



AgEcon SEARCH
RESEARCH IN AGRICULTURAL & APPLIED ECONOMICS

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<http://ageconsearch.umn.edu>
aesearch@umn.edu

*Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.*

378.784
U664
126



**North Dakota Grain and Oilseed
Transportation Statistics
1997-98**

Matt Domine
Douglas Benson

UGPTI Publication No. 126

UPPER GREAT PLAINS TRANSPORTATION INSTITUTE
.....
NORTH DAKOTA STATE UNIVERSITY

Waite Library
Dept. of Applied Economics
University of Minnesota
1994 Buford Ave - 232 ClaOff
St. Paul MN 55108-6040 USA

NDSU

**North Dakota Grain and Oilseed
Transportation Statistics
1997-98**

378.784
4664
126

Matt Domine

Student Research Assistant

and

Douglas Benson

Research Assistant

Upper Great Plains Transportation Institute
North Dakota State University
Fargo, North Dakota

in cooperation with

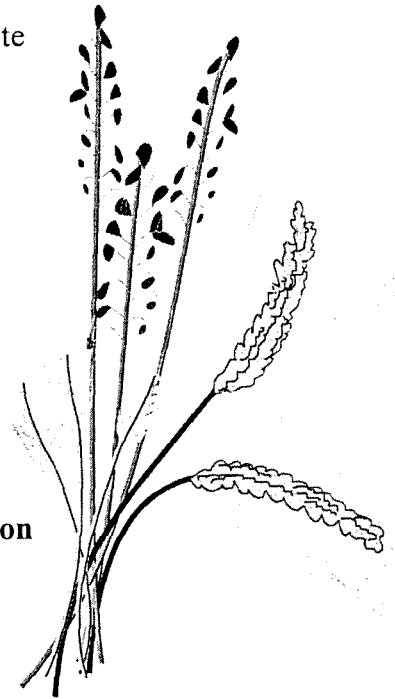
North Dakota Wheat Commission

Bismarck, ND

and

North Dakota Public Service Commission

Bismarck, ND



With special thanks to the North Dakota grain elevator industry who provide these data monthly.

UGPTI

Preface

The 1997-98 North Dakota Grain and Oilseed Transportation Statistics Report was prepared by Matt Domine and Douglas Benson, Upper Great Plains Transportation Institute. The authors gratefully acknowledge the desktop publishing assistance of Bev Trittin in constructing this report.

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 Reports 15, 17, 44, 56, and 86 and Agricultural Experiment Station Bulletin 462. The compilation and analysis of data for the year 1967-68 in this series was 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, these data had been estimated from questionnaires completed by a sample of country elevators.

North Dakota State Wheat Commission

Alan Lee, Chair

Maynard Satrom, Vice Chair
Sharold Geist, Hazen
Tom DeKrey, Steele

Willard Pedersen, Northwood
Frank Dilse, Scranton
Larry Lee, Velva

Neal Fisher, Administrator
Jim Peterson, Marketing Specialist
Margie Martin, Production Promotion Specialist
Ellen Huber, Information Specialist

North Dakota Public Service Commission

Commissioners:

Susan Wefald, President
Bruce Hagen
Leo M. Reinbold

Executive Secretary:

Jon Mielke

CONTENTS

	Page
North Dakota Grain and Oilseed Transportation Statistics	i
<i>Objective of Report</i>	i
<i>Scope of Report</i>	i
<i>Source of Data</i>	i
<i>Organization of the Remainder of the Report</i>	i
North Dakota Crop Reporting Districts and Counties.	ii
Total Grain and Oilseed Shipments	1
Hard Red Spring Wheat	13
Durum	21
Barley	29
Sunflower	37
Oats	45
Soybeans	53
Flaxseed (<i>Historical data only</i>)	61
Corn	69
Canola	77

NORTH DAKOTA GRAIN AND OILSEED TRANSPORTATION STATISTICS 1997-98

Objective of Report

This report represents a continuation of analysis 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 objectives of this report, like prior reports, are to provide the necessary database for identifying trends in the distribution of grain and oilseeds from North Dakota.

Scope of Report

Data are tabulated according to major characteristics which typically describe commodity flows. The major shipment characteristics considered are destination, mode, origin, time and commodity. These characteristics are defined as follows:

- **Destination:** Minneapolis-St. Paul, Duluth-Superior, West (ID, OR, WA), and miscellaneous markets. Miscellaneous markets consist of Other Minnesota/Wisconsin, Midland/Southwest States (AR, AZ, CA, CO, IA, KS, LA, MO, MT, NE, NM, NV, OK, SD, TX, and WY), North Dakota and other destinations.
- **Mode:** Rail or truck. Rail includes Commodity Credit Corporation shipments.
- **Origin:** The nine crop reporting districts in North Dakota (Figure 1).
- **Time:** By month, from July 1997 to June 1998, and previous years.
- **Commodity:** Hard red spring wheat, durum, barley, sunflower, oats, soybeans, flaxseed, corn, and canola.

Source of Data

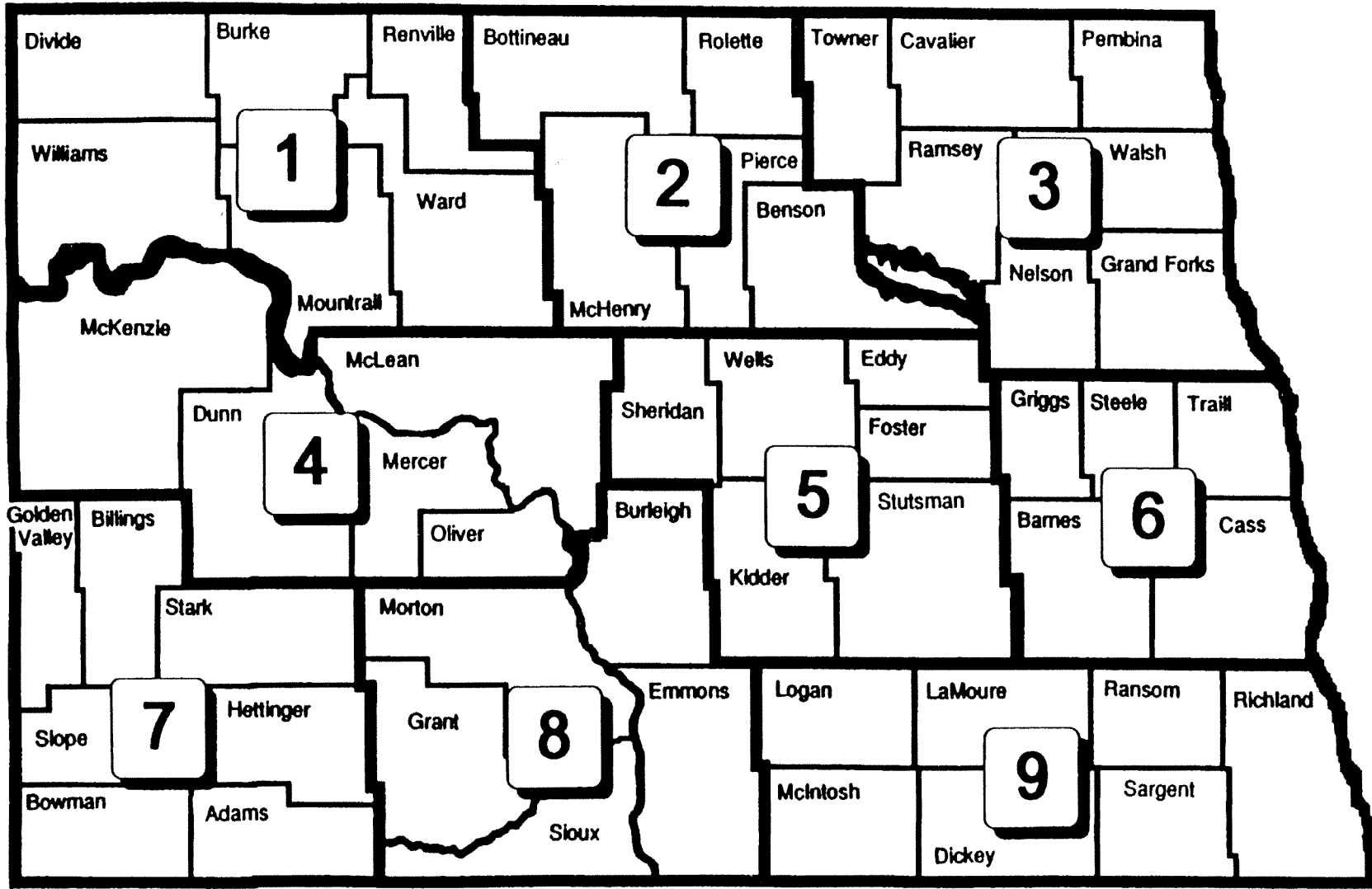
The data used to analyze North Dakota grain distribution patterns for the period July 1997 through June 1998 were obtained from all country elevators in North Dakota. The data source is the North Dakota Public Service Commission's "Grain Movement Report." Every country elevator in North Dakota is required under state statute to assemble and submit a "Grain Movement Report" to the Public Service Commission on a monthly basis.

Organization of the Remainder of the Report

The same general commodity flow characteristics are considered in this report as in previous years' reports. Flow patterns for each type of grain are described in separate sections in the following order: (1) Total Grain and Oilseed Shipments, (2) Hard Red Spring Wheat, (3) Durum, (4) Barley, (5) Sunflower, (6) Oats, (7) Soybeans, (8) flaxseed, (9) Corn, and (10) Canola. Canola replaces flaxseed in the 1997-98 report because of its larger volume of shipments. Flax shipments are reported for historical purposes only.

Some small inconsistencies in totals may be noted when comparing tables and graphs due to rounding error.

1997-98 totals are preliminary, representing 99 percent of the required reports.



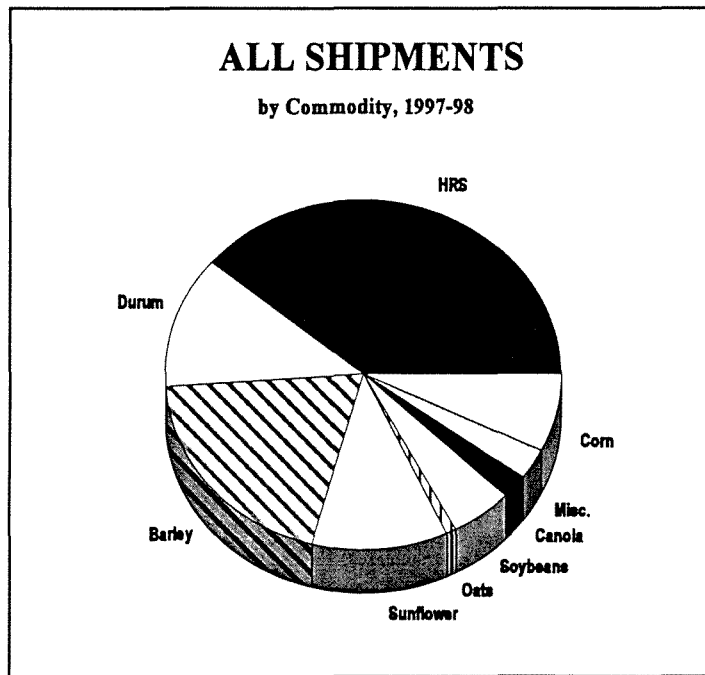
North Dakota Crop Reporting Districts and Counties



**TOTAL
GRAIN & OILSEED
SHIPMENTS**

NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
 1989-90 to 1997-98
 thousand bu.

YEAR	HRS	Durum	Barley	Sunflower	Oats	Soybeans	Canola	Misc.	Corn	TOTAL
1989-90	192,485 40%	72,003 15%	112,256 23%	32,174 7%	5,015 1%	14,015 3%	N/A	15,709 4%	34,764 7%	478,421 100%
1990-91	191,072 38%	78,309 15%	114,046 23%	37,086 7%	5,601 1%	10,185 2%	N/A	41,487 8%	28,434 6%	506,220 100%
1991-92	261,169 43%	83,827 14%	124,755 20%	57,364 9%	7,601 1%	16,464 3%	N/A	25,105 4%	36,084 6%	612,376 100%
1992-93	344,261 (49%)	88,080 12%	131,139 19%	66,965 10%	13,272 2%	15,528 2%	N/A	15,878 3%	18,054 3%	704,083 100%
1993-94	255,377 49%	84,740 16%	111,087 21%	26,582 5%	11,676 2%	9,898 2%	N/A	14,708 2%	8,167 2%	522,235 100%
1994-95	223,886 42%	69,562 13%	120,251 23%	49,921 9%	10,262 2%	14,595 3%	N/A	20,359 3%	24,398 5%	533,234 100%
1995-96	264,379 46%	70,875 13%	103,590 18%	42,338 7%	7,576 1%	20,704 4%	N/A	19,957 3%	35,722 6%	565,141 100%
1996-97	219,045 43%	67,764 13%	107,821 21%	34,935 7%	3,919 0	21,097 4%	N/A	29,319 6%	25,187 5%	509,087 100%
1997-98	180,477 39%	57,567 12%	93,987 20%	49,786 11%	3,122 1%	25,223 5%	8,641 2%	14,753 3%	32,842 7%	466,398 100%



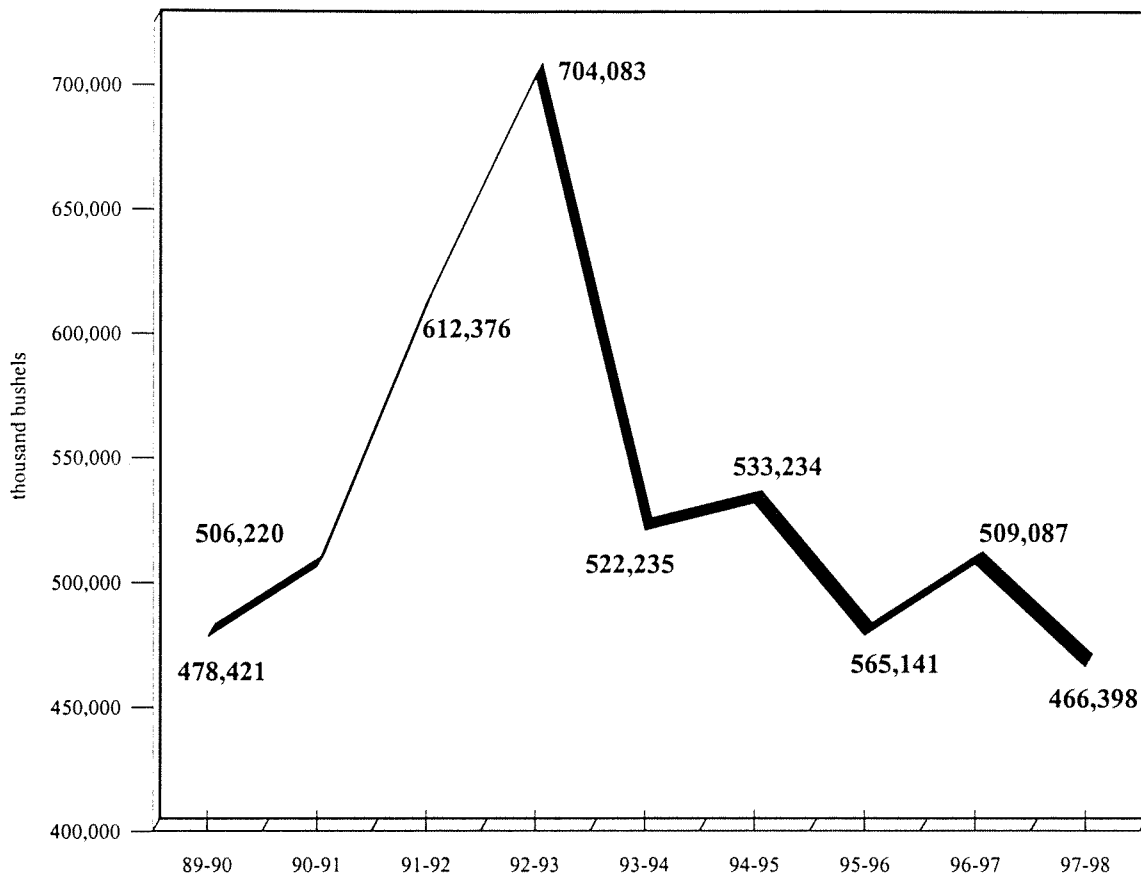
**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
BY DESTINATION
1989-90 to 1997-98
thousand bu.**

YEAR	Minneapolis- St. Paul	Duluth- Superior	West	North Dakota	Misc. Markets	TOTAL
1989-90	107,958 22%	85,112 18%	67,347 14%	54,110 11%	163,894 35%	478,421 100%
1990-91	114,712 23%	80,740 16%	77,311 15%	61,987 12%	171,470 34%	506,220 100%
1991-92	134,437 22%	73,029 12%	75,720 12%	74,695 12%	254,491 42%	612,376 100%
1992-93	145,713 21%	82,087 12%	95,005 13%	89,780 13%	291,497 41%	704,083 100%
1993-94	125,542 24%	66,452 13%	82,949 16%	54,375 10%	191,705 37%	521,023 100%
1994-95	135,193 25%	62,920 12%	82,823 16%	77,563 15%	173,301 33%	531,800 100%
1995-96	129,626 27%	41,540 9%	89,485 19%	60,717 13%	157,513 33%	478,881 100%
1996-97	129,892 26%	61,122 12%	65,378 13%	75,773 15%	175,395 35%	507,560 100%
1997-98	114,800 25%	69,509 15%	62,048 13%	85,893 19%	128,784 28%	466,398 100%

Miscellaneous markets include shipments to Midland/Southwest destinations, other Minnesota/Wisconsin destinations, and all other markets.

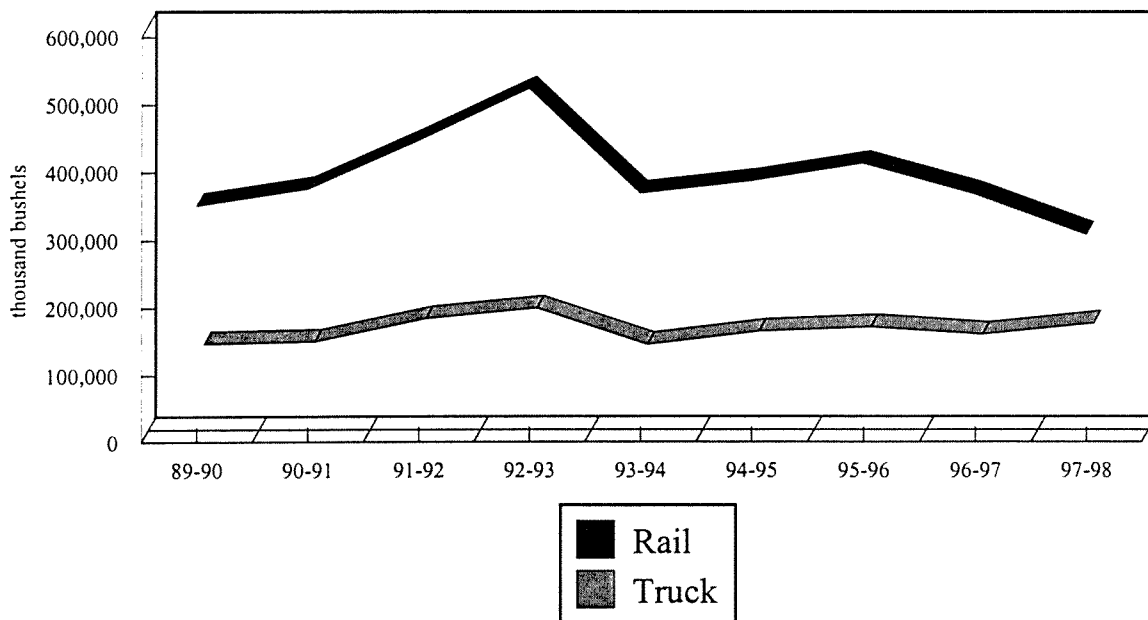
ALL COMMODITY SHIPMENTS

1989-90 to 1997-98



ALL COMMODITY SHIPMENTS

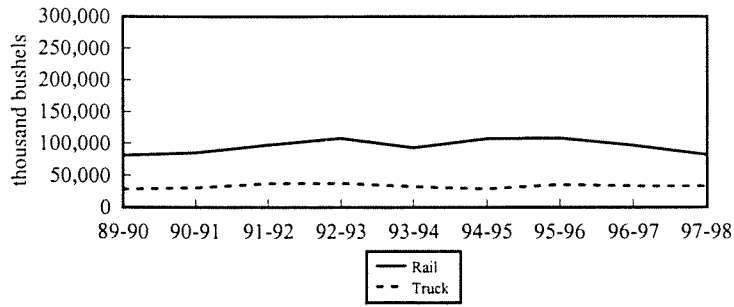
1989-90 to 1997-98



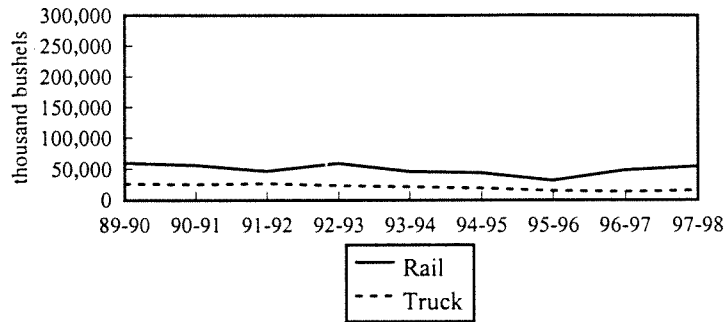
**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
BY RAIL, TRUCK AND DESTINATION**
thousand bu.

YEAR	Minneapolis-St. Paul		Duluth-Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1989-90	80,412 74%	27,546 26%	59,256 70%	25,857 30%	62,826 93%	4,520 7%	148,839 68%	69,165 32%	351,333 73%	127,088 27%
1990-91	85,295 74%	29,416 26%	55,844 69%	24,896 31%	74,543 96%	2,768 4%	160,029 69%	73,430 31%	375,712 74%	130,510 26%
1991-92	97,591 73%	36,846 27%	46,537 64%	26,492 36%	72,253 95%	3,466 5%	231,055 70%	98,129 30%	447,439 73%	164,937 27%
1992-93	108,441 74%	37,272 26%	59,021 72%	23,067 28%	90,912 96%	4,093 4%	265,465 70%	115,813 30%	523,839 74%	180,244 26%
1993-94	93,217 74%	32,325 26%	46,027 69%	20,425 31%	80,290 97%	2,659 3%	176,662 71%	70,629 29%	396,196 76%	126,038 24%
1994-95	107,058 79%	28,135 21%	43,896 70%	19,023 30%	79,837 96%	2,986 4%	156,650 62%	94,214 38%	387,618 73%	145,615 27%
1995-96	108,390 76%	34,999 24%	31,650 68%	14,922 32%	100,810 97%	3,320 3%	172,447 64%	98,603 36%	413,297 73%	151,844 27%
1996-97	96,776 75%	33,116 25%	47,834 78%	13,288 22%	63,648 97%	1,730 3%	159,569 63%	93,127 37%	367,827 72%	141,261 28%
1997-98	81,840 71%	32,960 29%	54,023 78%	15,486 22%	59,553 96%	2,496 4%	110,855 59%	77,445 41%	308,542 66%	157,855 34%

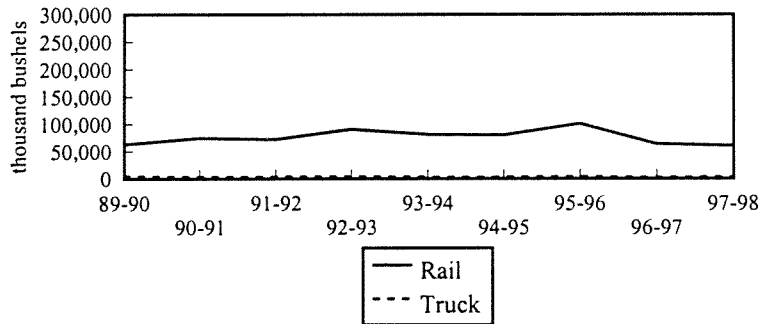
ALL SHIPMENTS TO MINNEAPOLIS
1989-90 to 1997-98



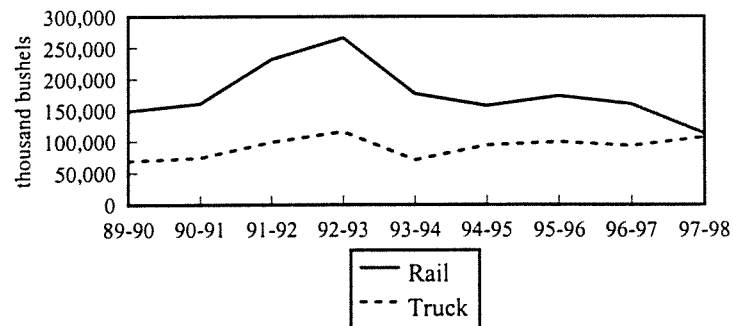
ALL SHIPMENTS TO DULUTH-SUPERIOR
1989-90 to 1997-98



ALL SHIPMENTS TO WEST
1989-90 to 1997-98



ALL SHIPMENTS TO MISCELLANEOUS MARKETS
1989-90 to 1997-98

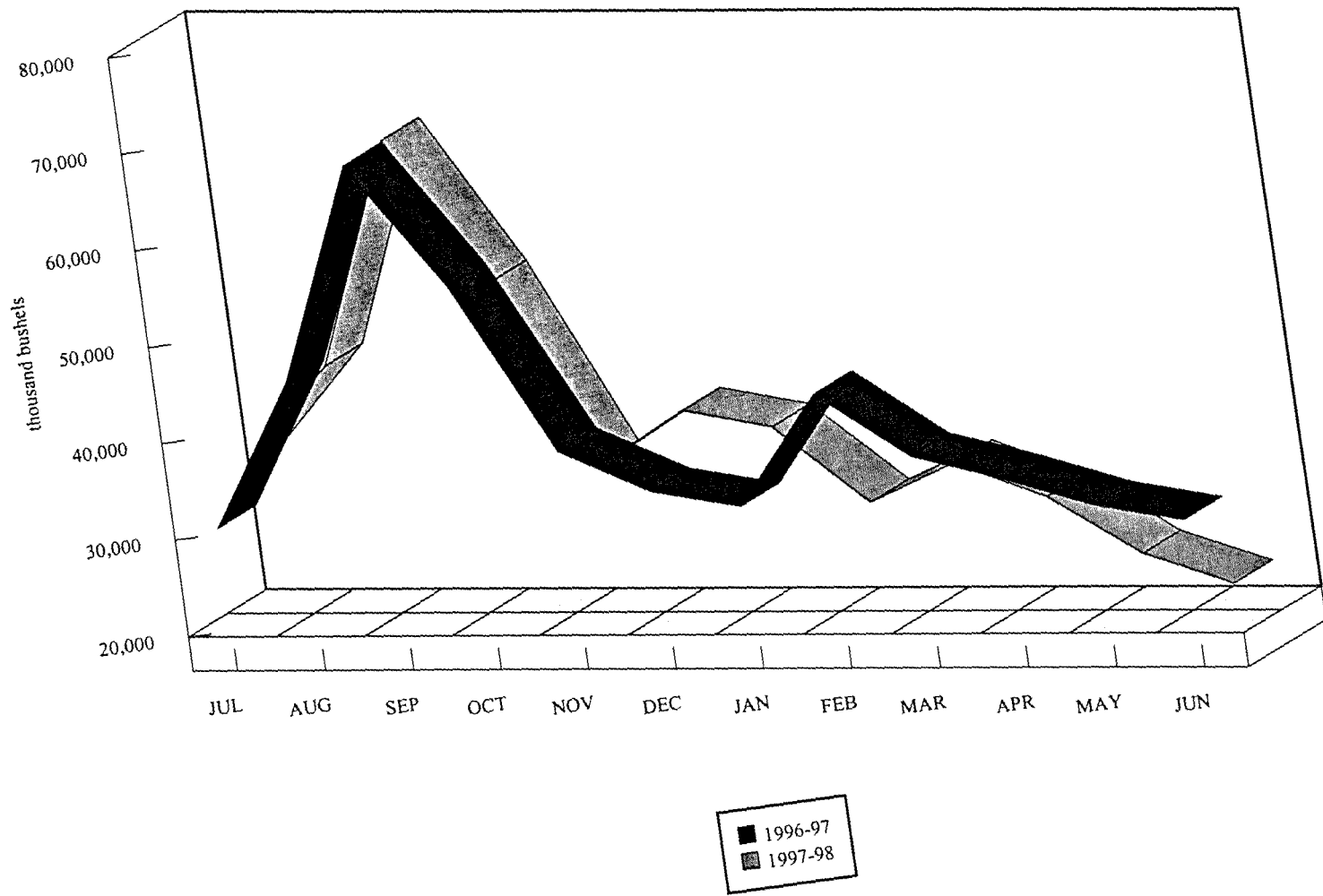


**NORTH DAKOTA GRAIN AND OILSEED MOVEMENTS
BY MONTH
July 1997 - June 1998
thousand bu.**

MONTH	HRS	Durum	Soybeans	Canola	Barley	Oats	Corn	SF	Misc.	TOTAL
July	14,256	6,133	745	15	7,455	216	3,068	2,768	1,160	35,816
August	19,774	6,353	623	167	12,133	534	2,192	2,616	1,172	45,564
September	30,825	8,862	1,691	5,688	16,314	667	938	2,445	1,491	68,921
October	14,825	5,064	9,677	1,134	9,589	434	2,664	8,640	2,096	54,123
November	9,983	4,776	1,755	236	6,757	227	3,909	6,184	1,396	35,223
December	15,036	4,699	2,003	170	7,875	183	4,567	4,879	1,368	40,780
January	14,872	4,803	2,314	315	8,036	190	2,708	4,929	909	39,076
February	10,999	3,399	1,087	123	6,241	295	4,542	3,511	1,025	31,222
March	12,847	3,932	1,896	233	5,449	143	3,892	5,630	1,245	35,267
April	14,193	3,403	1,116	233	4,833	93	2,018	4,817	1,096	31,802
May	12,335	3,578	1,137	283	4,473	29	1,009	2,036	978	25,858
June	10,530	2,565	1,179	44	4,831	111	1,334	1,331	817	22,742
TOTAL	180,477	57,567	25,223	8,641	93,987	3,122	32,842	49,786	14,753	466,398

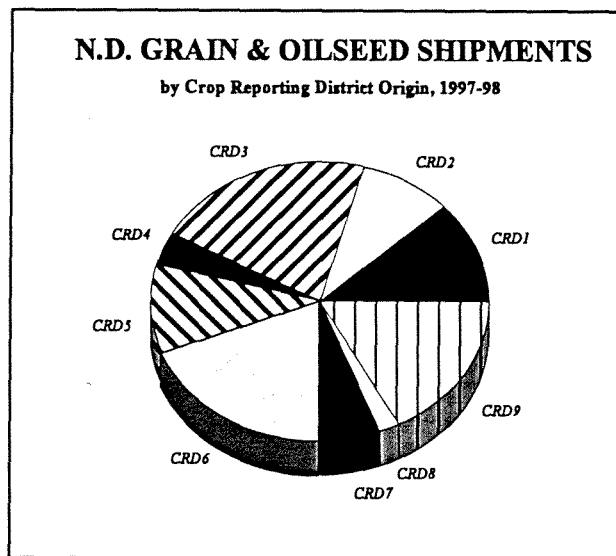
ALL COMMODITY SHIPMENTS

by Month, 1996-97 and 1997-98



**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN
1989-90 to 1997-98
thousand bu.**

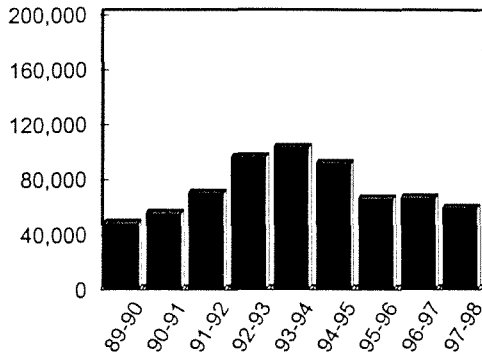
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	47,958 10%	35,000 7%	124,101 26%	10,596 2%	35,032 7%	109,025 23%	22,581 5%	6,830 2%	87,298 18%	478,421 100%
1990-91	55,109 11%	41,253 8%	117,055 23%	13,028 3%	41,778 8%	118,104 23%	15,336 3%	6,649 1%	97,908 19%	506,220 100%
1991-92	69,889 11%	49,595 8%	151,523 25%	15,580 3%	58,815 10%	130,741 21%	24,399 4%	12,668 2%	99,162 16%	612,376 100%
1992-93	96,075 14%	55,530 8%	181,745 26%	20,567 3%	71,819 10%	132,408 19%	32,897 4%	15,456 2%	97,586 14%	704,083 100%
1993-94	103,040 20%	53,735 10%	97,901 19%	20,403 4%	52,754 10%	83,265 16%	34,439 7%	14,575 3%	62,130 12%	522,243 100%
1994-95	91,367 17%	49,478 9%	100,348 19%	19,720 3%	48,491 9%	98,499 18%	27,633 5%	12,594 2%	84,602 16%	533,233 100%
1995-96	65,800 14%	35,946 7%	100,984 21%	15,556 3%	44,277 9%	91,036 19%	27,679 6%	14,019 3%	84,994 18%	480,291 100%
1996-97	66,373 13%	48,027 9%	123,753 24%	18,384 4%	45,560 9%	97,604 19%	24,972 5%	10,412 2%	74,002 15%	509,087 100%
1997-98	58,870 12%	44,293 9%	96,533 21%	17,345 4%	44,958 10%	86,910 19%	27,709 6%	10,693 2%	79,087 17%	466,398 100%



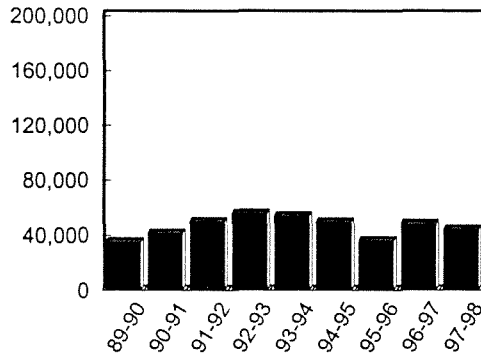
ALL GRAIN AND OILSEED SHIPMENTS BY CROP REPORTING DISTRICT

(thousand bushels)

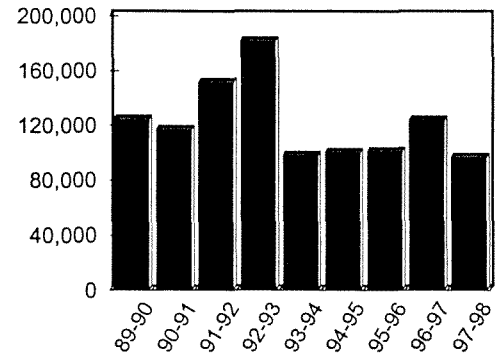
CRD 1



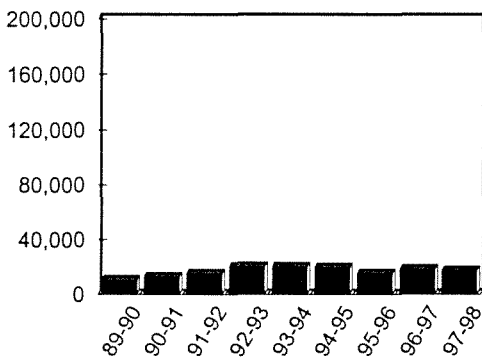
CRD 2



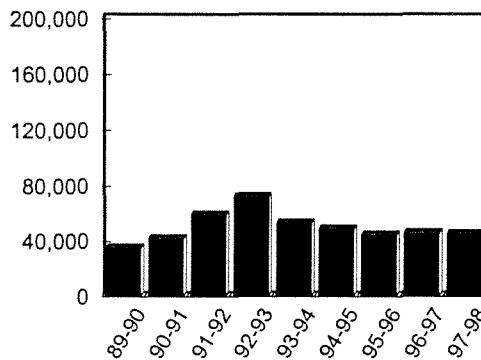
CRD 3



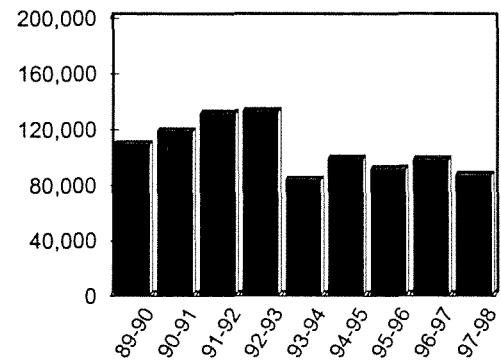
CRD 4



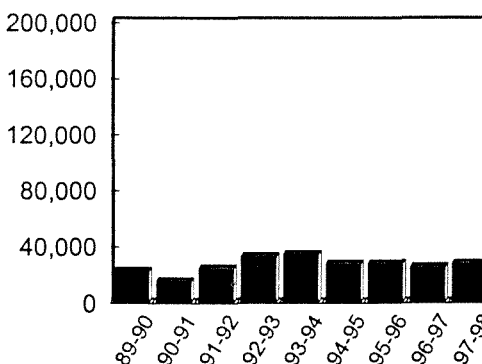
CRD 5



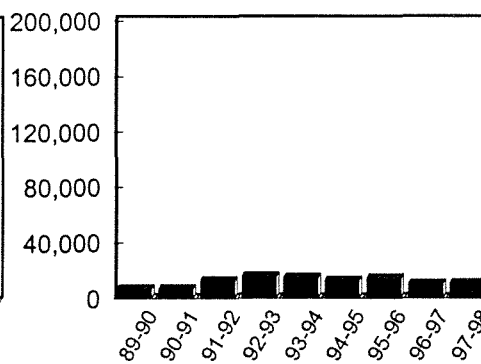
CRD 6



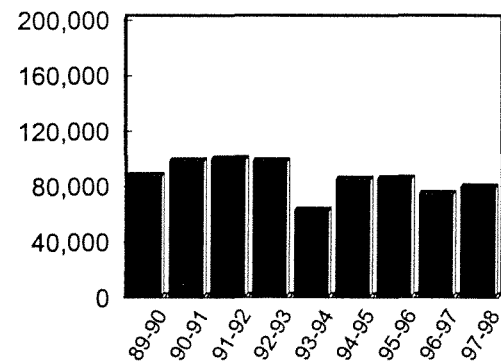
CRD 7



CRD 8



CRD 9





***HRS
WHEAT
SHIPMENTS***

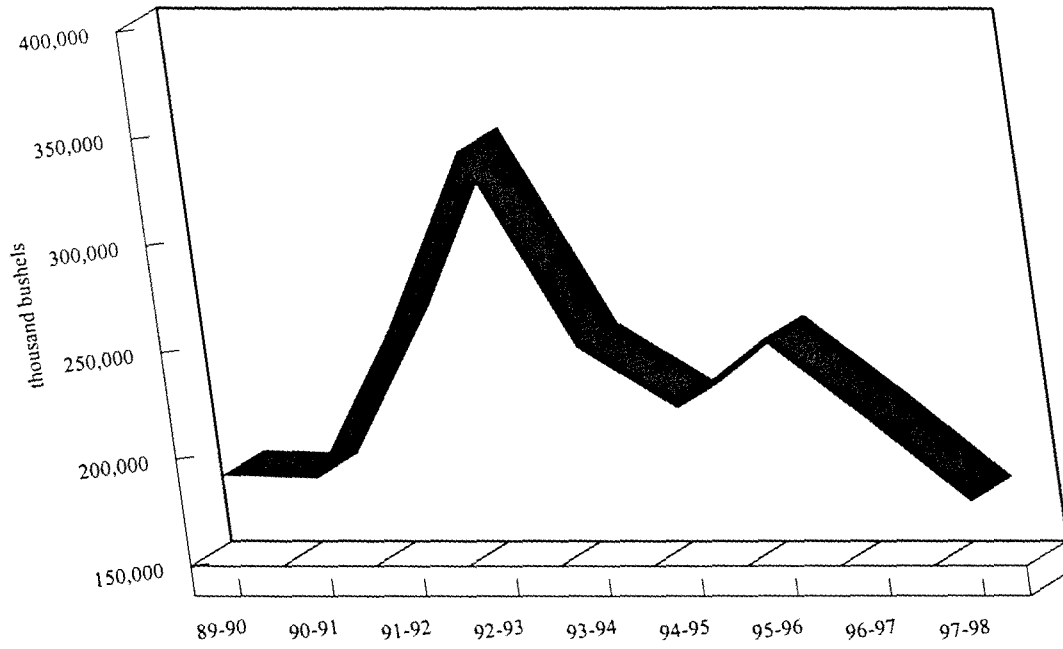
**NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis- St. Paul	Duluth- Superior	West	Misc. Markets	TOTAL
1989-90	58,880 31%	38,510 20%	25,131 13%	69,964 36%	192,485 100%
1990-91	56,356 29%	39,229 21%	39,521 21%	55,966 29%	191,072 100%
1991-92	74,751 29%	23,891 9%	29,125 11%	133,400 51%	261,169 100%
1992-93	81,210 24%	38,573 11%	62,458 18%	162,021 47%	344,261 100%
1993-94	64,995 25%	36,159 14%	66,186 26%	88,036 34%	255,376 100%
1994-95	62,588 28%	34,840 16%	52,971 24%	73,487 33%	223,886 100%
1995-96	65,828 29%	25,666 11%	47,294 21%	90,718 40%	229,506 100%
1996-97	64,913 30%	35,353 16%	36,584 17%	82,195 38%	219,045 100%
1997-98	54,820 30%	33,740 19%	32,475 18%	59,441 33%	180,477 100%

Miscellaneous markets include shipments to Midland/Southwest destinations 10%, other Minnesota/Wisconsin destinations 3%, and all other markets including North Dakota processors 6%.

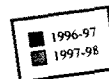
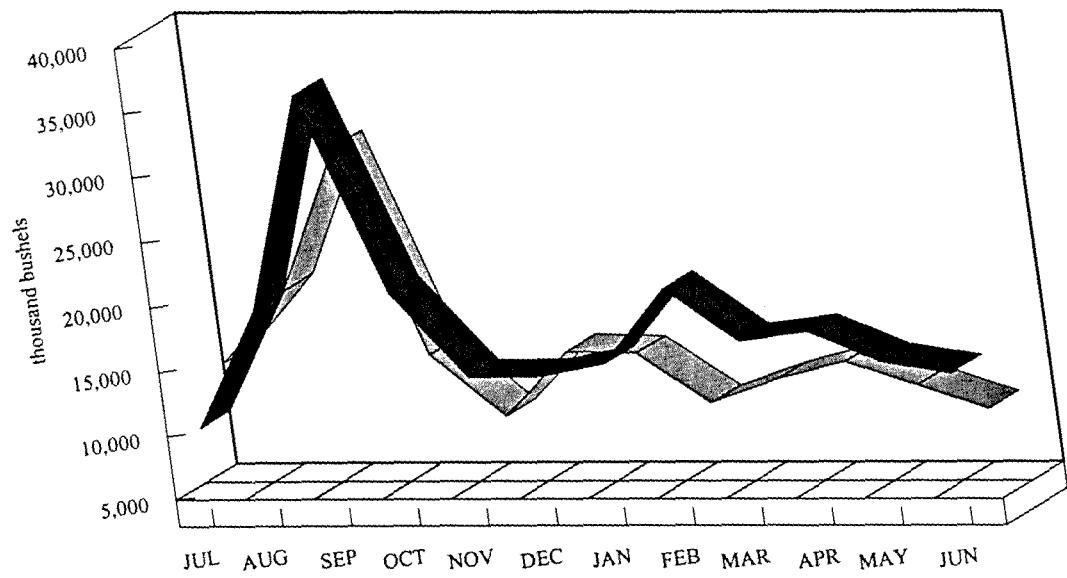
HRS WHEAT SHIPMENTS

1989-90 to 1997-98



HRS WHEAT SHIPMENTS

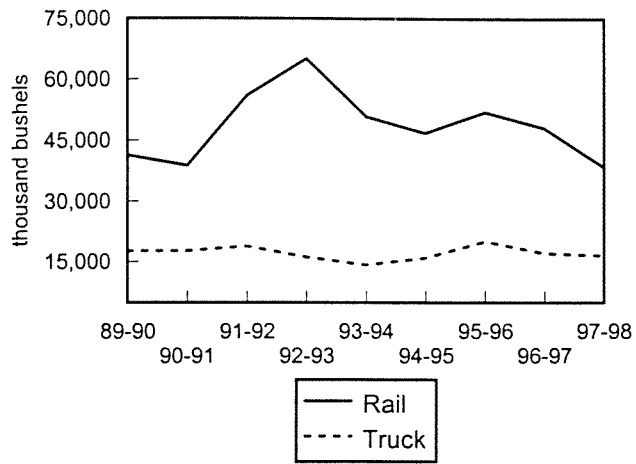
by Month, 1996-97 to 1997-98



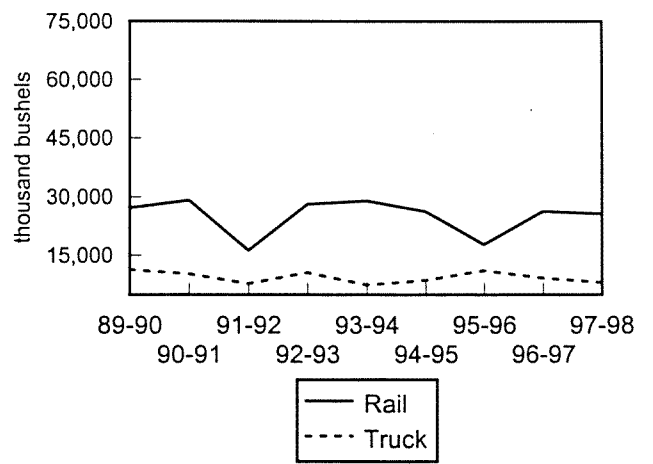
**NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY RAIL, TRUCK AND DESTINATION
thousand bu.**

YEAR	Minneapolis-St. Paul		Duluth-Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1989-90	41,249 70%	17,631 30%	27,148 70%	11,362 30%	21,552 86%	3,578 14%	57,236 82%	12,728 18%	147,186 76%	45,299 24%
1990-91	38,707 69%	17,649 31%	29,079 74%	10,150 26%	37,359 95%	2,162 5%	45,281 81%	10,685 19%	150,426 79%	40,646 21%
1991-92	55,940 75%	18,811 25%	16,154 68%	7,737 32%	27,087 83%	2,037 17%	116,553 87%	16,843 13%	215,738 83%	45,431 17%
1992-93	65,059 80%	16,150 20%	27,958 72%	10,616 28%	60,140 96%	2,317 4%	148,773 92%	13,247 8%	301,930 88%	42,331 12%
1993-94	50,783 78%	14,212 22%	28,891 80%	7,269 20%	64,035 97%	2,151 3%	76,547 87%	11,489 13%	220,256 86%	35,121 14%
1994-95	46,658 75%	15,931 25%	26,243 75%	8,597 25%	50,957 96%	2,014 4%	61,514 83%	11,972 17%	185,372 83%	38,514 17%
1995-96	51,915 72%	19,945 28%	17,745 62%	11,097 38%	54,151 96%	2,073 4%	90,231 84%	17,222 16%	214,042 81%	50,337 19%
1996-97	47,890 74%	17,023 26%	26,184 74%	9,168 26%	35,103 96%	1,480 4%	69,268 84%	12,927 16%	178,445 81%	40,598 19%
1997-98	38,332 70%	16,489 30%	25,658 76%	8,082 24%	30,607 94%	1,868 6%	45,670 77%	13,771 23%	140,267 78%	40,211 22%

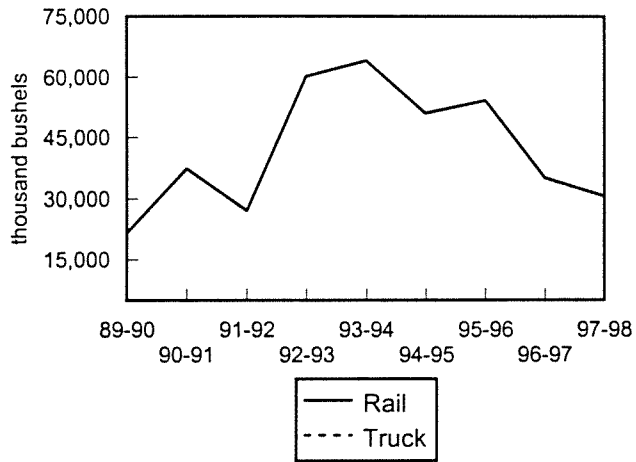
HRS WHEAT TO MINNEAPOLIS
1989-90 to 1997-98



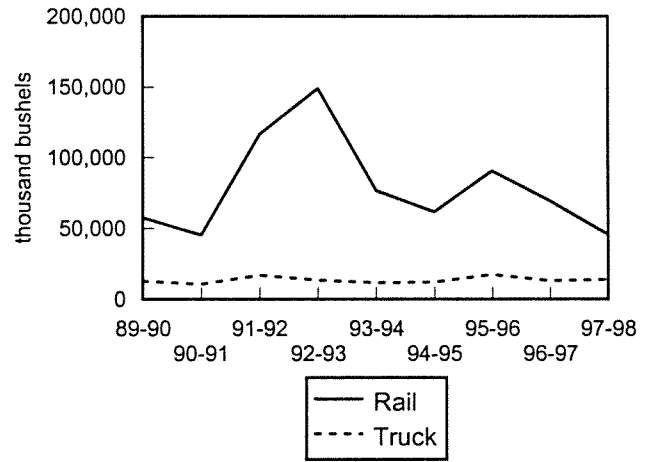
HRS WHEAT TO DULUTH-SUPERIOR
1989-90 to 1997-98



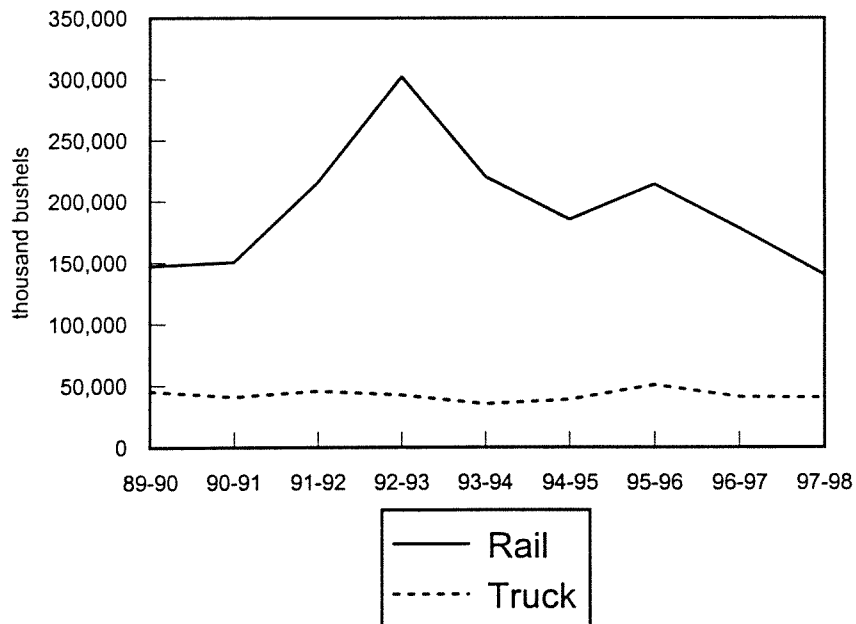
HRS WHEAT TO WEST
1989-90 to 1997-98



HRS WHEAT TO MISCELLANEOUS MARKETS
1989-90 to 1997-98

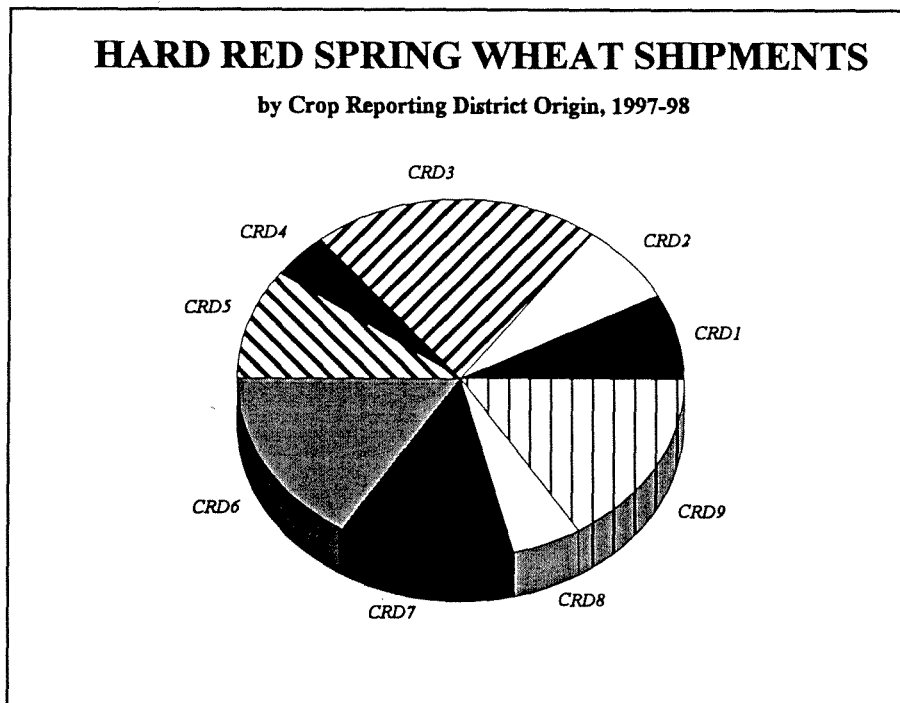


HRS WHEAT SHIPMENTS
1989-90 to 1997-98



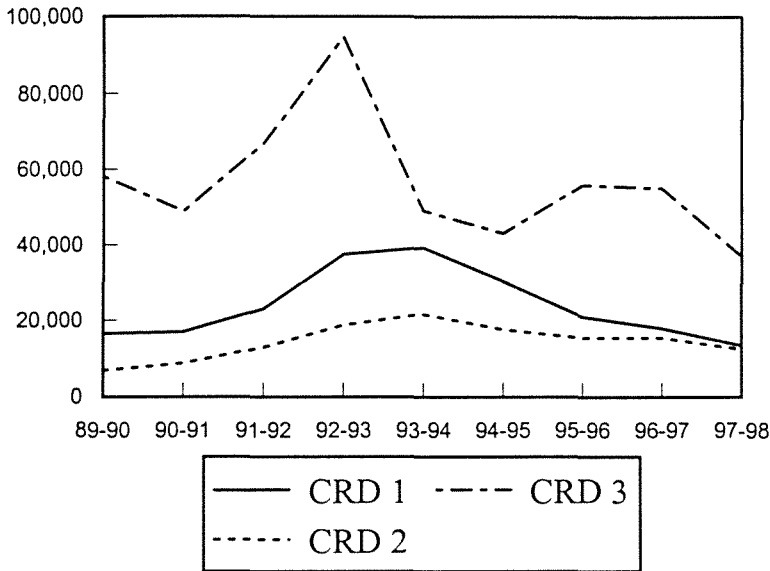
**NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	16,523 9%	6,775 4%	58,154 30%	4,477 2%	15,229 8%	40,511 21%	18,217 9%	5,043 3%	27,556 14%	192,485 100%
1990-91	16,896 9%	8,751 5%	48,869 26%	5,299 3%	20,484 11%	46,365 24%	12,921 7%	5,890 3%	25,597 13%	191,072 100%
1991-92	22,914 9%	12,920 5%	66,696 26%	7,854 3%	28,334 11%	53,005 20%	21,429 8%	11,389 4%	36,623 14%	261,169 100%
1992-93	37,519 10%	18,768 5%	94,790 28%	10,260 5%	36,094 10%	57,697 17%	29,701 9%	12,519 4%	46,910 14%	344,261 100%
1993-94	39,245 15%	21,662 8%	49,068 19%	12,029 5%	30,307 12%	36,024 14%	30,409 12%	11,719 5%	24,913 10%	255,377 100%
1994-95	30,429 14%	17,669 8%	43,099 19%	10,003 4%	23,169 10%	32,962 15%	25,078 11%	9,900 4%	31,576 14%	223,886 100%
1995-96	26,395 10%	19,336 8%	58,232 23%	9,840 4%	28,109 11%	39,401 15%	28,825 11%	12,690 5%	33,075 13%	225,904 100%
1996-97	17,973 8%	15,443 7%	55,052 25%	8,604 4%	21,990 10%	37,985 17%	21,830 10%	9,848 4%	30,319 14%	219,045 100%
1997-98	13,517 8%	12,487 7%	37,081 21%	7,719 4%	18,775 10%	28,459 16%	23,779 13%	9,598 5%	29,062 16%	180,477 100%

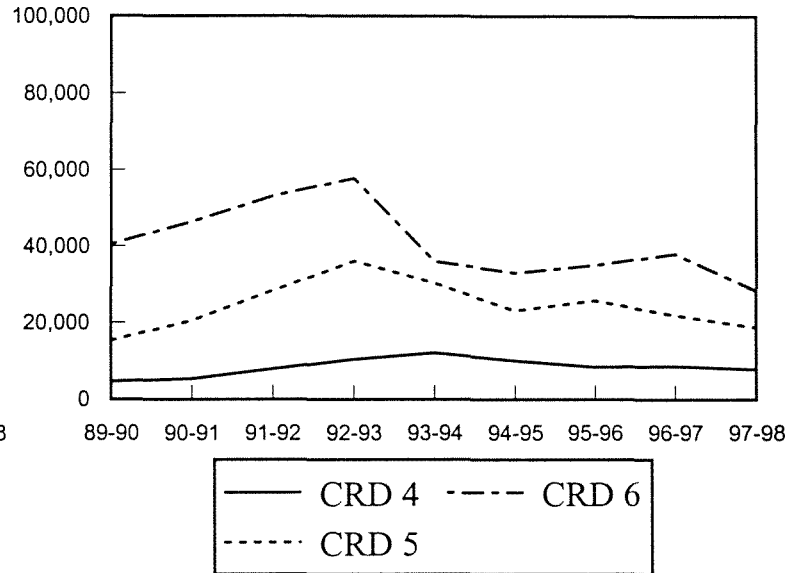


HARD RED SPRING WHEAT SHIPMENTS BY CROP REPORTING DISTRICT

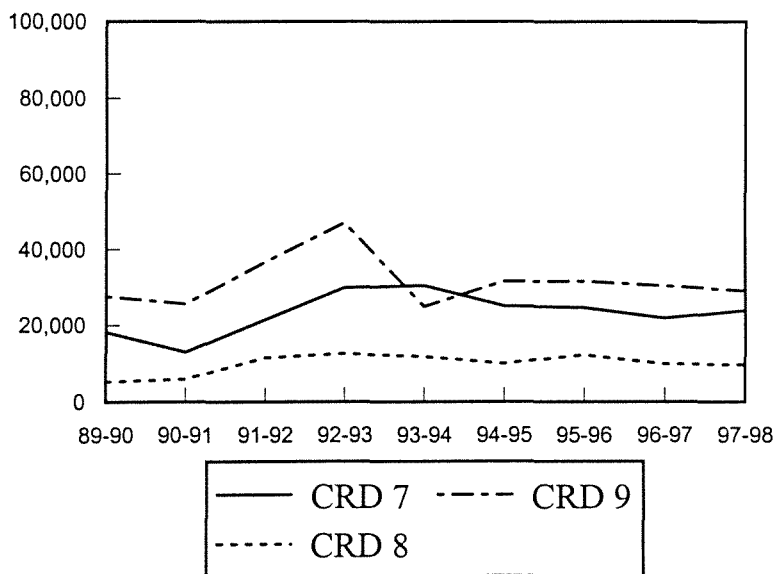
NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***DURUM
SHIPMENTS***

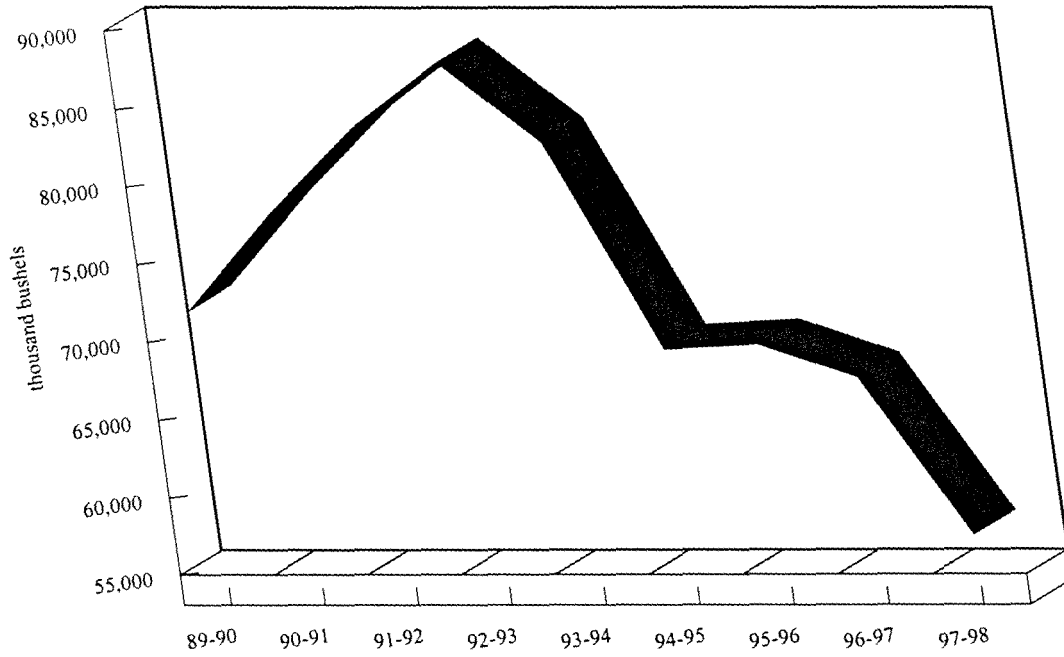
**NORTH DAKOTA DURUM SHIPMENTS
BY DESTINATION**
thousand bu.

YEAR	Minneapolis - St. Paul	Duluth- Superior	West	Misc. Markets	TOTAL
1989-90	15,612 22%	21,103 29%	1,127 2%	34,161 47%	72,003 100%
1990-91	18,159 23%	24,167 31%	929 1%	35,054 45%	78,309 100%
1991-92	16,379 20%	26,063 31%	1,191 1%	40,191 48%	83,827 100%
1992-93	19,434 22%	20,627 23%	2,424 3%	45,596 52%	88,080 100%
1993-94	21,155 25%	12,798 15%	2,359 3%	48,428 57%	84,740 100%
1994-95	25,295 36%	6,592 9%	1,569 2%	36,105 52%	69,562 100%
1995-96	22,470 32%	7,481 11%	693 1%	40,231 57%	70,875 100%
1996-97	23,003 34%	10,430 15%	879 1%	33,452 49%	67,764 100%
1997-98	18,504 32%	9,088 16%	217 1%	29,758 51%	57,567 100%

Miscellaneous markets include shipments to Midland/Southwest destinations 15%, other Minnesota/Wisconsin destinations 7%, and all other markets including North Dakota processors 17%.

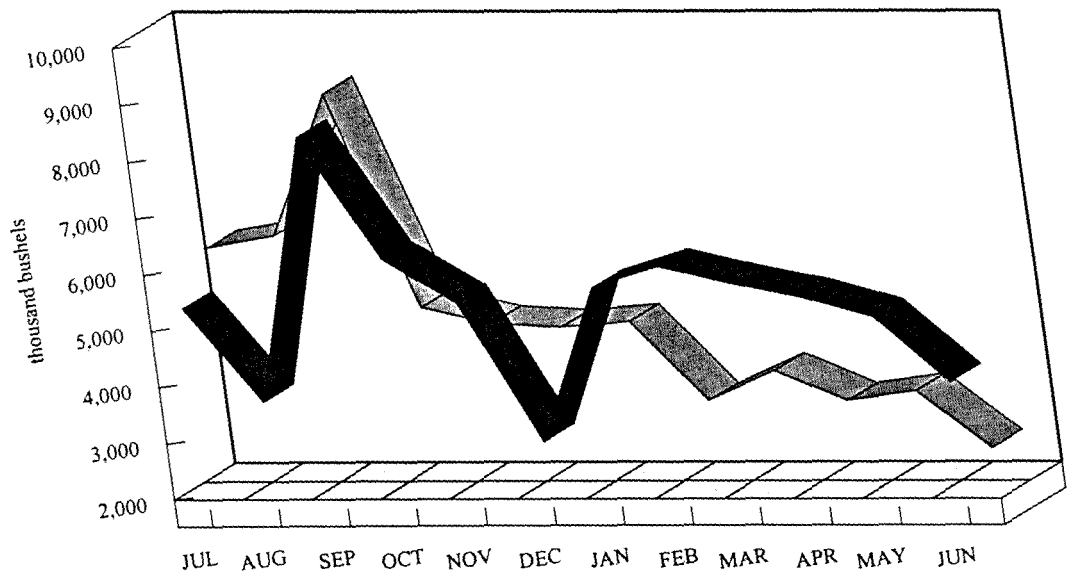
DURUM SHIPMENTS

1989-90 to 1997-98



DURUM SHIPMENTS

by Month, 1996-97 to 1997-98

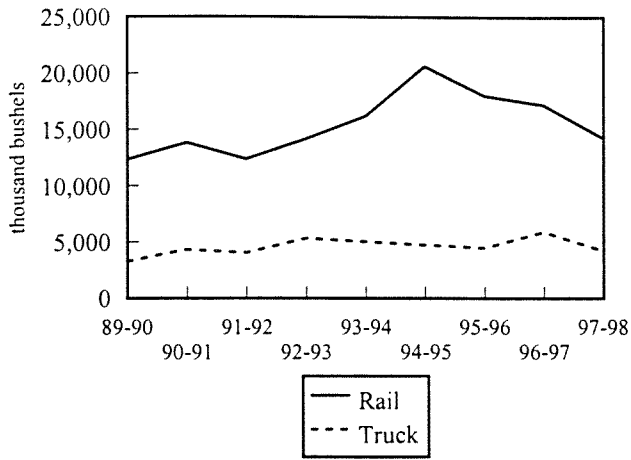


■ 1996-97
■ 1997-98

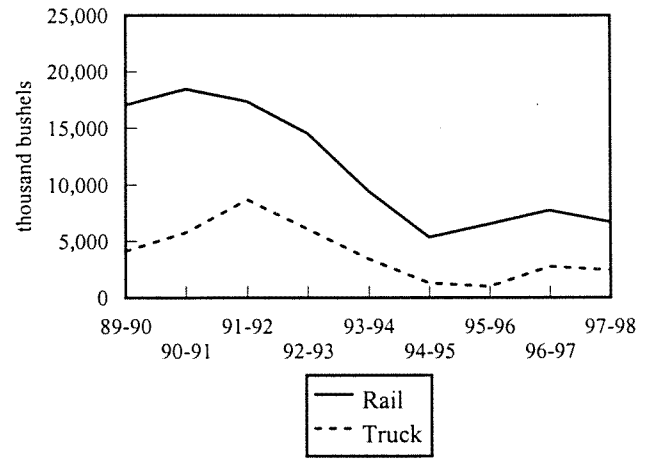
**NORTH DAKOTA DURUM SHIPMENTS
BY RAIL, TRUCK AND DESTINATION**
thousand bu.

YEAR	Minneapolis - St. Paul		Duluth - Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1989-90	12,346 79%	3,265 21%	17,022 81%	4,081 19%	1,118 99%	8 1%	28,039 82%	6,123 18%	58,525 81%	13,478 19%
1990-91	13,842 76%	4,317 24%	18,463 76%	5,705 24%	914 98%	15 2%	28,391 81%	6,662 19%	61,610 79%	16,699 21%
1991-92	12,373 76%	4,005 24%	17,382 67%	8,680 33%	1,149 96%	42 4%	18,479 78%	5,162 22%	65,658 78%	18,168 22%
1992-93	14,129 73%	5,305 27%	14,565 71%	6,062 29%	2,317 96%	106 4%	39,340 86%	6,256 14%	70,351 80%	17,730 20%
1993-94	16,165 76%	4,990 24%	9,406 73%	3,392 27%	2,358 100%	0 0%	42,467 88%	5,961 12%	70,396 83%	14,343 17%
1994-95	20,604 81%	4,691 19%	5,326 81%	1,265 19%	1,555 99%	14 1%	28,797 80%	7,307 20%	56,284 81%	13,277 19%
1995-96	18,013 80%	4,456 20%	6,514 87%	967 13%	690 100%	2 0%	33,341 83%	6,888 17%	58,558 83%	12,313 17%
1996-97	17,168 75%	5,835 25%	7,725 74%	2,705 26%	838 95%	41 5%	28,485 85%	4,966 15%	54,216 80%	13,457 20%
1997-98	14,284 77%	4,220 23%	6,658 73%	2,430 27%	214 99%	3 1%	25,144 85%	4,614 15%	46,300 80%	11,266 20%

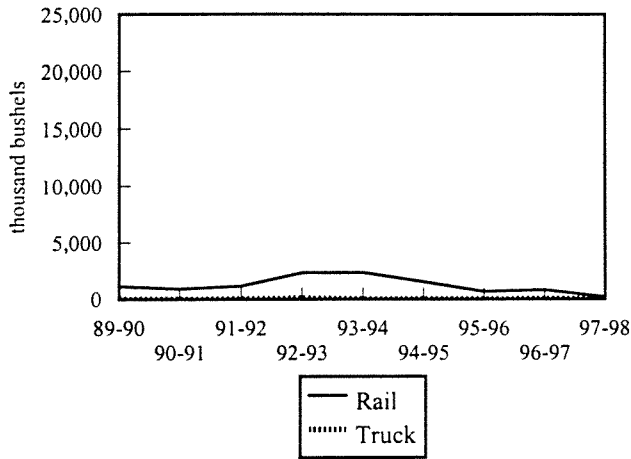
DURUM TO MINNEAPOLIS
1989-90 to 1997-98



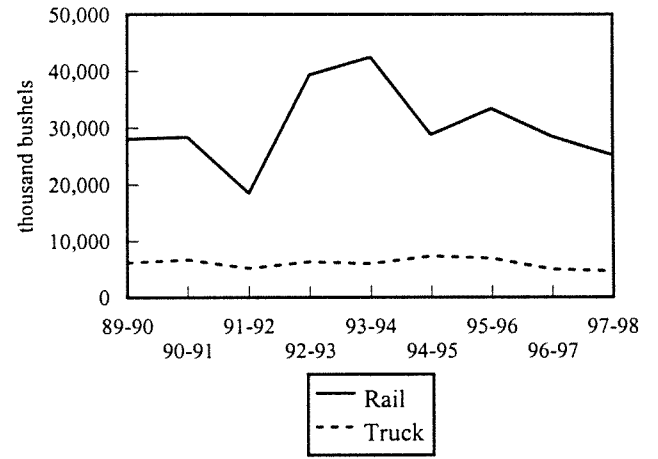
DURUM TO DULUTH-SUPERIOR
1989-90 to 1997-98



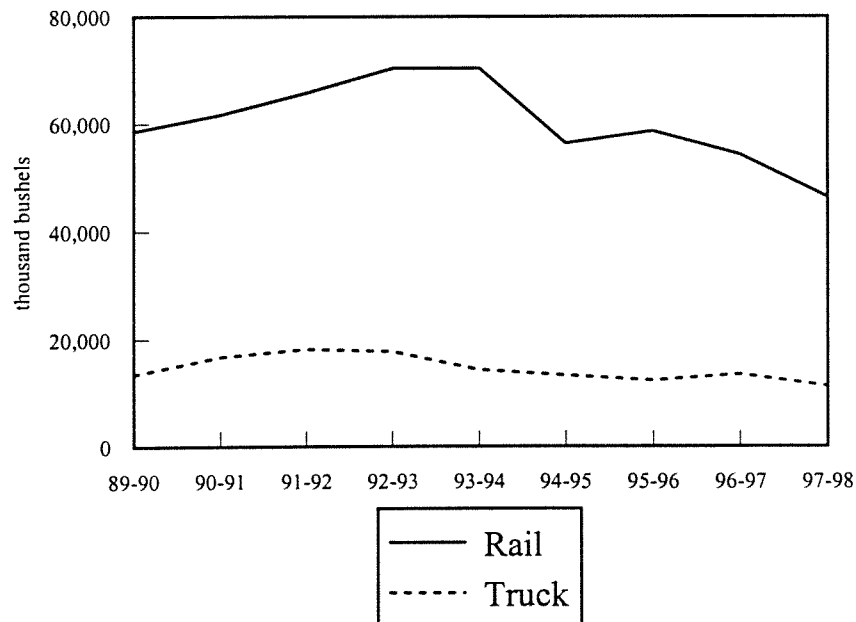
DURUM TO WEST
1989-90 to 1997-98



DURUM TO MISCELLANEOUS MARKETS
1989-90 to 1997-98

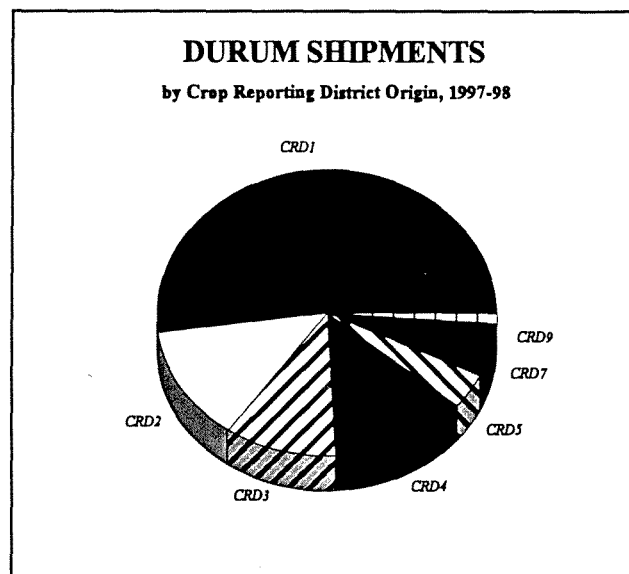


DURUM SHIPMENTS
1989-90 to 1997-98



**NORTH DAKOTA DURUM SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

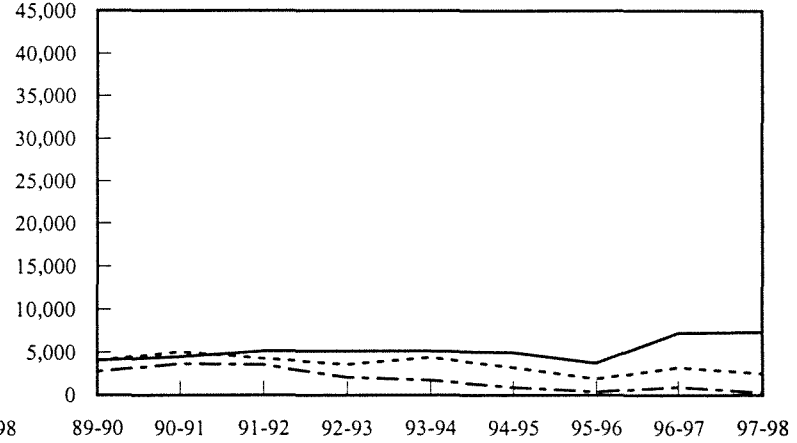
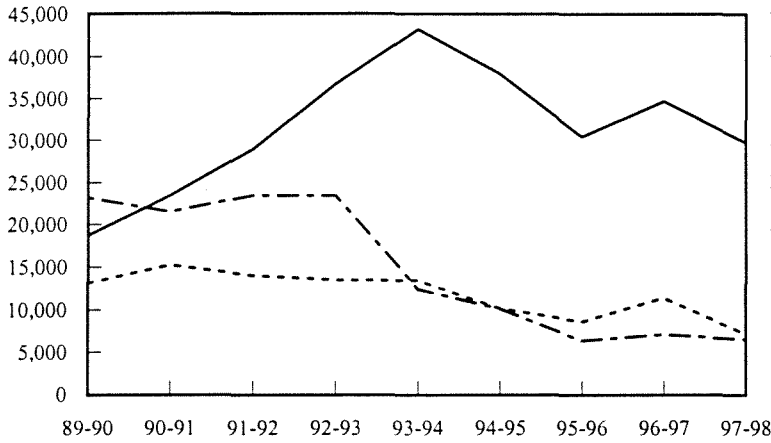
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	18,690 26%	13,063 18%	23,198 32%	4,035 6%	4,013 5%	2,703 4%	2,991 4%	478 1%	2,832 4%	72,003 100%
1990-91	23,441 30%	15,241 19%	21,489 27%	4,446 6%	5,039 6%	3,641 5%	2,008 3%	175 0%	2,829 4%	78,309 100%
1991-92	28,978 35%	14,003 17%	23,461 28%	5,114 6%	4,269 5%	3,485 4%	1,874 2%	193 0%	2,445 3%	83,827 100%
1992-93	36,683 42%	13,516 15%	23,491 27%	5,136 6%	3,547 4%	2,012 2%	1,711 2%	430 0%	1,551 2%	88,080 100%
1993-94	43,240 51%	13,427 16%	12,421 15%	5,118 6%	4,358 5%	1,704 2%	2,661 3%	242 0%	1,570 2%	84,741 100%
1994-95	37,975 55%	10,178 15%	10,158 15%	4,956 7%	3,210 5%	883 1%	1,301 2%	152 0%	747 1%	69,562 100%
1995-96	37,541 53%	10,727 15%	9,254 13%	6,415 9%	3,574 5%	418 1%	2,477 4%	115 0%	352 1%	70,815 100%
1996-97	34,706 51%	11,381 17%	7,117 11%	7,216 11%	3,220 5%	905 1%	2,589 4%	109 0%	522 1%	67,765 100%
1997-98	29,731 52%	7,204 13%	6,520 11%	7,352 13%	2,484 4%	240 0%	3,469 6%	137 0%	429 1%	57,567 100%



DURUM SHIPMENTS BY CROP REPORTING DISTRICT

NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)

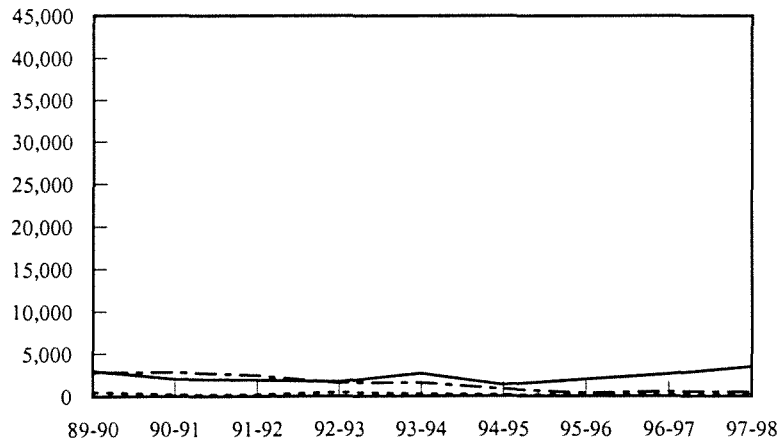
CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



— CRD 1 - - - - CRD 3
 ····· CRD 2

— CRD 4 - - - - CRD 6
 ····· CRD 5

SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)



— CRD 7 - - - - CRD 9
 ····· CRD 8



***BARLEY
SHIPMENTS***

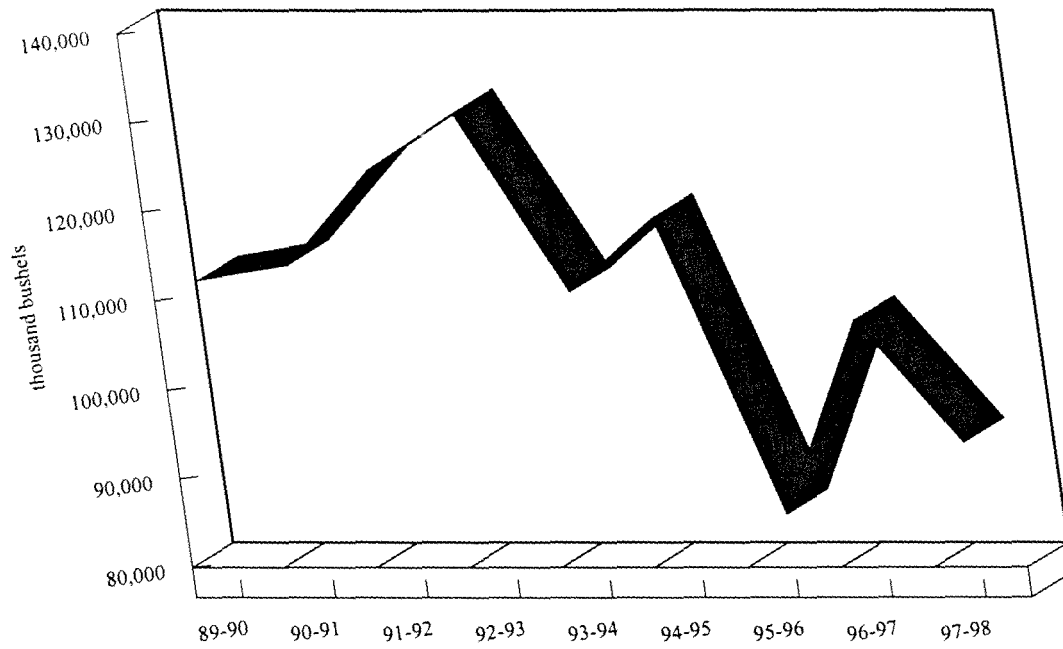
**NORTH DAKOTA BARLEY SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Duluth - Superior	Midland/ Southwest	Misc. Markets	TOTAL
1989-90	23,464 21%	22,893 20%	19,061 17%	46,838 42%	112,256 100%
1990-91	24,174 21%	14,200 12%	20,482 18%	55,190 48%	114,046 100%
1991-92	28,184 23%	19,398 16%	22,430 17%	54,740 44%	124,755 100%
1992-93	29,461 23%	20,799 16%	18,724 14%	62,153 47%	131,139 100%
1993-94	25,979 23%	16,345 15%	18,276 16%	50,487 45%	111,087 100%
1994-95	33,959 28%	14,514 12%	11,798 10%	59,979 50%	119,405 100%
1995-96	34,313 40%	2,644 3%	4,331 5%	44,676 52%	85,964 100%
1996-97	34,158 32%	5,514 5%	12,670 12%	55,479 51%	107,821 100%
1997-98	29,309 31%	9,213 10%	5,902 6%	49,562 53%	93,987 100%

Miscellaneous markets include shipments to Pacific Northwest destinations 12%, other Minnesota/Wisconsin destinations 10%, North Dakota destinations, and all other markets 12%.

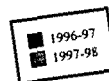
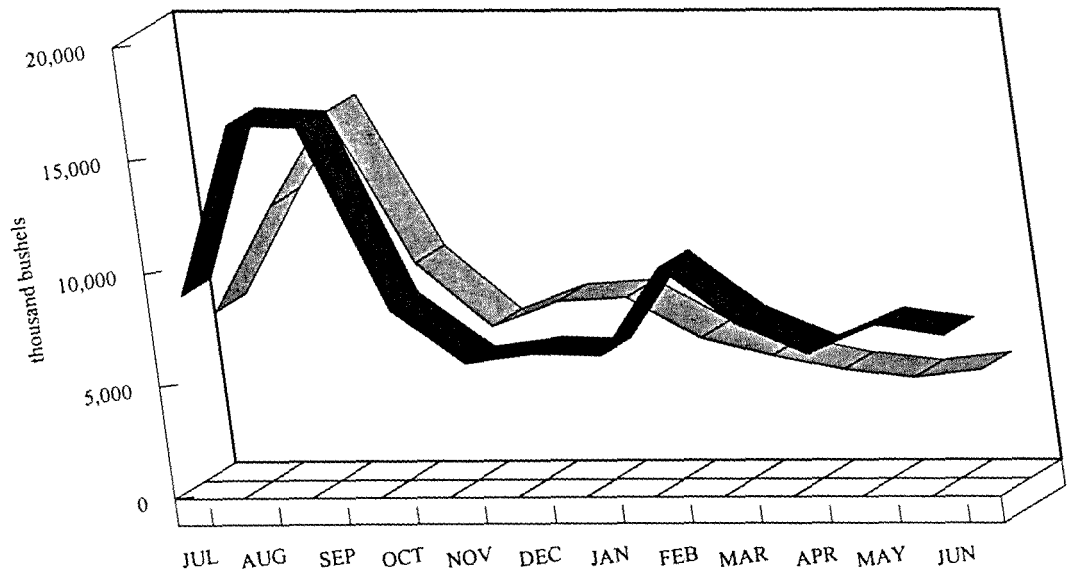
BARLEY SHIPMENTS

1989-90 to 1997-98



BARLEY SHIPMENTS

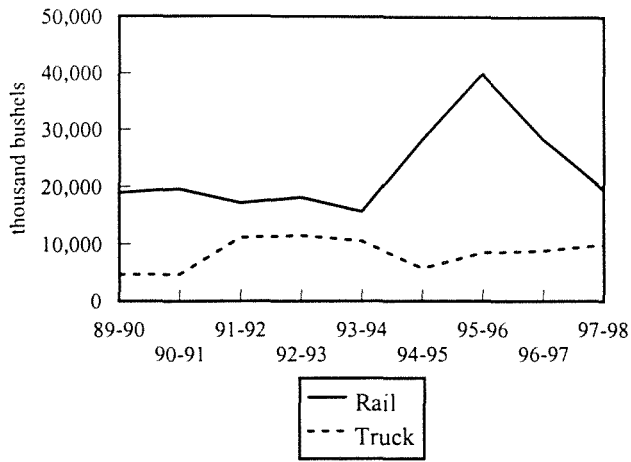
By Month, 1996-97 to 1997-98



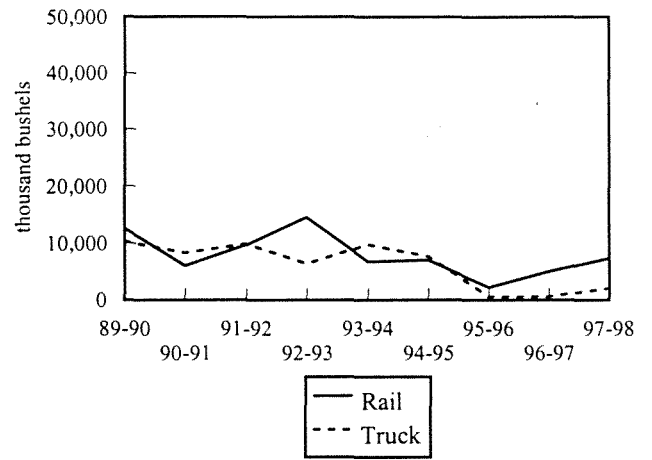
**NORTH DAKOTA BARLEY SHIPMENTS
BY RAIL, TRUCK AND DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul		Duluth - Superior		Midland/ Southwest		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1989-90	18,892 81%	4,572 19%	12,603 55%	10,290 45%	17,919 94%	1,142 6%	35,370 76%	11,468 24%	84,784 76%	27,472 24%
1990-91	19,533 81%	4,641 19%	5,969 42%	8,231 58%	19,678 96%	804 4%	45,005 82%	10,185 18%	90,185 79%	23,861 21%
1991-92	17,098 61%	11,085 39%	9,599 49%	9,798 51%	21,710 97%	719 3%	38,878 71%	15,860 29%	87,290 70%	37,465 30%
1992-93	18,070 61%	11,391 39%	14,468 70%	6,331 30%	10,472 97%	327 3%	50,921 73%	19,159 27%	93,931 72%	37,208 28%
1993-94	15,524 60%	10,454 40%	6,706 41%	9,639 59%	17,367 95%	909 5%	35,468 70%	15,019 30%	75,065 68%	36,021 32%
1994-95	28,285 83%	5,675 17%	6,980 48%	7,534 52%	10,897 92%	901 8%	40,670 68%	19,310 32%	86,831 72%	33,420 28%
1995-96	29,965 78%	8,403 22%	2,189 80%	559 20%	4,750 88%	635 12%	35,355 62%	21,733 38%	72,259 70%	31,330 30%
1996-97	28,387 76%	8,771 24%	4,954 90%	560 10%	11,680 92%	990 8%	35,653 50%	36,010 50%	80,674 64%	46,331 36%
1997-98	19,513 67%	9,796 33%	7,207 78%	2,006 22%	5,154 87%	748 13%	29,023 59%	20,539 41%	60,898 65%	33,089 35%

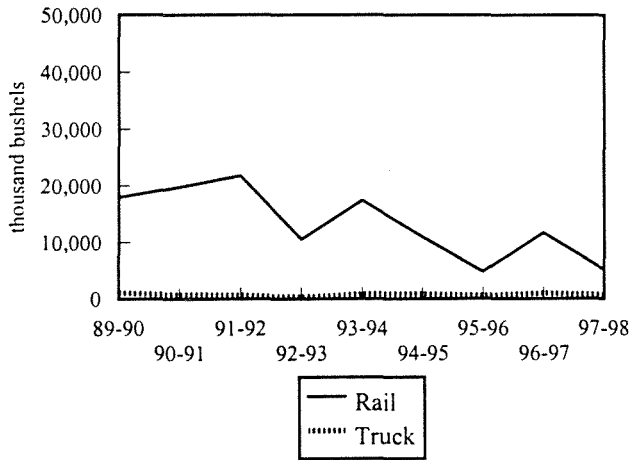
BARLEY TO MINNEAPOLIS
1989-90 to 1997-98



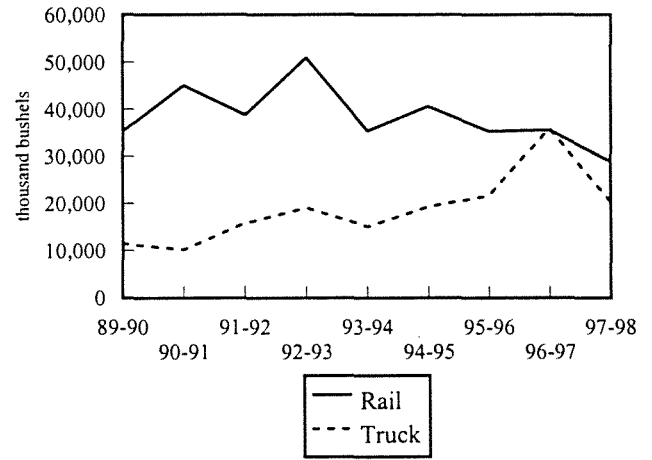
BARLEY TO DULUTH-SUPERIOR
1989-90 to 1997-98



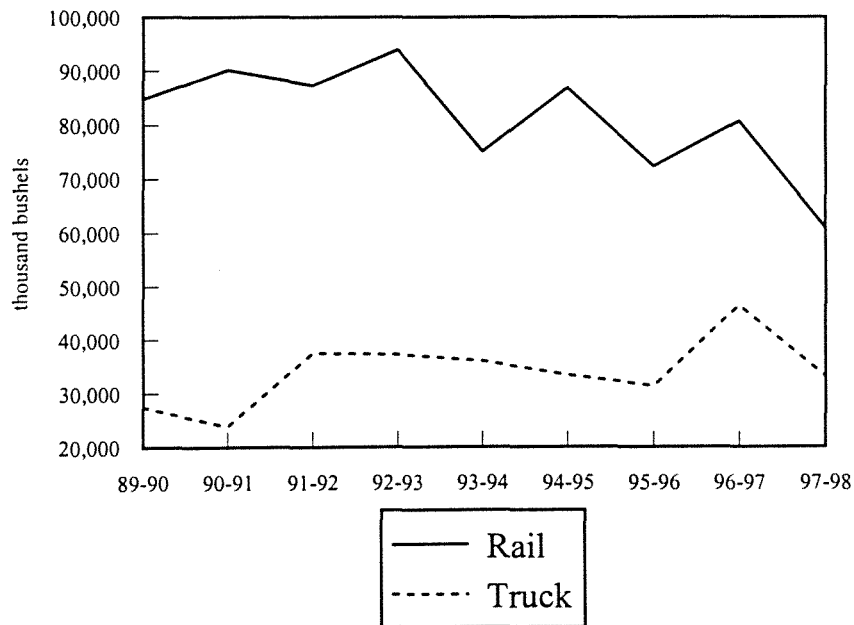
BARLEY TO MIDLAND/SOUTHWEST
1989-90 to 1997-98



BARLEY TO MISCELLANEOUS MARKETS
1989-90 to 1997-98

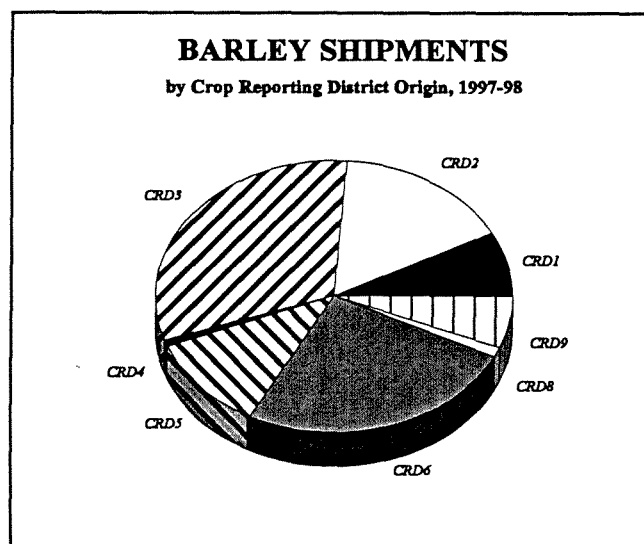


BARLEY SHIPMENTS
1989-90 to 1997-98



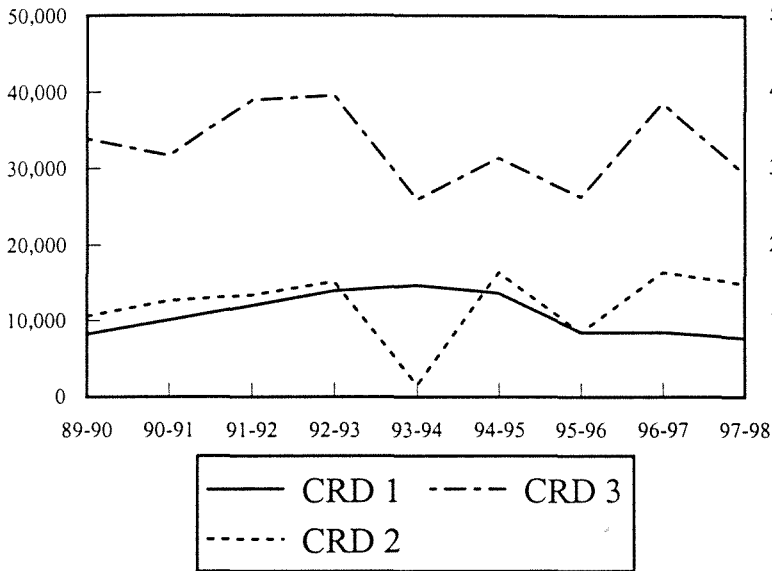
**NORTH DAKOTA BARLEY SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	8,234 7%	10,645 10%	33,912 30%	419 0%	7,755 7%	40,160 36%	798 1%	123 0%	10,210 9%	112,256 100%
1990-91	10,057 9%	12,675 11%	31,650 28%	756 1%	7,936 7%	39,682 35%	117 0%	187 0%	10,986 10%	114,046 100%
1991-92	12,025 10%	13,402 11%	38,945 31%	1,088 1%	10,569 8%	37,116 30%	794 1%	531 0%	10,281 8%	124,755 100%
1992-93	13,966 11%	15,193 12%	39,522 30%	1,762 1%	9,106 7%	36,618 28%	883 1%	1,084 1%	13,000 10%	131,138 100%
1993-94	14,657 13%	14,888 13%	25,960 23%	1,308 1%	11,144 10%	27,022 24%	854 0%	1,033 0%	14,221 13%	111,087 100%
1994-95	13,695 11%	16,394 14%	31,422 26%	2,400 2%	12,394 10%	34,056 28%	846 1%	1,064 1%	7,979 7%	120,251 100%
1995-96	8,467 10%	8,404 10%	26,315 31%	1,656 2%	9,877 11%	24,639 29%	517 0%	599 0%	5,490 6%	85,964 100%
1996-97	8,457 8%	16,436 15%	38,523 36%	1,178 1%	10,067 9%	27,443 25%	164 0%	139 0%	5,414 5%	107,821 100%
1997-98	7,719 8%	14,852 16%	29,362 31%	1,068 1%	10,354 11%	24,580 26%	18 0%	247 1%	5,787 6%	93,987 100%

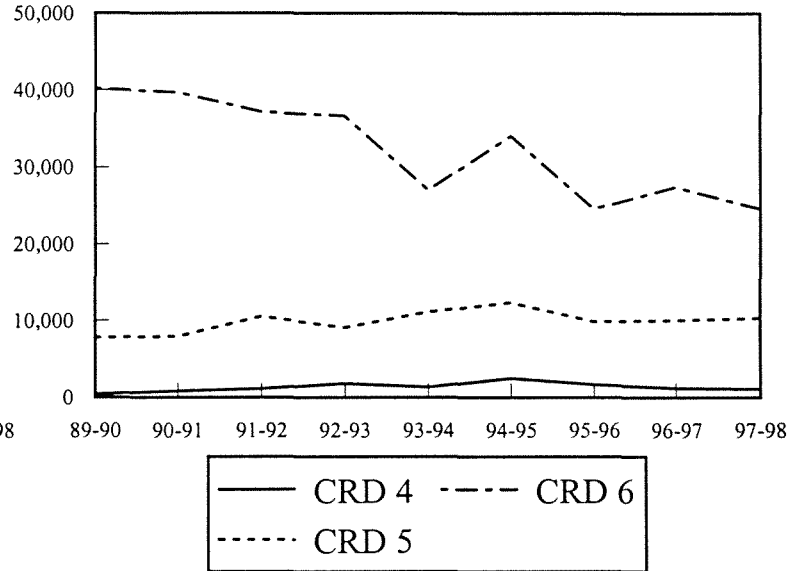


BARLEY SHIPMENTS BY CROP REPORTING DISTRICT

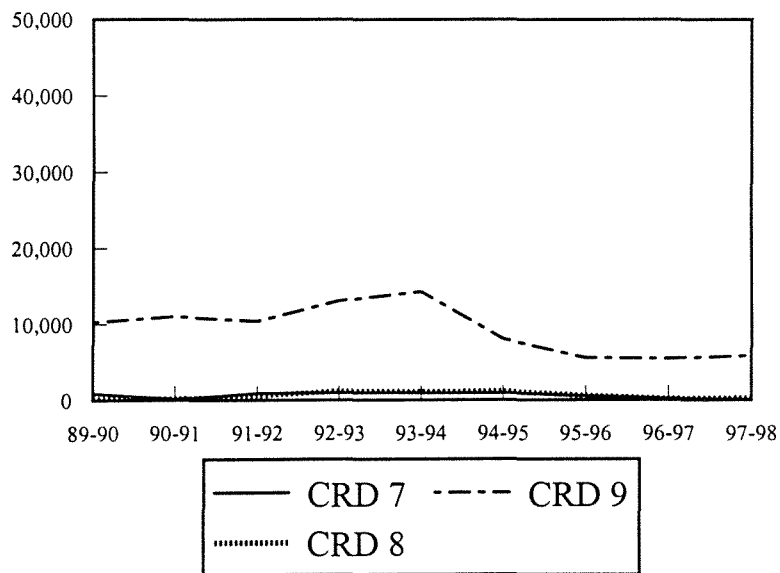
NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***SUNFLOWER
SHIPMENTS***

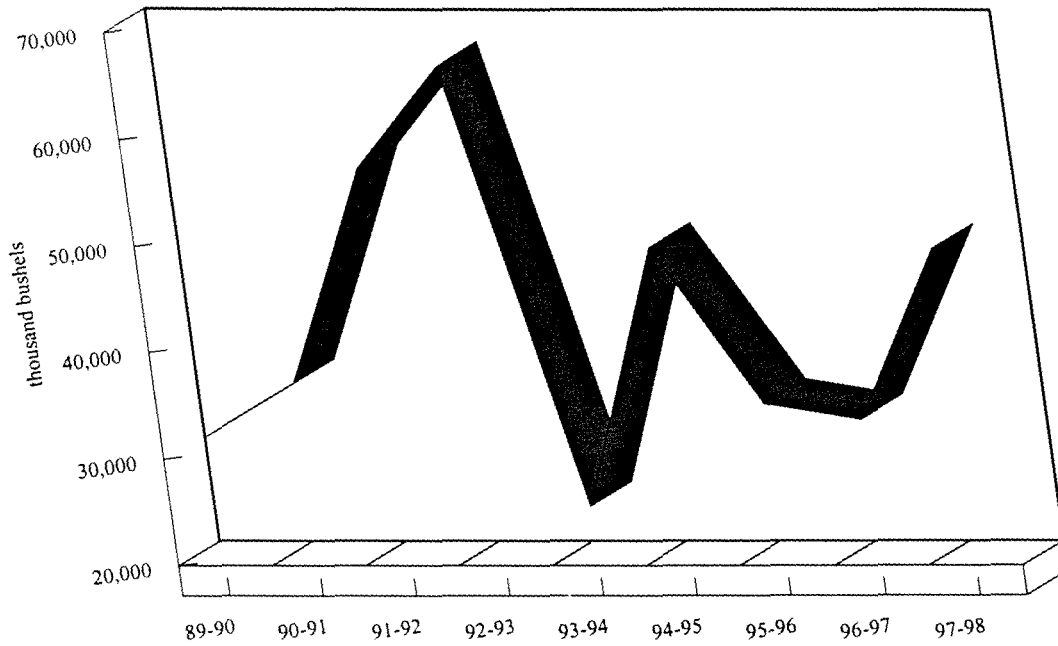
**NORTH DAKOTA SUNFLOWER SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Duluth - Superior	North Dakota	Misc. Markets	TOTAL
1989-90	2,219 7%	433 1%	20,964 65%	8,558 27%	32,174 100%
1990-91	4,264 11%	716 2%	20,866 56%	11,240 30%	37,086 100%
1991-92	4,050 7%	1,157 2%	33,428 58%	18,720 33%	57,364 100%
1992-93	4,367 7%	845 1%	47,059 70%	14,964 22%	66,965 100%
1993-94	2,091 8%	38 0%	16,721 65%	6,750 26%	25,600 100%
1994-95	2,619 5%	2,774 6%	32,725 66%	10,668 22%	49,921 100%
1995-96	1,729 5%	2,418 7%	24,119 68%	7,000 20%	35,266 100%
1996-97	1,553 5%	108 0%	27,102 80%	4,994 15%	33,757 100%
1997-98	2,243 4%	3,179 6%	36,634 74%	7,730 16%	49,786 100%

Miscellaneous markets for sunflower in 1997-98 include Other Minnesota and Wisconsin destinations 7%, Midland/Southwest markets 1%, Pacific Northwest destinations 1%, and all other markets 6%.

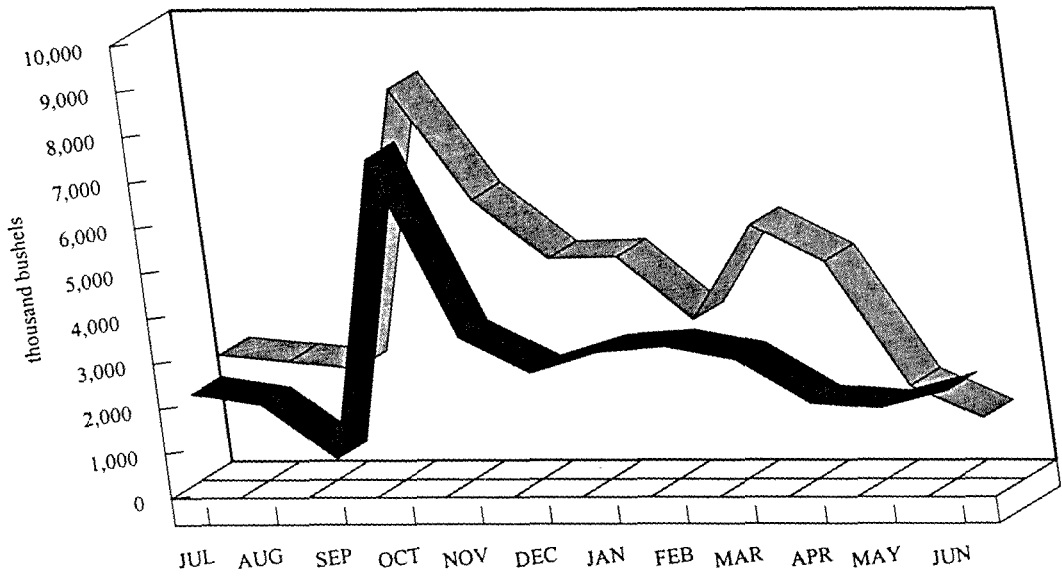
SUNFLOWER SHIPMENTS

1989-90 to 1997-98



SUNFLOWER SHIPMENTS

By Month, 1996-97 to 1997-98

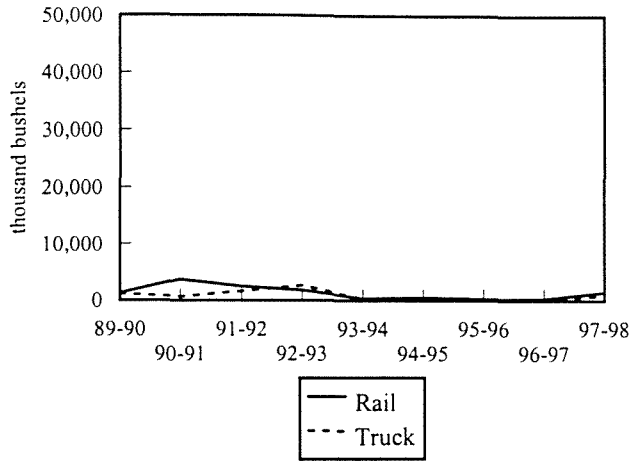


■ 1996-97
■ 1997-98

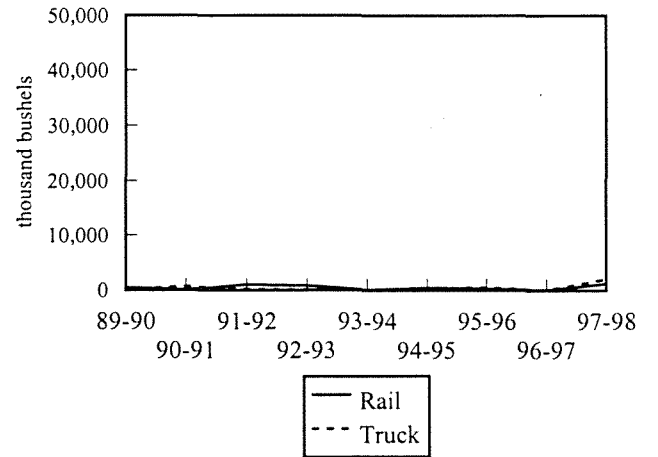
**NORTH DAKOTA SUNFLOWER SHIPMENTS
BY RAIL, TRUCK AND DESTINATION**
thousand bu.

YEAR	MINNEAPOLIS - ST. PAUL		DULUTH - SUPERIOR		NORTH DAKOTA		MISC. MARKETS		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Trucks
1989-90	1,159 52%	1,060 48%	420 97%	13 3%	4,750 23%	16,214 77%	2,041 24%	6,517 76%	8,370 26%	23,804 74%
1990-91	3,653 86%	610 14%	0 0%	716 100%	4,875 23%	15,991 77%	4,843 43%	6,398 57%	13,371 36%	23,715 64%
1991-92	2,464 61%	1,582 39%	1,010 87%	146 13%	4,421 13%	29,007 87%	8,648 46%	10,065 54%	16,553 29%	40,810 71%
1992-93	1,746 40%	2,621 60%	803 95%	42 5%	3,918 8%	43,141 92%	3,215 21%	11,478 89%	9,682 14%	57,283 86%
1993-94	302 52%	283 48%	0 0%	10 100%	283 6%	4,398 94%	304 14%	1,860 86%	3,125 12%	22,891 88%
1994-95	481 66%	252 34%	443 57%	334 43%	859 9%	8,305 91%	1,120 34%	2,183 64%	2,903 21%	11,074 79%
1995-96	268 52%	243 48%	278 35%	507 65%	205 3%	7,883 97%	395 16%	2,074 84%	1,146 10%	10,707 90%
1996-97	265 61%	170 39%	11 35%	20 65%	275 4%	7,314 96%	257 15%	1,472 85%	808 8%	8,976 92%
1997-98	1,379 61%	865 39%	1,158 36%	2,021 64%	1,587 4%	35,047 96%	1,572 20%	6,158 80%	5,696 11%	44,090 89%

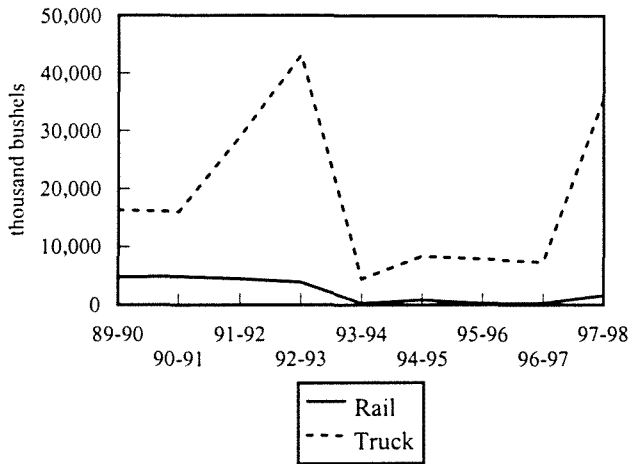
SUNFLOWER TO MINNEAPOLIS
1989-90 to 1997-98



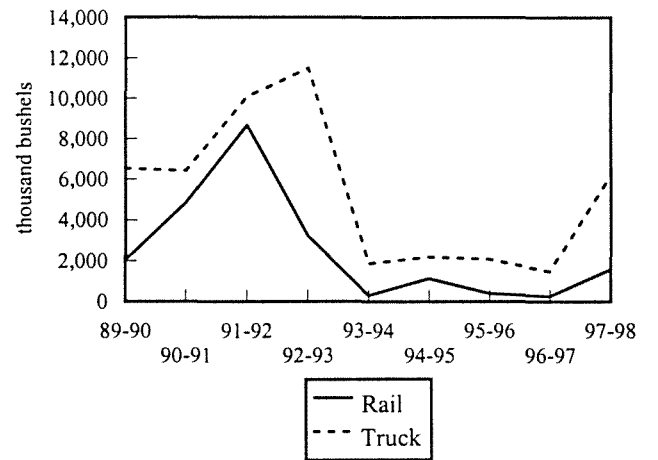
SUNFLOWER TO DULUTH-SUPERIOR
1989-90 to 1997-98



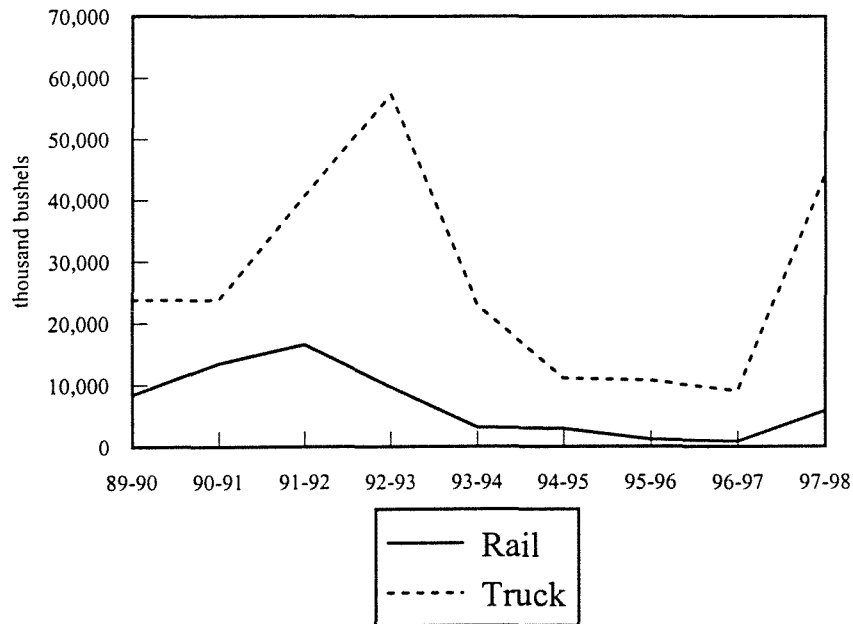
SUNFLOWER TO NORTH DAKOTA
1989-90 to 1997-98



SUNFLOWER TO MISCELLANEOUS MARKETS
1989-90 to 1997-98

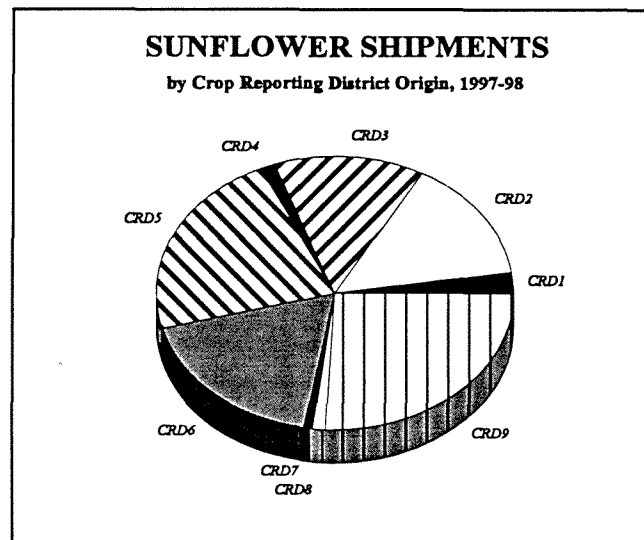


SUNFLOWER SHIPMENTS
1989-90 to 1997-98



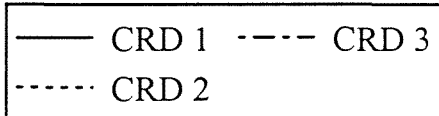
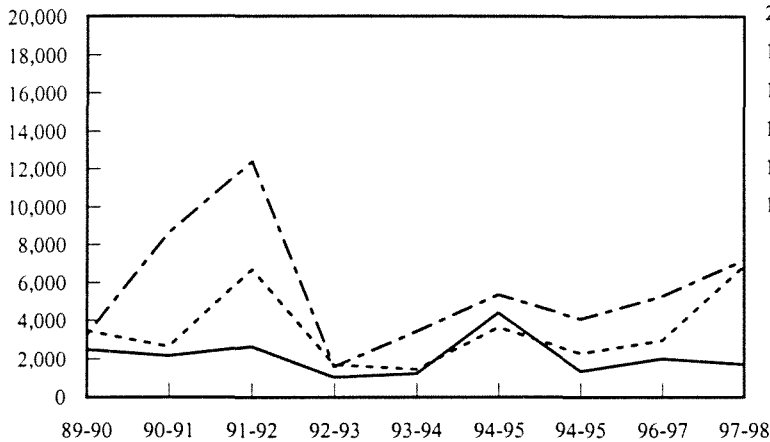
**NORTH DAKOTA SUNFLOWER SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	2,487 8%	3,466 11%	3,258 10%	810 3%	6,560 20%	7,460 23%	308 1%	613 2%	7,212 22%	32,174 100%
1990-91	2,146 6%	2,648 7%	8,634 23%	1,357 4%	6,893 19%	7,900 21%	118 0%	291 1%	7,099 19%	37,086 100%
1991-92	2,635 5%	6,689 12%	12,414 22%	385 1%	13,507 23%	11,307 19%	78 0%	185 0%	10,142 18%	57,364 100%
1992-93	1,033 6%	1,681 9%	1,571 8%	520 2%	5,216 28%	5,191 28%	29 0%	53 0%	3,451 18%	18,750 100%
1993-94	1,223 5%	1,451 5%	3,412 13%	81 0%	4,479 17%	8,126 31%	59 0%	100 0%	7,650 29%	26,581 100%
1994-95	4,413 9%	3,641 7%	5,358 11%	551 1%	7,664 15%	11,381 23%	45 0%	436 1%	16,430 33%	49,921 100%
1995-96	1,342 4%	2,279 6%	4,062 11%	440 1%	5,209 14%	10,610 29%	54 0%	441 1%	11,963 33%	36,400 100%
1996-97	1,999 6%	2,949 8%	5,255 15%	203 1%	7,461 21%	6,842 20%	82 0%	85 0%	10,059 29%	34,935 100%
1997-98	1,699 3%	6,843 14%	7,185 14%	279 1%	11,015 22%	9,115 18%	202 1%	665 1%	12,783 26%	49,786 100%

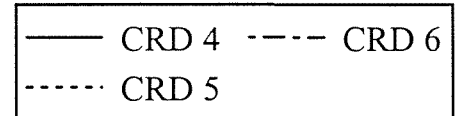
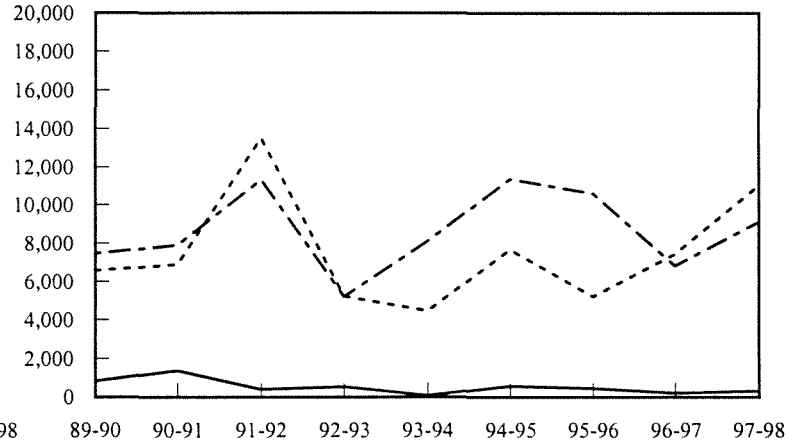


SUNFLOWER SHIPMENTS BY CROP REPORTING DISTRICT

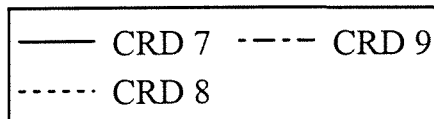
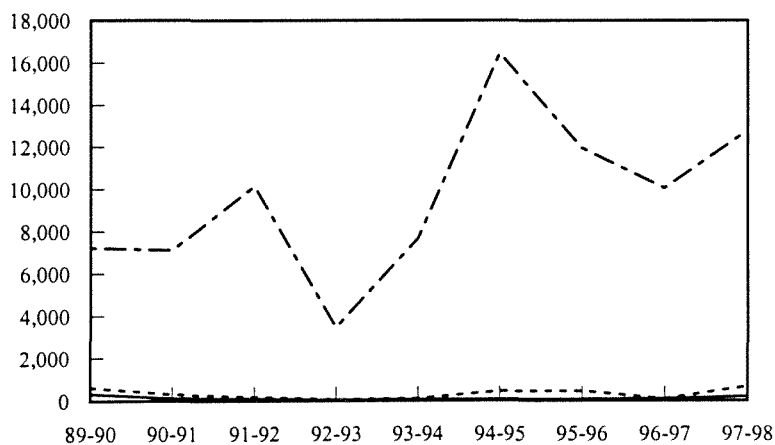
NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***OATS
SHIPMENTS***

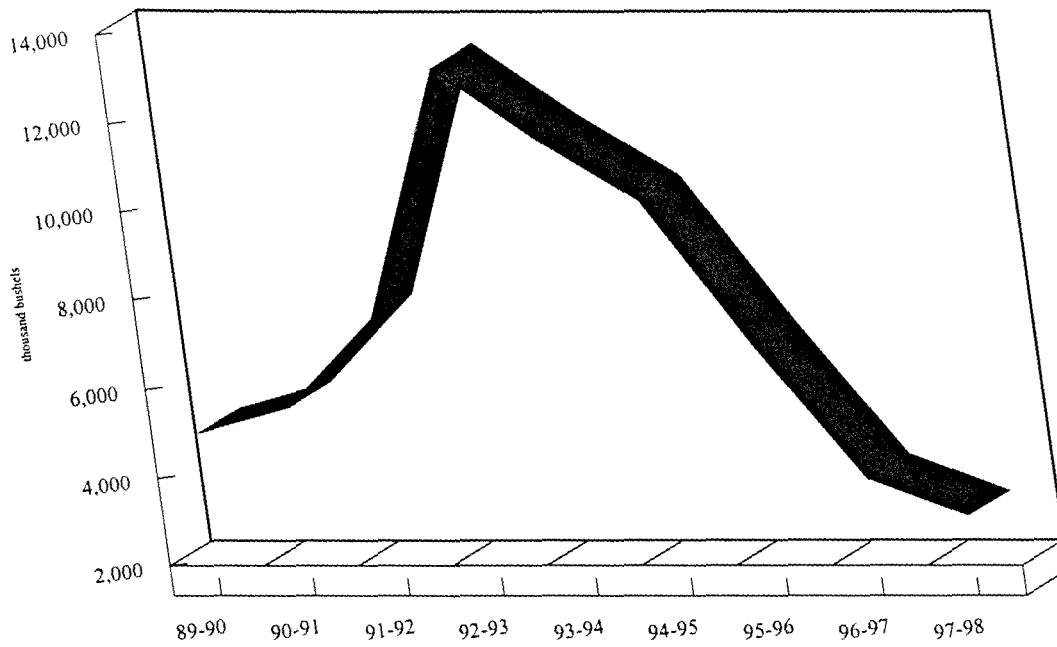
**NORTH DAKOTA OATS SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Duluth - Superior	West	Misc. Markets	TOTAL
1989-90	3,179 63%	36 1%	12 0%	1,788 36%	5,015 100%
1990-91	2,496 45%	45 1%	316 6%	2,744 49%	5,601 100%
1991-92	4,518 59%	146 2%	181 2%	2,754 37%	7,601 100%
1992-93	5,468 41%	284 0%	270 2%	7,505 57%	13,272 100%
1993-94	6,494 56%	206 2%	66 0%	4,909 42%	11,675 100%
1994-95	5,848 57%	105 1%	67 1%	4,242 42%	10,262 100%
1995-96	3,970 57%	189 3%	28 0%	2,779 40%	6,966 100%
1996-97	1,822 46%	83 2%	6 0%	2,056 52%	3,967 100%
1997-98	1,503 48%	102 3%	92 3%	1,425 46%	3,122 100%

Miscellaneous markets include shipments to North Dakota destinations 3%, Midland/Southwest destinations 21%, other Minnesota/Wisconsin destinations 3%, and all other markets 19%.

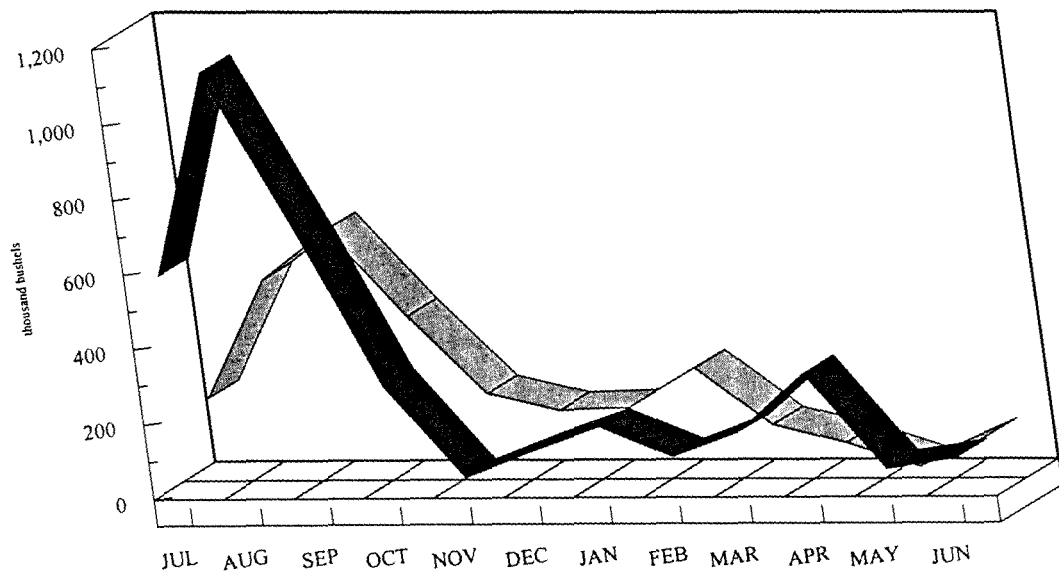
OATS SHIPMENTS

1989-90 to 1997-98



OATS SHIPMENTS

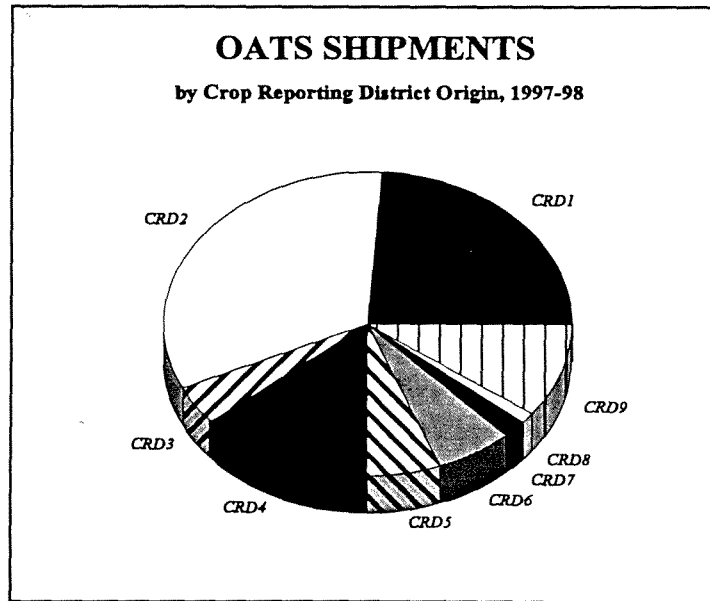
by Month, 1996-97 to 1997-98



■ 1996-97
 ■ 1997-98

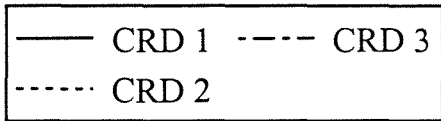
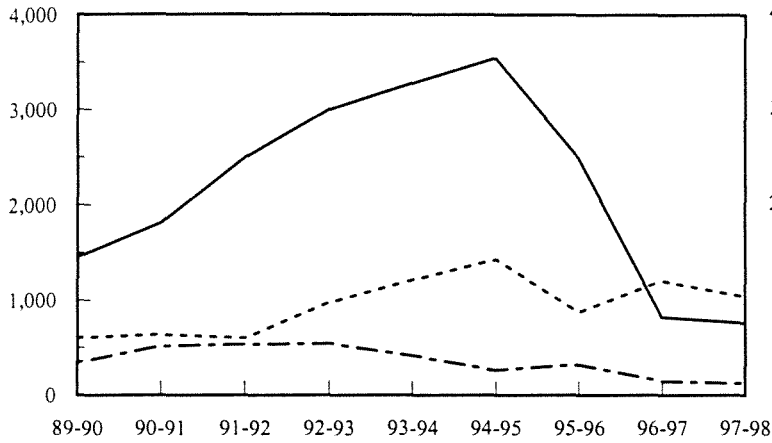
**NORTH DAKOTA OATS SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	1,453 29%	600 12%	342 7%	330 7%	409 8%	794 16%	75 1%	240 5%	772 15%	5,015 100%
1990-91	1,809 32%	636 11%	515 9%	605 11%	386 7%	911 16%	52 1%	70 1%	617 11%	5,601 100%
1991-92	2,492 33%	596 8%	532 7%	848 11%	499 7%	763 10%	73 1%	322 4%	1,472 19%	7,601 100%
1992-93	2,997 23%	971 7%	539 4%	1,308 10%	3,209 24%	948 7%	289 2%	1,127 9%	1,879 14%	13,271 100%
1993-94	3,273 28%	1,211 10%	409 4%	1,646 14%	1,539 13%	455 4%	337 3%	1,182 10%	1,624 14%	11,676 100%
1994-95	3,544 35%	1,426 14%	260 3%	1,540 15%	968 9%	79 1%	276 3%	974 10%	1,195 12%	10,262 100%
1995-96	2,488 36%	871 13%	318 5%	1,046 15%	465 7%	66 0%	335 5%	602 9%	777 11%	6,968 100%
1996-97	855 22%	1,205 30%	144 4%	599 15%	318 8%	63 2%	106 3%	179 5%	499 13%	3,967 100%
1997-98	755 24%	1,036 33%	120 4%	447 14%	178 6%	180 6%	62 2%	20 1%	323 10%	3,122 100%

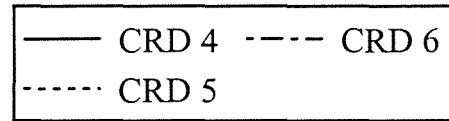
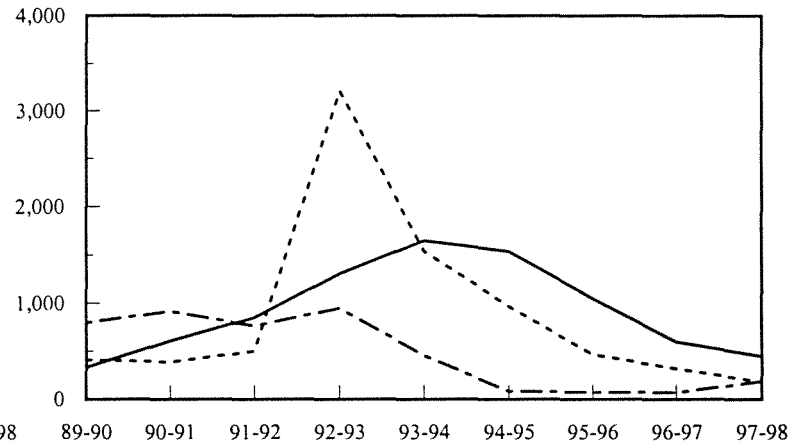


OATS SHIPMENTS BY CROP REPORTING DISTRICT

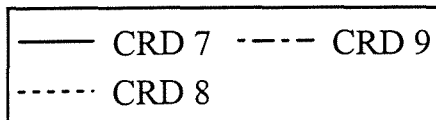
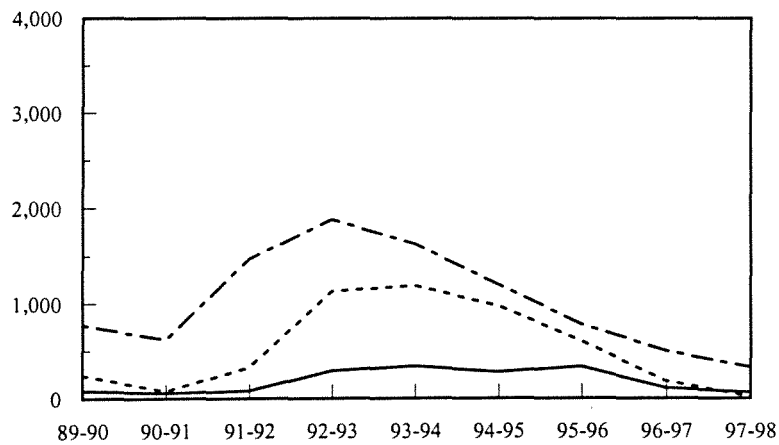
NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***SOYBEAN
SHIPMENTS***

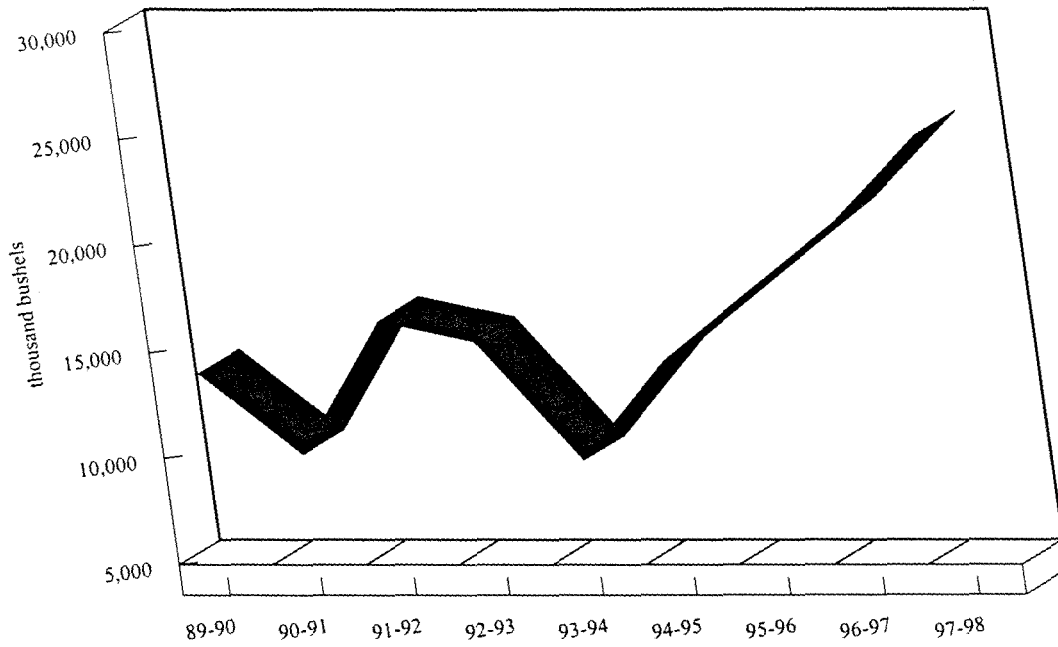
**NORTH DAKOTA SOYBEAN SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Duluth - Superior	West	Misc. Markets	TOTAL
1989-90	1,819 13%	1,379 10%	6,712 48%	4,105 29%	14,015 100%
1990-91	1,802 18%	1,268 12%	4,001 39%	3,114 31%	10,185 100%
1991-92	3,025 18%	510 3%	7,552 46%	5,374 33%	16,464 100%
1992-93	3,594 23%	354 2%	8,396 54%	3,184 21%	15,528 100%
1993-94	3,198 32%	621 6%	3,669 37%	2,411 25%	9,899 100%
1994-95	2,825 19%	3,110 21%	6,806 47%	1,853 13%	14,594 100%
1995-96	1,588 9%	3,596 20%	9,914 55%	2,768 15%	17,866 100%
1996-97	1,607 8%	8,252 39%	5,809 28%	5,428 26%	21,096 100%
1997-98	4,520 18%	9,085 36%	4,751 19%	6,867 27%	25,223 100%

Miscellaneous markets include shipments to other Minnesota/Wisconsin destinations 3%, Midland/Southwest destinations 3%, and all other markets including North Dakota processors 9%.

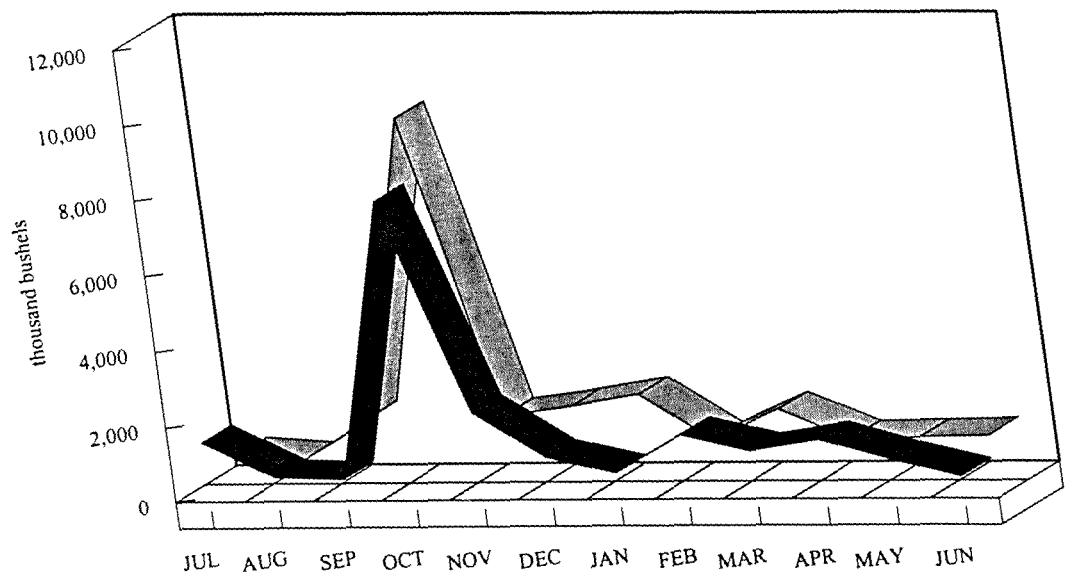
SOYBEAN SHIPMENTS

1989-90 to 1997-98



SOYBEAN SHIPMENTS

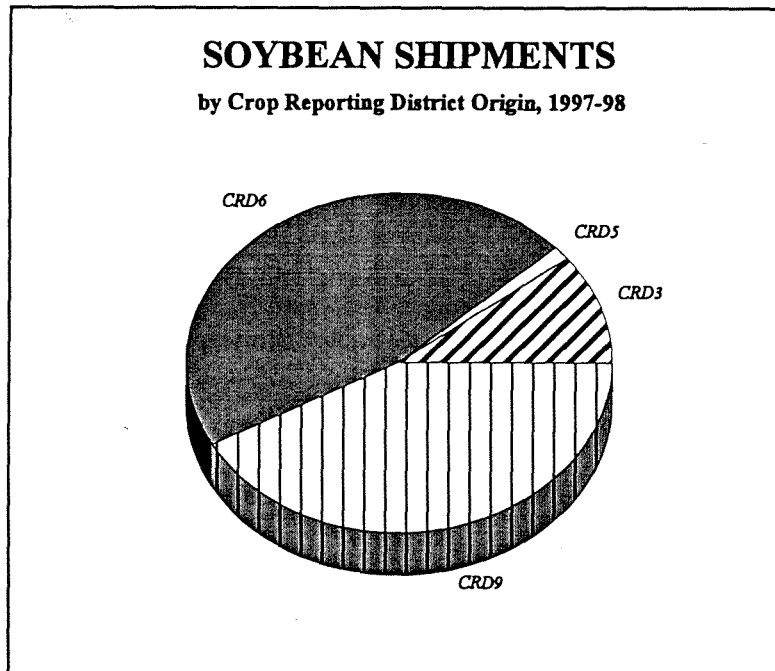
by Month, 1996-97 to 1997-98



■ 1996-97
 ■ 1997-98

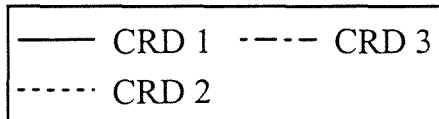
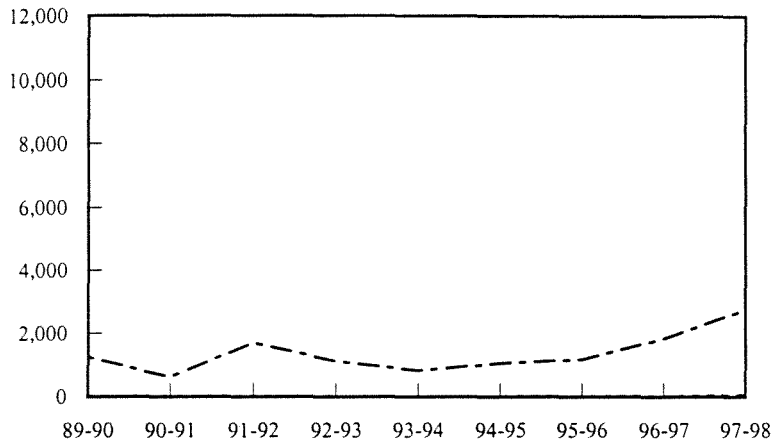
**NORTH DAKOTA SOYBEAN SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	0 0%	14 0%	1,251 9%	3 0%	77 1%	6,491 46%	4 0%	3 0%	6,172 44%	14,015 100%
1990-91	3 0%	6 0%	622 6%	29 0%	36 0%	5,369 53%	0 0%	122 1%	3,998 39%	10,185 100%
1991-92	0 0%	11 0%	1,696 10%	883 5%	78 0%	8,491 51%	220 1%	0 0%	6,184 37%	16,464 100%
1992-93	8 0%	4 0%	1,112 7%	8 0%	14 0%	7,900 51%	0 0%	3 0%	6,475 42%	15,527 100%
1993-94	4 0%	0 0%	827 8%	0 0%	22 0%	4,986 50%	0 0%	0 0%	4,059 41%	9,898 100%
1994-95	0 0%	5 0%	1,057 7%	0 0%	15 0%	7,818 54%	0 0%	0 0%	5,700 39%	14,594 100%
1995-96	1 0%	12 0%	1,175 7%	0 0%	63 0%	8,543 48%	0 0%	0 0%	8,071 45%	17,865 100%
1996-97	7 0%	5 0%	1,833 9%	1 0%	140 1%	11,105 53%	0 0%	0 0%	8,006 38%	21,097 100%
1997-98	0 0%	58 0%	2,736 11%	26 0%	247 1%	11,717 46%	3 0%	8 0%	10,429 42%	25,223 100%

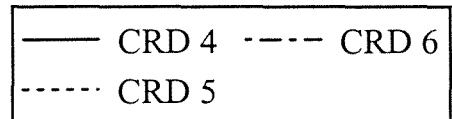
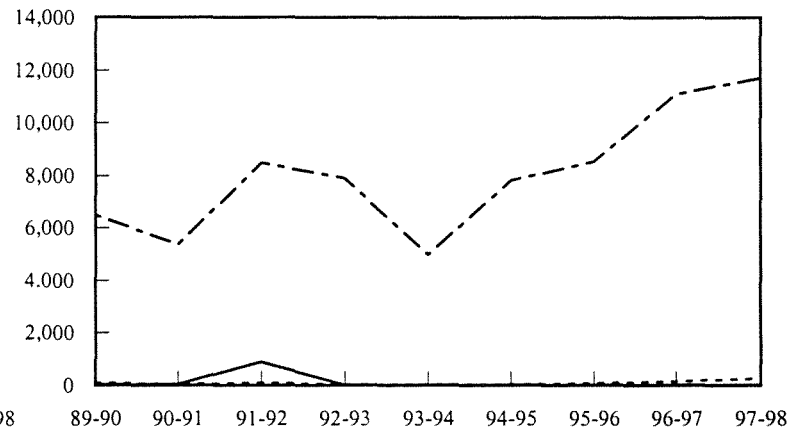


SOYBEAN SHIPMENTS BY CROP REPORTING DISTRICT

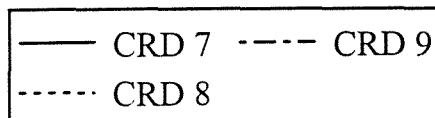
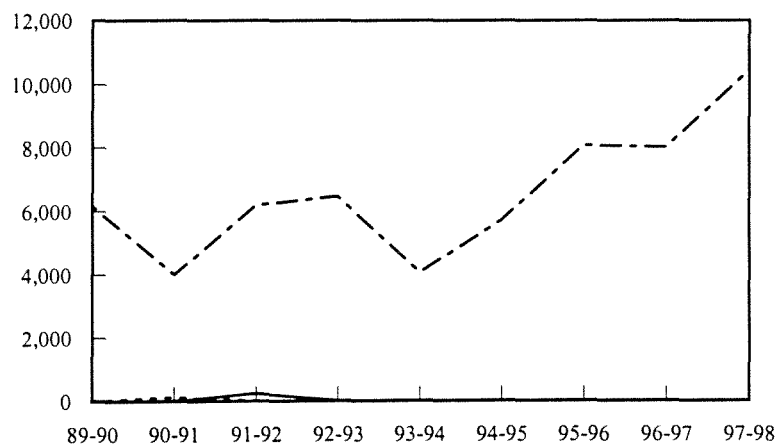
NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***FLAXSEED
SHIPMENTS***

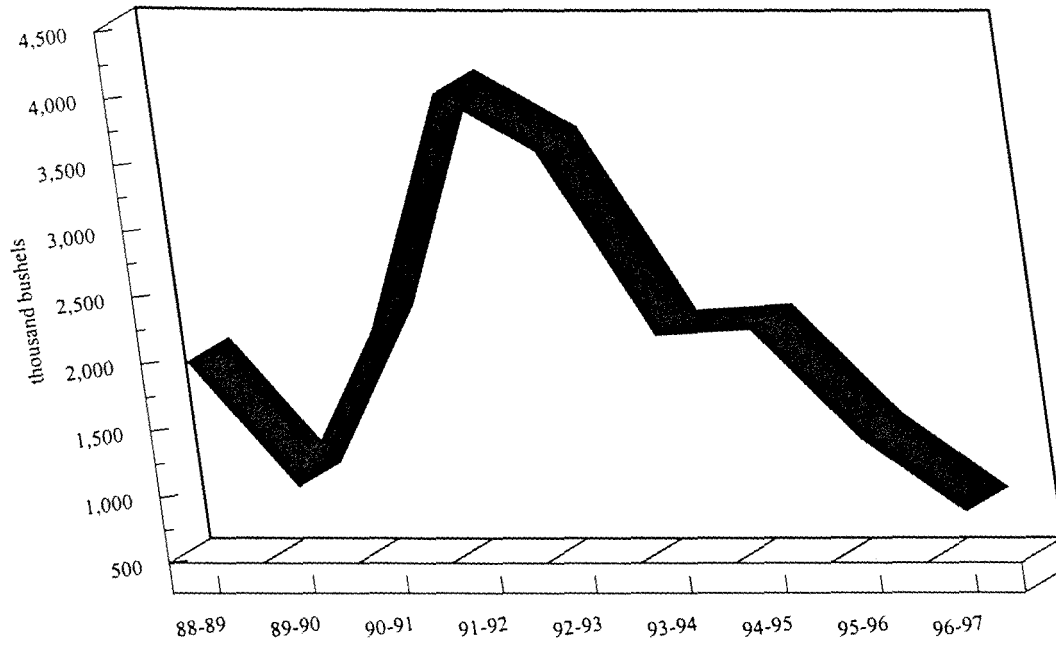
**NORTH DAKOTA FLAXSEED SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Other Minnesota - Wisconsin	North Dakota	Misc.	TOTAL
1988-89	214 11%	849 42%	650 32%	299 15%	2,013 100%
1989-90	209 19%	269 25%	425 39%	174 16%	1,077 100%
1990-91	422 19%	487 22%	1,068 47%	281 12%	2,258 100%
1991-92	1,141 28%	504 12%	1,750 43%	659 16%	4,058 100%
1992-93	469 13%	567 16%	1,501 41%	1,084 30%	3,621 100%
1993-94	771 35%	539 24%	687 31%	231 10%	2,228 100%
1994-95	513 23%	447 20%	923 41%	386 17%	2,270 100%
1995-96	354 24%	165 11%	628 43%	303 21%	1,450 100%
1996-97	175 20%	103 12%	458 51%	155 17%	891 100%

Miscellaneous markets include shipments to Duluth Superior destinations 1%, Midland/Southwest markets 5%, Pacific Northwest markets 8%, and all other markets 7%.

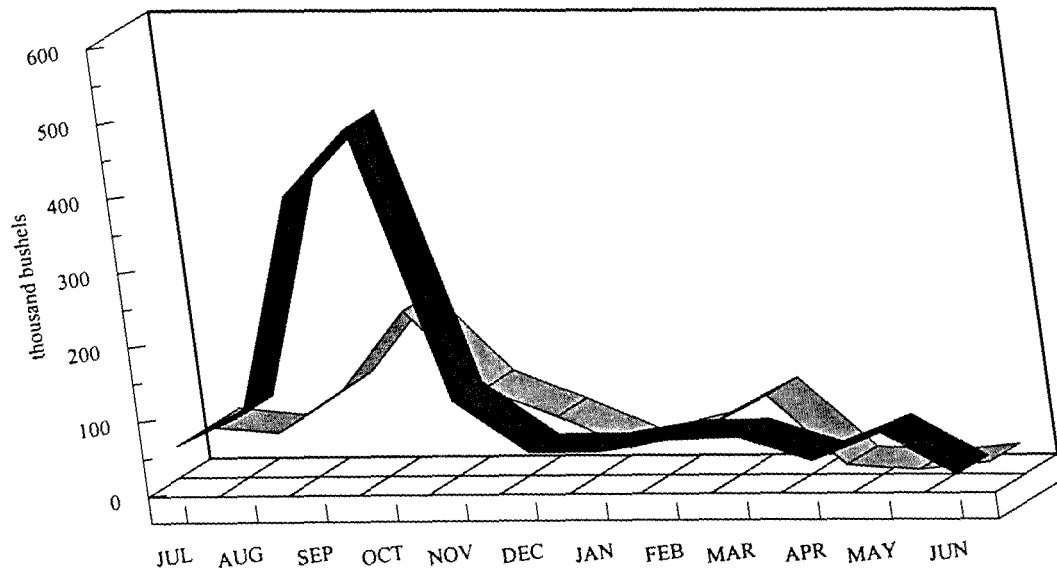
FLAX SHIPMENTS

1988-89 to 1996-97



FLAX SHIPMENTS

by Month, 1995-96 to 1996-97



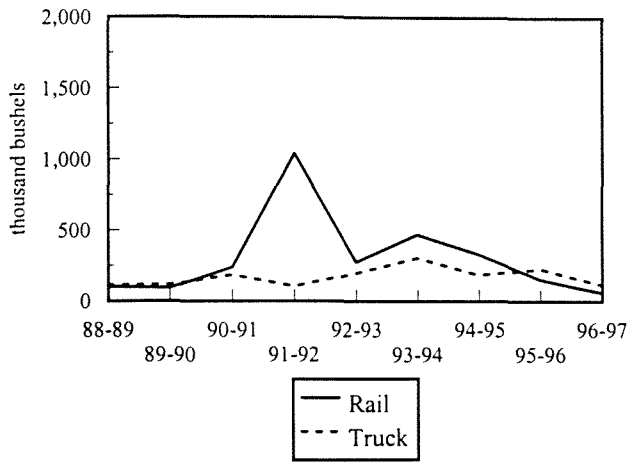
■ 1995-96
■ 1996-97

**NORTH DAKOTA FLAXSEED SHIPMENTS
BY RAIL, TRUCK AND DESTINATION**
thousand bu.

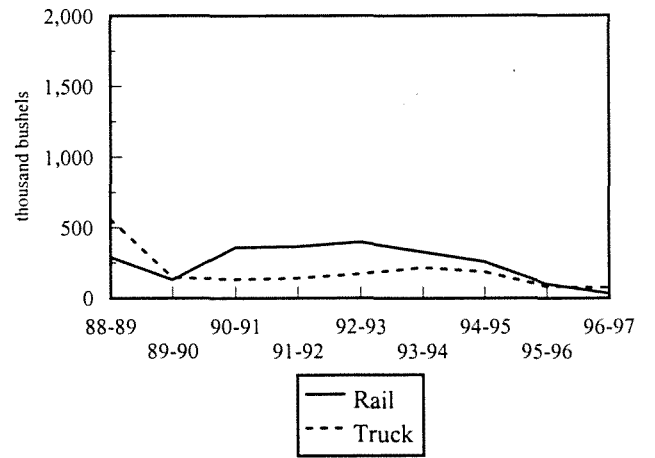
YEAR	Minneapolis- St. Paul		Other Minnesota - Wisconsin		North Dakota		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	101 47%	112 53%	288 34%	561 66%	44 7%	606 93%	125 42%	174 58%	559 28%	1,454 72%
1989-90	92 44%	116 56%	125 46%	144 54%	25 6%	400 94%	61 35%	113 65%	304 28%	773 72%
1990-91	238 56%	184 44%	358 74%	129 26%	117 11%	951 89%	145 52%	136 48%	858 38%	1,400 62%
1991-92	1,039 91%	102 9%	364 72%	140 28%	160 9%	1,590 91%	499 76%	158 24%	2,065 51%	1,993 49%
1992-93	275 59%	195 41%	398 70%	169 30%	81 5%	1,420 95%	819 75%	266 25%	1,572 43%	2,050 57%
1993-94	466 60%	305 40%	327 61%	213 39%	19 3%	668 97%	77 33%	153 67%	889 40%	1,339 60%
1994-95	330 64%	183 36%	259 58%	187 42%	122 13%	801 87%	155 40%	231 60%	867 38%	1,402 62%
1995-96	152 40%	225 60%	98 55%	80 45%	49 7%	668 93%	237 70%	100 30%	536 33%	1,073 67%
1996-97	59 34%	115 66%	31 30%	72 70%	47 10%	411 90%	90 58%	66 42%	227 25%	664 75%

Miscellaneous markets include shipments to Duluth-Superior, Midland/Southwest and Pacific Northwest destinations.

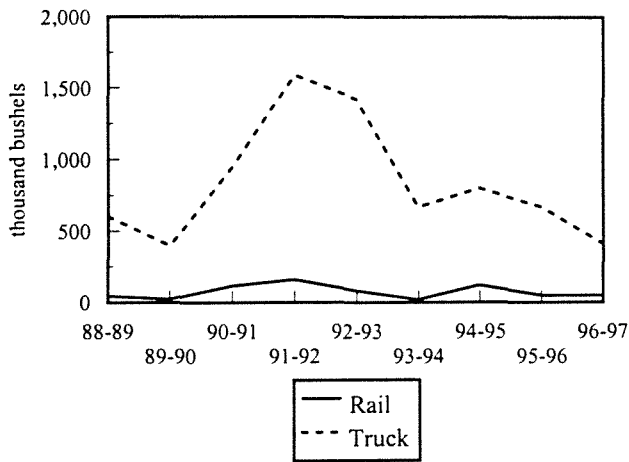
FLAX TO MINNEAPOLIS
1988-89 to 1996-97



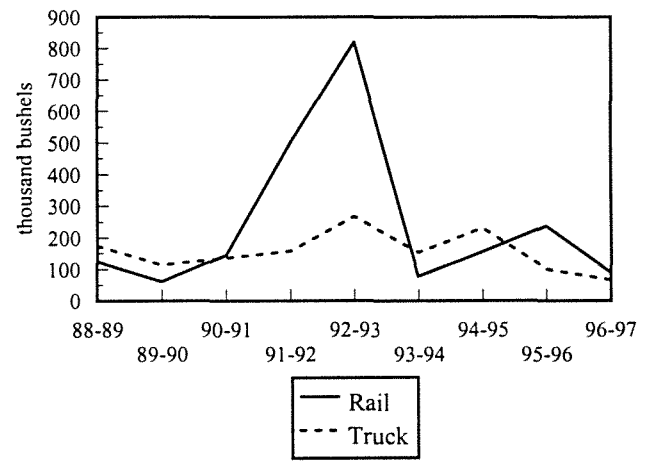
FLAX TO OTHER MINN/WISC
1988-89 to 1996-97



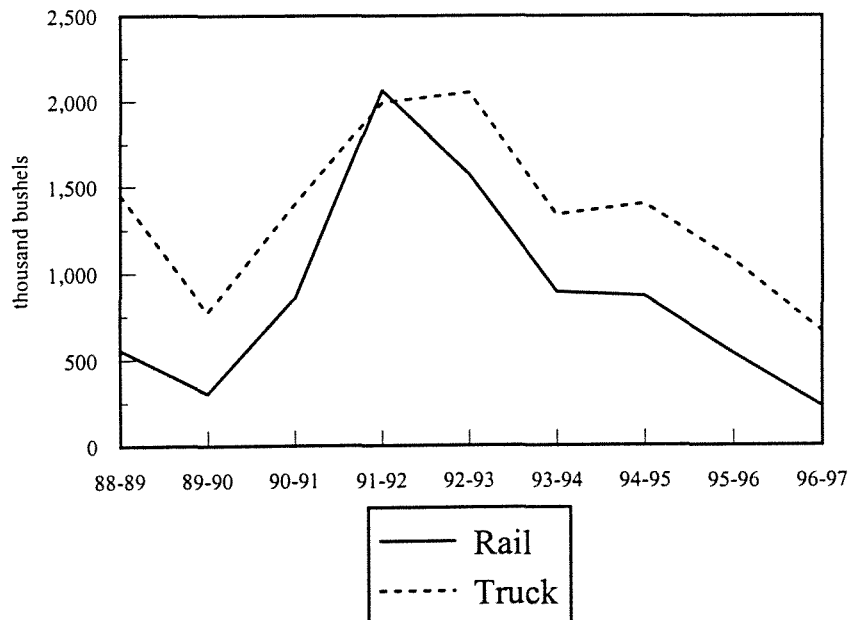
FLAX TO NORTH DAKOTA
1988-89 to 1996-97



FLAX TO MISCELLANEOUS MARKETS
1988-89 to 1996-97

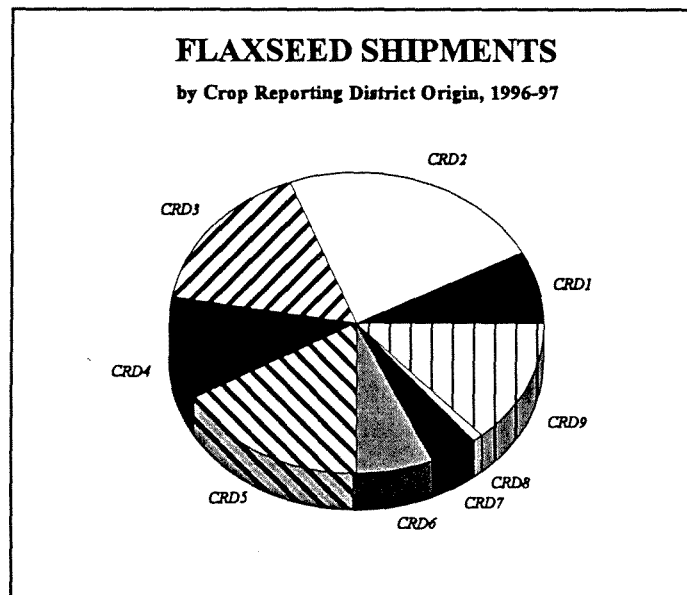


FLAX SHIPMENTS
1988-89 to 1996-97



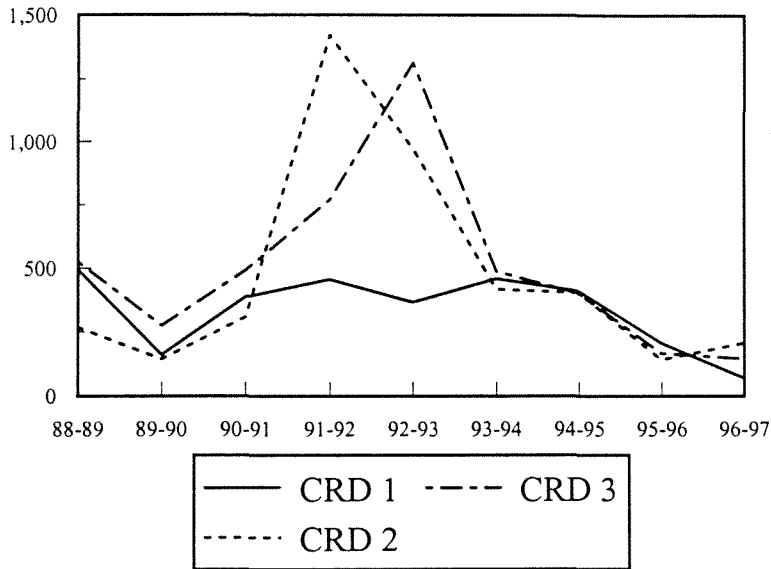
**NORTH DAKOTA FLAXSEED SHIPMENTS
BY CROP REPORTING DISTRICT ORIGIN**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	494 25%	268 13%	525 26%	169 8%	187 9%	112 6%	19 1%	67 3%	168 98%	2,009 100%
1989-90	161 15%	145 13%	276 26%	72 7%	146 13%	84 9%	9 1%	30 3%	154 14%	1,077 100%
1990-91	388 17%	308 14%	490 22%	102 5%	523 23%	241 11%	4 0%	16 1%	186 8%	2,258 100%
1991-92	456 11%	1,421 35%	769 19%	173 4%	423 10%	413 10%	13 0%	5 0%	381 9%	4,058 100%
1992-93	367 10%	974 27%	1,312 36%	140 4%	313 9%	200 6%	9 0%	25 1%	278 8%	3,621 100%
1993-94	459 21%	418 19%	486 22%	182 1%	326 15%	118 5%	5 0%	20 0%	213 10%	2,200 100%
1994-95	411 18%	405 18%	402 17%	234 10%	363 16%	61 3%	13 1%	33 1%	347 15%	2,270 100%
1995-96	206 14%	142 10%	166 11%	149 10%	268 18%	136 9%	84 6%	37 3%	261 18%	1,449 100%
1996-97	69 8%	206 23%	146 16%	95 11%	140 16%	64 7%	38 4%	13 1%	119 13%	890 100%

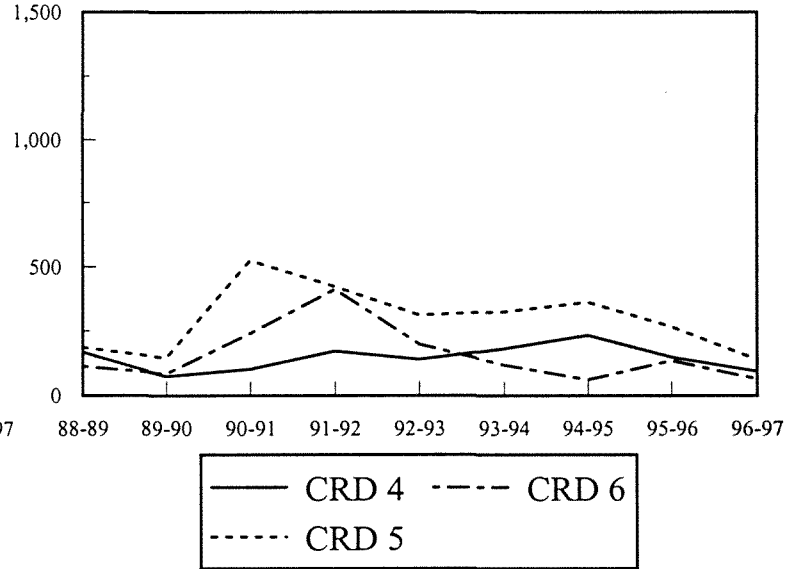


FLAX SHIPMENTS BY CROP REPORTING DISTRICT

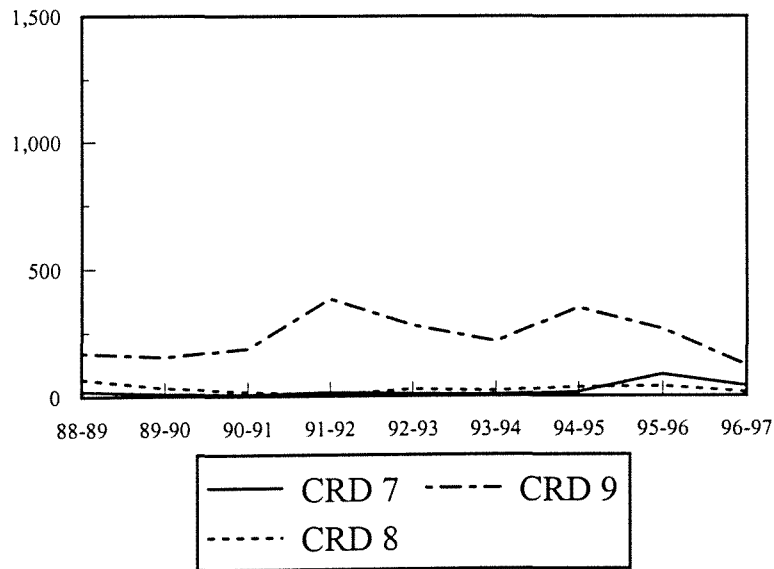
BY NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



BY CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***CORN
SHIPMENTS***

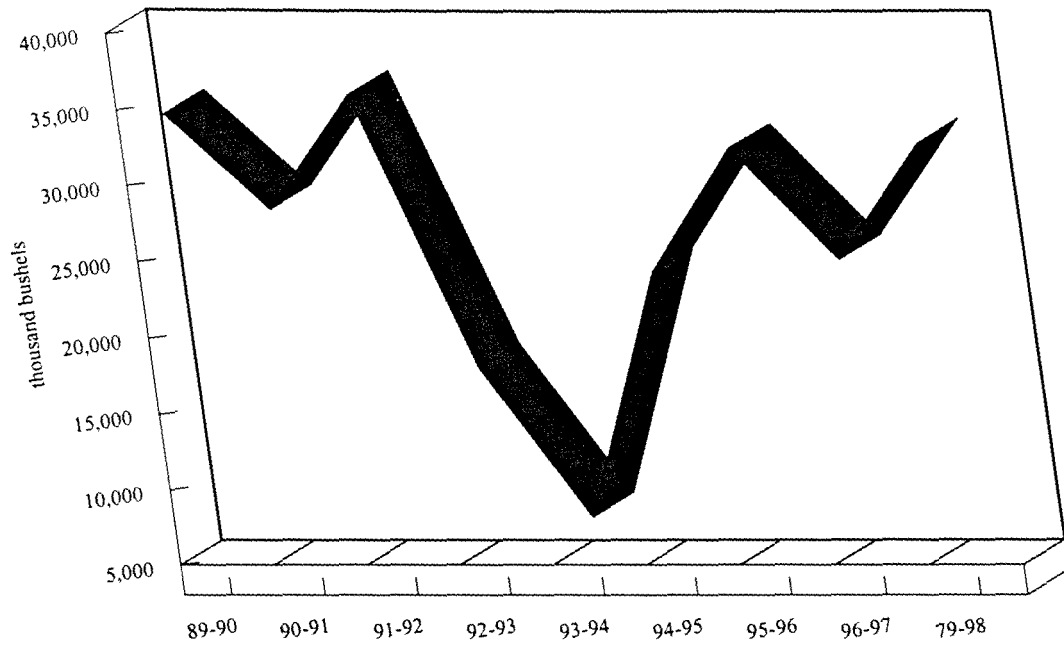
**NORTH DAKOTA CORN SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Duluth - Superior	West	Misc. Markets	TOTAL
1989-90	900 3%	358 1%	26,133 75%	7,374 21%	34,764 100%
1990-91	944 3%	710 2%	19,590 69%	7,190 25%	28,434 100%
1991-92	1,556 4%	665 2%	25,034 69%	8,826 24%	36,084 100%
1992-93	807 5%	0 0%	8,903 49%	8,344 46%	18,054 100%
1993-94	196 2%	75 0%	1,465 18%	6,429 79%	8,165 100%
1994-95	1,150 5%	114 0%	13,703 56%	9,431 39%	24,398 100%
1995-96	2,184 7%	18 0%	23,779 73%	6,563 20%	32,544 100%
1996-97	2,253 9%	514 2%	13,396 53%	9,024 36%	25,187 100%
1997-98	3,304 10%	1,074 3%	12,851 39%	15,613 48%	32,842 100%

Miscellaneous markets include shipments to North Dakota destinations 8%, Midland/Southwest destinations 7%, and all other markets 31%.

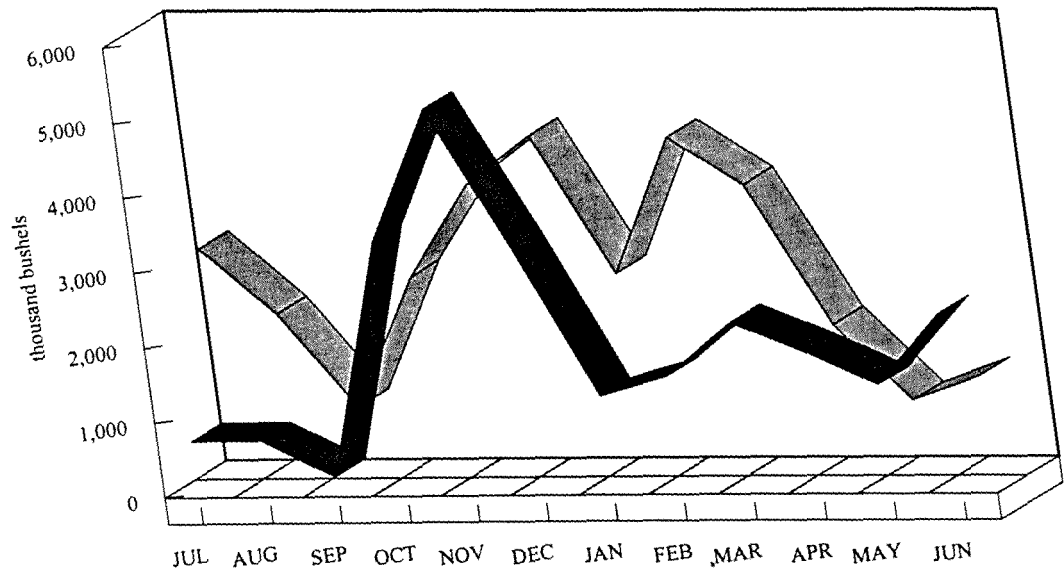
CORN SHIPMENTS

1989-90 to 1997-98



CORN SHIPMENTS

by Month, 1996-97 to 1997-98

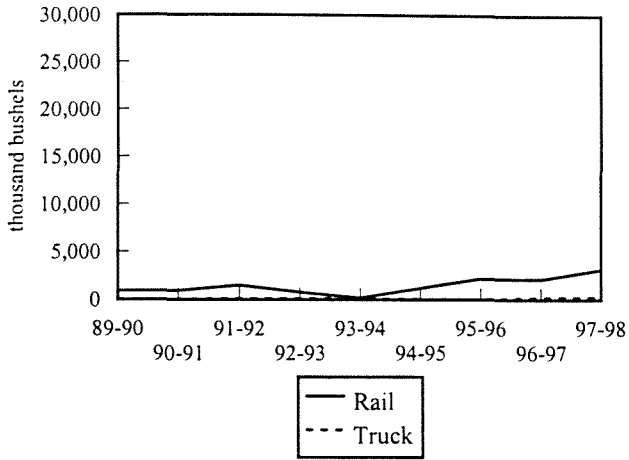


■ 1996-97
■ 1997-98

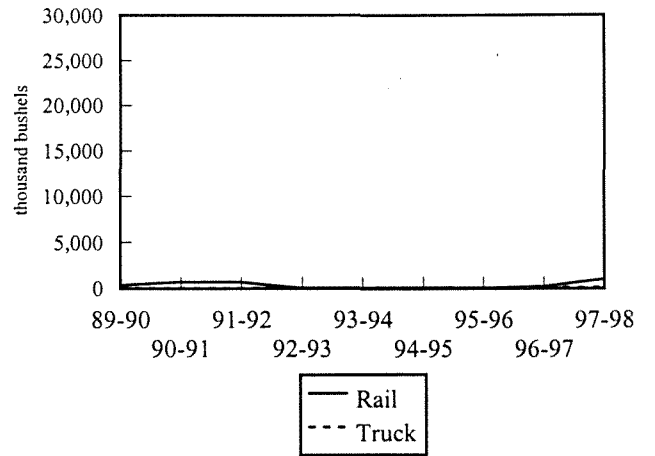
**NORTH DAKOTA CORN SHIPMENTS
BY RAIL, TRUCK AND DESTINATION**
thousand bu.

YEAR	Minneapolis - St. Paul		Duluth - Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1989-90	876 97%	24 3%	357 100%	1 0%	25,720 98%	412 2%	3,914 53%	3,460 47%	30,867 89%	3,897 11%
1990-91	915 97%	28 3%	708 100%	2 0%	19,555 100%	35 0%	3,913 54%	3,278 46%	25,091 88%	3,343 12%
1991-92	1,474 95%	81 5%	651 98%	13 2%	24,641 98%	392 2%	4,731 54%	4,093 46%	31,501 87%	4,583 13%
1992-93	705 87%	102 13%	0 0%	0 0%	8,807 99%	96 1%	2,680 32%	5,663 68%	12,192 68%	5,861 32%
1993-94	162 82%	35 18%	69 92%	6 8%	1,451 97%	14 3%	790 12%	5,641 88%	2,472 30%	5,696 70%
1994-95	1,147 100%	3 0%	97 85%	17 15%	13,699 100%	4 0%	2,528 27%	6,903 73%	17,472 72%	6,927 28%
1995-96	2,168 99%	29 1%	0 0%	24 100%	25,232 97%	715 3%	4,108 54%	3,446 46%	31,508 88%	4,214 12%
1996-97	2,052 91%	201 9%	509 99%	6 1%	13,383 100%	13 0%	4,162 46%	4,862 54%	20,106 80%	5,082 20%
1997-98	3,081 93%	223 7%	942 88%	132 12%	12,642 98%	209 2%	6,012 39%	9,601 61%	22,676 69%	10,166 31%

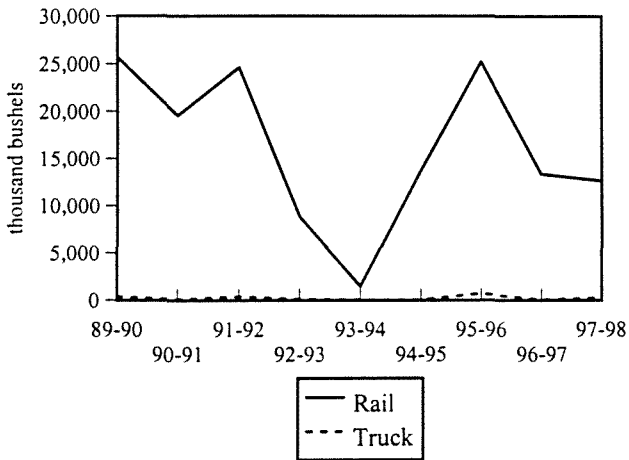
CORN TO MINNEAPOLIS
1989-90 to 1997-98



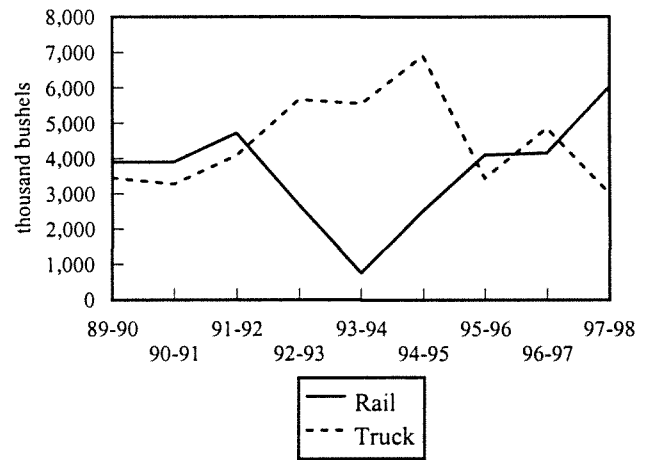
CORN TO DULUTH-SUPERIOR
1989-90 to 1997-98



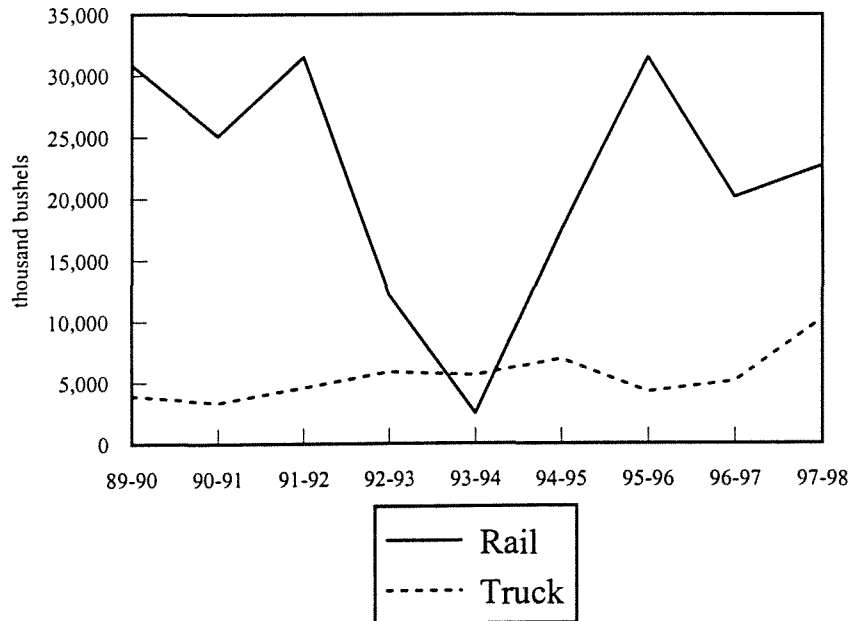
CORN TO WEST
1989-90 to 1997-98



CORN TO MISCELLANEOUS MARKETS
1989-90 to 1997-98

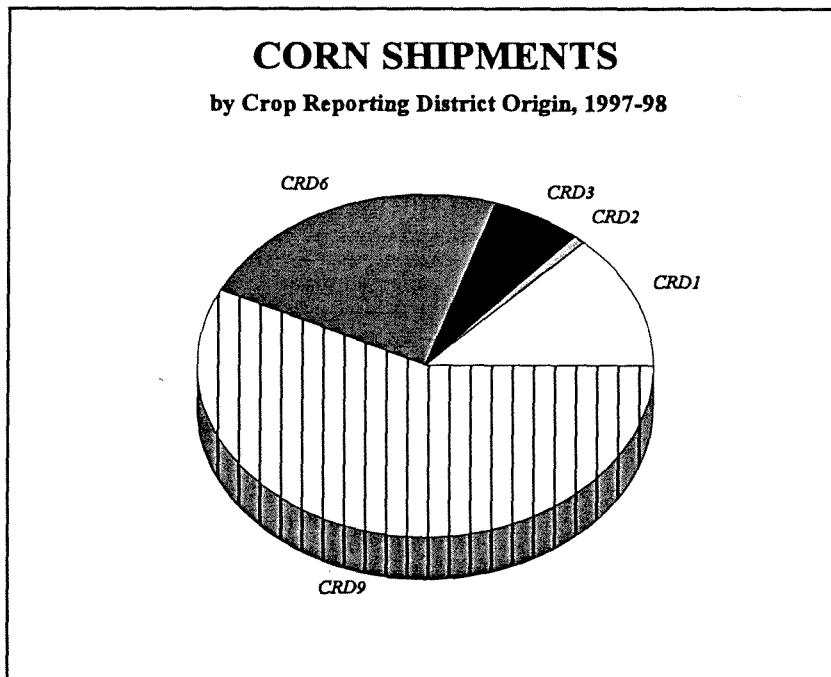


CORN SHIPMENTS
1989-90 to 1997-98



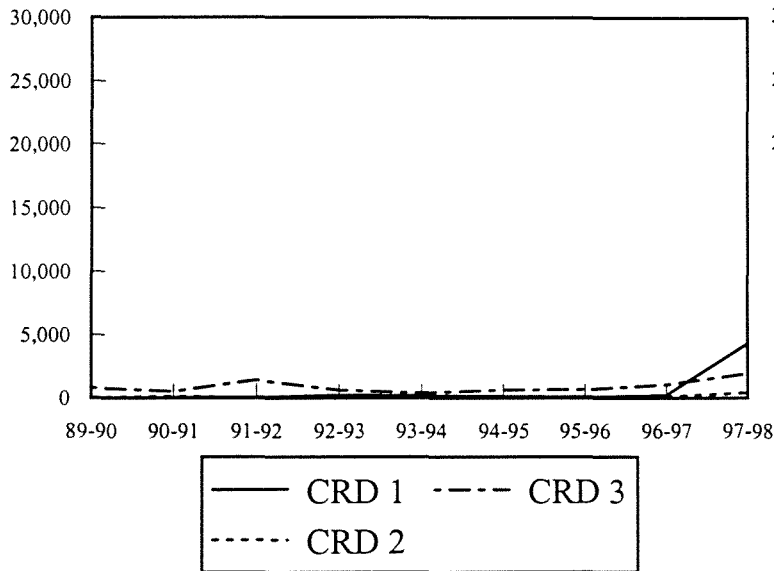
**NORTH DAKOTA CORN SHIPMENTS
BY CROP REPORTING DISTRICT**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1989-90	7 0%	0 0%	797 2%	7 0%	153 1%	7,784 22%	1 0%	0 0%	26,015 75%	34,764 100%
1990-91	0 0%	144 1%	479 2%	142 0%	78 0%	6,812 24%	0 0%	871 3%	19,908 70%	28,434 100%
1991-92	30 0%	18 0%	1,391 4%	20 0%	593 2%	9,660 27%	1 0%	17 0%	24,350 67%	36,084 100%
1992-93	208 1%	6 0%	623 3%	11 0%	27 0%	4,599 25%	1 0%	7 0%	12,567 70%	18,053 100%
1993-94	173 2%	10 0%	389 5%	12 0%	20 0%	1,738 21%	0 0%	149 2%	5,676 69%	8,167 100%
1994-95	108 0%	7 0%	621 3%	12 0%	115 0%	6,636 27%	0 0%	26 0%	16,873 69%	24,398 100%
1995-96	74 0%	45 0%	662 2%	9 0%	130 0%	7,621 23%	2 0%	71 0%	23,928 74%	32,542 100%
1996-97	192 1%	100 0%	1,032 4%	30 0%	218 1%	7,770 31%	0 0%	0 0%	15,845 63%	25,187 100%
1997-98	4,259 13%	387 1%	1,904 6%	7 0%	72 0%	7,553 23%	5 0%	0 0%	18,655 57%	32,842 100%

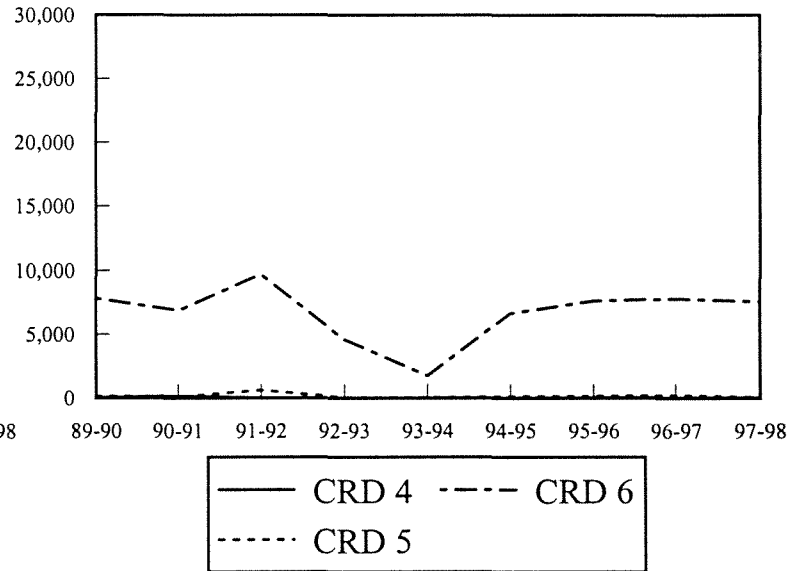


CORN SHIPMENTS BY CROP REPORTING DISTRICT

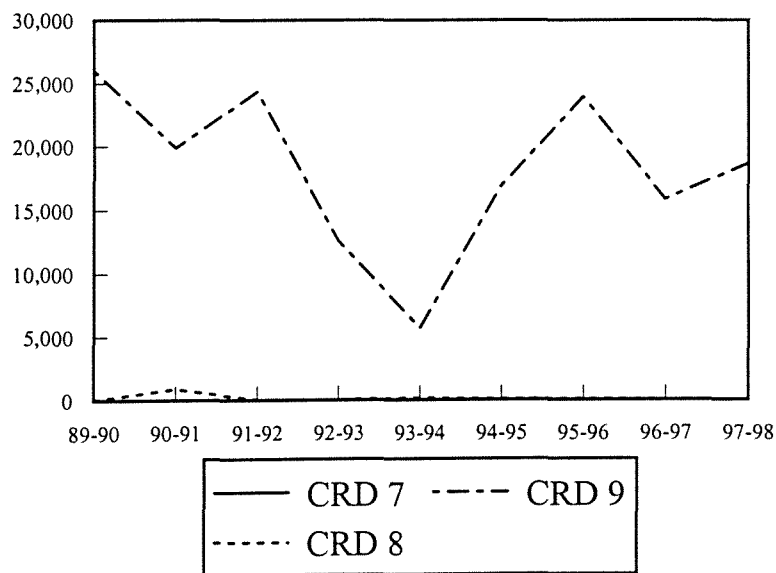
NORTHERN CROP REPORTING DISTRICTS
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS
(thousand bushels)





***CANOLA
SHIPMENTS***

**NORTH DAKOTA CANOLA SHIPMENTS
BY DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul	Duluth - Superior	North Dakota Processors	Misc. Markets	TOTAL
1997-98	78 1%	2,967 34%	4,298 50%	1,298 15%	8,641 100%

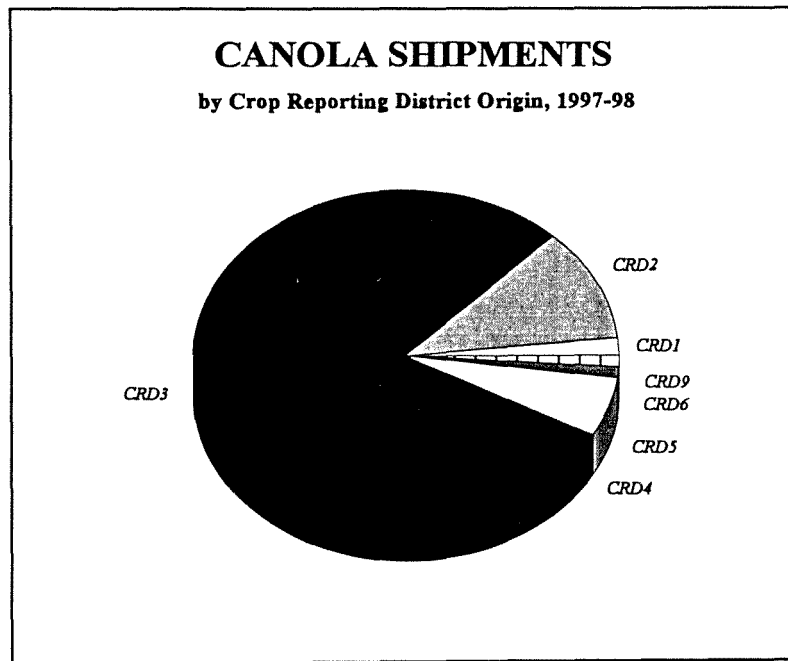
Miscellaneous markets include shipments to Midland/Southwest destinations 4%, and all other markets 15%.

**NORTH DAKOTA CANOLA SHIPMENTS
BY RAIL, TRUCK AND DESTINATION
thousand bu.**

YEAR	Minneapolis - St. Paul		Duluth - Superior		North Dakota Processors		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1997-98	61 78%	17 22%	2,932 99%	35 1%	55 1%	4,243 99%	193 15%	1,105 85%	3,241 38%	5,400 62%

**NORTH DAKOTA CANOLA SHIPMENTS
BY CROP REPORTING DISTRICT**
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1997-98	156 2%	932 11%	6,733 78%	143 2%	527 6%	50 1%	22 0%	1 0%	76 1%	8,641 100%



Waite Library
Dept. of Applied Economics
University of Minnesota
1994 Buford Ave - 232 ClaOff
St Paul MN 55108-6040 USA