

**North Dakota Grain and Oilseed  
Transportation Statistics, 1996-97**

Jolene Dalebout  
Tiffany Erickson  
Kimberly Vachal

**UGPTI Publication No. 118**  
August 1997

---

**North Dakota Grain and Oilseed  
Transportation Statistics  
1996-97**

---

**Jolene Dalebout**

**Tiffany Erickson**

Student Research Assistants

and

**Kimberly Vachal**

Research Assistant

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

*in cooperation with*

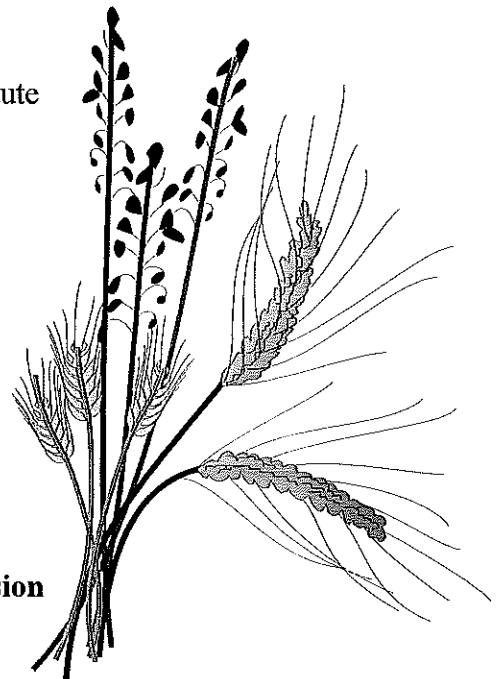
**North Dakota Wheat Commission**

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.*



## Preface

The 1996-97 North Dakota Grain and Oilseed Transportation Statistics Report was prepared by Jolene Dalebout, Tiffany Erickson and Kimberly Vachal, 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

Mel Maier, Administrator  
Neal Fisher, Deputy Administrator  
Margie Martin, Production Promotion Specialist  
Ellen Huber, Program Assistant

### *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
Flax .....	61
Corn .....	69

# NORTH DAKOTA GRAIN AND OILSEED TRANSPORTATION STATISTICS 1996-97

## *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 1996 to June 1997, and previous years.
- ◆ **Commodity:** Hard red spring wheat, durum, barley, sunflower, oats, soybeans, flax and corn.

## *Source of Data*

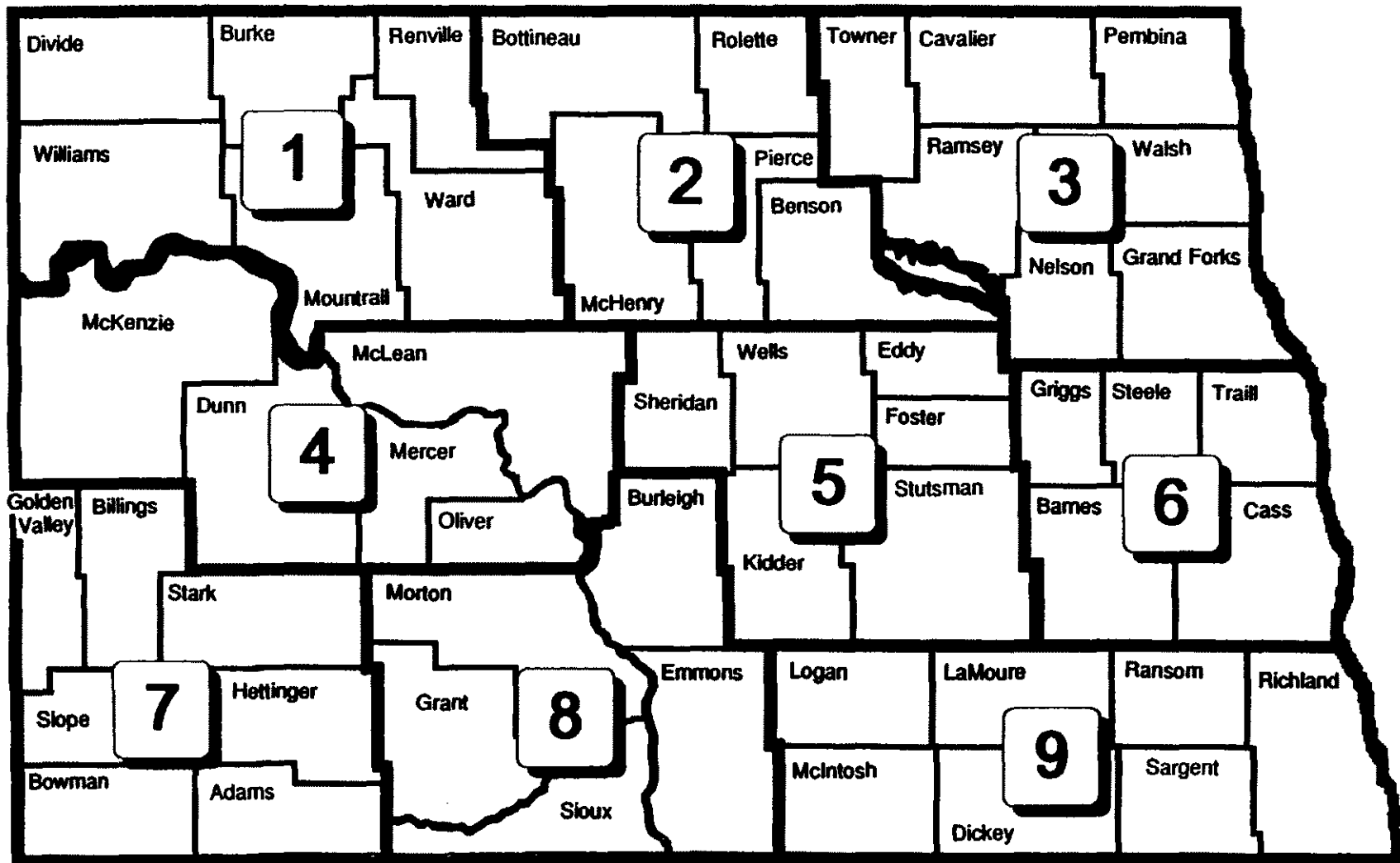
The data used to analyze North Dakota grain distribution patterns for the period July 1996 through June 1997 were obtained from all country elevators in North Dakota. The data source is the North Dakota Public Service Commission's "Grain Movement Report." Every country elevator in North Dakota is required 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) Flax, and (9) Corn.

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

**1996-97 totals are preliminary, representing 99 percent of the required reports.**



North Dakota Crop Reporting Districts and Counties



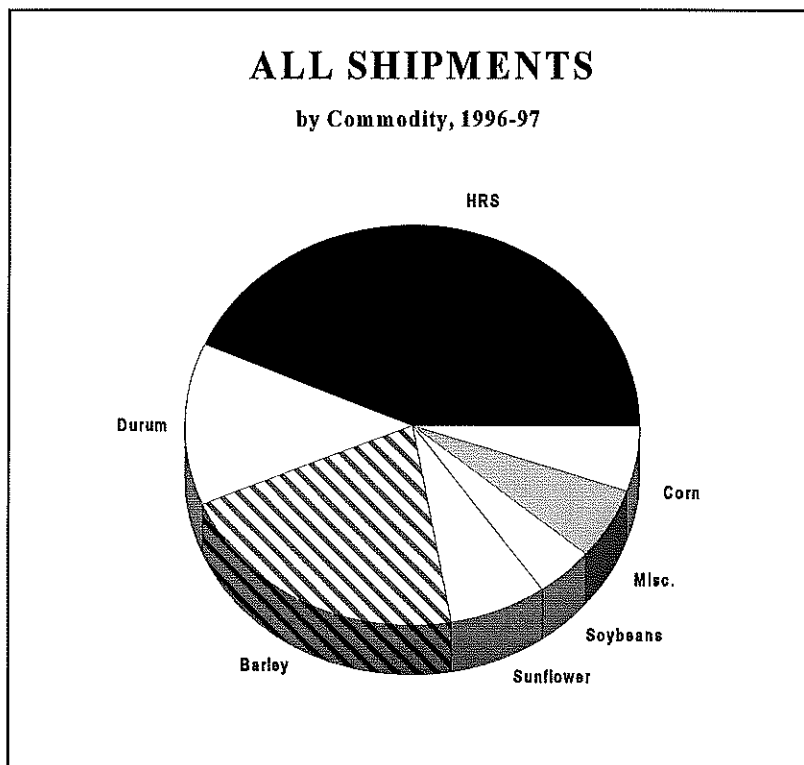
***TOTAL  
GRAIN & OILSEED  
SHIPMENTS***





**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS**  
**1988-89 to 1996-97**  
**thousand bu.**

YEAR	HRS	Durum	Barley	Sunflower	Oats	Soybeans	Flax	Misc.	Corn	TOTAL
1988-89	135,640 36%	43,906 12%	92,715 25%	39,056 10%	4,297 1%	12,160 3%	2,013 1%	13,243 4%	29,344 8%	372,376 100%
1989-90	192,485 40%	72,003 15%	112,256 23%	32,174 7%	5,015 1%	14,015 3%	1,077 1%	14,632 3%	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%	2,258 0%	39,229 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%	4,058 1%	21,047 3%	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%	3,621 1%	12,257 2%	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%	2,228 0%	12,480 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%	2,270 0	18,089 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%	1,610 0	18,347 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%	891 0	28,428 6%	25,187 5%	509,087 100%

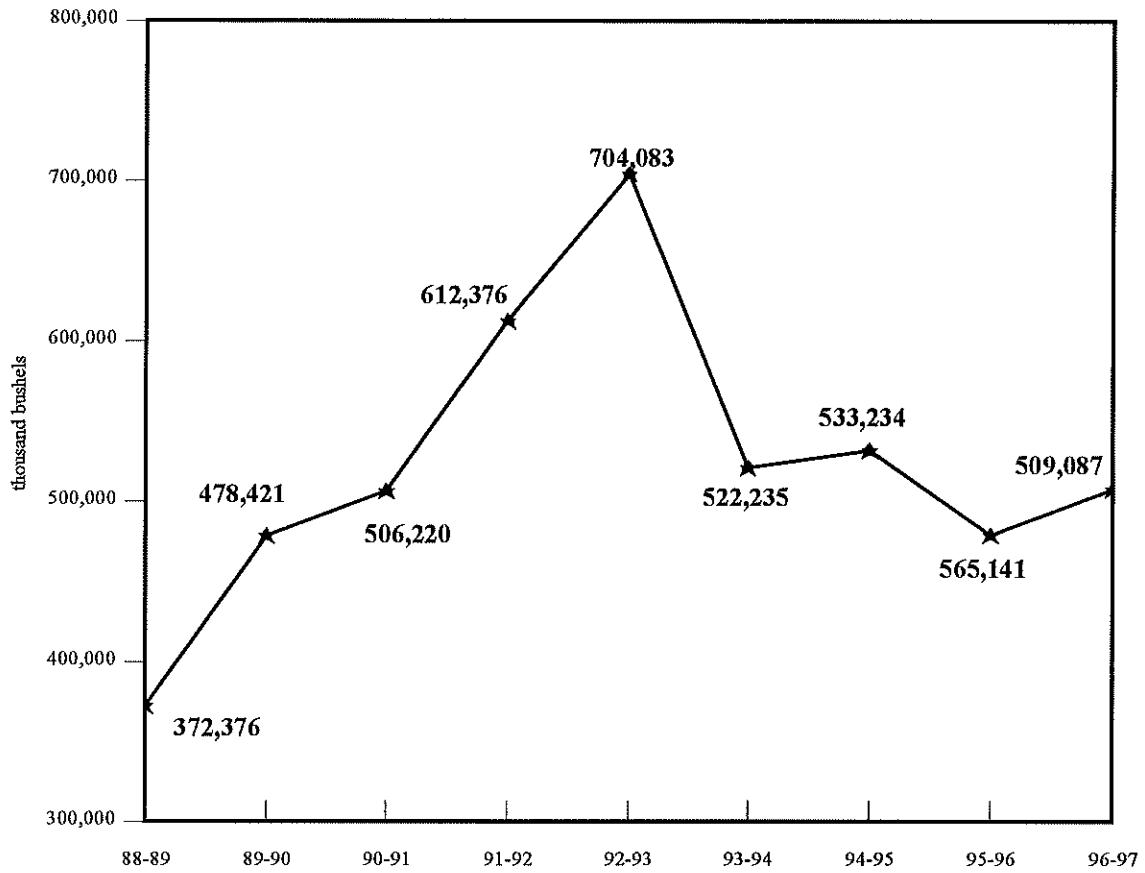


**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS  
BY DESTINATION  
1988-89 to 1996-97  
thousand bu.**

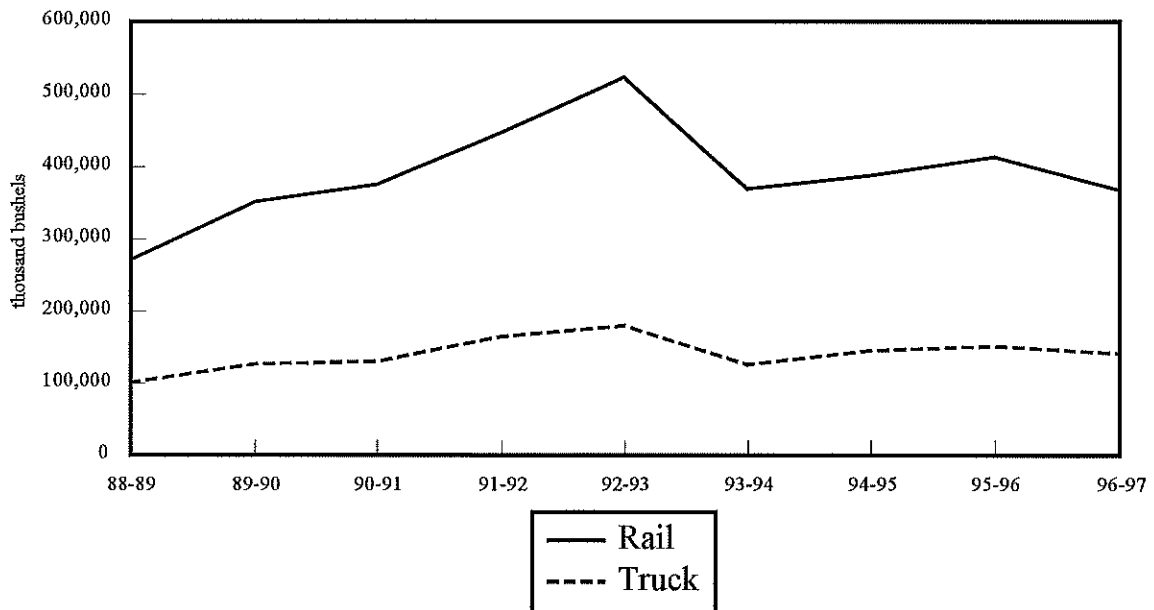
<b>YEAR</b>	<b>Minneapolis- St. Paul</b>	<b>Duluth- Superior</b>	<b>West</b>	<b>North Dakota</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>85,561</b> 23%	<b>50,767</b> 14%	<b>67,862</b> 18%	<b>50,854</b> 14%	<b>117,333</b> 31%	<b>372,376</b> 100%
<b>1989-90</b>	<b>107,958</b> 22%	<b>85,112</b> 18%	<b>67,347</b> 14%	<b>54,110</b> 11%	<b>163,894</b> 35%	<b>478,421</b> 100%
<b>1990-91</b>	<b>114,712</b> 23%	<b>80,740</b> 16%	<b>77,311</b> 15%	<b>61,987</b> 12%	<b>171,470</b> 34%	<b>506,220</b> 100%
<b>1991-92</b>	<b>134,437</b> 22%	<b>73,029</b> 12%	<b>75,720</b> 12%	<b>74,695</b> 12%	<b>254,491</b> 42%	<b>612,376</b> 100%
<b>1992-93</b>	<b>145,713</b> 21%	<b>82,087</b> 12%	<b>95,005</b> 13%	<b>89,780</b> 13%	<b>291,497</b> 41%	<b>704,083</b> 100%
<b>1993-94</b>	<b>125,542</b> 24%	<b>66,452</b> 13%	<b>82,949</b> 16%	<b>54,375</b> 10%	<b>191,705</b> 37%	<b>521,023</b> 100%
<b>1994-95</b>	<b>135,193</b> 25%	<b>62,920</b> 12%	<b>82,823</b> 16%	<b>77,563</b> 15%	<b>173,301</b> 33%	<b>531,800</b> 100%
<b>1995-96</b>	<b>129,626</b> 27%	<b>41,540</b> 9%	<b>89,485</b> 19%	<b>60,717</b> 13%	<b>157,513</b> 33%	<b>478,881</b> 100%
<b>1996-97</b>	<b>129,892</b> 26%	<b>61,122</b> 12%	<b>65,378</b> 13%	<b>75,773</b> 15%	<b>175,395</b> 35%	<b>507,560</b> 100%

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

### ALL COMMODITY SHIPMENTS 1988-89 to 1996-97



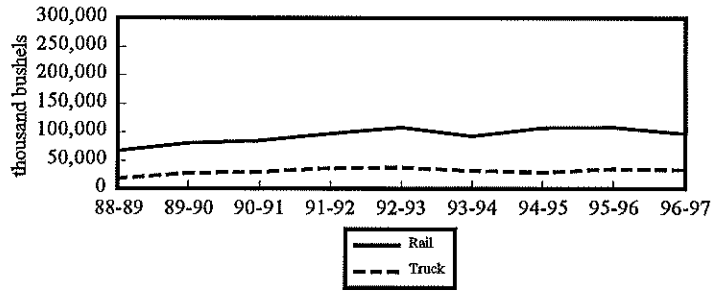
### ALL COMMODITY SHIPMENTS 1988-89 to 1996-97



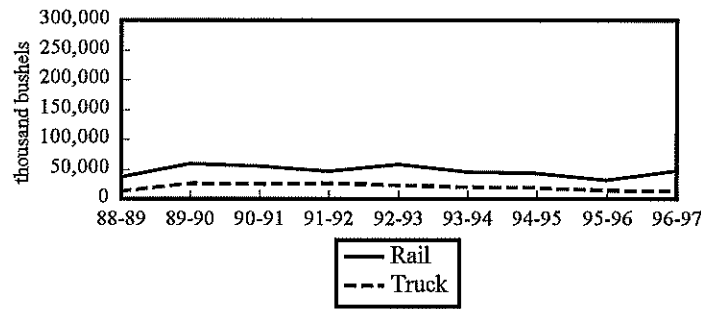
**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION**  
thousand bu.

YEAR	Minneapolis-St. Paul		Duluth-Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	67,358 79%	18,203 21%	37,044 73%	13,723 27%	62,570 92%	5,291 8%	103,988 62%	64,199 38%	270,961 73%	101,416 27%
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%

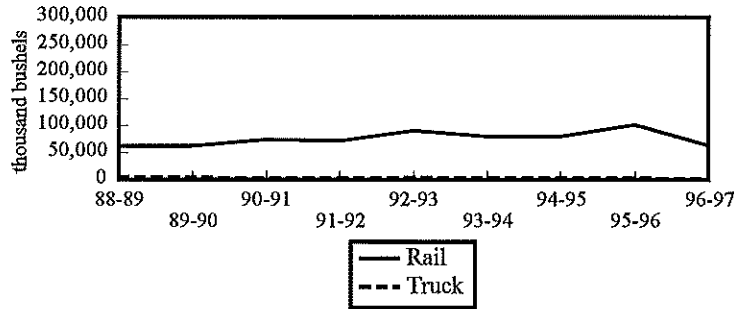
### ALL SHIPMENTS TO MINNEAPOLIS 1988-89 to 1996-97



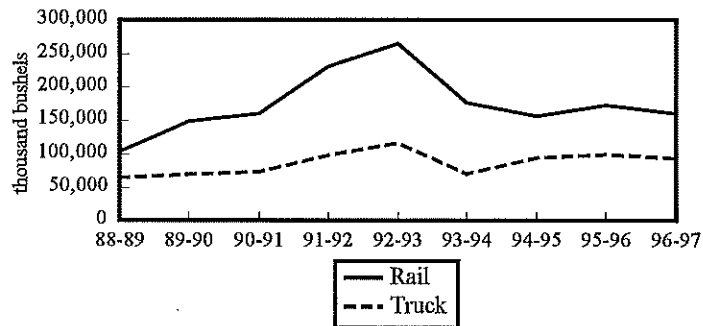
### ALL SHIPMENTS TO DULUTH-SUPERIOR 1988-89 to 1996-97



### ALL SHIPMENTS TO WEST 1988-89 to 1996-97



### ALL SHIPMENTS TO MISCELLANEOUS MARKETS 1988-89 to 1996-97

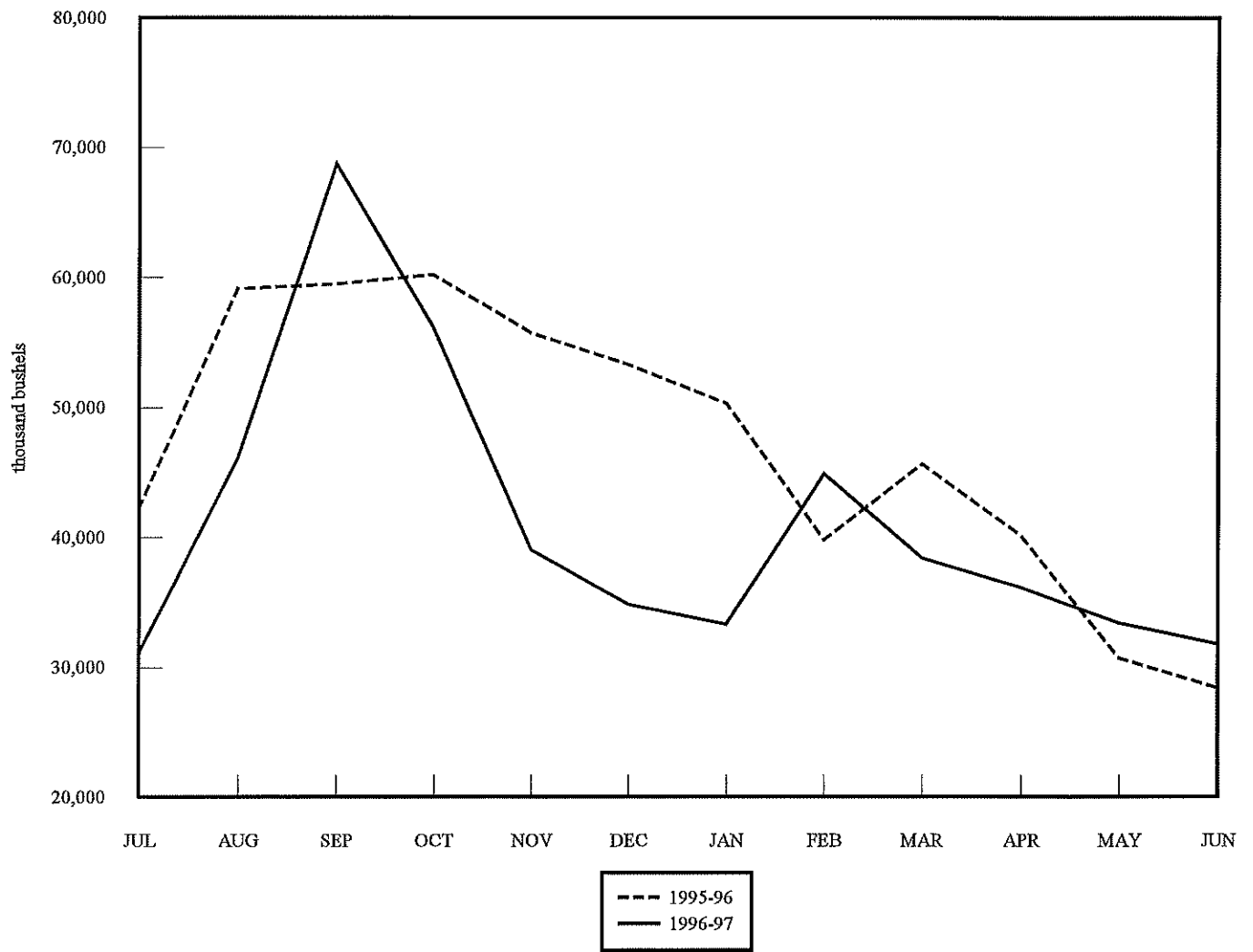


**NORTH DAKOTA GRAIN AND OILSEED MOVEMENTS  
BY MONTH  
July 1996 - June 1997  
thousand bu.**

<b>MONTH</b>	<b>HRS</b>	<b>Durum</b>	<b>Soyb</b>	<b>Flax</b>	<b>Barley</b>	<b>Oats</b>	<b>Corn</b>	<b>SF</b>	<b>Misc.</b>	<b>TOTAL</b>
<b>July</b>	10,579	5,390	1,579	67	8,981	595	1,286	2,304	351	31,132
<b>August</b>	19,646	3,721	630	58	16,539	1,140	748	2,054	1,602	46,138
<b>September</b>	36,332	8,418	582	116	16,390	729	265	858	5,040	68,730
<b>October</b>	21,001	6,248	7,942	221	8,326	296	3,393	7,501	1,261	56,189
<b>November</b>	14,477	5,476	2,332	116	5,920	55	5,172	3,543	1,938	39,029
<b>December</b>	14,499	6,010	1,134	78	6,351	124	3,302	2,743	604	34,845
<b>January</b>	15,519	5,733	708	36	6,277	188	1,326	3,213	325	33,325
<b>February</b>	21,350	6,112	1,712	58	10,182	108	1,587	3,319	460	44,888
<b>March</b>	17,251	5,813	1,282	105	7,707	176	2,304	3,029	753	38,420
<b>April</b>	17,958	5,560	1,573	13	6,355	329	1,913	2,063	389	36,153
<b>May</b>	15,649	5,219	1,037	6	7,629	74	1,474	1,957	351	33,396
<b>June</b>	14,784	4,063	586	16	7,163	104	2,417	2,352	297	31,782
<b>TOTAL</b>	<b>219,045</b>	<b>67,763</b>	<b>21,097</b>	<b>890</b>	<b>107,820</b>	<b>3,918</b>	<b>25,187</b>	<b>34,936</b>	<b>13,371</b>	<b>494,027</b>

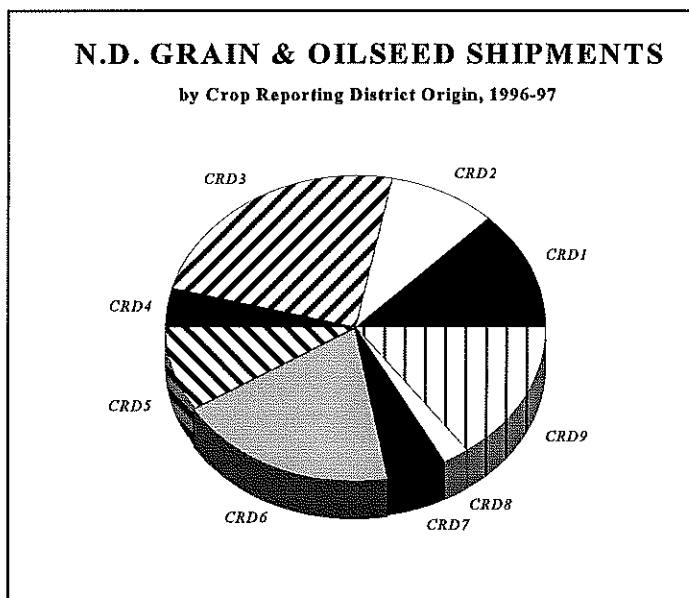
# ALL COMMODITY SHIPMENTS

By Month, 1995-96 and 1996-97



**NORTH DAKOTA GRAIN AND OILSEED SHIPMENTS  
BY CROP REPORTING DISTRICT ORIGIN  
1988-89 to 1996-97  
thousand bu.**

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	41,877 11%	23,012 6%	91,616 25%	8,148 2%	34,629 9%	88,380 24%	16,943 5%	6,565 2%	61,205 16%	372,376 100%
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%

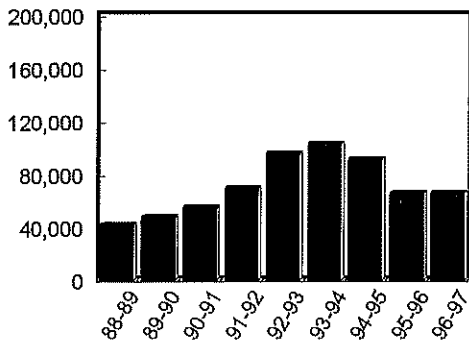




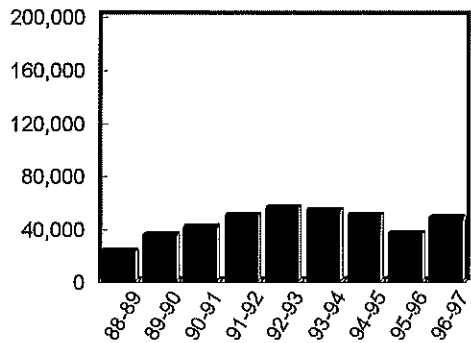
# ALL GRAIN AND OILSEED SHIPMENTS BY CROP REPORTING DISTRICT

(thousand bushels)

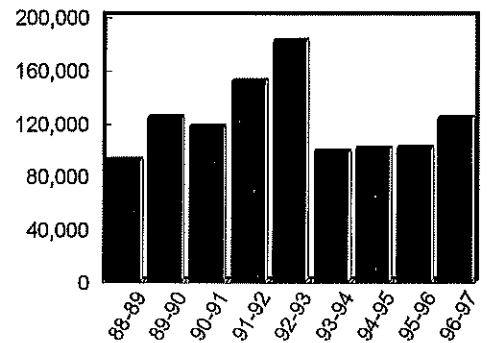
CRD 1



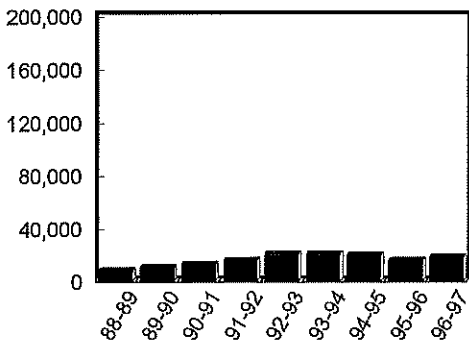
CRD 2



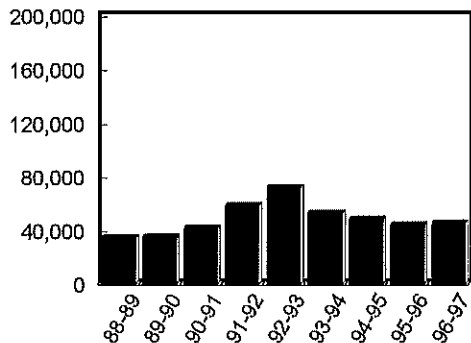
CRD 3



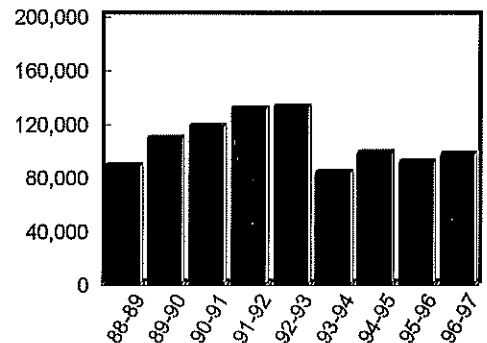
CRD 4



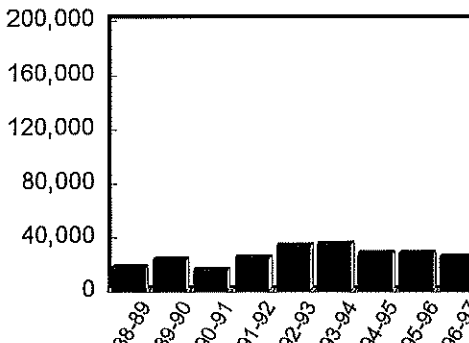
CRD 5



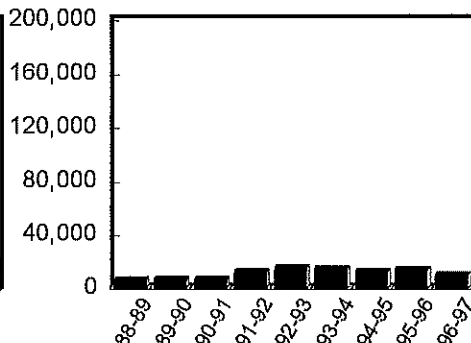
CRD 6



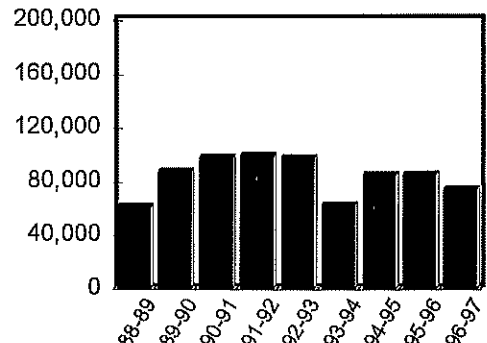
CRD 7



CRD 8



CRD 9







***HRS  
WHEAT  
SHIPMENTS***

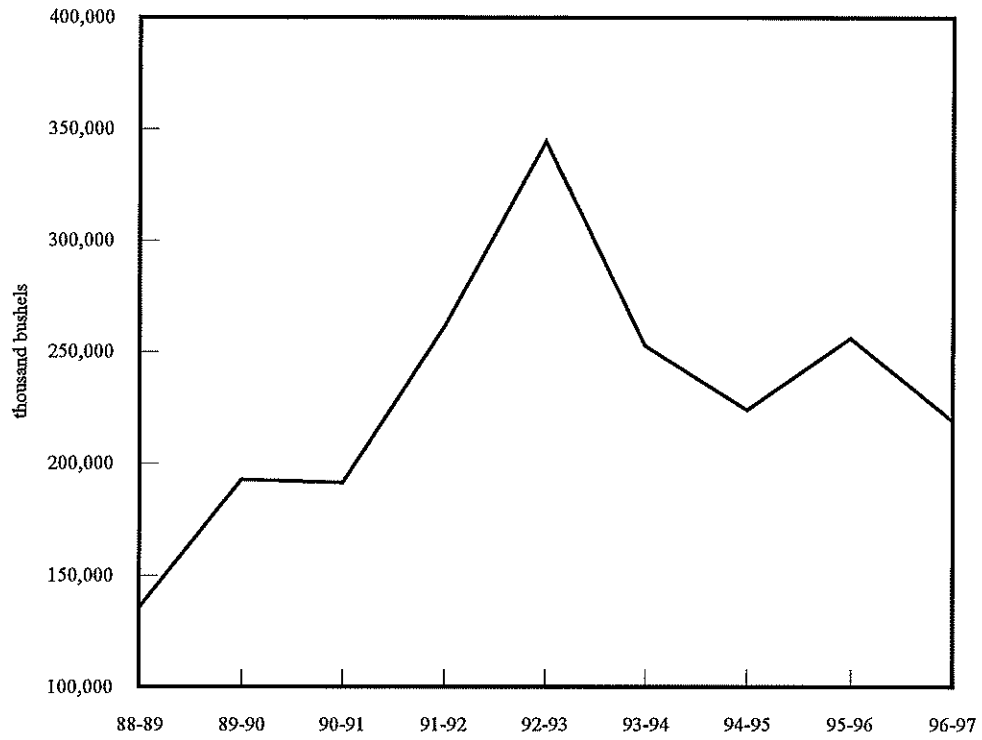
**NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY DESTINATION  
thousand bu.**

<b>YEAR</b>	<b>Minneapolis- St. Paul</b>	<b>Duluth- Superior</b>	<b>West</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>42,265</b> 31%	<b>26,239</b> 19%	<b>29,789</b> 29%	<b>37,347</b> 28%	<b>135,640</b> 100%
<b>1989-90</b>	<b>58,880</b> 31%	<b>38,510</b> 20%	<b>25,131</b> 13%	<b>69,964</b> 36%	<b>192,485</b> 100%
<b>1990-91</b>	<b>56,356</b> 29%	<b>39,229</b> 21%	<b>39,521</b> 21%	<b>55,966</b> 29%	<b>191,072</b> 100%
<b>1991-92</b>	<b>74,751</b> 29%	<b>23,891</b> 9%	<b>29,125</b> 11%	<b>133,400</b> 51%	<b>261,169</b> 100%
<b>1992-93</b>	<b>81,210</b> 24%	<b>38,573</b> 11%	<b>62,458</b> 18%	<b>162,021</b> 47%	<b>344,261</b> 100%
<b>1993-94</b>	<b>64,995</b> 25%	<b>36,159</b> 14%	<b>66,186</b> 26%	<b>88,036</b> 34%	<b>255,376</b> 100%
<b>1994-95</b>	<b>62,588</b> 28%	<b>34,840</b> 16%	<b>52,971</b> 24%	<b>73,487</b> 33%	<b>223,886</b> 100%
<b>1995-96</b>	<b>65,828</b> 29%	<b>25,666</b> 11%	<b>47,294</b> 21%	<b>90,718</b> 40%	<b>229,506</b> 100%
<b>1996-97</b>	<b>64,913</b> 30%	<b>35,353</b> 16%	<b>36,584</b> 17%	<b>82,195</b> 38%	<b>219,045</b> 100%

Miscellaneous markets include shipments to Midland/Southwest destinations 13%, other Minnesota/Wisconsin destinations 5%, and all other markets including North Dakota processors 24%.

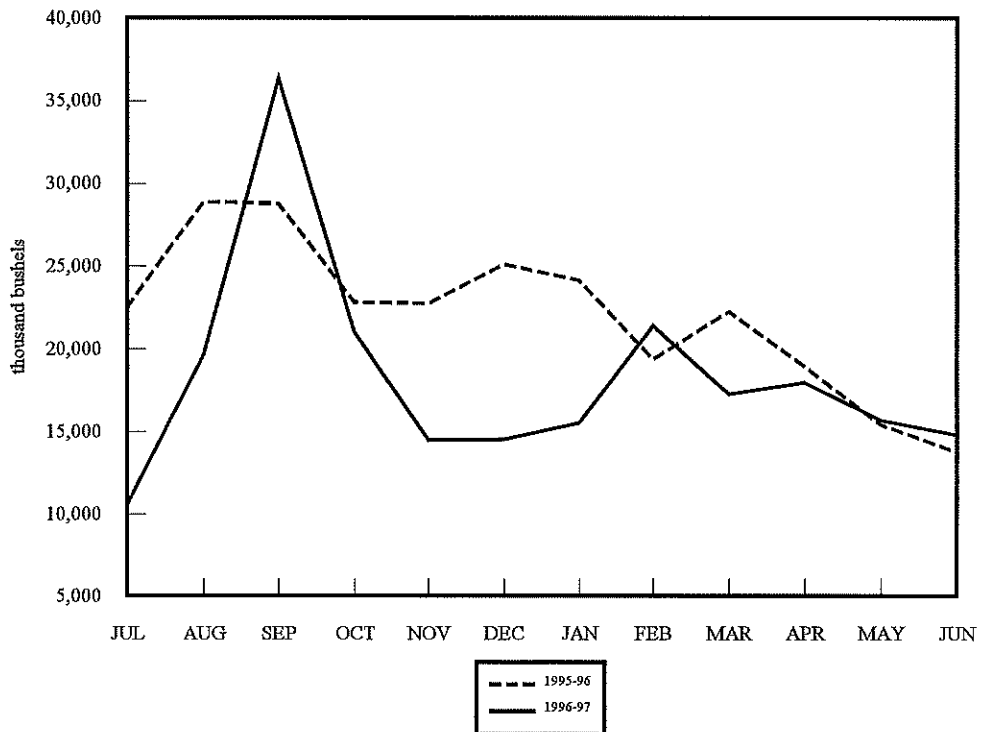
## HRS WHEAT SHIPMENTS

1988-89 to 1996-97



## HRS WHEAT SHIPMENTS

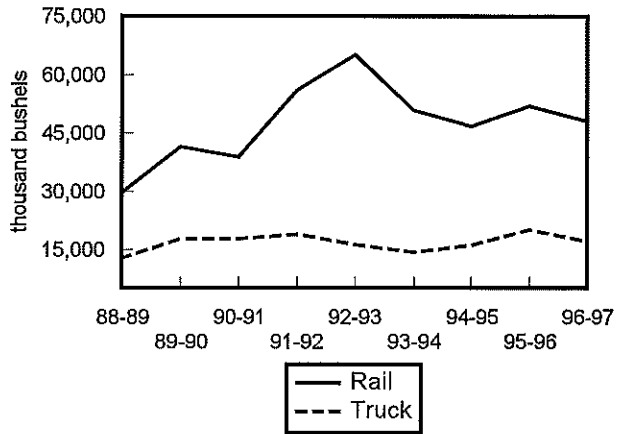
by Month, 1994-95 to 1995-96



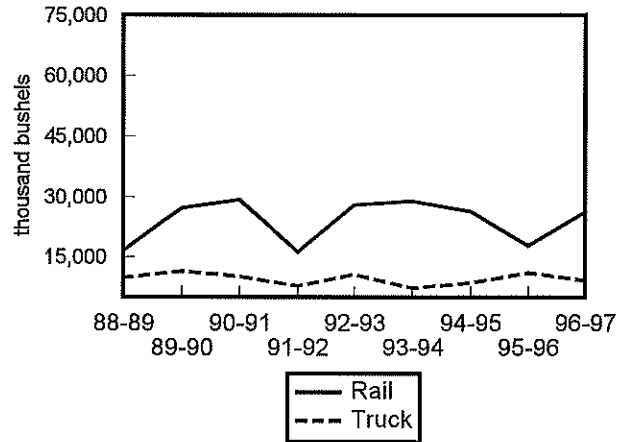
**NORTH DAKOTA HARD RED SPRING WHEAT SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION**  
thousand bu.

YEAR	Minneapolis-St. Paul		Duluth-Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	29,566 70%	12,700 30%	16,414 63%	9,825 37%	25,688 86%	4,100 14%	27,697 74%	9,650 26%	99,365 73%	36,275 27%
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%

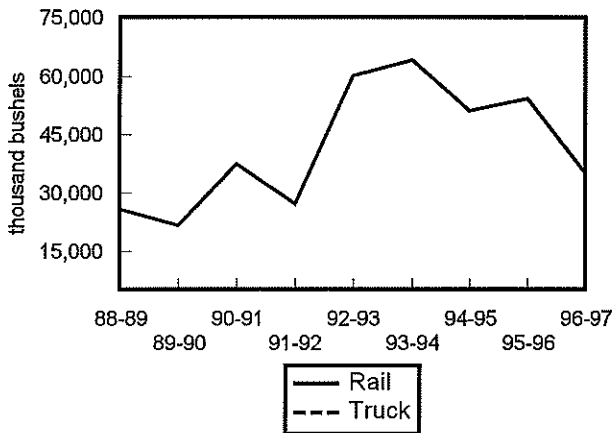
HRS WHEAT TO MINNEAPOLIS  
1988-89 to 1996-97



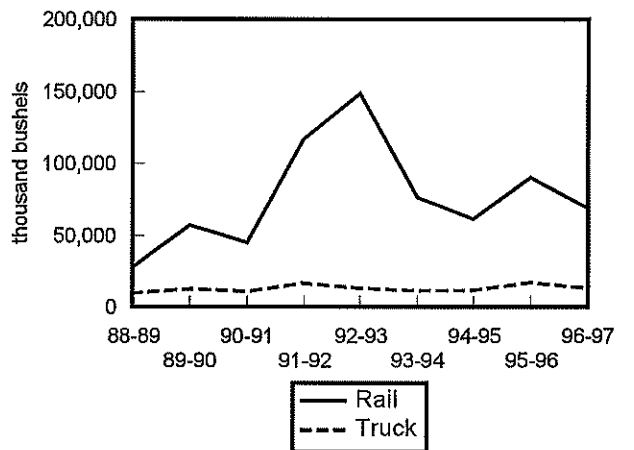
HRS WHEAT TO DULUTH-SUPERIOR  
1988-89 to 1996-97



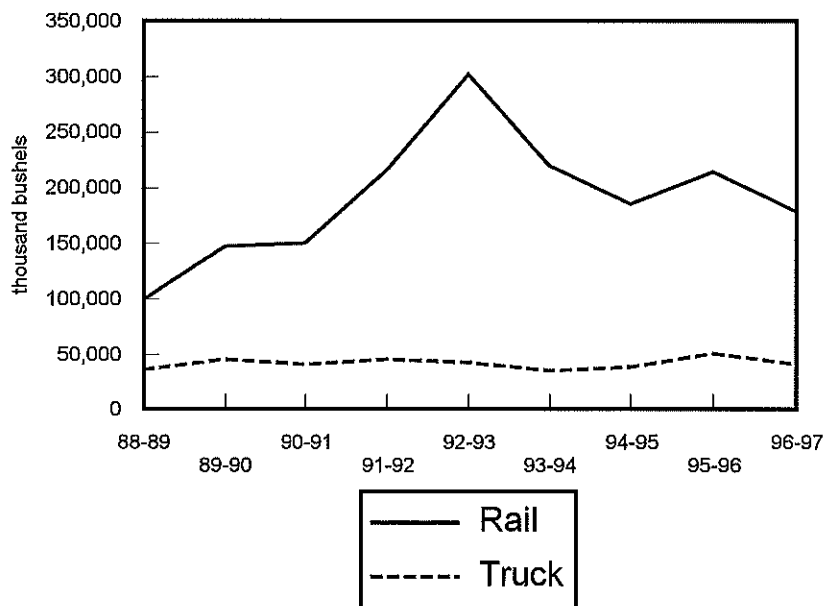
HRS WHEAT TO WEST  
1988-89 to 1996-97



HRS WHEAT TO MISCELLANEOUS MARKETS  
1988-89 to 1996-97

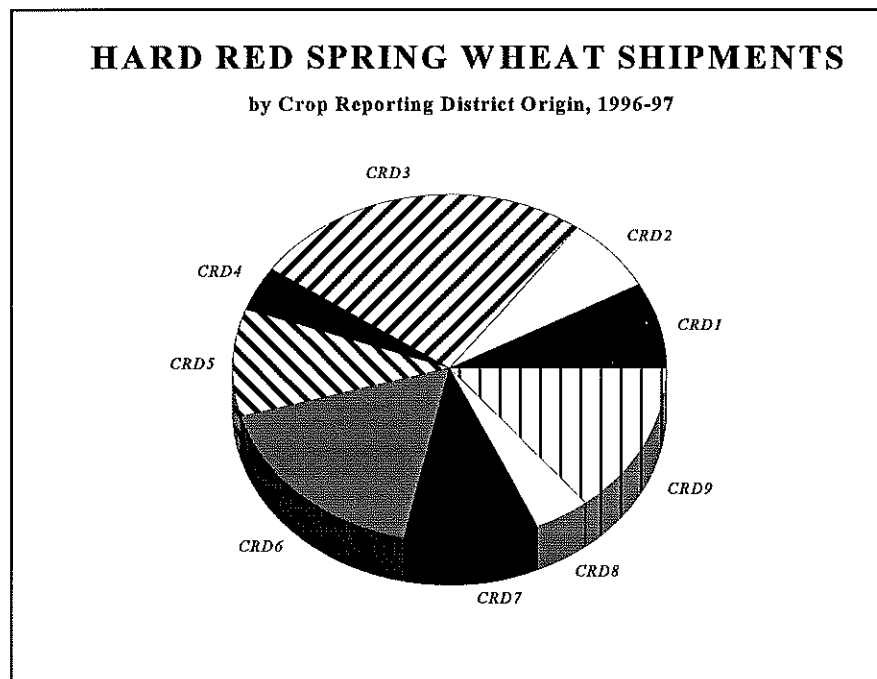


HRS WHEAT SHIPMENTS  
1988-89 to 1996-97



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

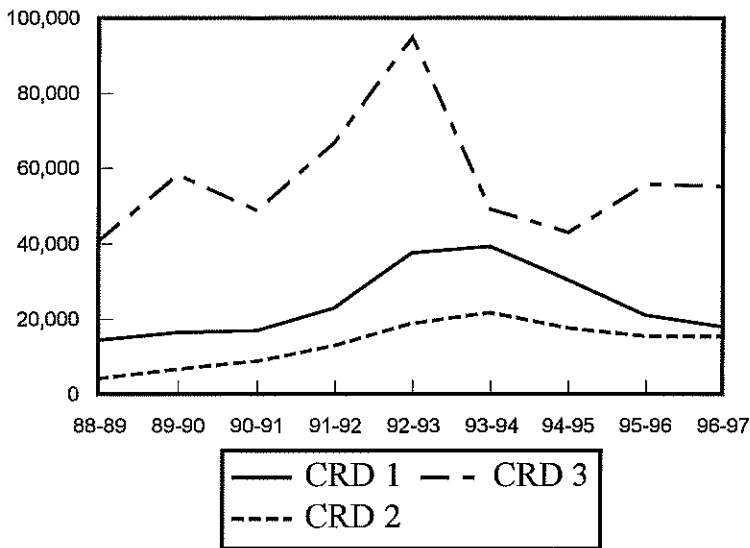
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	14,445 10%	4,157 3%	40,595 29%	3,595 3%	12,453 9%	26,334 19%	13,016 9%	4,373 3%	16,673 12%	135,640 100%
1989-90	16,523 9%	6,775 4%	58,154 30%	4,477 2%	15,229 8%	40,511 21%	18,217 9%	5,043 3%	27,556 14%	192,485 100%
1990-91	16,896 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	20,999 9%	15,402 7%	55,776 24%	8,350 4%	25,680 11%	34,970 15%	24,592 11%	12,192 5%	31,546 14%	229,507 100%
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%



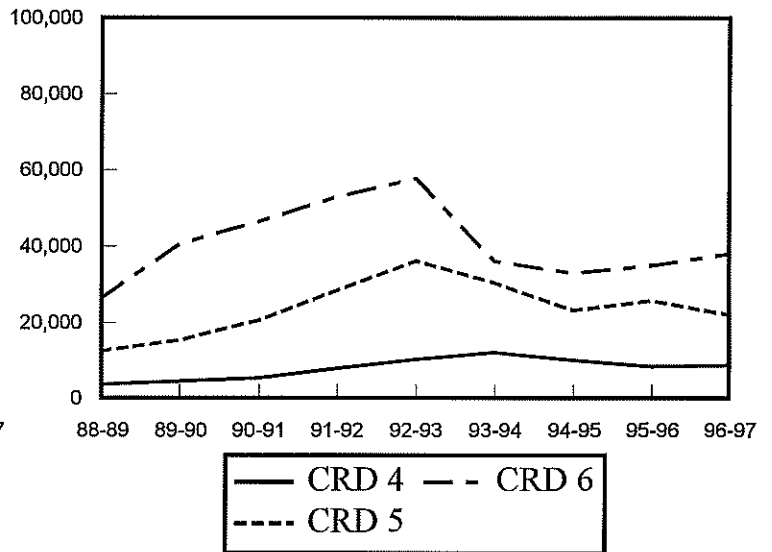


# HARD RED SPRING WHEAT SHIPMENTS BY CROP REPORTING DISTRICT

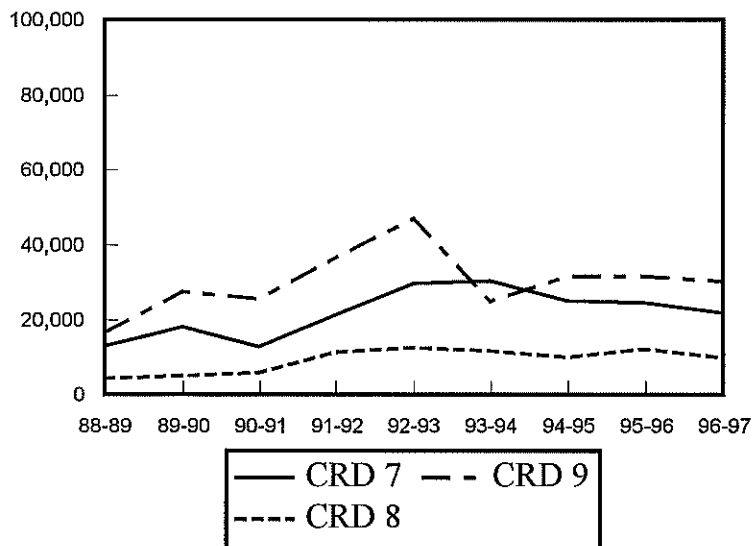
**NORTHERN CROP REPORTING DISTRICTS**  
(thousand bushels)



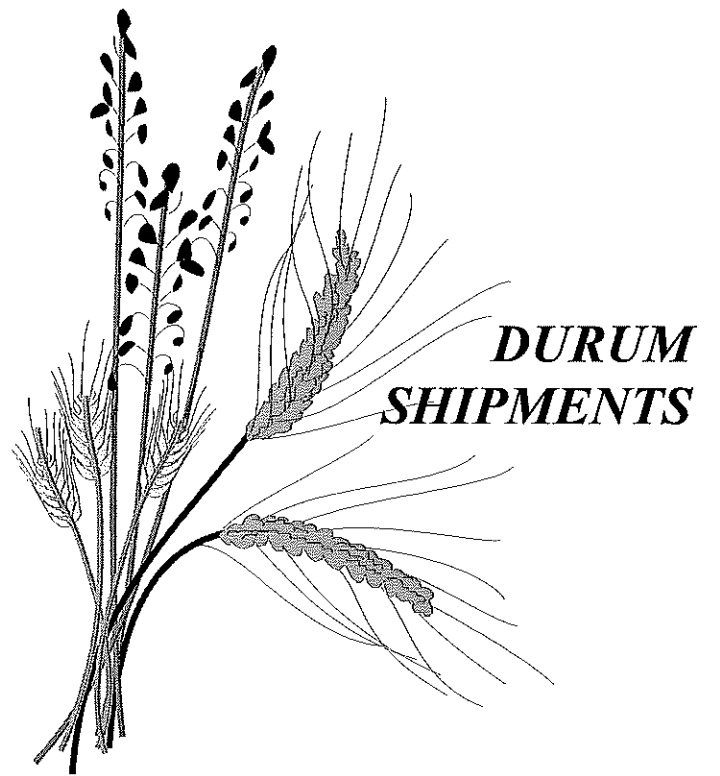
**CENTRAL CROP REPORTING DISTRICTS**  
(thousand bushels)



**SOUTHERN CROP REPORTING DISTRICTS**  
(thousand bushels)







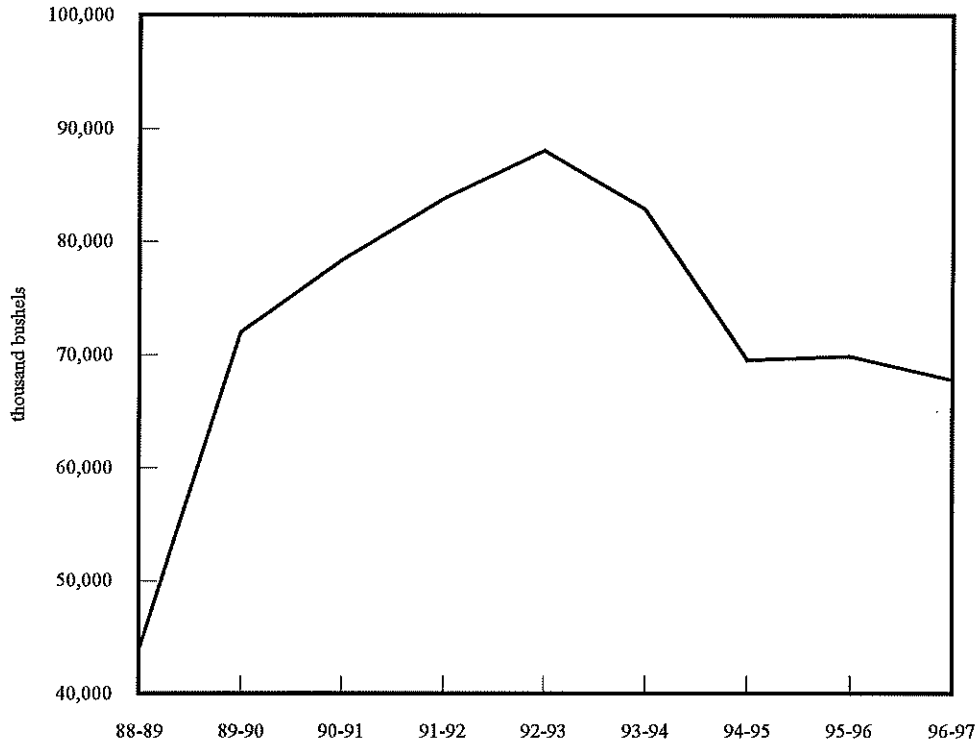
**NORTH DAKOTA DURUM SHIPMENTS  
BY DESTINATION  
thousand bu.**

<b>YEAR</b>	<b>Minneapolis - St. Paul</b>	<b>Duluth- Superior</b>	<b>West</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>10,665</b> 24%	<b>10,033</b> 23%	<b>1,437</b> 3%	<b>21,769</b> 50%	<b>43,905</b> 100%
<b>1989-90</b>	<b>15,612</b> 22%	<b>21,103</b> 29%	<b>1,127</b> 2%	<b>34,161</b> 47%	<b>72,003</b> 100%
<b>1990-91</b>	<b>18,159</b> 23%	<b>24,167</b> 31%	<b>929</b> 1%	<b>35,054</b> 45%	<b>78,309</b> 100%
<b>1991-92</b>	<b>16,379</b> 20%	<b>26,063</b> 31%	<b>1,191</b> 1%	<b>40,191</b> 48%	<b>83,827</b> 100%
<b>1992-93</b>	<b>19,434</b> 22%	<b>20,627</b> 23%	<b>2,424</b> 3%	<b>45,596</b> 52%	<b>88,080</b> 100%
<b>1993-94</b>	<b>21,155</b> 25%	<b>12,798</b> 15%	<b>2,359</b> 3%	<b>48,428</b> 57%	<b>84,740</b> 100%
<b>1994-95</b>	<b>25,295</b> 36%	<b>6,592</b> 9%	<b>1,569</b> 2%	<b>36,105</b> 52%	<b>69,562</b> 100%
<b>1995-96</b>	<b>19,211</b> 36%	<b>6,465</b> 12%	<b>497</b> 0	<b>27,538</b> 51%	<b>53,711</b> 100%
<b>1996-97</b>	<b>23,003</b> 34%	<b>10,430</b> 15%	<b>879</b> 1%	<b>33,452</b> 49%	<b>67,764</b> 100%

Miscellaneous markets include shipments to Midland/Southwest destinations 22%, other Minnesota/Wisconsin destinations 8%, and all other markets including North Dakota processors 28%.

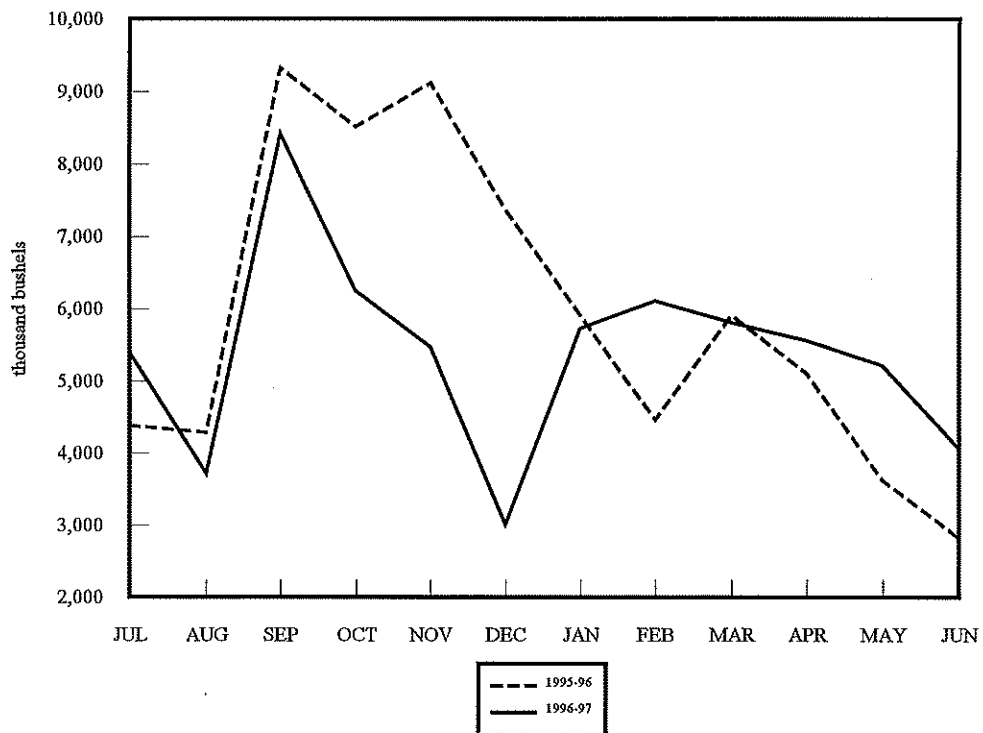
## DURUM SHIPMENTS

1988-89 to 1996-97



## DURUM SHIPMENTS

by Month, 1995-96 to 1996-97

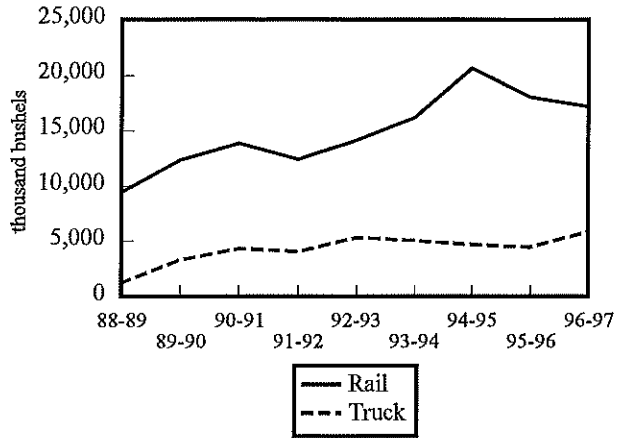


**NORTH DAKOTA DURUM SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION**  
thousand bu.

YEAR	Minneapolis - St. Paul		Duluth - Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	9,421 88%	1,244 12%	8,995 90%	1,037 10%	1,426 99%	10 1%	15,444 71%	6,324 29%	35,288 80%	8,617 20%
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%

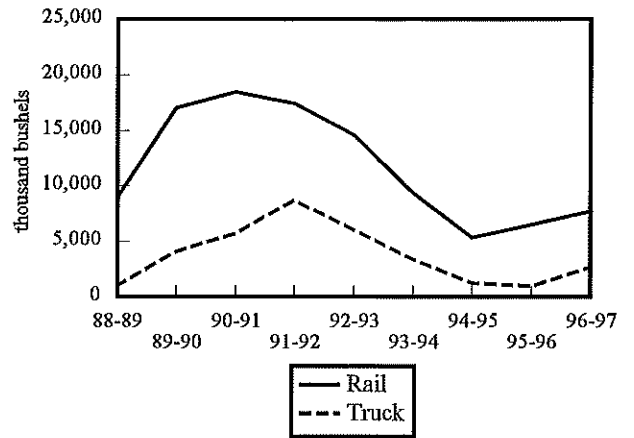
### DURUM TO MINNEAPOLIS

1988-89 to 1996-97



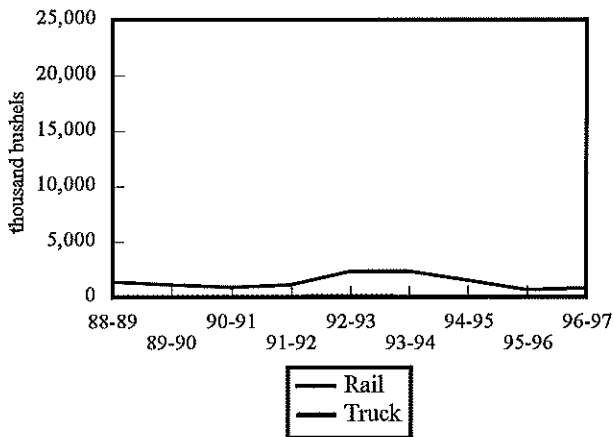
### DURUM TO DULUTH-SUPERIOR

1988-89 to 1996-97



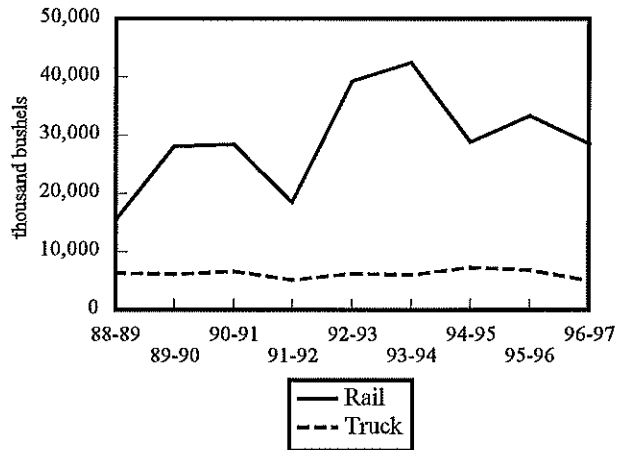
### DURUM TO WEST

1988-89 to 1996-97



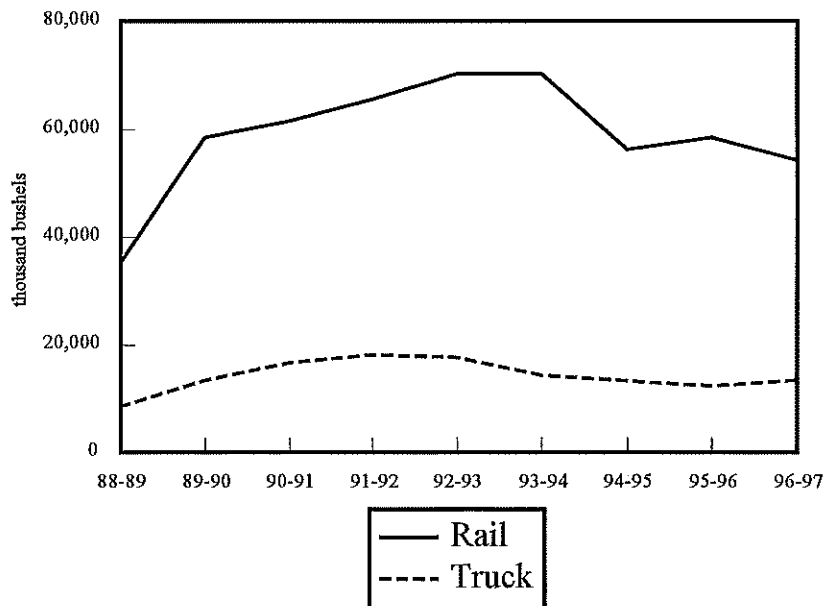
### DURUM TO MISCELLANEOUS MARKETS

1988-89 to 1996-97



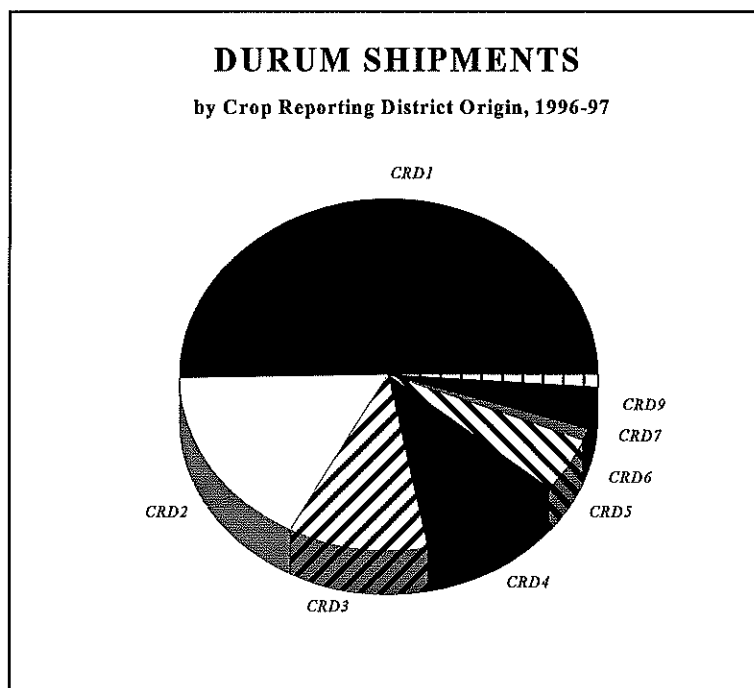
### DURUM SHIPMENTS

1988-89 to 1996-97



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

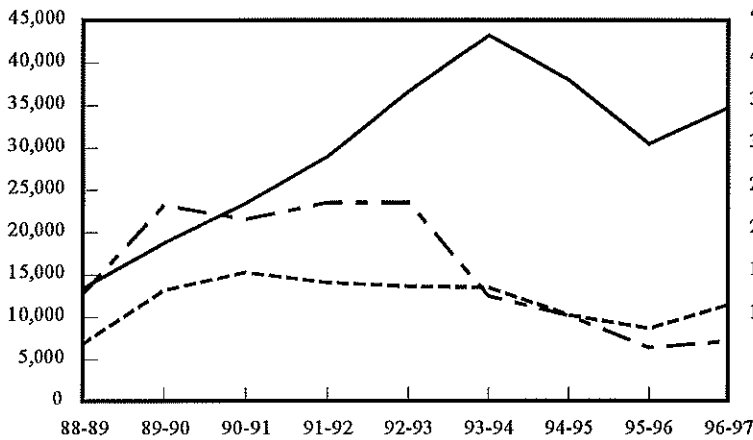
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	13,346 30%	6,820 16%	12,607 29%	1,671 4%	2,919 7%	2,596 6%	1,394 3%	229 1%	2,320 5%	43,902 100%
1989-90	18,690 26%	13,063 18%	23,198 32%	4,035 6%	4,013 5%	2,703 4%	2,991 4%	478 1%	2,832 4%	72,003 100%
1990-91	23,441 30%	15,241 19%	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	30,448 57%	8,610 16%	6,343 12%	3,708 7%	1,885 4%	362 0%	1,959 4%	49 0%	346 1%	53,710 100%
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%





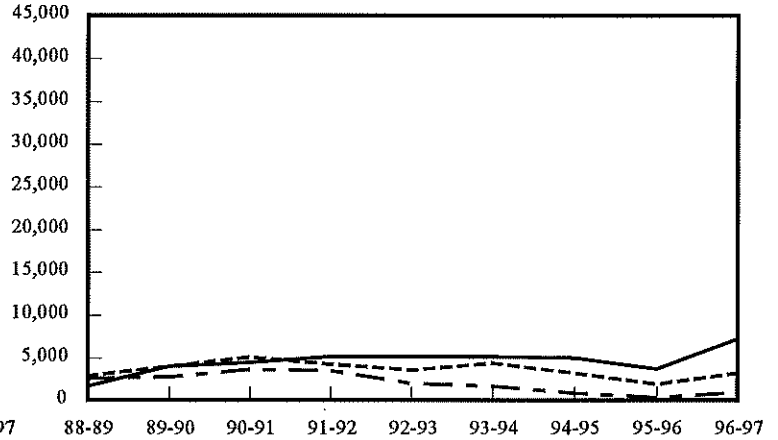
# DURUM SHIPMENTS BY CROP REPORTING DISTRICT

**NORTHERN CROP REPORTING DISTRICTS**  
(thousand bushels)



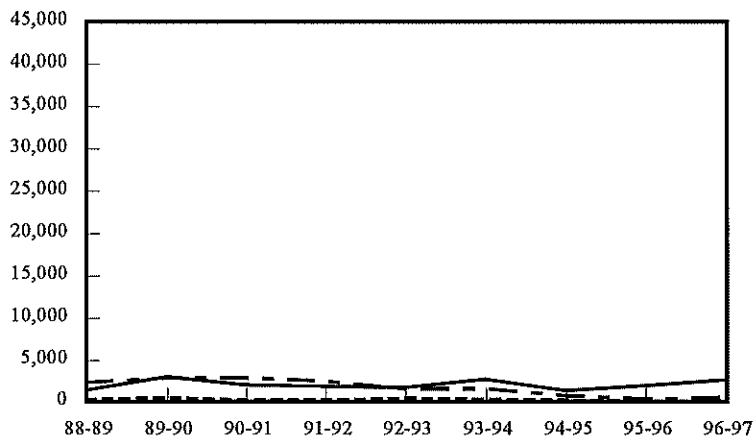
— CRD 1    - - CRD 3  
- - - CRD 2

**CENTRAL CROP REPORTING DISTRICTS**  
(thousand bushels)



— CRD 4    - - CRD 6  
- - - CRD 5

**SOUTHERN CROP REPORTING DISTRICTS**  
(thousand bushels)



— CRD 7    - - CRD 9  
- - - CRD 8





***BARLEY  
SHIPMENTS***

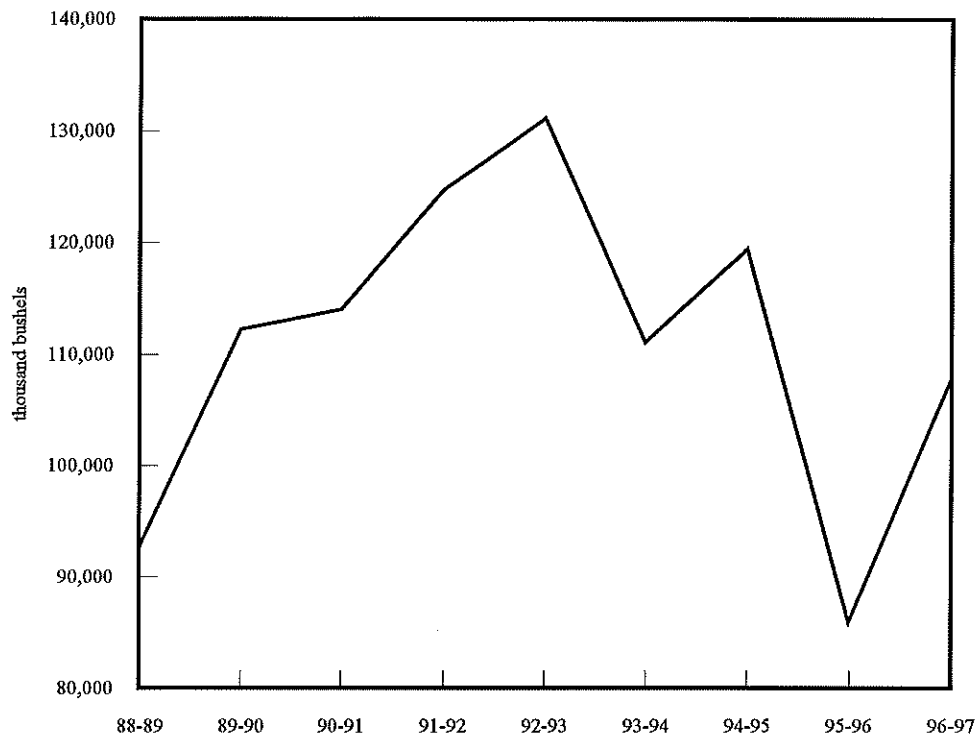
**NORTH DAKOTA BARLEY SHIPMENTS  
BY DESTINATION  
thousand bu.**

<b>YEAR</b>	<b>Minneapolis - St. Paul</b>	<b>Duluth - Superior</b>	<b>Midland/ Southwest</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>22,691</b> 24%	<b>9,735</b> 11%	<b>12,486</b> 13%	<b>47,803</b> 52%	<b>92,715</b> 100%
<b>1989-90</b>	<b>23,464</b> 21%	<b>22,893</b> 20%	<b>19,061</b> 17%	<b>46,838</b> 42%	<b>112,256</b> 100%
<b>1990-91</b>	<b>24,174</b> 21%	<b>14,200</b> 12%	<b>20,482</b> 18%	<b>55,190</b> 48%	<b>114,046</b> 100%
<b>1991-92</b>	<b>28,184</b> 23%	<b>19,398</b> 16%	<b>22,430</b> 17%	<b>54,740</b> 44%	<b>124,755</b> 100%
<b>1992-93</b>	<b>29,461</b> 23%	<b>20,799</b> 16%	<b>18,724</b> 14%	<b>62,153</b> 47%	<b>131,139</b> 100%
<b>1993-94</b>	<b>25,979</b> 23%	<b>16,345</b> 15%	<b>18,276</b> 16%	<b>50,487</b> 45%	<b>111,087</b> 100%
<b>1994-95</b>	<b>33,959</b> 28%	<b>14,514</b> 12%	<b>11,798</b> 10%	<b>59,979</b> 50%	<b>119,405</b> 100%
<b>1995-96</b>	<b>34,313</b> 40%	<b>2,644</b> 3%	<b>4,331</b> 5%	<b>44,676</b> 52%	<b>85,964</b> 100%
<b>1996-97</b>	<b>34,158</b> 32%	<b>5,514</b> 5%	<b>12,670</b> 12%	<b>55,479</b> 51%	<b>107,821</b> 100%

Miscellaneous markets include shipments to Pacific Northwest destinations 8%, other Minnesota/Wisconsin destinations 13%, North Dakota destinations, and all other markets 34%.

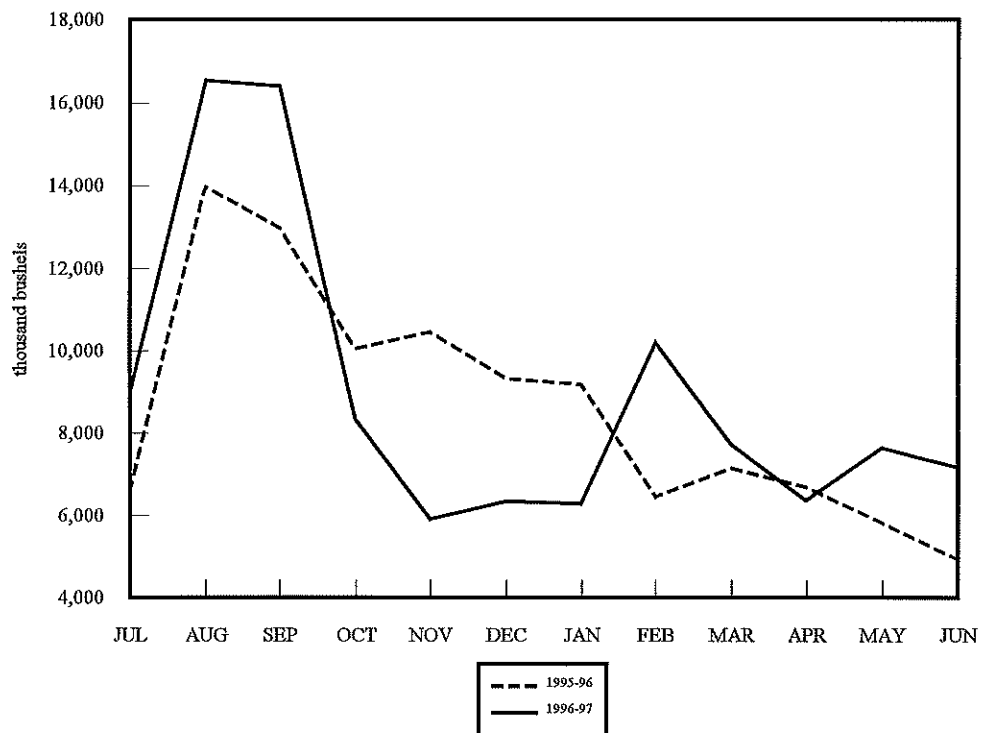
## BARLEY SHIPMENTS

1988-89 to 1996-97



## BARLEY SHIPMENTS

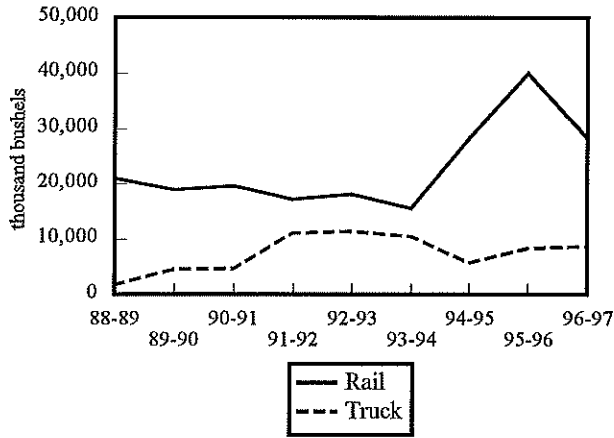
By Month, 1995-96 to 1996-97



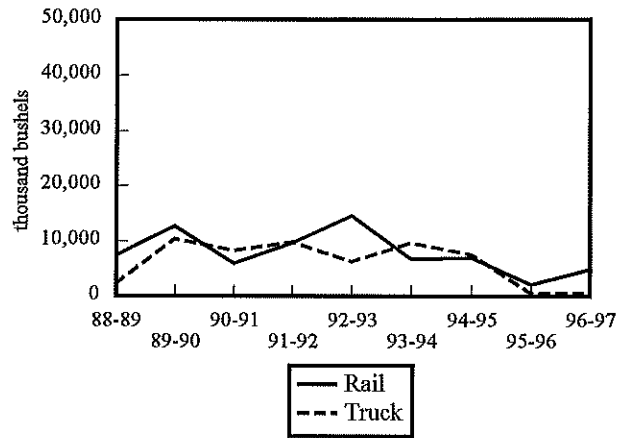
**NORTH DAKOTA BARLEY SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION**  
thousand bu.

YEAR	Minneapolis - St. Paul		Duluth - Superior		Midland/ Southwest		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	20,908 92%	1,782 8%	7,395 76%	2,340 24%	11,566 93%	920 7%	36,599 77%	11,204 23%	76,467 82%	16,248 18%
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%

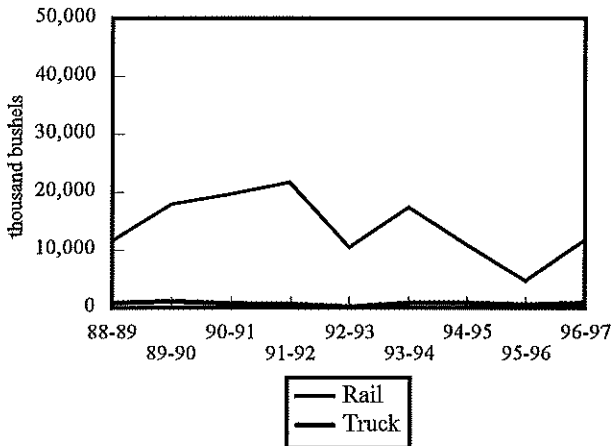
**BARLEY TO MINNEAPOLIS**  
1988-89 to 1996-97



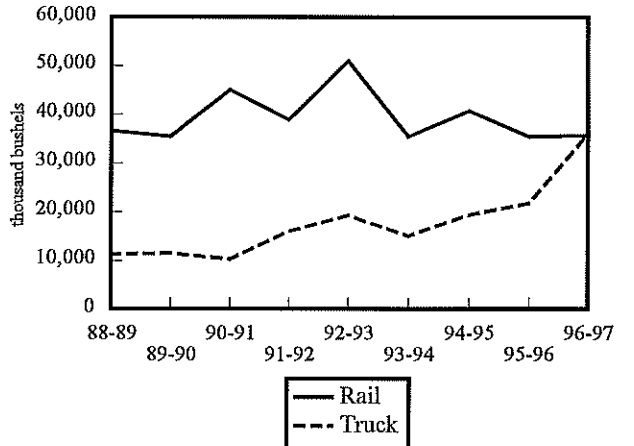
**BARLEY TO DULUTH-SUPERIOR**  
1988-89 to 1996-97



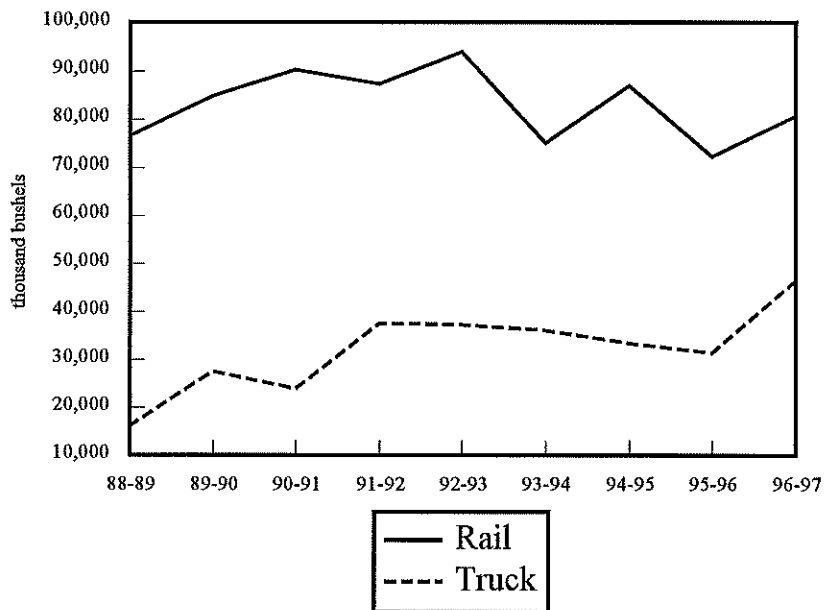
**BARLEY TO MIDLAND/SOUTHWEST**  
1988-89 to 1996-97



**BARLEY TO MISCELLANEOUS MARKETS**  
1988-89 to 1996-97



**BARLEY SHIPMENTS**  
1988-89 to 1996-97



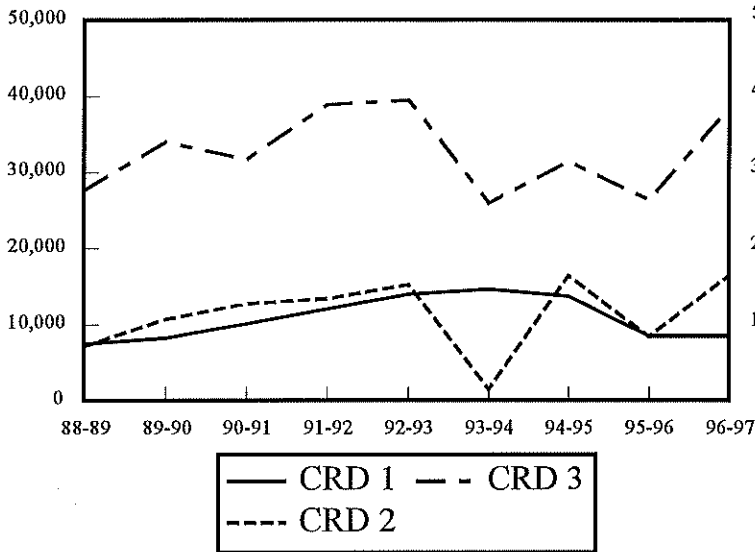
**NORTH DAKOTA BARLEY SHIPMENTS  
BY CROP REPORTING DISTRICT ORIGIN**  
thousand bu.

YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	7,472 8%	7,135 8%	27,618 30%	413 0%	10,072 11%	33,502 36%	535 1%	211 0%	5,752 6%	92,710 100%
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%

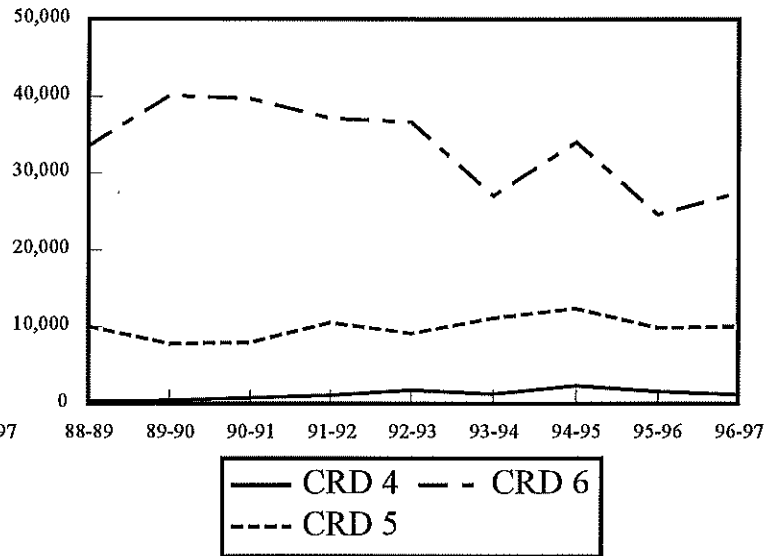


# BARLEY SHIPMENTS BY CROP REPORTING DISTRICT

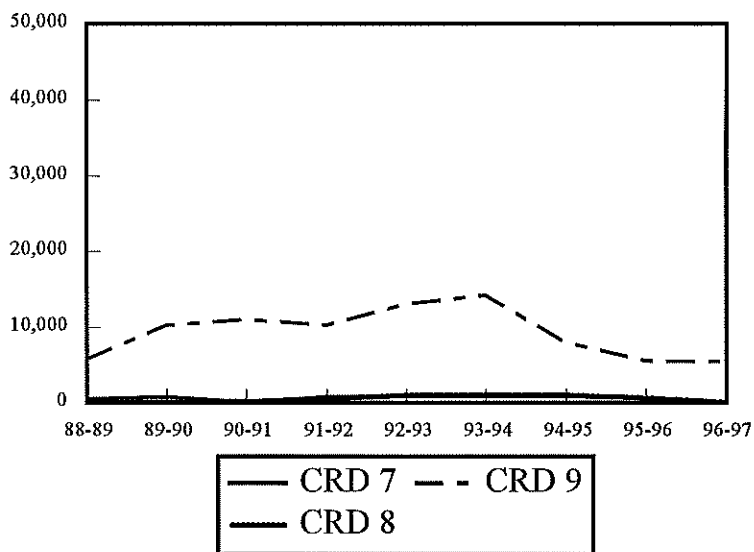
NORTHERN CROP REPORTING DISTRICTS  
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS  
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS  
(thousand bushels)







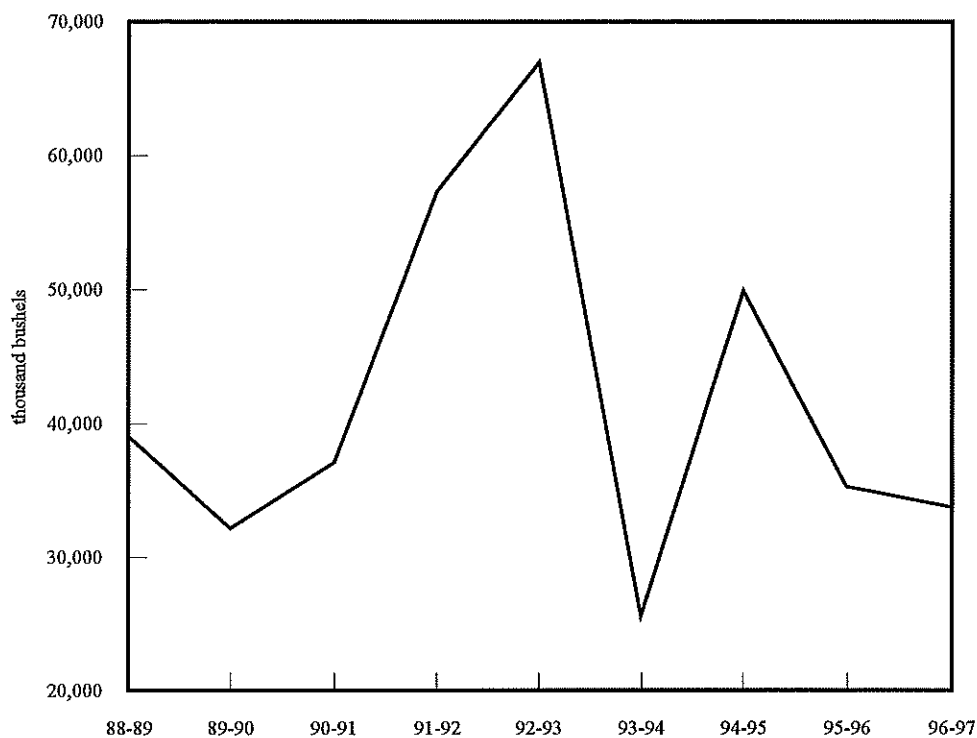
**NORTH DAKOTA SUNFLOWER SHIPMENTS  
BY DESTINATION  
thousand bu.**

<b>YEAR</b>	<b>Minneapolis - St. Paul</b>	<b>Duluth - Superior</b>	<b>North Dakota</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>2,496</b> 6%	<b>105</b> 0%	<b>20,834</b> 53%	<b>15,619</b> 40%	<b>39,056</b> 100%
<b>1989-90</b>	<b>2,219</b> 7%	<b>433</b> 1%	<b>20,964</b> 65%	<b>8,558</b> 27%	<b>32,174</b> 100%
<b>1990-91</b>	<b>4,264</b> 11%	<b>716</b> 2%	<b>20,866</b> 56%	<b>11,240</b> 30%	<b>37,086</b> 100%
<b>1991-92</b>	<b>4,050</b> 7%	<b>1,157</b> 2%	<b>33,428</b> 58%	<b>18,720</b> 33%	<b>57,364</b> 100%
<b>1992-93</b>	<b>4,367</b> 7%	<b>845</b> 1%	<b>47,059</b> 70%	<b>14,964</b> 22%	<b>66,965</b> 100%
<b>1993-94</b>	<b>2,091</b> 8%	<b>38</b> 0%	<b>16,721</b> 65%	<b>6,750</b> 26%	<b>25,600</b> 100%
<b>1994-95</b>	<b>2,619</b> 5%	<b>2,774</b> 6%	<b>32,725</b> 66%	<b>10,668</b> 22%	<b>49,921</b> 100%
<b>1995-96</b>	<b>1,729</b> 5%	<b>2,418</b> 7%	<b>24,119</b> 68%	<b>7,000</b> 20%	<b>35,266</b> 100%
<b>1996-97</b>	<b>1,553</b> 5%	<b>108</b> 0%	<b>27,102</b> 80%	<b>4,994</b> 15%	<b>33,757</b>

<sup>a</sup>Miscellaneous markets for sunflower in 1995-96 include Other Minnesota and Wisconsin destinations 1%, Midland/Southwest markets 2%, Pacific Northwest destinations 1%, and all other markets 14%.

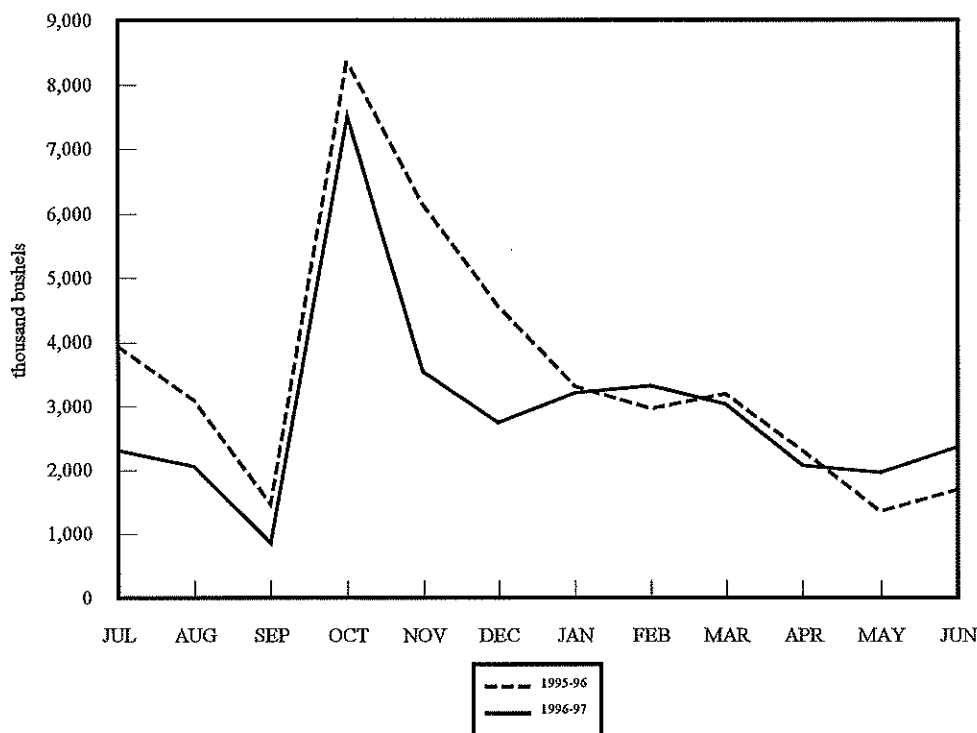
## SUNFLOWER SHIPMENTS

1988-89 to 1996-97



## SUNFLOWER SHIPMENTS

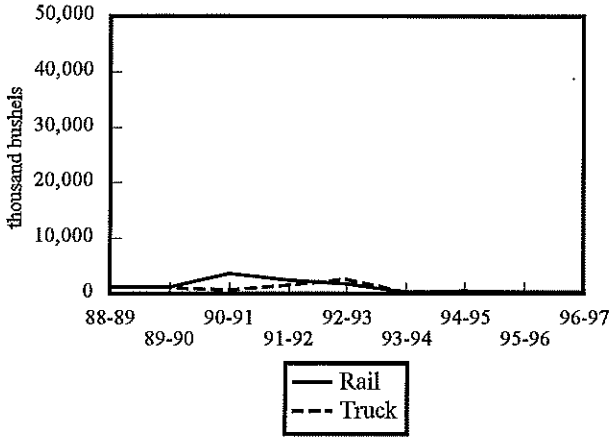
By Month, 1995-96 to 1996-97



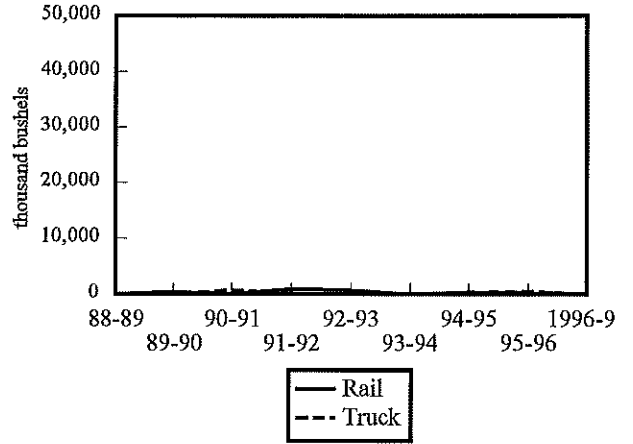
**NORTH DAKOTA SUNFLOWER SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION  
thousand bu.**

YEAR	MINNEAPOLIS - ST. PAUL		DULUTH - SUPERIOR		NORTH DAKOTA		MISC. MARKETS		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Trucks
1988-89	1,227 49%	1,269 51%	70 67%	35 33%	4,306 21%	16,529 79%	6,942 44%	8,678 56%	12,545 32%	26,510 68%
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%

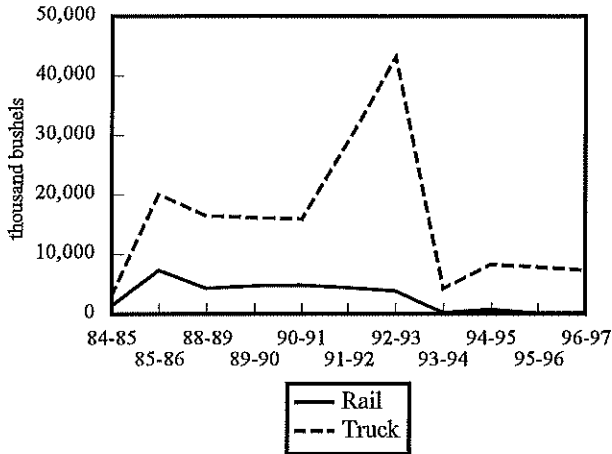
SUNFLOWER TO MINNEAPOLIS  
1988-89 to 1996-97



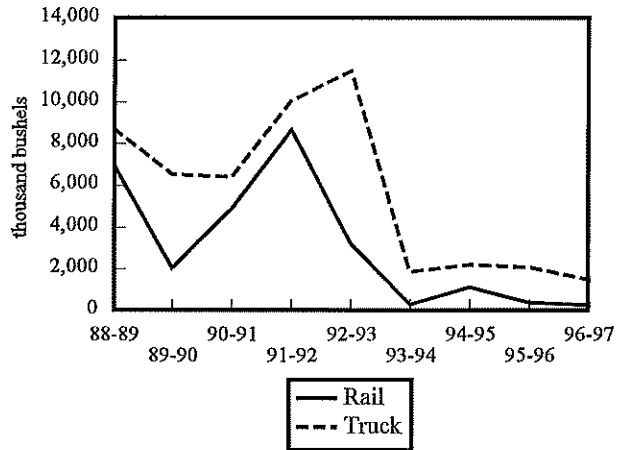
SUNFLOWER TO DULUTH-SUPERIOR  
1988-89 to 1996-97



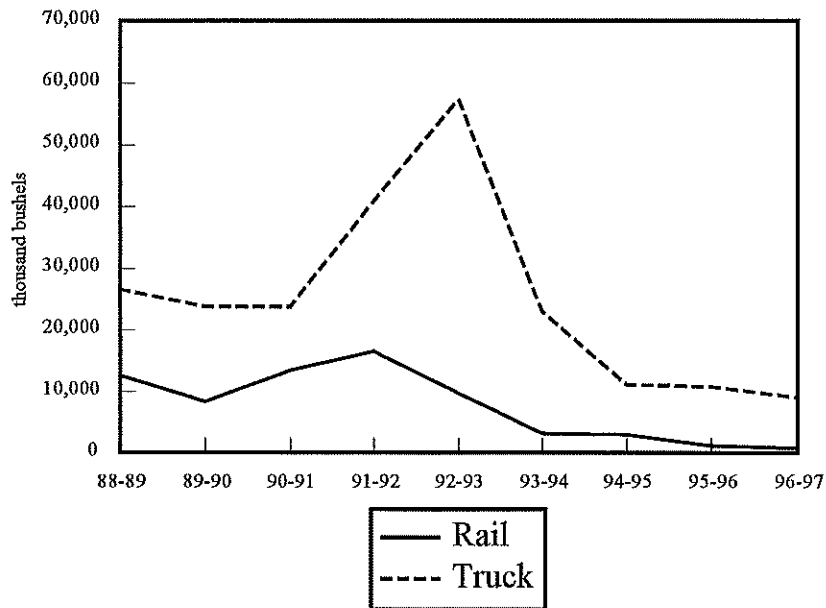
SUNFLOWER TO NORTH DAKOTA  
1988-89 to 1996-97



SUNFLOWER TO MISCELLANEOUS MARKETS  
1988-89 to 1996-97

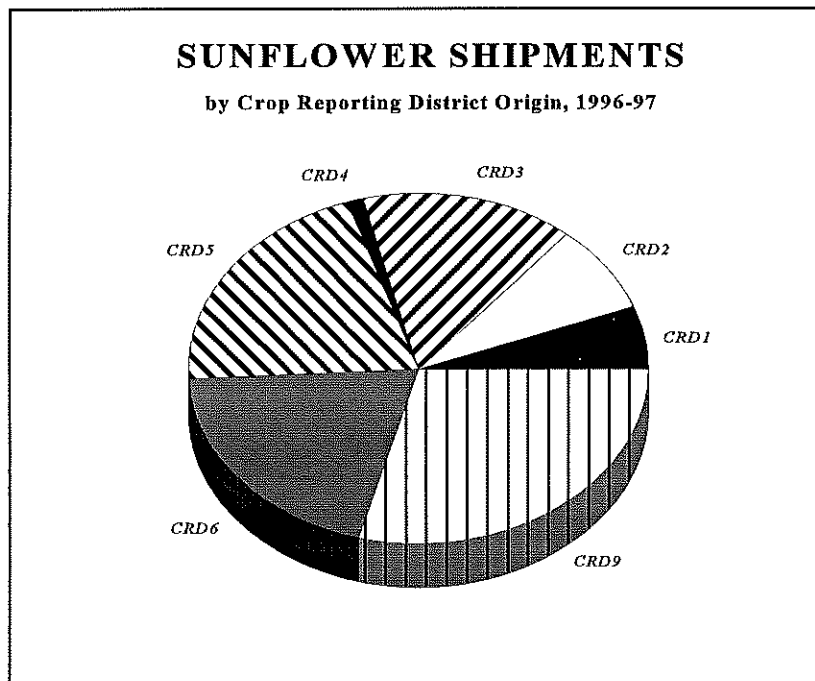


SUNFLOWER SHIPMENTS  
1988-89 to 1996-97



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

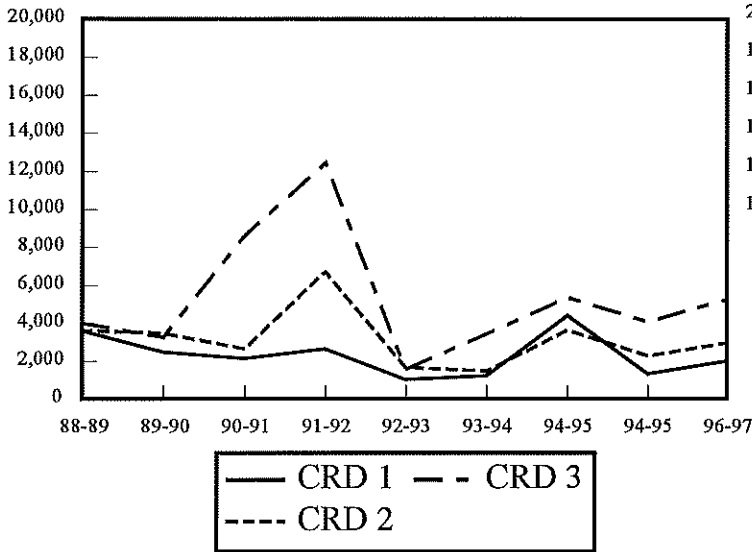
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	3,608 9%	3,631 9%	3,983 10%	1,554 4%	7,228 19%	11,054 28%	1,076 3%	1,019 3%	5,899 15%	39,052 100%
1989-90	2,487 8%	3,466 11%	3,258 10%	810 3%	6,560 20%	7,460 23%	308 1%	613 2%	7,212 22%	32,174 100%
1990-91	2,146 6%	2,648 7%	8,634 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%



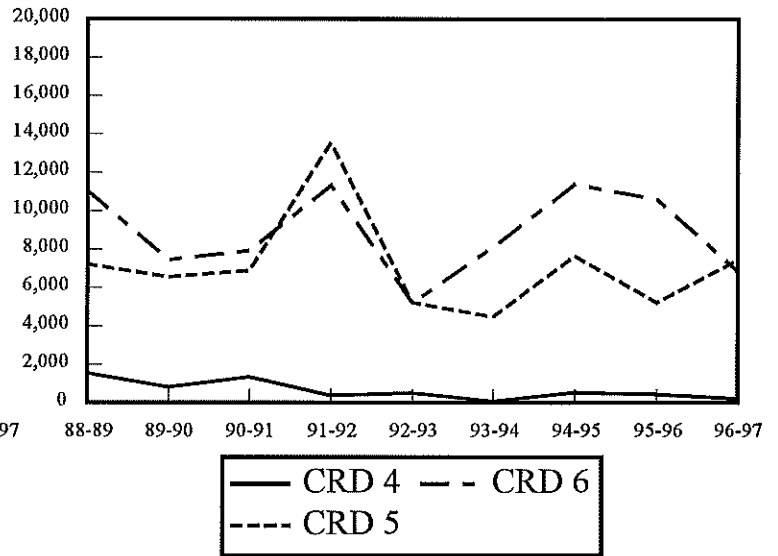


# SUNFLOWER SHIPMENTS BY CROP REPORTING DISTRICT

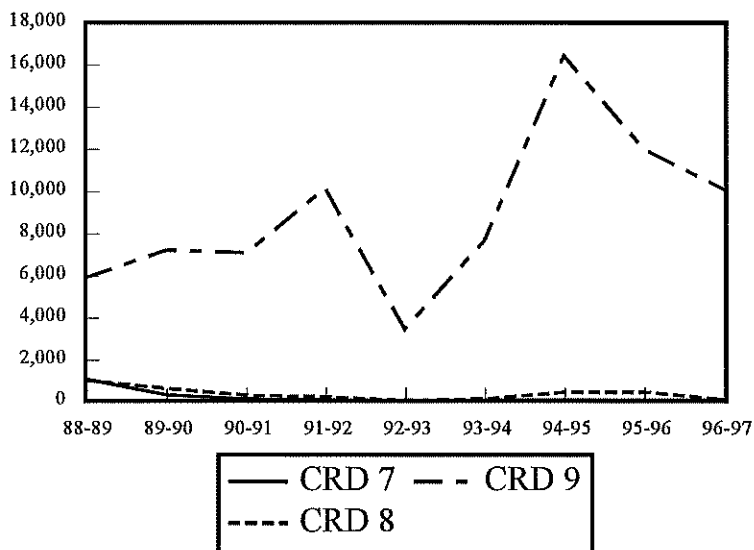
NORTHERN CROP REPORTING DISTRICTS  
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS  
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS  
(thousand bushels)







***OATS***  
***SHIPMENTS***

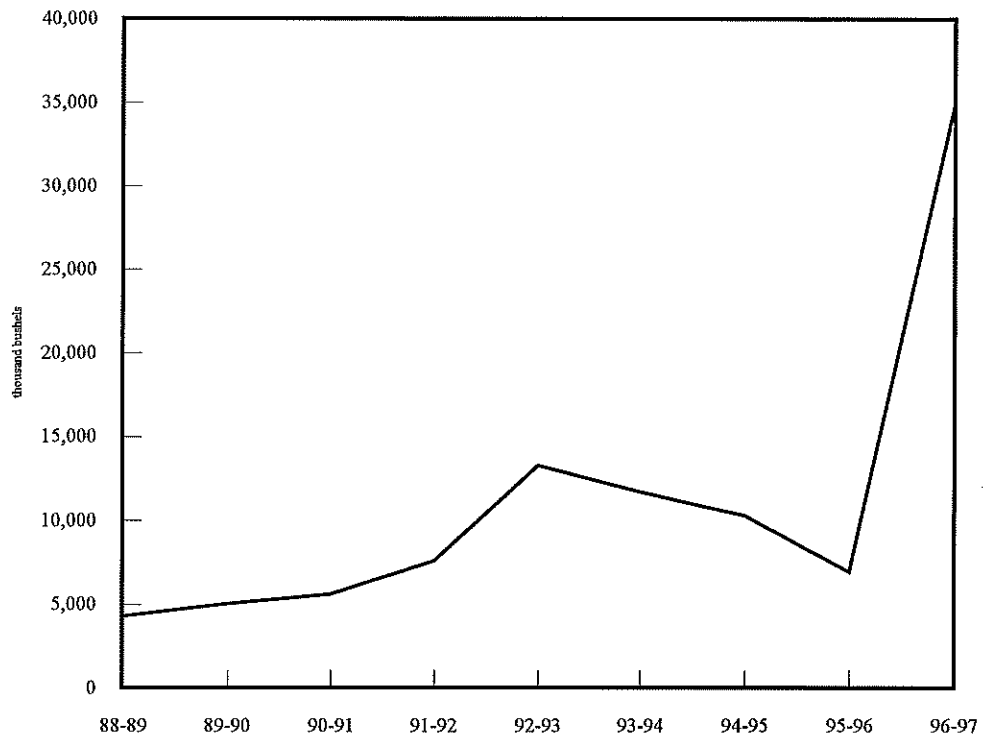
**NORTH DAKOTA OATS SHIPMENTS  
BY DESTINATION  
thousand bu.**

<b>YEAR</b>	<b>Minneapolis - St. Paul</b>	<b>Duluth - Superior</b>	<b>West</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>2,999</b> 70%	<b>83</b> 2%	<b>17</b> 0%	<b>1,197</b> 28%	<b>4,296</b> 100%
<b>1989-90</b>	<b>3,179</b> 63%	<b>36</b> 1%	<b>12</b> 0%	<b>1,788</b> 36%	<b>5,015</b> 100%
<b>1990-91</b>	<b>2,496</b> 45%	<b>45</b> 1%	<b>316</b> 6%	<b>2,744</b> 49%	<b>5,601</b> 100%
<b>1991-92</b>	<b>4,518</b> 59%	<b>146</b> 2%	<b>181</b> 2%	<b>2,754</b> 37%	<b>7,601</b> 100%
<b>1992-93</b>	<b>5,468</b> 41%	<b>284</b> 0%	<b>270</b> 2%	<b>7,505</b> 57%	<b>13,272</b> 100%
<b>1993-94</b>	<b>6,494</b> 56%	<b>206</b> 2%	<b>66</b> 0%	<b>4,909</b> 42%	<b>11,675</b> 100%
<b>1994-95</b>	<b>5,848</b> 57%	<b>105</b> 1%	<b>67</b> 1%	<b>4,242</b> 42%	<b>10,262</b> 100%
<b>1995-96</b>	<b>3,970</b> 57%	<b>189</b> 3%	<b>28</b> 0%	<b>2,779</b> 40%	<b>6,966</b> 100%
<b>1996-97</b>	<b>1,552</b> 4%	<b>108</b> 0%	<b>89</b> 0%	<b>33,186</b> 95%	<b>34,935</b> 100%

Miscellaneous markets include shipments to North Dakota destinations 1%, Midland/Southwest destinations 24%, other Minnesota/Wisconsin destinations 9%, and all other markets 8%.

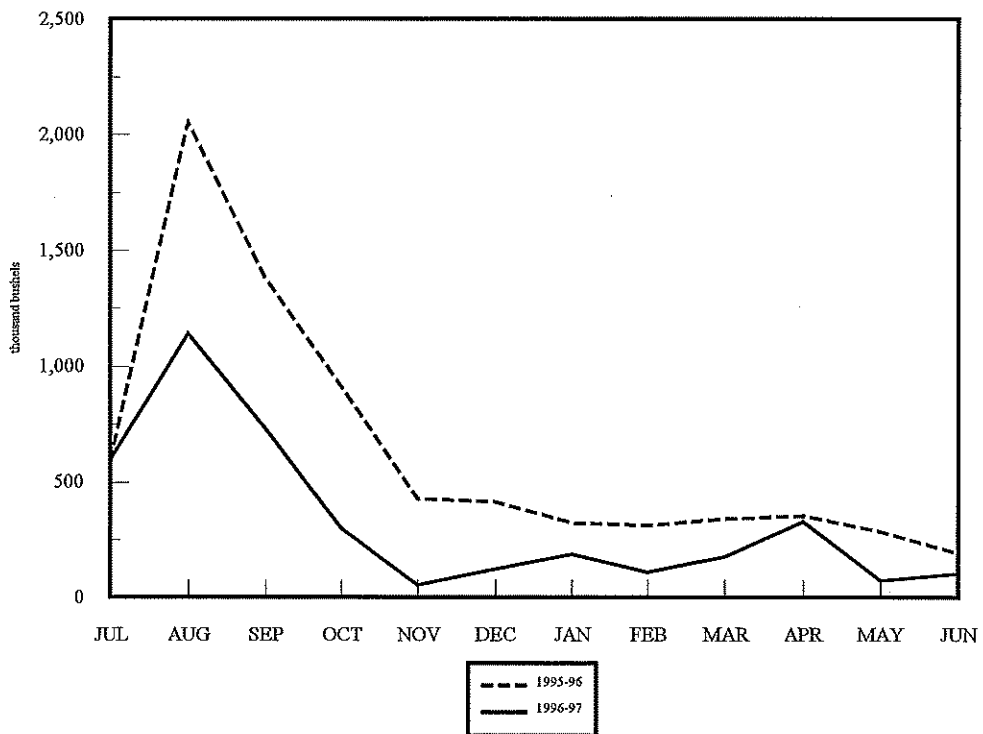
## OATS SHIPMENTS

1988-89 to 1996-97



## OATS SHIPMENTS

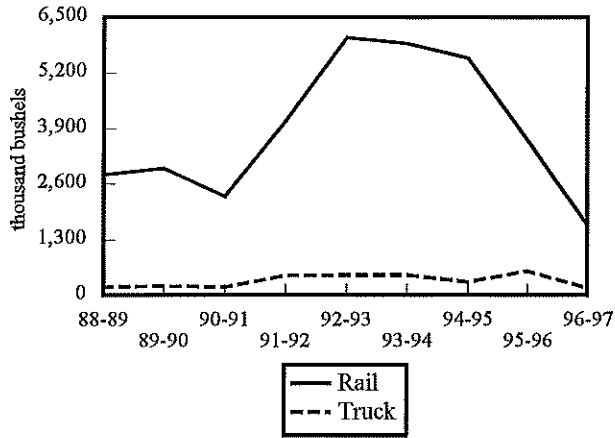
by Month, 1995-96 to 1996-97



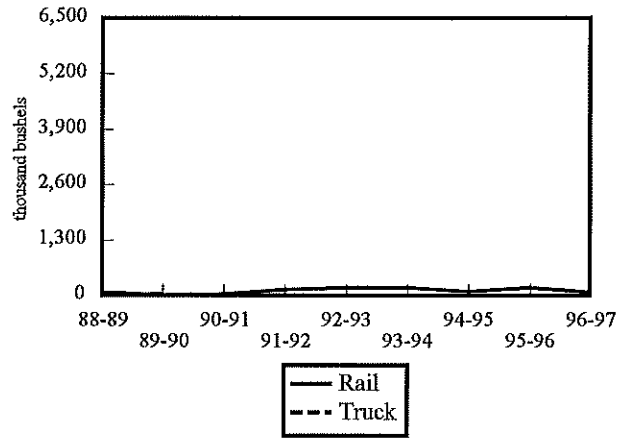
**NORTH DAKOTA OATS SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION**  
thousand bu.

YEAR	Minneapolis - St. Paul		Duluth - Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	2,810 94%	189 6%	82 98%	1 2%	8 51%	8 49%	736 61%	461 39%	3,637 85%	660 15%
1989-90	2,959 93%	220 7%	5 13%	31 87%	9 73%	3 27%	511 29%	1,277 71%	3,484 69%	1,531 31%
1990-91	2,306 92%	191 8%	36 80%	9 20%	240 76%	75 24%	924 34%	1,820 66%	3,506 63%	2,095 37%
1991-92	4,055 90%	461 10%	140 96%	5 4%	149 82%	31 8%	1,411 51%	1,341 49%	5,758 76%	1,842 24%
1992-93	6,021 93%	473 7%	195 95%	11 5%	39 59%	27 41%	2,596 53%	2,313 47%	9,851 78%	2,824 22%
1993-94	5,893 93%	468 7%	195 95%	11 5%	20 43%	26 57%	2,596 54%	2,216 46%	8,705 76%	2,722 24%
1994-95	5,546 95%	302 5%	98 93%	6 7%	52 78%	15 22%	2,564 60%	1,677 40%	8,261 81%	2,001 19%
1995-96	3,646 87%	561 13%	181 95%	10 5%	24 86%	3 14%	1,678 53%	1,474 47%	5,529 73%	2,048 27%
1996-97	1,637 90%	176 10%	82 100%	0 0%	5 100%	0 0%	1,170 58%	847 42%	8,106 89%	1,023 11%

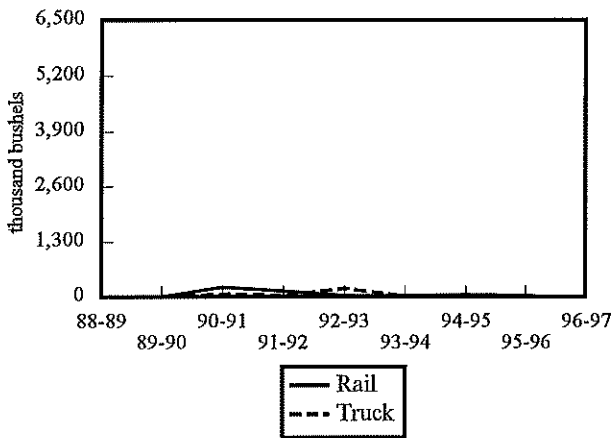
OATS TO MINNEAPOLIS  
1988-89 to 1996-97



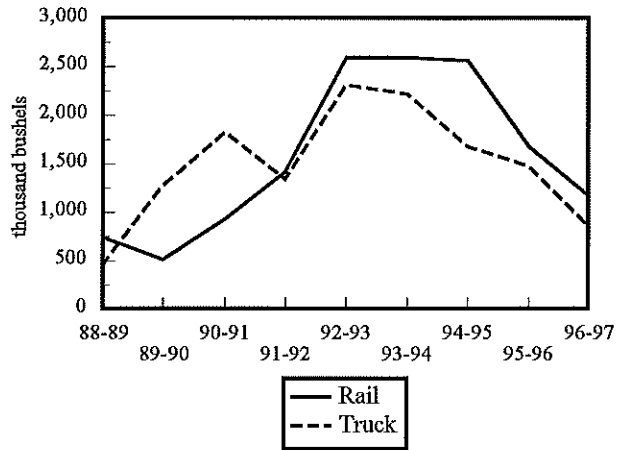
OATS TO DULUTH-SUPERIOR  
1988-89 to 1996-97



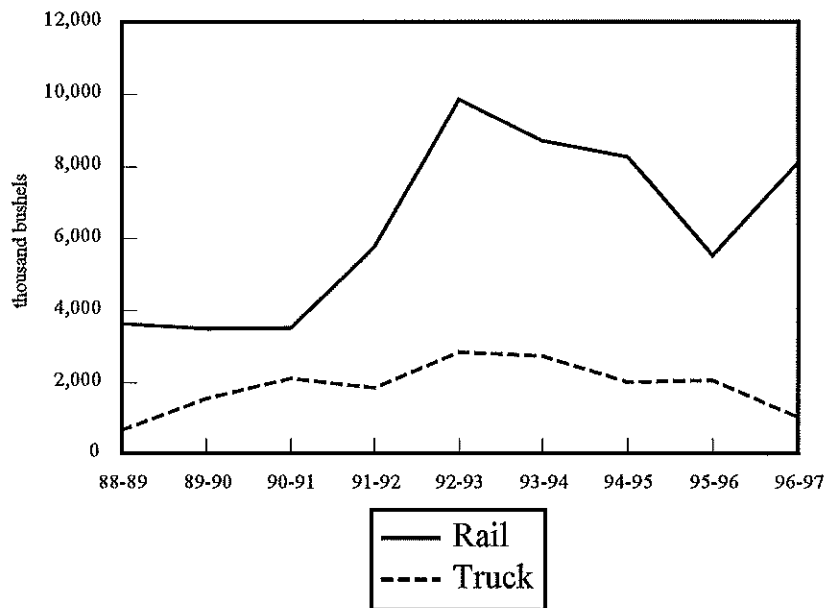
OATS TO WEST  
1988-89 to 1996-97



OATS TO MISCELLANEOUS MARKETS  
1988-89 to 1996-97

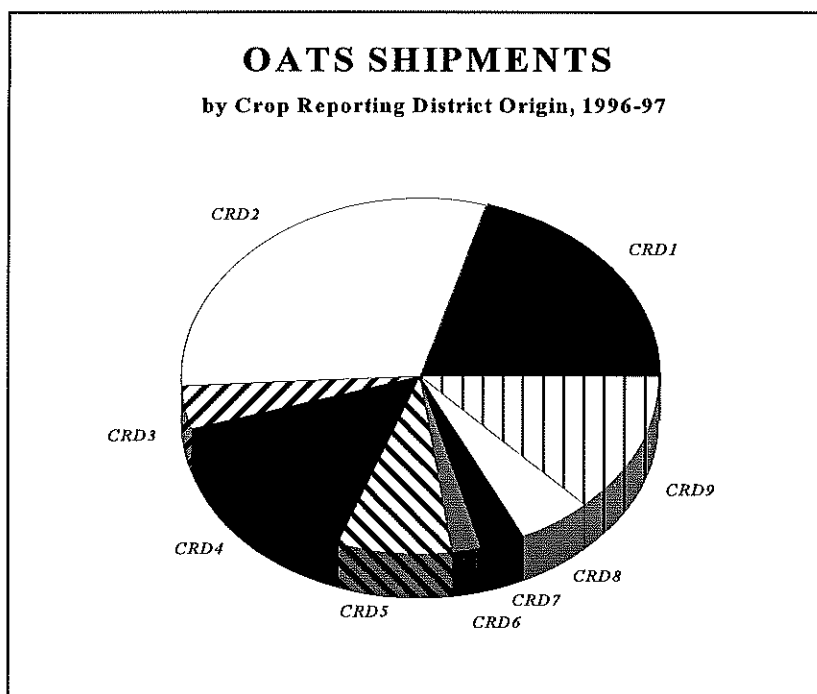


OATS SHIPMENTS  
1988-89 to 1996-97



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

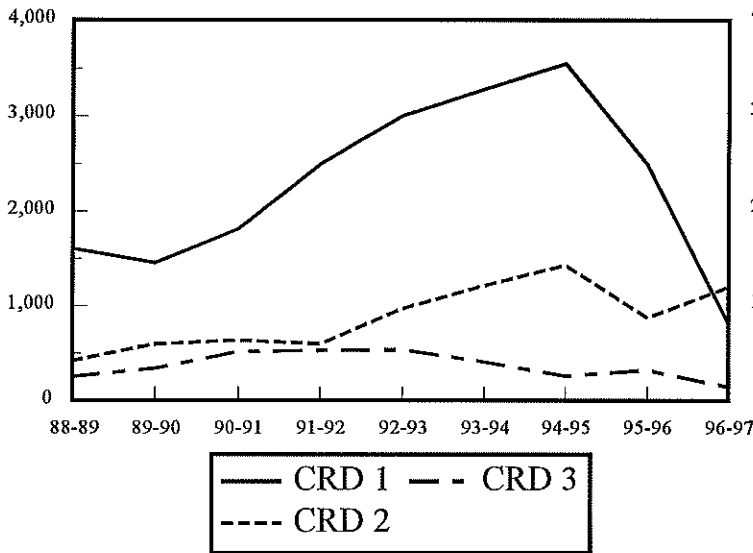
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	1,600 37%	424 10%	255 6%	402 9%	587 14%	158 4%	192 4%	363 8%	313 7%	4,294 100%
1989-90	1,453 29%	600 12%	342 7%	330 7%	409 8%	794 16%	75 1%	240 5%	772 15%	5,015 100%
1990-91	1,809 32%	636 11%	515 9%	605 11%	386 7%	911 16%	52 1%	70 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	815 21%	1,199 31%	144 4%	599 15%	318 8%	63 2%	106 3%	179 5%	497 13%	3,920 100%



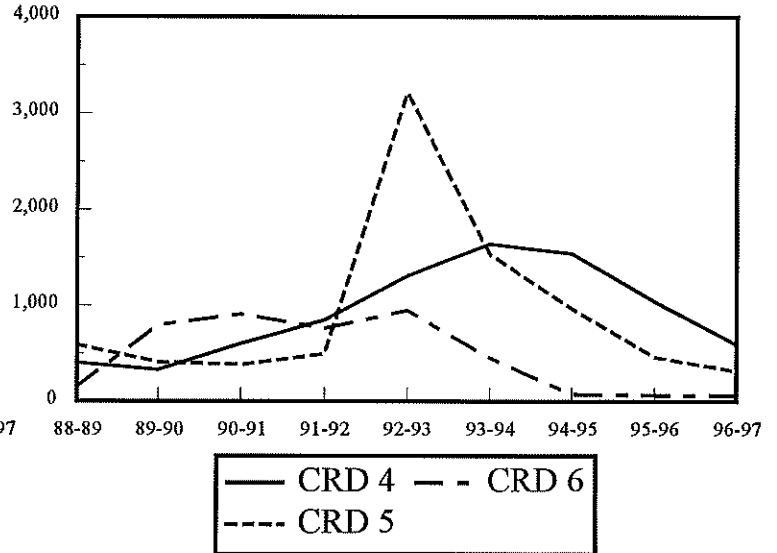


# OATS SHIPMENTS BY CROP REPORTING DISTRICT

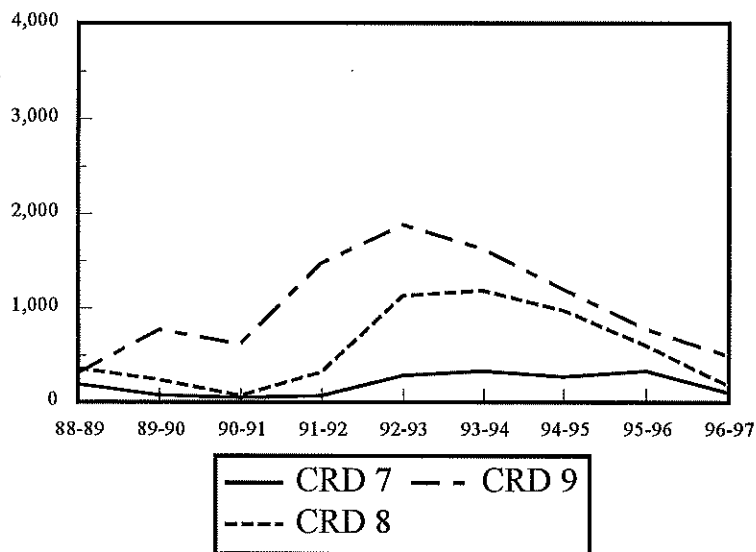
NORTHERN CROP REPORTING DISTRICTS  
(thousand bushels)



CENTRAL CROP REPORTING DISTRICTS  
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS  
(thousand bushels)







***SOYBEAN  
SHIPMENTS***

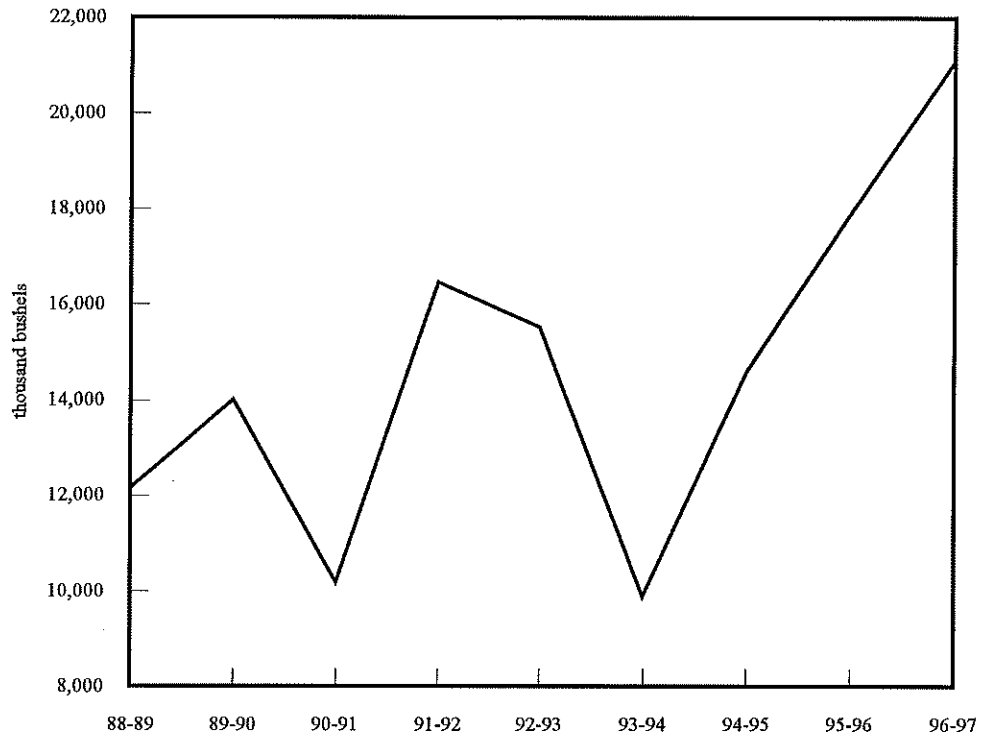
**NORTH DAKOTA SOYBEAN SHIPMENTS  
BY DESTINATION  
thousand bu.**

<b>YEAR</b>	<b>Minneapolis - St. Paul</b>	<b>Duluth - Superior</b>	<b>West</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>2,315</b> 19%	<b>2,347</b> 19%	<b>5,375</b> 44%	<b>2,121</b> 17%	<b>12,160</b> 100%
<b>1989-90</b>	<b>1,819</b> 13%	<b>1,379</b> 10%	<b>6,712</b> 48%	<b>4,105</b> 29%	<b>14,015</b> 100%
<b>1990-91</b>	<b>1,802</b> 18%	<b>1,268</b> 12%	<b>4,001</b> 39%	<b>3,114</b> 31%	<b>10,185</b> 100%
<b>1991-92</b>	<b>3,025</b> 18%	<b>510</b> 3%	<b>7,552</b> 46%	<b>5,374</b> 33%	<b>16,464</b> 100%
<b>1992-93</b>	<b>3,594</b> 23%	<b>354</b> 2%	<b>8,396</b> 54%	<b>3,184</b> 21%	<b>15,528</b> 100%
<b>1993-94</b>	<b>3,198</b> 32%	<b>621</b> 6%	<b>3,669</b> 37%	<b>2,411</b> 25%	<b>9,899</b> 100%
<b>1994-95</b>	<b>2,825</b> 19%	<b>3,110</b> 21%	<b>6,806</b> 47%	<b>1,853</b> 13%	<b>14,594</b> 100%
<b>1995-96</b>	<b>1,588</b> 9%	<b>3,596</b> 20%	<b>9,914</b> 55%	<b>2,768</b> 15%	<b>17,866</b> 100%
<b>1996-97</b>	<b>1,607</b> 8%	<b>8,252</b> 39%	<b>5,809</b> 28%	<b>5,428</b> 26%	<b>21,096</b> 100%

Miscellaneous markets include shipments to other Minnesota/Wisconsin destinations 2%, Midland/Southwest destinations 2%, and all other markets including North Dakota processors 13%.

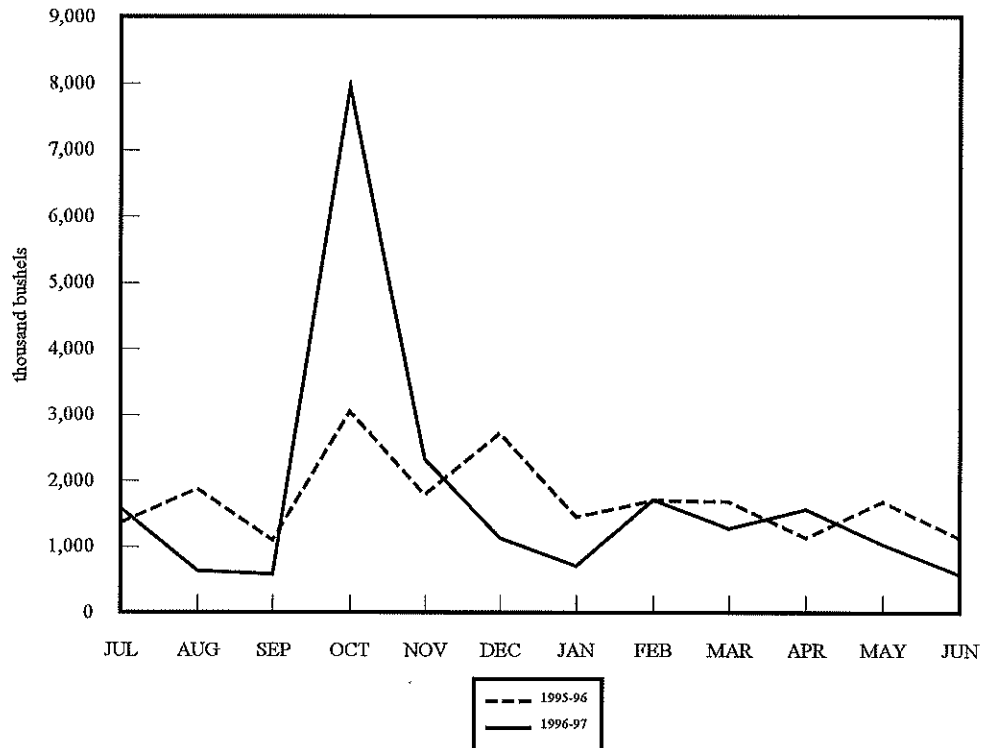
## SOYBEAN SHIPMENTS

1988-89 to 1996-97



## SOYBEAN SHIPMENTS

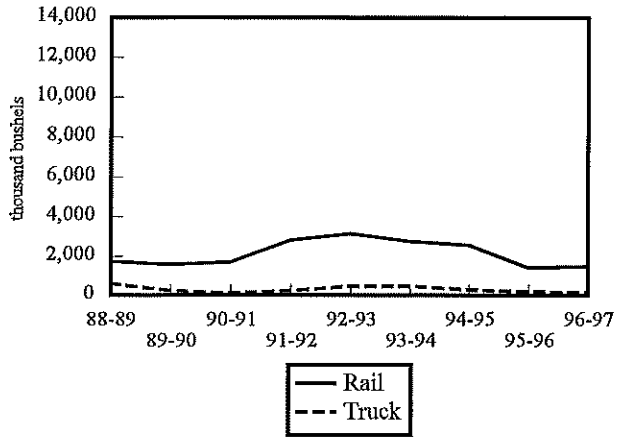
by Month, 1995-96 to 1996-97



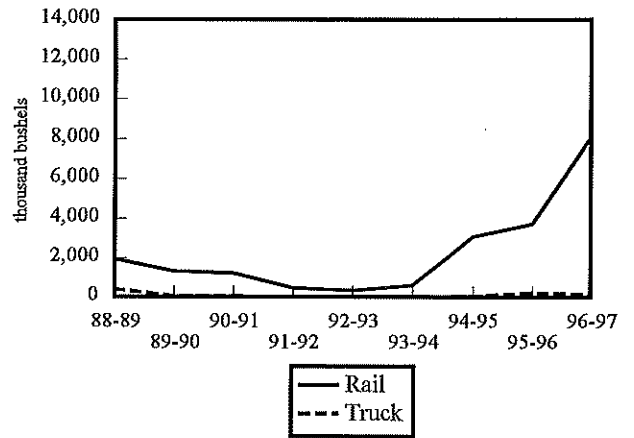
**NORTH DAKOTA SOYBEAN SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION**  
thousand bu.

YEAR	Minneapolis - St. Paul		Duluth - Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	1,732 75%	583 25%	1,931 82%	416 18%	5,162 96%	213 4%	468 22%	1,652 78%	9,294 76%	2,865 24%
1989-90	1,565 86%	254 14%	1,320 96%	60 4%	6,705 100%	7 0%	618 15%	3,486 85%	10,208 73%	3,807 27%
1990-91	1,683 93%	120 7%	1,215 96%	54 4%	3,816 95%	185 5%	772 25%	2,340 75%	7,486 74%	2,699 26%
1991-92	2,782 92%	242 8%	479 94%	31 6%	7,184 95%	367 5%	2,987 56%	2,386 44%	13,434 82%	3,029 18%
1992-93	3,131 87%	463 13%	349 99%	5 1%	8,387 100%	8 0%	2,126 67%	1,058 33%	13,992 90%	1,536 10%
1993-94	2,738 86%	460 14%	614 99%	7 1%	3,667 100%	3 0%	1,855 77%	556 23%	8,874 90%	1,026 10%
1994-95	2,552 90%	273 10%	3,047 98%	63 2%	6,542 96%	264 4%	1,290 70%	562 30%	13,431 92%	1,163 8%
1995-96	1,421 89%	170 11%	3,711 94%	225 6%	11,674 100%	2 0%	2,450 70%	1,050 30%	19,256 93%	1,447 7%
1996-97	1,477 92%	130 8%	8,112 98%	140 2%	5,789 100%	20 0%	3,030 56%	2,399 44%	18,408 87%	2,689 13%

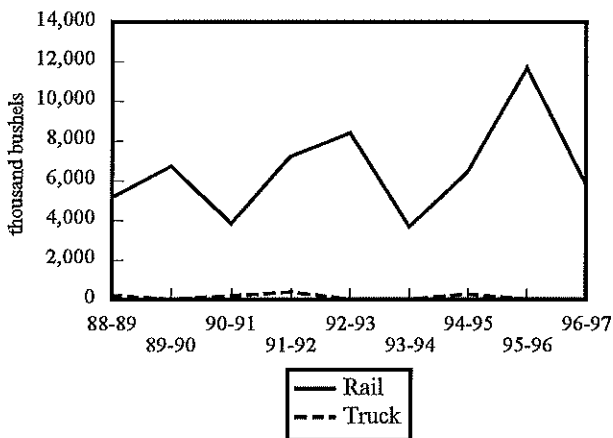
**SOYBEANS TO MINNEAPOLIS**  
1988-89 to 1996-97



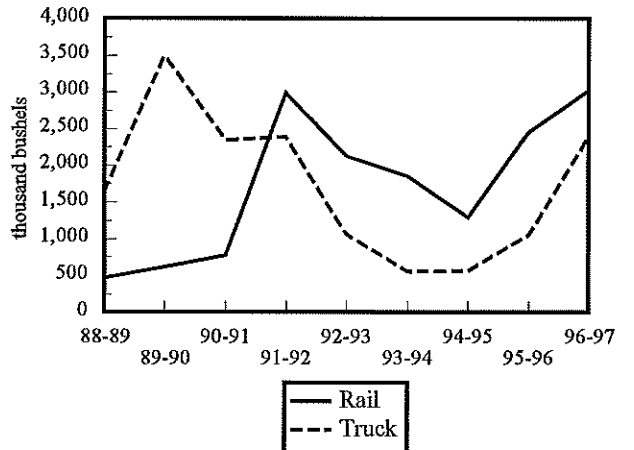
**SOYBEANS TO DULUTH-SUPERIOR**  
1988-89 to 1996-97



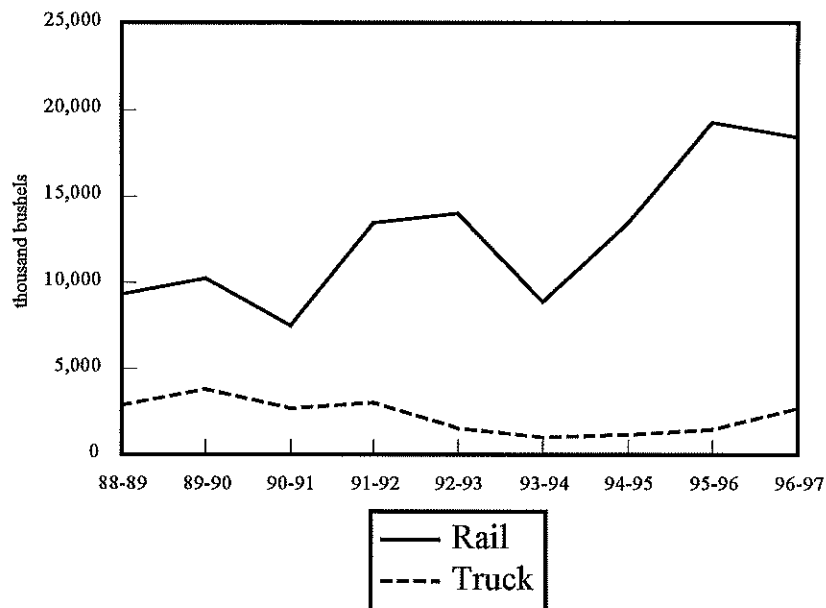
**SOYBEANS TO WEST**  
1988-89 to 1996-97



**SOYBEANS TO MISCELLANEOUS MARKETS**  
1988-89 to 1996-97

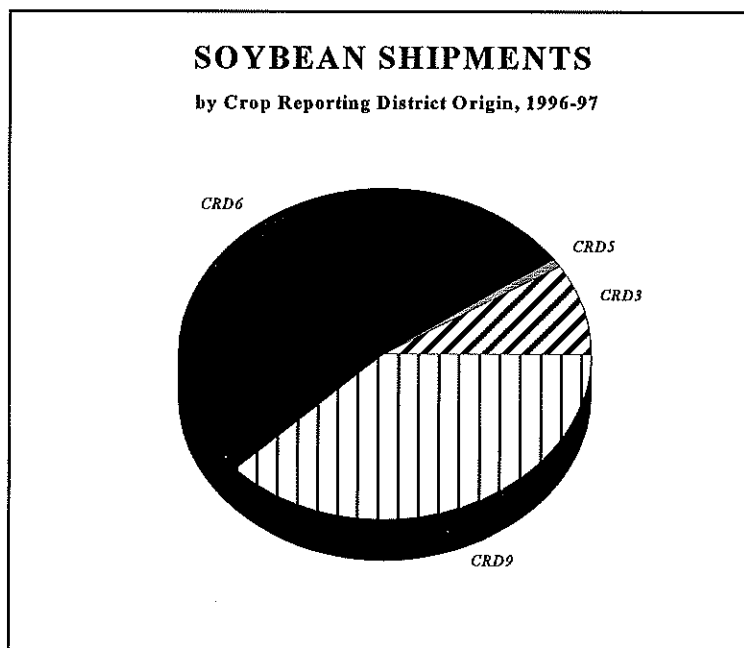


**SOYBEAN SHIPMENTS**  
1988-89 to 1996-97



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

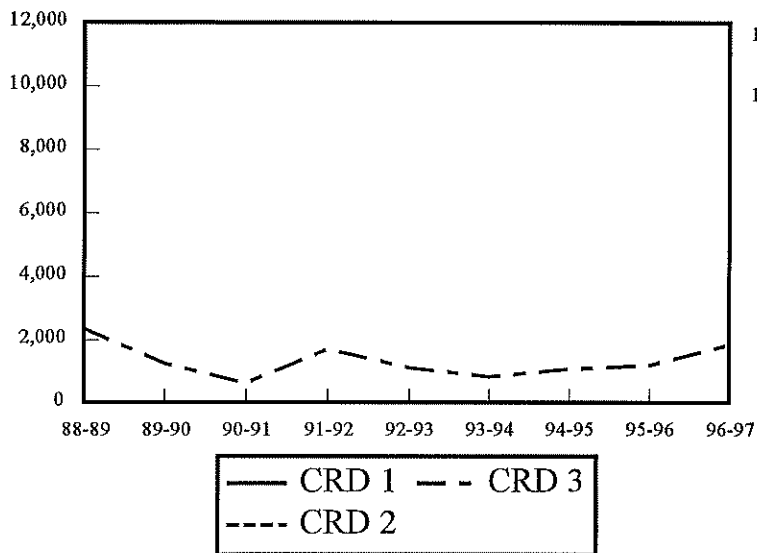
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	7 0%	6 0%	2,331 19%	0 0%	35 0%	5,502 45%	0 0%	18 0%	4,258 35%	12,157 100%
1989-90	0 0%	14 0%	1,251 9%	3 0%	77 1%	6,491 46%	4 0%	3 0%	6,172 44%	14,015 100%
1990-91	3 0%	6 0%	622 6%	29 0%	36 0%	5,369 53%	0 0%	122 1%	3,998 39%	10,185 100%
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%



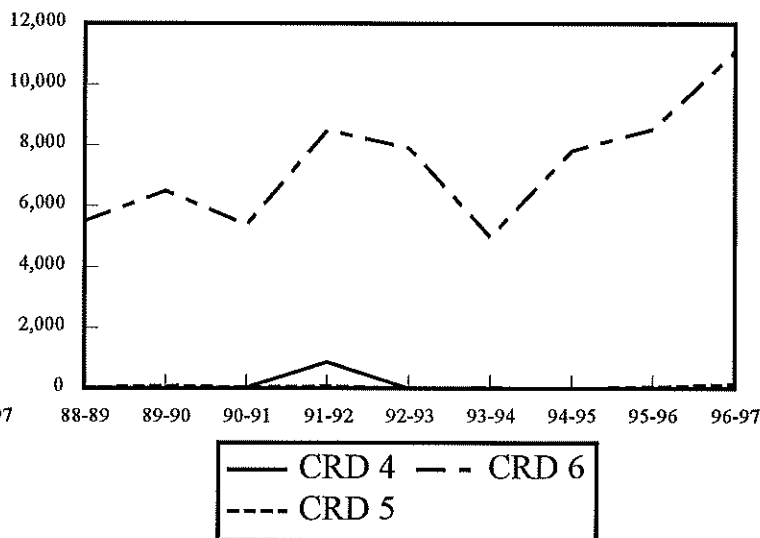


# SOYBEAN SHIPMENTS BY CROP REPORTING DISTRICT

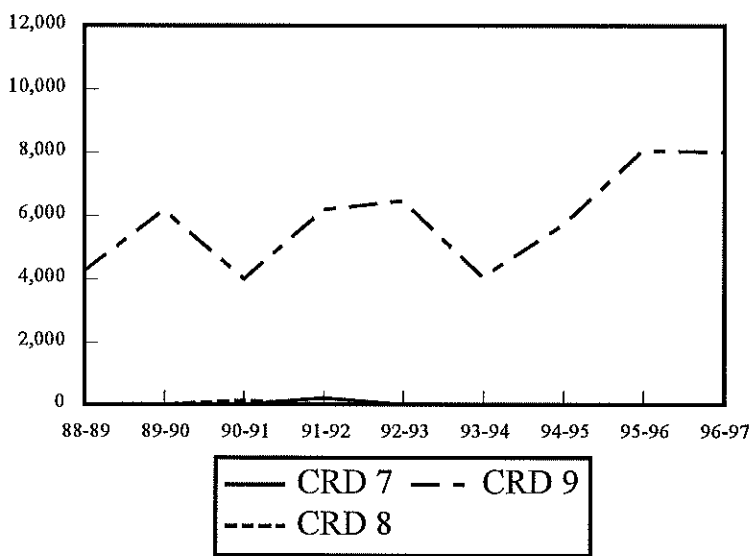
NORTHERN CROP REPORTING DISTRICTS  
(thousand bushels)



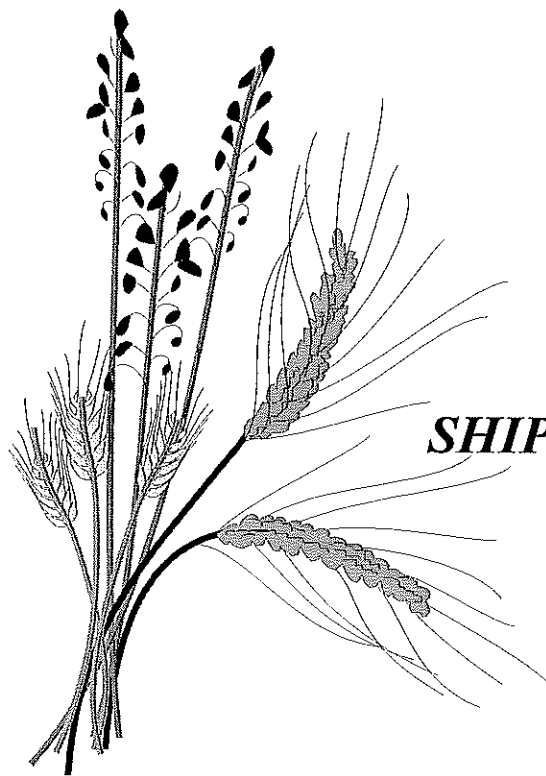
CENTRAL CROP REPORTING DISTRICTS  
(thousand bushels)



SOUTHERN CROP REPORTING DISTRICTS  
(thousand bushels)







***FLAX***  
***SHIPMENTS***

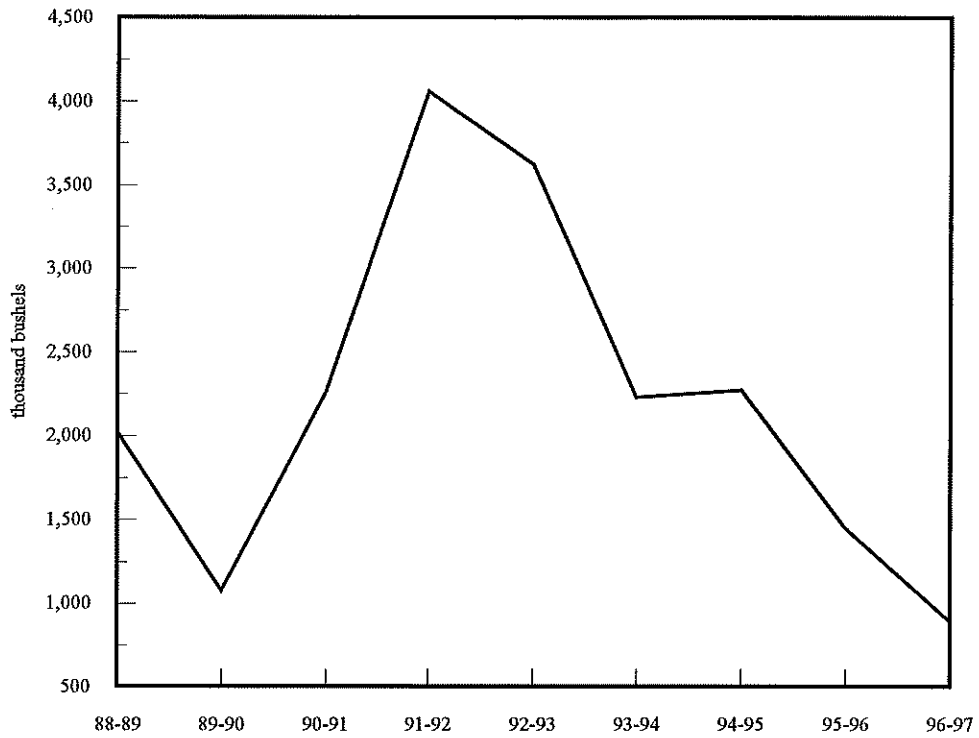
**NORTH DAKOTA FLAXSEED SHIPMENTS  
BY DESTINATION  
thousand bu.**

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

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

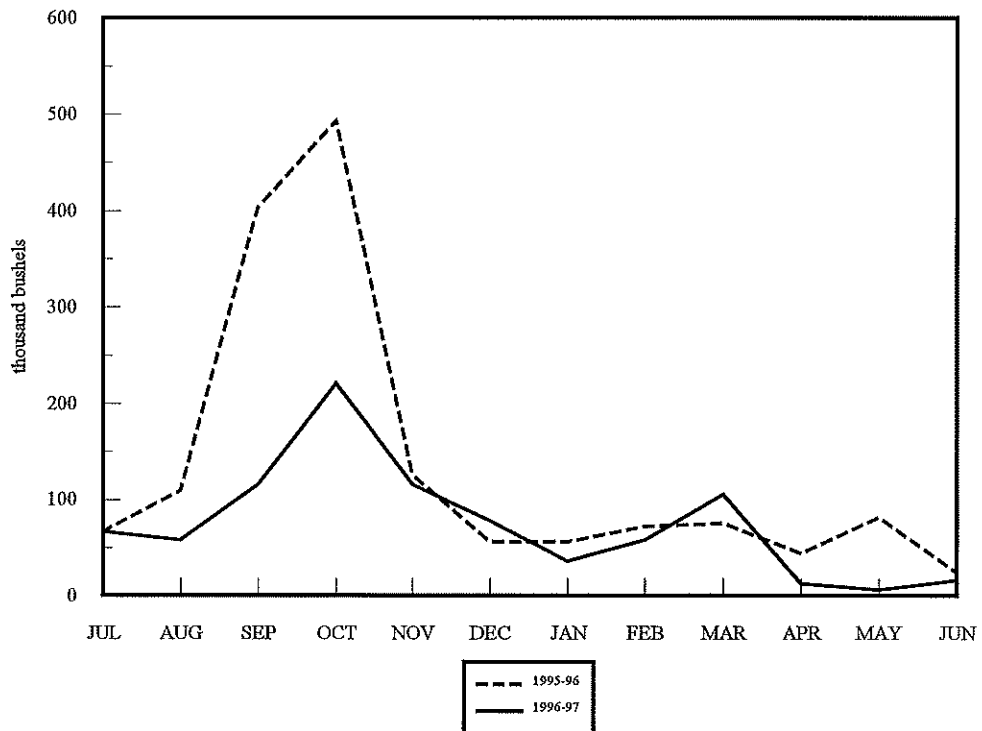
## FLAX SHIPMENTS

1988-89 to 1996-97



## FLAX SHIPMENTS

by Month, 1995-96 to 1996-97

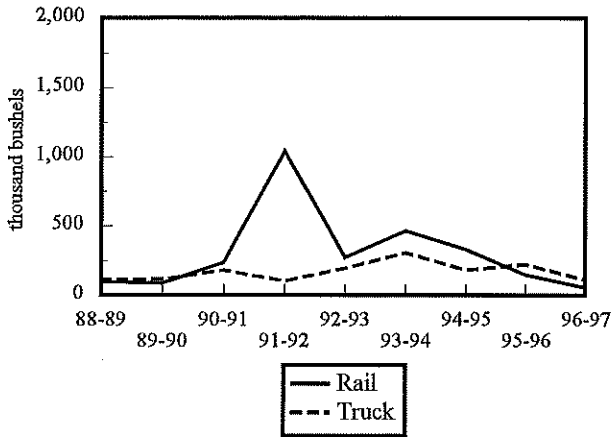


**NORTH DAKOTA FLAXSEED SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION  
thousand bu.**

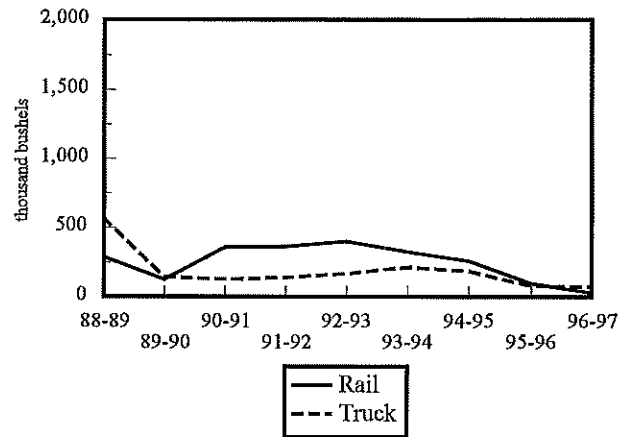
YEAR	Minneapolis- St. Paul		Other Minnesota - Wisconsin		North Dakota		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	101 47%	112 53%	288 34%	561 66%	44 7%	606 93%	125 42%	174 58%	559 28%	1,454 72%
1989-90	92 44%	116 56%	125 46%	144 54%	25 6%	400 94%	61 35%	113 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.

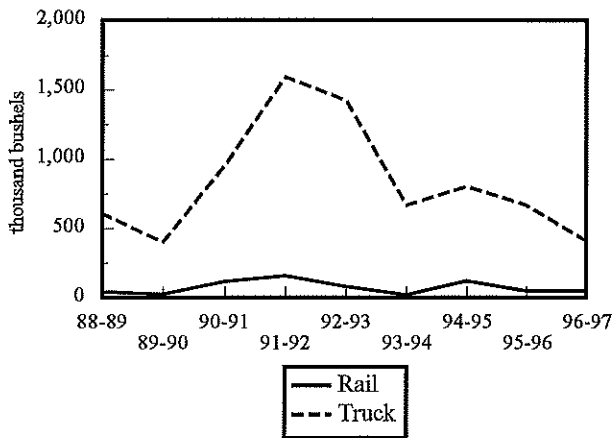
**FLAX TO MINNEAPOLIS**  
1988-89 to 1996-97



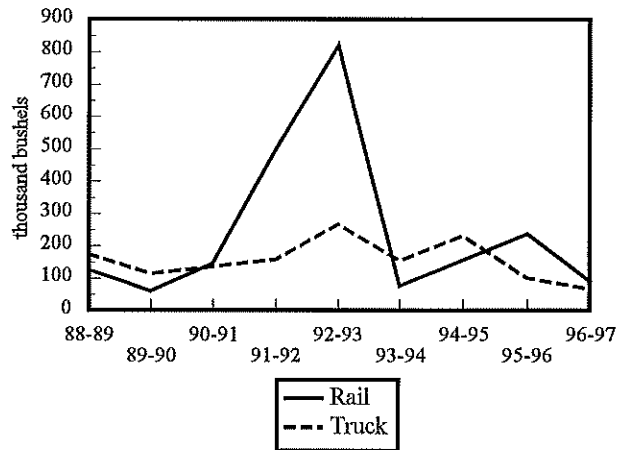
**FLAX TO OTHER MINN/WISC**  
1988-89 to 1996-97



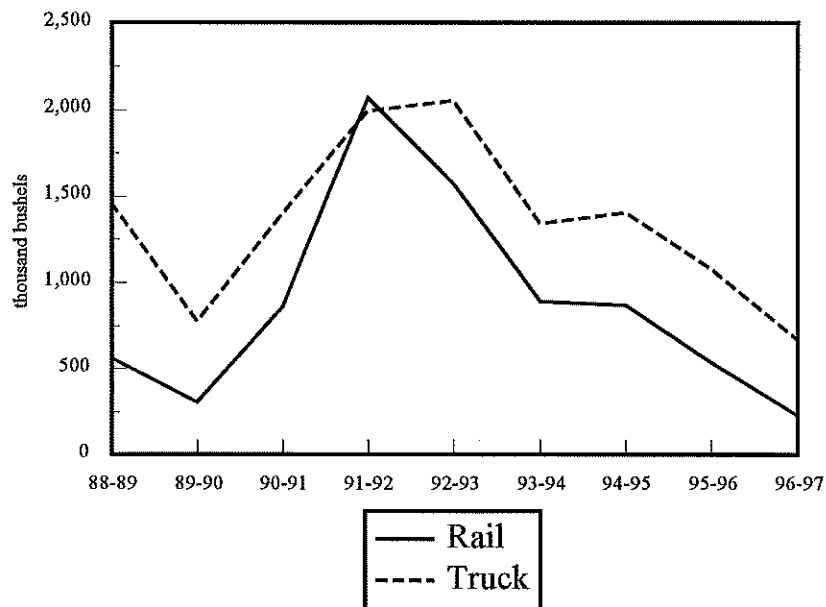
**FLAX TO NORTH DAKOTA**  
1988-89 to 1996-97



**FLAX TO MISCELLANEOUS MARKETS**  
1988-89 to 1996-97

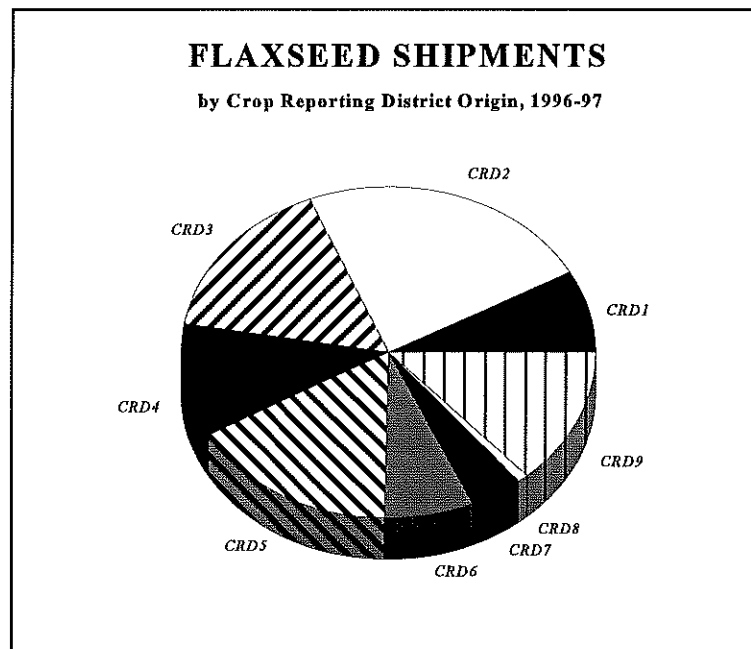


**FLAX SHIPMENTS**  
1988-89 to 1996-97



**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%

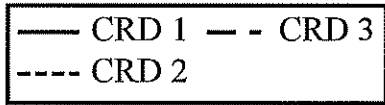
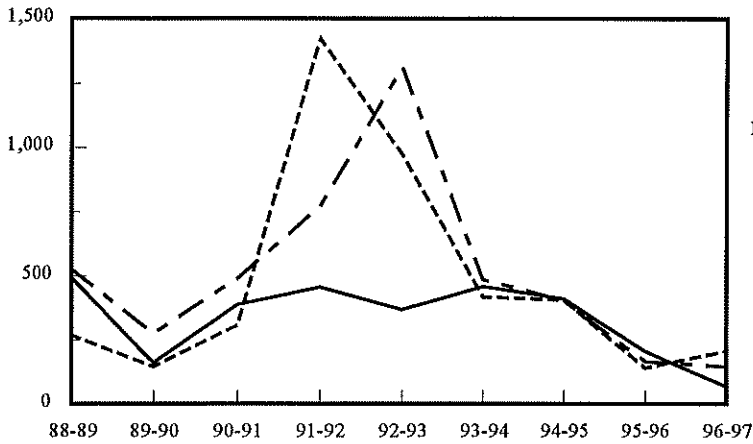




# FLAX SHIPMENTS BY CROP REPORTING DISTRICT

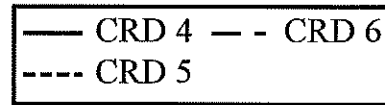
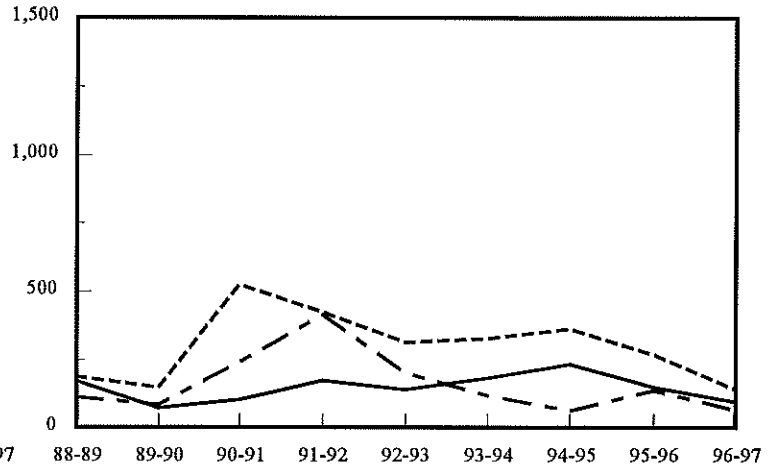
BY NORTHERN CROP REPORTING DISTRICTS

(thousand bushels)



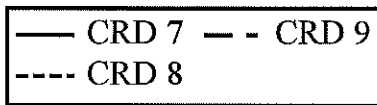
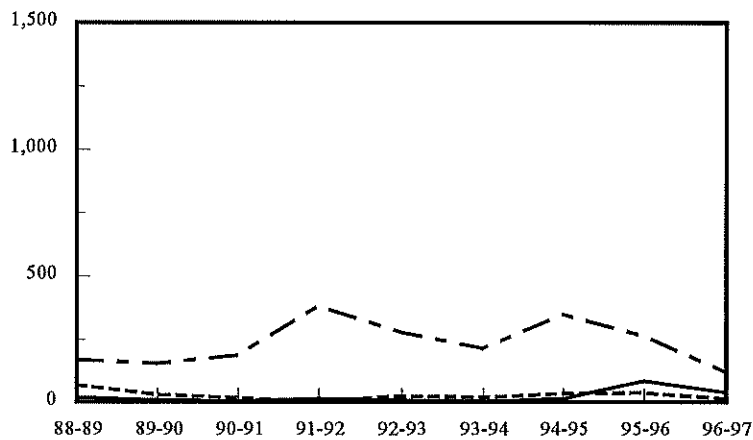
BY CENTRAL CROP REPORTING DISTRICTS

(thousand bushels)

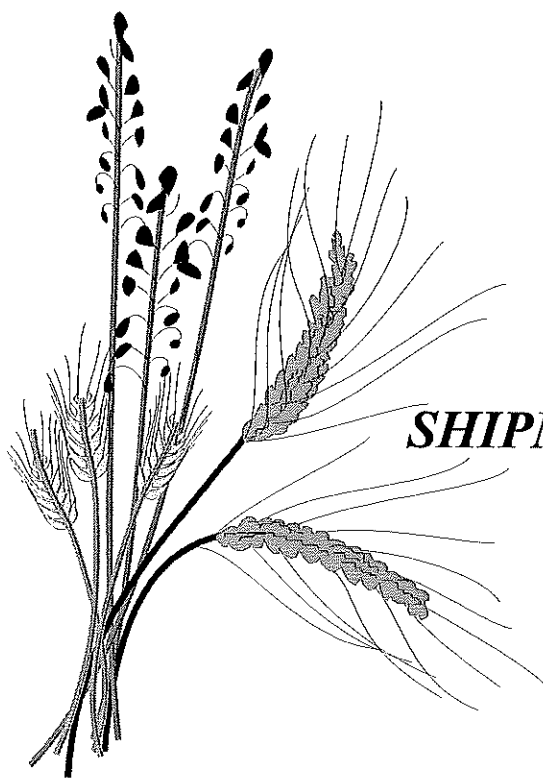


SOUTHERN CROP REPORTING DISTRICTS

(thousand bushels)







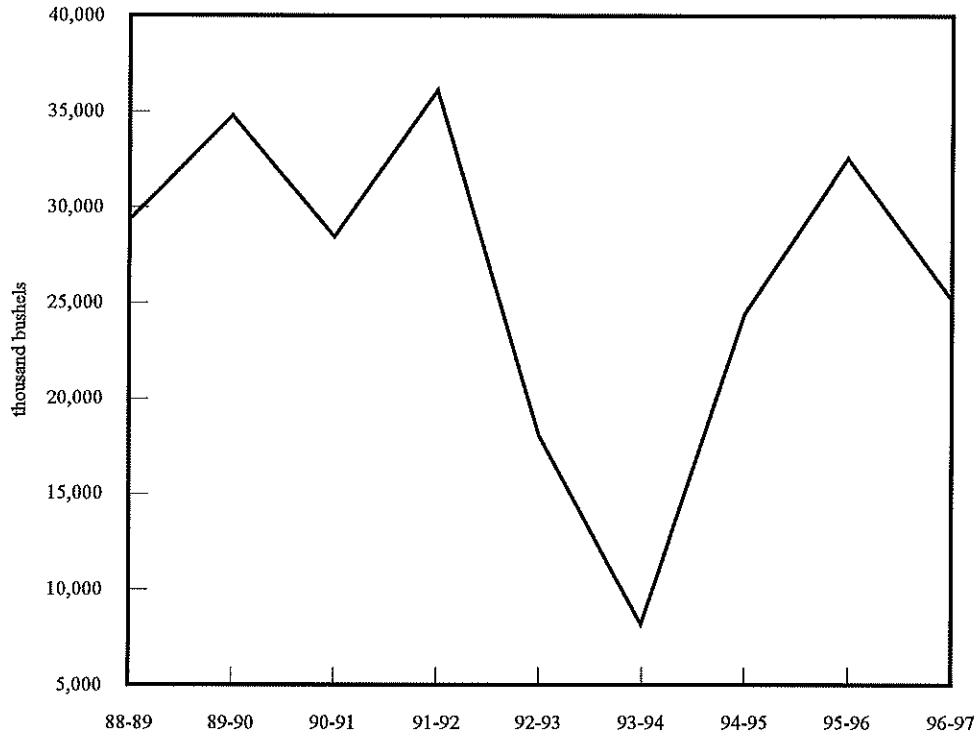
***CORN  
SHIPMENTS***

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

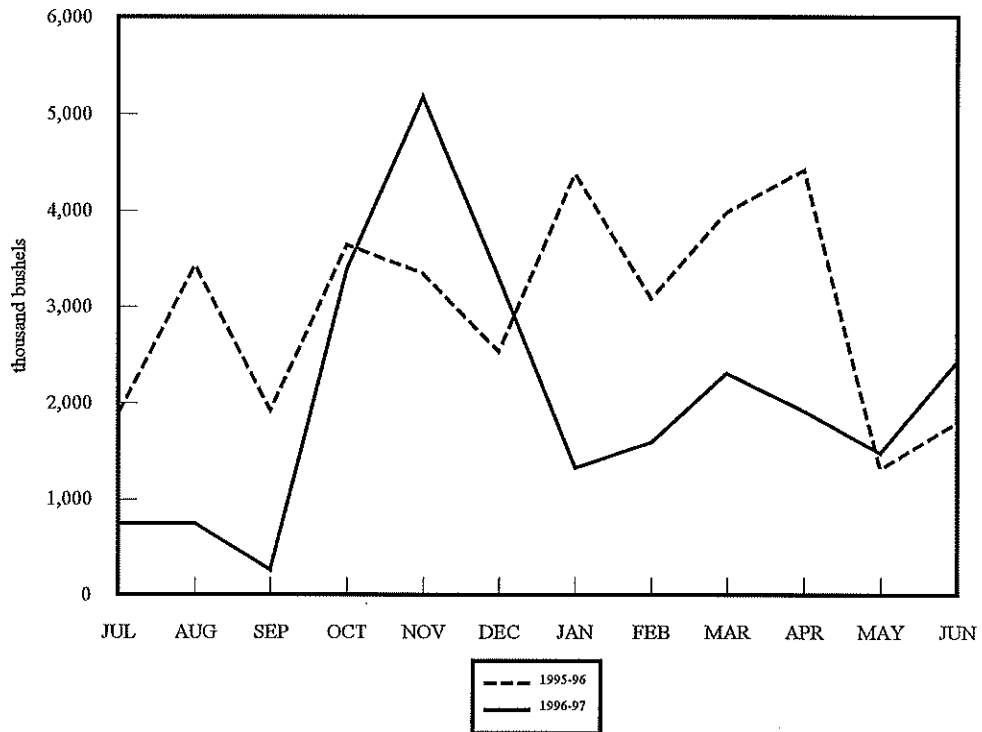
<b>YEAR</b>	<b>Minneapolis - St. Paul</b>	<b>Duluth - Superior</b>	<b>West</b>	<b>Misc. Markets</b>	<b>TOTAL</b>
<b>1988-89</b>	<b>603</b> 2%	<b>1,741</b> 6%	<b>21,861</b> 74%	<b>5,138</b> 18%	<b>29,344</b> 100%
<b>1989-90</b>	<b>900</b> 3%	<b>358</b> 1%	<b>26,133</b> 75%	<b>7,374</b> 21%	<b>34,764</b> 100%
<b>1990-91</b>	<b>944</b> 3%	<b>710</b> 2%	<b>19,590</b> 69%	<b>7,190</b> 25%	<b>28,434</b> 100%
<b>1991-92</b>	<b>1,556</b> 4%	<b>665</b> 2%	<b>25,034</b> 69%	<b>8,826</b> 24%	<b>36,084</b> 100%
<b>1992-93</b>	<b>807</b> 5%	<b>0</b> 0%	<b>8,903</b> 49%	<b>8,344</b> 46%	<b>18,054</b> 100%
<b>1993-94</b>	<b>196</b> 2%	<b>75</b> 0%	<b>1,465</b> 18%	<b>6,429</b> 79%	<b>8,165</b> 100%
<b>1994-95</b>	<b>1,150</b> 5%	<b>114</b> 0%	<b>13,703</b> 56%	<b>9,431</b> 39%	<b>24,398</b> 100%
<b>1995-96</b>	<b>2,184</b> 7%	<b>18</b> 0%	<b>23,779</b> 73%	<b>6,563</b> 20%	<b>32,544</b> 100%
<b>1996-97</b>	<b>2,253</b> 9%	<b>514</b> 2%	<b>13,396</b> 53%	<b>9,024</b> 36%	<b>25,187</b> 100%

Miscellaneous markets include shipments to North Dakota destinations 6%, Midland/Southwest destinations 4%, and all other markets 11%.

### CORN SHIPMENTS 1988-89 to 1996-97



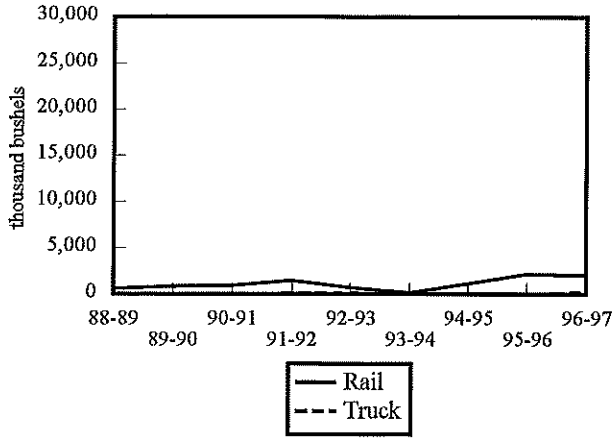
### CORN SHIPMENTS by Month, 1995-96 to 1996-97



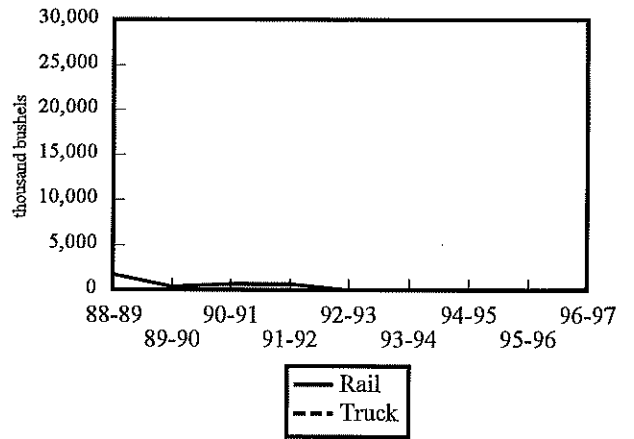
**NORTH DAKOTA CORN SHIPMENTS  
BY RAIL, TRUCK AND DESTINATION  
thousand bu.**

YEAR	Minneapolis - St. Paul		Duluth - Superior		West		Misc. Markets		TOTAL	
	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck	Rail	Truck
1988-89	570 95%	32 5%	1,727 99%	13 1%	21,498 98%	362 2%	2,175 42%	2,962 58%	25,972 89%	3,371 11%
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%

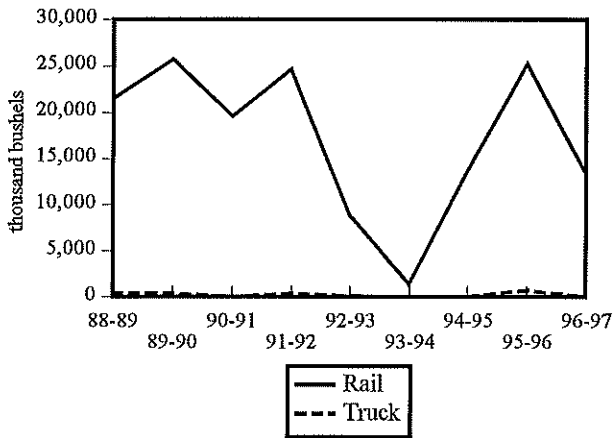
**CORN TO MINNEAPOLIS**  
1988-89 to 1996-97



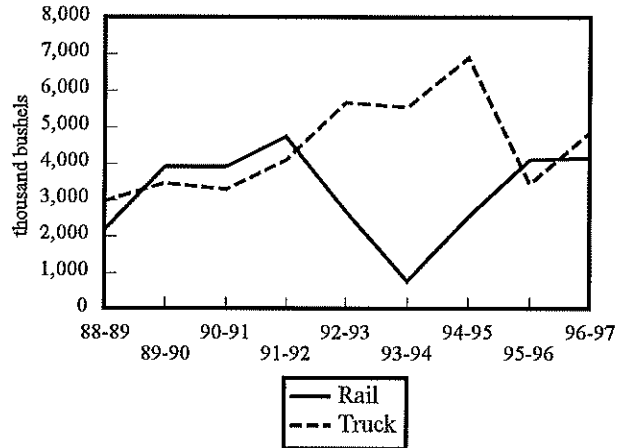
**CORN TO DULUTH-SUPERIOR**  
1988-89 to 1996-97



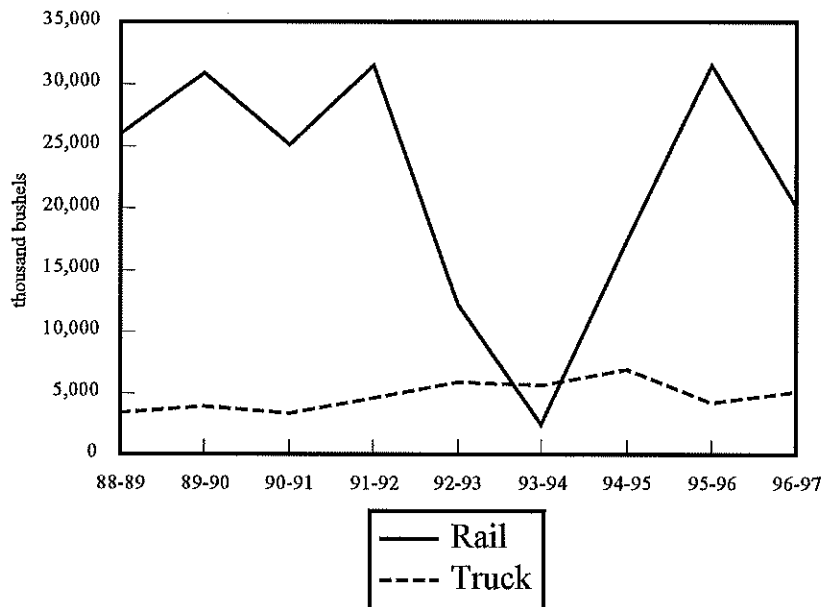
**CORN TO WEST**  
1988-89 to 1996-97



**CORN TO MISCELLANEOUS MARKETS**  
1988-89 to 1996-97

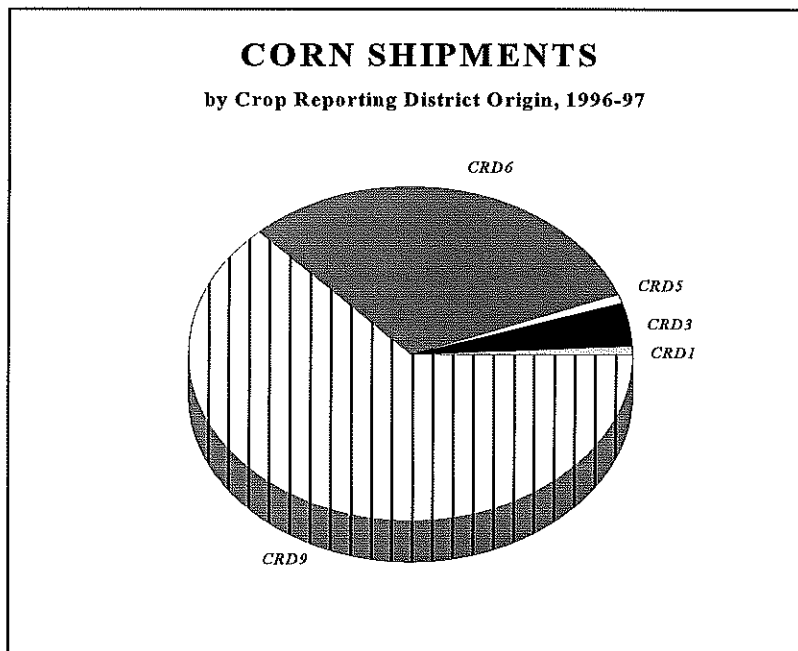


**CORN SHIPMENTS**  
1986-87 to 1995-96



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

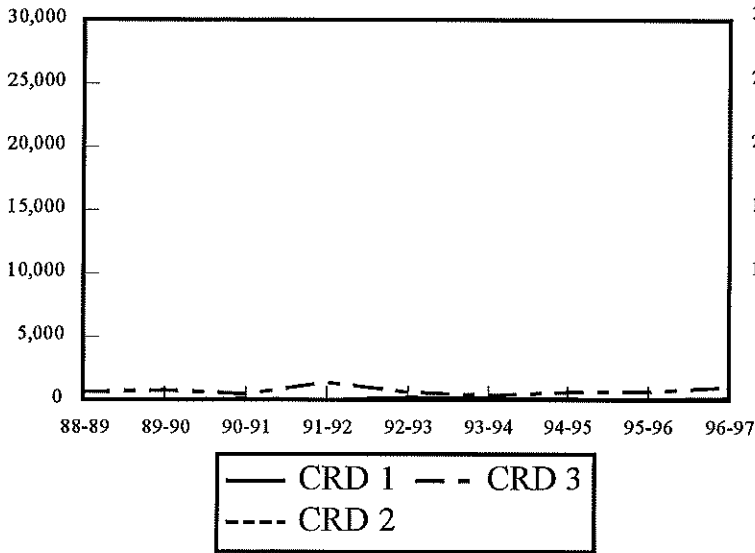
YEAR	Crop Reporting District									TOTAL
	1	2	3	4	5	6	7	8	9	
1988-89	12 0%	0 0%	648 2%	40 0%	173 1%	6,926 23%	0 0%	0 0%	21,542 73%	29,341 100%
1989-90	7 0%	0 0%	797 2%	7 0%	153 1%	7,784 22%	1 0%	0 0%	26,015 75%	34,764 100%
1990-91	0 0%	144 1%	479 2%	142 0%	78 0%	6,812 24%	0 0%	871 3%	19,908 70%	28,434 100%
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%



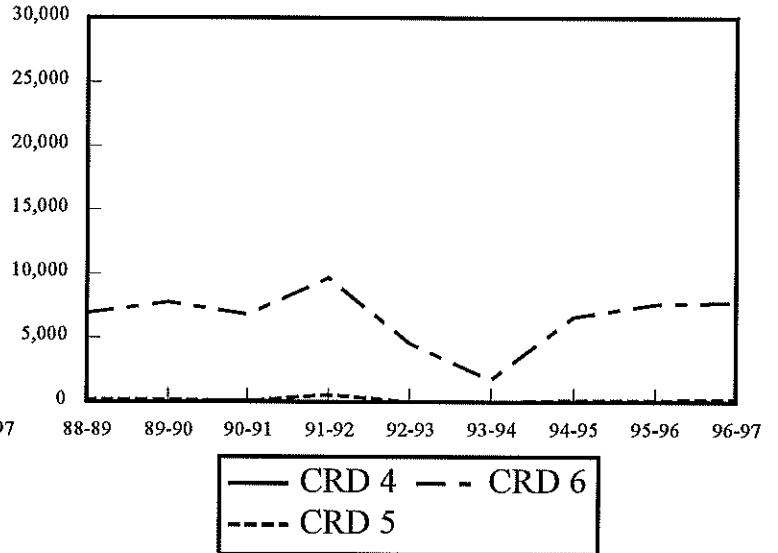


# CORN SHIPMENTS BY CROP REPORTING DISTRICT

**NORTHERN CROP REPORTING DISTRICTS**  
(thousand bushels)



**CENTRAL CROP REPORTING DISTRICTS**  
(thousand bushels)



**SOUTHERN CROP REPORTING DISTRICTS**  
(thousand bushels)

