

**NORTH DAKOTA GRAIN AND OILSEED  
TRANSPORTATION STATISTICS  
1979-80**

**By**

**Gene C. Griffin**

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**in cooperation with**

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

**DECEMBER 1980**

## PREFACE

This report represents a continuation of analysis concerned with the patterns and methods of distributing grains and oilseed 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  
1979-80

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.

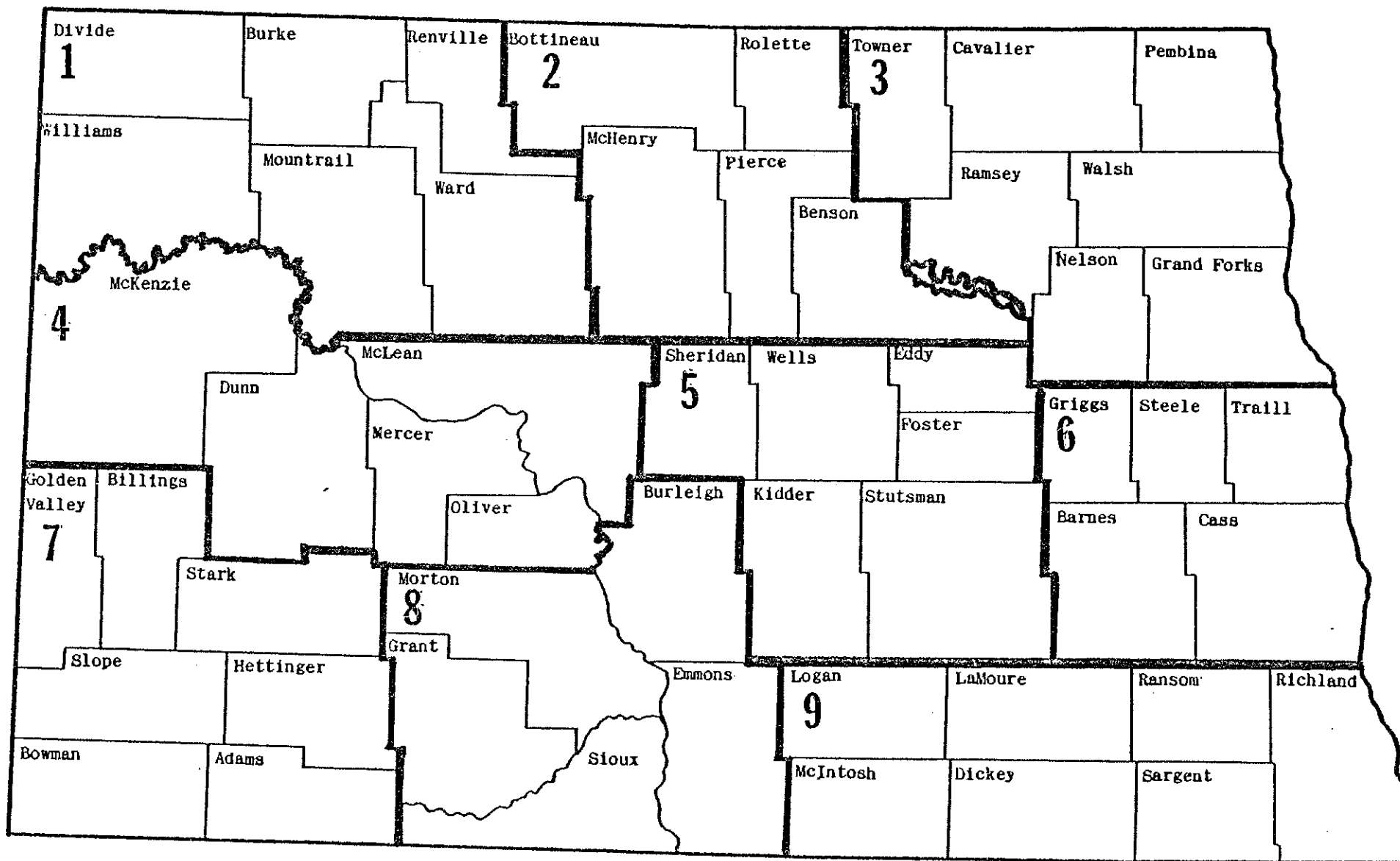
Origin of shipment: The nine crop reporting districts in North Dakota (Figure 1).

Time of shipment: By month, from July, 1979 to June, 1980.

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, 1979 through June, 1980, 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.



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NORTH DAKOTA CROP REPORTING DISTRICTS AND COUNTIES

### 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 1979-80



NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS<sup>a</sup>  
1969-70 to 1980-81

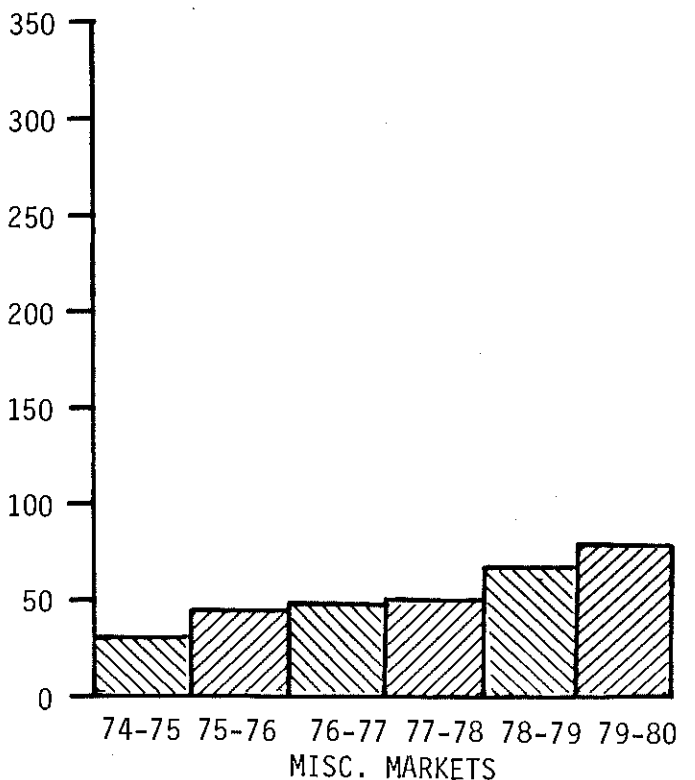
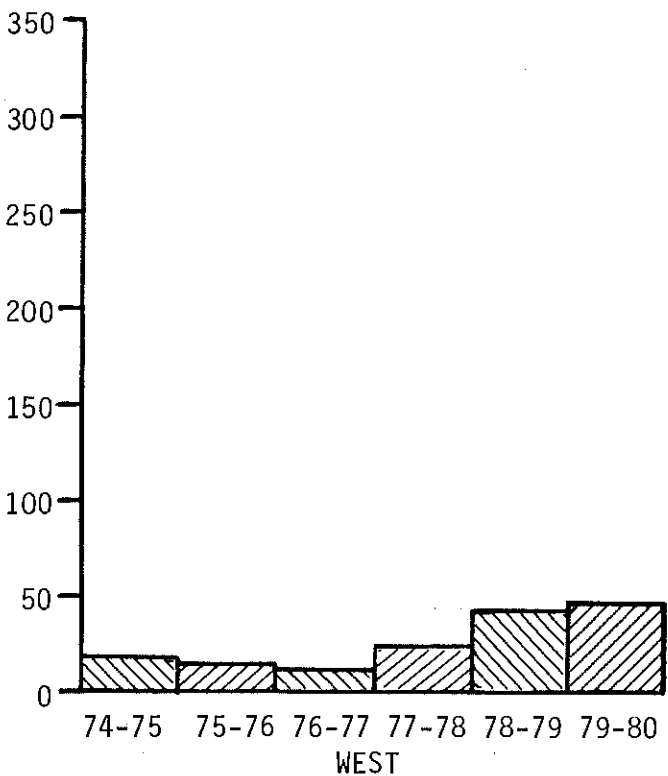
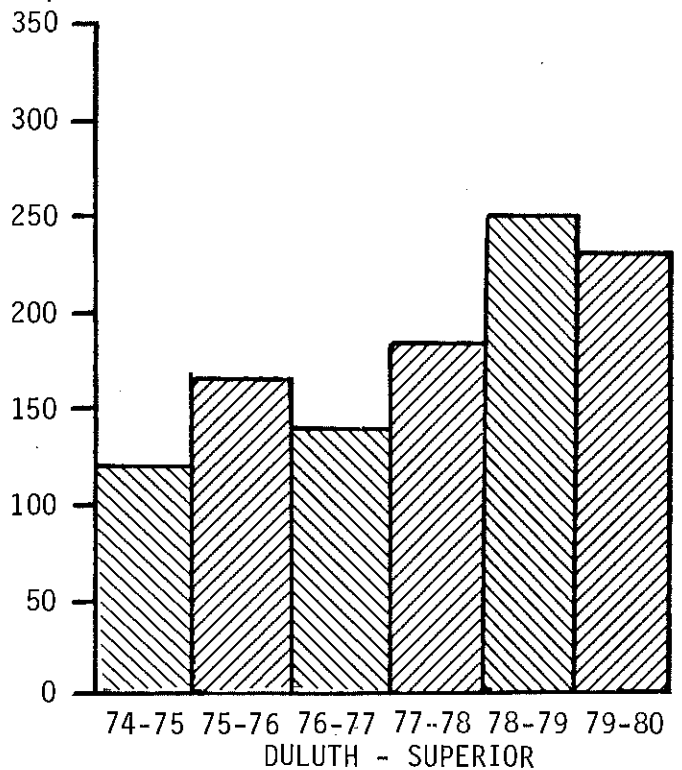
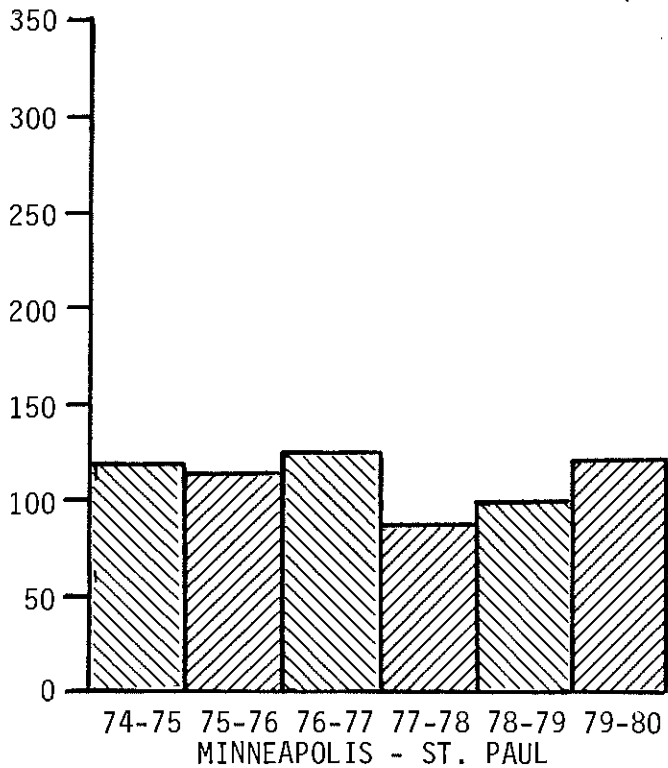
	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)										
HARD RED SPRING	120,330 (39%)	105,800 (35%)	119,944 (40%)	191,696 (44%)	183,567 (45%)	122,934 (42%)	139,361 (44%)	123,976 (41%)	127,953 (36%)	184,923 (41%)	169,573 (36%)
DURUM	58,540 (19%)	57,317 (19%)	66,184 (22%)	83,351 (19%)	60,758 (15%)	68,781 (24%)	74,817 (23%)	65,024 (21%)	88,366 (25%)	88,659 (19%)	94,581 (20%)
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%)	78,621 (17%)
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%)	95,940 (20%)
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%)	7,959 (2%)
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%)	3,598 (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%)	4,580 (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%)	21,212 (4%)
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%)	476,064 (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	1979-80
	(thousand bu.)					
MINNEAPOLIS-ST. PAUL	108,093 (39%)	104,900 (33%)	109,620 (36%)	85,231 (24%)	93,353 (20%)	119,711 (25%)
DULUTH-SUPERIOR	109,585 (40%)	152,514 (48%)	128,044 (42%)	192,925 (54%)	250,653 (55%)	230,544 (48%)
WEST	23,827 (9%)	22,031 (7%)	20,823 (7%)	29,031 (8%)	46,413 (10%)	46,954 (10%)
MISCELLANEOUS MARKETS	33,982 (12%)	40,840 (13%)	47,425 (16%)	51,417 (14%)	65,814 (14%)	78,856 (17%)
TOTAL	275,487 (100%)	320,285 (100%)	305,912 (100%)	358,604 (100%)	456,233 (100%)	476,065 (100%)

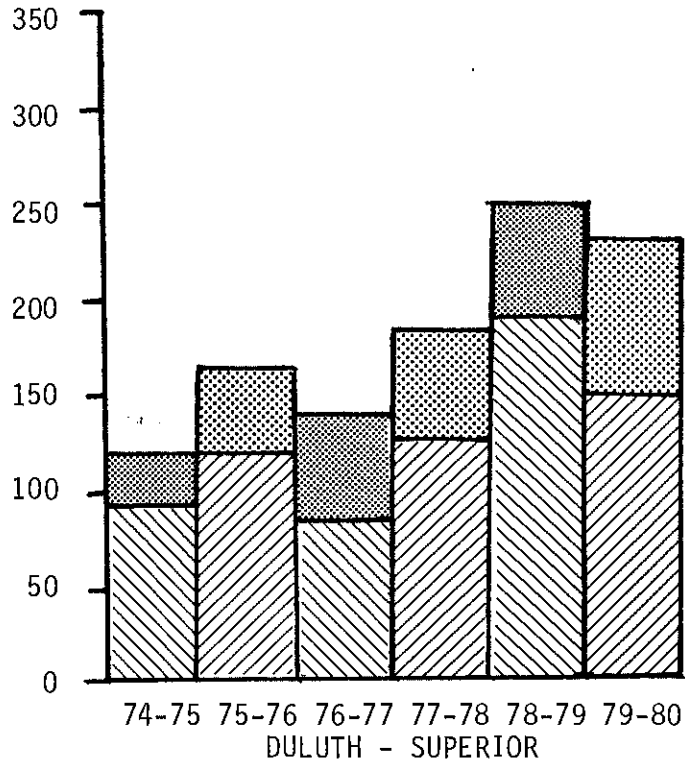
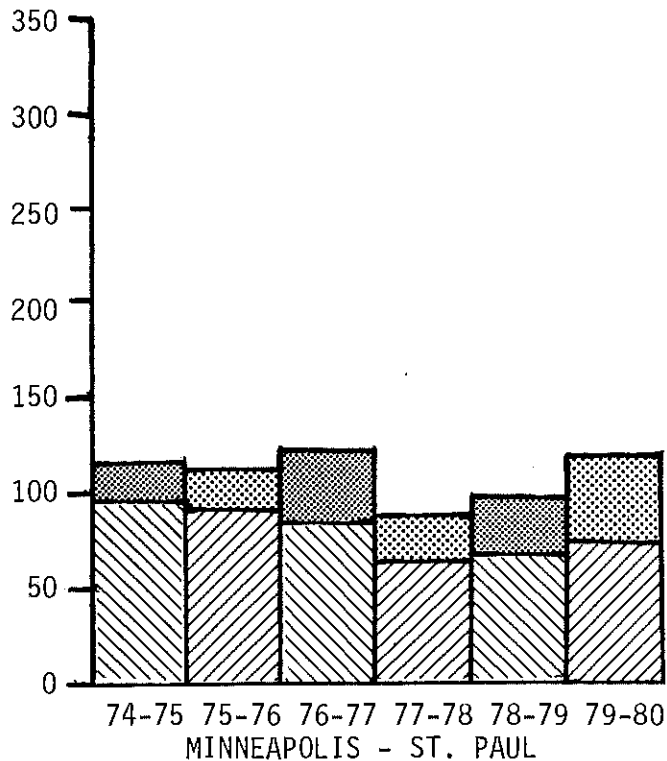
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY DESTINATION  
 1974-75 to 1979-80  
 (million bu.)





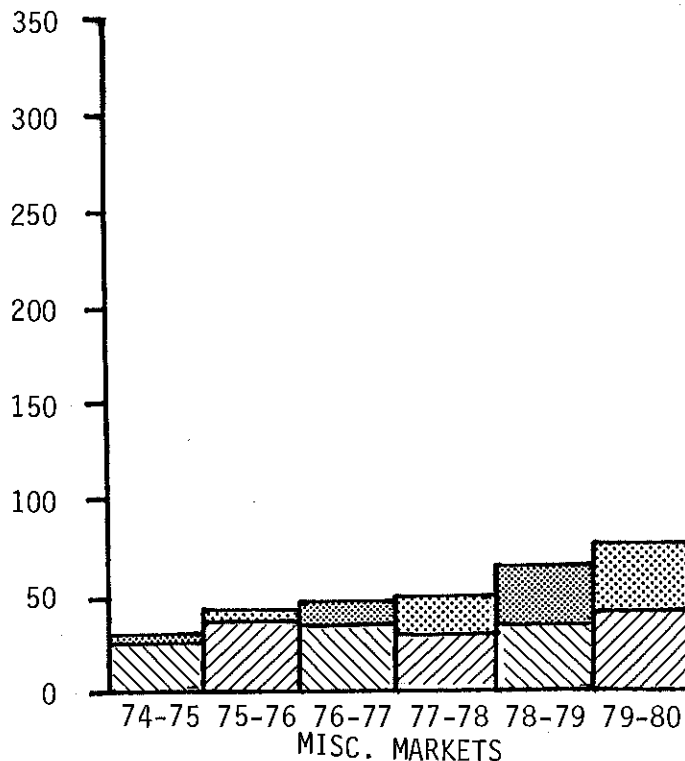
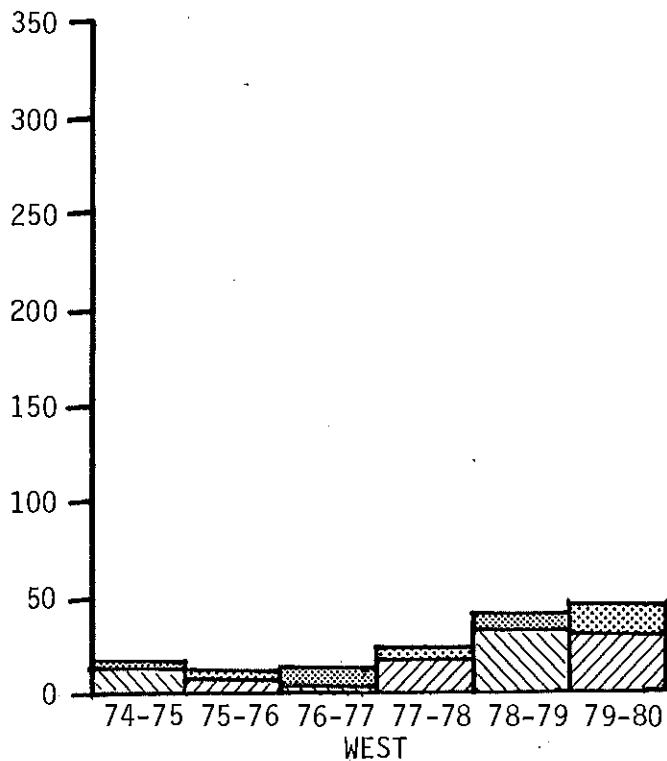
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	RAIL	TRUCK	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%)	138,318 (60%)	92,225 (40%)
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%)	79,040 (66%)	40,672 (34%)
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%)	31,878 (68%)	15,076 (32%)
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%)	45,106 (57%)	33,750 (43%)
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%)	294,342 (62%)	181,724 (38%)

NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION  
(million bu.)



TRUCK   
RAIL 



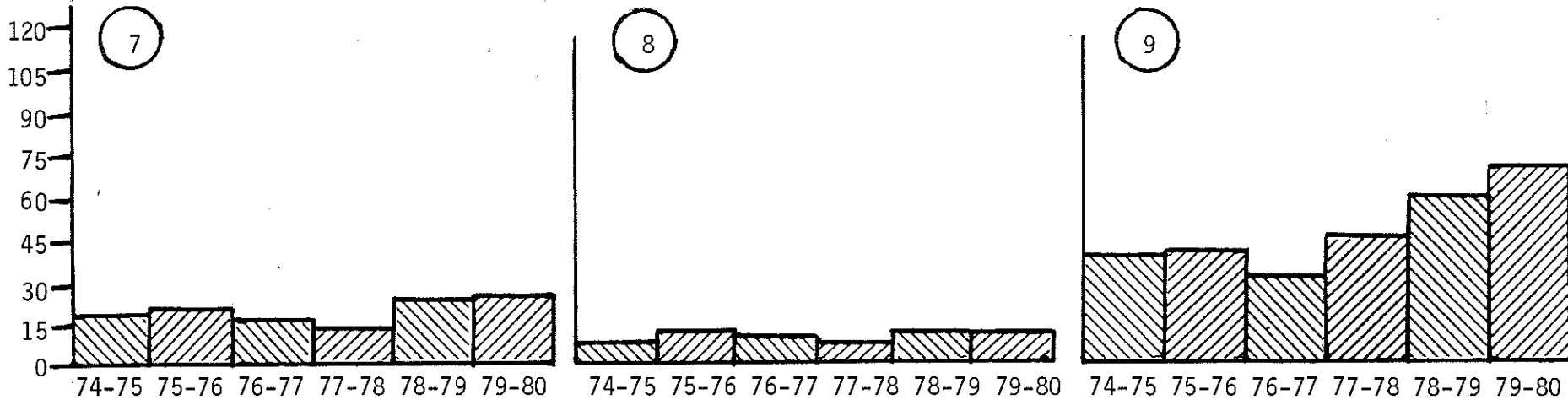
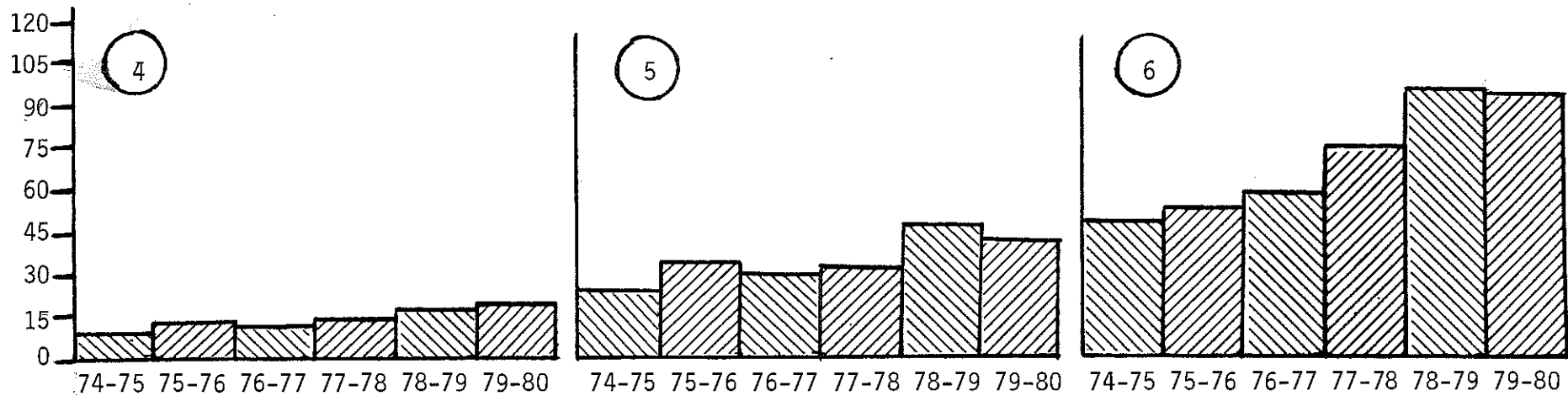
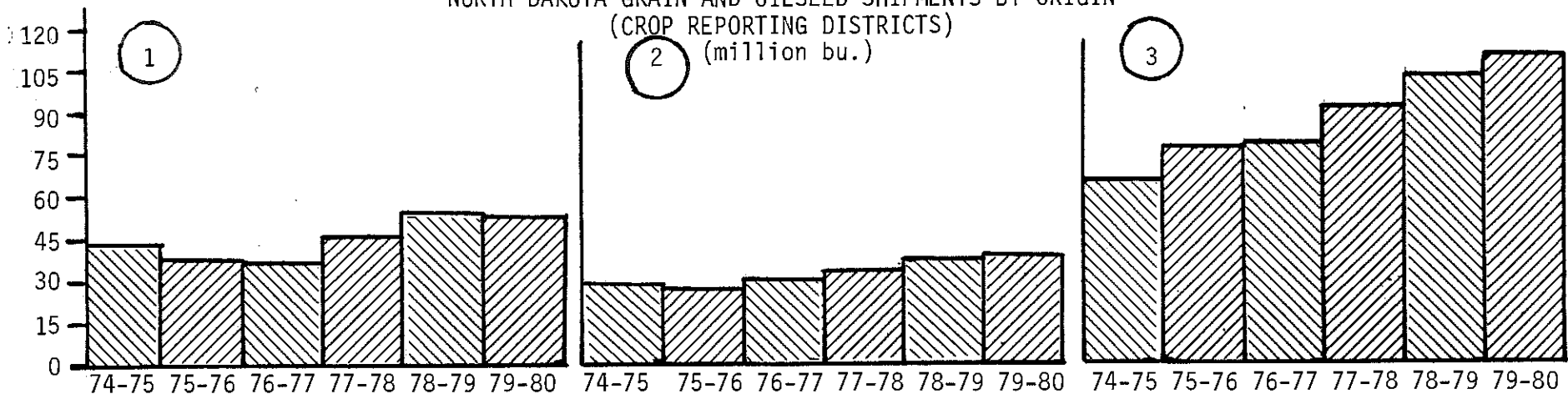
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)<sup>a</sup>

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	44,971 (15%)	39,254 (12%)	38,628 (13%)	47,881 (13%)	55,802 (12%)	55,571 (12%)
2	28,141 (10%)	27,362 (9%)	29,421 (10%)	32,552 (9%)	38,668 (8%)	39,278 (8%)
3	65,398 (22%)	78,193 (24%)	80,085 (26%)	92,607 (26%)	103,393 (23%)	116,150 (24%)
4	10,852 (4%)	13,941 (4%)	13,315 (4%)	14,323 (4%)	17,394 (4%)	18,722 (4%)
5	25,997 (9%)	33,031 (10%)	29,763 (10%)	32,575 (9%)	49,133 (11%)	44,364 (9%)
6	50,683 (17%)	55,875 (17%)	58,924 (19%)	74,423 (21%)	97,722 (21%)	97,513 (20%)
7	19,533 (7%)	20,044 (6%)	17,044 (6%)	14,150 (4%)	23,776 (5%)	24,865 (5%)
8	7,696 (3%)	12,834 (4%)	9,454 (3%)	6,373 (2%)	12,099 (3%)	12,761 (3%)
9	38,311 (13%)	39,748 (12%)	29,280 (10%)	43,721 (12%)	58,249 (13%)	66,843 (14%)
Total	291,582 (100%)	320,282 (100%)	305,914 (100%)	358,605 (100%)	456,236 (100%)	476,067 (100%)

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



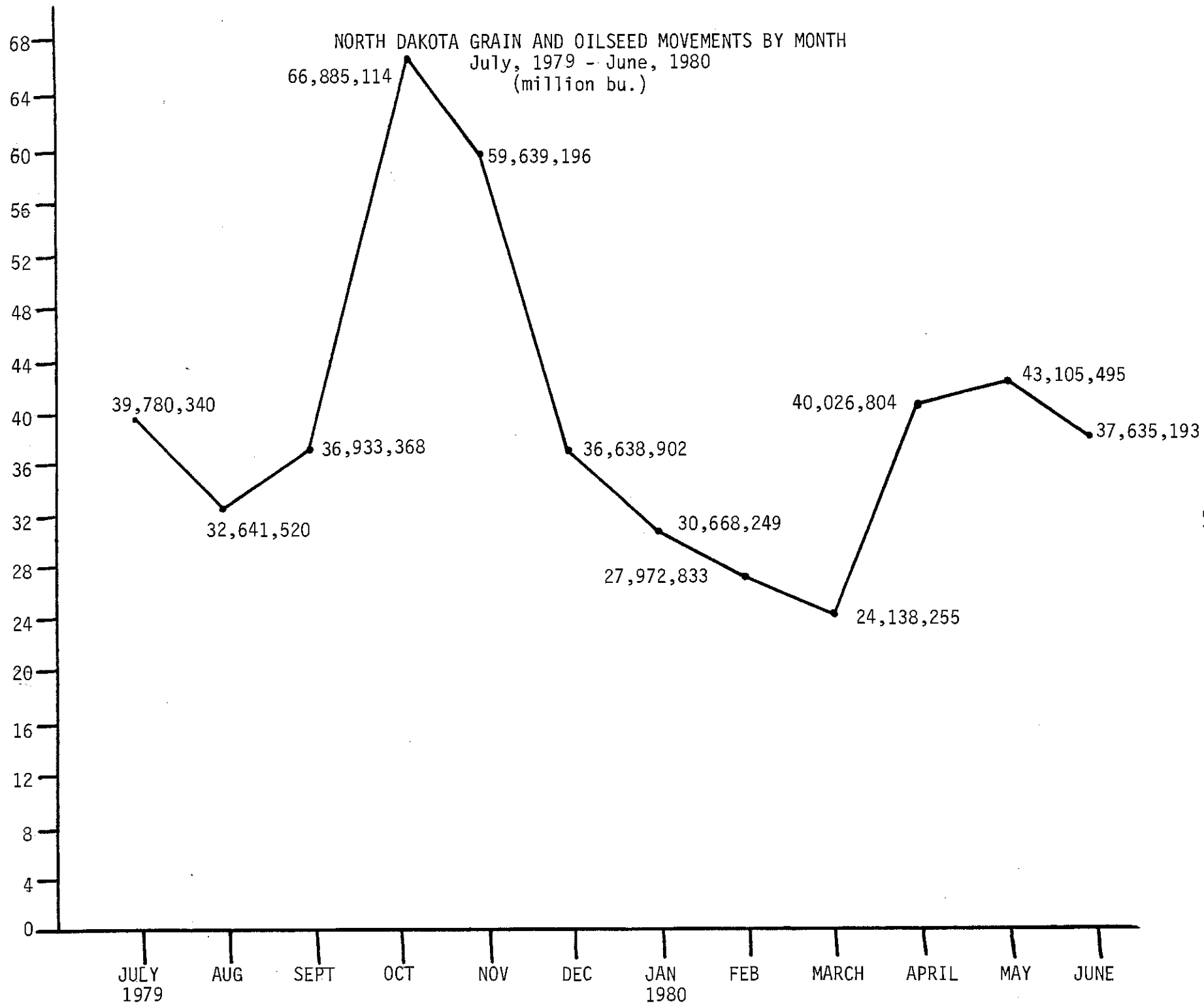
NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICTS)  
(million bu.)



NORTH DAKOTA GRAIN AND OILSEED MOVEMENT BY MONTH  
 July, 1979 - June, 1980  
 (bushels)

	Hard Red Spring	Durum	Rye	Flaxseed	Barley	Oats	Sunflowers	Misc.	Total
July	17,708,155	7,100,274	342,660	368,648	9,455,359	1,259,516	1,988,155	1,557,573	39,780,340
August	14,908,441	6,804,119	476,600	164,702	6,764,299	1,200,793	894,877	1,427,689	32,641,520
September	17,610,842	9,812,979	213,068	721,283	5,351,362	591,711	1,406,149	1,225,974	36,933,368
October	19,067,033	14,750,957	624,292	564,608	5,882,601	386,176	23,793,480	1,815,967	66,885,114
November	15,384,663	11,594,833	211,071	279,965	5,948,925	655,538	21,439,436	4,124,765	59,639,196
December	15,347,329	6,001,942	316,307	351,566	5,227,947	695,172	6,793,559	1,905,080	36,638,902
January	12,322,591	5,687,062	292,837	472,658	5,933,167	611,157	3,467,203	1,881,574	30,668,249
February	9,369,622	7,293,994	195,224	415,413	4,257,373	596,014	4,066,827	1,778,366	27,972,833
March	8,563,844	4,274,246	254,320	555,176	4,872,642	664,284	3,846,153	1,107,590	24,138,255
April	12,943,455	8,257,062	77,823	225,126	8,411,067	473,410	8,471,591	1,167,270	40,026,804
May	14,969,214	6,766,903	110,592	136,312	8,388,122	341,028	11,076,067	1,317,257	43,105,495
June	11,377,240	6,236,923	483,436	325,838	8,127,832	484,103	8,696,899	1,902,922	37,635,193
Totals	169,572,429	94,581,294	3,598,230	4,581,295	78,620,696	7,958,902	95,940,396	21,212,027	476,065,269

NORTH DAKOTA GRAIN AND OILSEED MOVEMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

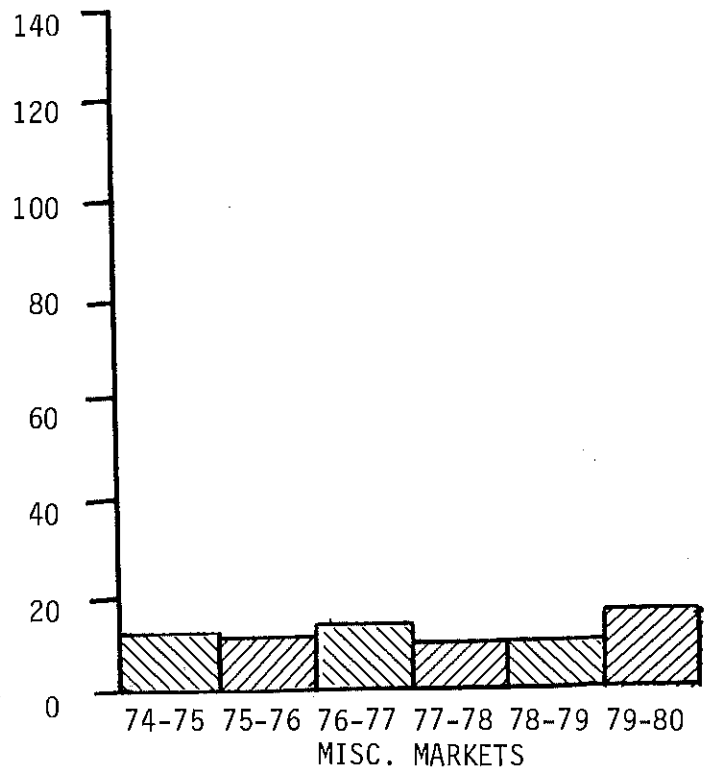
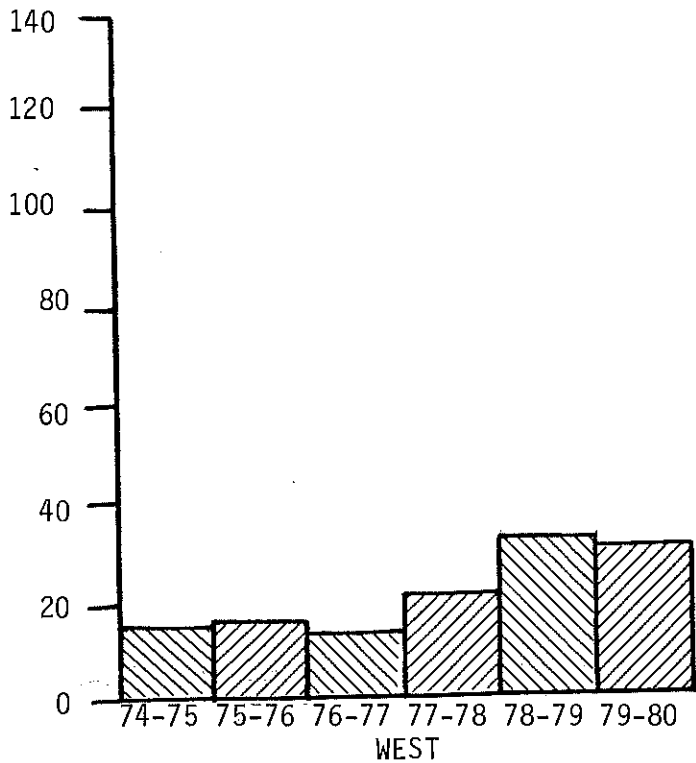
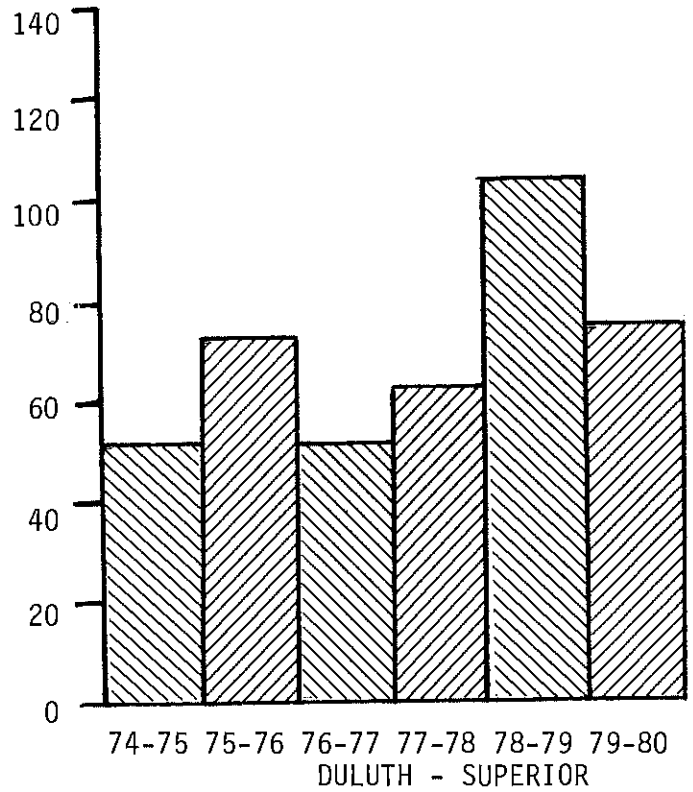
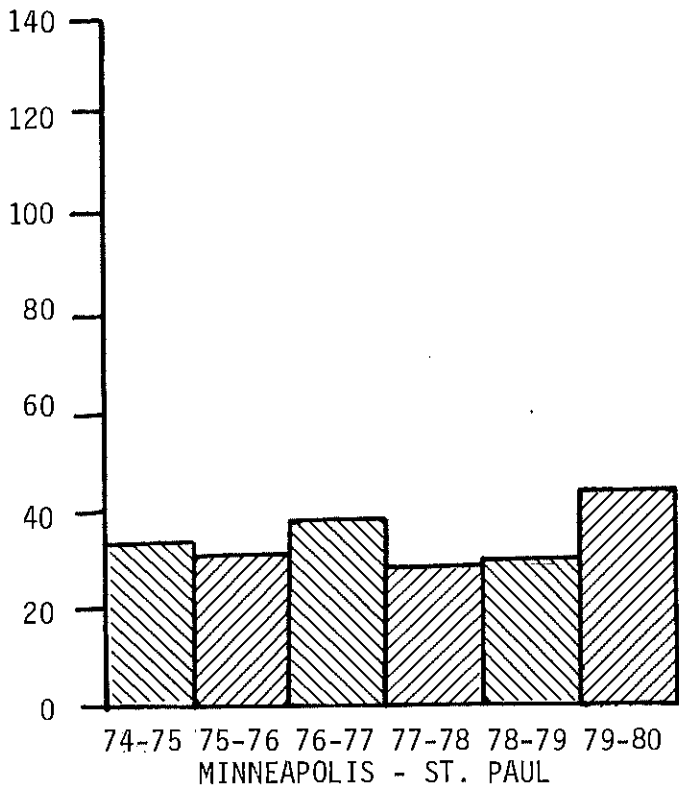


**HARD RED SPRING  
WHEAT MOVEMENTS**

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS-ST. PAUL	35,485 (29%)	32,855 (24%)	38,230 (31%)	28,199 (22%)	28,846 (16%)	44,031 (26)
DULUTH-SUPERIOR	54,419 (44%)	74,467 (53%)	53,419 (43%)	65,832 (51%)	108,717 (59%)	76,887 (45)
WEST	17,713 (14%)	17,788 (13%)	16,675 (13%)	21,502 (17%)	34,818 (19%)	31,377 (19)
MISCELLANEOUS MARKETS	15,317 (12%)	14,253 (10%)	15,651 (13%)	12,420 (10%)	12,542 (7%)	17,278 (10)
TOTAL	122,934 (100%)	139,363 (100%)	123,975 (100%)	127,953 (100%)	184,923 (100%)	169,573 (100%)

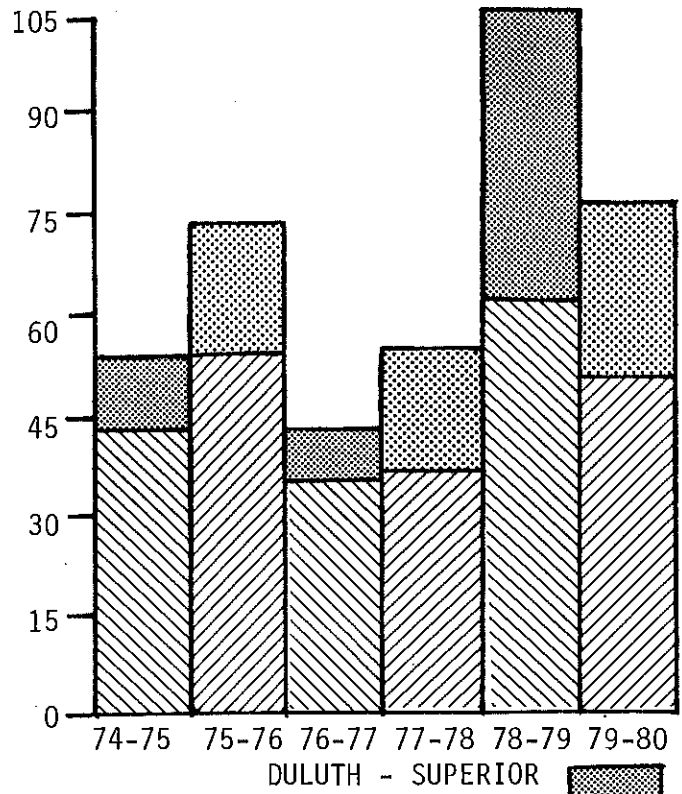
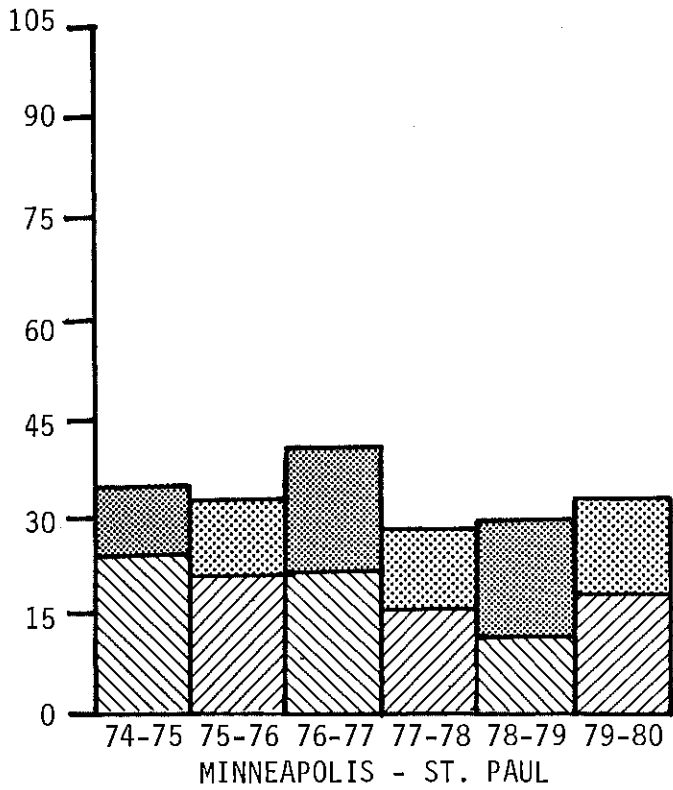
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY DESTINATION  
(million bu.)



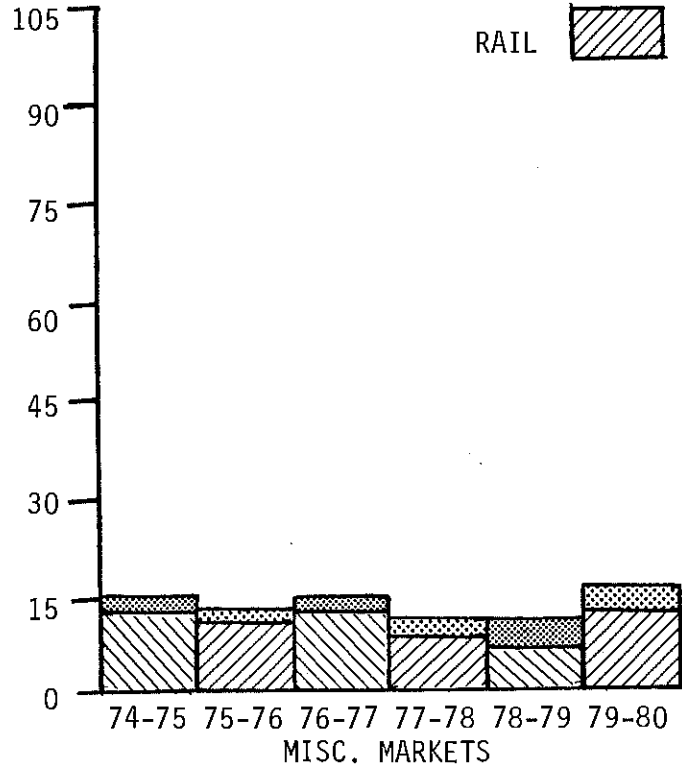
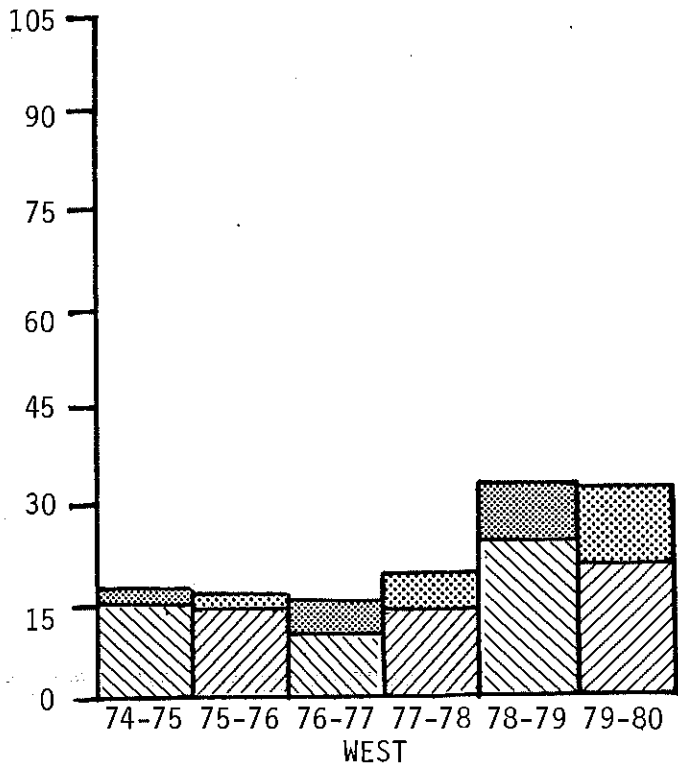
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	22,476 (51%)	21,555 (49%)
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%)	51,971 (67%)	25,208 (33%)
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%)	19,337 (62%)	12,040 (38%)
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%)	12,481 (72%)	4,796 (28%)
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%)	106,265 (63%)	63,599 (37%)

NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
 BY RAIL AND TRUCK AND DESTINATION  
 (million bu.)



TRUCK  
 RAIL

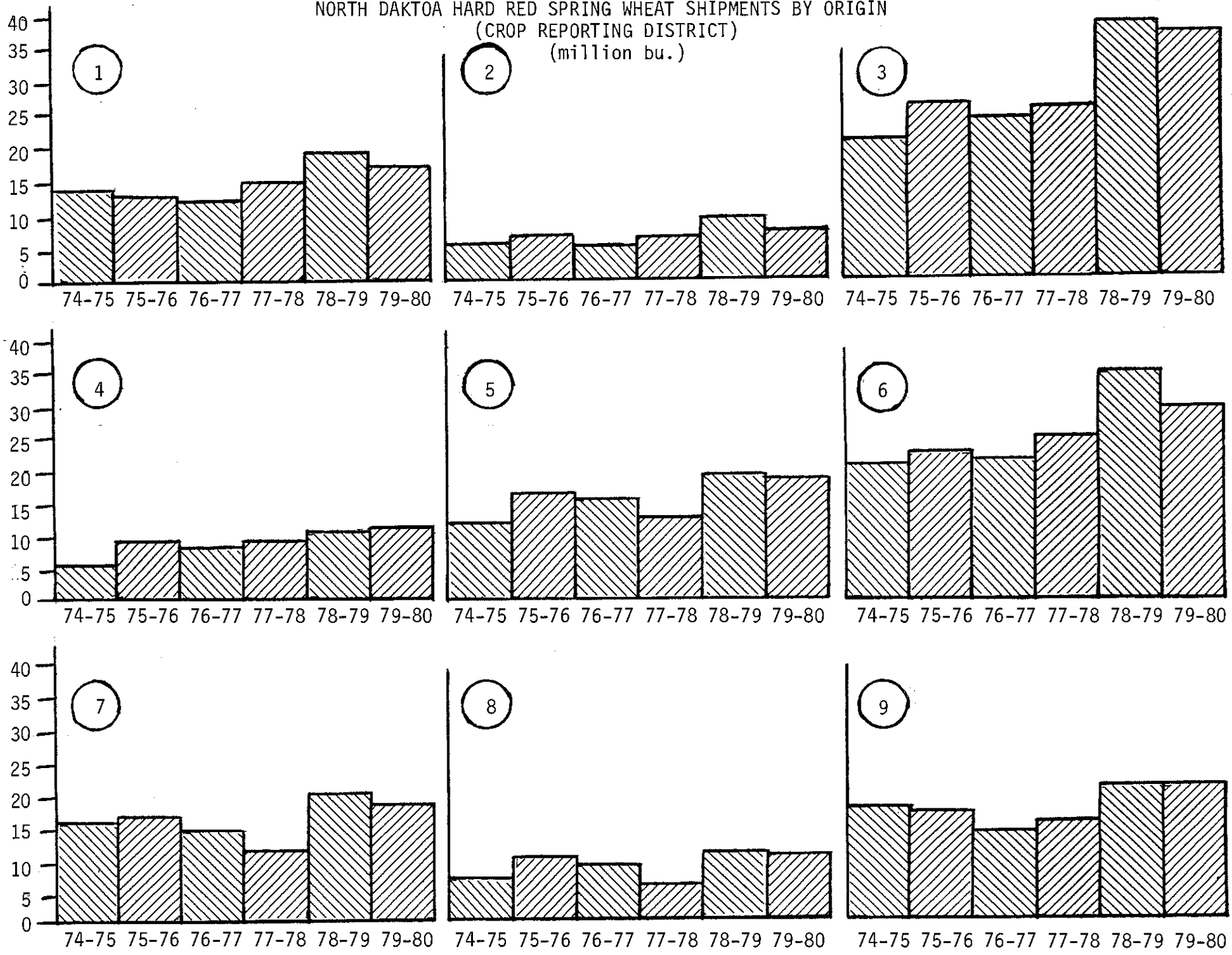




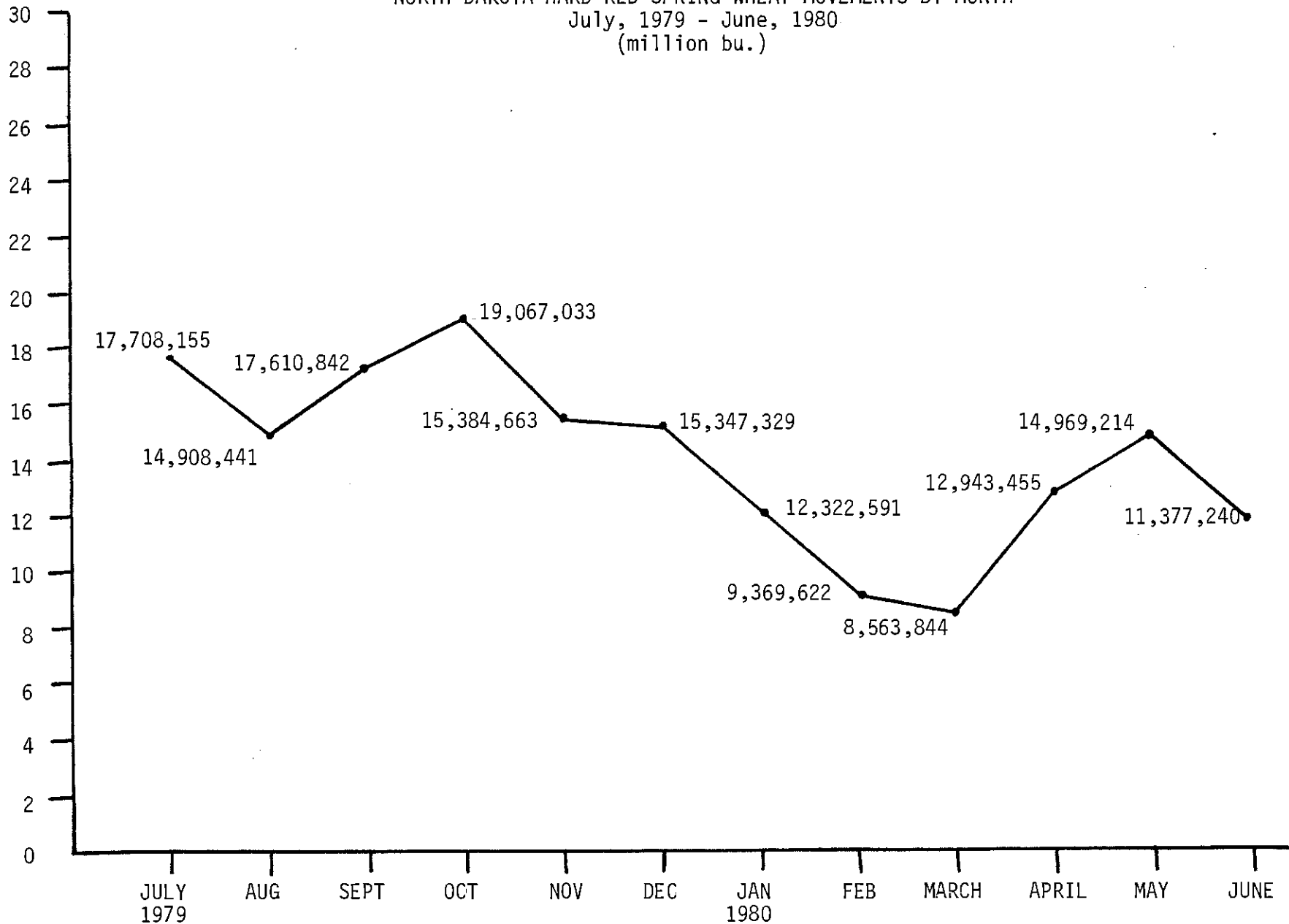
NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	14,472	13,179	12,657	15,009	19,640	17,678
2	6,279	7,872	6,807	7,370	10,028	8,124
3	22,893	27,698	24,053	27,331	38,757	35,407
4	6,955	8,821	8,209	8,477	11,116	11,230
5	11,473	15,695	15,253	12,521	18,546	17,253
6	21,393	22,962	22,000	25,013	35,435	29,088
7	16,138	16,422	14,182	11,563	20,117	19,327
8	6,609	9,993	7,782	5,567	10,317	10,284
9	16,720	16,720	13,033	15,103	20,977	21,182
TOTAL	122,932	139,362	123,976	127,954	184,923	169,573

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



NORTH DAKOTA HARD RED SPRING WHEAT MOVEMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

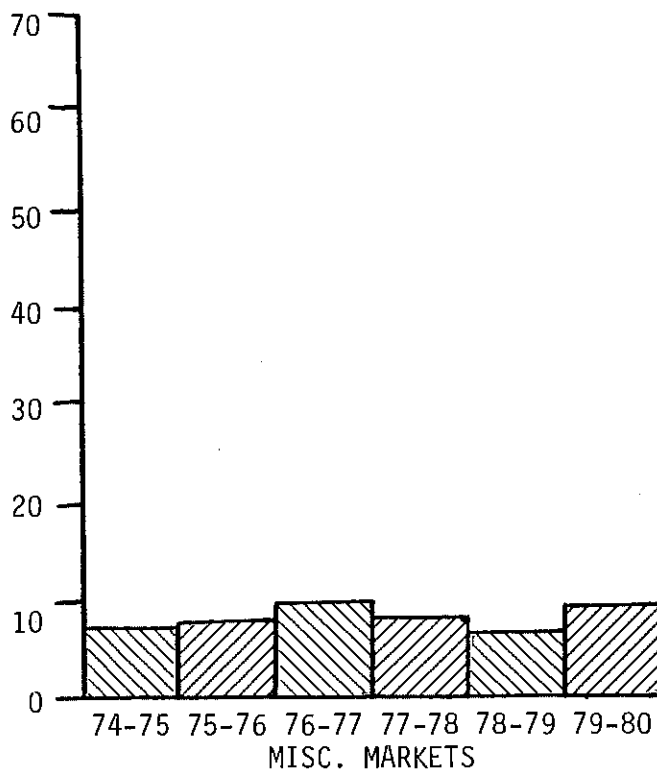
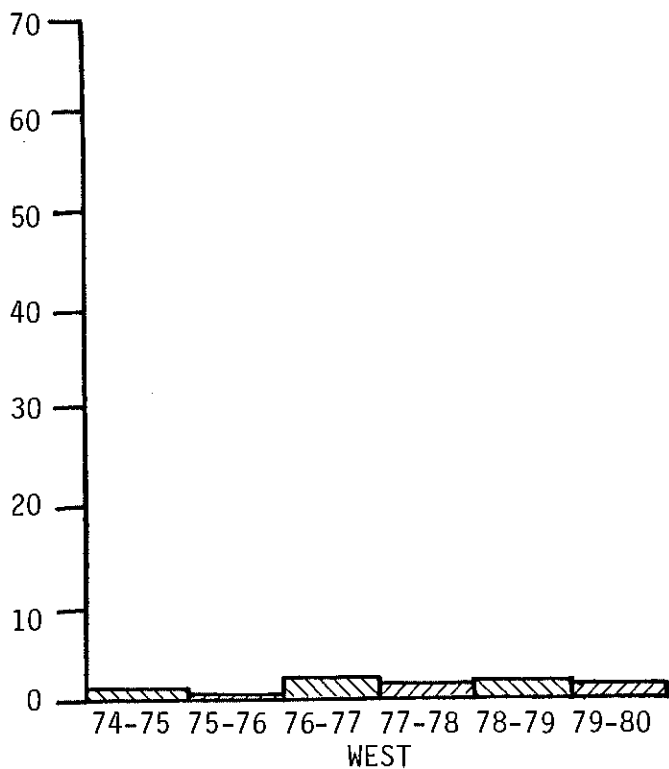
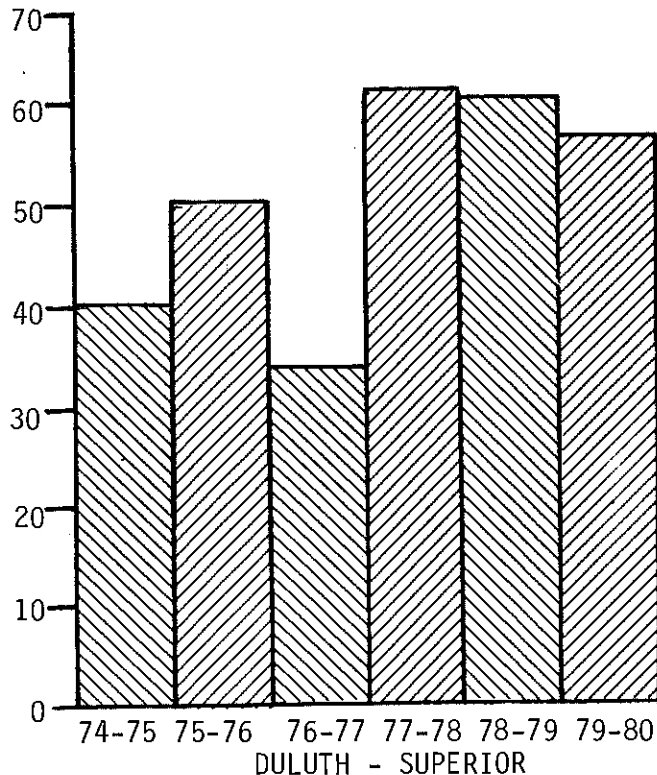
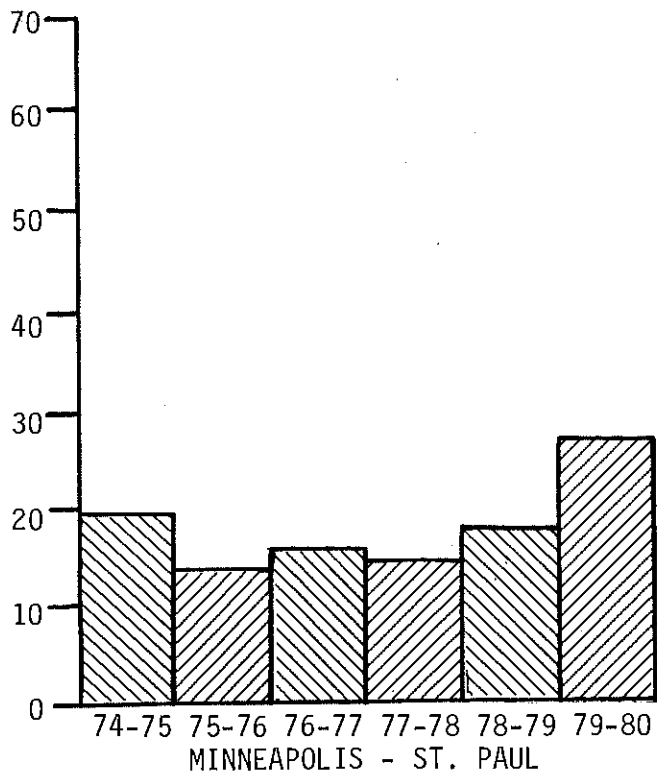


**DURUM WHEAT  
MOVEMENTS**

NORTH DAKOTA DURUM SHIPMENTS  
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS - ST. PAUL	19,455 (28%)	14,905 (20%)	17,024 (26%)	16,478 (19%)	18,797 (21%)	26,712 (28%)
DULUTH - SUPERIOR	40,728 (59%)	51,553 (69%)	35,537 (55%)	61,990 (70%)	60,973 (69%)	57,379 (61%)
WEST	847 (1%)	434 (1%)	1,636 (3%)	1,339 (2%)	1,545 (2%)	1,506 (2%)
MISCELLANEOUS MARKETS	7,751 (11%)	7,925 (11%)	10,827 (17%)	8,559 (10%)	7,345 (8%)	8,985 (9%)
TOTAL	68,781 (100%)	74,817 (100%)	65,024 (100%)	88,366 (100%)	88,660 (100%)	94,582 (100%)

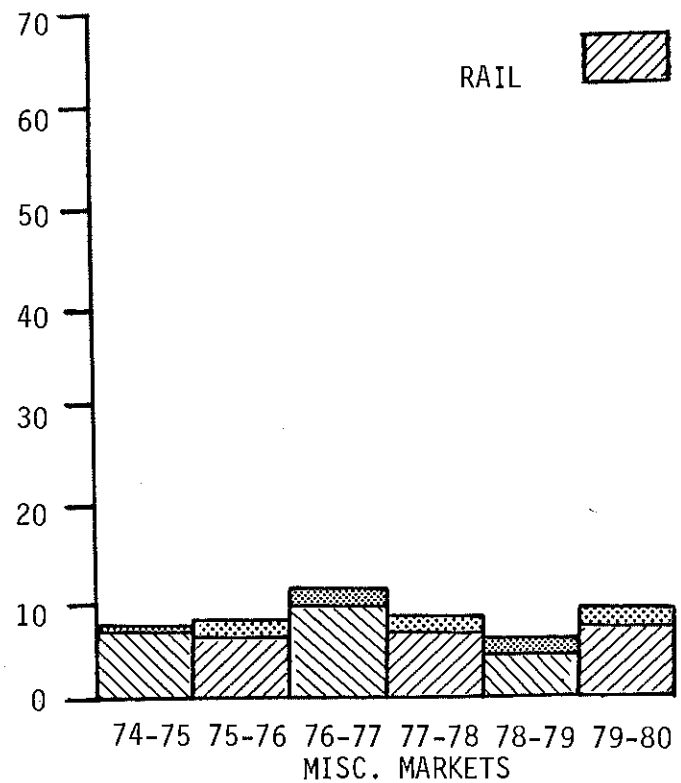
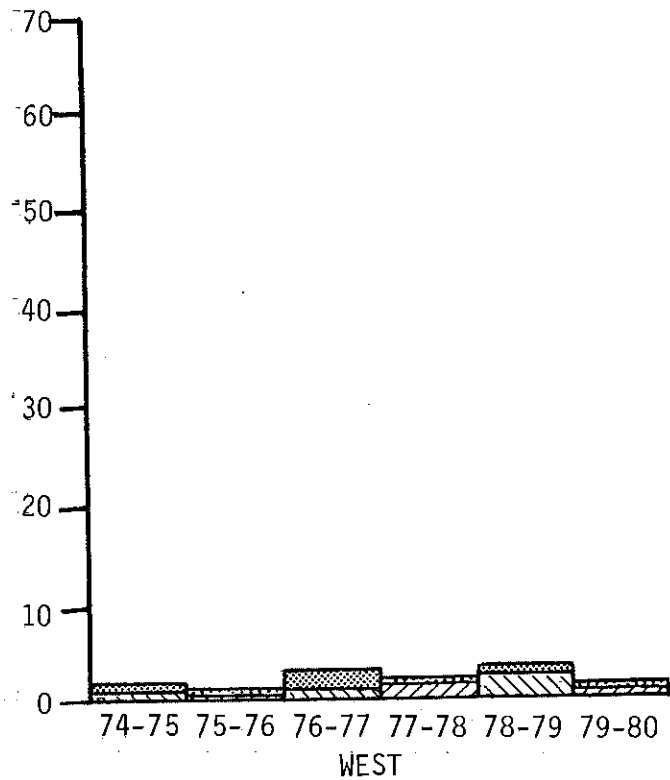
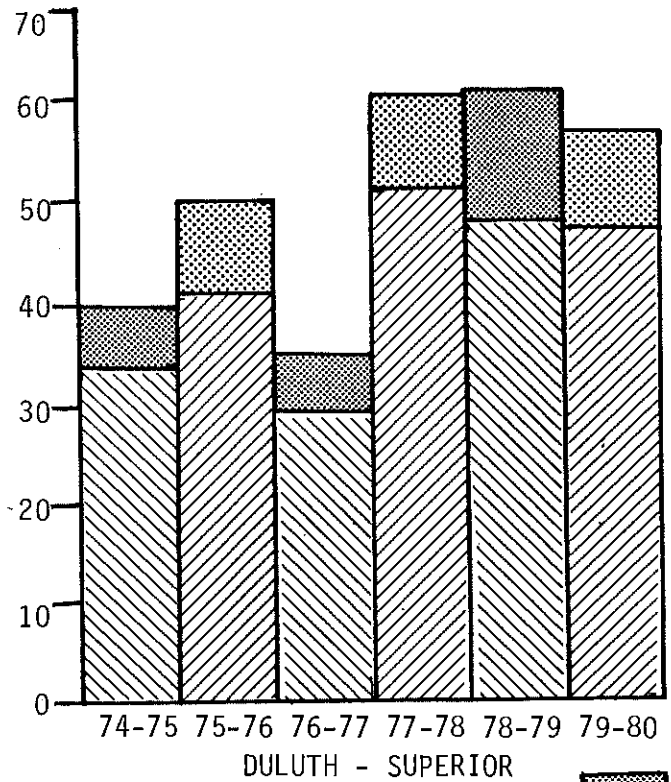
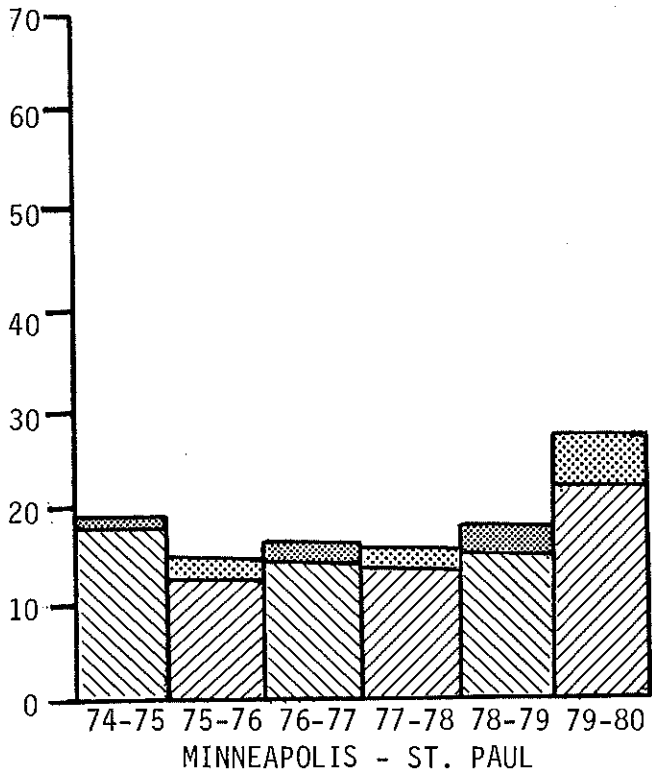
NORTH DAKOTA DURUM SHIPMENTS  
BY DESTINATION  
(million bu.)





NORTH DAKOTA DURUM SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	22,408 (81%)	4,304 (19%)
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%)	48,415 (84%)	8,964 (16%)
WEST	608 (72%)	239 (28%)	263 (61%)	171 (39%)	481 (29%)	1,155 (71%)	871 (65%)	468 (35%)	1,341 (87%)	203 (13%)	1,254 (83%)	252 (17%)
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%)	7,178 (80%)	1,807 (20%)
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%)	79,255 (84%)	15,327 (16%)

NORTH DAKOTA DURUM SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION  
(million bu.)



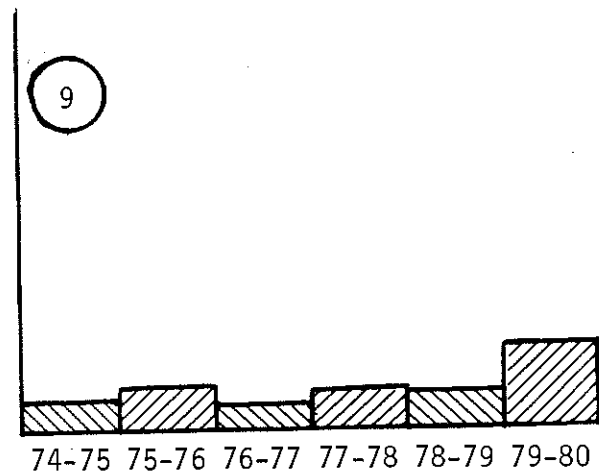
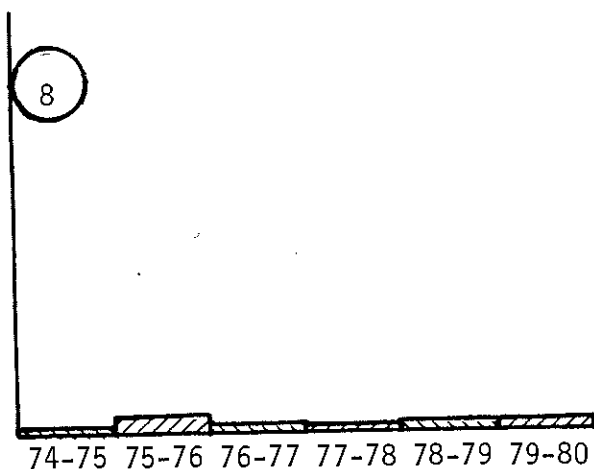
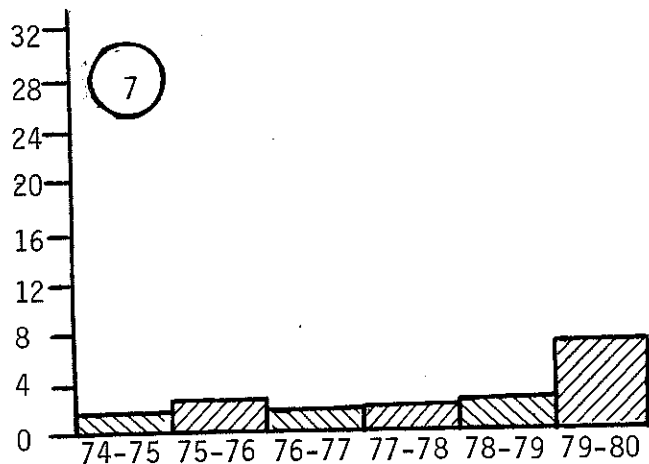
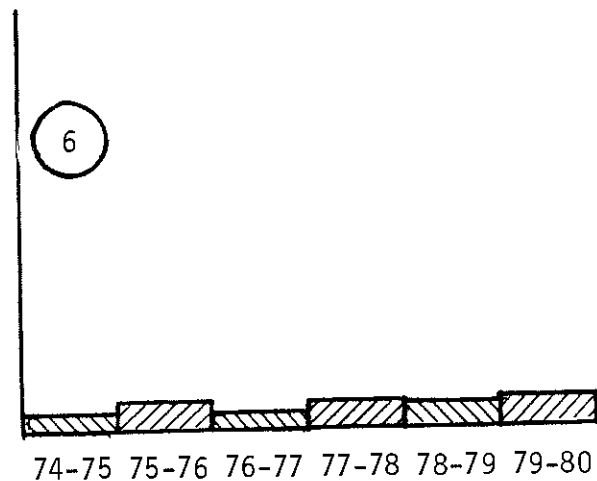
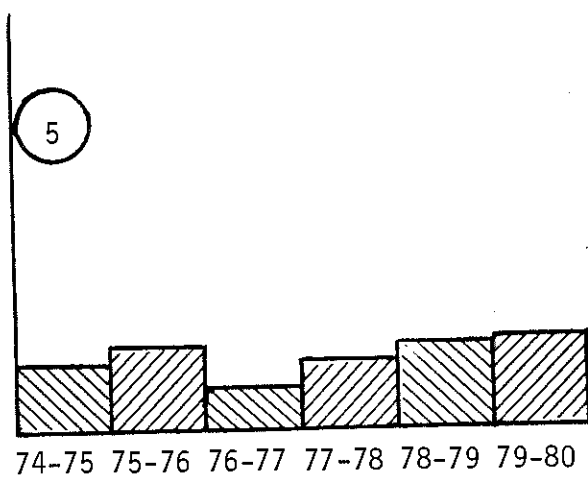
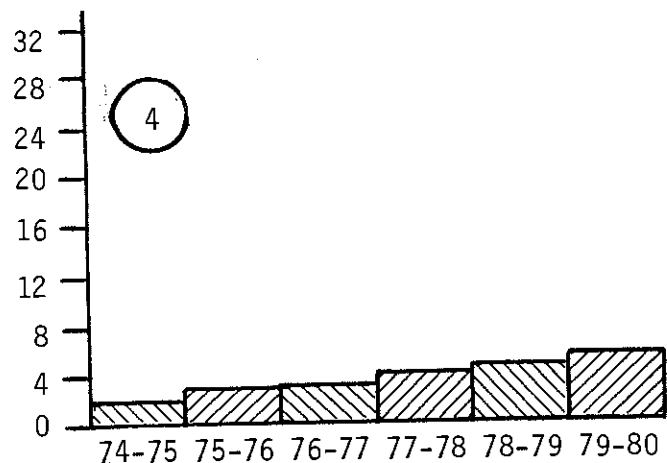
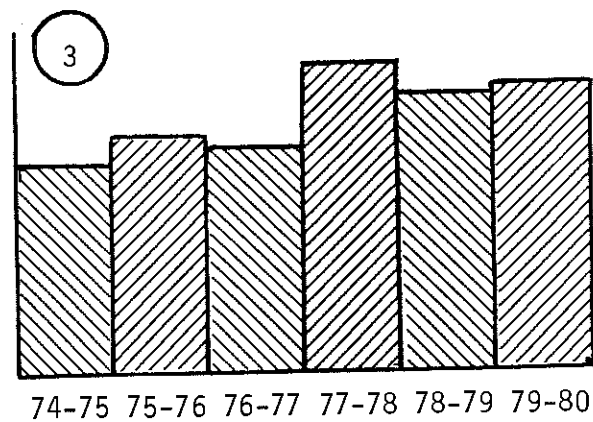
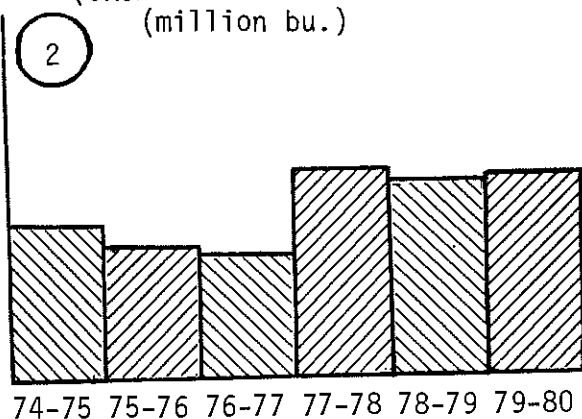
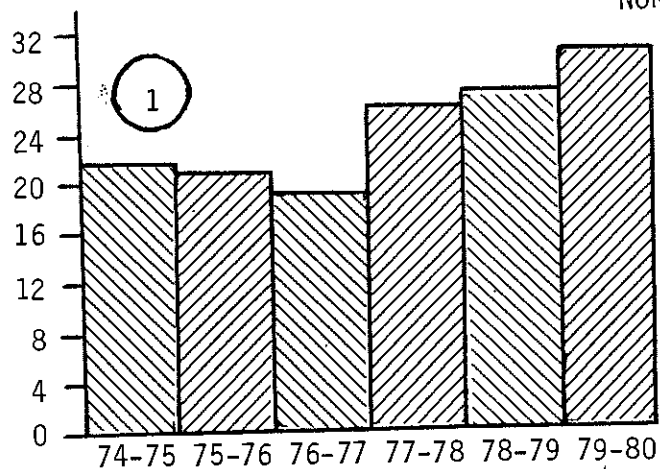
TRUCK   
RAIL 



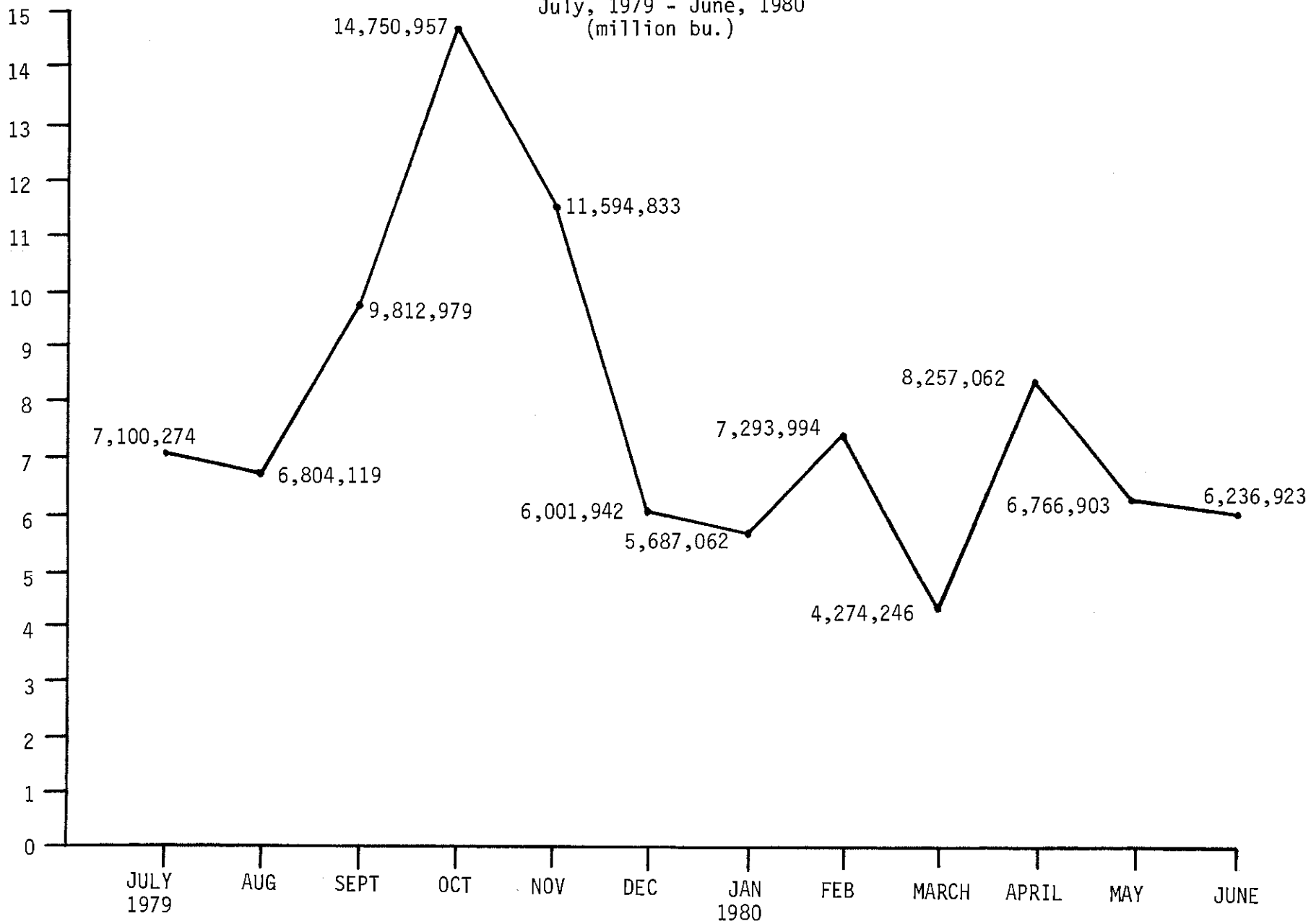
NORTH DAKOTA DURUM SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	22,973	21,573	19,420	26,813	27,496	29,060
2	12,685	11,404	11,279	16,378	16,256	16,472
3	17,326	19,272	18,168	25,707	22,902	24,453
4	2,717	3,696	3,728	4,449	4,808	5,512
5	5,466	7,270	4,960	5,945	7,269	7,670
6	2,555	3,558	2,573	3,269	3,251	3,432
7	1,871	2,844	2,013	2,071	2,755	3,619
8	543	1,331	760	469	728	800
9	2,642	3,870	2,123	3,266	3,197	3,565
TOTAL	68,778	74,818	65,024	88,367	88,662	94,583

NORTH DAKOTA DURUM SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)  
(million bu.)



NORTH DAKOTA DURUM SHIPMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

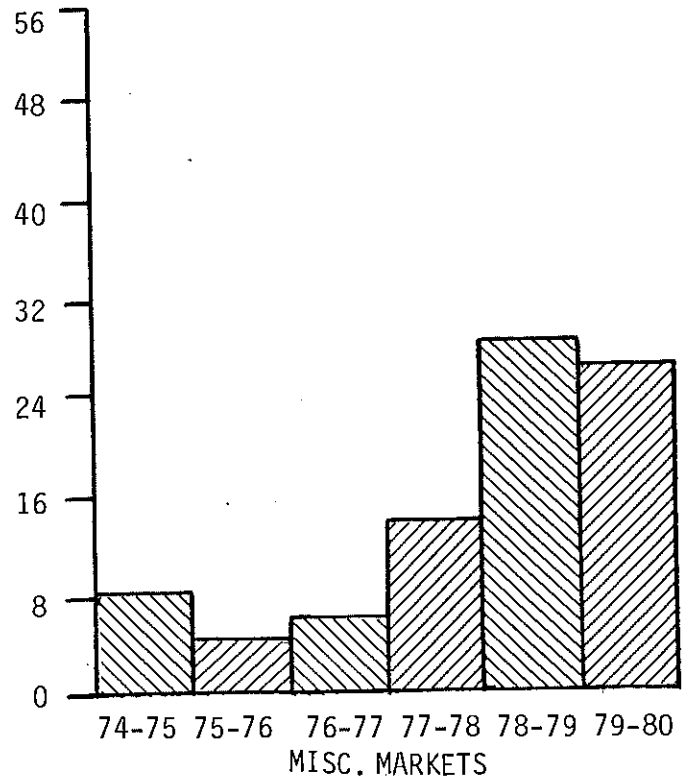
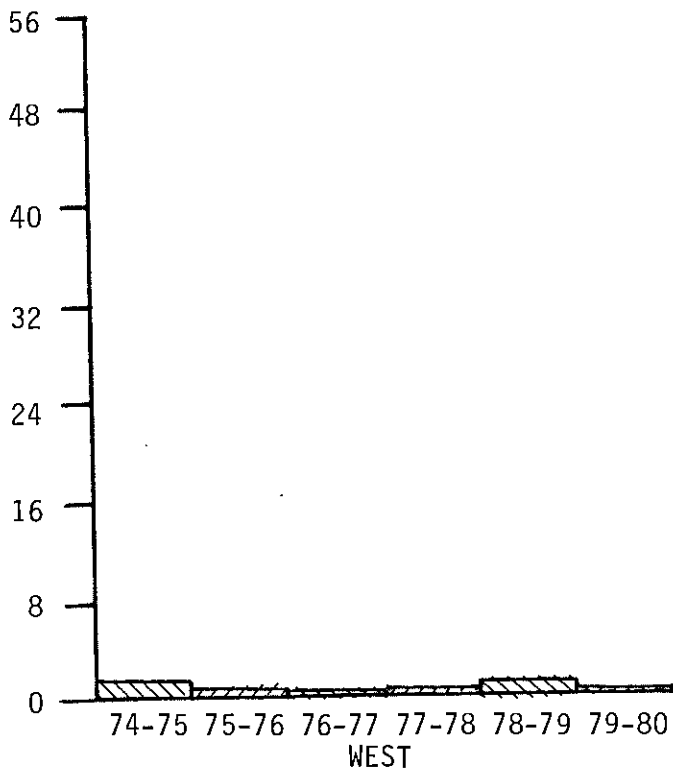
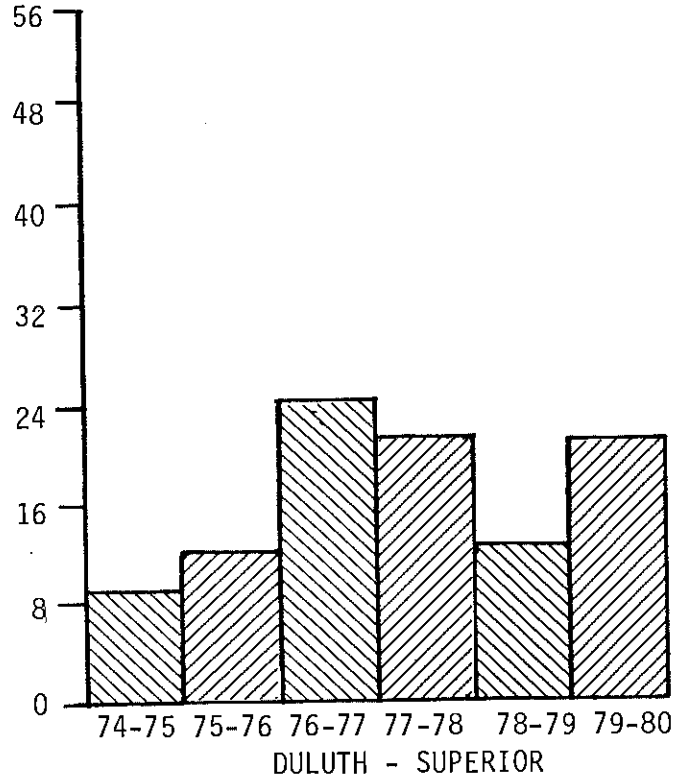
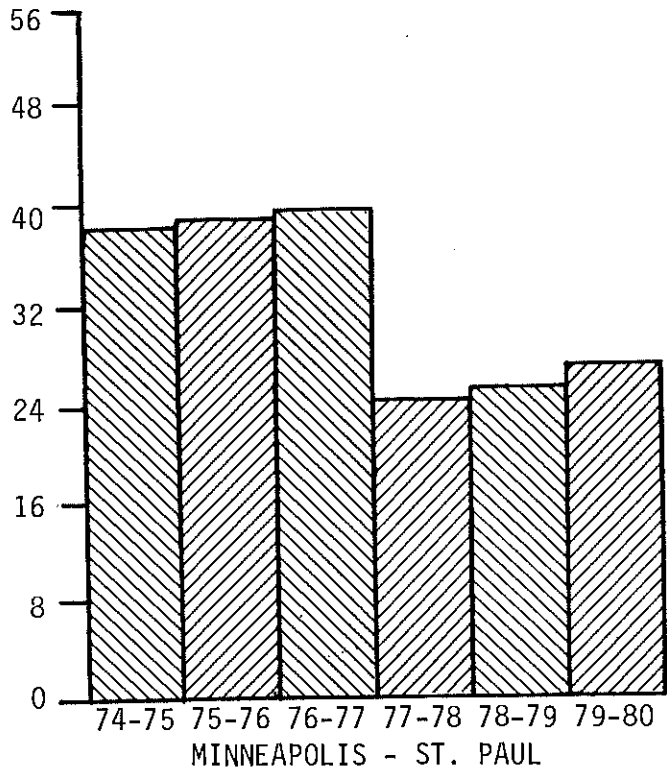


**BARLEY  
MOVEMENTS**

NORTH DAKOTA BARLEY SHIPMENTS  
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS - ST. PAUL	37,461 (66%)	38,710 (69%)	39,728 (54%)	25,006 (40%)	27,092 (39%)	29,169 (37%)
DULUTH - SUPERIOR	9,204 (16%)	12,346 (22%)	26,672 (36%)	22,394 (35%)	12,786 (18%)	22,643 (29%)
WEST	1,652 (3%)	893 (2%)	126 (1%)	792 (1%)	1,204 (2%)	753 (1%)
MISCELLANEOUS MARKETS	8,360 (15%)	4,405 (8%)	6,788 (9%)	14,923 (24%)	28,566 (41%)	26,056 (33%)
TOTAL	56,677 (100%)	56,354 (100%)	73,314 (100%)	63,115 (100%)	69,648 (100%)	78,621 (100%)

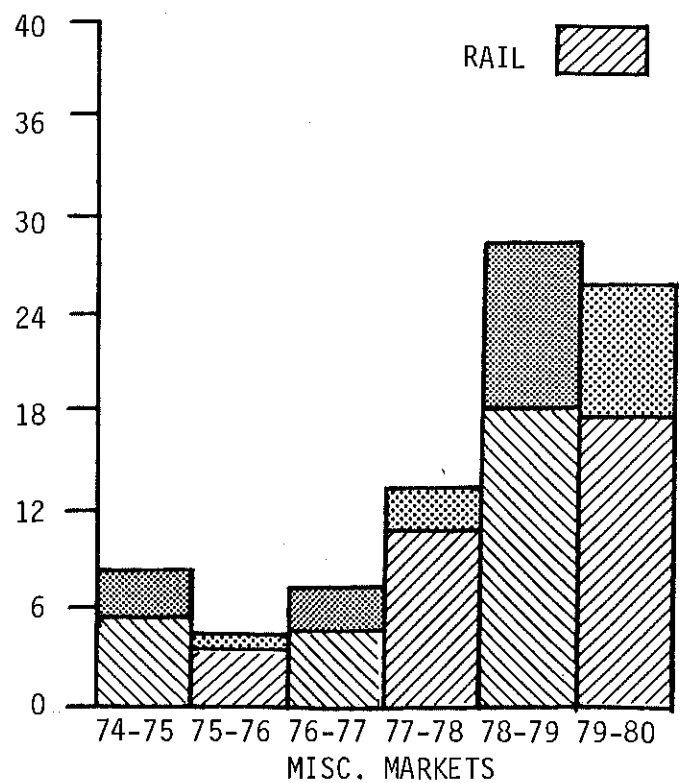
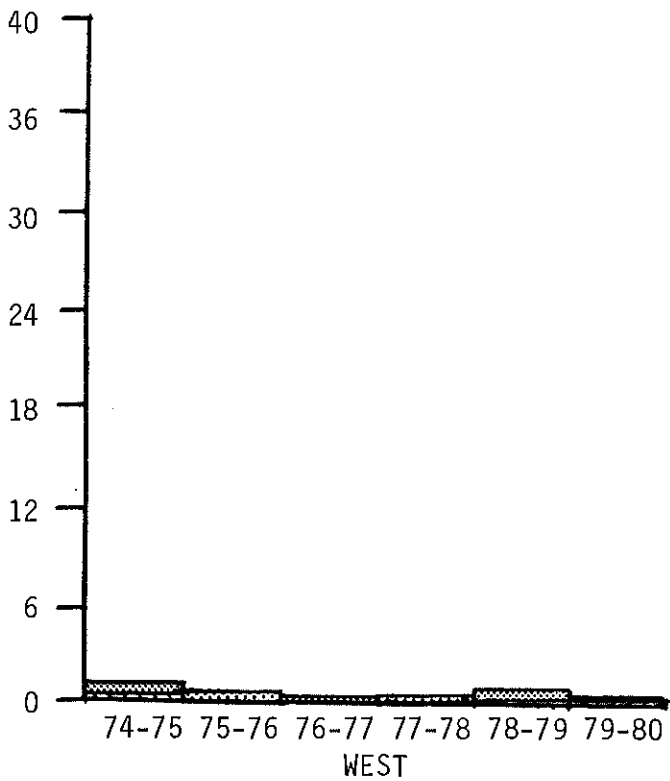
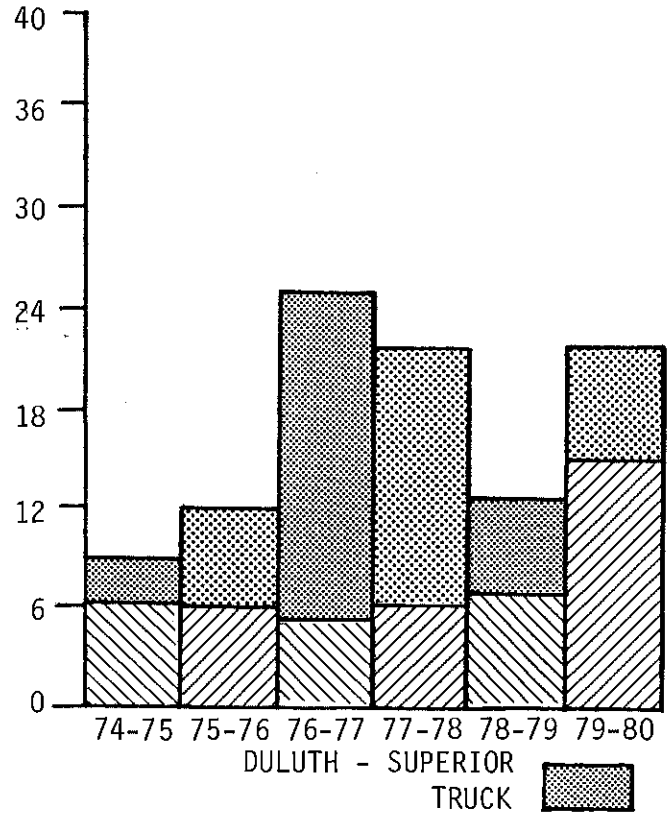
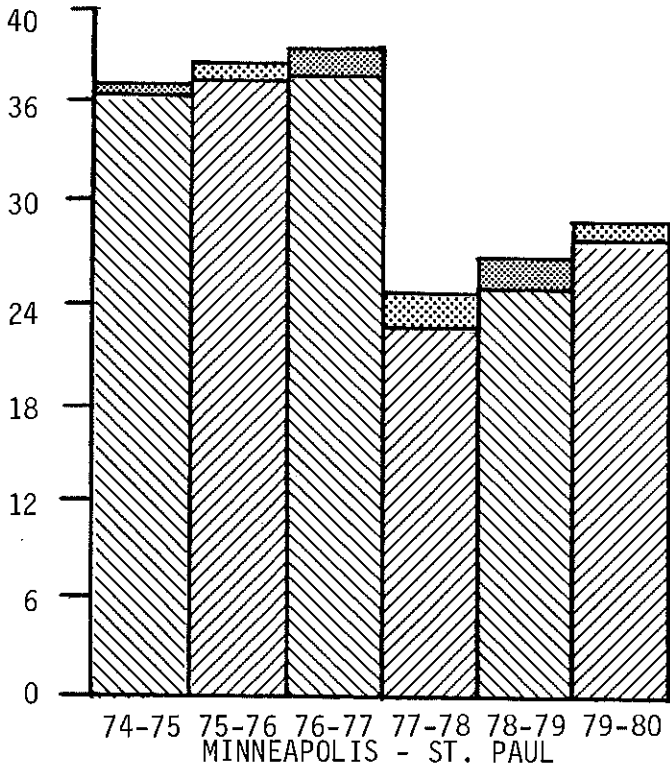
NORTH DAKOTA BARLEY SHIPMENTS  
BY DESTINATION  
(million bu.)





NORTH DAKOTA BARLEY SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	27,963 (96%)	1,206 (4%)
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%)	15,697 (69%)	6,945 (31%)
WEST	646 (39%)	1,006 (61%)	128 (14%)	765 (86%)	74 (58%)	52 (42%)	323 (41%)	469 (59%)	677 (56%)	527 (44%)	301 (40%)	452 (60%)
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%)	17,728 (68%)	8,328 (32%)
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%)	61,689 (79%)	16,931 (21%)

NORTH DAKOTA BARLEY SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION  
(million bu.)



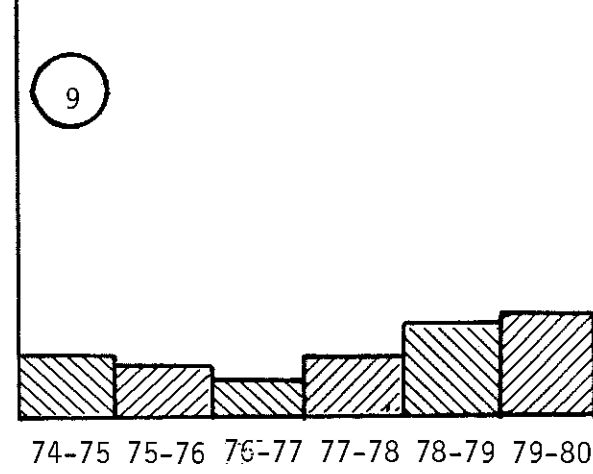
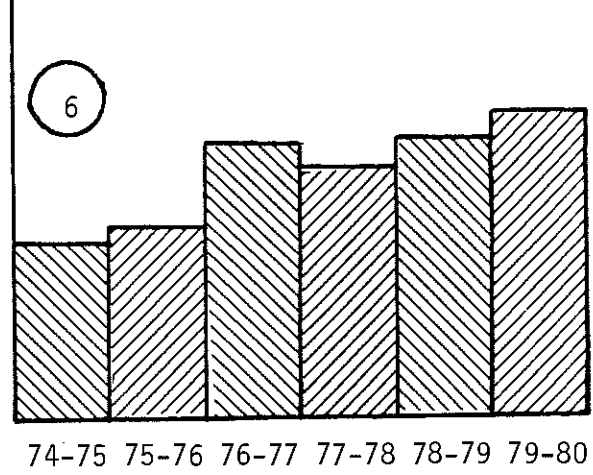
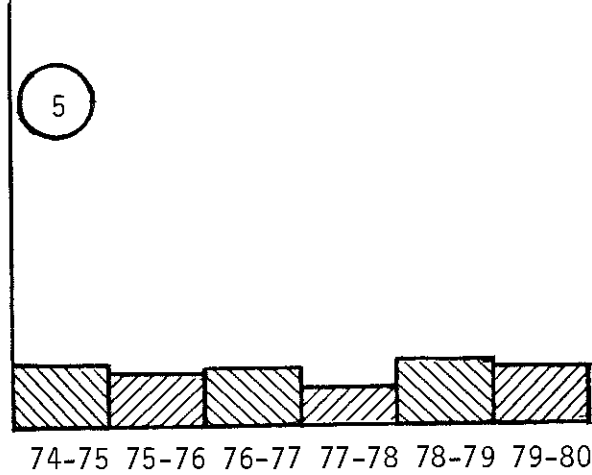
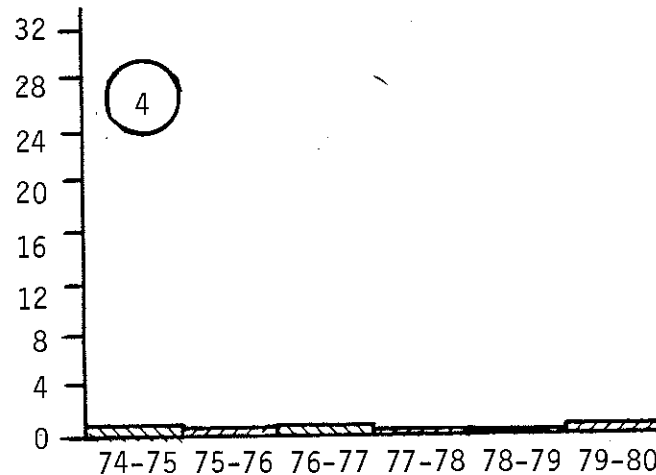
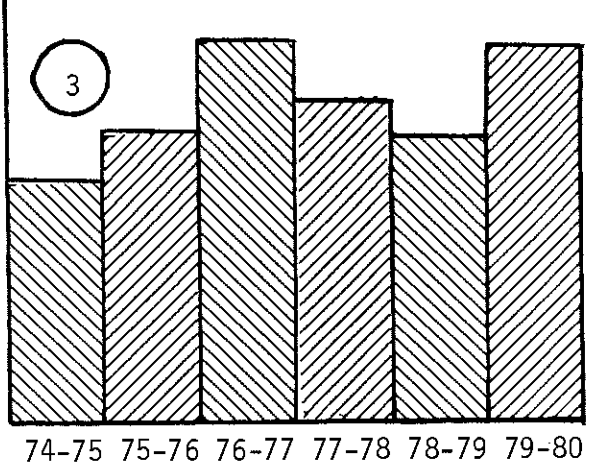
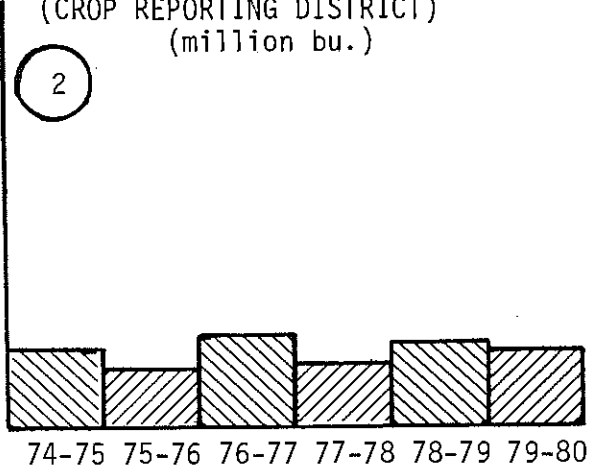
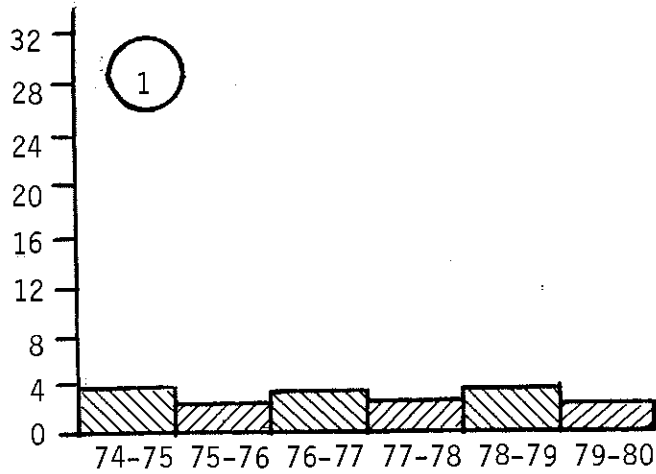
TRUCK   
RAIL 



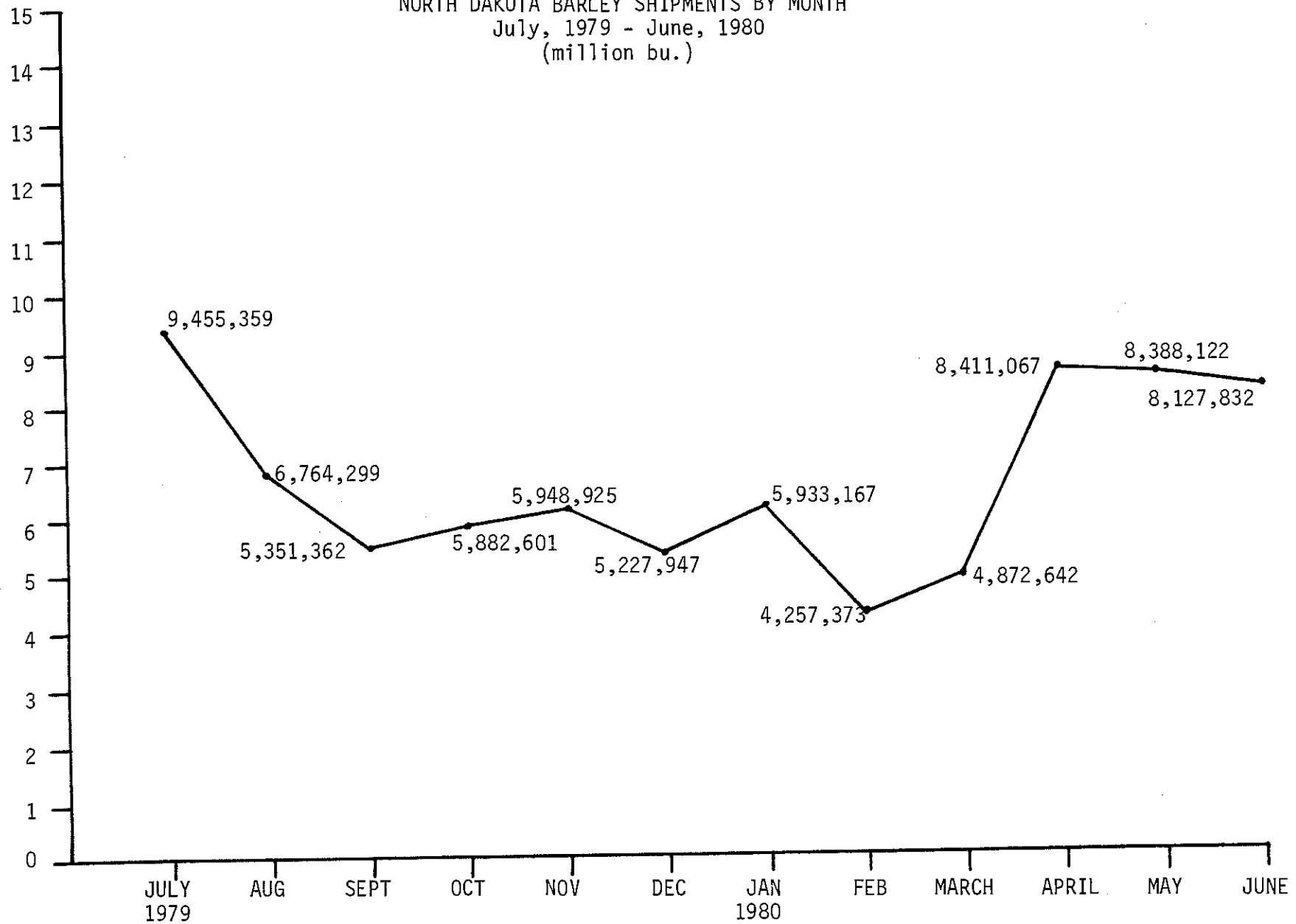
NORTH DAKOTA BARLEY SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	3,813	2,183	3,229	2,502	3,515	2,355
2	6,023	4,621	7,761	5,220	6,930	6,267
3	19,947	23,698	30,727	25,417	23,449	30,625
4	462	339	345	175	164	214
5	5,321	4,439	4,773	3,682	5,423	4,697
6	14,602	15,619	22,440	20,258	22,739	25,247
7	1,075	386	300	94	120	130
8	136	342	237	20	122	106
9	5,294	4,728	3,501	5,747	7,185	8,980
TOTAL	56,673	56,355	73,313	63,115	69,647	78,621

NORTH DAKOTA BARLEY SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)  
(million bu.)



NORTH DAKOTA BARLEY SHIPMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

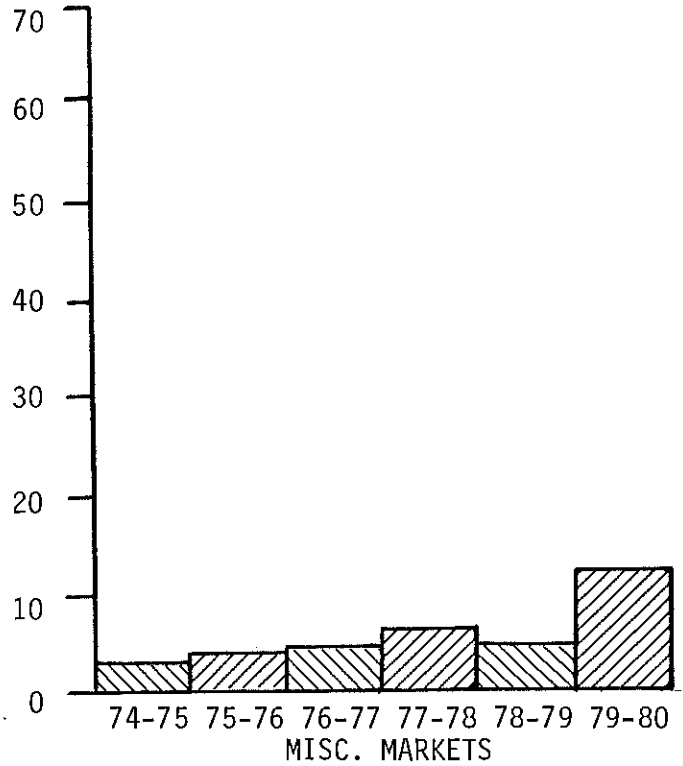
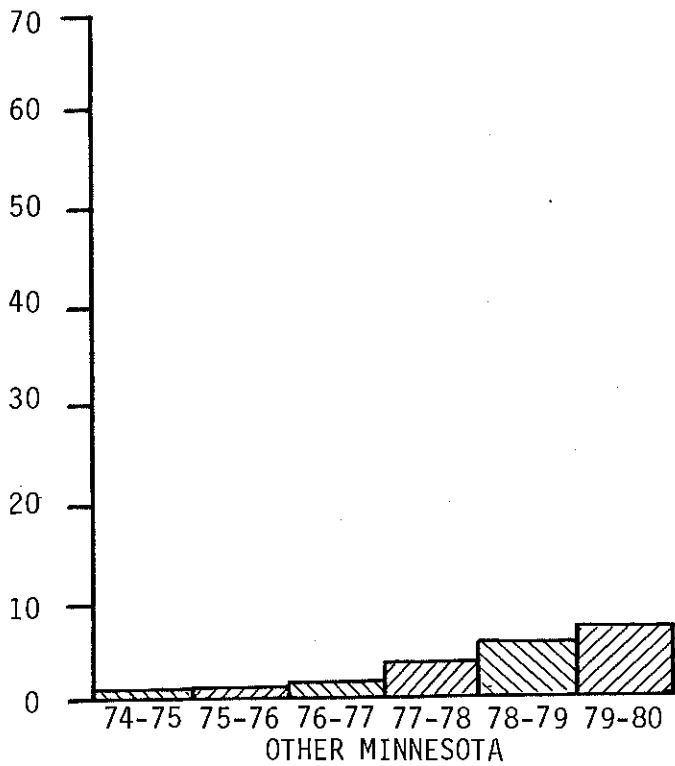
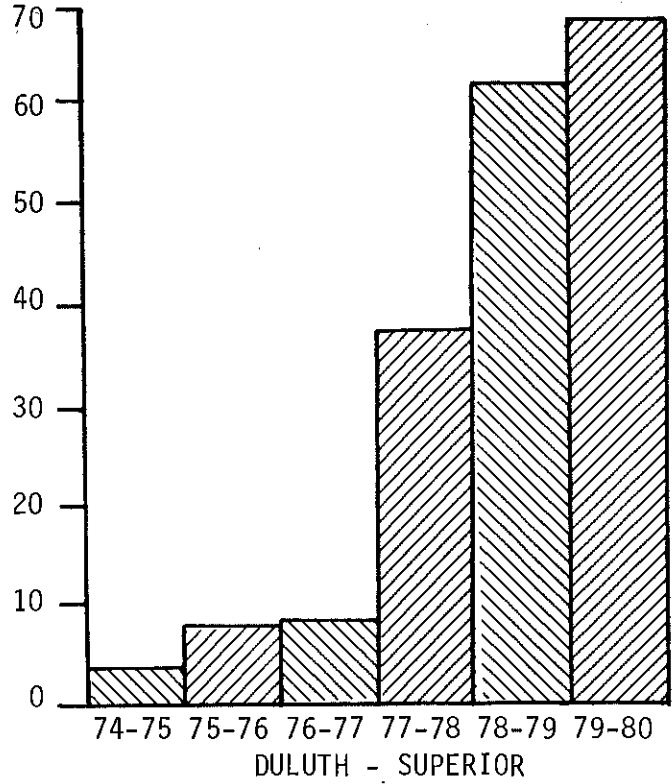
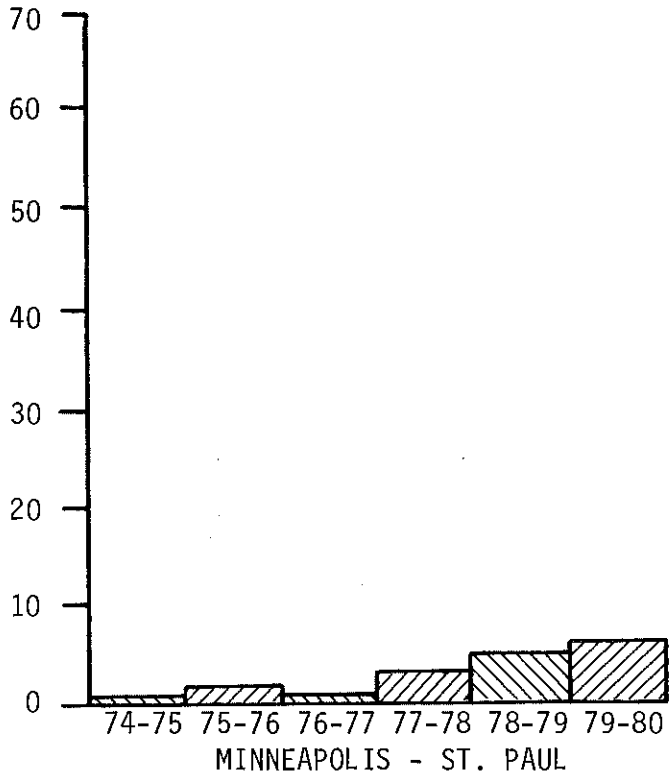


**SUNFLOWER SEED  
MOVEMENTS**

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS - ST. PAUL	401 (4%)	1,158 (8%)	863 (6%)	2,992 (6%)	4,790 (6%)	6,154 (6%)
DULUTH - SUPERIOR	3,932 (44%)	8,083 (56%)	8,693 (56%)	38,019 (74%)	63,178 (80%)	69,422 (72%)
OTHER MINNESOTA	1,075 (12%)	1,147 (8%)	1,369 (9%)	3,220 (6%)	5,608 (7%)	8,215 (9%)
MISC. MARKETS	3,605 (40%)	4,166 (27%)	4,697 (30%)	7,047 (14%)	5,677 (7%)	12,149 (13%)
TOTAL	9,013 (100%)	14,554 (100%)	15,622 (100%)	51,278 (100%)	79,253 (100%)	95,940 (100%)

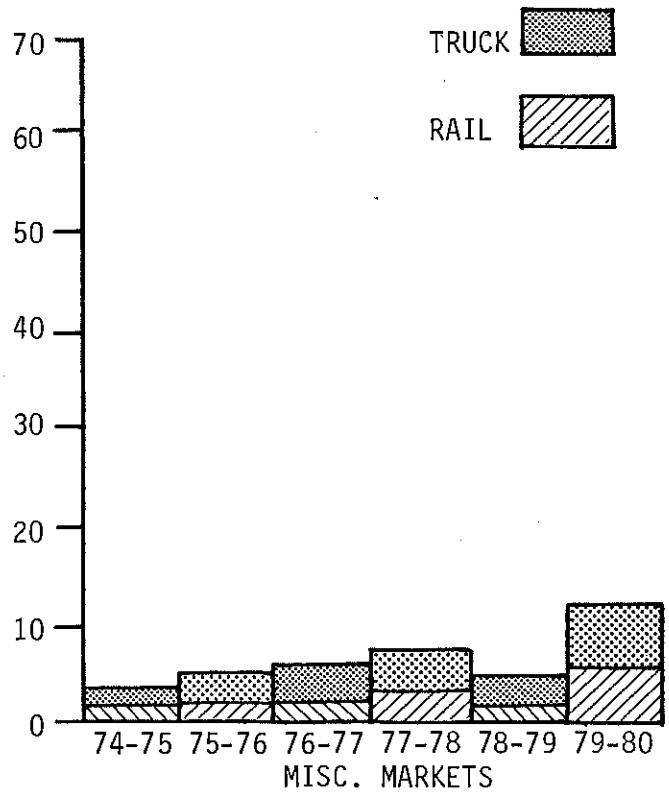
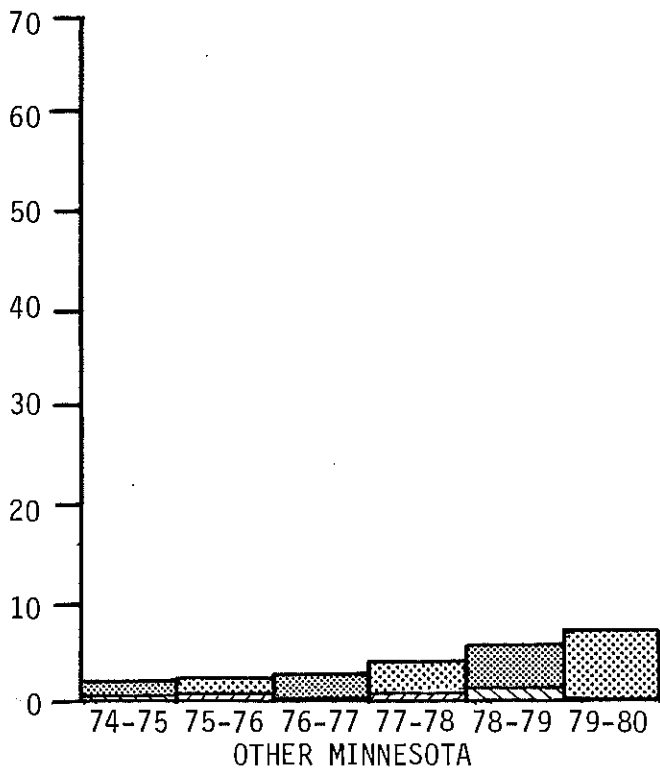
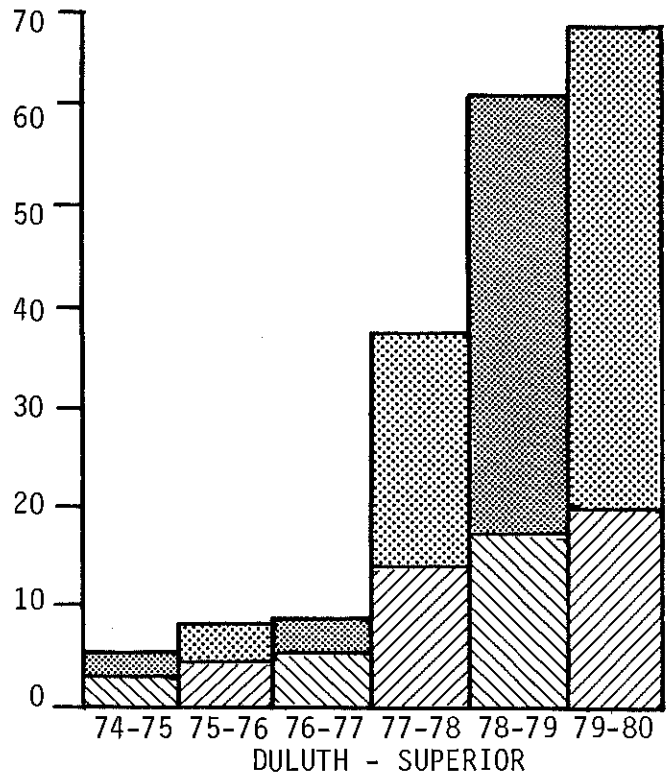
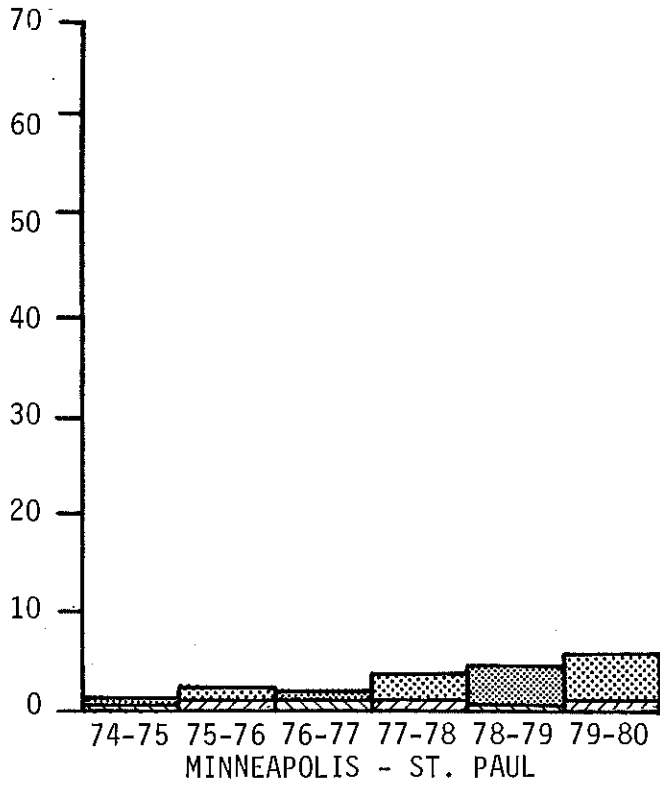
NORTH DAKOTA SUNFLOWER SEED SHIPMENTS  
 BY DESTINATION  
 (million bu.)





NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	1,395 (23%)	4,759 (77%)
DULUTH - SUPERIOR	2,271 (58%)	1,611 (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%)	20,419 (29%)	49,003 (71%)
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%)	144 (2%)	8,070 (98%)
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%)	5,329 (44%)	6,822 (56%)
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%)	27,287 (28%)	68,654 (72%)

NORTH DAKOTA SUNFLOWER SEED SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION  
(million bu.)



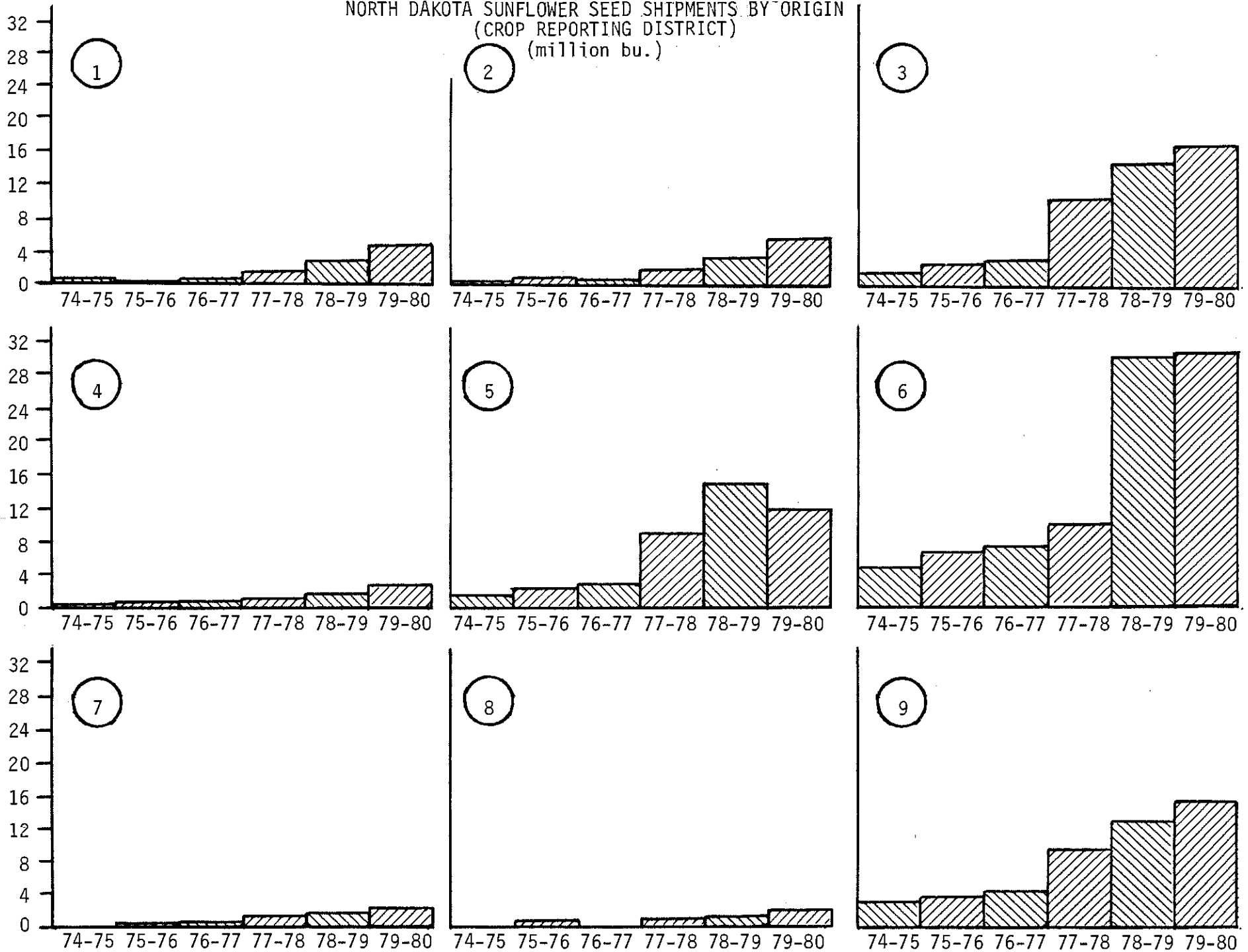
TRUCK   
RAIL 



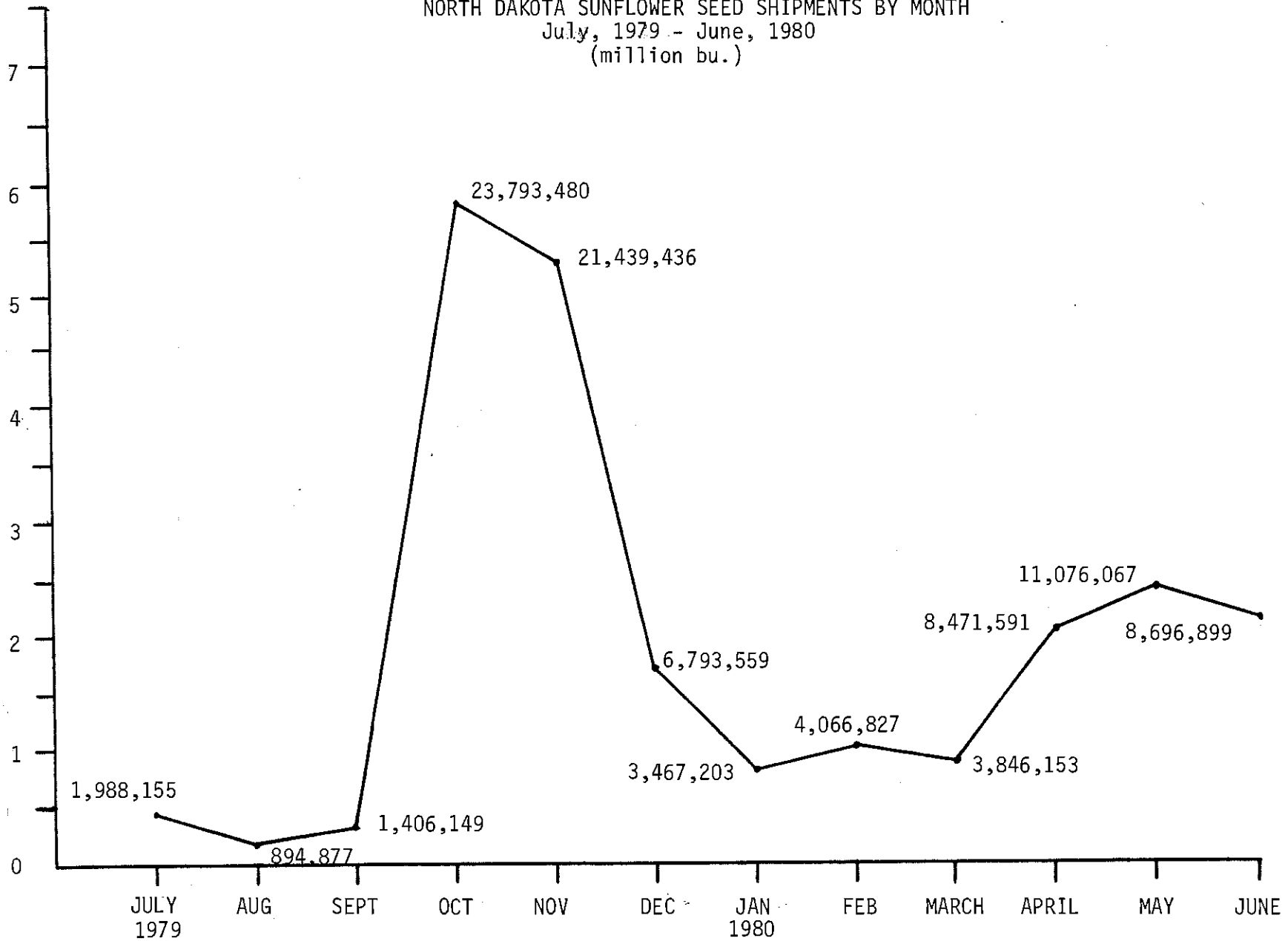
NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	15	0	7	771	2,233	4,317
2	2	71	26	1,267	2,839	6,101
3	791	1,853	2,184	10,469	14,803	21,814
4	4	9	20	179	336	819
5	470	1,772	1,788	9,087	15,560	12,706
6	5,464	7,441	7,861	10,710	30,050	30,333
7	0	2	25	225	485	1,550
8	0	7	0	129	225	1,045
9	2,267	3,399	3,711	8,442	12,722	17,254
TOTAL	9,013	14,554	15,622	41,279	79,253	95,939

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



NORTH DAKOTA SUNFLOWER SEED SHIPMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

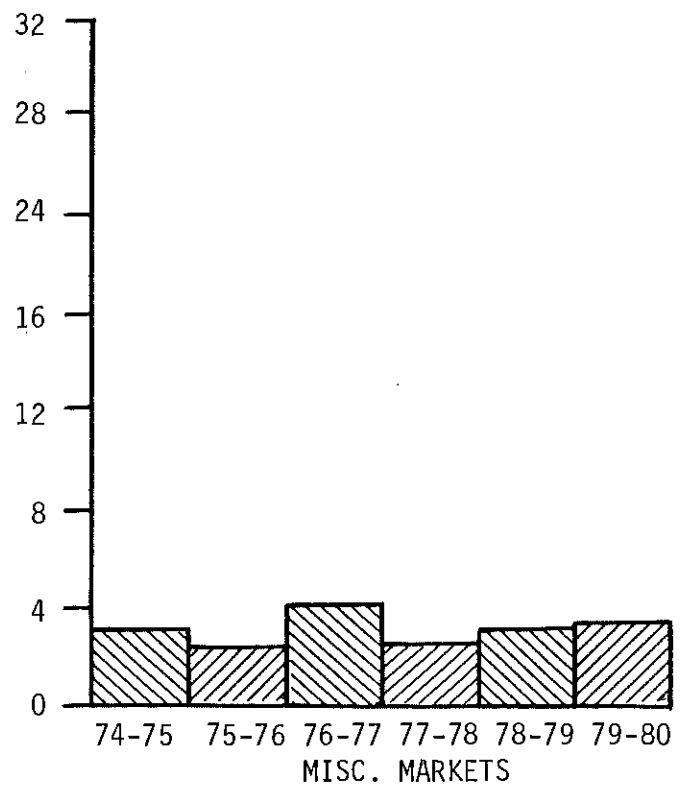
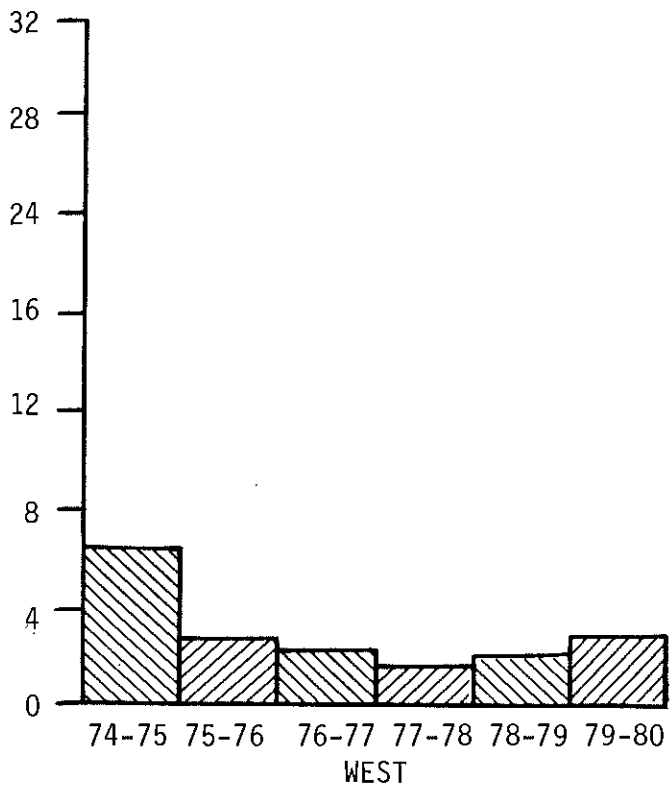
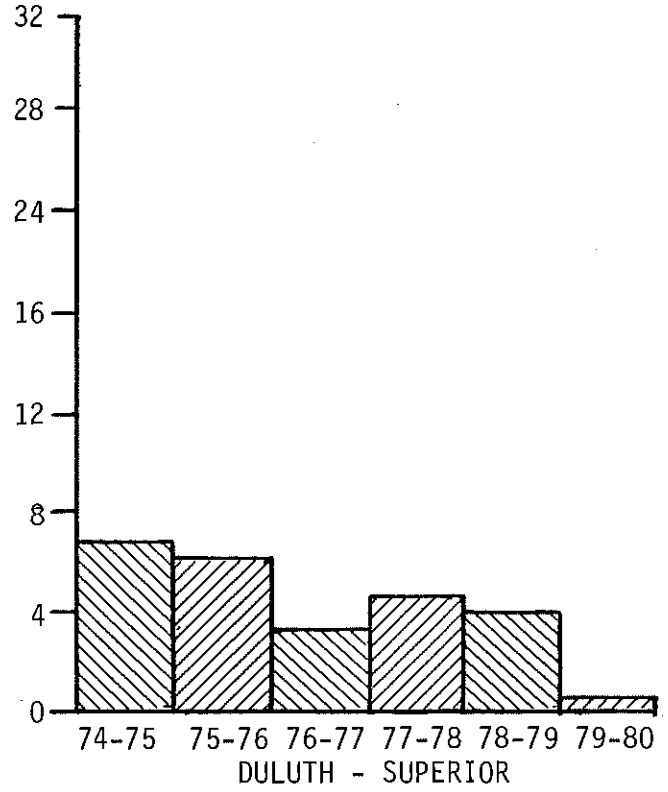
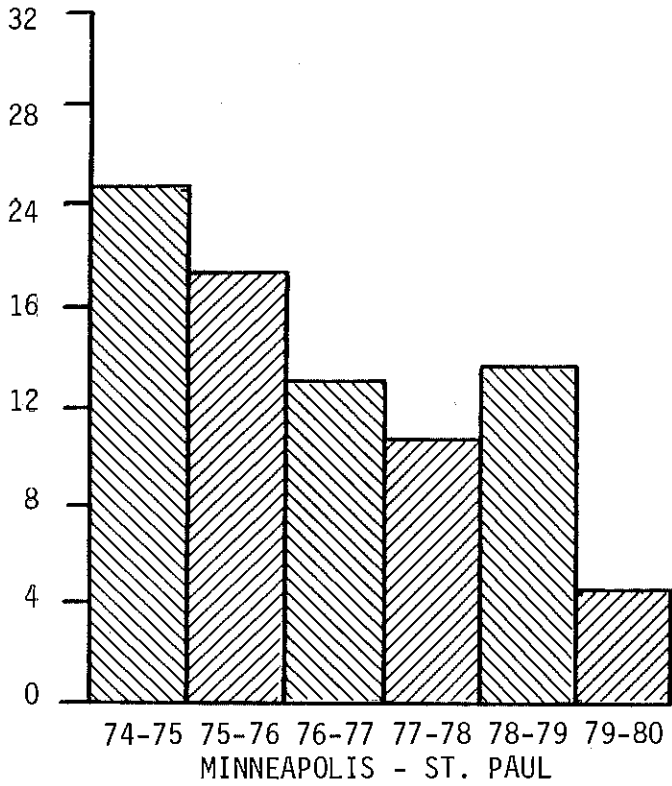


**OATS  
MOVEMENTS**

NORTH DAKOTA OATS SHIPMENTS  
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS - ST. PAUL	10,439 (54%)	8,779 (58%)	6,769 (56%)	5,860 (56%)	6,969 (58%)	4,298 (54%)
DULUTH - SUPERIOR	3,752 (19%)	3,531 (23%)	1,932 (16%)	2,385 (23%)	2,078 (17%)	346 (4%)
WEST	3,446 (18%)	1,458 (10%)	1,427 (12%)	851 (8%)	1,200 (10%)	1,580 (20%)
MISCELLANEOUS MARKETS	1,825 (9%)	1,334 (9%)	2,031 (17%)	1,396 (13%)	1,839 (15%)	1,735 (22%)
TOTAL	19,462 (100%)	15,102 (100%)	12,159 (100%)	10,492 (100%)	12,086 (100%)	7,959 (100%)

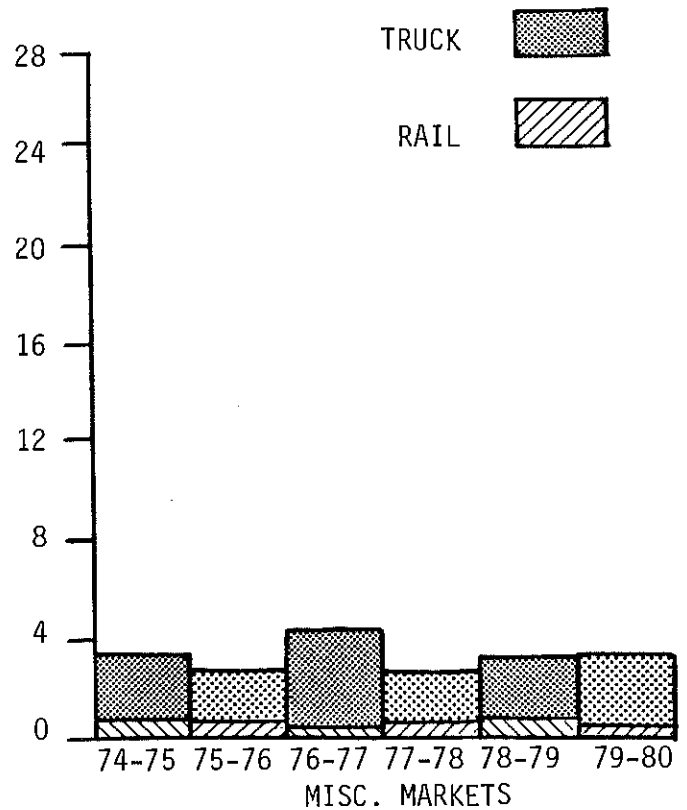
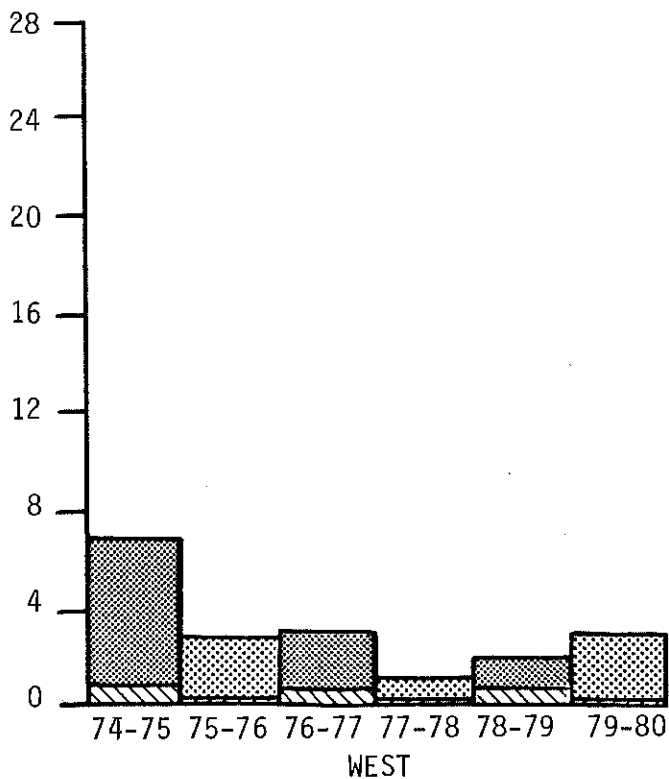
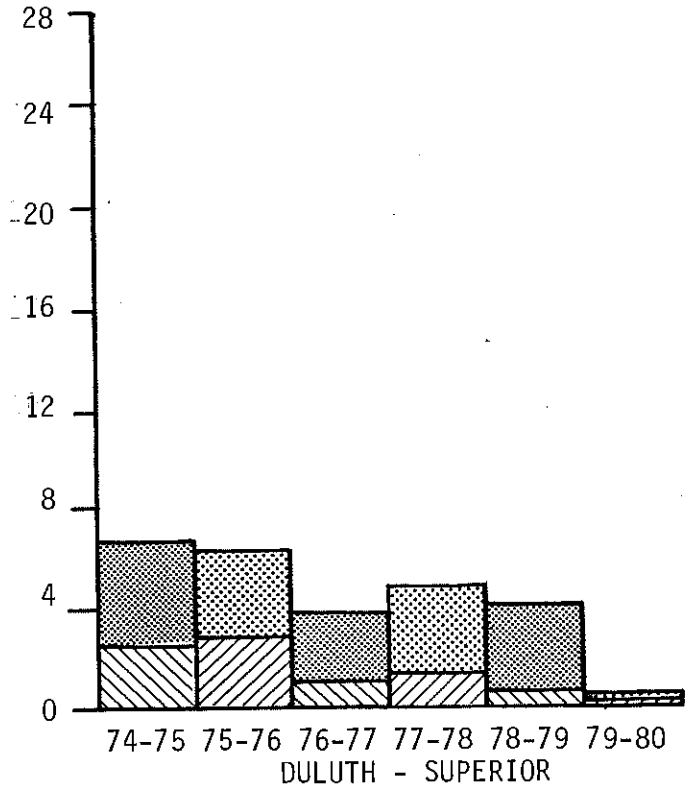
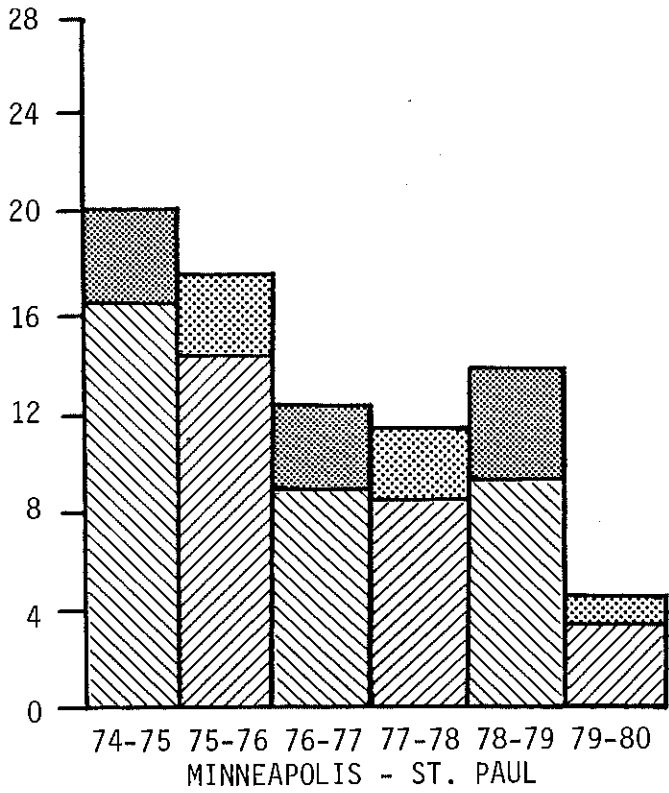
NORTH DAKOTA OATS SHIPMENTS  
BY DESTINATION  
(million bu.)





NORTH DAKOTA OATS SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	3,077 (72%)	1,220 (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%)	623 (30%)	1,455 (70%)	184 (53%)	162 (47%)
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%)	91 (5%)	1,489 (95%)
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%)	338 (19%)	1,397 (81%)
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%)	3,690 (46%)	4,268 (54%)

NORTH DAKOTA OATS SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATION  
(million bu.)



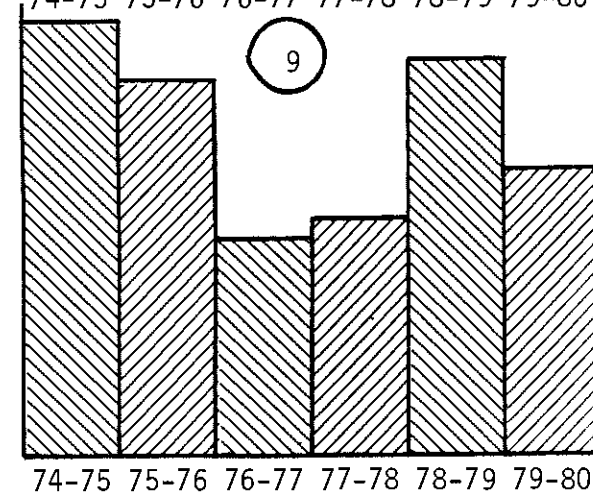
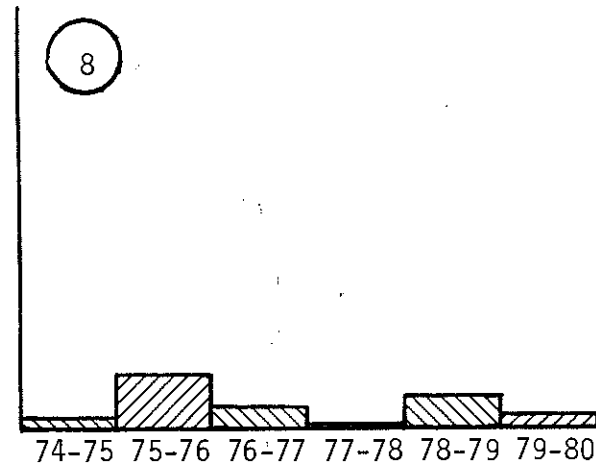
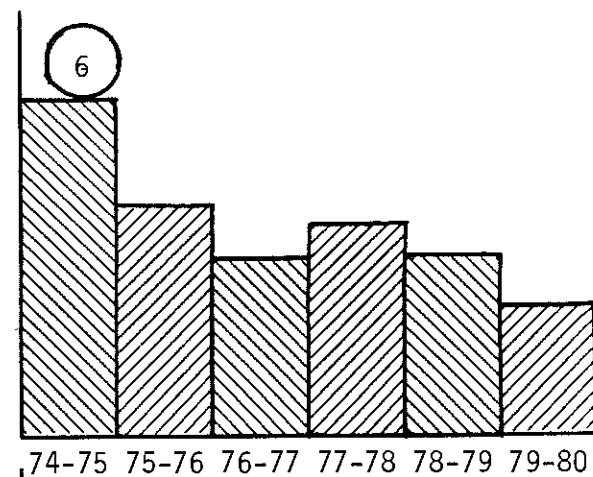
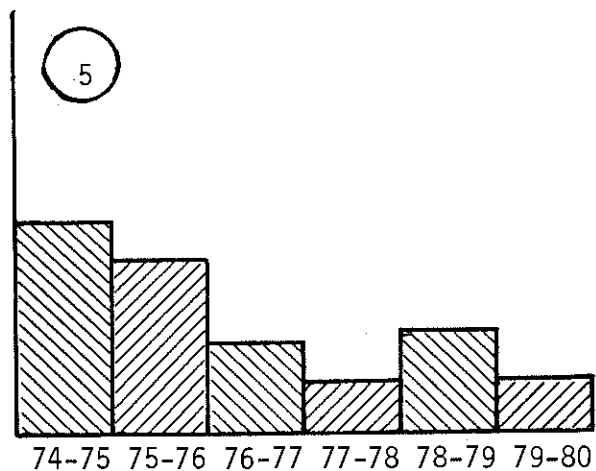
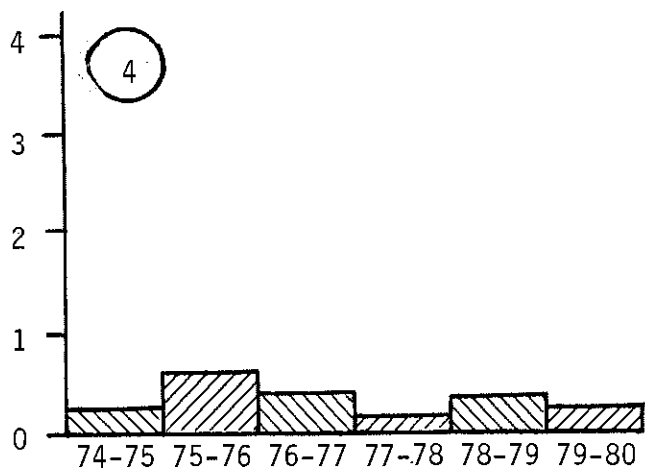
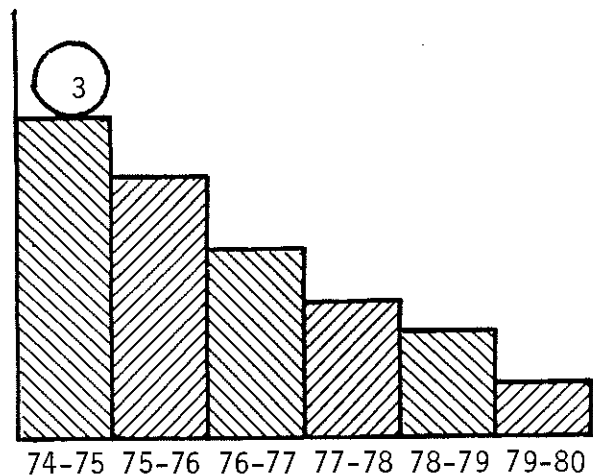
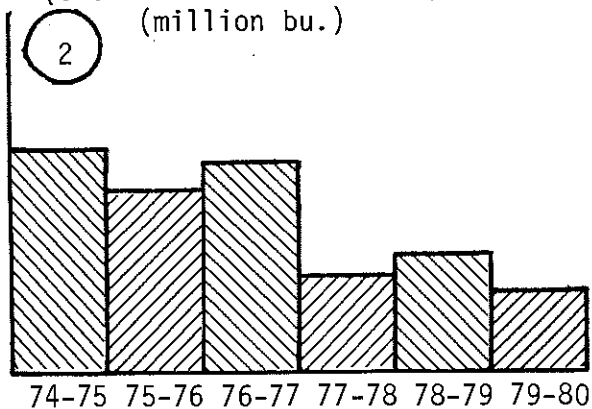
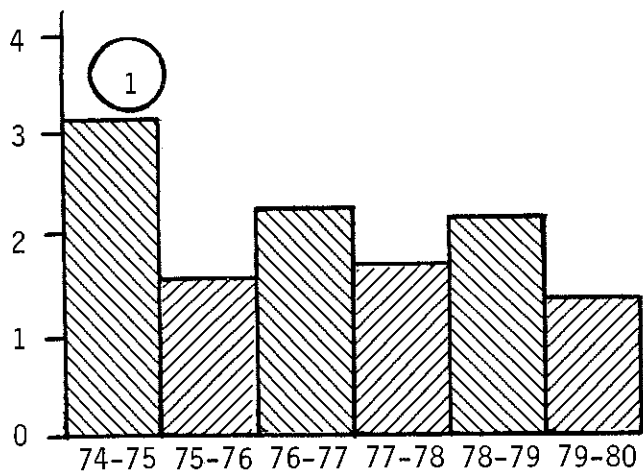
TRUCK   
RAIL 



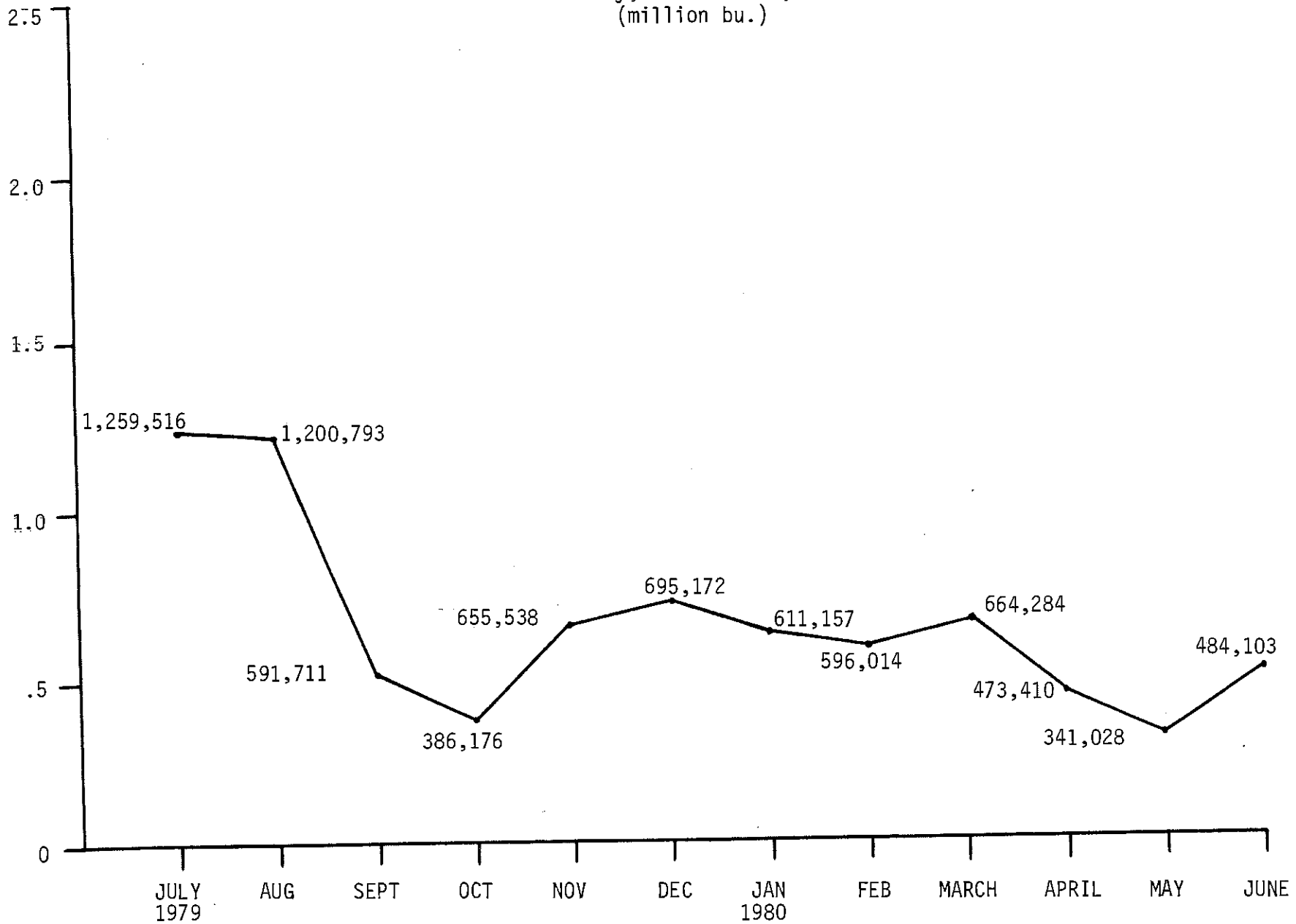
NORTH DAKOTA OATS SHIPMENTS  
BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
1	3,103	1,613	2,309	1,769	2,200	1,305
2	2,221	1,806	2,081	974	1,184	875
3	3,153	2,590	1,904	1,485	1,132	544
4	283	596	436	137	425	282
5	2,095	1,757	976	507	1,016	619
6	3,426	2,297	1,733	2,077	1,760	1,057
7	266	163	225	47	68	38
8	65	573	226	7	301	159
9	4,668	3,709	2,269	3,490	4,002	3,079
TOTAL	19,280	15,104	12,159	10,493	12,088	7,958

NORTH DAKOTA OATS SHIPMENTS  
(CROP REPORTING DISTRICT)  
(million bu.)



NORTH DAKOTA OATS SHIPMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

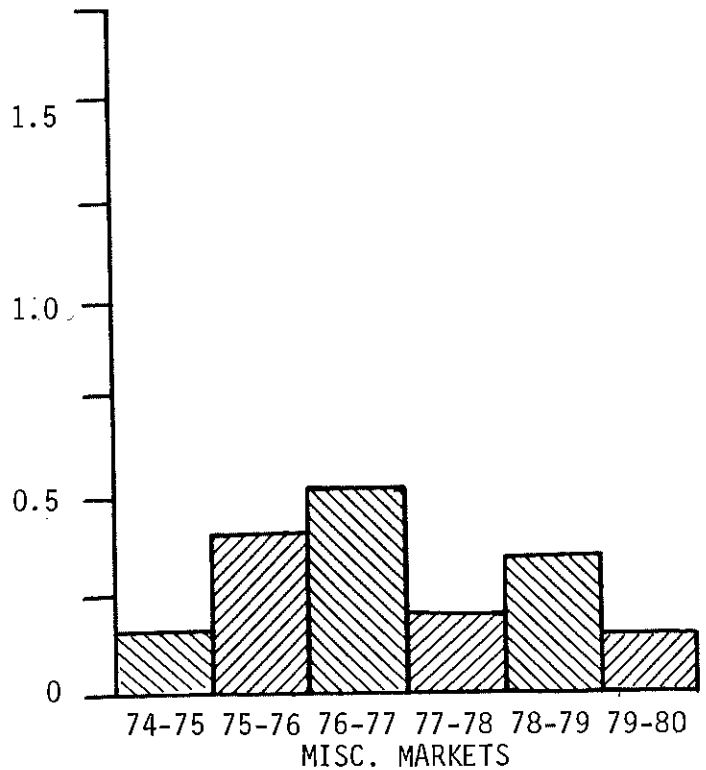
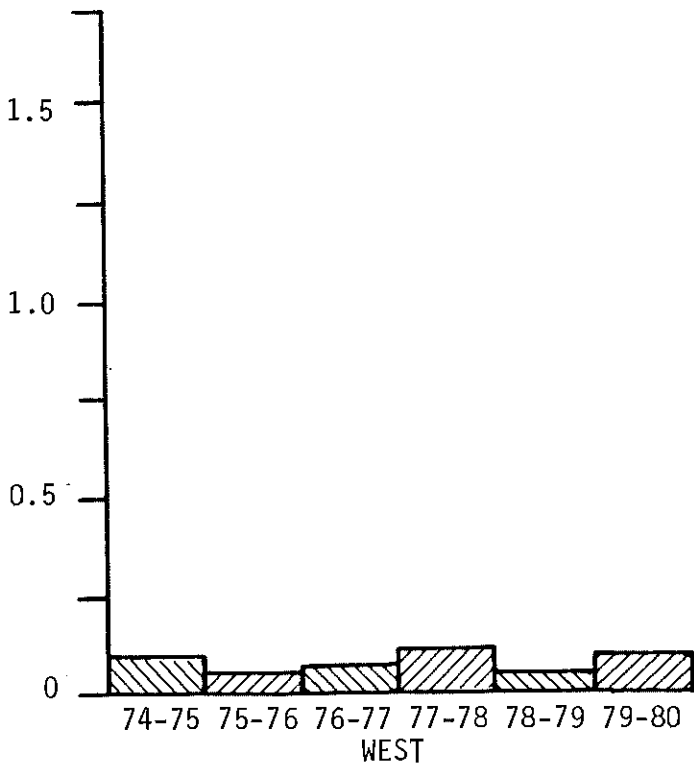
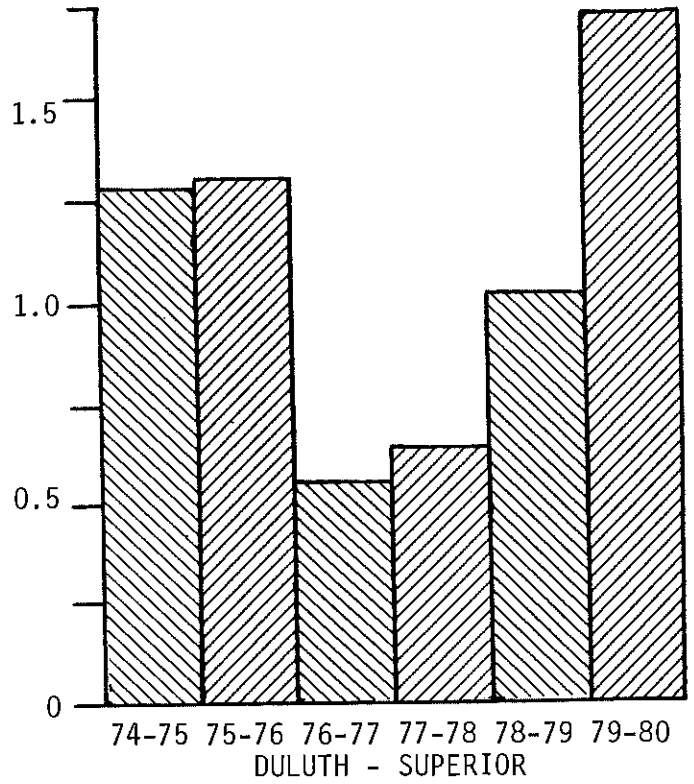
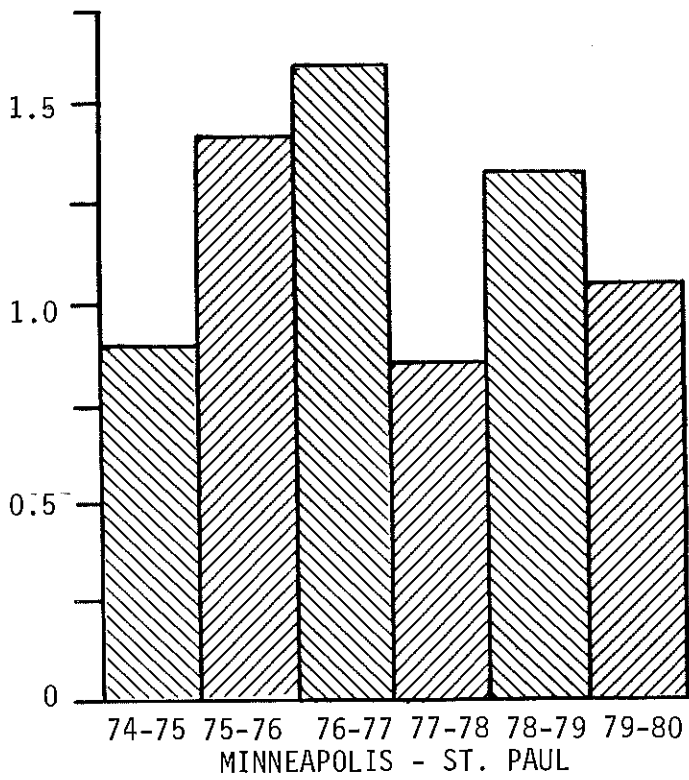


**RYE  
MOVEMENTS**

NORTH DAKOTA RYE SHIPMENTS  
BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS - ST. PAUL	899 (36%)	1,438 (44%)	1,612 (58%)	769 (43%)	1,357 (48%)	1,195 (33%)
DULUTH - SUPERIOR	1,316 (52%)	1,331 (40%)	557 (20%)	671 (38%)	1,017 (36%)	2,002 (56%)
WEST	100 (4%)	71 (2%)	86 (3%)	104 (6%)	74 (3%)	112 (3%)
MISCELLANEOUS MARKETS	198 (8%)	455 (14%)	514 (19%)	228 (13%)	363 (13%)	290 (8%)
TOTAL	2,513 (100%)	3,295 (100%)	2,769 (100%)	1,772 (100%)	2,811 (100%)	3,599 (100%)

NORTH DAKOTA RYE SHIPMENTS  
BY DESTINATION  
(million bu.)

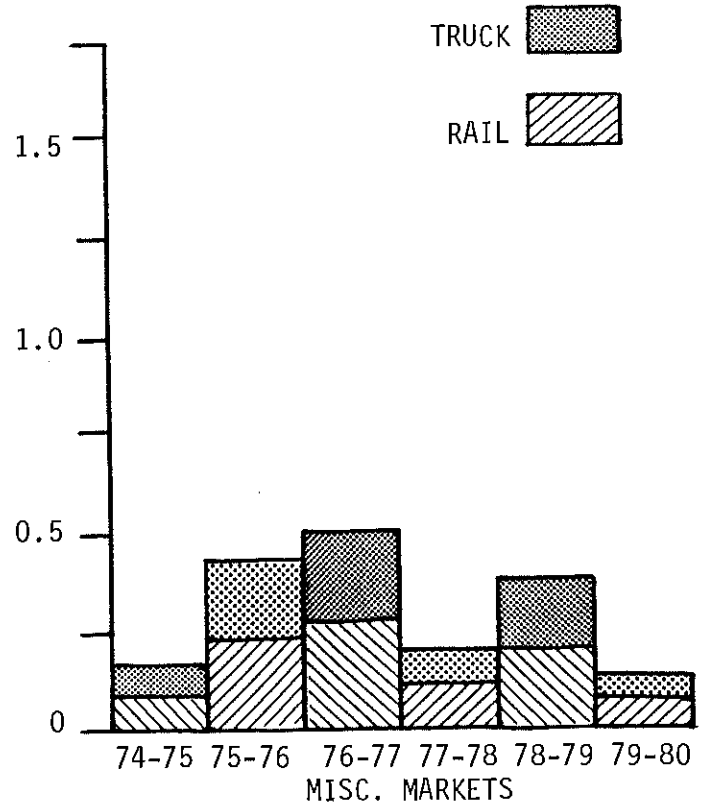
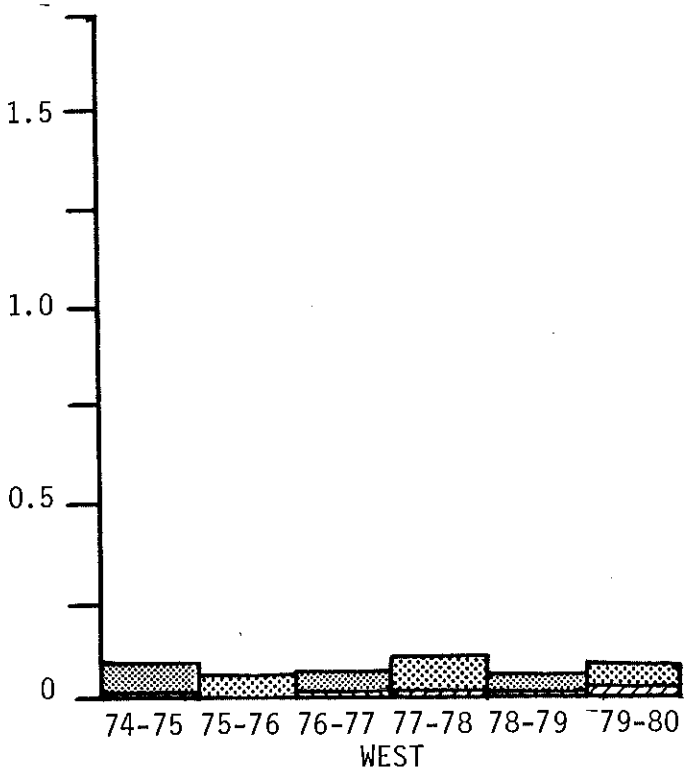
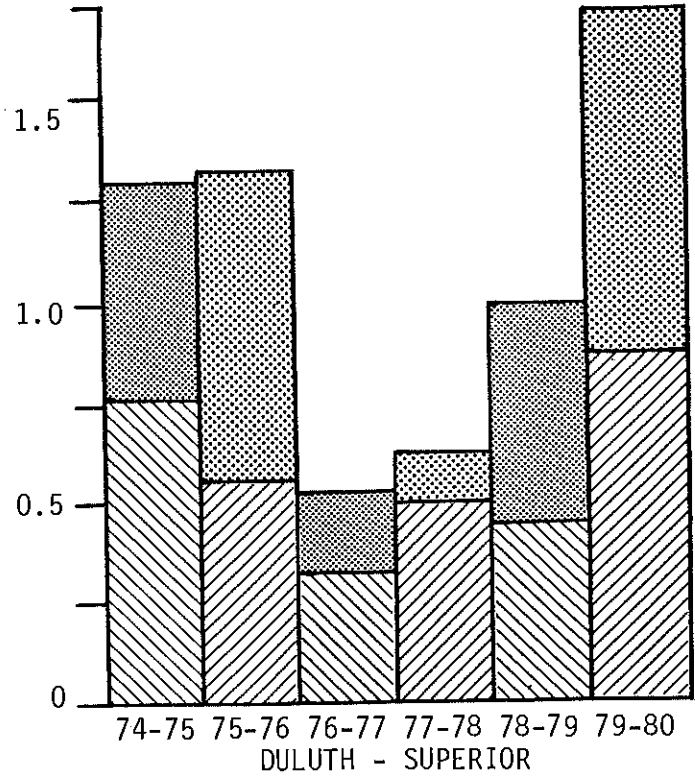
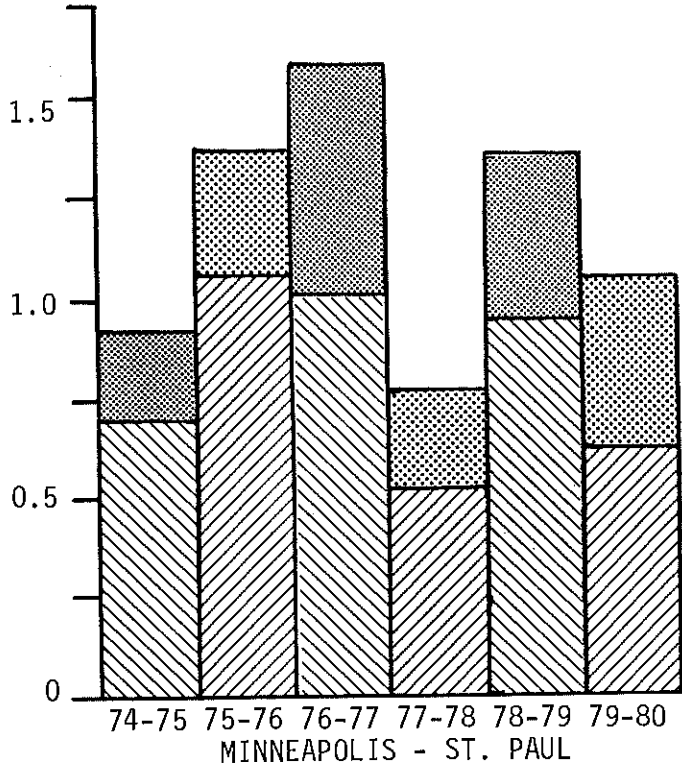




NORTH DAKOTA RYE SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	727 (61%)	468 (39%)
DULUTH - SUPERIOR	779 (59%)	538 (41%)	588 (44%)	743 (56%)	311 (56%)	246 (44%)	525 (78%)	146 (22%)	476 (47%)	541 (53%)	1,005 (50%)	997 (50%)
WEST	9 (9%)	91 (91%)	0 (0%)	71 (100%)	6 (7%)	80 (93%)	22 (21%)	82 (79%)	6 (8%)	68 (92%)	41 (37%)	70 (63%)
MISC. MARKETS	100 (50%)	98 (50%)	245 (54%)	210 (46%)	267 (52%)	247 (48%)	142 (62%)	86 (38%)	121 (33%)	242 (67%)	122 (42%)	169 (58%)
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%)	1,895 (53%)	1,704 (47%)

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NORTH DAKOTA RYE SHIPMENTS  
 BY RAIL AND TRUCK AND DESTINATION  
 (million bu.)



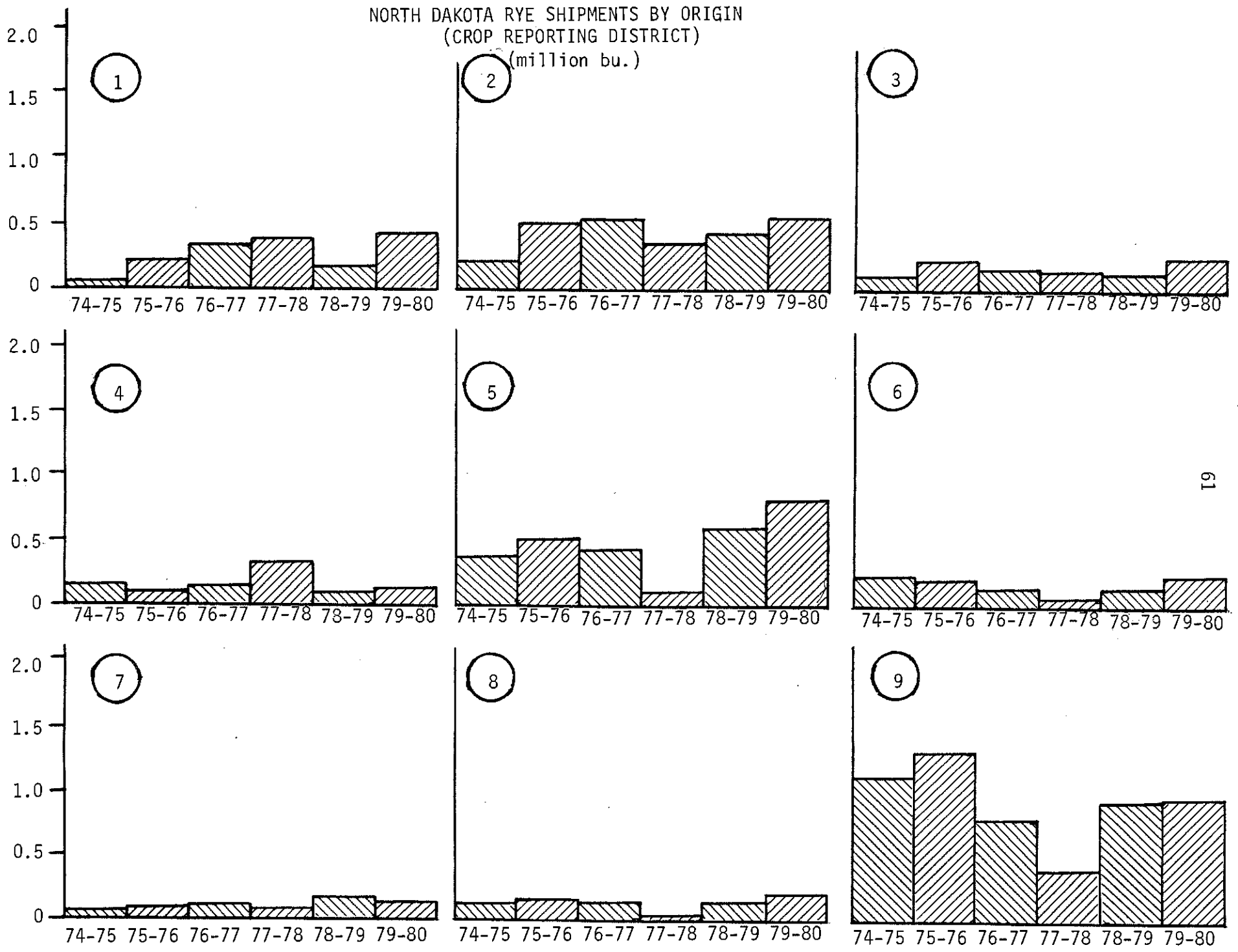
TRUCK   
 RAIL 



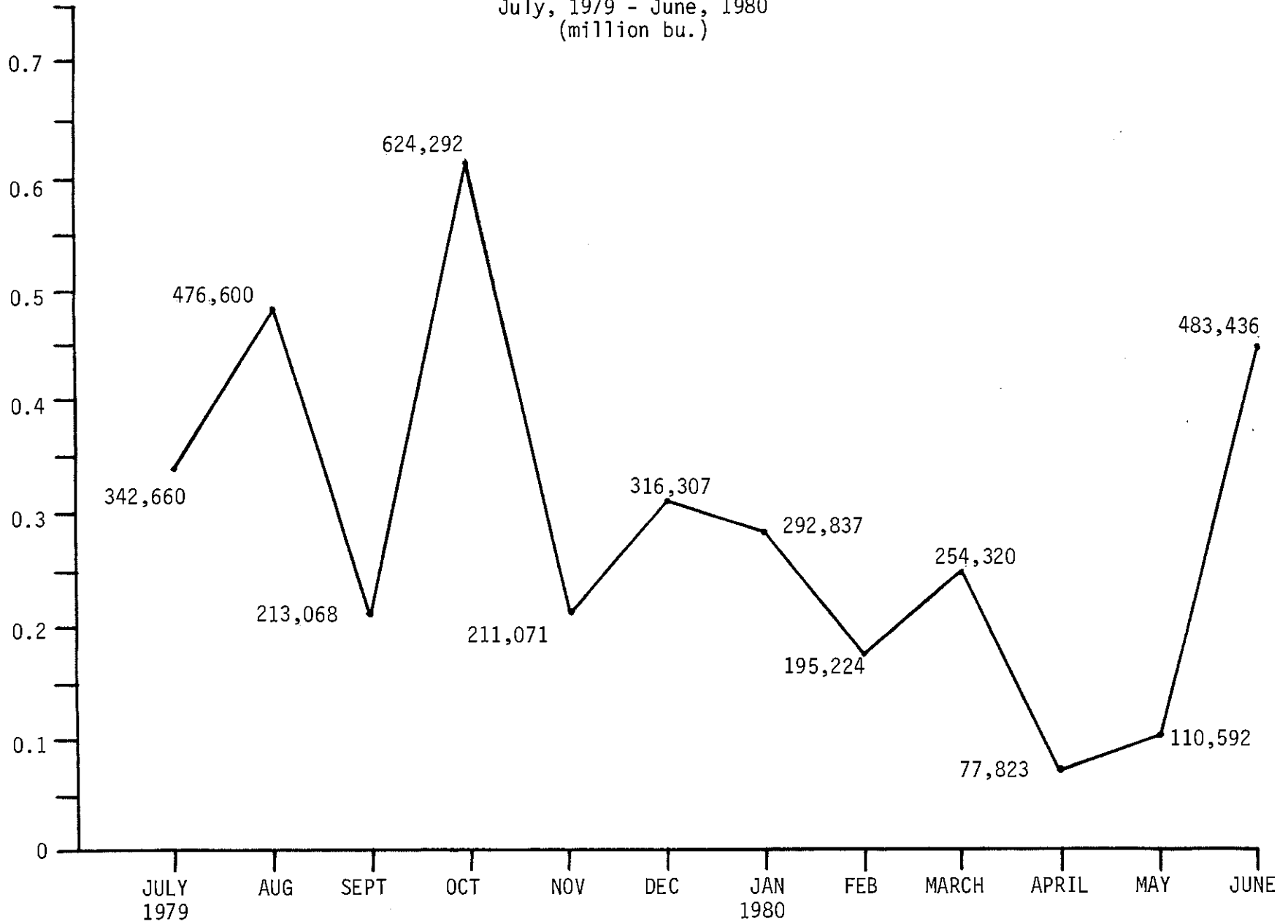
NORTH DAKOTA RYE SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	59	218	285	334	177	388
2	221	541	557	315	442	587
3	87	222	189	181	160	230
4	147	71	124	304	75	86
5	347	518	444	122	570	760
6	209	206	161	59	136	229
7	71	77	93	75	165	135
8	103	134	118	27	104	164
9	1,170	1,305	799	355	982	1,020
TOTAL	2,414	3,292	2,770	1,772	2,811	3,599

NORTH DAKOTA RYE SHIPMENTS BY ORIGIN  
 (CROP REPORTING DISTRICT)  
 (million bu.)



NORTH DAKOTA RYE SHIPMENTS BY MONTH  
July, 1979 - June, 1980  
(million bu.)

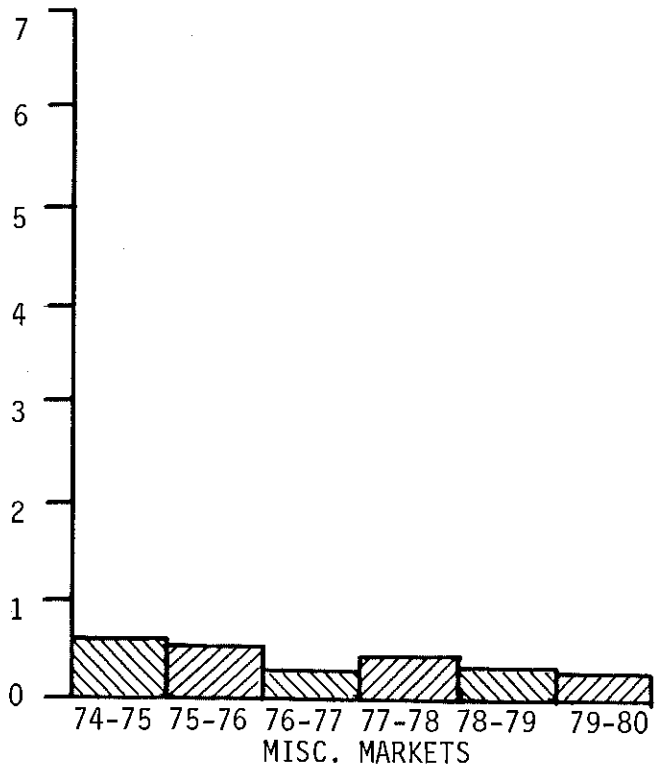
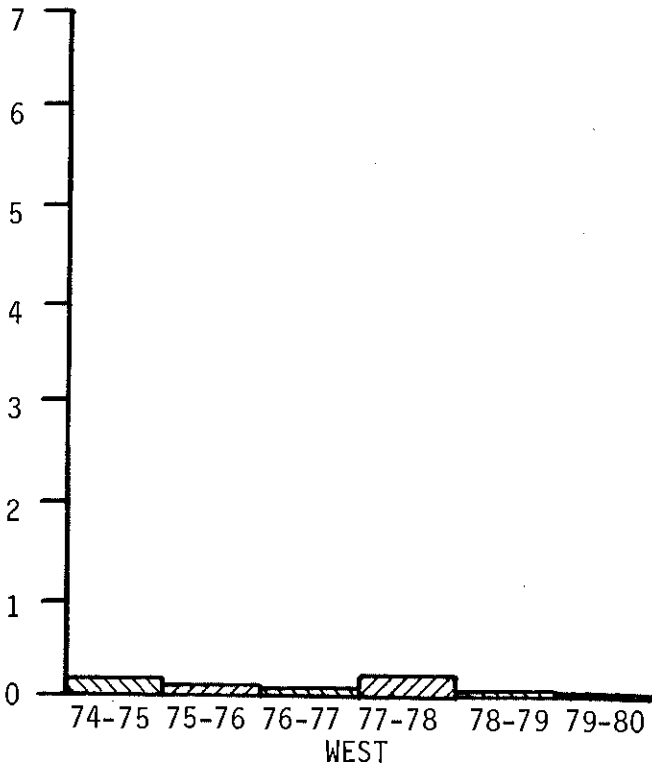
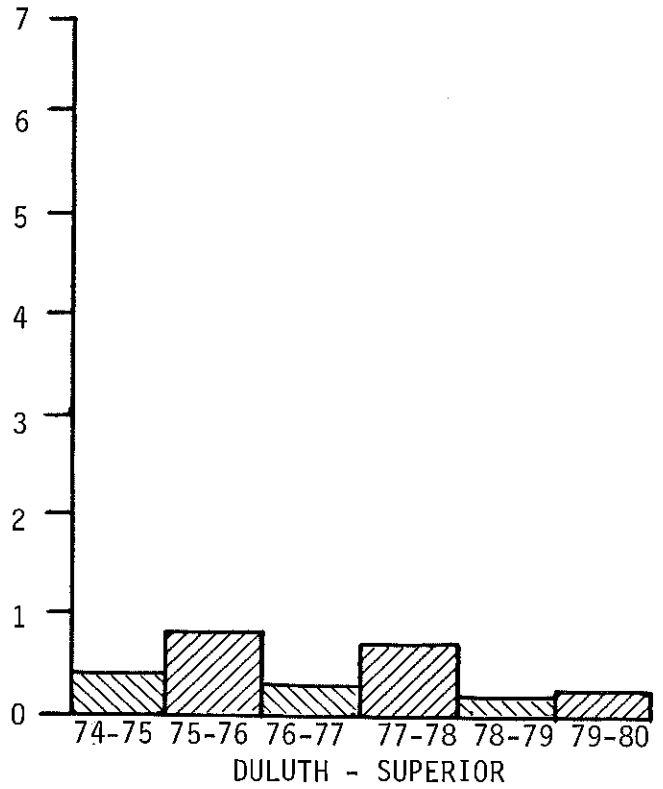
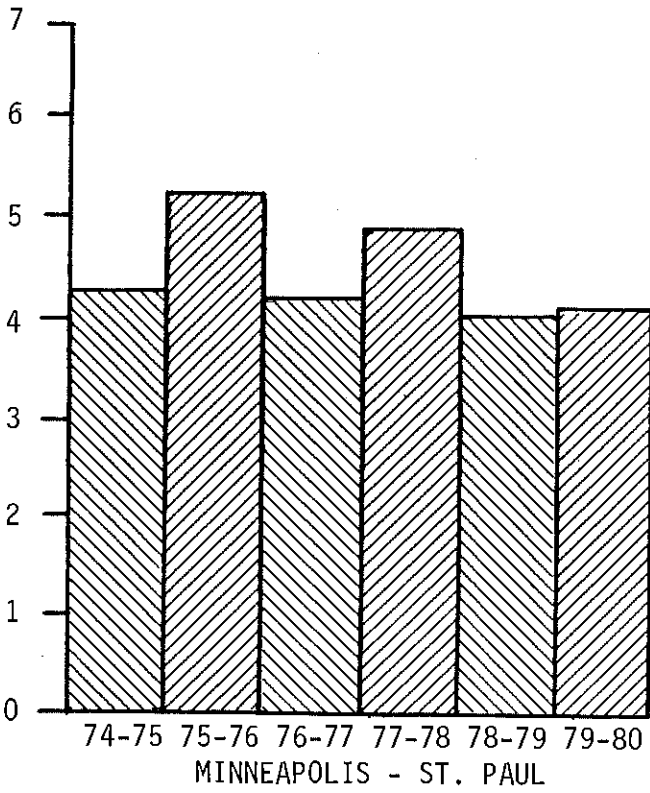


**FLAXSEED  
MOVEMENTS**

NORTH DAKOTA FLAXSEED SHIPMENTS BY DESTINATION

DESTINATION	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
MINNEAPOLIS - ST. PAUL	4,354 (82%)	5,170 (78%)	4,260 (87%)	4,941 (80%)	4,054 (89%)	4,114 (90%)
DULUTH - SUPERIOR	346 (7%)	855 (13%)	284 (6%)	748 (12%)	153 (3%)	195 (4%)
WEST	69 (1%)	60 (1%)	59 (1%)	72 (1%)	21 ( $\leq$ 1%)	10 ( $\leq$ 1%)
MISCELLANEOUS MARKETS	531 (10%)	505 (8%)	279 (6%)	413 (7%)	313 (7%)	263 (6%)
TOTAL	5,300 (100%)	6,590 (100%)	4,882 (100%)	6,174 (100%)	4,541 (100%)	4,582 (100%)

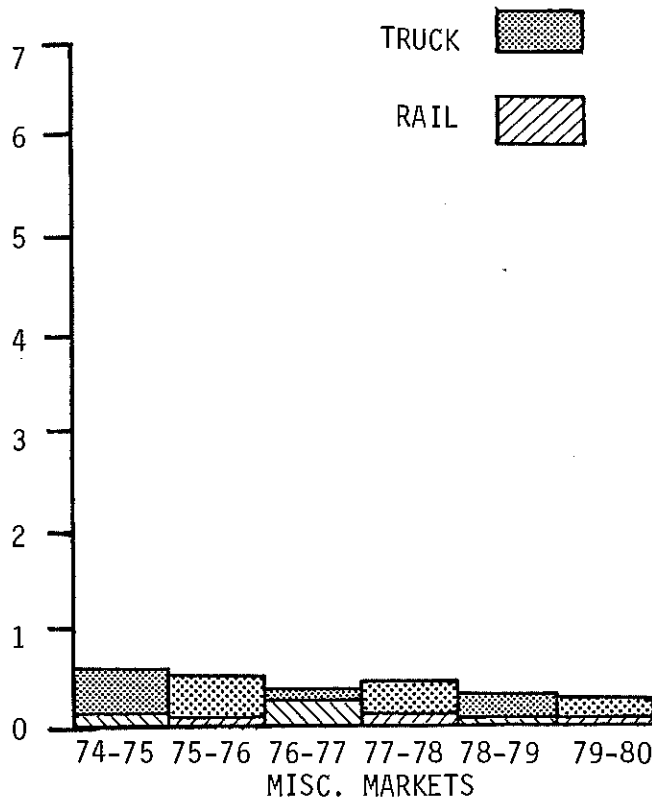
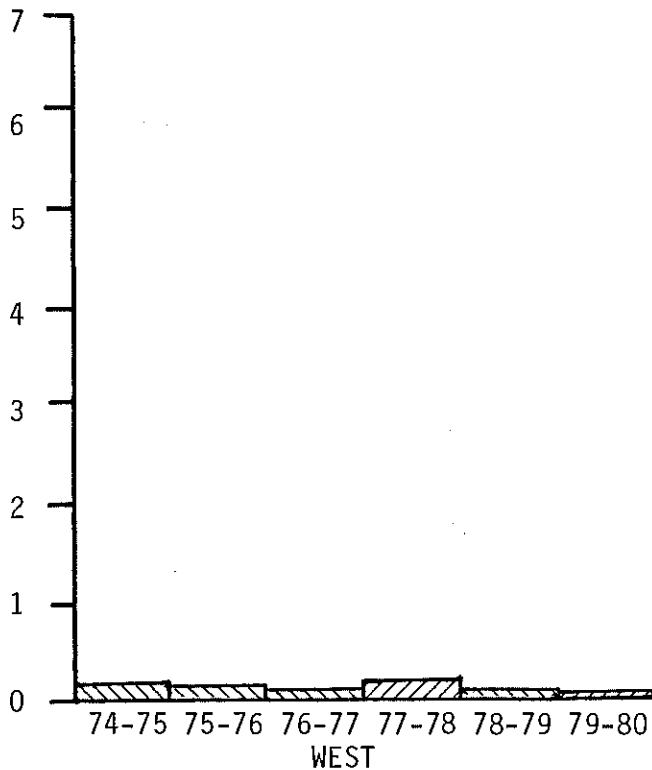
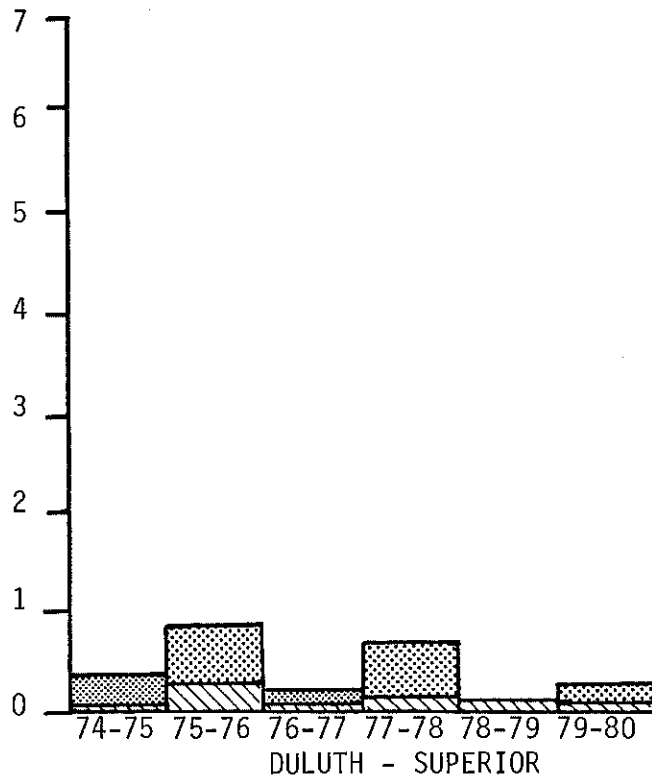
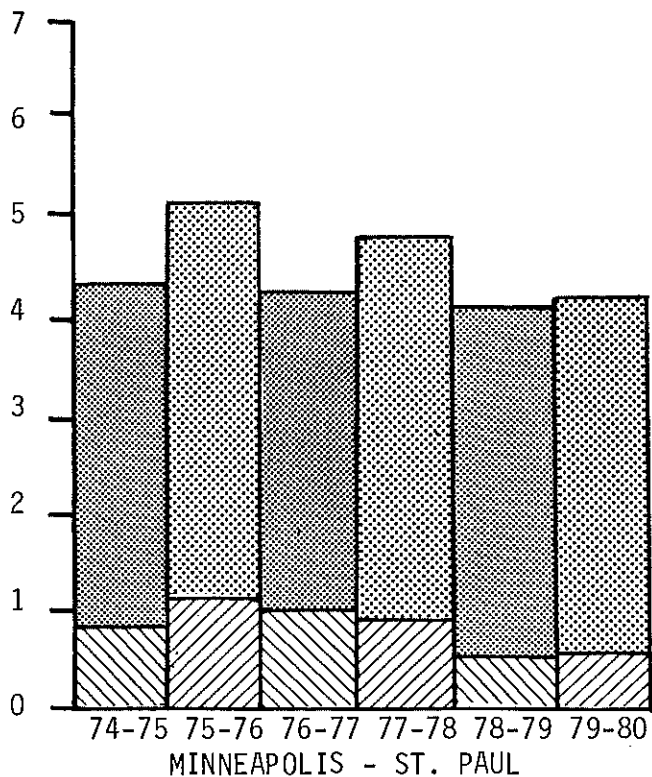
NORTH DAKOTA FLAXSEED SHIPMENTS  
BY DESTINATION  
(million bu.)



NORTH DAKOTA FLAXSEED SHIPMENTS BY RAIL AND TRUCK AND DESTINATION

DESTINATION	1974-75		1975-76		1976-77		1977-78		1978-79		1979-80	
	Rail	Truck	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%)	555 (13%)	3,558 (87%)
DULUTH - SUPERIOR	55 (55%)	291 (84%)	317 (37%)	538 (63%)	102 (36%)	183 (64%)	226 (30%)	522 (70%)	18 (12%)	135 (88%)	53 (27%)	141 (73%)
WEST	0 (0%)	69 (100%)	0 (0%)	60 (100%)	0 (0%)	59 (100%)	0 (0%)	72 (100%)	2 (10%)	19 (90%)	0 (0%)	10 (100%)
MISC. MARKETS	78 (15%)	453 (85%)	31 (6%)	474 (94%)	206 (74%)	74 (26%)	74 (18%)	339 (82%)	32 (10%)	281 (90%)	45 (17%)	218 (83%)
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%)	653 (14%)	3,927 (86%)

NORTH DAKOTA FLAXSEED SHIPMENTS  
BY RAIL AND TRUCK AND DESTINATIONS  
(million bu.)

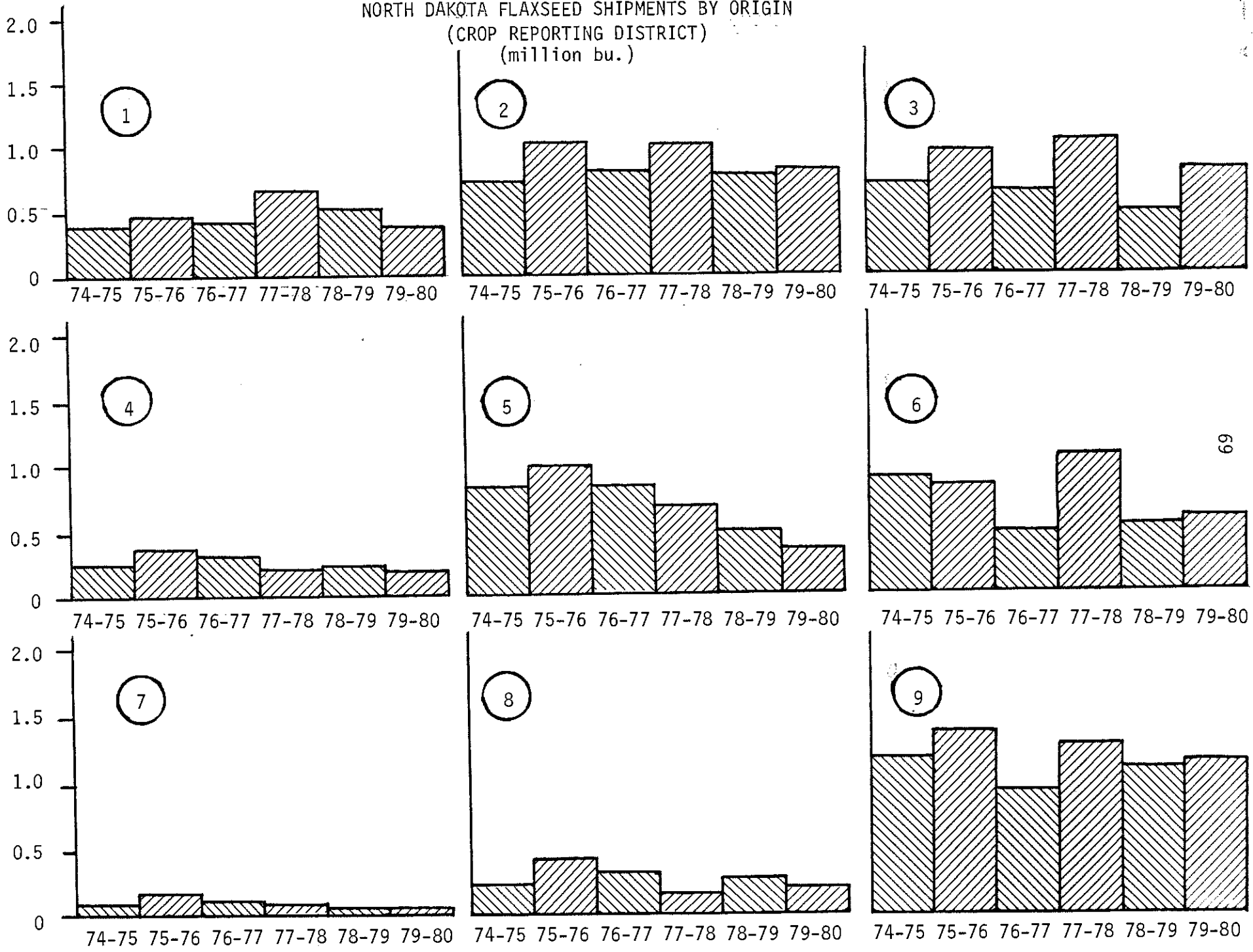




NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)

CROP REPORTING DISTRICT	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
	(thousand bu.)					
1	426	487	450	678	515	398
2	707	1,047	794	1,022	765	752
3	703	929	656	1,054	547	682
4	258	371	307	203	254	207
5	806	986	829	679	474	438
6	889	819	491	1,024	533	641
7	78	135	98	74	57	59
8	236	424	323	145	295	203
9	1,196	1,393	935	1,295	1,102	1,202
TOTAL	5,299	6,591	4,883	6,174	4,542	4,582

NORTH DAKOTA FLAXSEED SHIPMENTS BY ORIGIN  
(CROP REPORTING DISTRICT)  
(million bu.)



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NORTH DAKOTA FLAXSEED SHIPMENTS BY MONTH  
July, 1979 - June, 1980

