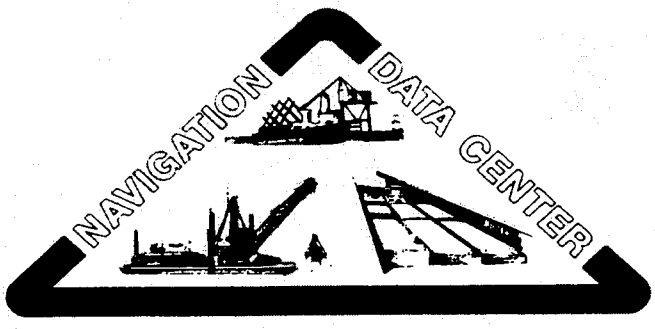
# Estimated
# Waterborne Commerce Statistics

For Calendar Year 1998

PB2000-100686

# National Totals
# and
# Selected Inland Waterways




**U.S. ARMY CORPS OF ENGINEERS**

Navigation Data Center
Waterborne Commerce Statistics Center

July 30, 1999

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## INTRODUCTION

In order to provide waterborne commerce information as soon as possible, the Waterborne Commerce Statistics Center (WCSC) has prepared this summary document of estimated waterborne commerce statistics for calendar year 1998. The foreign import and export estimates were furnished by the Bureau of the Census. The domestic national totals are based on CY98 data collected from vessel operating companies, estimates of tonnage still to be reported by delinquent vessel operating companies and on data collected at Corps locks. Both the foreign and domestic data are subject to correction and may differ slightly from the final figures to be released in October.

All graphs and tables (except page 1) show domestic tonnages (short tons). All graphs after page 1 include all internal tonnage, which is tonnage moving exclusively on waterways within the boundaries of the United States. The deep-draft sections of the Mississippi, the Columbia and the Gulf Intracoastal Waterway include some domestic coastwise data as well. This coastwise tonnage travels on these internal waterways and also Coastwise (the oceans or the Gulf of Mexico). All the data for the current year (1998) is either estimated or preliminary. The prior years' data (to 1998) are the actual compiled figures. Also, please note that rounding may result in commodity tonnages which do not add up to the totals for a waterway.

WCSC is also using the Internet to expedite release of statistics. Please visit our World Wide Web home page at:

**www.wrsc.usace.army.mil/ndc/wcsc.htm.**

There you will find the most timely WCSC statistics including this report, quarterly estimates and our monthly internal traffic indicators.

Many of our notices and products are being distributed via e-mail. If you would like to be added to our e-mail mailing list, please send your e-mail address to: Peggy.A.Galliano@MVNO2.usace.army.mil.

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## Explanation of Commodity Groups for CY1982 to 1990

Coal

Petroleum: Crude petroleum and petroleum products

Chemicals

Metal: Metals, metal products, scrap, and metal ores

Non-Metal: Non-metallic products including sand, gravel, limestone, unworked stone, sulphur, and gypsum

Farm: Farm products, unprocessed foods, and flour

Wood: Wood, wood products, forest products, paper, and paper products

Other: This is a residual category consisting of all commodities not included in the named categories of each graph. Therefore, the "Other" category in the graph of the "Total Waterway or River" may not be the sum of the upbound and downbound "Other" category. When that happens, some of the other above named categories for the waterway may also not add up precisely.

## Explanation of Commodity Groups for CY1991 to 1998 (changes are underlined)

Coal: Coal and coke

Petroleum: Crude petroleum and petroleum products (no longer includes coke)

Chemicals On page 4 (Commodities) only, liquid sulfur is included

Metal: Metals, metal products, scrap, and metal ores

Non-Metal: Non-metallic products including sand, gravel, limestone, unworked stone, sulphur, gypsum, clay, and slag

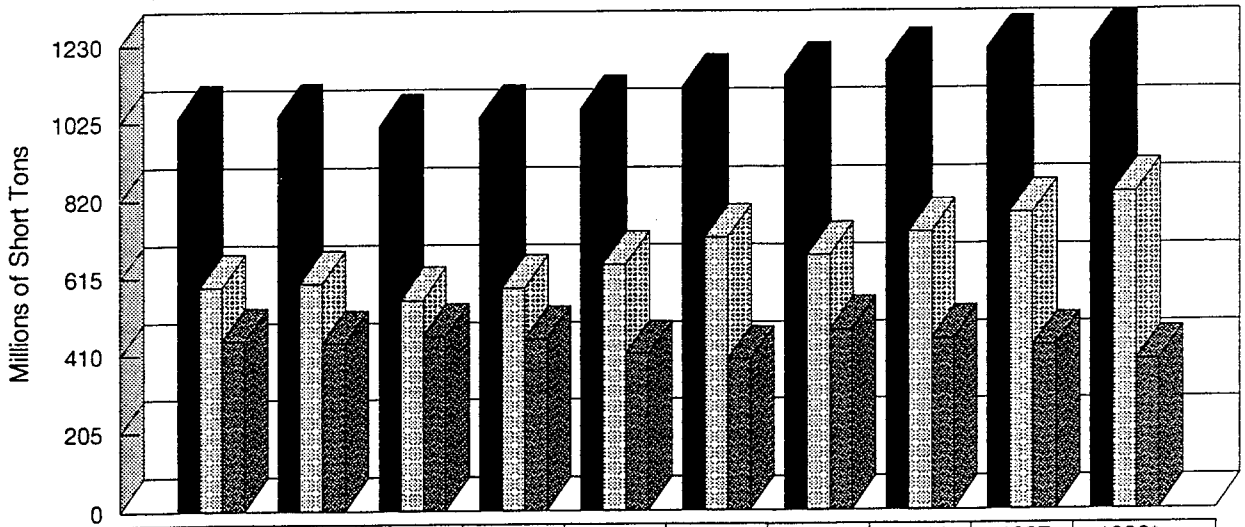
Farm: Farm products, flour, fibers, unprocessed and processed foods, fish, and tobacco

Wood: Wood, wood products, forest products, paper, and paper products

Other: This is a residual category consisting of all commodities not included in the named categories of each graph.

# Foreign Waterborne Imports and Exports

1989-1998*, Millions of Short Tons




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| Total | 1037.9 | 1041.6 | 1013.6 | 1037.5 | 1060.0 | 1115.7 | 1147.4 | 1183.4 | 1216.1 | 1233 |
| Imports | 589.5 | 600.0 | 555.4 | 586.7 | 648.8 | 719.5 | 672.7 | 732.6 | 783.4 | 839 |
| Exports | 448.4 | 441.6 | 458.2 | 450.8 | 411.3 | 396.2 | 474.7 | 450.8 | 432.7 | 394 |

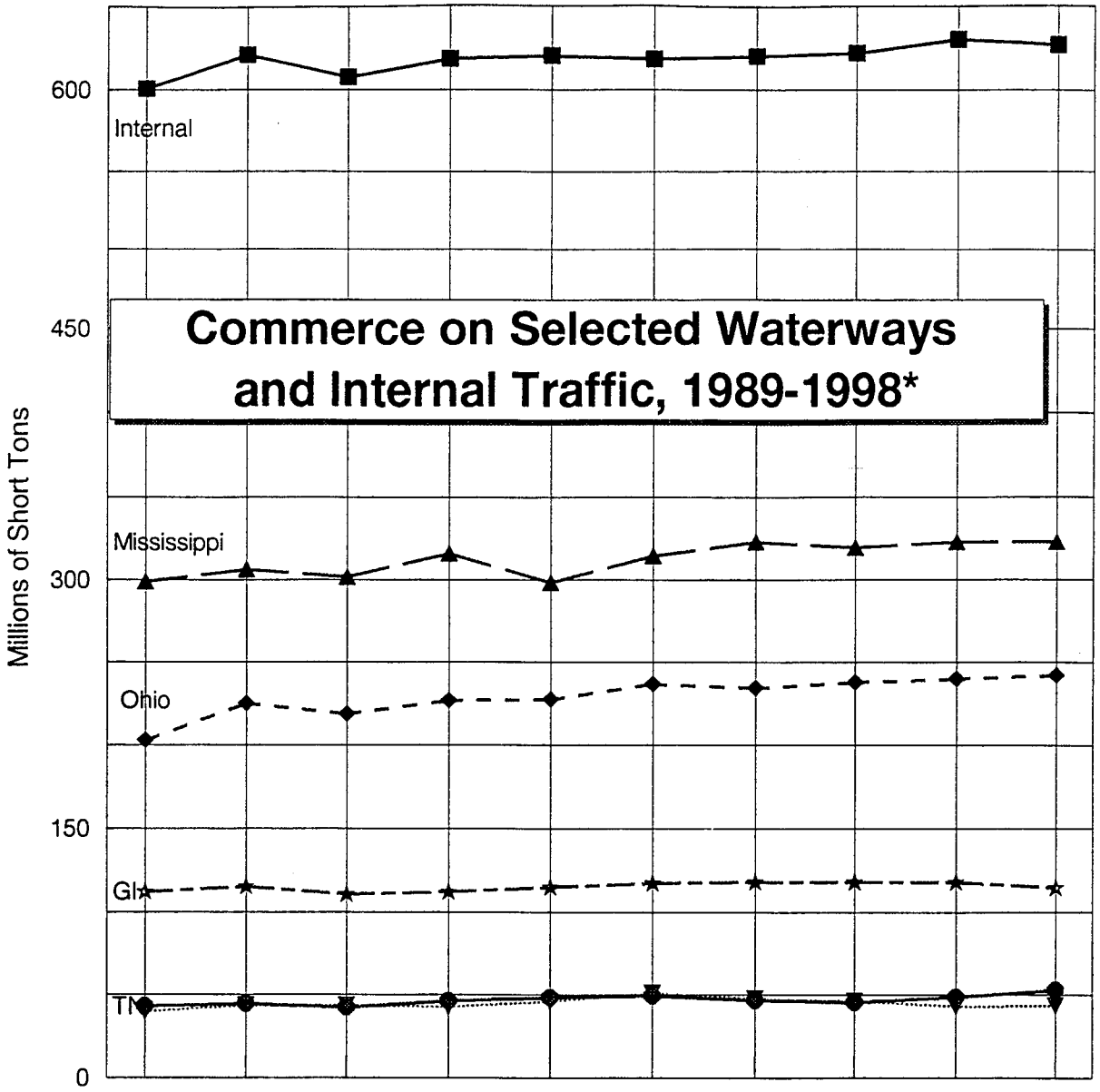
*Preliminary July 20, 1999
1989-1998*, Millions of Short Tons

# Domestic Waterborne Commerce of the U.S.

1989-1998*, Millions of Tons, by type of traffic

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| Total** | 1102.5 | 1122.3 | 1078.6 | 1094.6 | 1068.2 | 1099.0 | 1093.0 | 1100.7 | 1112.6 | 1101 |
| Internal | 606.0 | 622.6 | 600.4 | 621.0 | 607.3 | 618.4 | 620.3 | 622.1 | 630.6 | 627 |
| Coastwise | 302.0 | 298.6 | 294.5 | 285.1 | 271.7 | 277.0 | 266.6 | 267.4 | 263.1 | 257 |
| Lakewise | 109.1 | 110.2 | 103.4 | 107.4 | 109.9 | 114.8 | 116.1 | 114.9 | 123.0 | 122 |

*Preliminary July 19, 1999 **Total also includes local and intraterritorial traffic




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total Internal | 600.39 | 621.04 | 607.25 | 618.41 | 620.32 | 618.41 | 620.32 | 622.08 | 630.58 | 626.77 |
| ▲Mississippi** | 298.87 | 306.19 | 301.67 | 315.71 | 298.26 | 314.58 | 323.02 | 319.57 | 322.76 | 322.76 |
| ◆Ohio | 202.67 | 224.70 | 218.32 | 226.39 | 227.24 | 236.66 | 234.06 | 237.69 | 239.76 | 241.85 |
| ●Tennessee | 43.06 | 44.51 | 42.09 | 46.08 | 48.16 | 49.14 | 46.39 | 45.53 | 48.61 | 52.64 |
| ▼Illinois | 39.67 | 43.30 | 43.11 | 42.67 | 45.64 | 50.88 | 47.43 | 46.24 | 42.99 | 43.24 |
| ★GIWW** | 112.36 | 115.38 | 110.83 | 112.19 | 114.94 | 117.61 | 117.96 | 118.03 | 118.11 | 114.54 |

Moved solely within the boundaries of the U.S.

*1998 Data was estimated July 99. **Includes domestic coastwise tons.

# DOMESTIC U.S. WATERBORNE TRAFFIC

## ANNUAL TONNAGE COMPARISONS: 1998* vs 1997

(Millions of Short Tons)

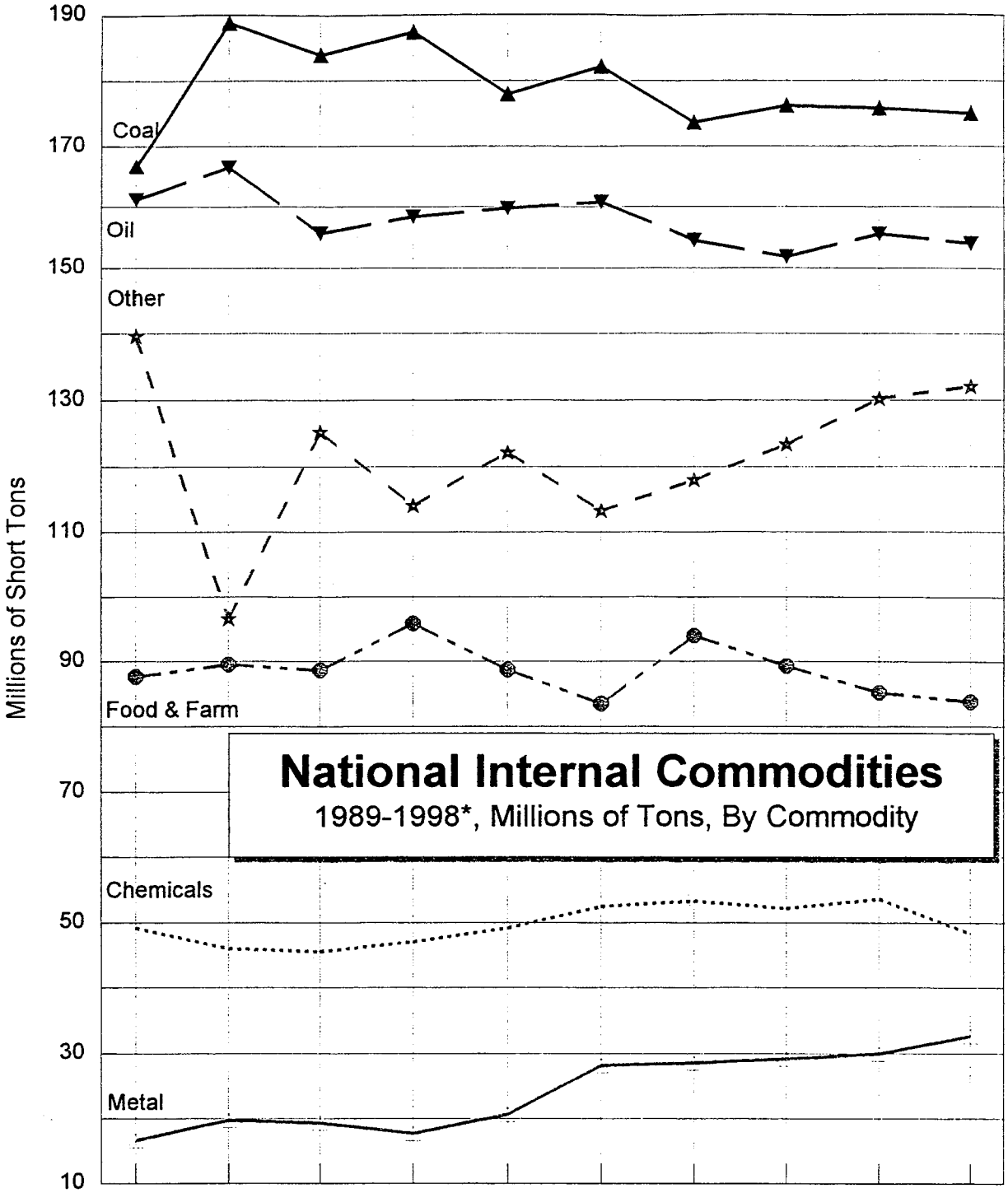
| | 97 | 98* | Percent Change |
|---|---|---|---|
| **National Domestic Totals** | 1112.5 | 1100.9 | -1.0 |
| **National Lakewise Totals** | 122.7 | 122.2 | -0.5 |
| **National Coastwise Totals** | 263.1 | 256.5 | -2.5 |
| **National Internal Totals:** | 630.6 | 626.8 | -0.6 |
| **National Internal Commodities** | | | |
| Food and Farm | 85.2 | 83.9 | -1.6 |
| Coal | 176.0 | 175.1 | -0.5 |
| Chemicals | 53.6 | 48.3 | -9.8 |
| Petroleum | 155.5 | 154.0 | -1.0 |
| Metal | 29.9 | 32.6 | 9.0 |
| Other | 130.3 | 132.0 | 1.3 |
| **Waterways** | | | |
| Alabama-Coosa River | 0.7 | 0.7 | -5.9 |
| Allegheny River | 3.9 | 3.9 | -0.6 |
| Apalachicola River | 0.5 | 0.4 | -17.0 |
| Atchafalaya River (Upper) | 10.6 | 12.1 | 14.0 |
| Atlantic Intracoastal | 3.59 | **3.8** | 5.2 |
| Big Sandy River | 18.2 | 19.8 | 9.2 |
| Black Warrior River | **2.79** | **2.8** | -1.2 |
| Columbia River** | 19.1 | 17.5 | -8.2 |
| Cumberland River | 23.7 | 23.8 | 0.2 |
| Green and Barren Rivers | 7.3 | 6.7 | -8.0 |
| Gulf Intracoastal** | 118.11 | **114.5** | -3.0 |
| Illinois Waterway | 42.99 | **43.2** | 0.6 |
| Kanawha River | 24.8 | 23.2 | -6.4 |
| McClellan-Kerr Wtwy | 11.2 | 11.9 | 6.6 |
| Mississippi River** | 322.8 | **322.8** | 0.0 |
| Missouri River | 8.2 | 8.3 | 2.1 |
| Monongahela River | 37.2 | 36.9 | -0.6 |
| Ohio River | **239.8** | **241.9** | 0.9 |
| Snake River | 6.1 | 5.9 | -2.7 |
| Tennessee River | 48.6 | 51.9 | 6.8 |
| Tennessee Tombigbee | 8.2 | 8.4 | 2.3 |

*Estimated July 1999 **Includes domestic coastwise tonnage.

Rounding may cause slight discrepancies in the data. National Domestic totals equal lakewise plus coastwise plus internal plus intraport plus interterritorial.

"Other" is nonmetals, wood products, cement, lime and sea shells.

Internal: Moved solely within the boundaries of the U. S.

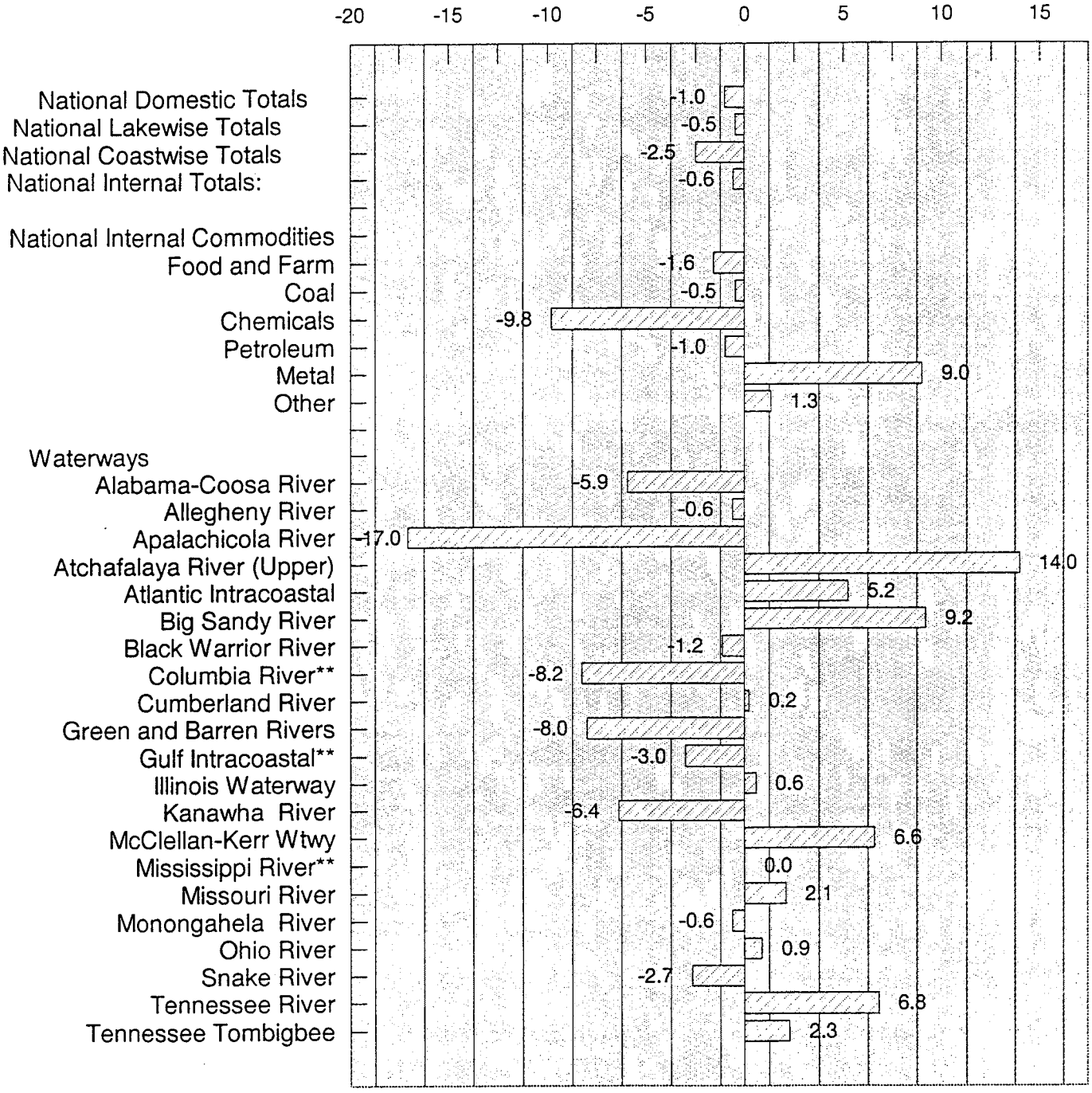



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ▲Coal | 166.76 | 188.82 | 183.97 | 187.42 | 177.96 | 182.15 | 173.72 | 176.30 | 175.93 | 175.1 |
| ▼Oil & Oil Products | 161.27 | 166.58 | 155.66 | 158.34 | 159.83 | 160.79 | 154.50 | 151.79 | 155.53 | 154.0 |
| ★Other | 139.59 | 96.61 | 125.24 | 114.02 | 122.14 | 113.24 | 117.95 | 123.41 | 130.26 | 132.0 |
| ⊛Food & Farm | 87.65 | 89.49 | 88.65 | 95.80 | 88.68 | 83.51 | 93.99 | 89.28 | 85.24 | 83.9 |
| Chemicals | 49.15 | 46.00 | 45.55 | 47.07 | 49.18 | 52.47 | 53.33 | 52.13 | 53.58 | 48.3 |
| Metal | 16.63 | 19.75 | 19.33 | 17.69 | 20.62 | 28.16 | 28.59 | 29.17 | 29.90 | 32.6 |

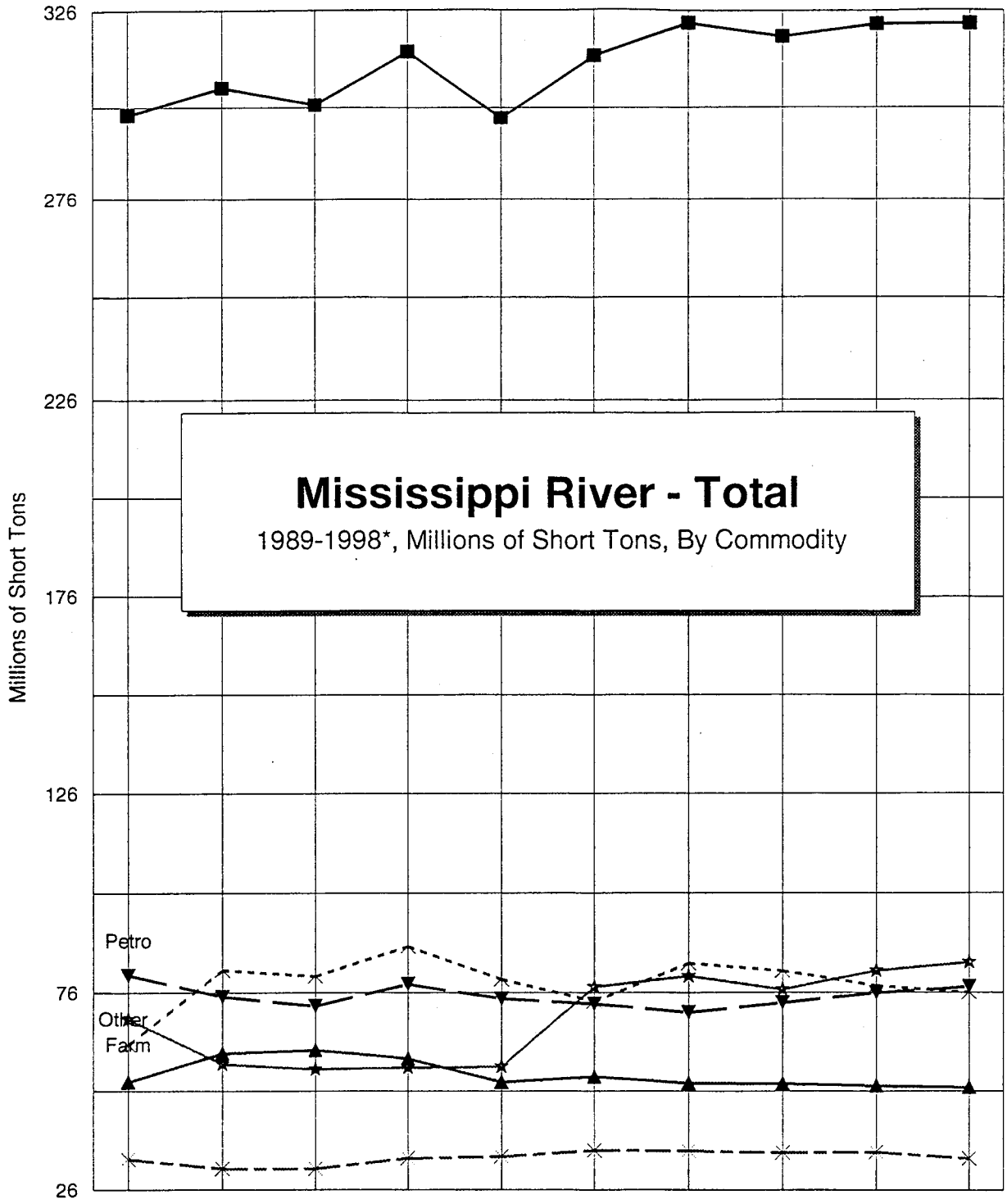
*Estimated 7-16-99

# DOMESTIC U.S. WATERBORNE TRAFFIC

## TONNAGE COMPARISONS: 1998* vs 1997

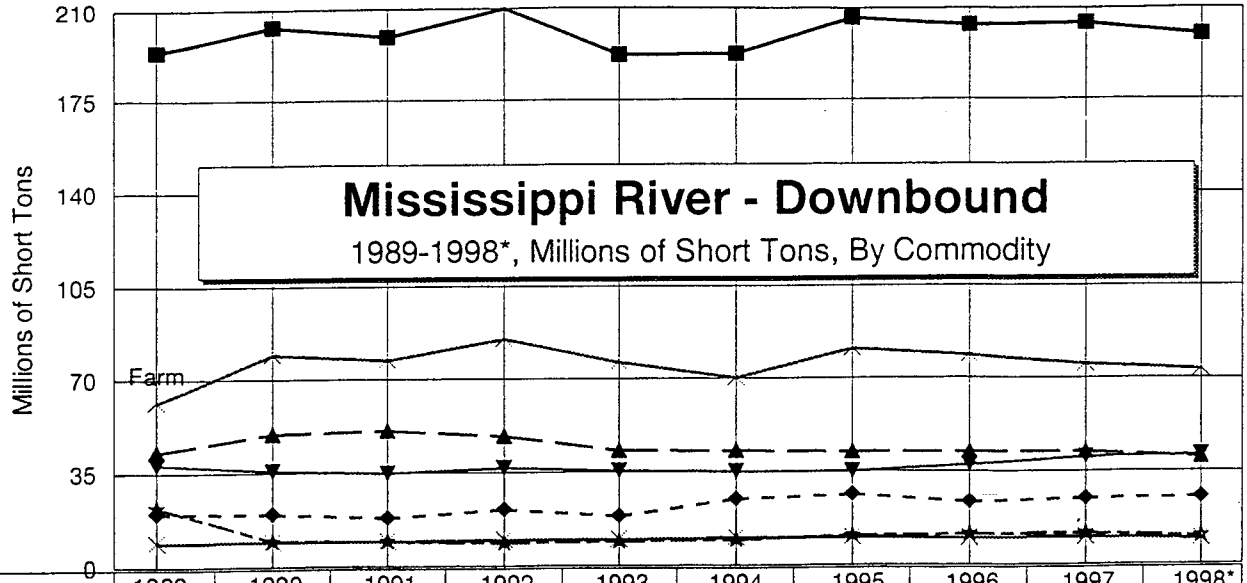



July 20, 1999 **Includes domestic coastwise tonnage.
Internal: Moved solely within the boundaries of the U. S.



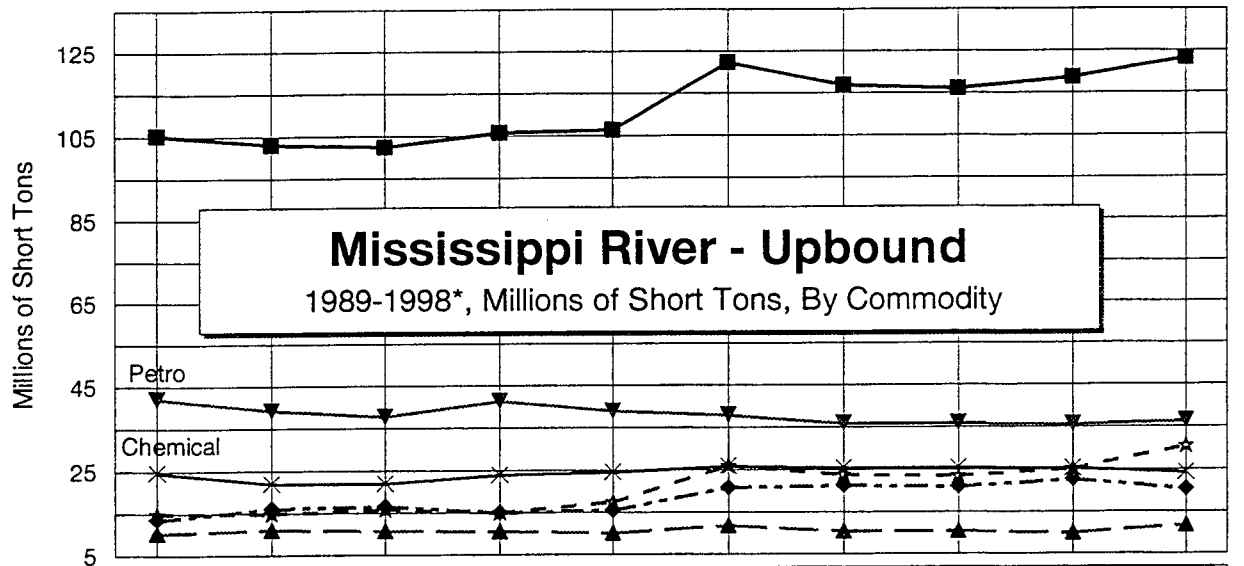

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 298.87 | 306.19 | 301.67 | 315.71 | 298.26 | 314.58 | 323.02 | 319.57 | 322.76 | 322.8 |
| ☆ Other | 69.11 | 57.90 | 56.67 | 57.04 | 57.18 | 77.36 | 80.17 | 76.72 | 81.49 | 83.7 |
| ⅄ Farm | 62.58 | 81.62 | 79.97 | 87.52 | 79.17 | 73.69 | 83.33 | 81.29 | 77.66 | 75.9 |
| ▼ Petro | 80.30 | 74.80 | 72.47 | 78.03 | 74.33 | 72.93 | 70.81 | 73.26 | 75.80 | 77.4 |
| ▲ Coal | 53.20 | 60.55 | 61.36 | 59.28 | 53.33 | 54.63 | 52.91 | 52.87 | 52.35 | 51.9 |
| ✕ Chemical | 33.68 | 31.31 | 31.21 | 33.85 | 34.26 | 35.96 | 35.80 | 35.42 | 35.45 | 33.9 |

7-12-99 Domestic Tonnage *The 1998 data is estimated.




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 193.63 | 203.18 | 199.28 | 210.04 | 191.98 | 192.29 | 206.32 | 203.48 | 204.10 | 199.7 |
| ✕ Farm | 61.38 | 79.30 | 77.06 | 85.00 | 76.10 | 70.13 | 81.20 | 78.53 | 75.10 | 73.2 |
| ▲ Coal | 42.92 | 49.55 | 50.69 | 48.71 | 43.18 | 42.80 | 42.43 | 42.44 | 42.43 | 40.1 |
| ▼ Petro | 38.17 | 35.61 | 34.77 | 36.73 | 35.43 | 35.01 | 34.91 | 37.33 | 40.17 | 41.0 |
| ◆ Nonmetal | 19.79 | 19.70 | 17.98 | 21.02 | 18.53 | 24.72 | 26.28 | 23.59 | 24.67 | 25.2 |
| ✕ Chemical | 9.03 | 9.36 | 9.33 | 9.93 | 9.75 | 10.14 | 10.37 | 10.04 | 10.14 | 9.7 |
| ★ Other | 22.34 | 9.67 | 9.44 | 8.64 | 8.99 | 9.48 | 11.13 | 11.56 | 11.60 | 10.4 |

7-12-99 Domestic Tonnage *The 1998 data is estimated.

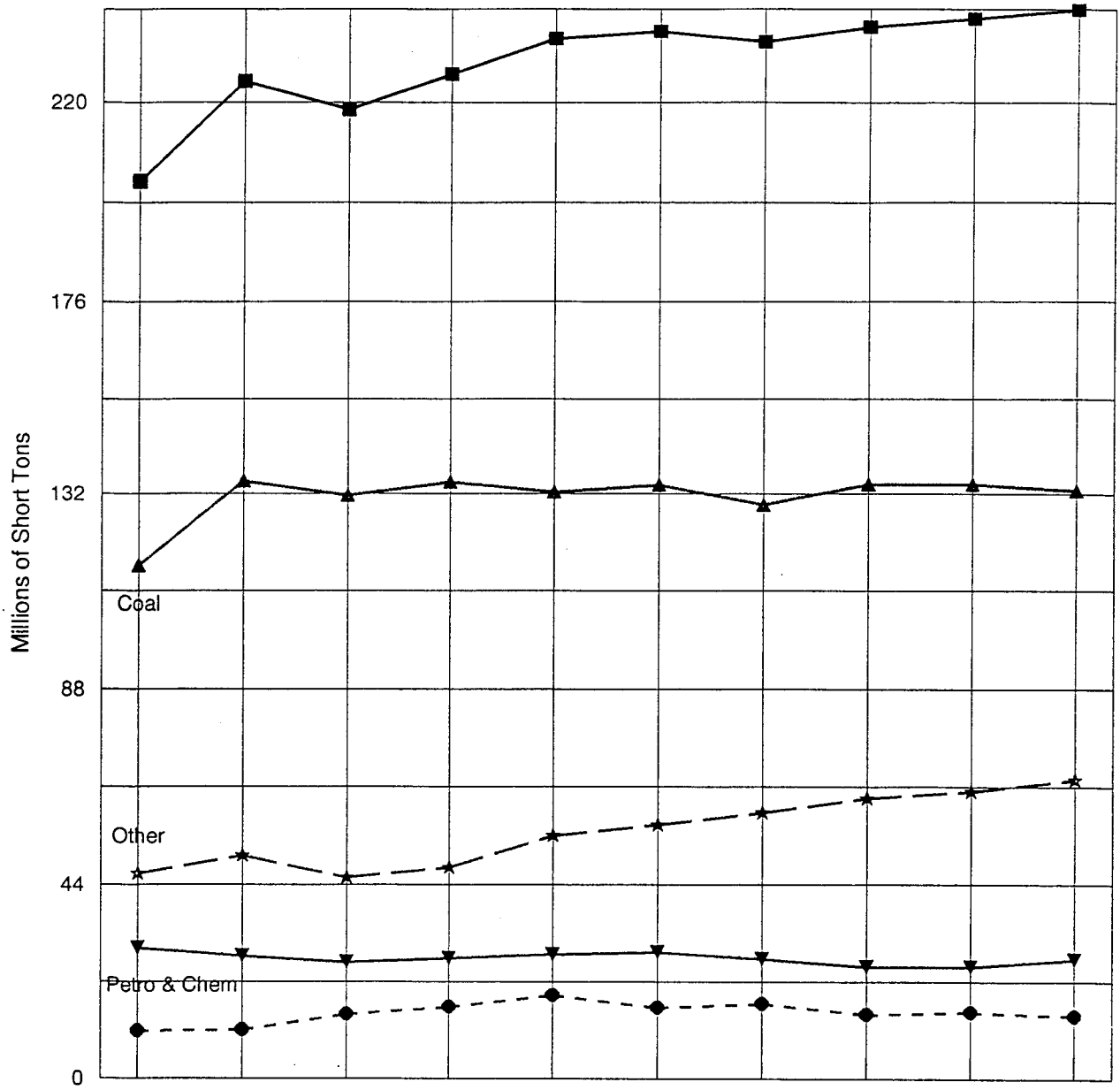



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 105.25 | 103.01 | 102.39 | 105.67 | 106.28 | 122.29 | 116.70 | 116.08 | 118.65 | 123.1 |
| ▼ Petro | 42.13 | 39.19 | 37.69 | 41.29 | 38.90 | 37.91 | 35.90 | 35.93 | 35.63 | 36.4 |
| ✕ Chemical | 24.65 | 21.95 | 21.87 | 23.92 | 24.51 | 25.82 | 25.43 | 25.38 | 25.31 | 24.2 |
| ★ Other | 14.75 | 14.87 | 15.64 | 14.99 | 17.29 | 25.91 | 23.76 | 23.44 | 25.16 | 30.4 |
| ◆ Nonmetal | 13.44 | 15.99 | 16.52 | 14.91 | 15.44 | 20.82 | 21.13 | 20.90 | 22.62 | 20.3 |
| ▲ Coal | 10.28 | 11.00 | 10.67 | 10.57 | 10.14 | 11.83 | 10.48 | 10.43 | 9.92 | 11.8 |

7-12-99 Domestic Tonnage *The 1998 data is estimated.

# Ohio River - Total

1989-1998*, Millions of Short Tons, By Commodity

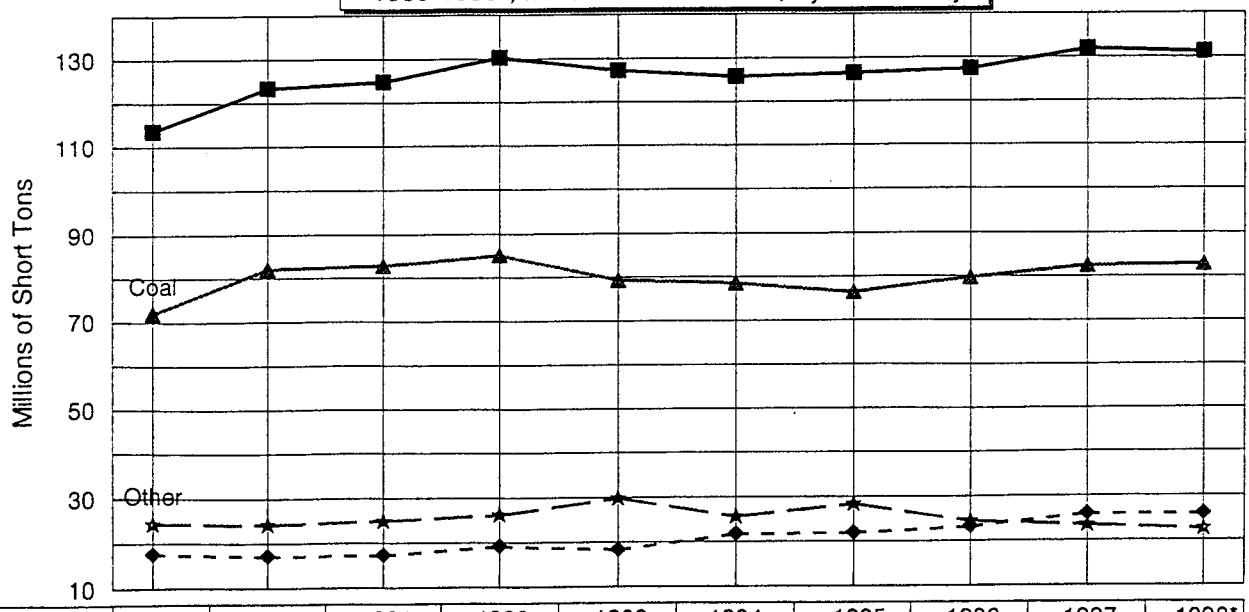



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 202.67 | 224.70 | 218.32 | 226.39 | 234.88 | 236.66 | 234.06 | 237.69 | 239.76 | 241.9 |
| ▲ Coal | 115.64 | 134.97 | 131.58 | 134.65 | 132.42 | 134.02 | 129.46 | 134.14 | 134.19 | 132.7 |
| ✯ Other | 46.58 | 50.68 | 45.64 | 48.06 | 55.22 | 57.60 | 60.32 | 63.47 | 64.93 | 67.7 |
| ▼ Petro & Chem | 29.77 | 27.95 | 26.49 | 27.34 | 28.24 | 28.78 | 27.25 | 25.50 | 25.57 | 27.2 |
| ● Farm | 10.68 | 11.10 | 14.60 | 16.34 | 18.99 | 16.25 | 17.04 | 14.58 | 15.07 | 14.2 |

7-13-99 *Estimated

# Ohio River - Downbound

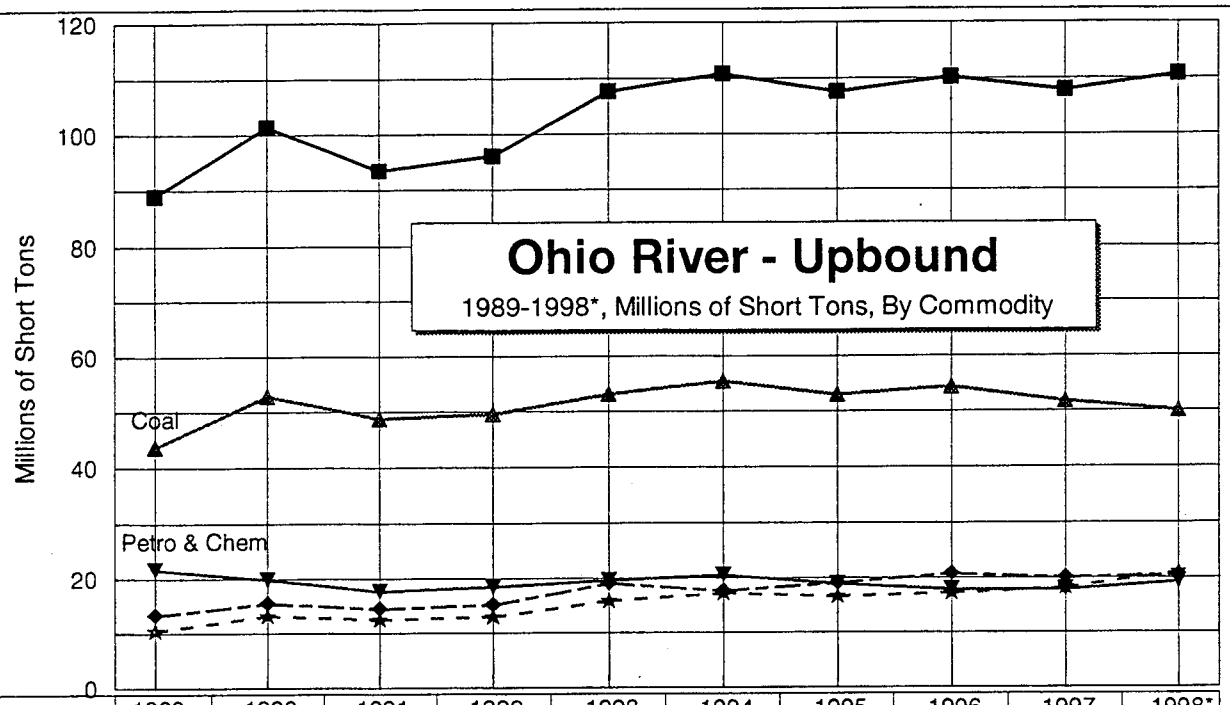
1989-1998*, Millions of Short Tons, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 113.69 | 123.29 | 124.83 | 130.24 | 127.23 | 125.79 | 126.45 | 127.40 | 131.82 | 131.1 |
| ▲ Coal | 72.01 | 82.02 | 82.76 | 85.09 | 79.29 | 78.55 | 76.37 | 79.74 | 82.48 | 82.7 |
| ★ Other | 24.29 | 24.17 | 24.90 | 26.13 | 29.79 | 25.64 | 28.33 | 24.48 | 23.44 | 22.5 |
| ◆ Nonmetal | 17.39 | 17.10 | 17.18 | 19.02 | 18.15 | 21.60 | 21.75 | 23.17 | 25.90 | 25.9 |

# Ohio River - Upbound

1989-1998*, Millions of Short Tons, By Commodity

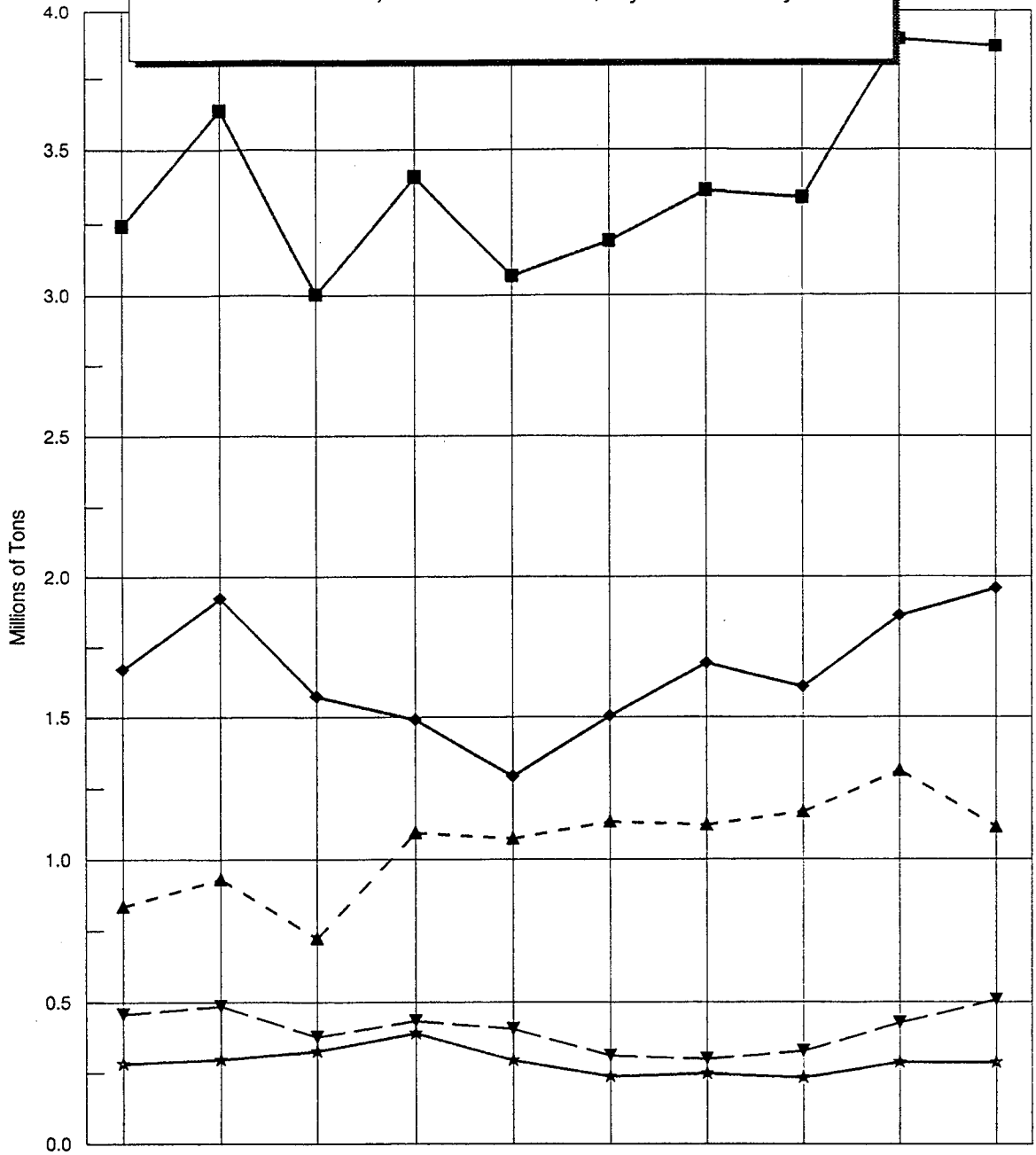



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 88.98 | 101.40 | 93.48 | 96.15 | 107.65 | 110.87 | 107.61 | 110.29 | 107.94 | 110.7 |
| ▲ Coal | 43.63 | 52.94 | 48.82 | 49.56 | 53.13 | 55.47 | 53.09 | 54.40 | 51.71 | 50.0 |
| ▼ Petro & Chem | 21.68 | 19.81 | 17.73 | 18.51 | 19.64 | 20.53 | 18.87 | 17.92 | 17.90 | 19.2 |
| ◆ Nonmetal | 13.28 | 15.47 | 14.46 | 15.16 | 19.01 | 17.71 | 19.01 | 20.71 | 20.06 | 20.5 |
| ★ Other | 10.40 | 13.17 | 12.47 | 12.92 | 15.87 | 17.16 | 16.65 | 17.25 | 18.27 | 21.0 |

7-13-99 *Estimated

# Allegheny River - Total

1989-1998*, Millions of Tons, By Commodity

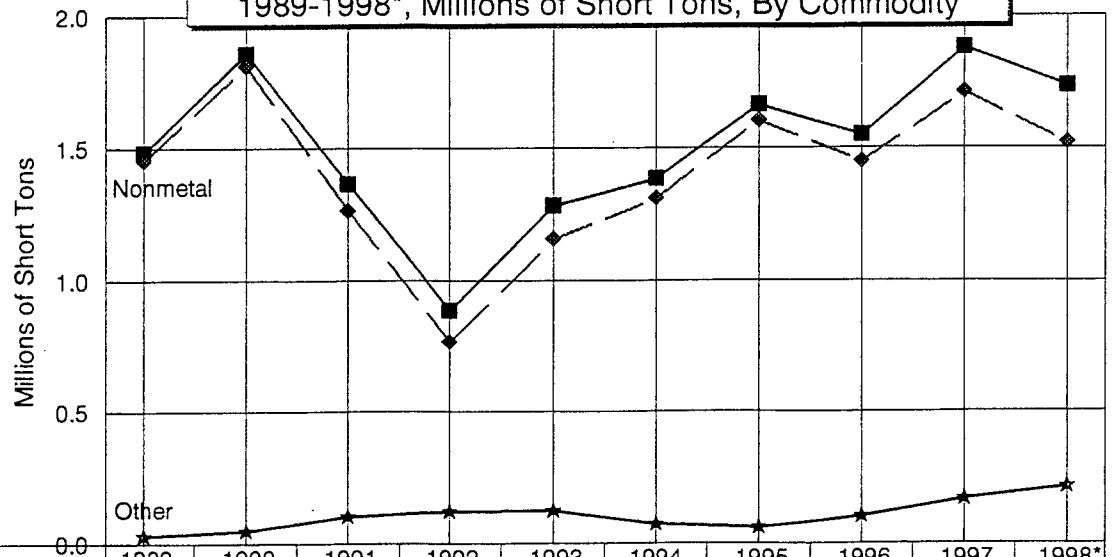



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.24 | 3.64 | 3.00 | 3.41 | 3.07 | 3.19 | 3.36 | 3.34 | 3.89 | 3.9 |
| ◆ Nonmetal | 1.67 | 1.92 | 1.57 | 1.49 | 1.29 | 1.51 | 1.69 | 1.61 | 1.86 | 2.0 |
| ▲ Coal | 0.84 | 0.93 | 0.73 | 1.09 | 1.07 | 1.14 | 1.12 | 1.17 | 1.32 | 1.1 |
| ▼ Petro & Chem | 0.46 | 0.49 | 0.38 | 0.43 | 0.41 | 0.31 | 0.30 | 0.33 | 0.43 | 0.5 |
| ☆ Other | 0.28 | 0.30 | 0.33 | 0.39 | 0.30 | 0.24 | 0.25 | 0.24 | 0.29 | 0.3 |

6-03-99 *Estimated

# Allegheny River - Downbound

1989-1998*, Millions of Short Tons, By Commodity

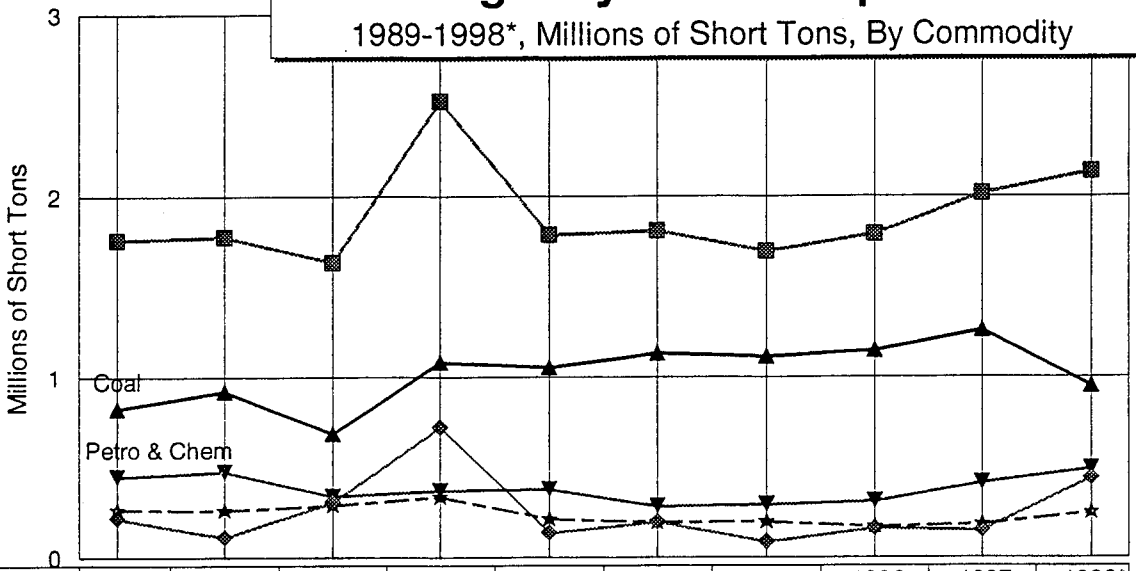



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 1.48 | 1.86 | 1.37 | 0.89 | 1.28 | 1.38 | 1.67 | 1.55 | 1.88 | 1.7 |
| ◆ Nonmetal | 1.45 | 1.81 | 1.26 | 0.77 | 1.16 | 1.31 | 1.60 | 1.45 | 1.71 | 1.5 |
| ★ Other | 0.03 | 0.05 | 0.10 | 0.12 | 0.13 | 0.07 | 0.06 | 0.10 | 0.17 | 0.2 |

6-03-99 *Estimated

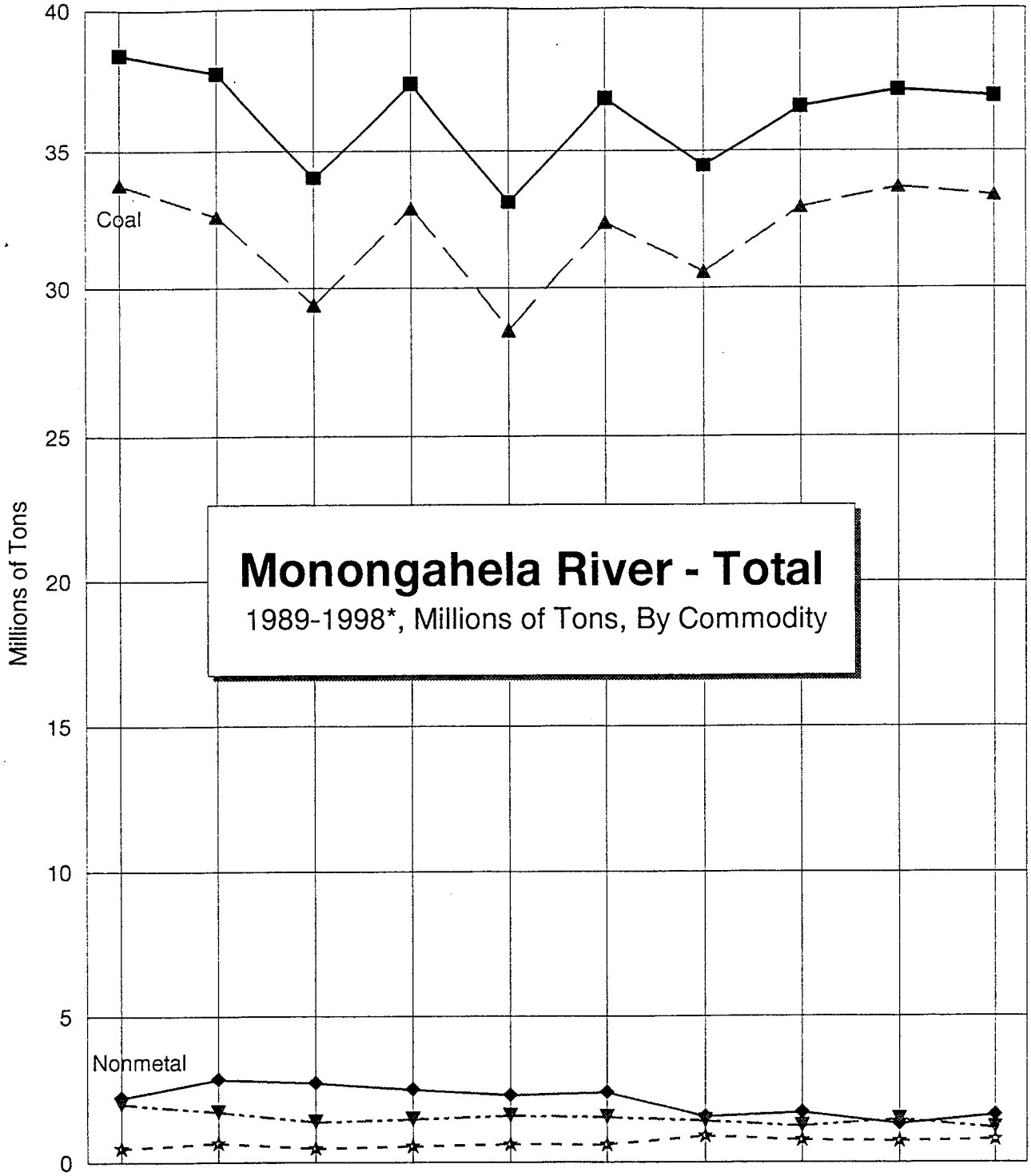
# Allegheny River - Upbound

1989-1998*, Millions of Short Tons, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 1.76 | 1.78 | 1.64 | 2.52 | 1.79 | 1.81 | 1.70 | 1.79 | 2.01 | 2.1 |
| ▲ Coal | 0.83 | 0.92 | 0.69 | 1.08 | 1.05 | 1.13 | 1.11 | 1.14 | 1.26 | 1.0 |
| ▼ Petro & Chem | 0.45 | 0.48 | 0.34 | 0.37 | 0.38 | 0.28 | 0.29 | 0.31 | 0.42 | 0.5 |
| ★ Other | 0.27 | 0.26 | 0.29 | 0.34 | 0.22 | 0.20 | 0.20 | 0.17 | 0.19 | 0.2 |
| ◆ Nonmetal | 0.22 | 0.11 | 0.31 | 0.73 | 0.14 | 0.20 | 0.09 | 0.16 | 0.15 | 0.4 |

6-03-99 *Estimated

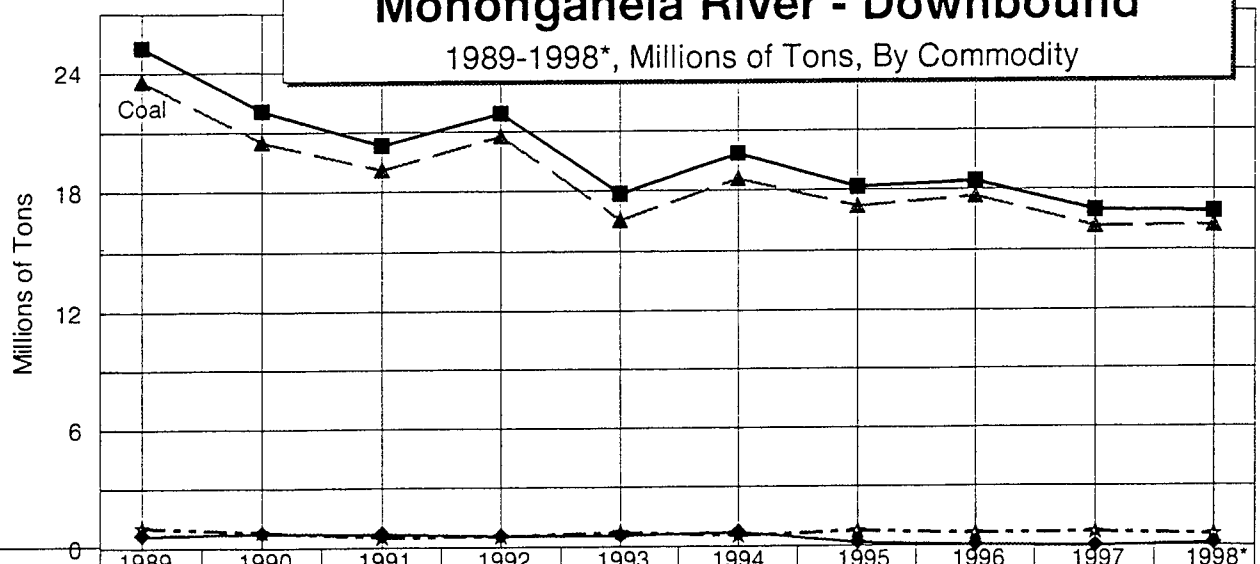



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 38.42 | 37.76 | 33.99 | 37.37 | 33.07 | 36.87 | 34.44 | 36.59 | 37.16 | 36.9 |
| ▲Coal | 33.73 | 32.54 | 29.42 | 32.86 | 28.56 | 32.34 | 30.58 | 32.89 | 33.65 | 33.4 |
| ◆Nonmetal | 2.22 | 2.83 | 2.72 | 2.49 | 2.30 | 2.37 | 1.56 | 1.70 | 1.31 | 1.6 |
| ▼Petro & Chem | 2.00 | 1.72 | 1.38 | 1.47 | 1.59 | 1.54 | 1.41 | 1.23 | 1.47 | 1.2 |
| ★Other | 0.47 | 0.66 | 0.47 | 0.56 | 0.62 | 0.61 | 0.90 | 0.77 | 0.72 | 0.8 |

7-12-99 *Estimated

# Monongahela River - Downbound

1989-1998*, Millions of Tons, By Commodity

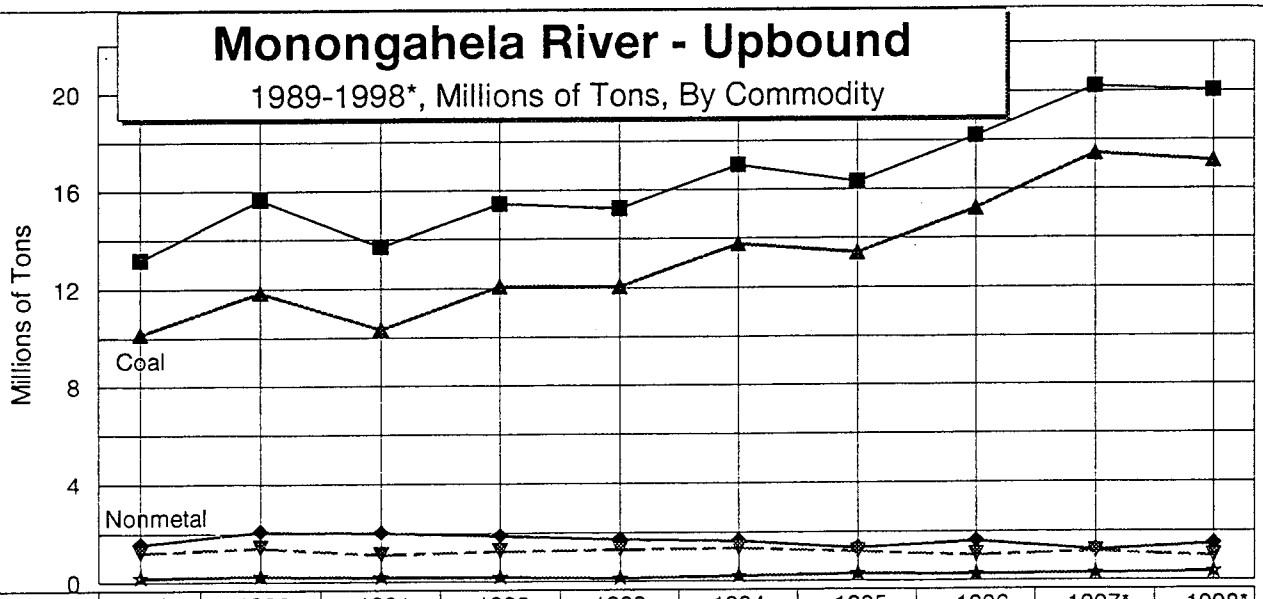



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 25.25 | 22.07 | 20.31 | 21.92 | 17.82 | 19.84 | 18.13 | 18.40 | 16.94 | 16.9 |
| ▲ Coal | 23.58 | 20.51 | 19.10 | 20.77 | 16.53 | 18.57 | 17.17 | 17.67 | 16.19 | 16.2 |
| ★ Other | 1.02 | 0.81 | 0.50 | 0.55 | 0.73 | 0.55 | 0.78 | 0.65 | 0.70 | 0.6 |
| ◆ Nonmetals | 0.65 | 0.75 | 0.71 | 0.60 | 0.57 | 0.73 | 0.19 | 0.08 | 0.04 | 0.1 |

7-12-99 *Estimated

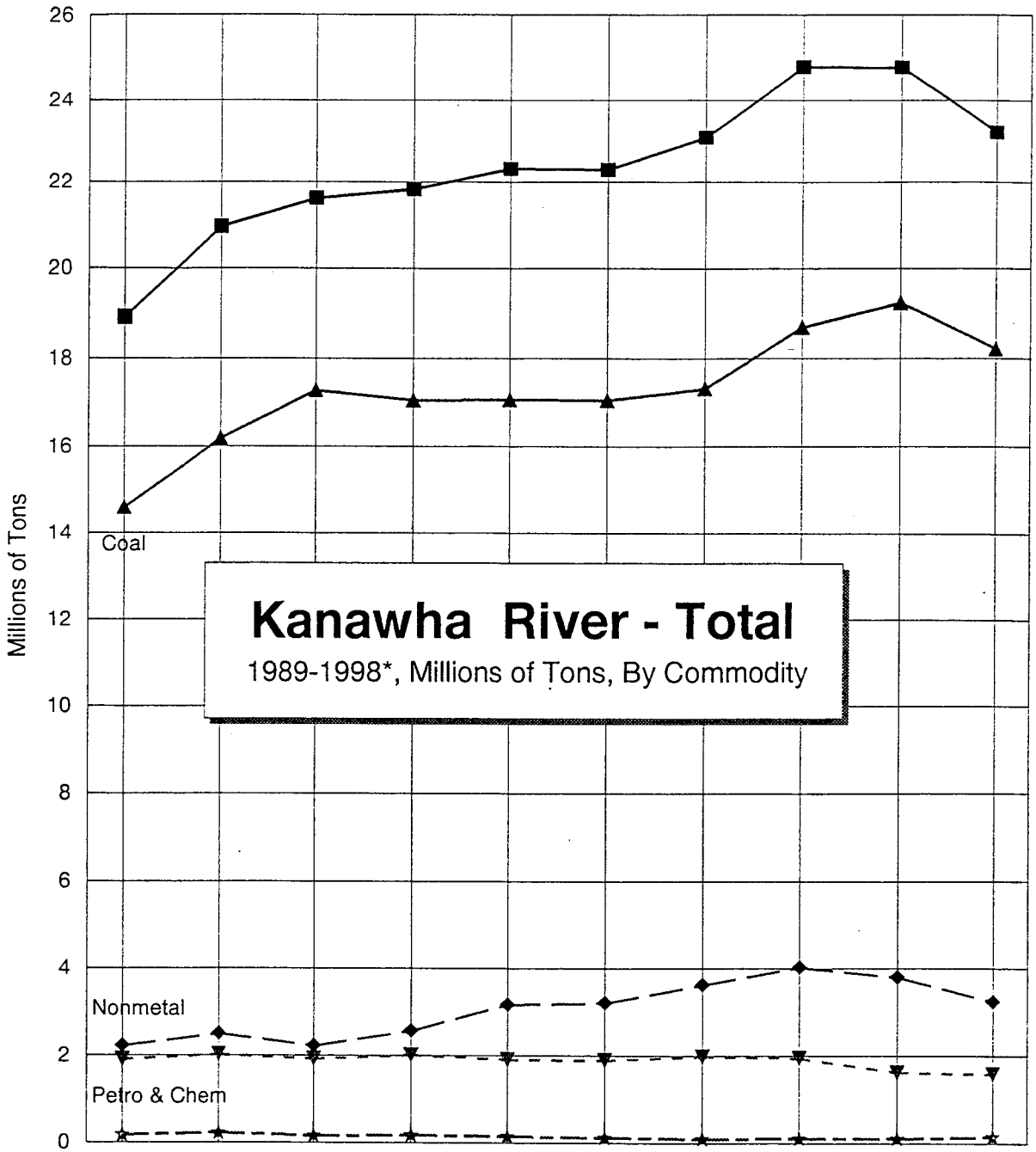
# Monongahela River - Upbound

1989-1998*, Millions of Tons, By Commodity



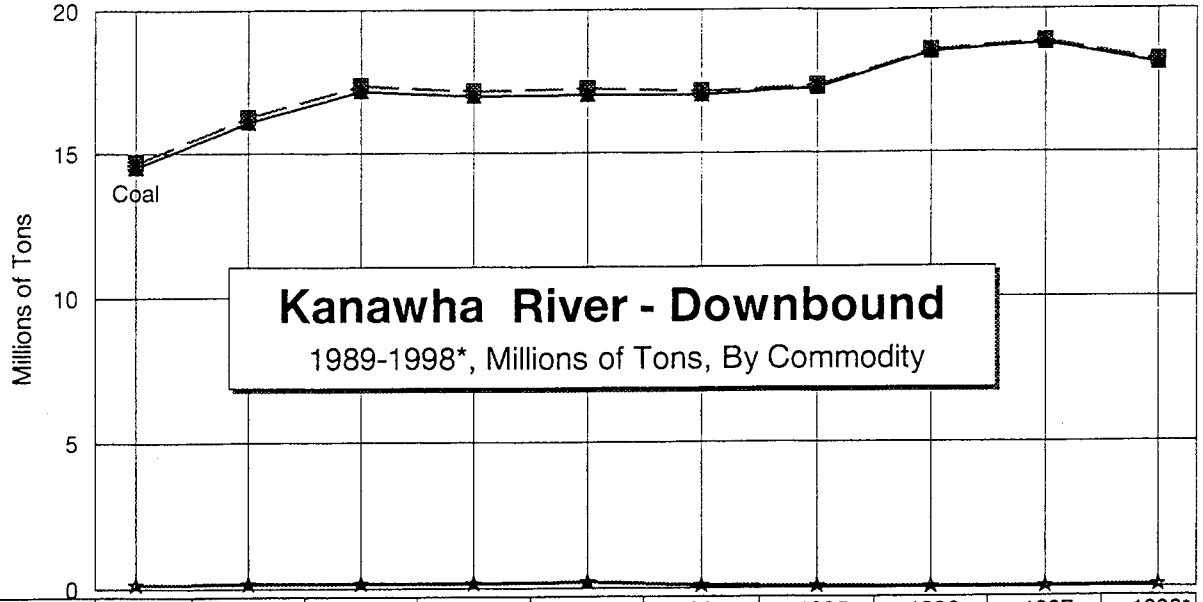

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997* | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 13.17 | 15.62 | 13.69 | 15.46 | 15.25 | 17.03 | 16.32 | 18.18 | 20.22 | 20.0 |
| ▲ Coal | 10.15 | 11.85 | 10.32 | 12.08 | 12.04 | 13.77 | 13.41 | 15.22 | 17.46 | 17.1 |
| ◆ Nonmetal | 1.57 | 2.07 | 2.01 | 1.90 | 1.72 | 1.65 | 1.37 | 1.62 | 1.27 | 1.5 |
| ▼ Petro & Chem | 1.23 | 1.42 | 1.14 | 1.27 | 1.32 | 1.37 | 1.20 | 1.05 | 1.18 | 1.0 |
| ★ Other | 0.22 | 0.27 | 0.22 | 0.21 | 0.16 | 0.24 | 0.34 | 0.29 | 0.32 | 0.4 |

7-12-99 *Estimated

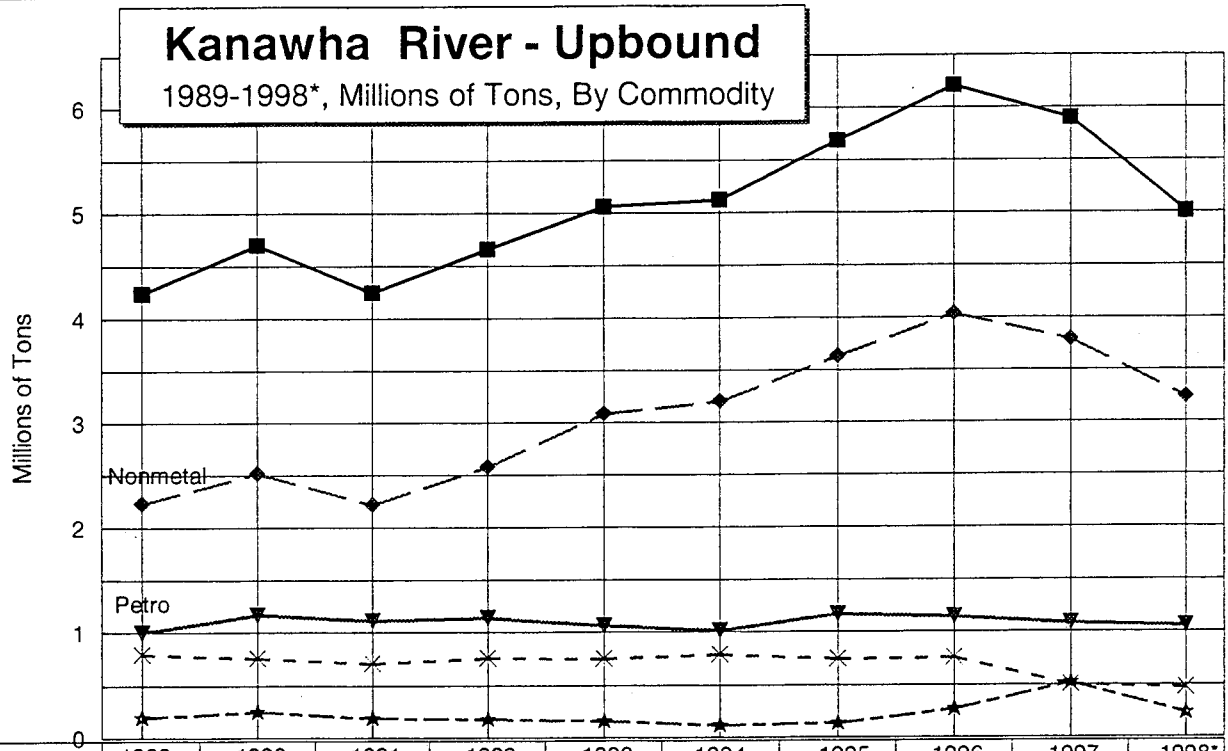



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 18.91 | 20.95 | 21.60 | 21.83 | 22.32 | 22.28 | 23.06 | 24.79 | 24.79 | 23.2 |
| ▲Coal | 14.58 | 16.18 | 17.28 | 17.05 | 17.07 | 17.05 | 17.32 | 18.68 | 19.22 | 18.2 |
| ◆Nonmetal | 2.23 | 2.52 | 2.22 | 2.58 | 3.18 | 3.21 | 3.63 | 4.04 | 3.81 | 3.2 |
| ▼Petro & Chem | 1.91 | 2.03 | 1.93 | 2.02 | 1.91 | 1.90 | 2.00 | 1.96 | 1.64 | 1.6 |
| ★Other | 0.18 | 0.22 | 0.17 | 0.18 | 0.15 | 0.13 | 0.11 | 0.11 | 0.12 | 0.2 |

7-09-99 *Estimate

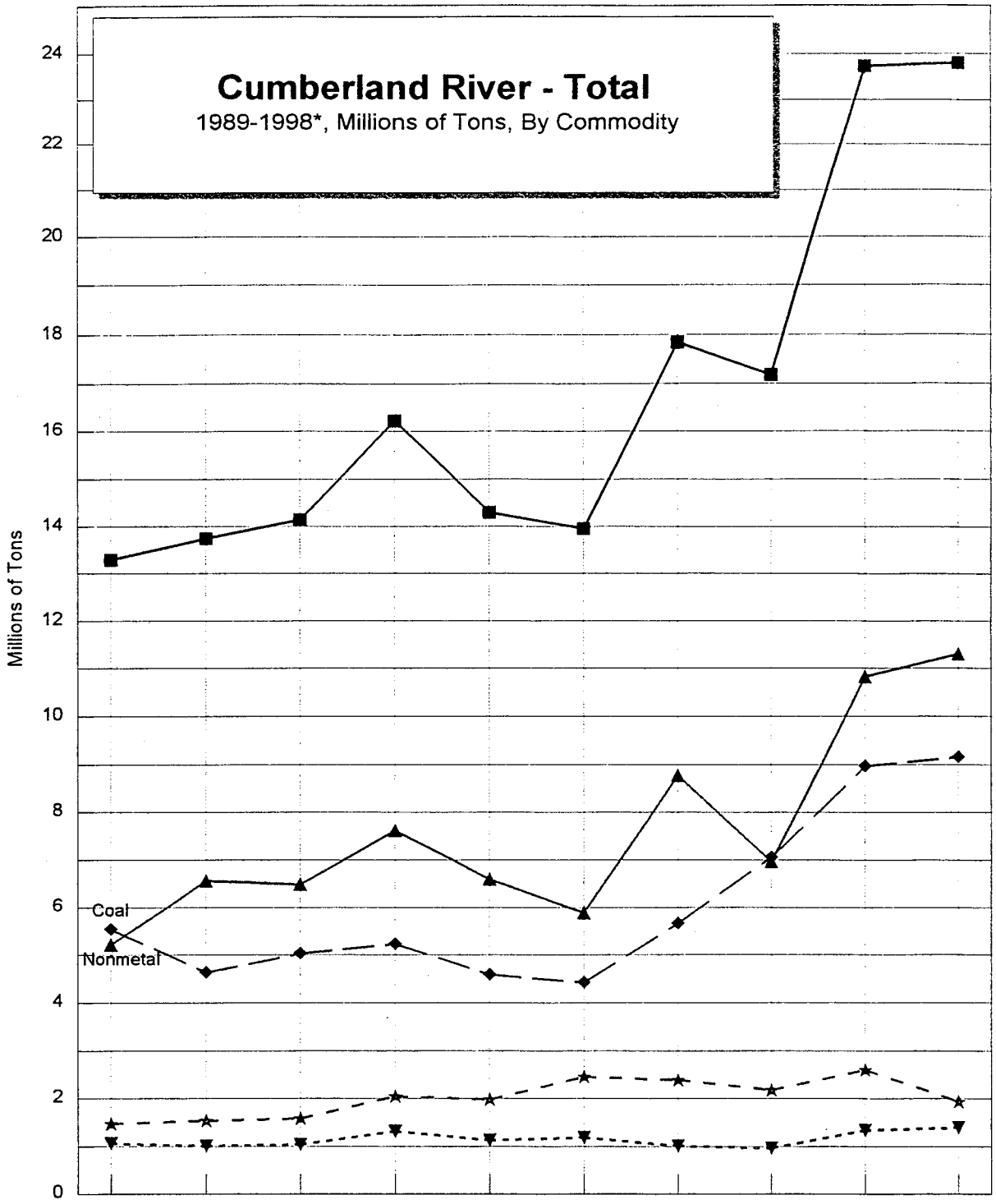



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 14.67 | 16.25 | 17.36 | 17.17 | 17.25 | 17.16 | 17.37 | 18.59 | 18.89 | 18.2 |
| ▲ Coal | 14.51 | 16.07 | 17.17 | 16.99 | 17.03 | 17.03 | 17.28 | 18.52 | 18.81 | 18.1 |
| ★ Other | 0.16 | 0.17 | 0.18 | 0.18 | 0.22 | 0.12 | 0.09 | 0.07 | 0.08 | 0.1 |



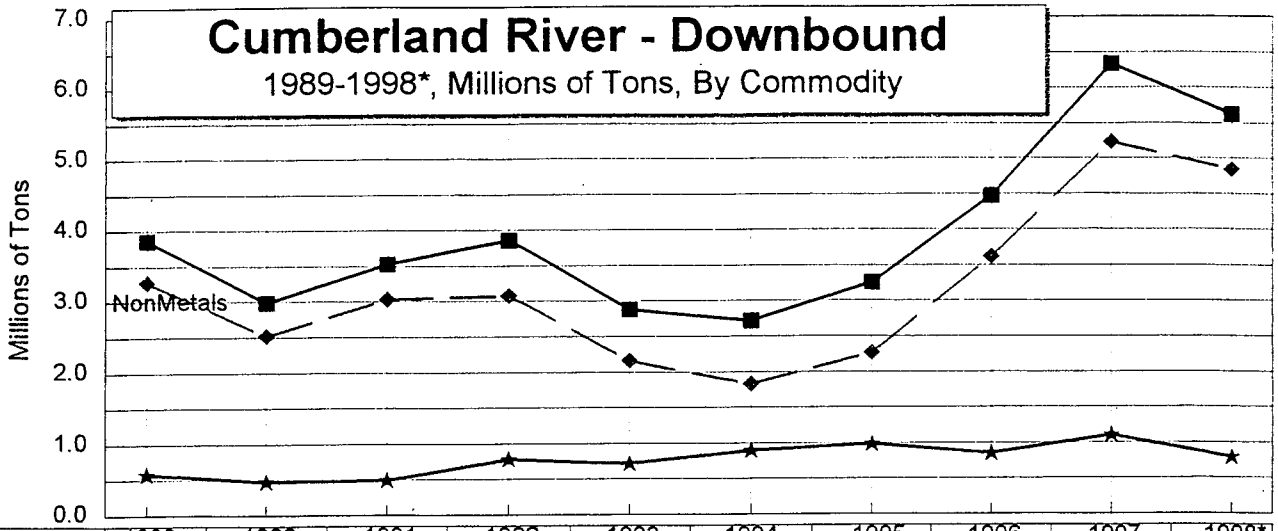

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 4.24 | 4.70 | 4.25 | 4.65 | 5.06 | 5.13 | 5.69 | 6.20 | 5.90 | 5.0 |
| ◆ Nonmetal | 2.23 | 2.52 | 2.22 | 2.58 | 3.09 | 3.20 | 3.63 | 4.03 | 3.79 | 3.2 |
| ▼ Petro | 1.00 | 1.17 | 1.11 | 1.14 | 1.06 | 1.02 | 1.17 | 1.14 | 1.08 | 1.1 |
| ✕ Chemical | 0.80 | 0.76 | 0.71 | 0.76 | 0.75 | 0.79 | 0.75 | 0.76 | 0.50 | 0.5 |
| ★ Other | 0.20 | 0.26 | 0.20 | 0.18 | 0.16 | 0.12 | 0.14 | 0.28 | 0.52 | 0.2 |

7-09-99 *Estimate



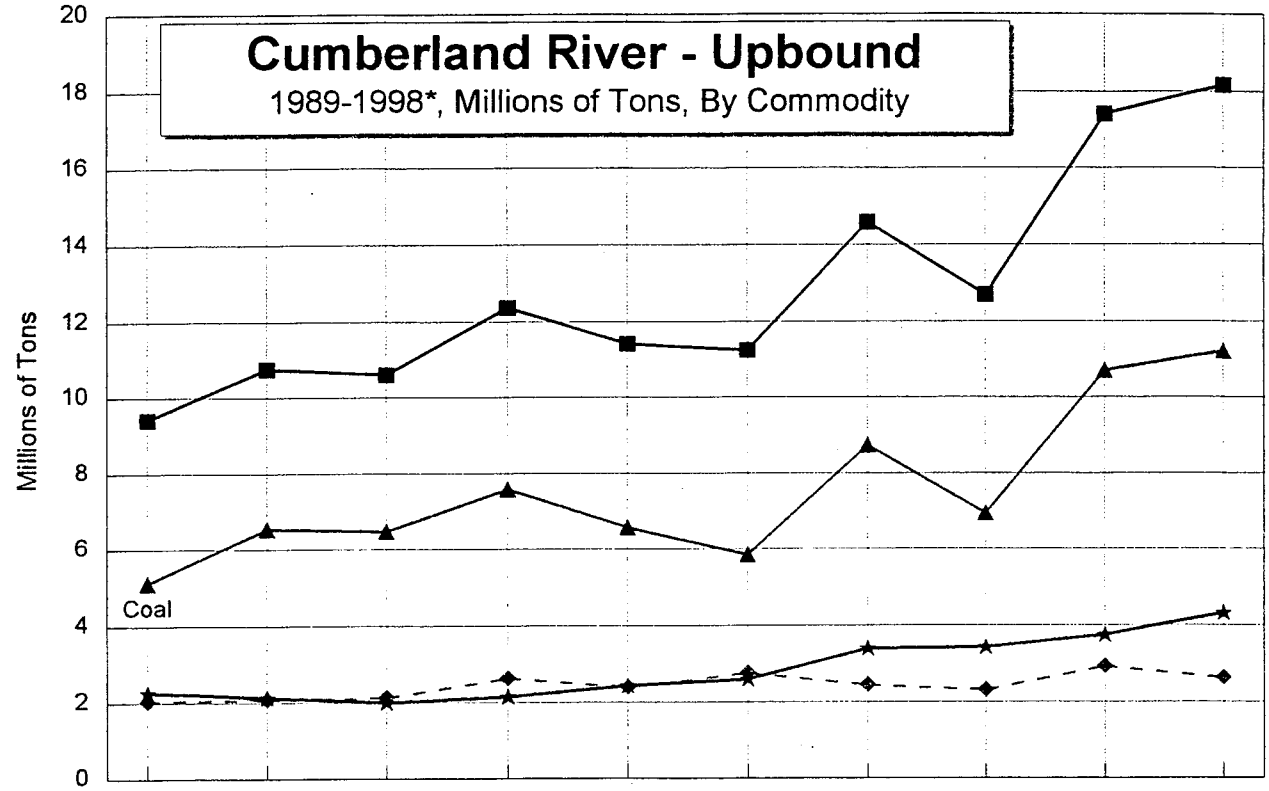

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 13.29 | 13.74 | 14.14 | 16.22 | 14.29 | 13.95 | 17.84 | 17.17 | 23.74 | 23.8 |
| ▲Coal | 5.21 | 6.55 | 6.48 | 7.61 | 6.59 | 5.88 | 8.77 | 6.96 | 10.82 | 11.3 |
| ◆Nonmetal | 5.54 | 4.64 | 5.04 | 5.24 | 4.59 | 4.43 | 5.66 | 7.06 | 8.98 | 9.2 |
| ★Other | 1.47 | 1.54 | 1.58 | 2.05 | 1.98 | 2.45 | 2.39 | 2.18 | 2.60 | 1.9 |
| ▼Petro & Chem | 1.07 | 1.01 | 1.05 | 1.32 | 1.13 | 1.19 | 1.01 | 0.97 | 1.34 | 1.4 |

6-24-99 *Estimated



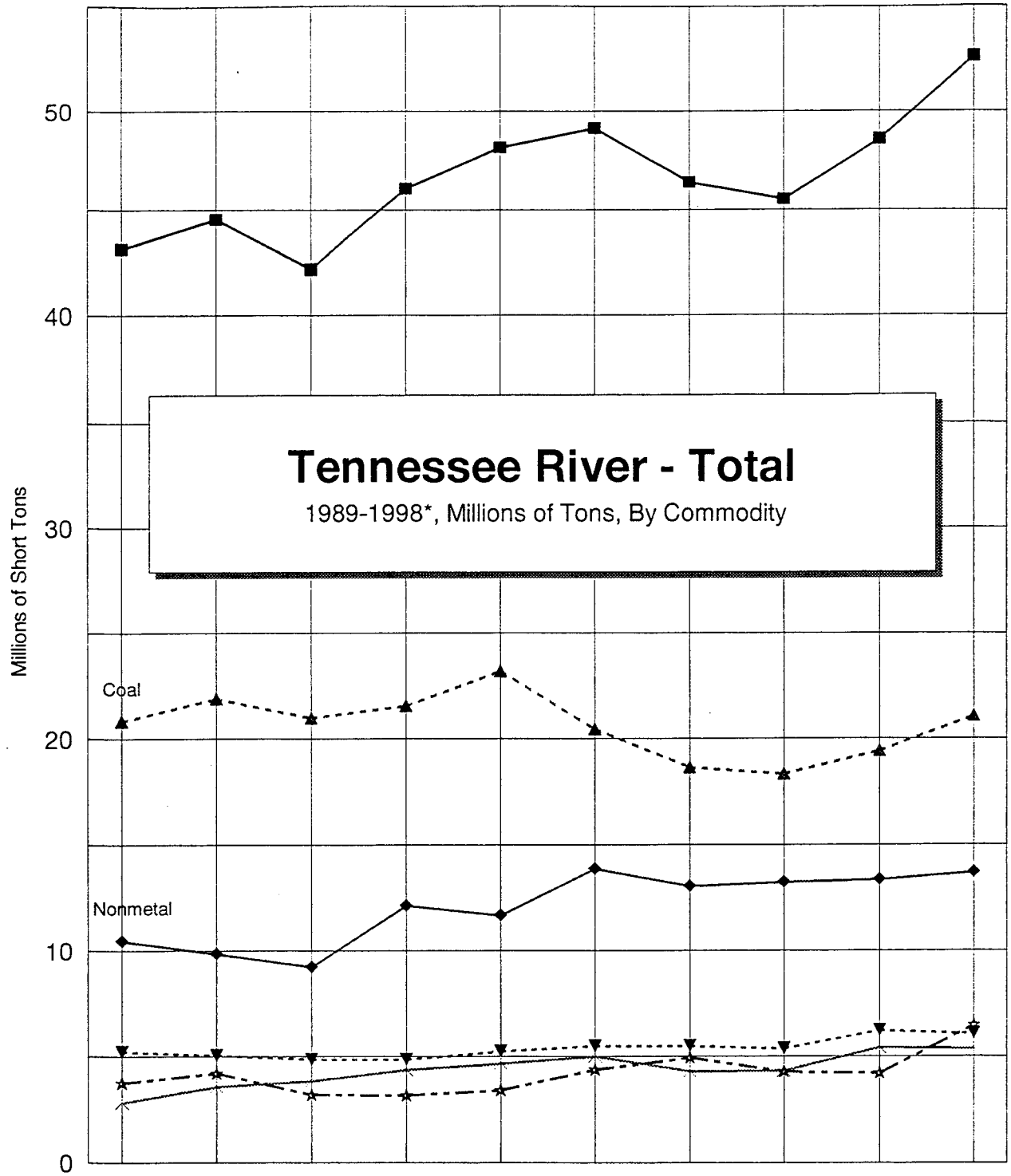

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.86 | 2.98 | 3.52 | 3.86 | 2.88 | 2.72 | 3.26 | 4.47 | 6.33 | 5.6 |
| ◆ Nonmetal | 3.28 | 2.51 | 3.04 | 3.08 | 2.16 | 1.82 | 2.27 | 3.62 | 5.23 | 4.8 |
| ★ Other | 0.59 | 0.47 | 0.49 | 0.78 | 0.72 | 0.89 | 0.99 | 0.85 | 1.10 | 0.8 |

6-24-99 *Estimated




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 9.42 | 10.76 | 10.61 | 12.36 | 11.42 | 11.24 | 14.58 | 12.70 | 17.40 | 18.2 |
| ▲ Coal | 5.13 | 6.55 | 6.48 | 7.58 | 6.58 | 5.86 | 8.73 | 6.94 | 10.71 | 11.2 |
| ◆ Nonmetal | 2.04 | 2.08 | 2.14 | 2.63 | 2.40 | 2.77 | 2.45 | 2.31 | 2.94 | 2.6 |
| ★ Other | 2.26 | 2.13 | 2.00 | 2.16 | 2.43 | 2.61 | 3.39 | 3.44 | 3.75 | 4.3 |

6-24-99 *Estimated

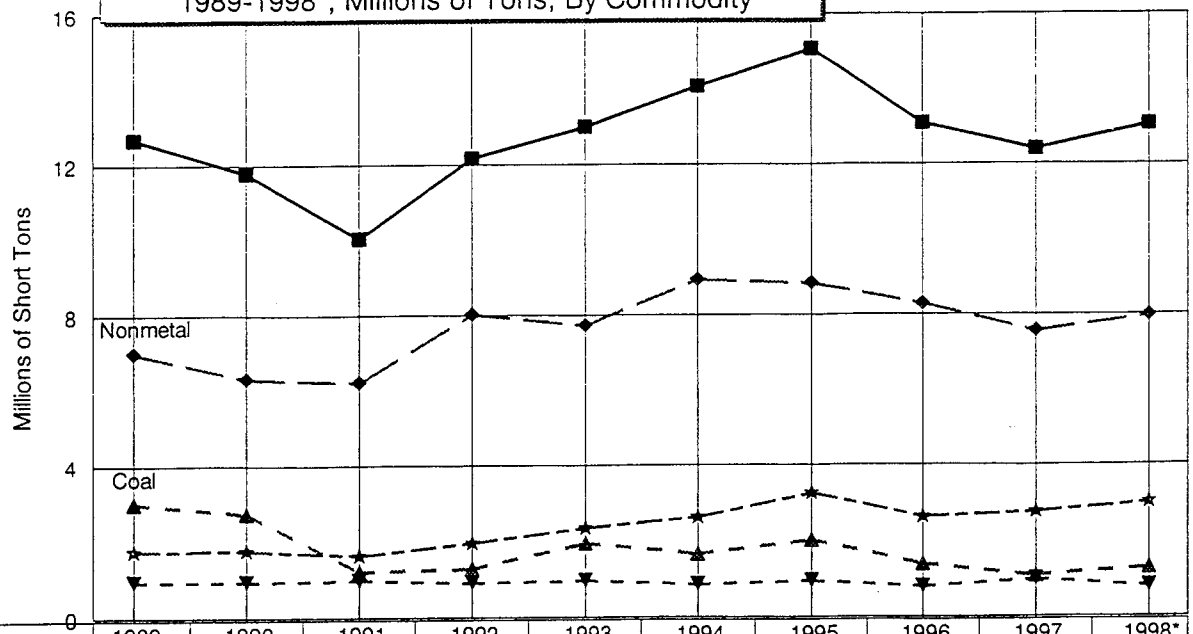



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 43.06 | 44.51 | 42.09 | 46.08 | 48.16 | 49.14 | 46.39 | 45.53 | 48.61 | 52.6 |
| ▲Coal | 20.82 | 21.88 | 20.97 | 21.56 | 23.18 | 20.43 | 18.66 | 18.32 | 19.44 | 21.1 |
| ◆Nonmetal | 10.44 | 9.84 | 9.22 | 12.12 | 11.64 | 13.86 | 13.04 | 13.24 | 13.35 | 13.7 |
| ▼Petro & Chem | 5.21 | 5.03 | 4.86 | 4.87 | 5.25 | 5.47 | 5.48 | 5.36 | 6.20 | 6.1 |
| ★Other | 3.75 | 4.20 | 3.20 | 3.16 | 3.43 | 4.38 | 4.92 | 4.28 | 4.22 | 6.4 |
| Farm | 2.84 | 3.57 | 3.83 | 4.37 | 4.66 | 5.00 | 4.29 | 4.32 | 5.40 | 5.4 |

7-14-99 *Estimated

## Tennessee River - Downbound

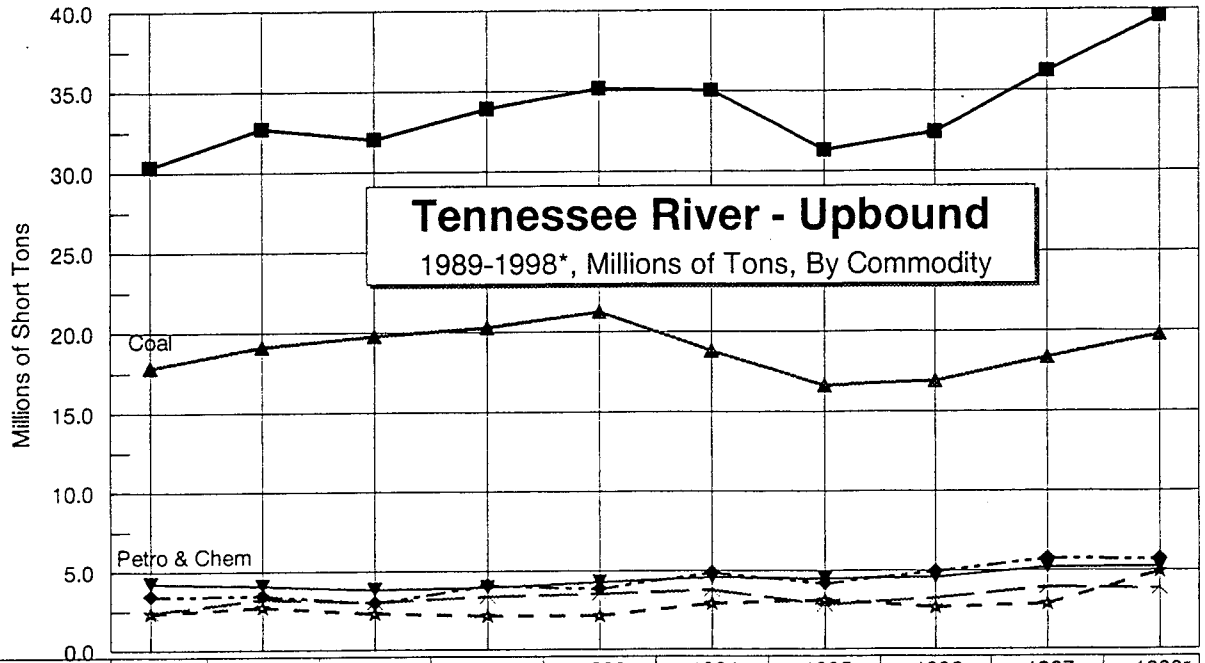
1989-1998*, Millions of Tons, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 12.70 | 11.78 | 10.05 | 12.18 | 13.00 | 14.10 | 15.07 | 13.08 | 12.39 | 13.0 |
| ◆ Nonmetal | 7.00 | 6.32 | 6.22 | 8.02 | 7.74 | 8.95 | 8.85 | 8.28 | 7.56 | 8.0 |
| ★ Other | 1.76 | 1.78 | 1.64 | 1.96 | 2.35 | 2.62 | 3.25 | 2.62 | 2.76 | 3.0 |
| ▲ Coal | 2.98 | 2.73 | 1.21 | 1.29 | 1.94 | 1.65 | 2.01 | 1.38 | 1.08 | 1.3 |
| ▼ Petro & Chem | 0.95 | 0.95 | 0.99 | 0.92 | 0.97 | 0.88 | 0.96 | 0.81 | 0.99 | 0.8 |

## Tennessee River - Upbound

1989-1998*, Millions of Tons, By Commodity

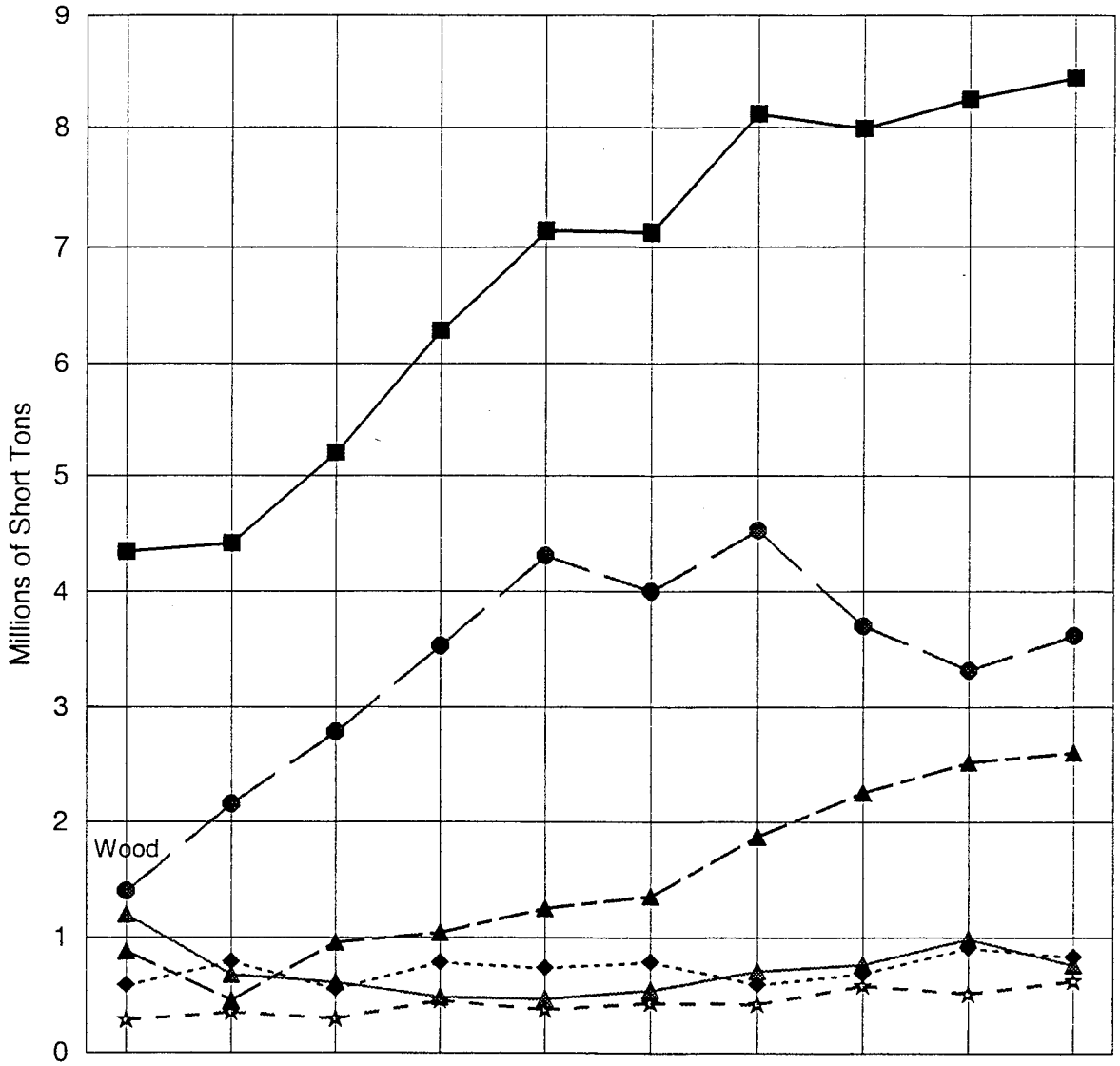



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 30.37 | 32.73 | 32.03 | 33.91 | 35.16 | 35.04 | 31.32 | 32.45 | 36.22 | 39.6 |
| ▲ Coal | 17.83 | 19.15 | 19.76 | 20.27 | 21.24 | 18.79 | 16.65 | 16.95 | 18.36 | 19.8 |
| ▼ Petro & Chem | 4.26 | 4.08 | 3.88 | 3.96 | 4.27 | 4.59 | 4.52 | 4.56 | 5.21 | 5.3 |
| ◆ Nonmetal | 3.44 | 3.51 | 3.00 | 4.10 | 3.91 | 4.91 | 4.18 | 4.96 | 5.79 | 5.7 |
| ★ Other | 2.39 | 2.72 | 2.33 | 2.18 | 2.15 | 2.95 | 3.13 | 2.70 | 2.90 | 4.9 |
| ⊹ Farm | 2.45 | 3.26 | 3.06 | 3.40 | 3.59 | 3.81 | 2.84 | 3.29 | 3.95 | 3.9 |

7-14-99 *Estimated

# Tennessee - Tombigbee Waterway

Total, 1989-1998*, Millions of Tons, By Commodity

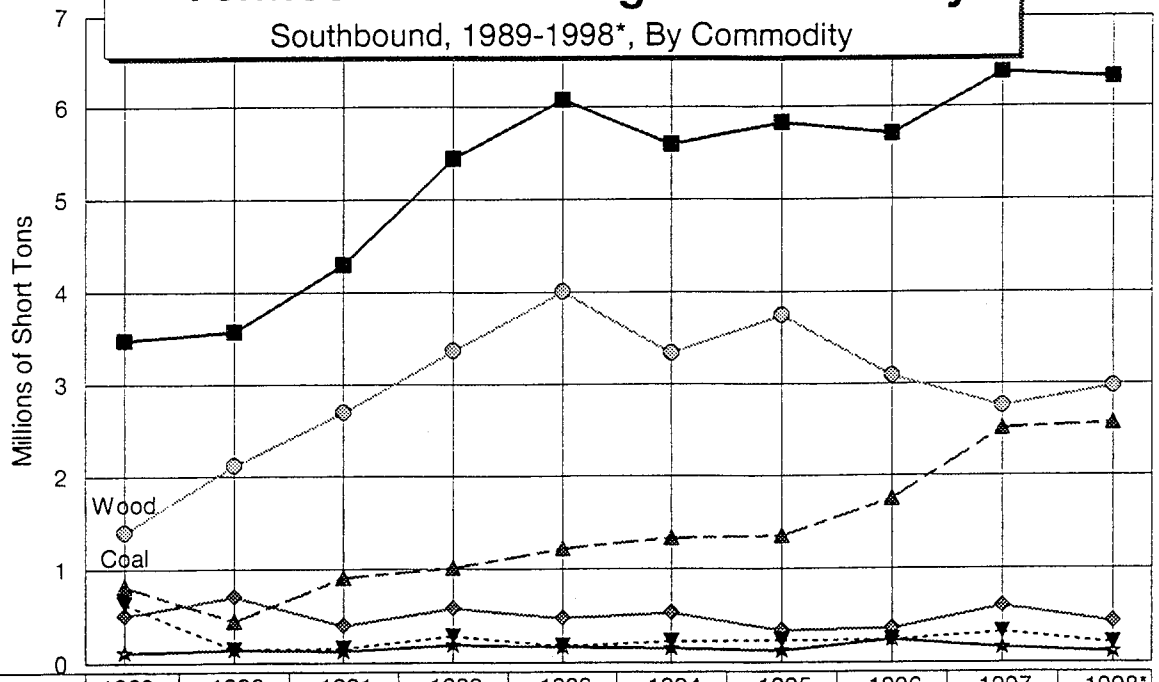



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 4.35 | 4.41 | 5.20 | 6.29 | 7.13 | 7.12 | 8.12 | 7.99 | 8.24 | 8.4 |
| ●Wood | 1.40 | 2.15 | 2.78 | 3.53 | 4.31 | 4.00 | 4.53 | 3.70 | 3.31 | 3.6 |
| ▲Coal | 0.88 | 0.45 | 0.96 | 1.04 | 1.25 | 1.36 | 1.87 | 2.25 | 2.52 | 2.6 |
| ▲Petro & Chem | 1.20 | 0.68 | 0.61 | 0.49 | 0.47 | 0.54 | 0.71 | 0.77 | 0.99 | 0.8 |
| ◆Nonmetal | 0.59 | 0.79 | 0.55 | 0.78 | 0.73 | 0.78 | 0.59 | 0.69 | 0.91 | 0.8 |
| ★Other | 0.28 | 0.35 | 0.30 | 0.45 | 0.37 | 0.43 | 0.42 | 0.58 | 0.51 | 0.6 |

7-14-99 *Estimated

# Tennessee - Tombigbee Waterway

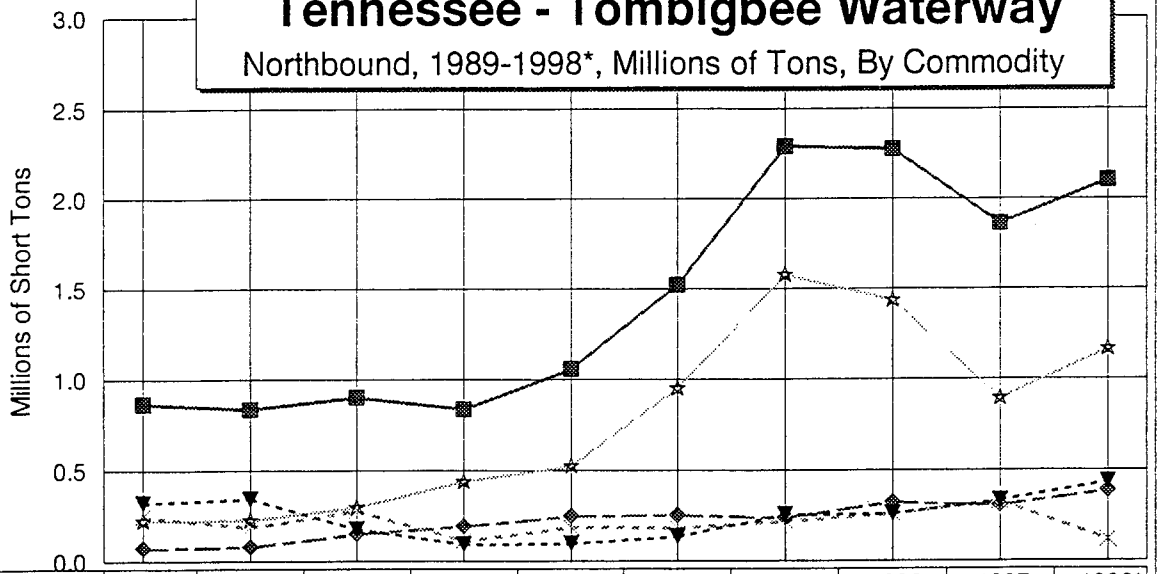
Southbound, 1989-1998*, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.48 | 3.58 | 4.30 | 5.45 | 6.08 | 5.60 | 5.83 | 5.71 | 6.38 | 6.3 |
| ◍ Wood | 1.40 | 2.12 | 2.70 | 3.37 | 4.01 | 3.35 | 3.75 | 3.10 | 2.76 | 3.0 |
| ▲ Coal | 0.82 | 0.45 | 0.91 | 1.02 | 1.22 | 1.33 | 1.36 | 1.75 | 2.52 | 2.6 |
| ◆ Nonmetal | 0.51 | 0.71 | 0.40 | 0.59 | 0.48 | 0.53 | 0.35 | 0.37 | 0.61 | 0.4 |
| ▼ Petro & Chem | 0.63 | 0.15 | 0.16 | 0.28 | 0.18 | 0.23 | 0.24 | 0.24 | 0.33 | 0.2 |
| ★ Other | 0.12 | 0.15 | 0.13 | 0.20 | 0.18 | 0.16 | 0.13 | 0.25 | 0.17 | 0.1 |

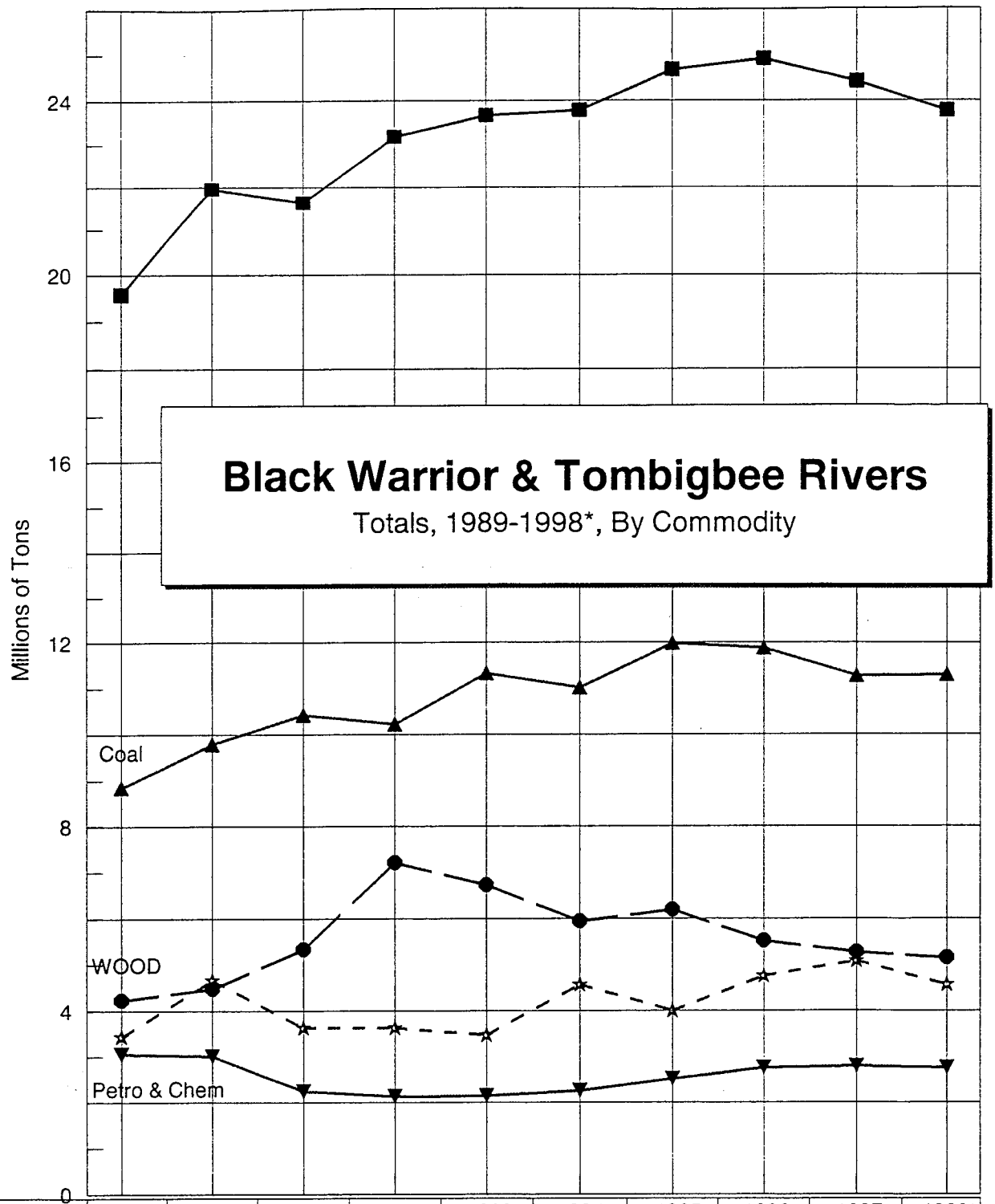
# Tennessee - Tombigbee Waterway

Northbound, 1989-1998*, Millions of Tons, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 0.87 | 0.84 | 0.90 | 0.84 | 1.06 | 1.52 | 2.29 | 2.28 | 1.86 | 2.1 |
| ★ Other | 0.22 | 0.23 | 0.30 | 0.44 | 0.52 | 0.95 | 1.58 | 1.44 | 0.90 | 1.2 |
| ◆ Nonmetal | 0.07 | 0.08 | 0.15 | 0.19 | 0.25 | 0.25 | 0.24 | 0.32 | 0.31 | 0.4 |
| ⟍ Chemical | 0.24 | 0.18 | 0.28 | 0.11 | 0.19 | 0.18 | 0.22 | 0.26 | 0.33 | 0.1 |
| ▼ Petro | 0.32 | 0.34 | 0.18 | 0.09 | 0.10 | 0.14 | 0.25 | 0.26 | 0.33 | 0.4 |

7-14-99 *Estimated

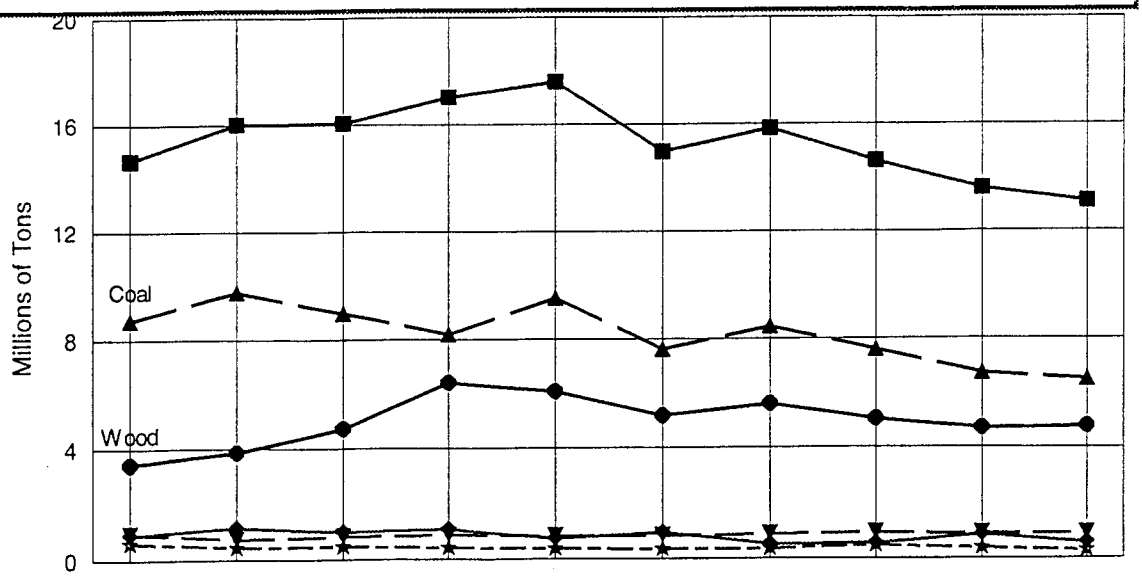



| Millions of Tons | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 19.57 | 21.95 | 21.63 | 23.19 | 23.67 | 23.78 | 24.67 | 24.91 | 24.41 | 23.8 |
| ▲Coal | 8.84 | 9.79 | 10.43 | 10.23 | 11.34 | 11.02 | 11.98 | 11.88 | 11.27 | 11.3 |
| ●Wood | 4.22 | 4.48 | 5.34 | 7.20 | 6.73 | 5.94 | 6.19 | 5.51 | 5.27 | 5.2 |
| ★Other | 3.44 | 4.66 | 3.63 | 3.63 | 3.47 | 4.57 | 3.99 | 4.76 | 5.08 | 4.6 |
| ▼Petro & Chem | 3.06 | 3.01 | 2.24 | 2.13 | 2.14 | 2.25 | 2.52 | 2.75 | 2.79 | 2.8 |

6-01-99 *Estimate

# Black Warrior & Tombigbee Rivers

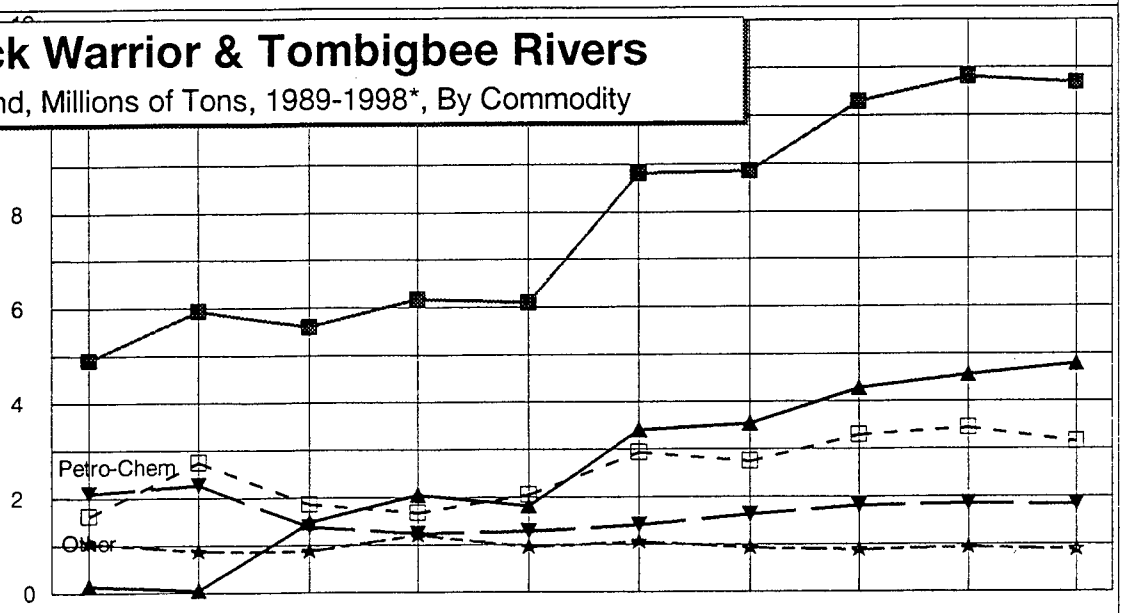
Downbound, Millions of Tons, 1989-1998*, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ TOTAL | 14.66 | 16.01 | 16.03 | 17.00 | 17.58 | 14.98 | 15.83 | 14.61 | 13.61 | 13.1 |
| ▲ Coal | 8.70 | 9.74 | 8.96 | 8.17 | 9.52 | 7.62 | 8.44 | 7.59 | 6.71 | 6.5 |
| ● Wood | 3.44 | 3.87 | 4.72 | 6.40 | 6.06 | 5.17 | 5.58 | 5.02 | 4.71 | 4.8 |
| ▼ Petro-Chem | 0.97 | 0.75 | 0.85 | 0.89 | 0.85 | 0.84 | 0.89 | 0.94 | 0.94 | 0.9 |
| ◆ Nonmetal | 0.91 | 1.19 | 1.01 | 1.11 | 0.75 | 0.97 | 0.55 | 0.56 | 0.87 | 0.6 |
| ★ Other | 0.63 | 0.47 | 0.49 | 0.43 | 0.39 | 0.38 | 0.37 | 0.50 | 0.39 | 0.3 |

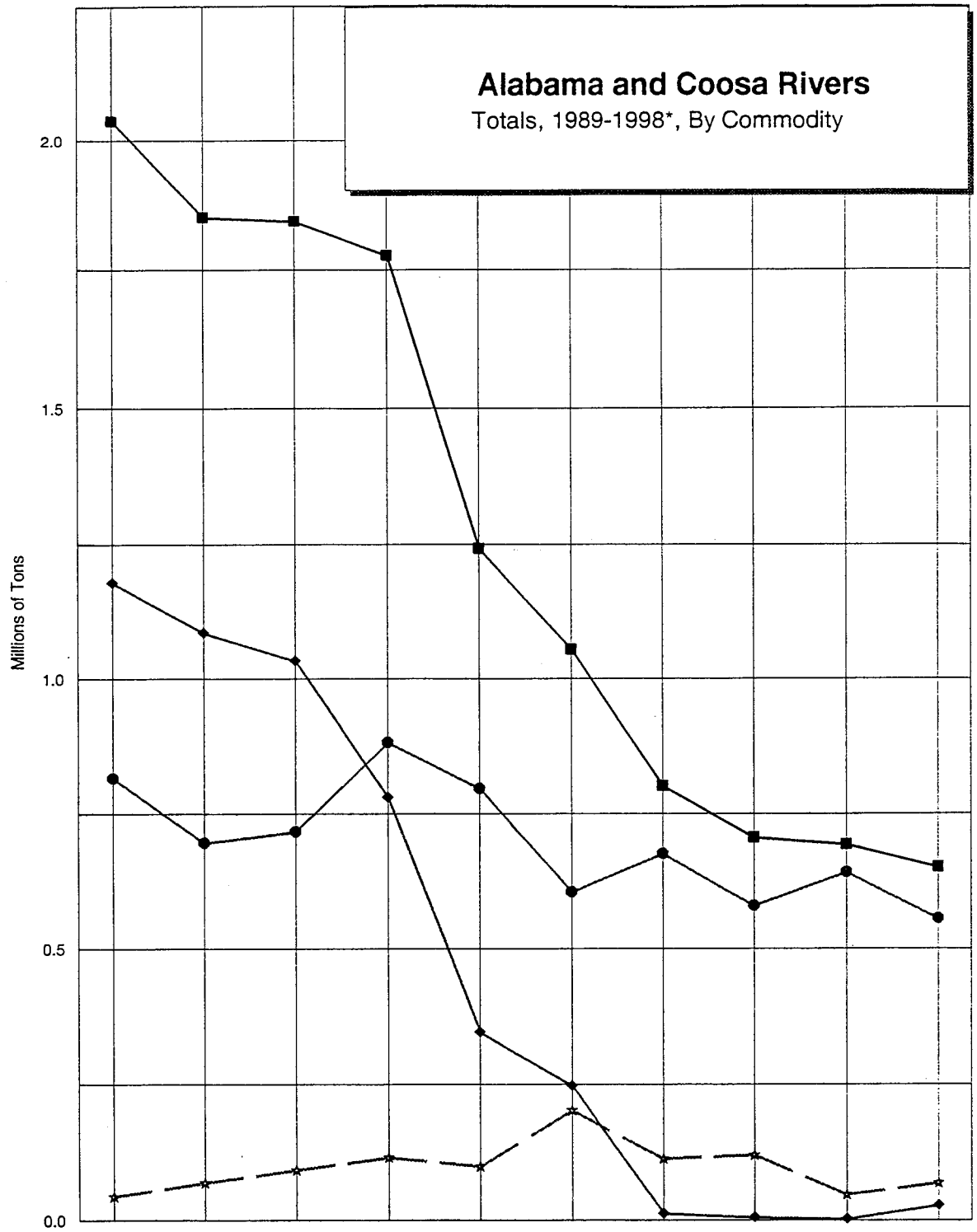
# Black Warrior & Tombigbee Rivers

Upbound, Millions of Tons, 1989-1998*, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 4.91 | 5.94 | 5.60 | 6.19 | 6.10 | 8.80 | 8.84 | 10.29 | 10.80 | 10.7 |
| ▲ Coal | 0.14 | 0.05 | 1.47 | 2.06 | 1.82 | 3.40 | 3.54 | 4.29 | 4.56 | 4.8 |
| ⊟ Metal | 1.63 | 2.74 | 1.87 | 1.68 | 2.05 | 2.94 | 2.74 | 3.30 | 3.44 | 3.2 |
| ▼ Petro & Chem | 2.09 | 2.26 | 1.38 | 1.24 | 1.28 | 1.41 | 1.63 | 1.81 | 1.85 | 1.8 |
| ★ Other | 1.05 | 0.88 | 0.88 | 1.22 | 0.95 | 1.06 | 0.94 | 0.90 | 0.94 | 0.9 |

6-01-99 *Estimate

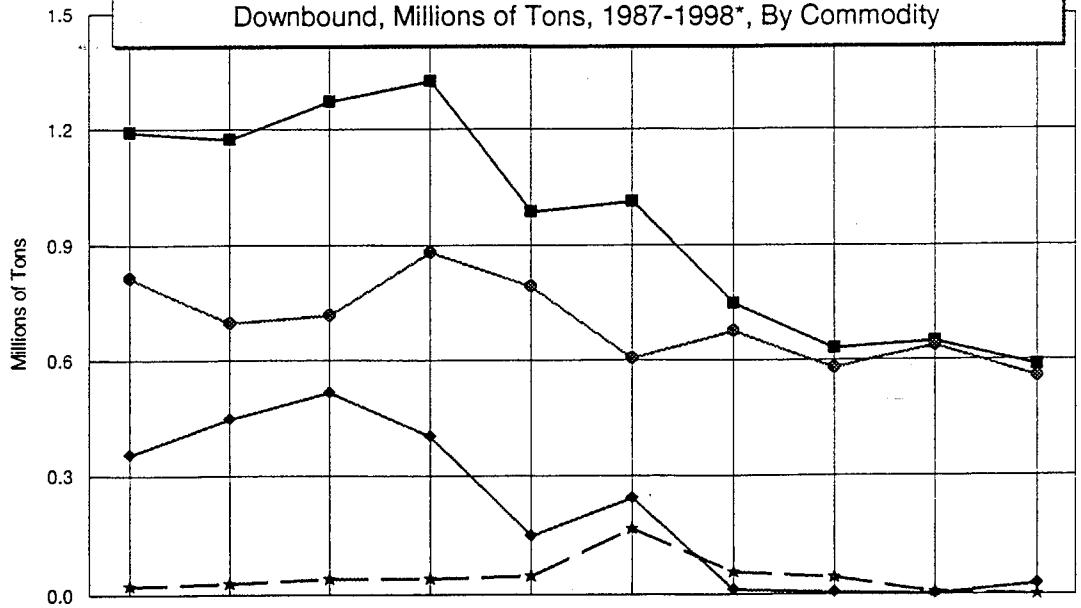



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 2.04 | 1.85 | 1.84 | 1.78 | 1.24 | 1.05 | 0.80 | 0.71 | 0.69 | 0.7 |
| ●Wood | 0.82 | 0.70 | 0.72 | 0.88 | 0.80 | 0.60 | 0.68 | 0.58 | 0.64 | 0.6 |
| ★Other | 0.04 | 0.07 | 0.09 | 0.12 | 0.10 | 0.20 | 0.11 | 0.12 | 0.05 | 0.1 |
| ◆Nonmetal | 1.18 | 1.08 | 1.03 | 0.78 | 0.35 | 0.25 | 0.01 | 0.01 | 0.00 | 0.0 |

6-01-99 *Estimated

# Alabama and Coosa Rivers

Downbound, Millions of Tons, 1987-1998*, By Commodity

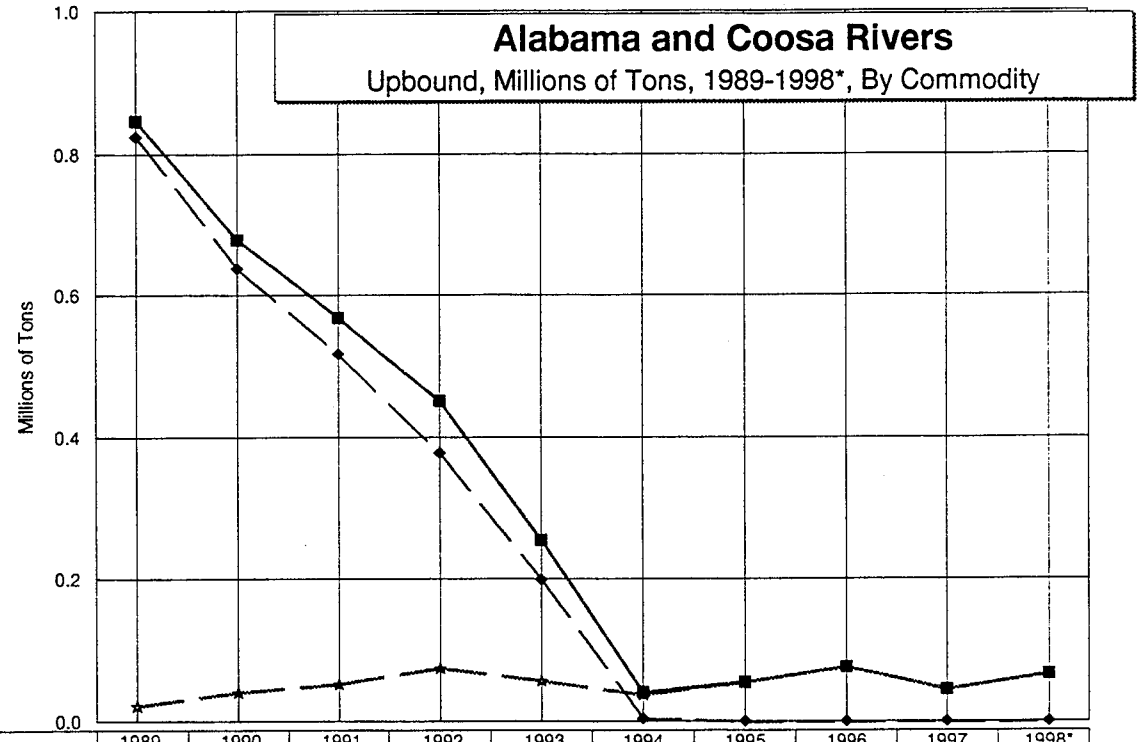



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 1.19 | 1.17 | 1.27 | 1.33 | 0.99 | 1.01 | 0.75 | 0.63 | 0.65 | 0.6 |
| ● Wood | 0.81 | 0.70 | 0.72 | 0.88 | 0.79 | 0.60 | 0.68 | 0.58 | 0.64 | 0.6 |
| ★ Other | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.17 | 0.06 | 0.04 | 0.01 | 0.0 |
| ◆ Nonmetal | 0.35 | 0.45 | 0.52 | 0.40 | 0.15 | 0.24 | 0.01 | 0.01 | 0.00 | 0.0 |

6-01-99 *Estimated

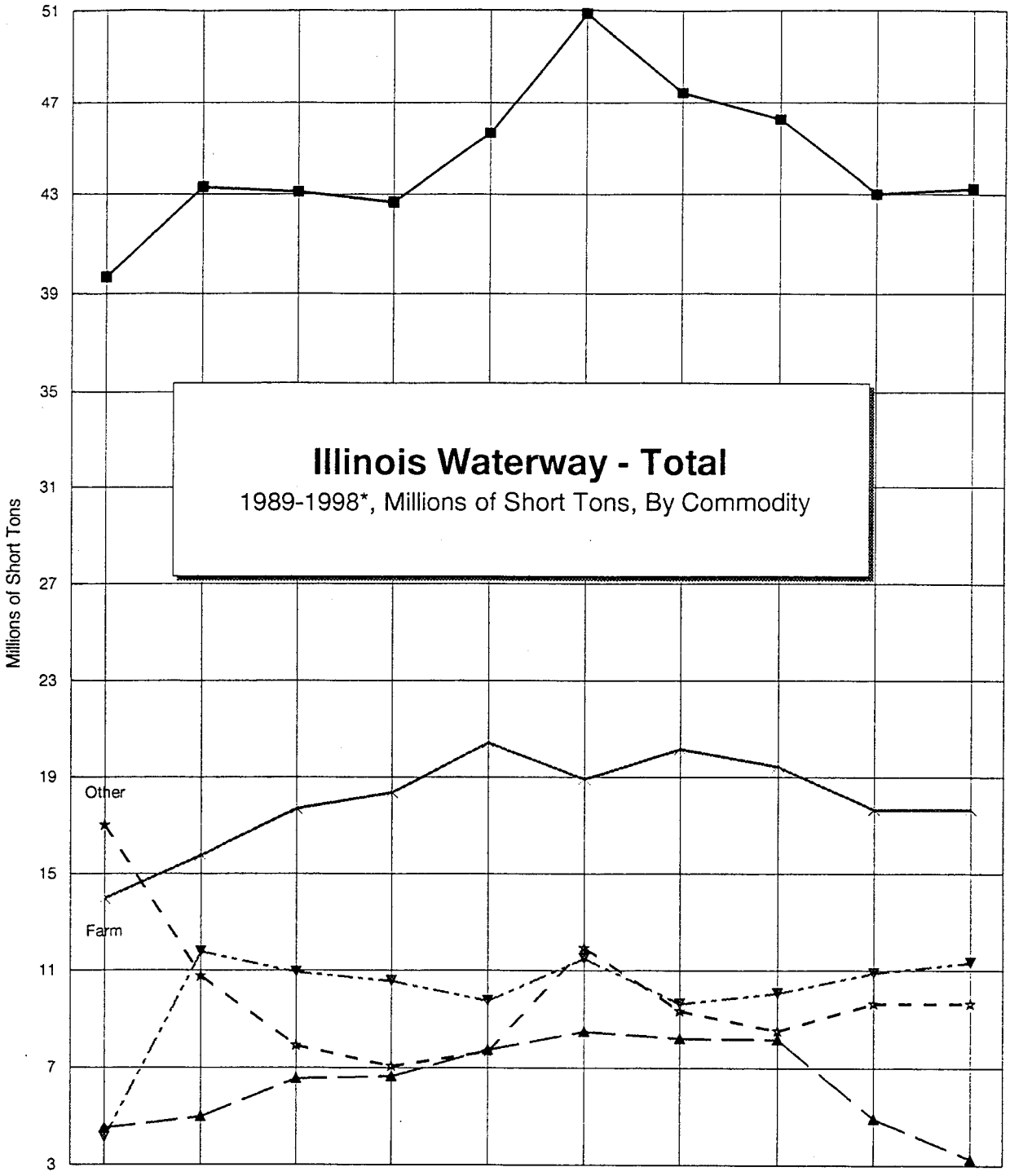
# Alabama and Coosa Rivers

Upbound, Millions of Tons, 1989-1998*, By Commodity



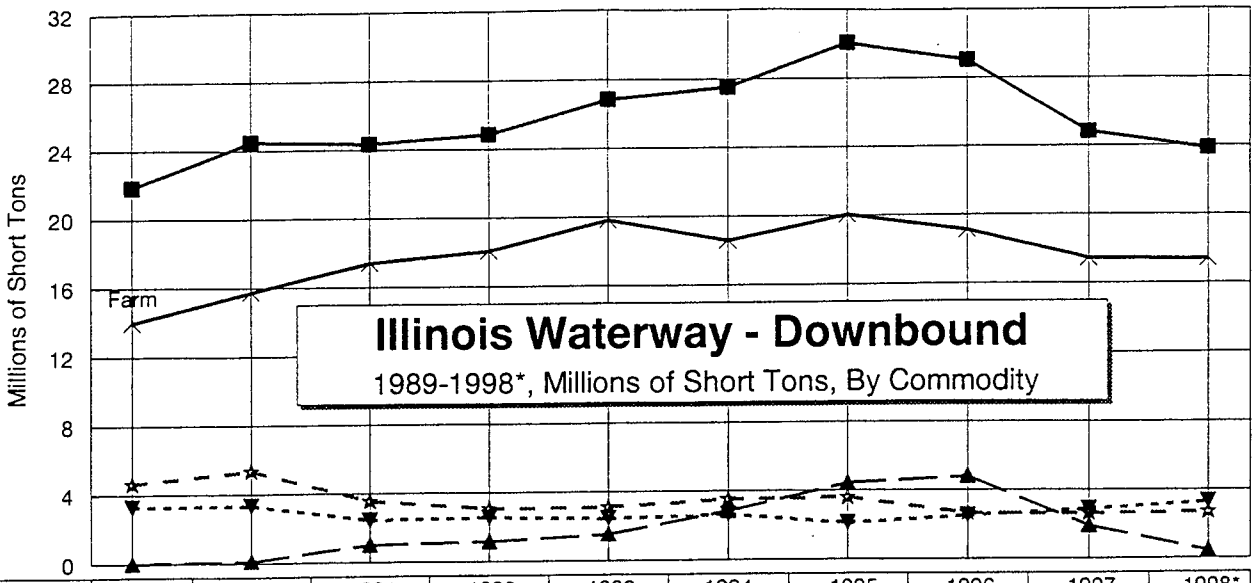

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 0.85 | 0.68 | 0.57 | 0.45 | 0.25 | 0.04 | 0.05 | 0.08 | 0.04 | 0.07 |
| ★ Other | 0.02 | 0.04 | 0.05 | 0.07 | 0.06 | 0.04 | 0.05 | 0.08 | 0.04 | 0.07 |
| ◆ Nonmetal | 0.82 | 0.64 | 0.52 | 0.38 | 0.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

6-01-99 *Estimated



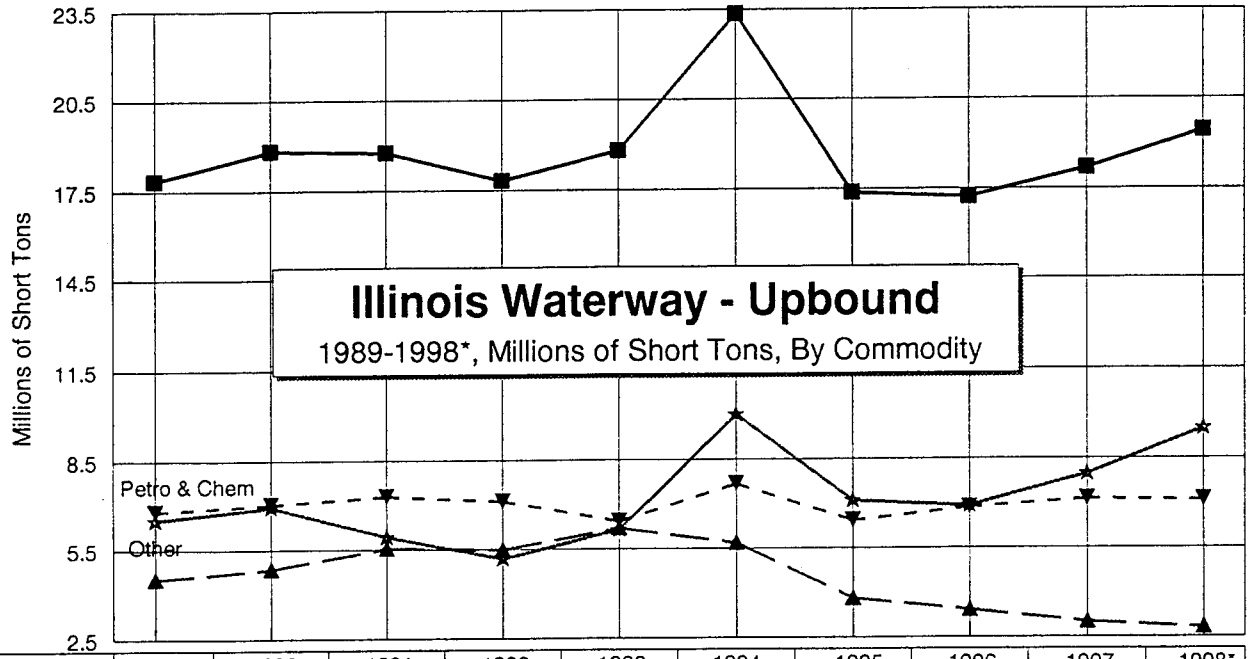

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 39.67 | 43.30 | 43.11 | 42.67 | 45.64 | 50.88 | 47.43 | 46.24 | 42.99 | 43.2 |
| ⸗ Farm | 13.99 | 15.74 | 17.68 | 18.35 | 20.43 | 18.91 | 20.17 | 19.42 | 17.64 | 17.7 |
| ★ Other | 17.01 | 10.77 | 7.92 | 7.08 | 7.68 | 11.93 | 9.35 | 8.53 | 9.65 | 9.7 |
| ▼ Petro & Chem | 4.15 | 11.79 | 10.94 | 10.58 | 9.78 | 11.51 | 9.67 | 10.08 | 10.89 | 11.3 |
| ▲ Coal | 4.53 | 4.99 | 6.56 | 6.66 | 7.75 | 8.53 | 8.24 | 8.20 | 4.94 | 3.3 |

7-20-99 *Estimated




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 21.83 | 24.46 | 24.34 | 24.86 | 26.84 | 27.50 | 30.05 | 29.02 | 24.81 | 23.8 |
| ✕ Farm | 13.94 | 15.72 | 17.37 | 18.08 | 19.81 | 18.56 | 20.00 | 19.10 | 17.42 | 17.4 |
| ▲ Coal | 0.00 | 0.12 | 1.02 | 1.16 | 1.54 | 2.82 | 4.41 | 4.77 | 1.91 | 0.4 |
| ★ Other | 4.61 | 5.32 | 3.51 | 3.07 | 3.07 | 3.50 | 3.56 | 2.64 | 2.63 | 2.7 |
| ▼ Petro | 3.28 | 3.31 | 2.43 | 2.55 | 2.42 | 2.63 | 2.08 | 2.50 | 2.86 | 3.3 |

7-20-99 *Estimated

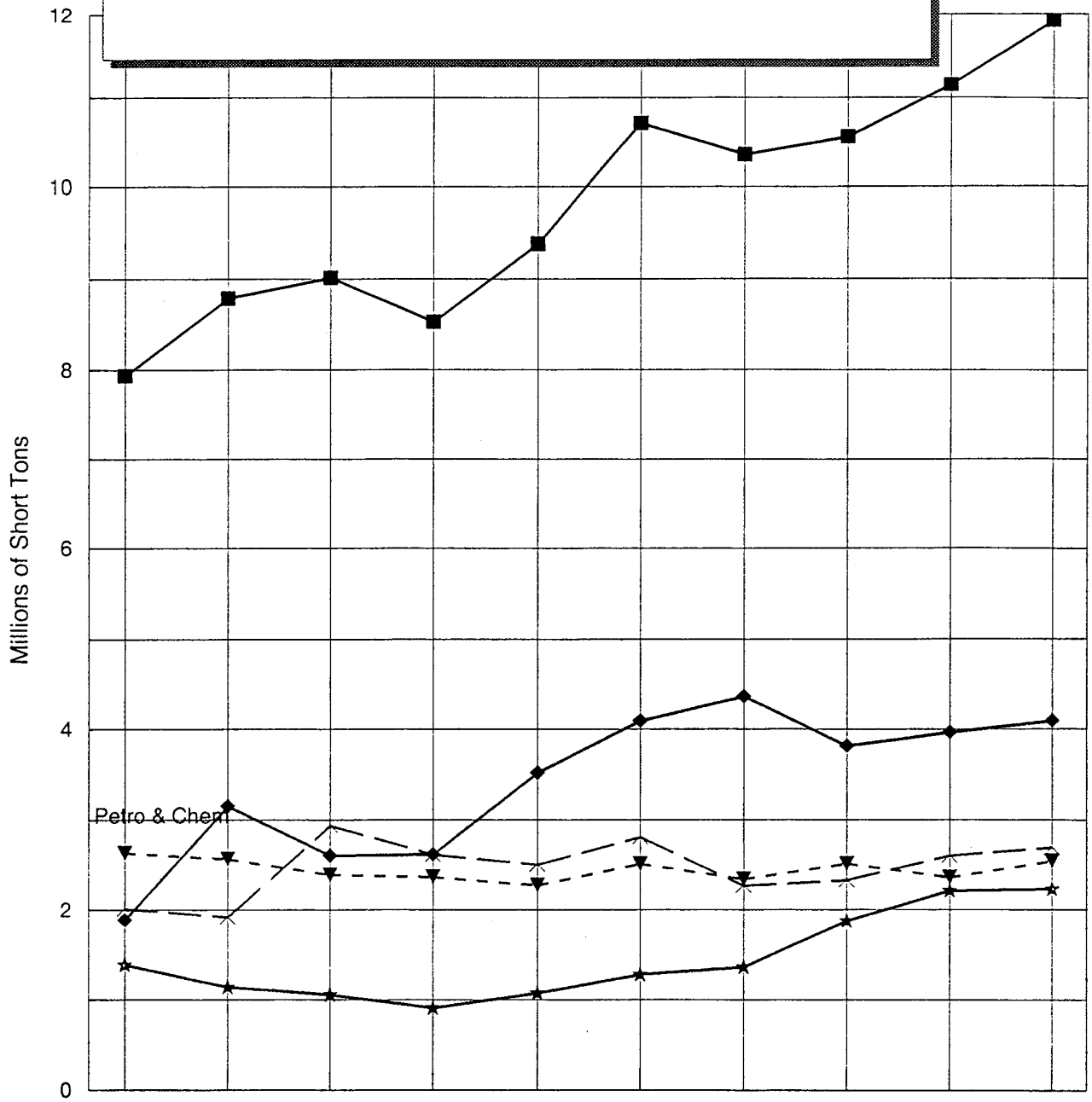



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 17.84 | 18.84 | 18.77 | 17.81 | 18.79 | 23.38 | 17.38 | 17.22 | 18.18 | 19.4 |
| ★ Other | 6.51 | 6.93 | 5.94 | 5.18 | 6.14 | 9.99 | 7.11 | 6.93 | 7.99 | 9.5 |
| ▼ Petro & Chem | 6.80 | 7.03 | 7.29 | 7.13 | 6.45 | 7.68 | 6.44 | 6.86 | 7.15 | 7.1 |
| ▲ Coal | 4.53 | 4.87 | 5.54 | 5.50 | 6.21 | 5.71 | 3.83 | 3.43 | 3.03 | 2.8 |

7-20-99 *Estimated

# McClellan-Kerr Waterway - Total

1989-1998*, Millions of Short Tons, By Commodity

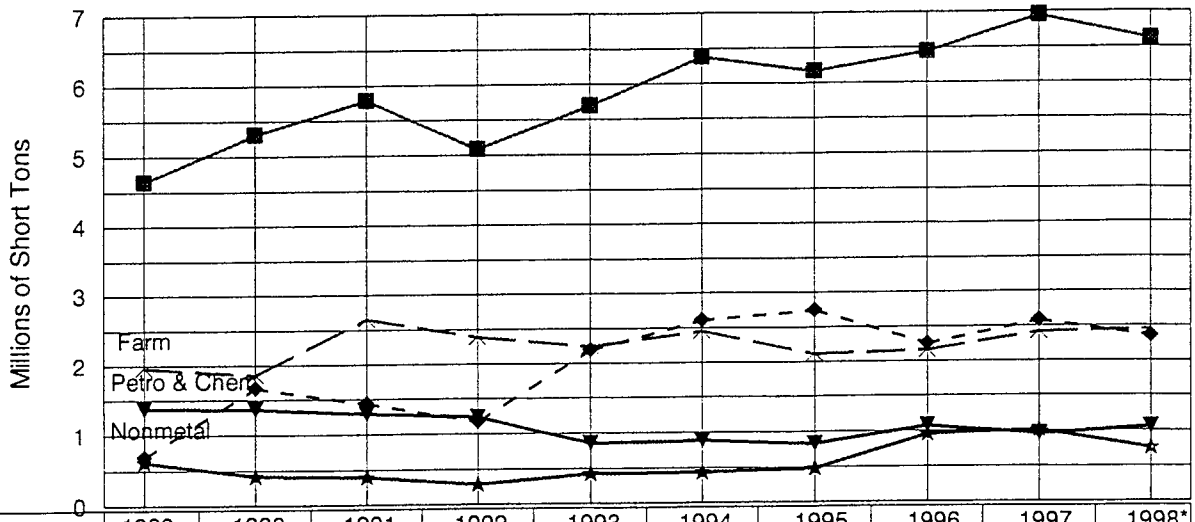



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 7.93 | 8.78 | 9.01 | 8.53 | 9.38 | 10.71 | 10.35 | 10.55 | 11.15 | 11.9 |
| ◆Nonmetal | 1.89 | 3.16 | 2.61 | 2.63 | 3.52 | 4.09 | 4.36 | 3.82 | 3.96 | 4.1 |
| ⅄Farm | 2.01 | 1.92 | 2.95 | 2.62 | 2.51 | 2.81 | 2.27 | 2.33 | 2.61 | 2.7 |
| ▼Petro & Chem | 2.64 | 2.57 | 2.40 | 2.37 | 2.28 | 2.52 | 2.35 | 2.52 | 2.37 | 2.5 |
| ☆Other | 1.39 | 1.13 | 1.06 | 0.90 | 1.07 | 1.28 | 1.36 | 1.88 | 2.21 | 2.2 |

6-02-99 *Estimated

# McClellan-Kerr Waterway - Downbound

1989-1998*, Millions of Short Tons, By Commodity

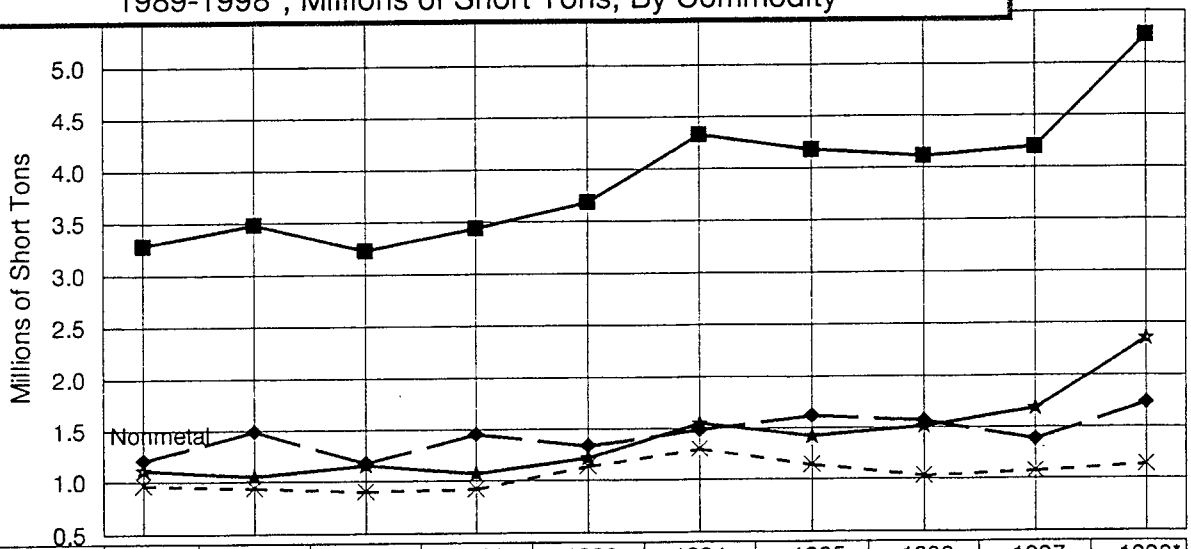



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 4.64 | 5.31 | 5.78 | 5.09 | 5.70 | 6.38 | 6.17 | 6.44 | 6.96 | 6.6 |
| ◆ Nonmetal | 0.68 | 1.67 | 1.44 | 1.18 | 2.18 | 2.61 | 2.75 | 2.25 | 2.58 | 2.4 |
| ⅄ Farm | 1.97 | 1.86 | 2.66 | 2.38 | 2.24 | 2.45 | 2.12 | 2.17 | 2.41 | 2.5 |
| ▼ Petro & Chem | 1.38 | 1.36 | 1.29 | 1.24 | 0.85 | 0.88 | 0.82 | 1.07 | 0.95 | 1.1 |
| ★ Other | 0.61 | 0.41 | 0.40 | 0.29 | 0.42 | 0.43 | 0.48 | 0.96 | 1.01 | 0.7 |

6-02-99 *Estimated

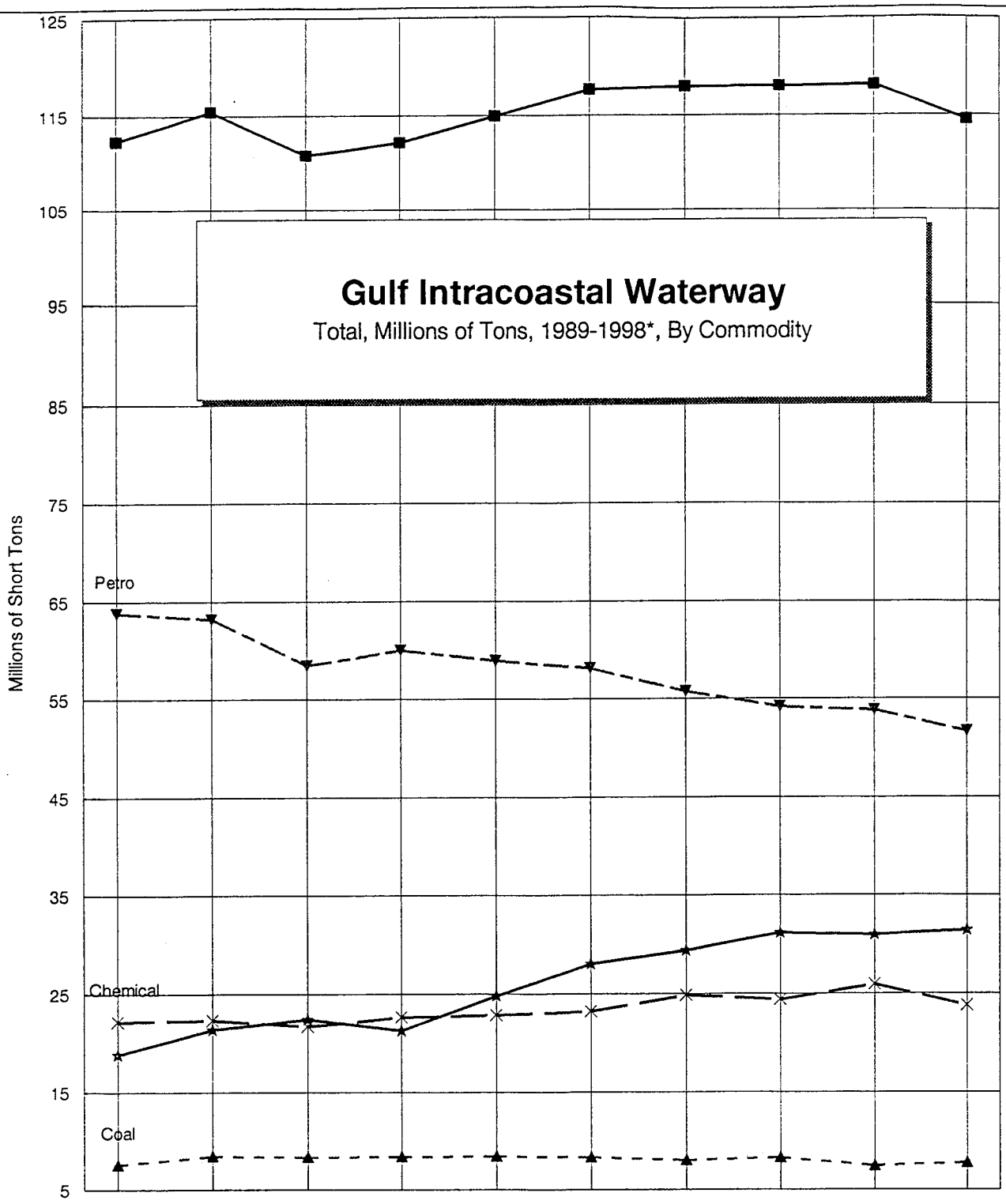
# McClellan-Kerr Waterway - Upbound

1989-1998*, Millions of Short Tons, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.29 | 3.48 | 3.23 | 3.44 | 3.68 | 4.33 | 4.18 | 4.11 | 4.19 | 5.3 |
| ◆ Nonmetal | 1.20 | 1.49 | 1.17 | 1.45 | 1.33 | 1.48 | 1.61 | 1.56 | 1.38 | 1.7 |
| ★ Other | 1.11 | 1.05 | 1.16 | 1.07 | 1.22 | 1.55 | 1.42 | 1.51 | 1.68 | 2.3 |
| ✕ Chemical | 0.97 | 0.94 | 0.90 | 0.92 | 1.13 | 1.30 | 1.15 | 1.03 | 1.08 | 1.1 |

6-02-99 *Estimated

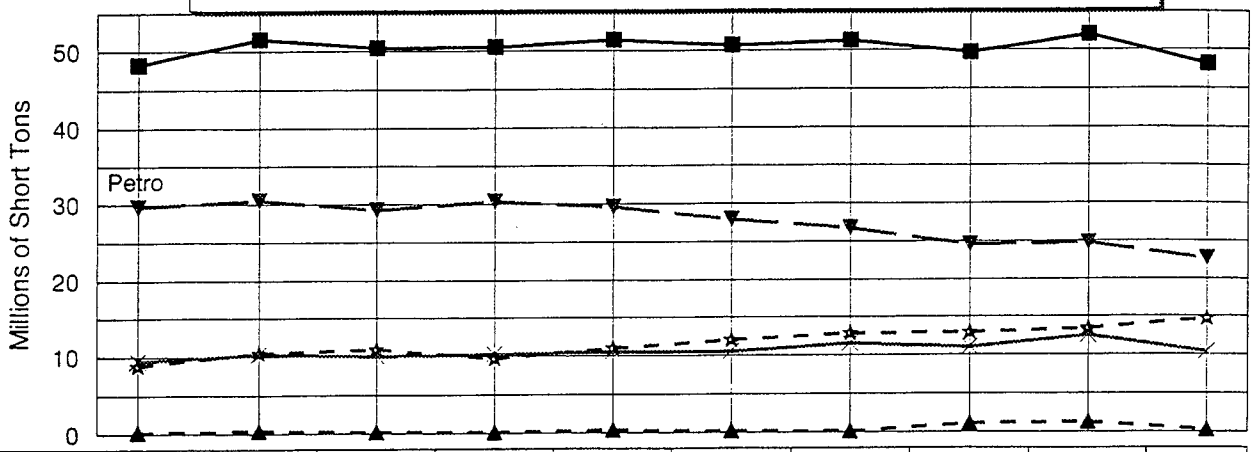



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 112.36 | 115.38 | 110.83 | 112.19 | 114.94 | 117.61 | 117.96 | 118.03 | 118.11 | 114.5 |
| ▼Petro | 63.76 | 63.19 | 58.38 | 59.93 | 58.89 | 58.06 | 55.69 | 54.18 | 53.80 | 51.6 |
| ☆Other | 18.87 | 21.41 | 22.39 | 21.26 | 24.80 | 28.02 | 29.42 | 31.17 | 30.96 | 31.4 |
| ×Chemical | 22.20 | 22.33 | 21.70 | 22.61 | 22.85 | 23.19 | 24.85 | 24.41 | 25.90 | 23.7 |
| ▲Coal | 7.52 | 8.45 | 8.35 | 8.38 | 8.41 | 8.34 | 8.01 | 8.27 | 7.44 | 7.7 |

7-19-99 Domestic Tonnage *Estimated

# Gulf Intracoastal Waterway

Westbound, Millions of Tons, 1989-1998*, By Commodity

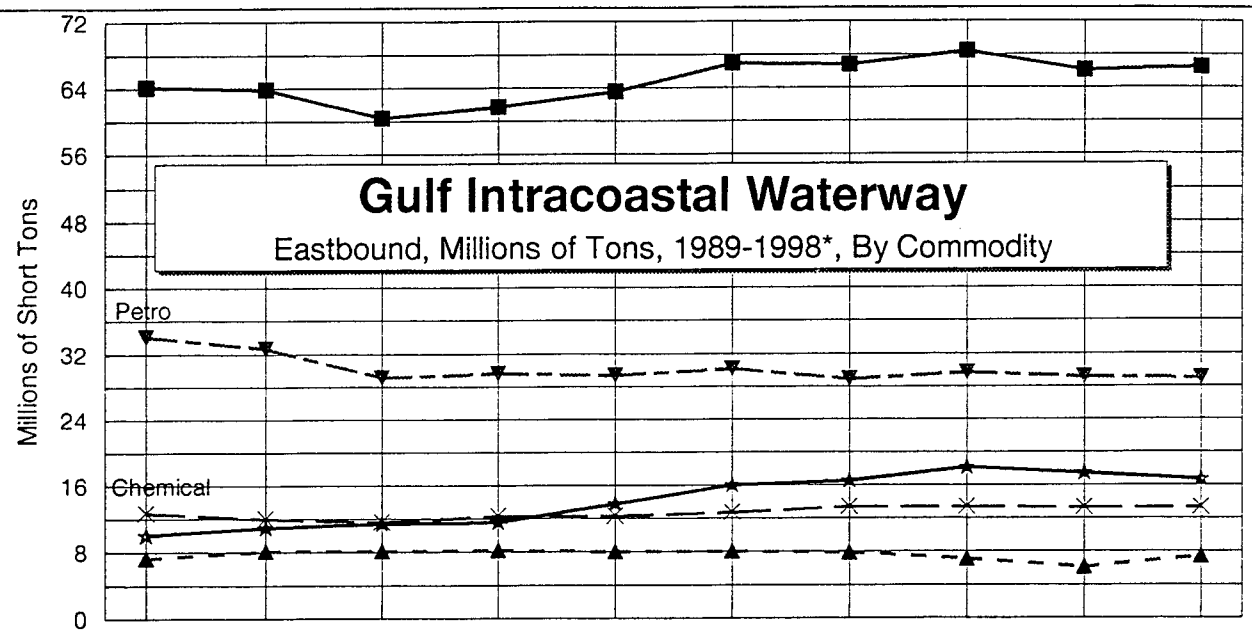



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 48.25 | 51.57 | 50.43 | 50.51 | 51.43 | 50.69 | 51.24 | 49.68 | 52.02 | 48.1 |
| ▼ Petro | 29.69 | 30.52 | 29.23 | 30.38 | 29.54 | 27.91 | 26.77 | 24.56 | 24.69 | 22.7 |
| ★ Other | 8.85 | 10.43 | 10.94 | 9.69 | 11.02 | 12.00 | 12.89 | 12.98 | 13.48 | 14.7 |
| ✕ Chemical | 9.45 | 10.27 | 10.03 | 10.28 | 10.51 | 10.50 | 11.47 | 10.99 | 12.54 | 10.4 |
| ▲ Coal | 0.26 | 0.35 | 0.23 | 0.16 | 0.36 | 0.27 | 0.11 | 1.16 | 1.31 | 0.3 |

7-19-99 Domestic Tonnage *Estimated

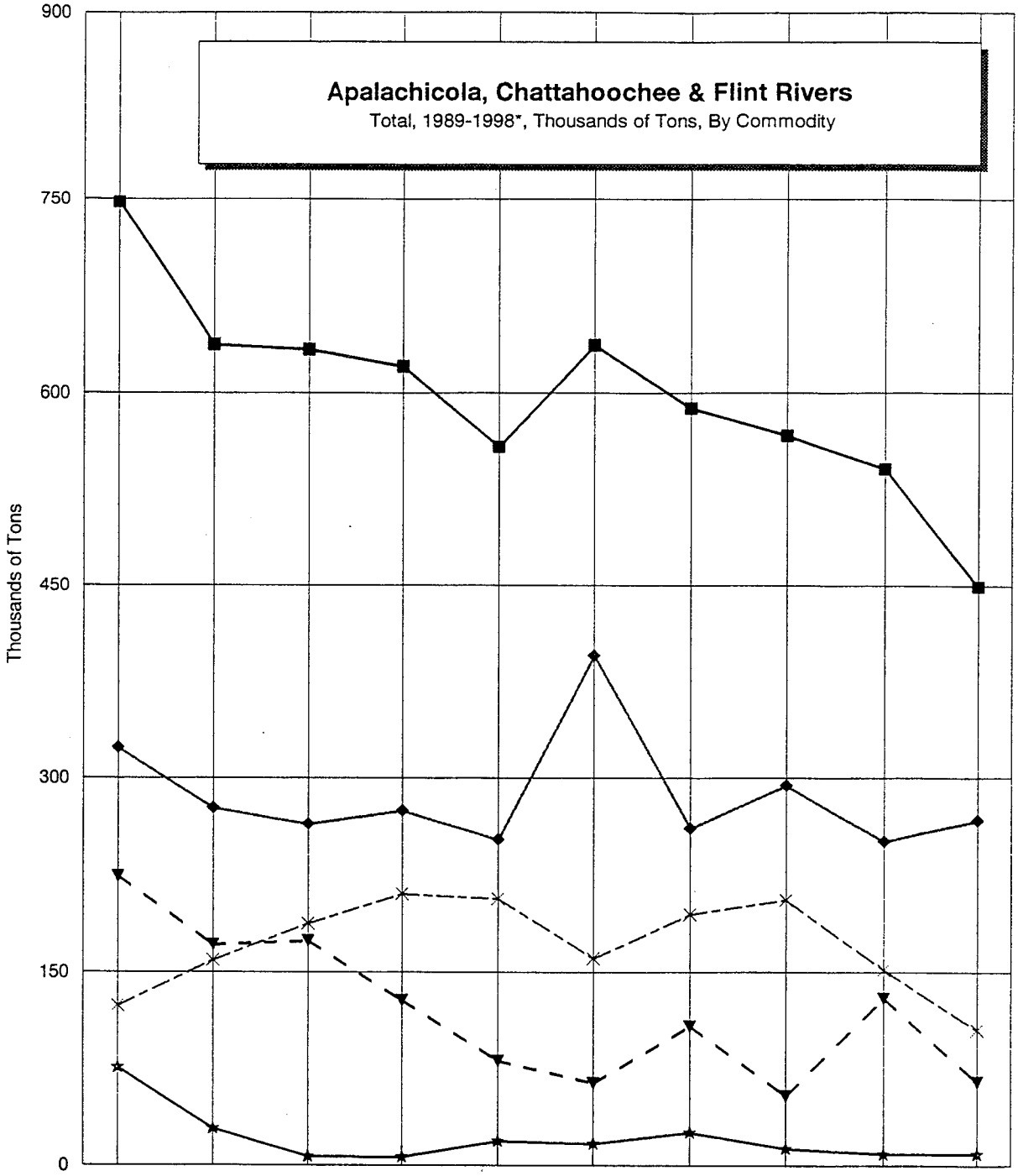
# Gulf Intracoastal Waterway

Eastbound, Millions of Tons, 1989-1998*, By Commodity



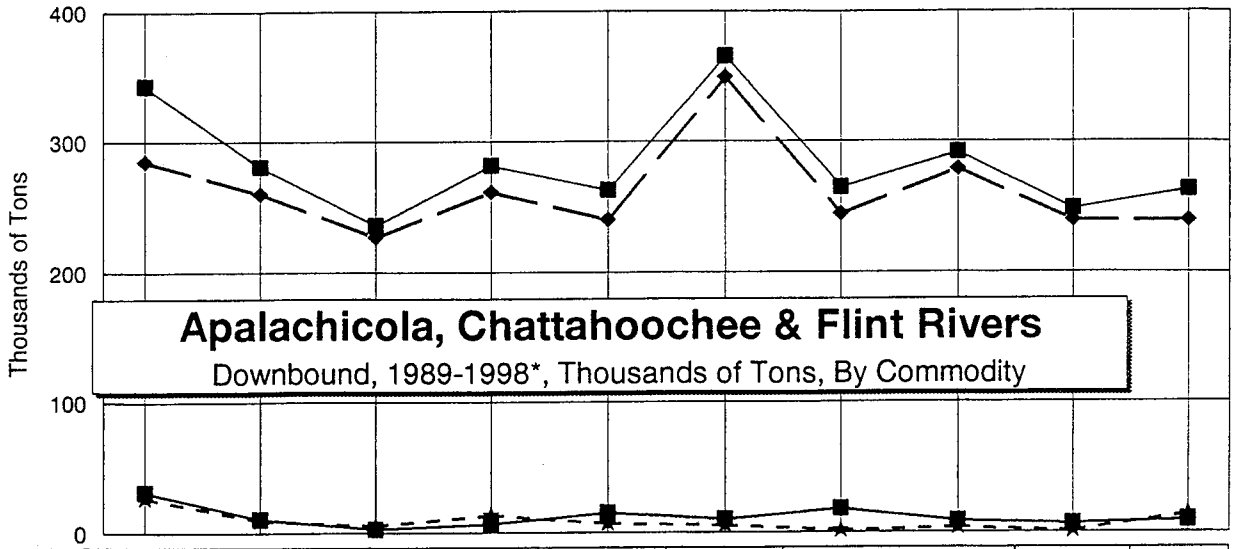

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 64.11 | 63.82 | 60.39 | 61.68 | 63.51 | 66.92 | 66.72 | 68.35 | 66.09 | 66.5 |
| ▼ Petro | 34.07 | 32.67 | 29.14 | 29.56 | 29.35 | 30.14 | 28.92 | 29.61 | 29.11 | 29.0 |
| ★ Other | 10.02 | 10.98 | 11.45 | 11.56 | 13.78 | 16.02 | 16.52 | 18.19 | 17.49 | 16.7 |
| ✕ Chemical | 12.75 | 12.06 | 11.67 | 12.34 | 12.33 | 12.69 | 13.38 | 13.43 | 13.36 | 13.4 |
| ▲ Coal | 7.26 | 8.10 | 8.12 | 8.22 | 8.05 | 8.07 | 7.89 | 7.11 | 6.13 | 7.4 |

7-19-99 Domestic Tonnage *Estimated



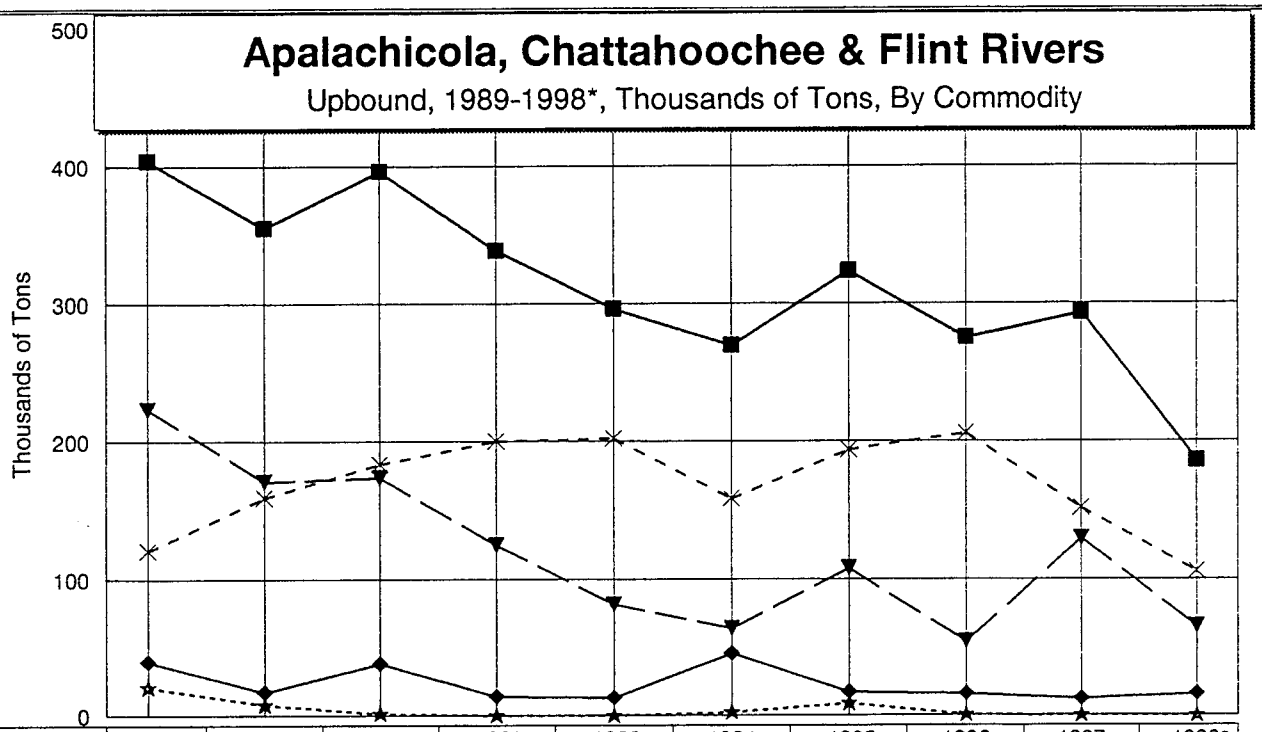

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 747 | 636 | 632 | 620 | 559 | 636 | 588 | 567 | 541 | 449 |
| ◆Nonmetal | 324 | 277 | 264 | 275 | 253 | 395 | 261 | 294 | 251 | 268 |
| ×Chemical | 124 | 159 | 187 | 210 | 206 | 160 | 194 | 206 | 152 | 105 |
| ▼Petro | 223 | 171 | 174 | 128 | 81 | 64 | 108 | 54 | 130 | 65 |
| ★Other | 76 | 29 | 7 | 7 | 19 | 17 | 26 | 13 | 9 | 9 |

6-02-99 *Estimated



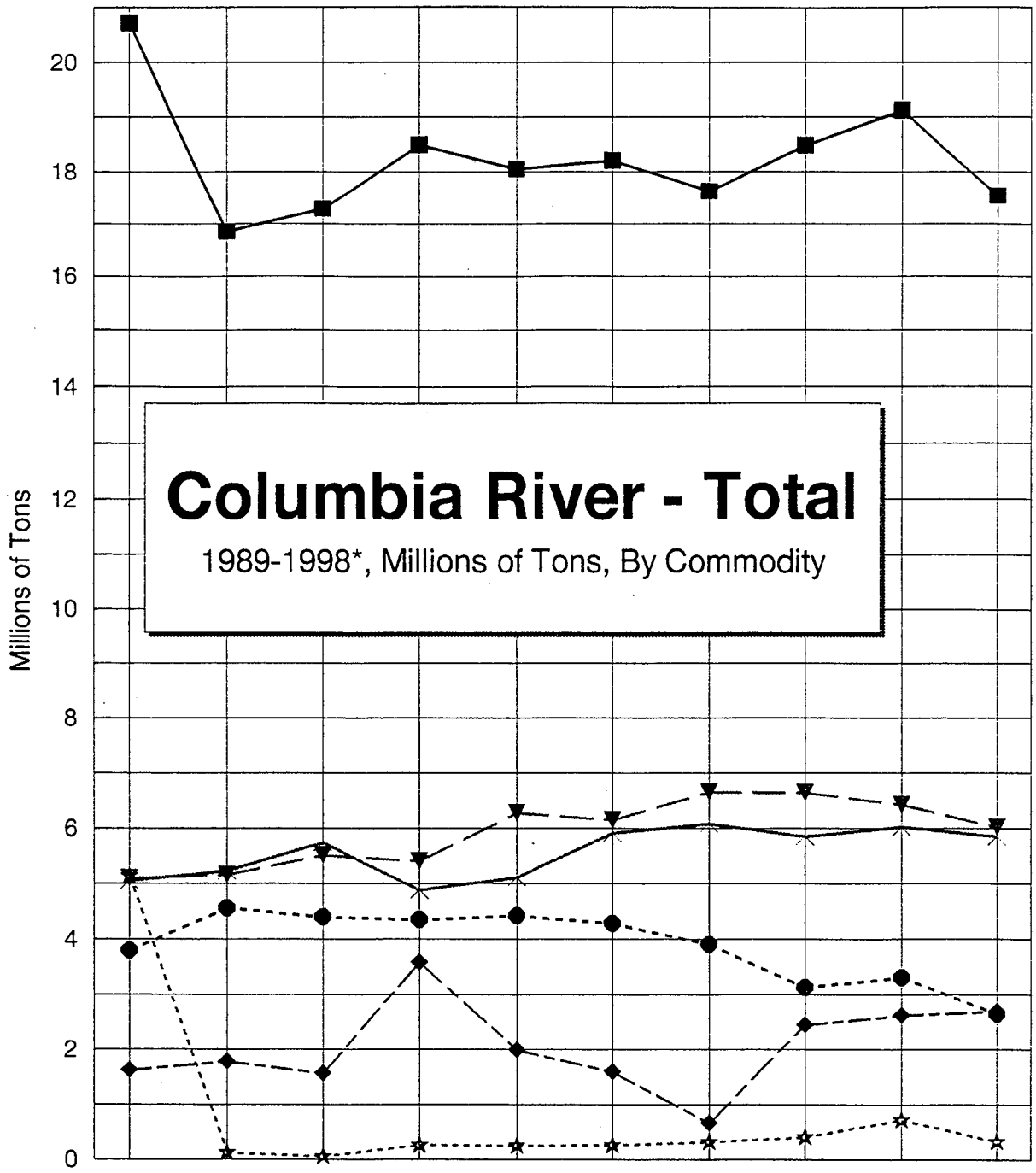

| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 343 | 281 | 236 | 282 | 263 | 366 | 265 | 292 | 248 | 263 |
| ◆ Nonmetal | 284 | 260 | 226 | 261 | 240 | 349 | 244 | 279 | 239 | 239 |
| ■ Farm | 31 | 11 | 3 | 7 | 15 | 10 | 19 | 9 | 7 | 10 |
| ★ Other | 27 | 10 | 6 | 14 | 8 | 6 | 2 | 4 | 2 | 14 |

6-02-99 *Estimated




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 404 | 355 | 396 | 338 | 296 | 270 | 324 | 276 | 293 | 186 |
| ✕ Chemical | 121 | 159 | 183 | 200 | 202 | 159 | 194 | 206 | 152 | 105 |
| ▼ Petro | 223 | 171 | 174 | 125 | 81 | 64 | 108 | 54 | 130 | 65 |
| ◆ Nonmetal | 39 | 17 | 38 | 14 | 13 | 45 | 17 | 15 | 12 | 16 |
| ★ Other | 21 | 8 | 1 | 0 | 0 | 2 | 9 | 0 | 0 | 0 |

6-02-99 *Estimated

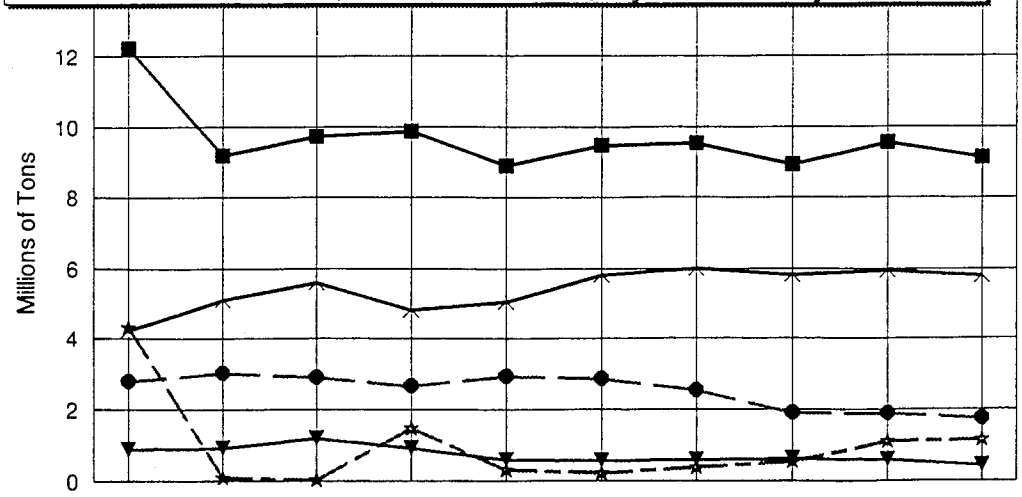



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 20.71 | 16.84 | 17.28 | 18.49 | 18.05 | 18.21 | 17.62 | 18.48 | 19.11 | 17.5 |
| ▼Petro & Chem | 5.10 | 5.16 | 5.52 | 5.40 | 6.28 | 6.15 | 6.65 | 6.64 | 6.43 | 6.0 |
| ⅄Farm | 5.05 | 5.23 | 5.75 | 4.88 | 5.11 | 5.91 | 6.07 | 5.86 | 6.02 | 5.8 |
| ●Wood | 3.80 | 4.55 | 4.39 | 4.35 | 4.41 | 4.28 | 3.90 | 3.13 | 3.32 | 2.6 |
| ◆Nonmetal | 1.62 | 1.78 | 1.56 | 3.58 | 1.99 | 1.60 | 0.66 | 2.44 | 2.63 | 2.7 |
| ★Other | 5.13 | 0.13 | 0.06 | 0.27 | 0.26 | 0.27 | 0.33 | 0.42 | 0.72 | 0.3 |

6-08-99 Domestic Tonnage *Estimated

# Columbia River - Downbound

1989-1998*, Millions of Tons, By Commodity

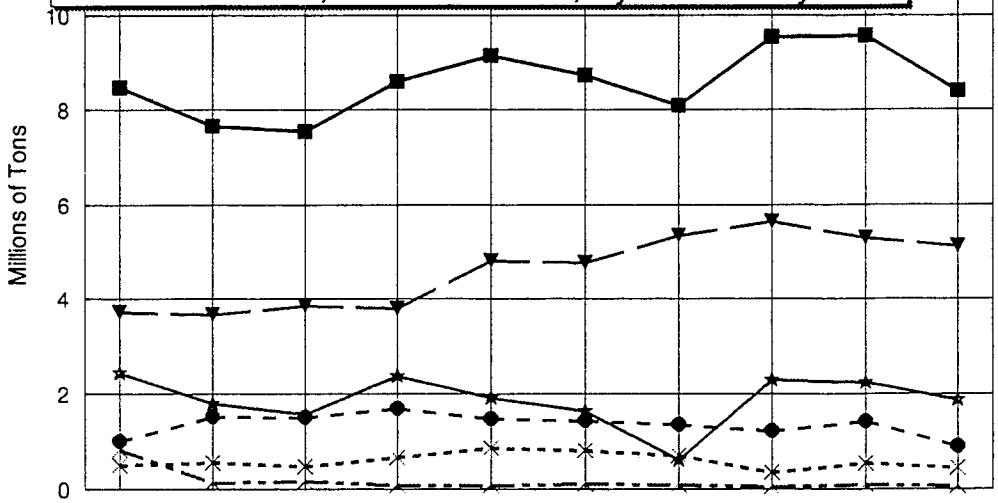



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 12.23 | 9.18 | 9.73 | 9.88 | 8.90 | 9.47 | 9.53 | 8.94 | 9.54 | 9.1 |
| ⅄ Farm | 4.23 | 5.10 | 5.59 | 4.80 | 5.03 | 5.81 | 5.99 | 5.81 | 5.93 | 5.8 |
| ● Wood | 2.79 | 3.03 | 2.89 | 2.66 | 2.94 | 2.85 | 2.54 | 1.92 | 1.89 | 1.8 |
| ▼ Petro & Chem | 0.89 | 0.94 | 1.20 | 0.94 | 0.61 | 0.59 | 0.61 | 0.65 | 0.60 | 0.5 |
| ★ Other | 4.31 | 0.11 | 0.05 | 1.48 | 0.32 | 0.23 | 0.39 | 0.56 | 1.11 | 1.1 |

6-08-99 Domestic Tonnage *Estimated

# Columbia River - Upbound

1989-1998*, Millions of Tons, By Commodity

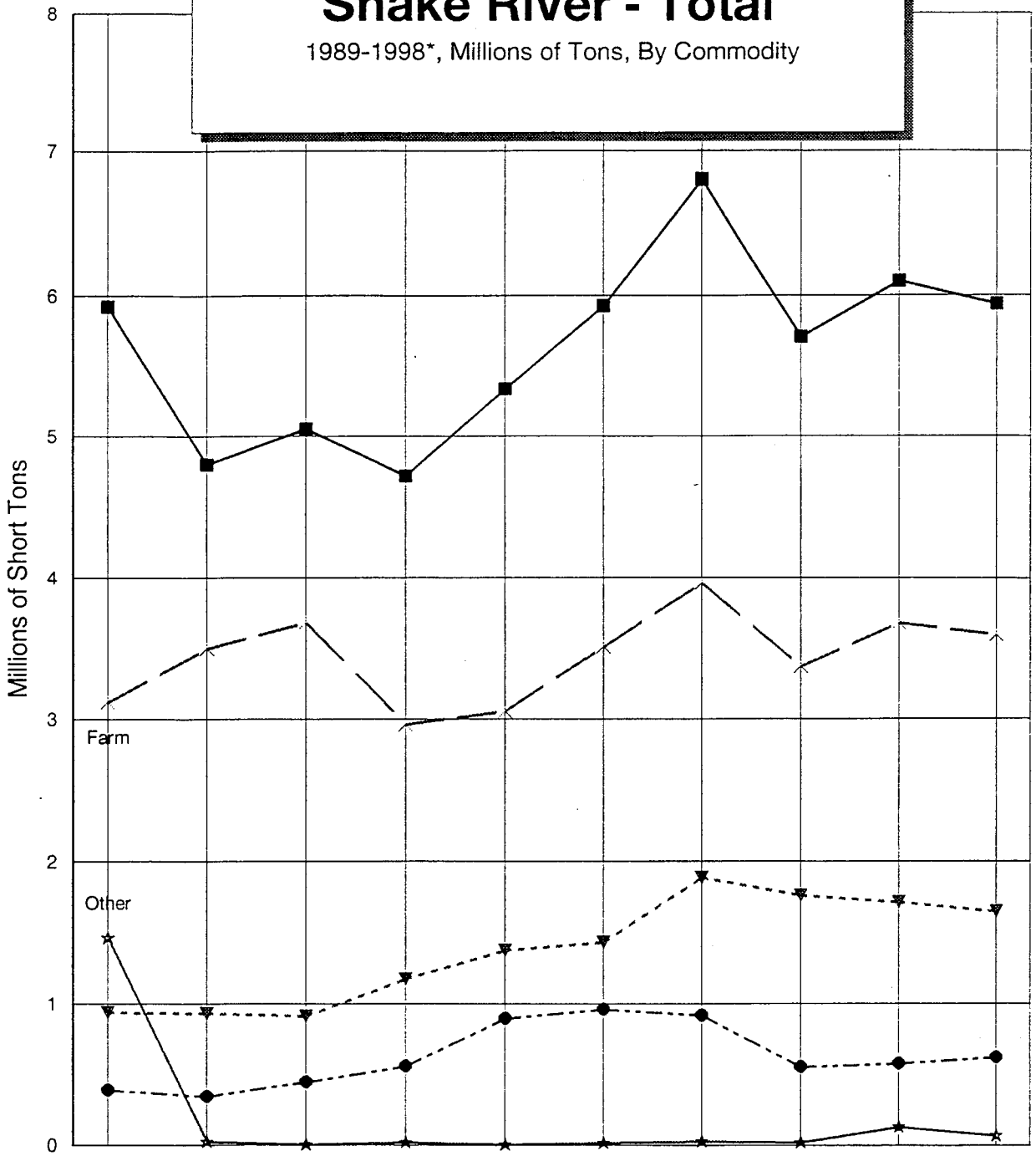



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 8.47 | 7.66 | 7.55 | 8.60 | 9.15 | 8.73 | 8.09 | 9.54 | 9.57 | 8.4 |
| ▼ Petro | 3.72 | 3.67 | 3.86 | 3.81 | 4.82 | 4.77 | 5.35 | 5.65 | 5.30 | 5.1 |
| ★ Other | 2.44 | 1.79 | 1.57 | 2.37 | 1.92 | 1.64 | 0.61 | 2.30 | 2.24 | 1.9 |
| ● Wood | 1.00 | 1.52 | 1.50 | 1.69 | 1.48 | 1.43 | 1.36 | 1.21 | 1.42 | 0.9 |
| ✕ Chemical | 0.49 | 0.55 | 0.46 | 0.66 | 0.85 | 0.79 | 0.69 | 0.34 | 0.53 | 0.4 |
| ⅄ Farm | 0.82 | 0.13 | 0.15 | 0.08 | 0.07 | 0.10 | 0.08 | 0.04 | 0.09 | 0.1 |

6-08-99 Domestic Tonnage *Estimated

# Snake River - Total

1989-1998*, Millions of Tons, By Commodity

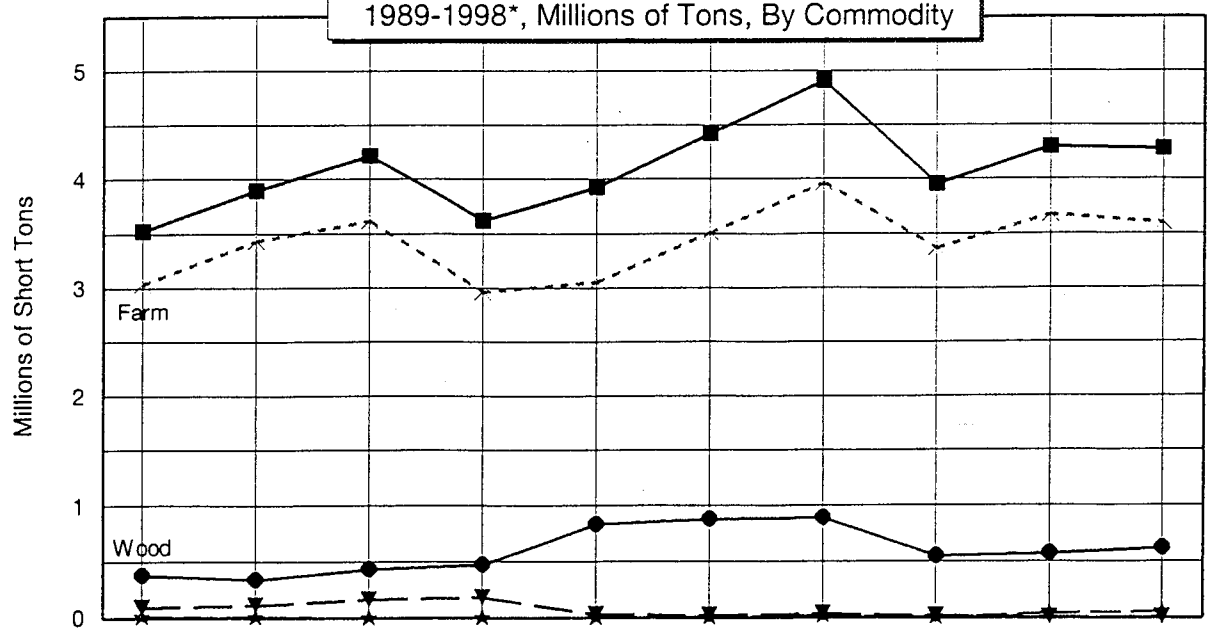



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 5.92 | 4.80 | 5.05 | 4.72 | 5.34 | 5.93 | 6.80 | 5.71 | 6.10 | 5.9 |
| ⩚Farm | 3.12 | 3.50 | 3.68 | 2.96 | 3.06 | 3.51 | 3.96 | 3.37 | 3.68 | 3.6 |
| ▼Petro & Chem | 0.94 | 0.93 | 0.92 | 1.18 | 1.38 | 1.43 | 1.89 | 1.76 | 1.71 | 1.6 |
| ●Wood | 0.39 | 0.35 | 0.45 | 0.56 | 0.90 | 0.96 | 0.92 | 0.56 | 0.58 | 0.6 |
| ☆Other | 1.47 | 0.03 | 0.01 | 0.02 | 0.00 | 0.02 | 0.03 | 0.02 | 0.13 | 0.1 |

7-14-99 *Estimated

# Snake River - Downbound

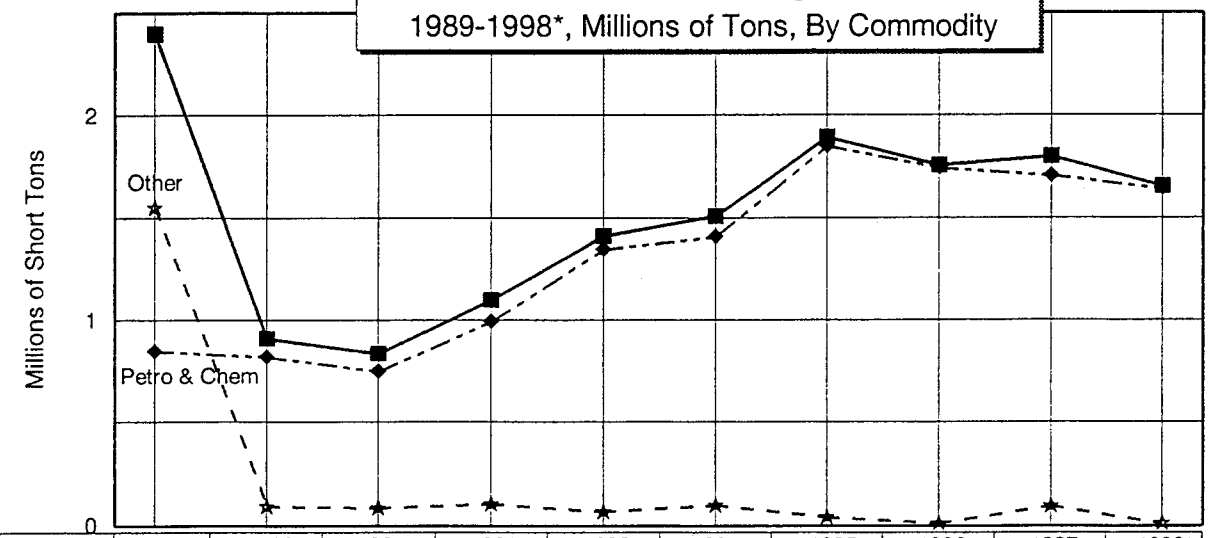
1989-1998*, Millions of Tons, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.52 | 3.89 | 4.22 | 3.62 | 3.93 | 4.42 | 4.91 | 3.95 | 4.30 | 4.3 |
| ◔ Farm | 3.04 | 3.43 | 3.62 | 2.96 | 3.06 | 3.51 | 3.96 | 3.37 | 3.67 | 3.6 |
| ● Wood | 0.38 | 0.34 | 0.43 | 0.48 | 0.84 | 0.88 | 0.89 | 0.55 | 0.58 | 0.6 |
| ▼ Petro & Chem | 0.09 | 0.11 | 0.17 | 0.18 | 0.03 | 0.03 | 0.04 | 0.02 | 0.01 | 0.0 |
| ★ Other | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.01 | 0.04 | 0.1 |

# Snake River - Upbound

1989-1998*, Millions of Tons, By Commodity

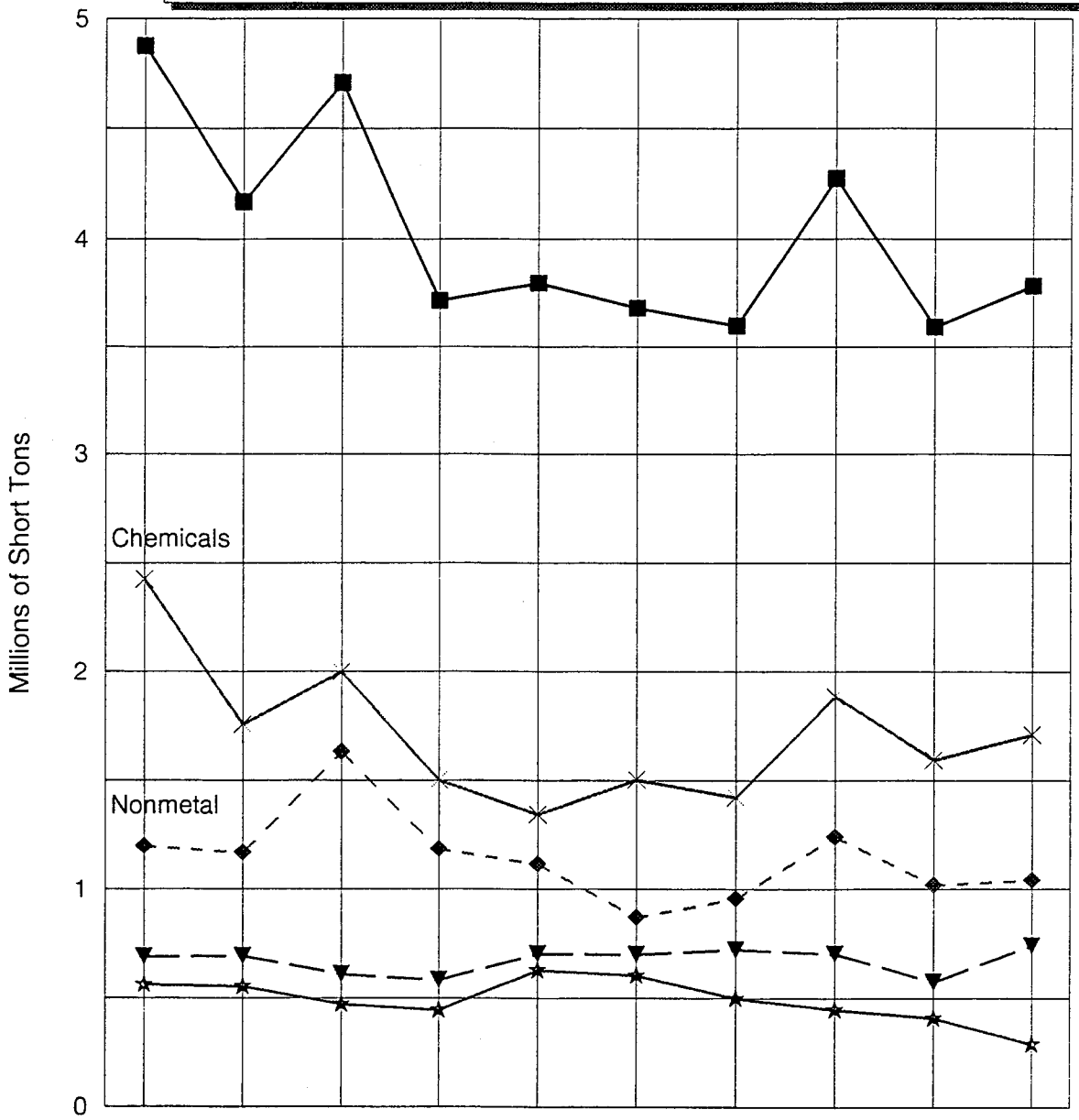



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 2.40 | 0.91 | 0.84 | 1.10 | 1.41 | 1.51 | 1.89 | 1.76 | 1.80 | 1.7 |
| ◆ Petro & Chem | 0.85 | 0.82 | 0.75 | 0.99 | 1.35 | 1.41 | 1.85 | 1.74 | 1.71 | 1.6 |
| ★ Other | 1.55 | 0.09 | 0.09 | 0.11 | 0.07 | 0.10 | 0.04 | 0.01 | 0.09 | 0.0 |

7-14-99 *Estimated

# Atlantic Intracoastal Waterway

Total, 1989-1998*, Millions of Short Tons, By Commodity

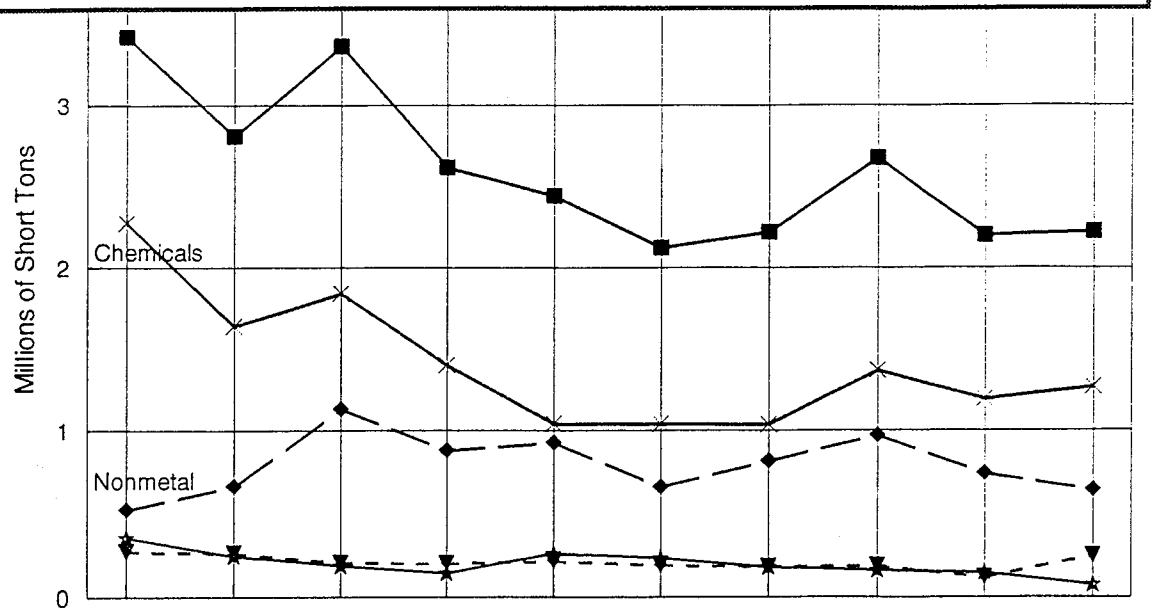



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 4.88 | 4.17 | 4.71 | 3.71 | 3.79 | 3.68 | 3.60 | 4.27 | 3.59 | 3.8 |
| ⁄ Chemicals | 2.42 | 1.76 | 2.00 | 1.50 | 1.35 | 1.51 | 1.42 | 1.88 | 1.59 | 1.7 |
| ◆ Nonmetal | 1.20 | 1.17 | 1.63 | 1.19 | 1.12 | 0.87 | 0.96 | 1.24 | 1.02 | 1.0 |
| ▼ Petro | 0.69 | 0.69 | 0.61 | 0.58 | 0.70 | 0.70 | 0.72 | 0.70 | 0.57 | 0.7 |
| ★ Other | 0.56 | 0.55 | 0.47 | 0.44 | 0.63 | 0.60 | 0.50 | 0.45 | 0.41 | 0.3 |

7-23-99 *Estimated

# Atlantic Intracoastal Waterway

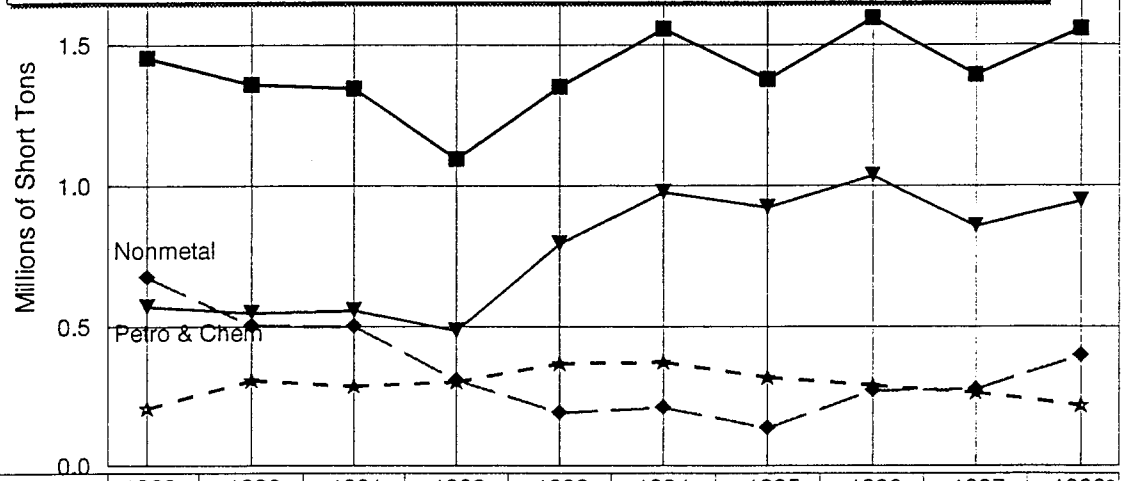
Southbound, 1989-1998* By Commodity, Millions of Tons




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.42 | 2.81 | 3.36 | 2.62 | 2.44 | 2.12 | 2.22 | 2.68 | 2.20 | 2.2 |
| ✕ Chemicals | 2.27 | 1.63 | 1.84 | 1.39 | 1.04 | 1.04 | 1.04 | 1.36 | 1.19 | 1.3 |
| ◆ Nonmetal | 0.52 | 0.67 | 1.13 | 0.88 | 0.93 | 0.66 | 0.82 | 0.97 | 0.74 | 0.6 |
| ▼ Petro | 0.27 | 0.26 | 0.21 | 0.20 | 0.22 | 0.19 | 0.18 | 0.19 | 0.12 | 0.2 |
| ★ Other | 0.35 | 0.24 | 0.19 | 0.14 | 0.26 | 0.23 | 0.18 | 0.16 | 0.15 | 0.1 |

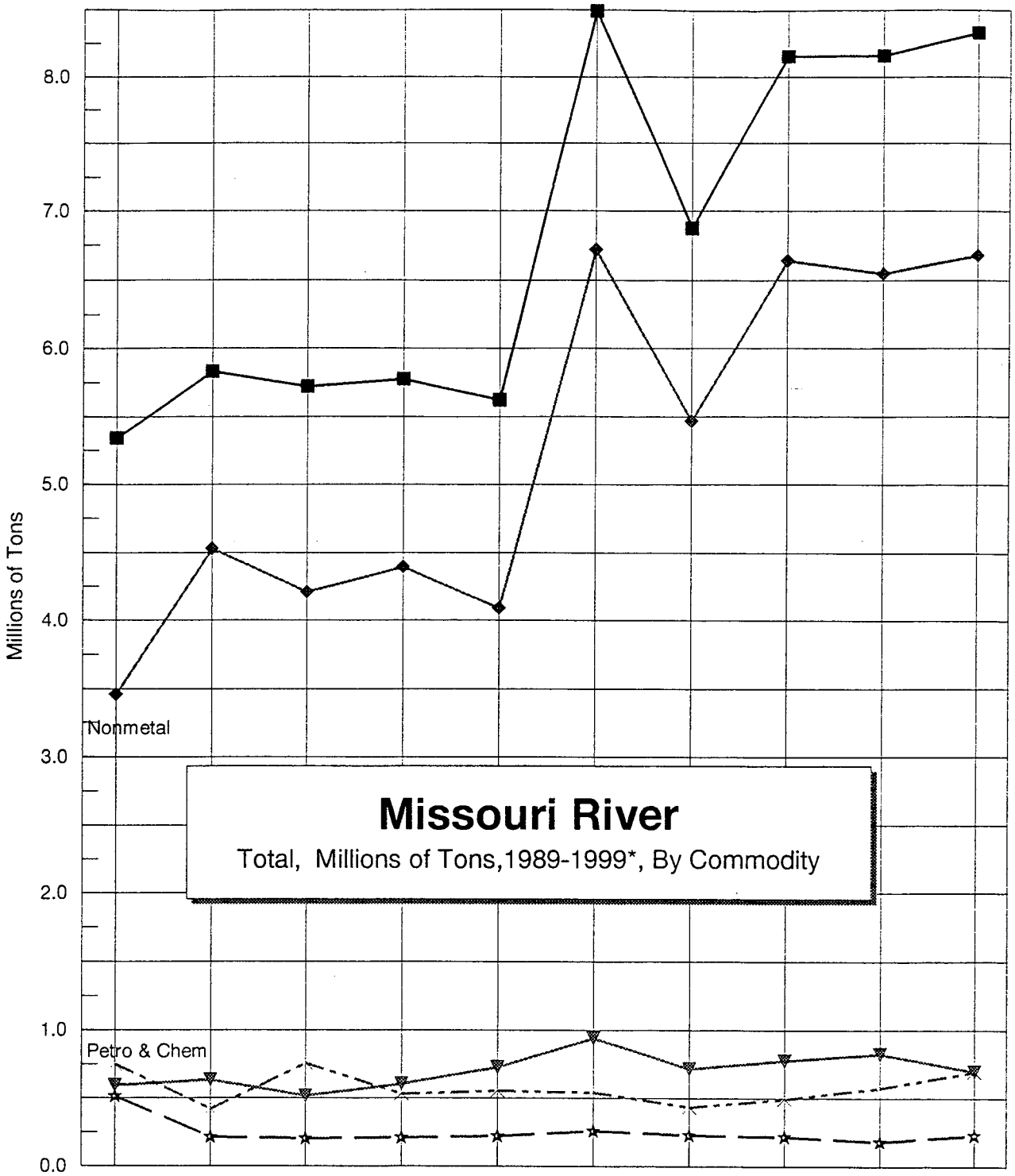
# Atlantic Intracoastal Waterway

Northbound, 1989-1998*, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 1.46 | 1.36 | 1.35 | 1.10 | 1.35 | 1.56 | 1.38 | 1.60 | 1.39 | 1.6 |
| ▼ Petro & Chem | 0.57 | 0.55 | 0.56 | 0.49 | 0.79 | 0.98 | 0.92 | 1.04 | 0.86 | 0.9 |
| ★ Other | 0.21 | 0.31 | 0.29 | 0.30 | 0.37 | 0.37 | 0.32 | 0.29 | 0.26 | 0.2 |
| ◆ Nonmetal | 0.68 | 0.50 | 0.50 | 0.31 | 0.19 | 0.21 | 0.14 | 0.27 | 0.28 | 0.4 |

7-23-99 *Estimated

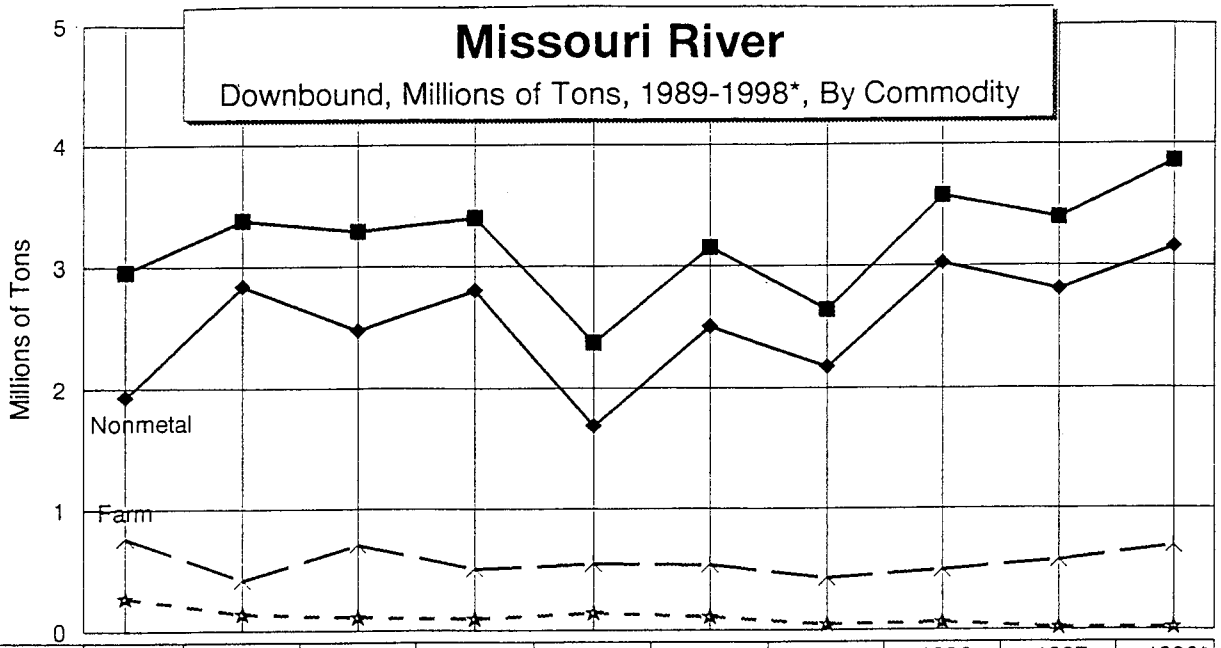



| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■Total | 5.35 | 5.84 | 5.73 | 5.78 | 5.63 | 8.50 | 6.88 | 8.17 | 8.17 | 8.3 |
| ◆Nonmetal | 3.47 | 4.54 | 4.22 | 4.41 | 4.10 | 6.73 | 5.47 | 6.65 | 6.56 | 6.7 |
| ▼Petro & Chem | 0.60 | 0.65 | 0.53 | 0.61 | 0.74 | 0.95 | 0.73 | 0.79 | 0.84 | 0.7 |
| ⅄Farm | 0.76 | 0.43 | 0.77 | 0.54 | 0.56 | 0.55 | 0.44 | 0.50 | 0.59 | 0.7 |
| ☆Other | 0.52 | 0.22 | 0.21 | 0.22 | 0.23 | 0.27 | 0.24 | 0.23 | 0.19 | 0.2 |

7-15-99 *Estimated

# Missouri River

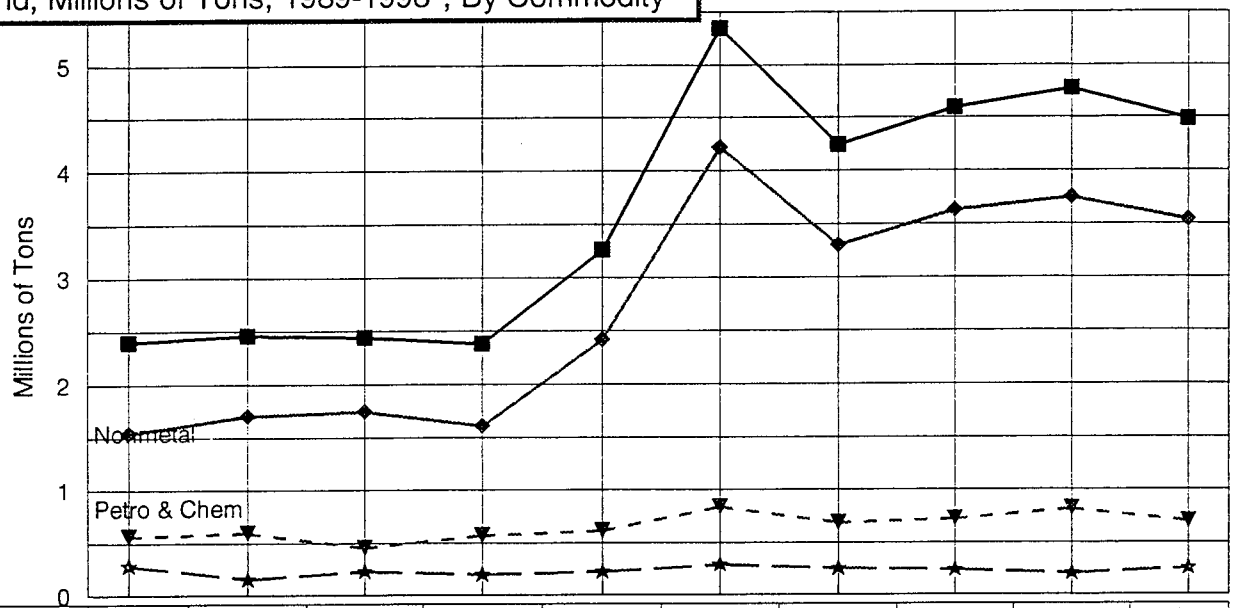
Downbound, Millions of Tons, 1989-1998*, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 3.0 | 3.4 | 3.3 | 3.4 | 2.4 | 3.2 | 2.6 | 3.6 | 3.4 | 3.9 |
| ◆ Nonmetal | 1.9 | 2.8 | 2.5 | 2.8 | 1.7 | 2.5 | 2.2 | 3.0 | 2.8 | 3.2 |
| ⅄ Farm | 0.8 | 0.4 | 0.7 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.6 | 0.7 |
| ★ Other | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 |

# Missouri River

Upbound, Millions of Tons, 1989-1998*, By Commodity




| Year | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998* |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ Total | 2.40 | 2.46 | 2.44 | 2.38 | 3.26 | 5.35 | 4.24 | 4.59 | 4.77 | 4.5 |
| ◆ Nonmetal | 1.54 | 1.70 | 1.75 | 1.60 | 2.42 | 4.22 | 3.30 | 3.63 | 3.75 | 3.5 |
| ▼ Petro & Chem | 0.56 | 0.60 | 0.46 | 0.57 | 0.61 | 0.84 | 0.68 | 0.72 | 0.82 | 0.7 |
| ★ Other | 0.29 | 0.16 | 0.24 | 0.20 | 0.23 | 0.29 | 0.26 | 0.24 | 0.21 | 0.3 |

7-15-99 *Estimated