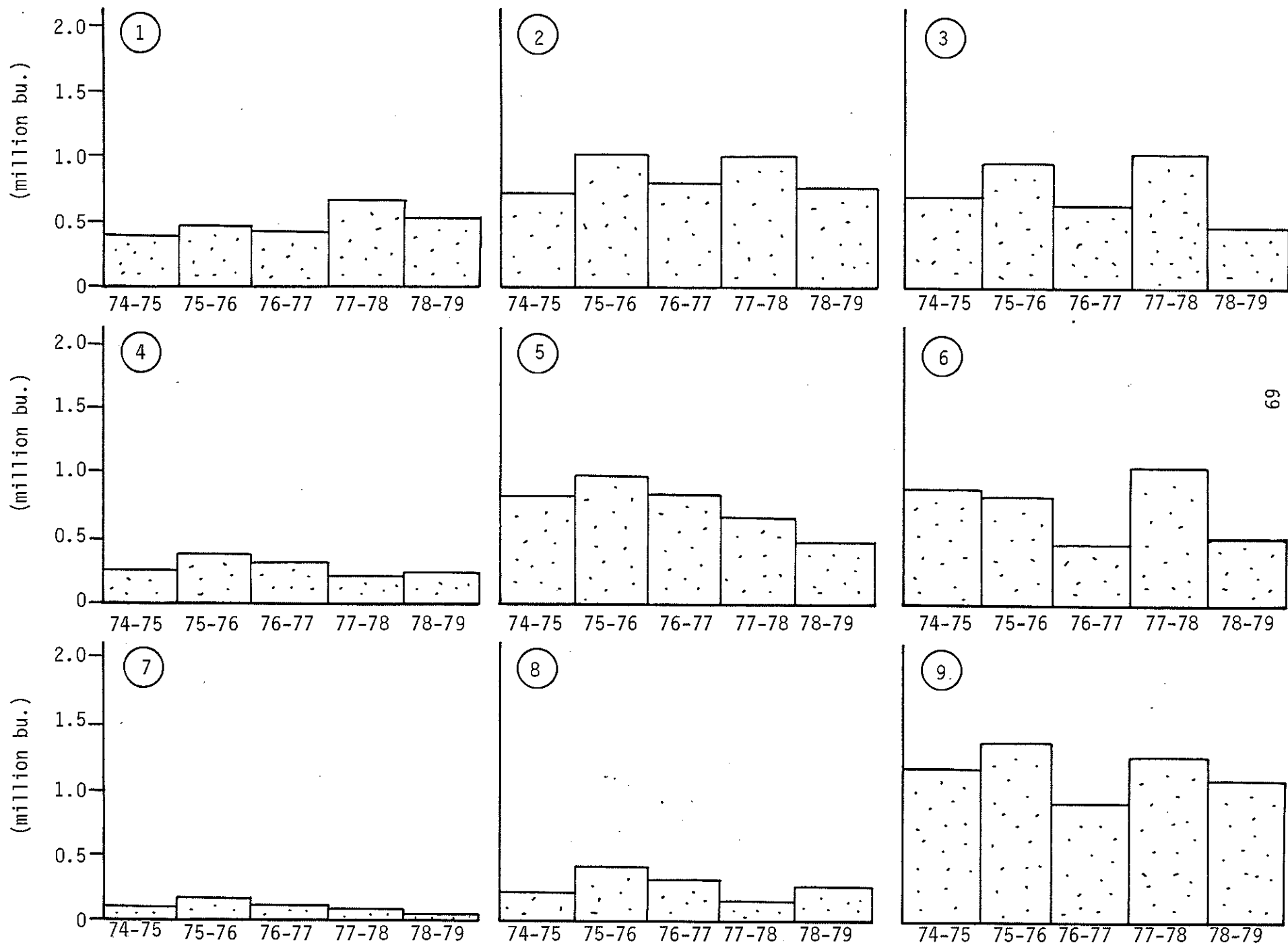


NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)

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)



NORTH DAKOTA FLAXSEED SHIPMENTS BY MONTH  
July, 1978 - June, 1979

