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NATIONAL TOTALS AND SELECTED INLAND WATERWAYS

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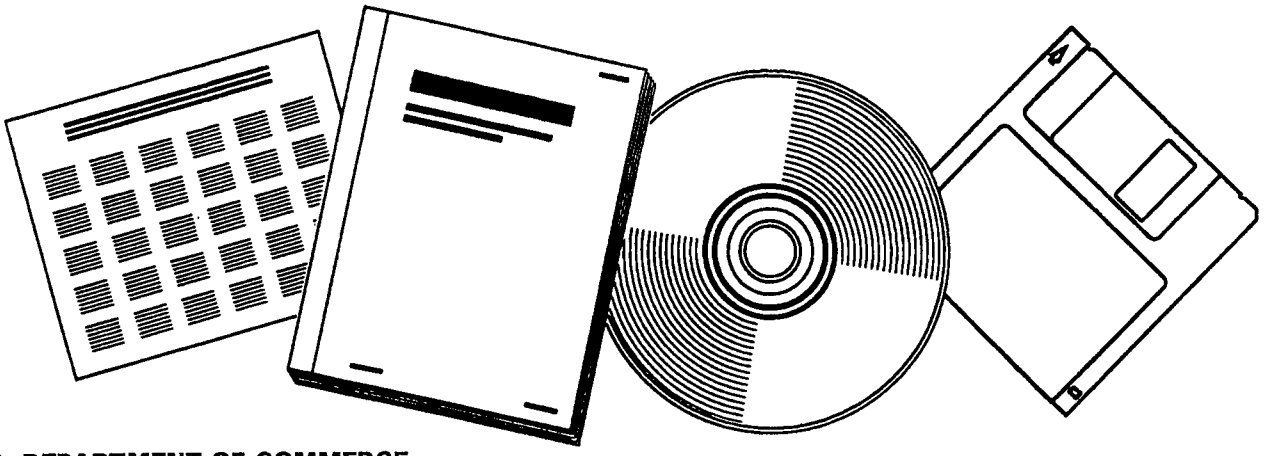

U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB98-110943

Estimated Waterborne Commerce Statistics

For Calendar Year 1996

National Totals and Selected Inland Waterways

U.S. ARMY CORPS OF ENGINEERS

Navigation Data Center
Waterborne Commerce Statistics Center
October 1997

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U.S. Department of Commerce
National Technical Information Service
Springfield, Virginia 22161

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 1996. The foreign import and export estimates were furnished by the Bureau of the Census. The domestic national totals are based on CY96 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 Intercoastal 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 (1996) is either estimated or preliminary: prior years' data 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.wrc-ndc.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: cewrc-ndc-c@usace.army.mil.

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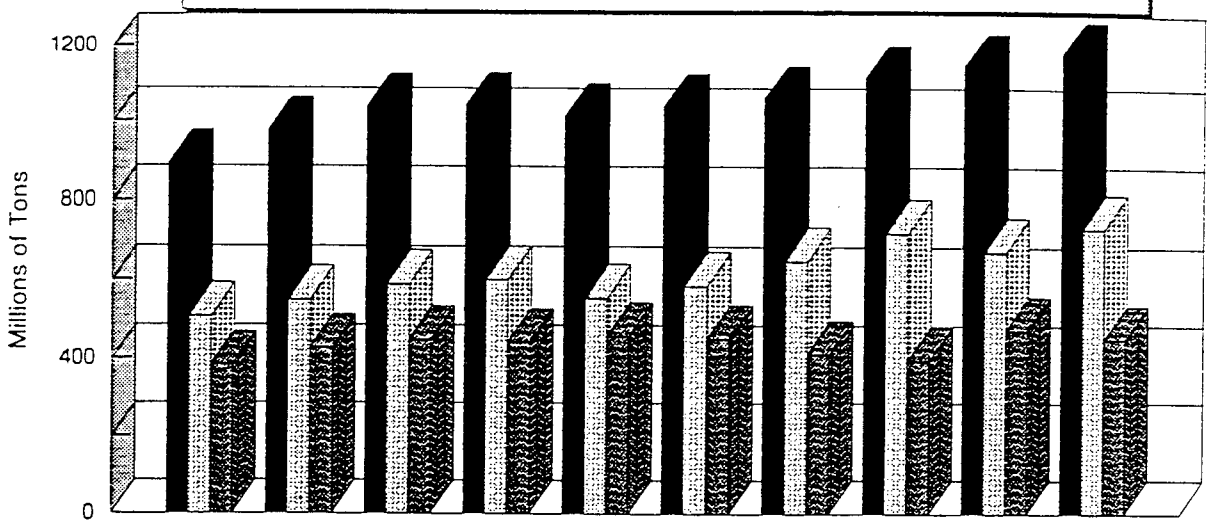
Foreign Waterborne Imports and Exports

1987-1996*, Millions of Tons

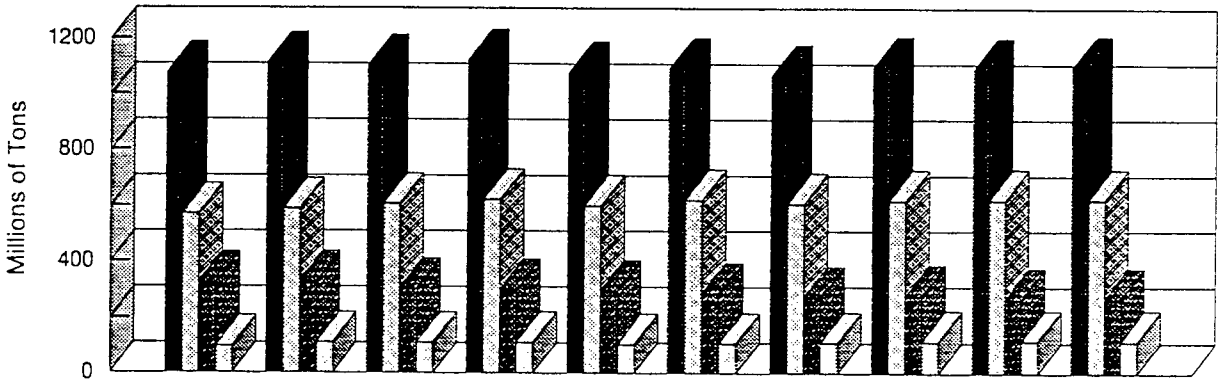


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	891.0	976.2	1037.9	1041.6	1013.6	1037.5	1060.0	1115.7	1147.4	1183.4
▨ Imports	507.7	549.9	589.5	600.0	555.4	586.7	648.8	719.5	672.7	732.6
▩ Exports	383.3	426.3	448.4	441.6	458.2	450.8	411.3	396.2	474.7	450.8

*Preliminary October 1997

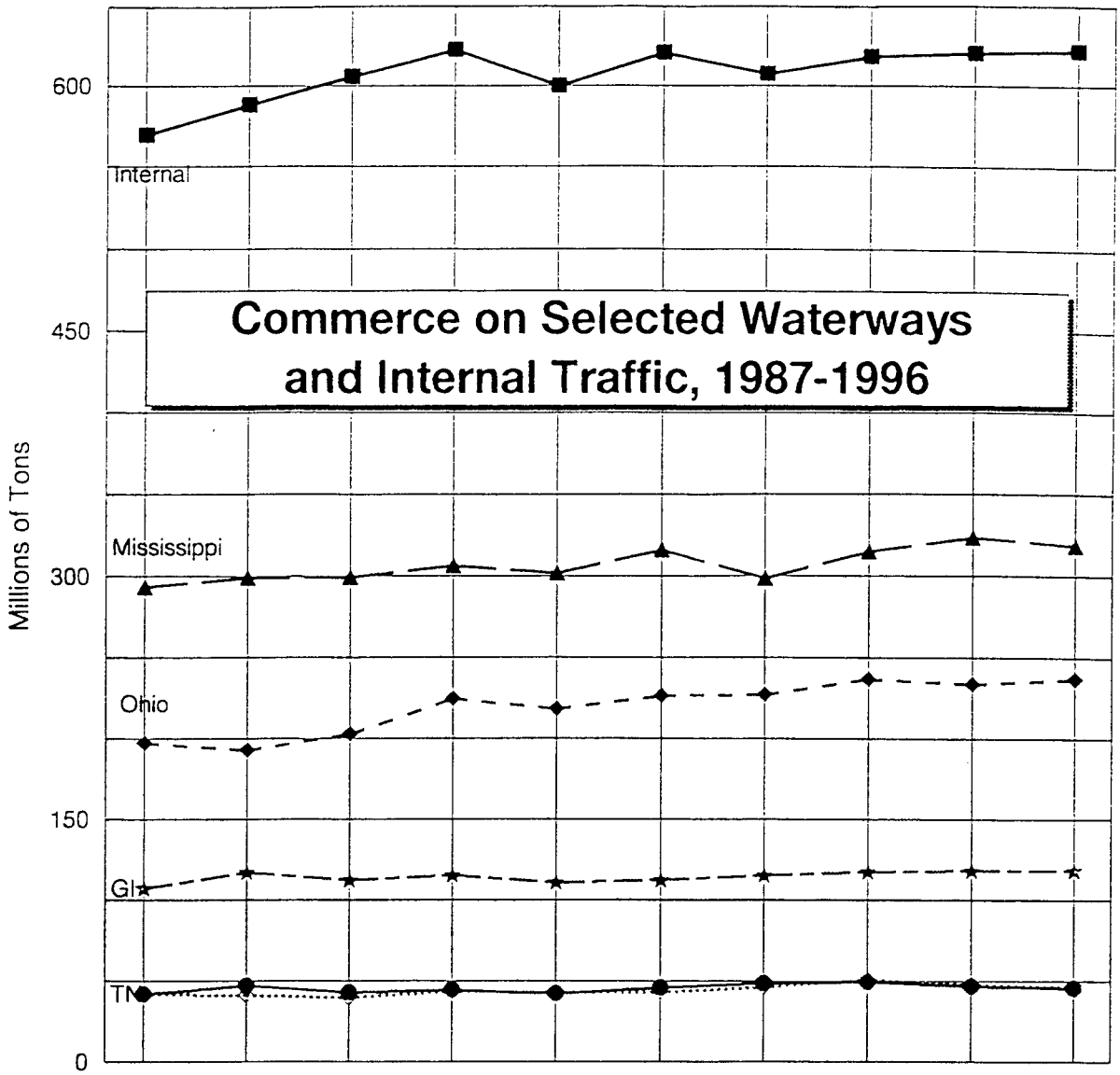
Domestic Waterborne Commerce of the U.S.

1987-1996*, Millions of Tons, by type of traffic



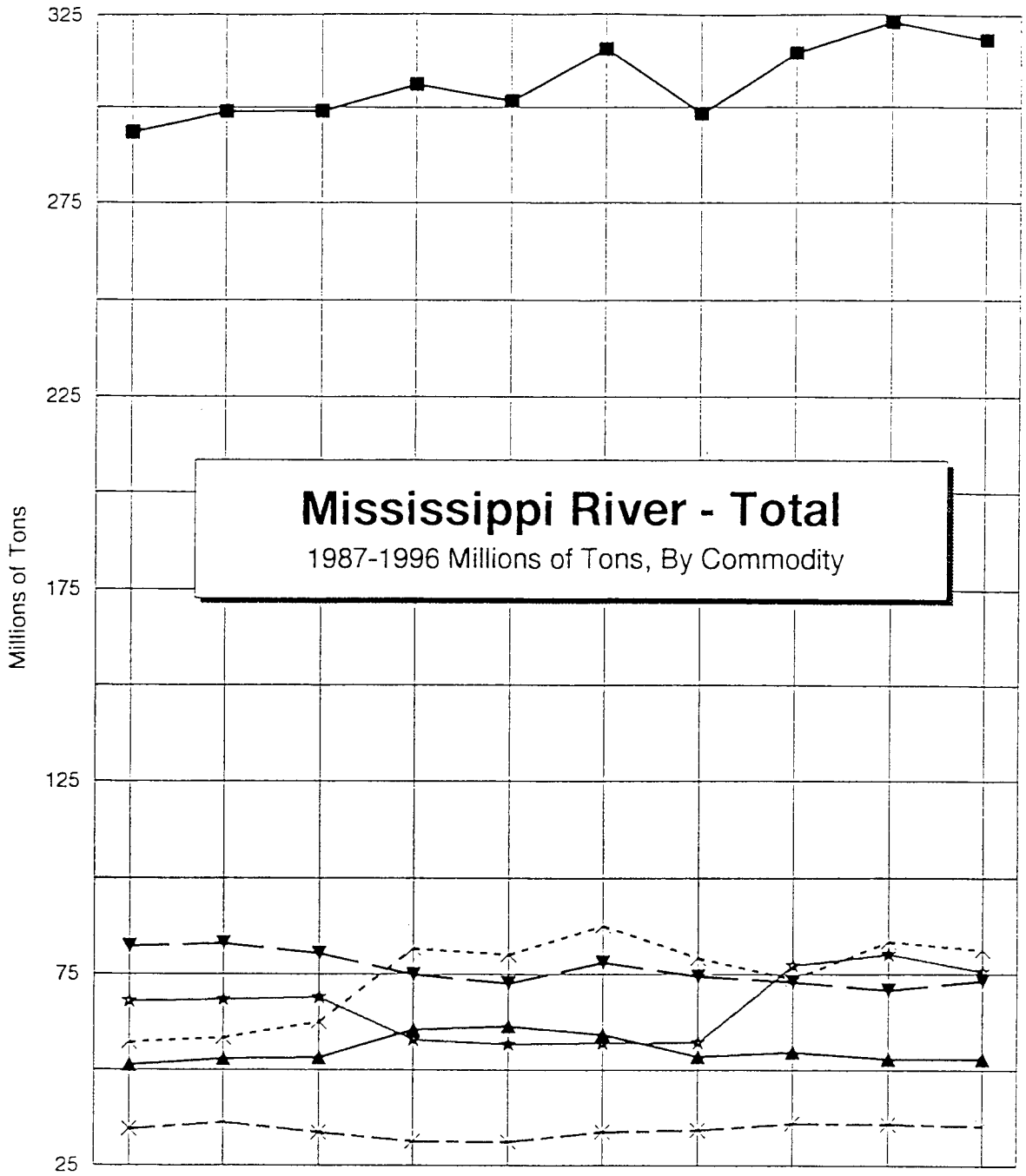
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total**	1076.5	1111.8	1102.5	1122.3	1078.6	1094.6	1068.2	1099.0	1093.0	1100.6
▨ Internal	569.8	588.1	606.0	622.6	600.4	621.0	607.3	618.4	620.3	621.9
▩ Coastwise	323.5	325.2	302.0	298.6	294.5	285.1	271.7	277.0	266.6	267.4
□ Lakewise	96.5	109.7	109.1	110.2	103.4	107.4	109.9	114.8	116.1	114.9

**Total also includes local traffic and intraterritorial traffic
*Preliminary October 1997



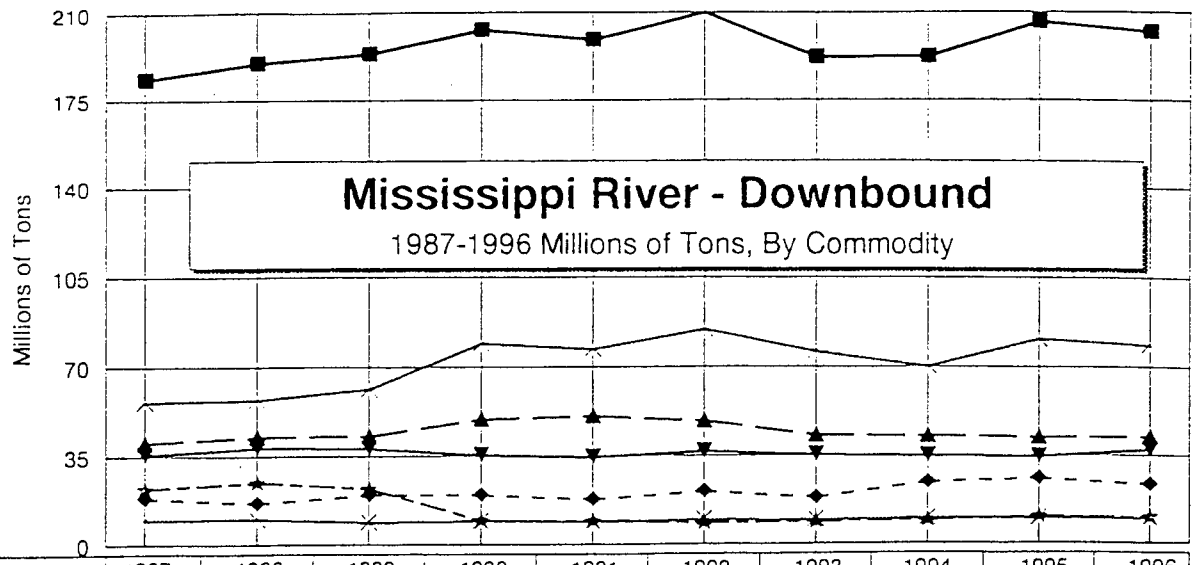
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total Internal	569.83	588.12	606.01	622.60	600.39	621.04	607.25	618.41	620.32	621.88
▲Mississippi**	293.23	298.76	298.87	306.19	301.67	315.71	298.26	314.58	323.02	318.46
◆Ohio	197.17	192.59	202.67	224.70	218.32	226.39	227.24	236.66	234.06	236.84
●Tennessee	41.71	47.10	43.06	44.51	42.09	46.08	48.16	49.14	46.39	45.53
◇Illinois	41.41	40.97	39.67	43.30	43.11	42.67	45.64	50.88	47.43	46.24
★GIWW**	107.00	117.10	112.36	115.38	110.83	112.19	114.94	117.61	117.96	118.03

Moved solely within the boundaries of the U.S.
**Includes domestic coastwise tonnage.



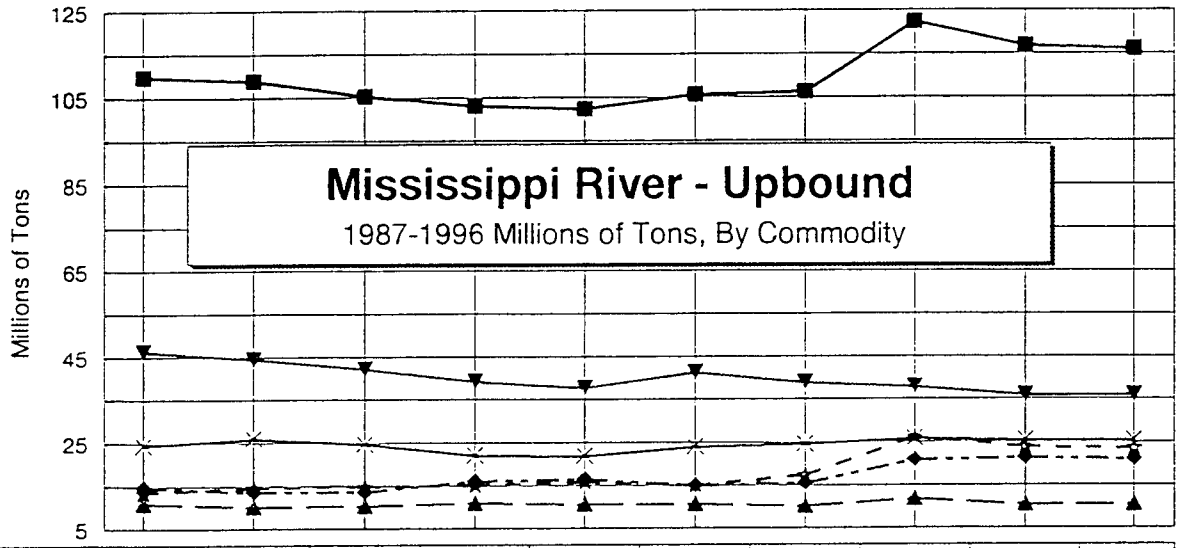
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	293.23	298.75	298.87	306.19	301.67	315.71	298.26	314.58	323.02	318.46
☆ Other	68.13	68.48	69.11	57.90	56.67	57.04	57.18	77.36	80.17	75.62
⅄ Farm	57.20	58.28	62.58	81.62	79.97	87.52	79.17	73.69	83.33	81.29
▼ Petro	82.14	82.88	80.30	74.80	72.47	78.03	74.33	72.93	70.81	73.26
▲ Coal	51.28	52.90	53.20	60.55	61.36	59.28	53.33	54.63	52.91	52.87
× Chemical	34.49	36.22	33.68	31.31	31.21	33.85	34.26	35.96	35.80	35.42

Domestic Tonnage DLeavitt



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	183.44	189.84	193.63	203.18	199.28	210.04	191.98	192.29	206.32	202.38
✕ Farm	56.37	57.02	61.38	79.30	77.06	85.00	76.10	70.13	81.20	78.53
▲ Coal	40.28	42.65	42.92	49.55	50.69	48.71	43.18	42.80	42.43	42.44
▼ Petro	35.75	38.25	38.17	35.61	34.77	36.73	35.43	35.01	34.91	37.33
◆ Nonmetal	18.56	16.70	19.79	19.70	17.98	21.02	18.53	24.72	26.28	23.59
✕ Chemical	10.11	10.31	9.03	9.36	9.33	9.93	9.75	10.14	10.37	10.04
★ Other	22.36	24.91	22.34	9.67	9.44	8.64	8.99	9.48	11.13	10.46

Domestic Tonnage

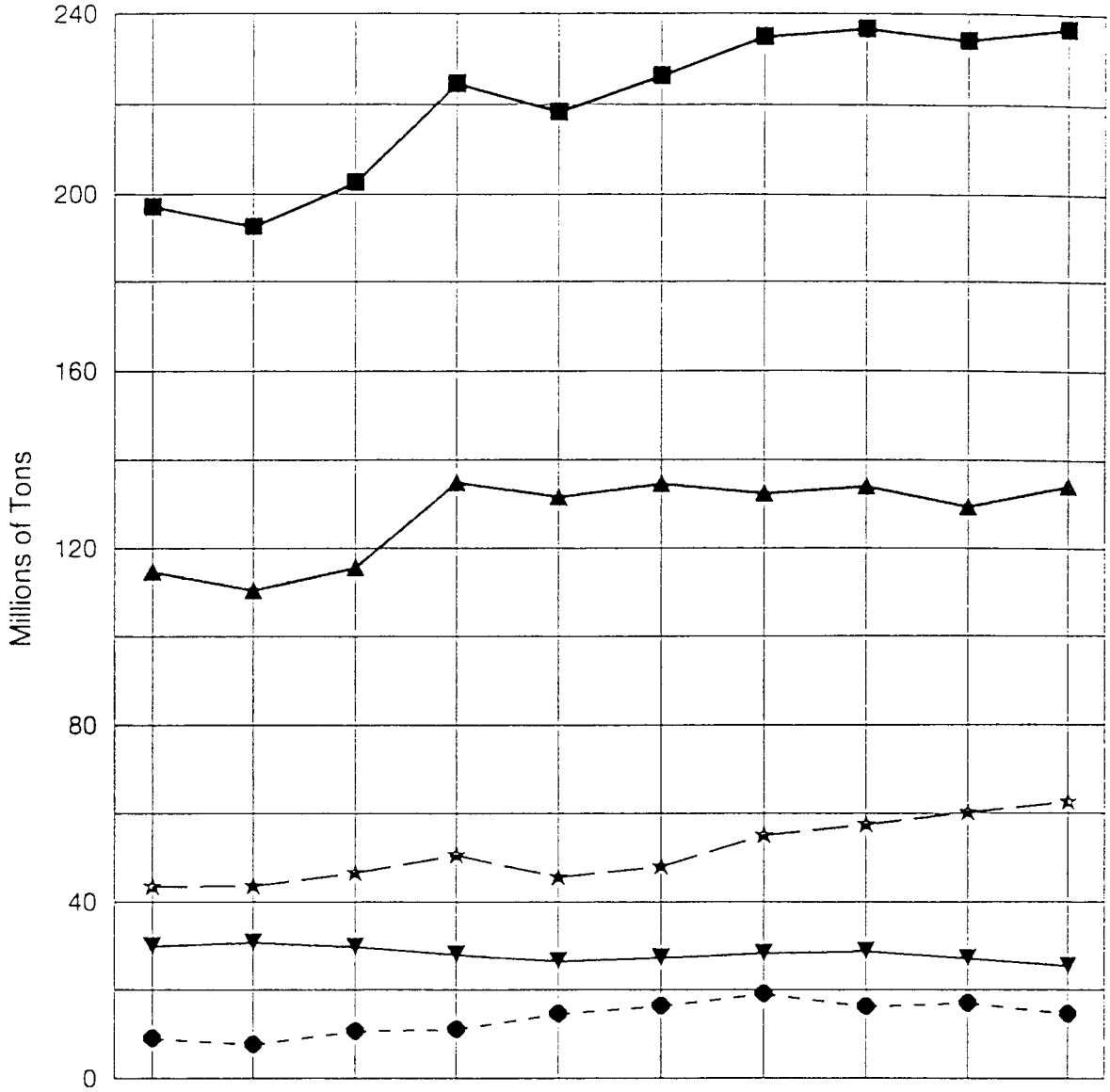


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	109.79	108.91	105.25	103.01	102.39	105.67	106.28	122.29	116.70	116.08
▼ Petro	46.38	44.63	42.13	39.19	37.69	41.29	38.90	37.91	35.90	35.93
✕ Chemical	24.38	25.90	24.65	21.95	21.87	23.92	24.51	25.82	25.43	25.38
★ Other	13.34	14.65	14.75	14.87	15.64	14.99	17.29	25.91	23.76	23.44
◆ Nonmetal	14.70	13.47	13.44	15.99	16.52	14.91	15.44	20.82	21.13	20.90
▲ Coal	10.99	10.25	10.28	11.00	10.67	10.57	10.14	11.83	10.48	10.43

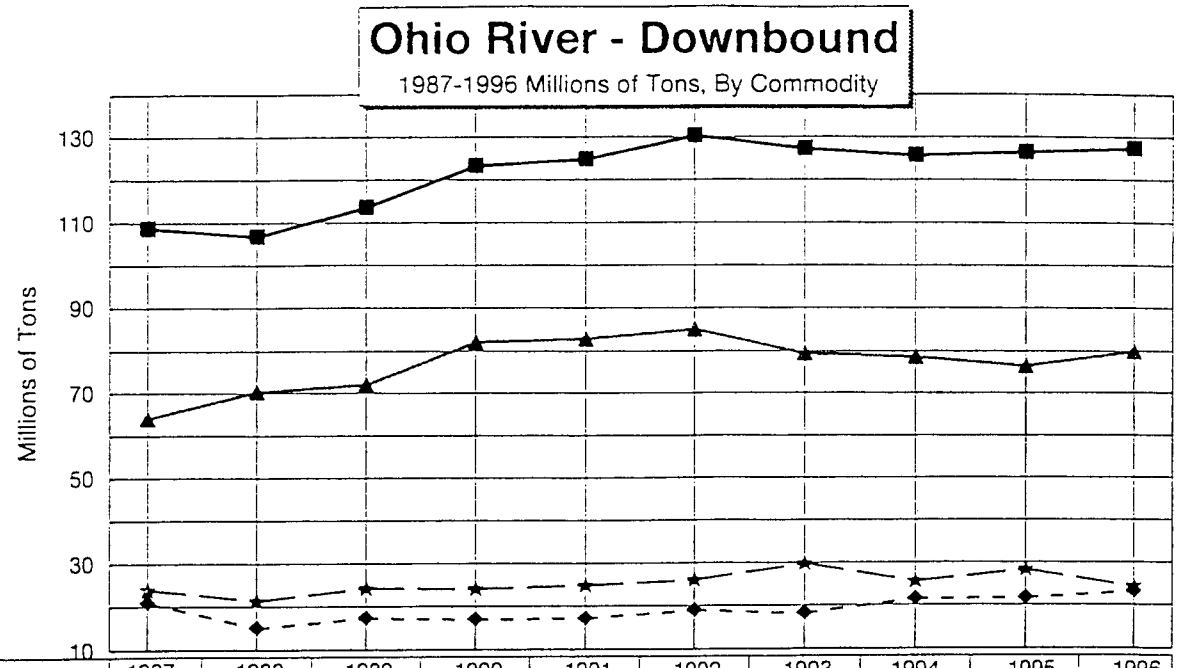
Domestic Tonnage

Ohio River - Total

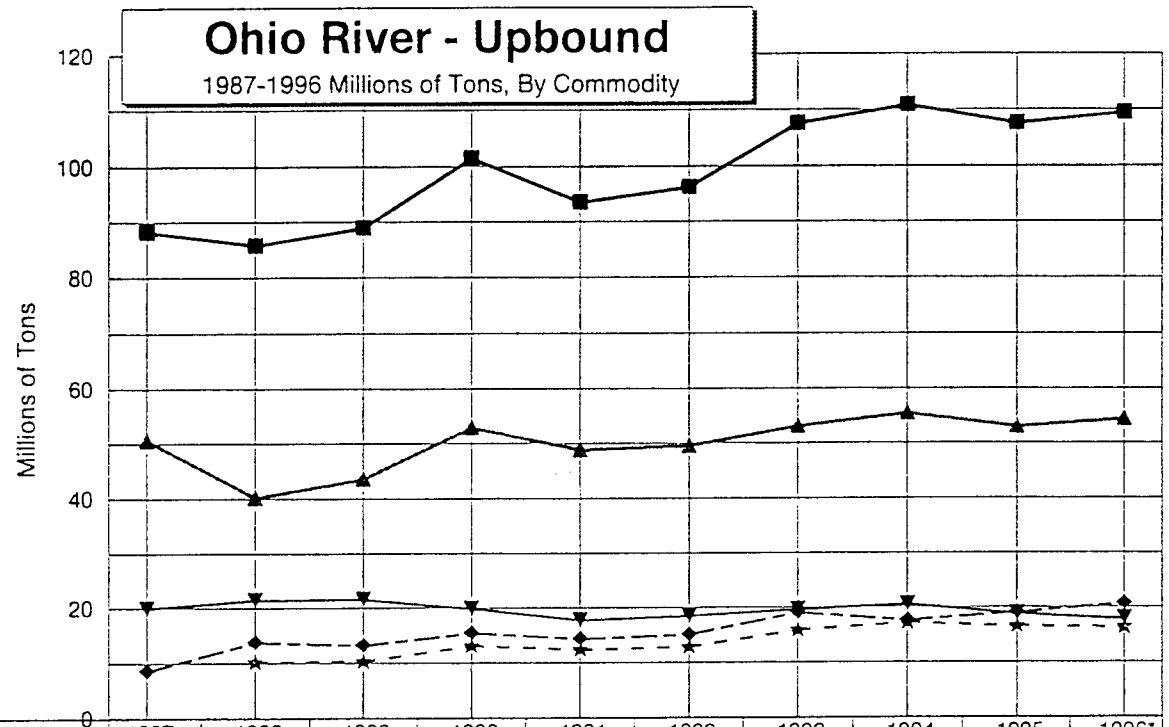
1987-1996 Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
	197.17	192.59	202.67	224.70	218.32	226.39	234.88	236.66	234.06	236.84
▲Coal	114.68	110.57	115.64	134.97	131.58	134.65	132.42	134.02	129.46	134.14
☆Other	43.54	43.57	46.58	50.68	45.64	48.06	55.22	57.60	60.32	62.63
▼Petro & Chem	29.96	30.72	29.77	27.95	26.49	27.34	28.24	28.78	27.25	25.50
●Farm	9.00	7.73	10.68	11.10	14.60	16.34	18.99	16.25	17.04	14.58



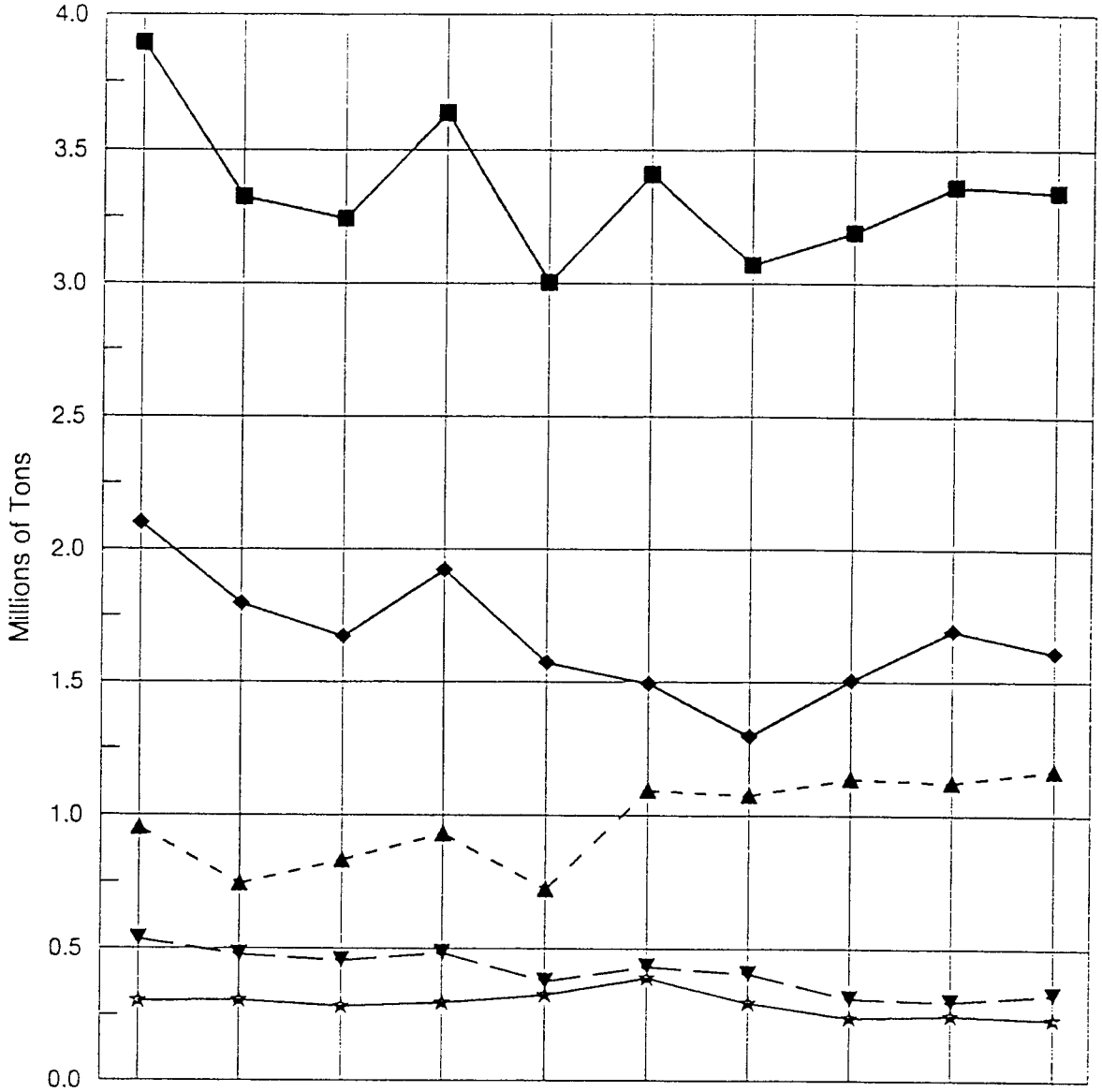
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	108.84	106.78	113.69	123.29	124.83	130.24	127.23	125.79	126.45	127.40
▲ Coal	64.02	70.36	72.01	82.02	82.76	85.09	79.29	78.55	76.37	79.74
★ Other	23.91	21.43	24.29	24.17	24.90	26.13	29.79	25.64	28.33	24.48
◆ Nonmetal	20.90	14.99	17.39	17.10	17.18	19.02	18.15	21.60	21.75	23.17



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	88.34	85.82	88.98	101.40	93.48	96.15	107.65	110.87	107.61	109.45
▲ Coal	50.65	40.21	43.63	52.94	48.82	49.56	53.13	55.47	53.09	54.40
▼ Petro & Chem	19.93	21.51	21.68	19.81	17.73	18.51	19.64	20.53	18.87	17.92
◆ Nonmetal	8.54	13.86	13.28	15.47	14.46	15.16	19.01	17.71	19.01	20.71
★ Other		10.23	10.40	13.17	12.47	12.92	15.87	17.16	16.65	16.41

Allegheny River - Total

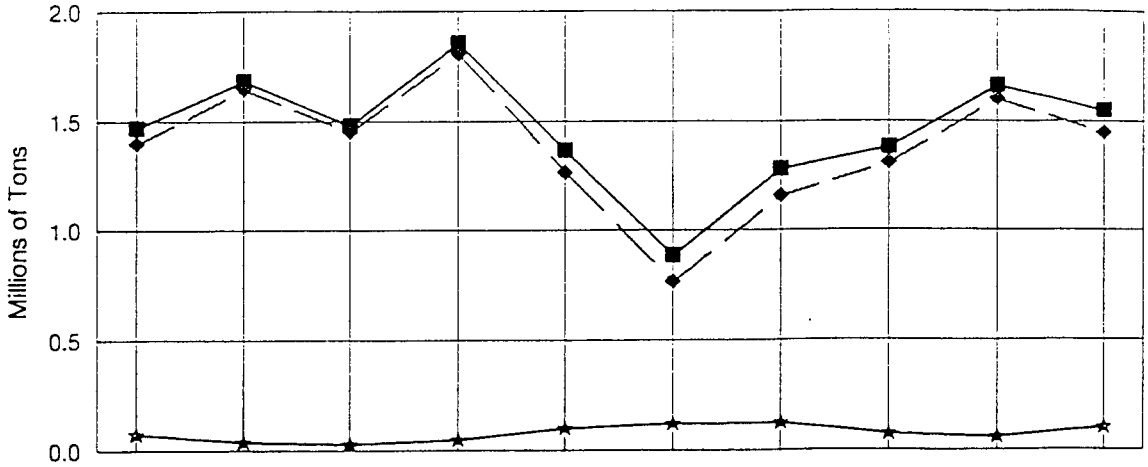
1987-1996, Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total	3.89	3.32	3.24	3.64	3.00	3.41	3.07	3.19	3.36	3.34
◆Nonmetal	2.10	1.80	1.67	1.92	1.57	1.49	1.29	1.51	1.69	1.61
▲Coal	0.95	0.75	0.84	0.93	0.73	1.09	1.07	1.14	1.12	1.17
▼Petro & Chem	0.54	0.48	0.46	0.49	0.38	0.43	0.41	0.31	0.30	0.33
☆Other	0.30	0.30	0.28	0.30	0.33	0.39	0.30	0.24	0.25	0.24

Allegheny River - Downbound

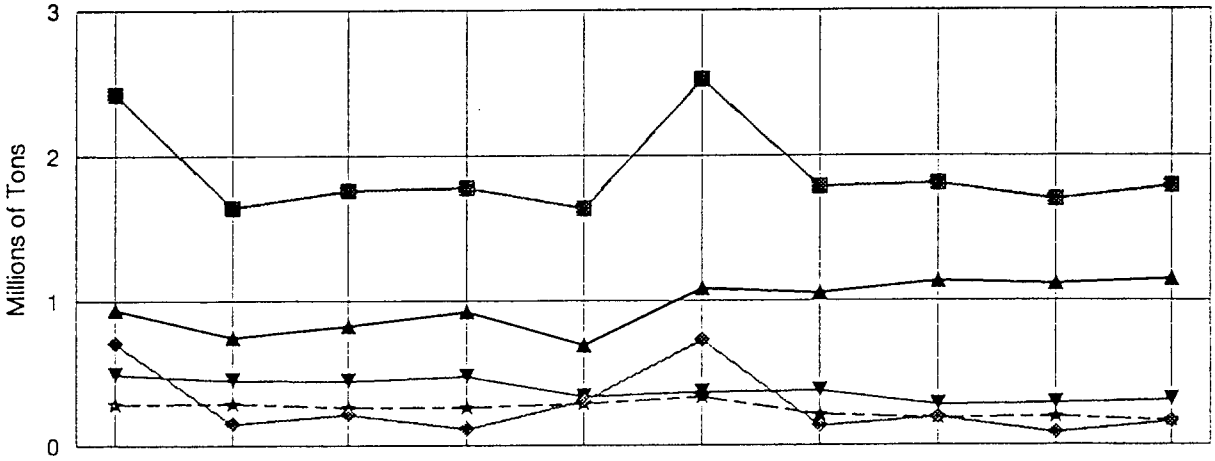
1987-1996, Millions of Tons, By Commodity



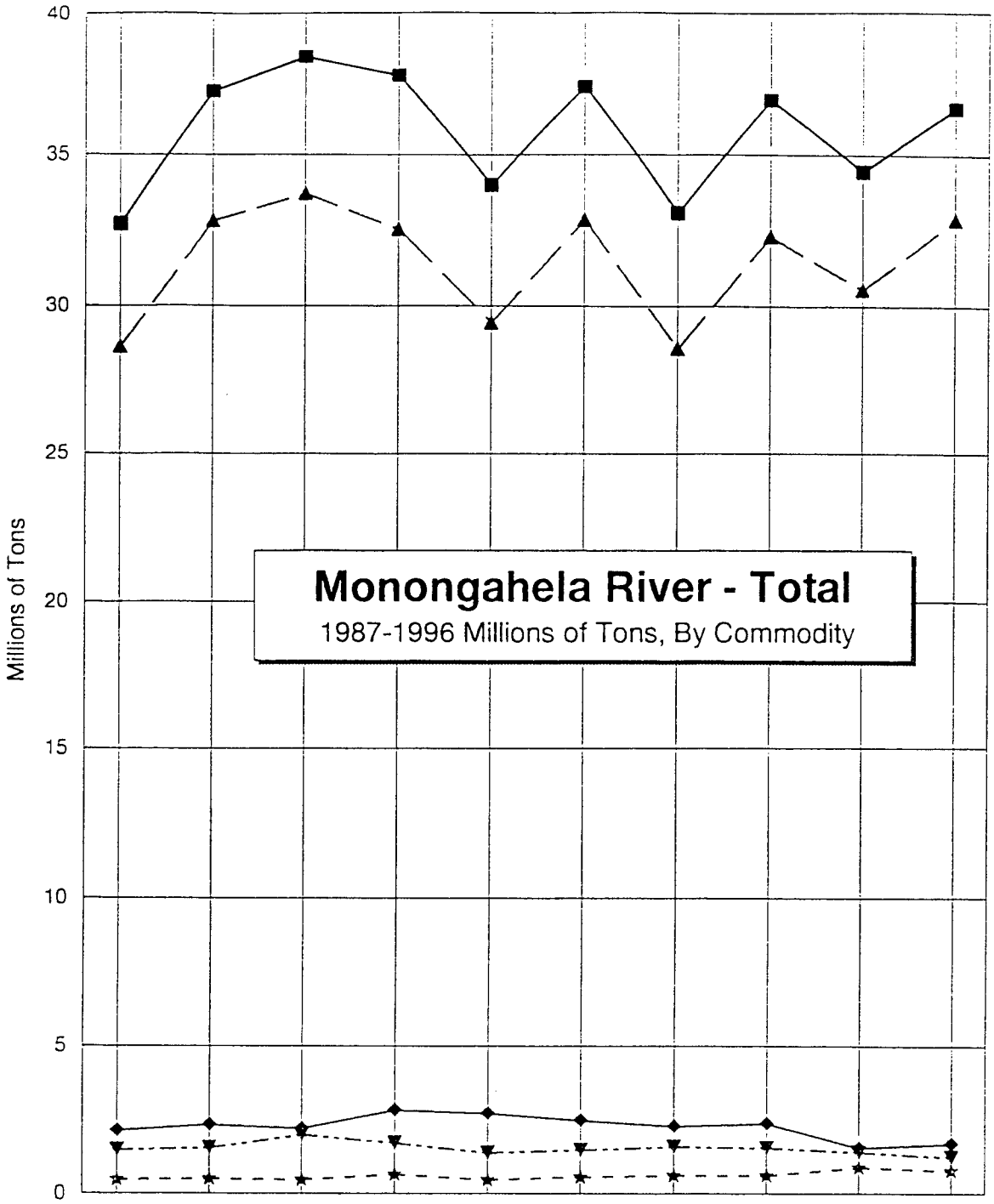
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	1.47	1.68	1.48	1.86	1.37	0.89	1.28	1.38	1.67	1.55
◆ Nonmetal	1.40	1.65	1.45	1.81	1.26	0.77	1.16	1.31	1.60	1.45
★ Other	0.08	0.04	0.03	0.05	0.10	0.12	0.13	0.07	0.06	0.10

Allegheny River - Upbound

1987-1996, Millions of Tons, By Commodity



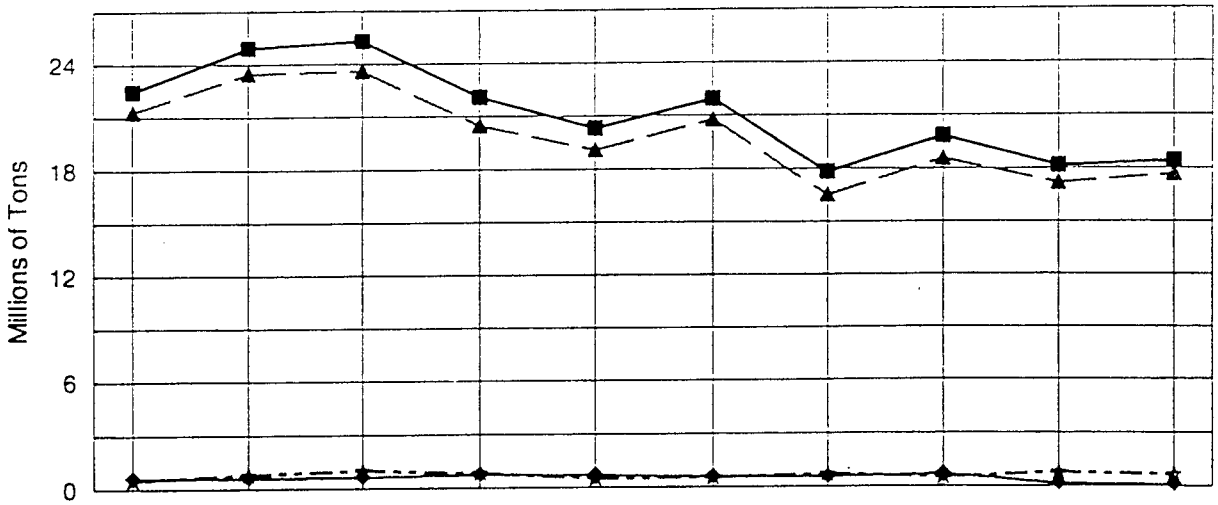
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	2.42	1.64	1.76	1.78	1.64	2.52	1.79	1.81	1.70	1.79
▲ Coal	0.94	0.75	0.83	0.92	0.69	1.08	1.05	1.13	1.11	1.14
▼ Petro & Chem	0.49	0.45	0.45	0.48	0.34	0.37	0.38	0.28	0.29	0.31
★ Other	0.29	0.29	0.27	0.26	0.29	0.34	0.22	0.20	0.20	0.17
◆ Nonmetal	0.70	0.15	0.22	0.11	0.31	0.73	0.14	0.20	0.09	0.16



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	32.71	37.20	38.42	37.76	33.99	37.37	33.07	36.87	34.44	36.59
▲ Coal	28.62	32.81	33.73	32.54	29.42	32.86	28.56	32.34	30.58	32.89
◆ Nonmetal	2.13	2.34	2.22	2.83	2.72	2.49	2.30	2.37	1.56	1.70
▼ Petro & Chem	1.48	1.55	2.00	1.72	1.38	1.47	1.59	1.54	1.41	1.23
★ Other	0.47	0.50	0.47	0.66	0.47	0.56	0.62	0.61	0.90	0.77

Monongahela River - Downbound

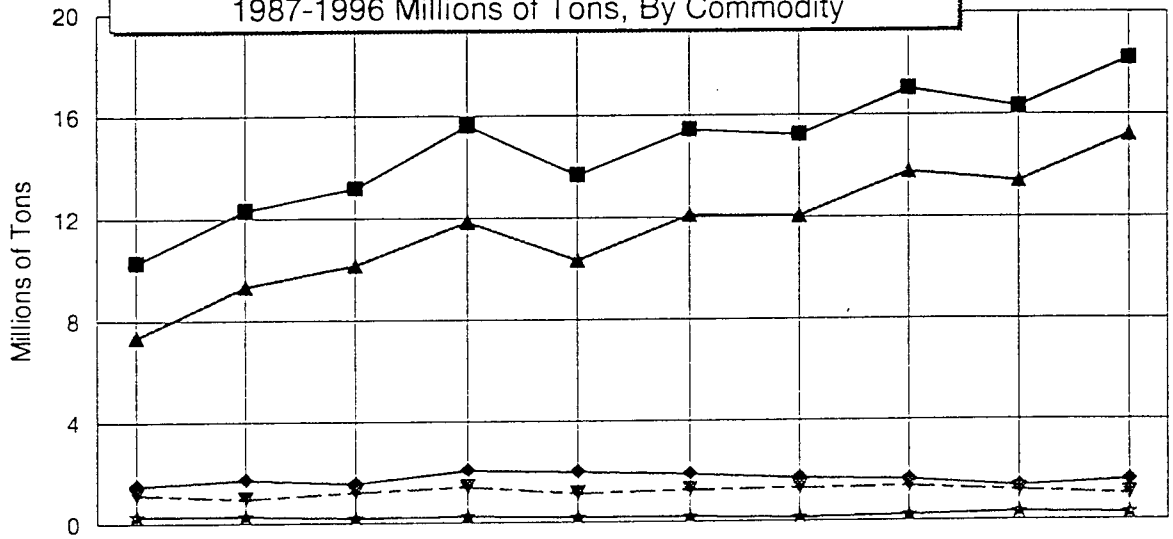
1987-1996 Millions of Tons, By Commodity



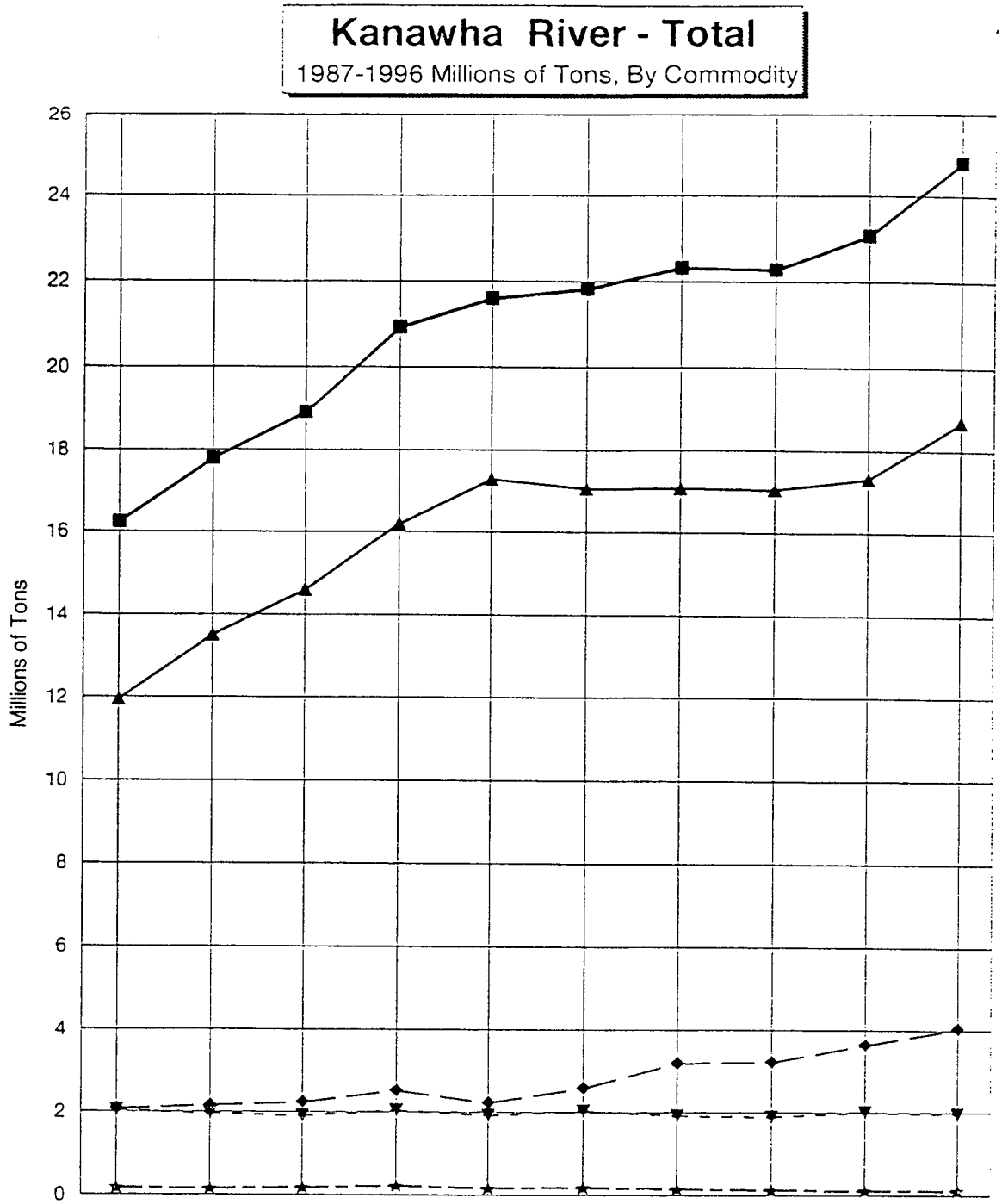
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	22.42	24.89	25.25	22.07	20.31	21.92	17.82	19.84	18.13	18.41
▲ Coal	21.29	23.48	23.58	20.51	19.10	20.77	16.53	18.57	17.17	17.67
★ Other	0.51	0.79	1.02	0.81	0.50	0.55	0.73	0.55	0.78	0.65
◆ Nonmetals	0.62	0.62	0.65	0.75	0.71	0.60	0.57	0.73	0.19	0.08

Monongahela River - Upbound

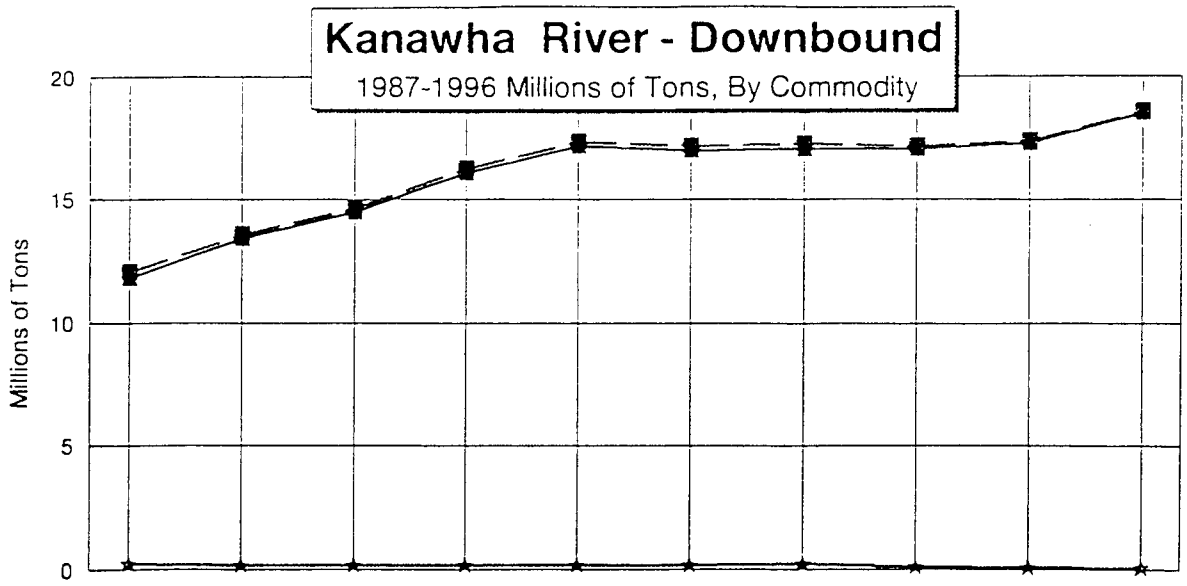
1987-1996 Millions of Tons, By Commodity



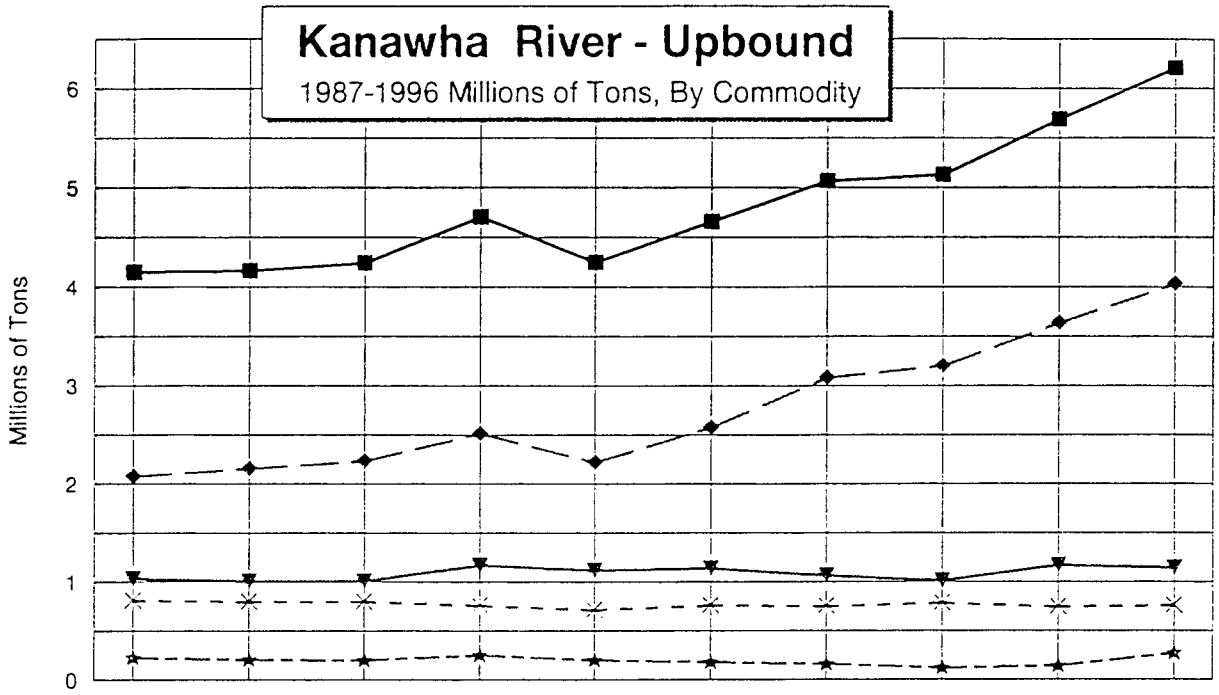
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	10.28	12.31	13.17	15.62	13.69	15.46	15.25	17.03	16.32	18.18
▲ Coal	7.33	9.33	10.15	11.85	10.32	12.08	12.04	13.77	13.41	15.22
◆ Nonmetal	1.51	1.71	1.57	2.07	2.01	1.90	1.72	1.65	1.37	1.61
▼ Petro & Chem	1.14	0.98	1.23	1.42	1.14	1.27	1.32	1.37	1.20	1.05
★ Other	0.31	0.28	0.22	0.27	0.22	0.21	0.16	0.24	0.34	0.29



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	16.24	17.79	18.91	20.95	21.60	21.83	22.32	22.28	23.06	24.8
▲ Coal	11.95	13.51	14.58	16.18	17.28	17.05	17.07	17.05	17.32	18.7
◆ Nonmetal	2.08	2.16	2.23	2.52	2.22	2.58	3.18	3.21	3.63	4.0
▼ Petro & Chem	2.04	1.96	1.91	2.03	1.93	2.02	1.91	1.90	2.00	2.0
★ Other	0.17	0.16	0.18	0.22	0.17	0.18	0.15	0.13	0.11	0.1



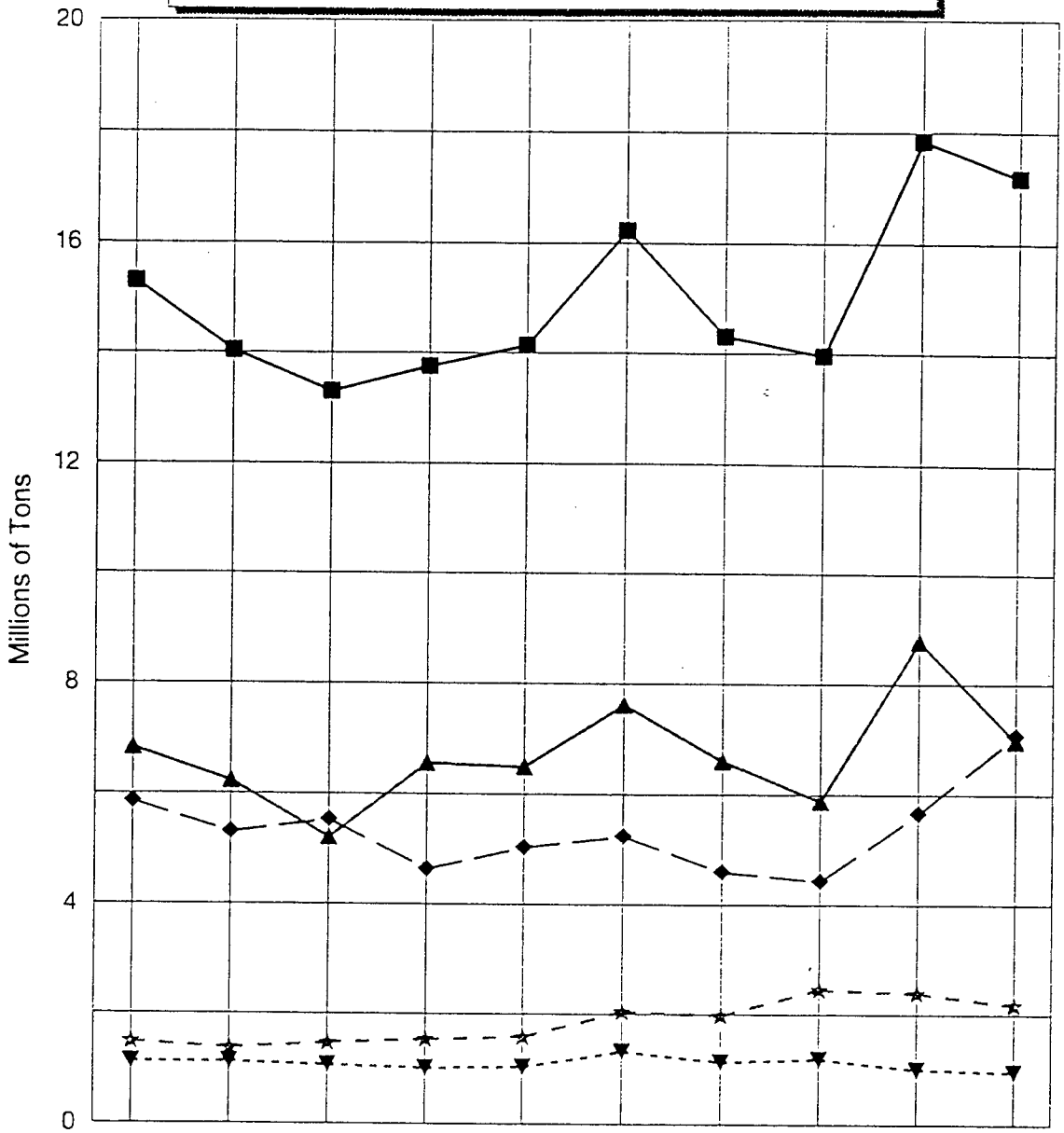
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	12.09	13.62	14.67	16.25	17.36	17.17	17.25	17.16	17.37	18.6
▲ Coal	11.86	13.45	14.51	16.07	17.17	16.99	17.03	17.03	17.28	18.5
★ Other	0.23	0.17	0.16	0.17	0.18	0.18	0.22	0.12	0.09	0.1



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	4.15	4.16	4.24	4.70	4.25	4.65	5.06	5.13	5.69	6.2
◆ Nonmetal	2.08	2.16	2.23	2.52	2.22	2.58	3.09	3.20	3.63	4.0
▼ Petro	1.03	1.01	1.00	1.17	1.11	1.14	1.06	1.02	1.17	1.1
✳ Chemical	0.81	0.80	0.80	0.76	0.71	0.76	0.75	0.79	0.75	0.8
★ Other	0.22	0.20	0.20	0.26	0.20	0.18	0.16	0.12	0.14	0.3

Cumberland River - Total

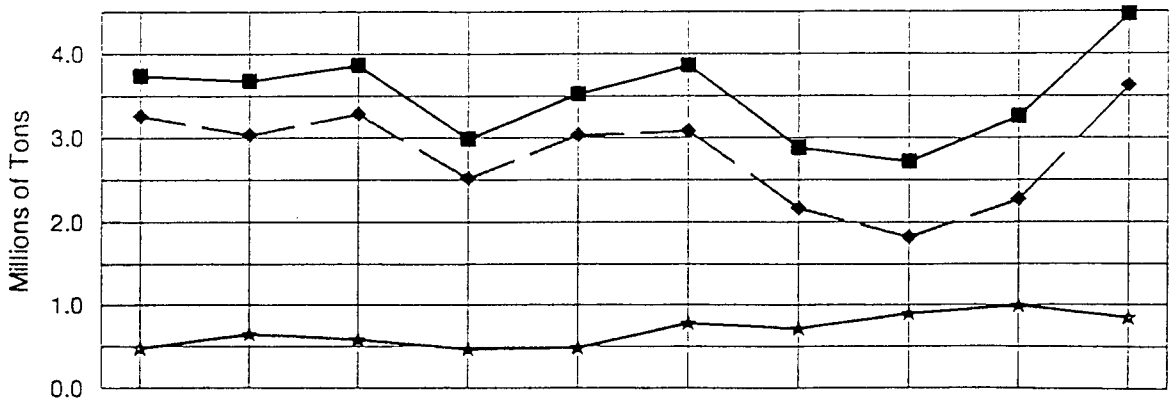
1987-1996 Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total	15.29	14.03	13.29	13.74	14.14	16.22	14.29	13.95	17.84	17.17
▲Coal	6.83	6.22	5.21	6.55	6.48	7.61	6.59	5.88	8.77	6.96
◆Nonmetal	5.85	5.30	5.54	4.64	5.04	5.24	4.59	4.43	5.66	7.06
★Other	1.49	1.38	1.47	1.54	1.58	2.05	1.98	2.45	2.39	2.18
▼Petro & Chem	1.12	1.13	1.07	1.01	1.05	1.32	1.13	1.19	1.01	0.97

Cumberland River - Downbound

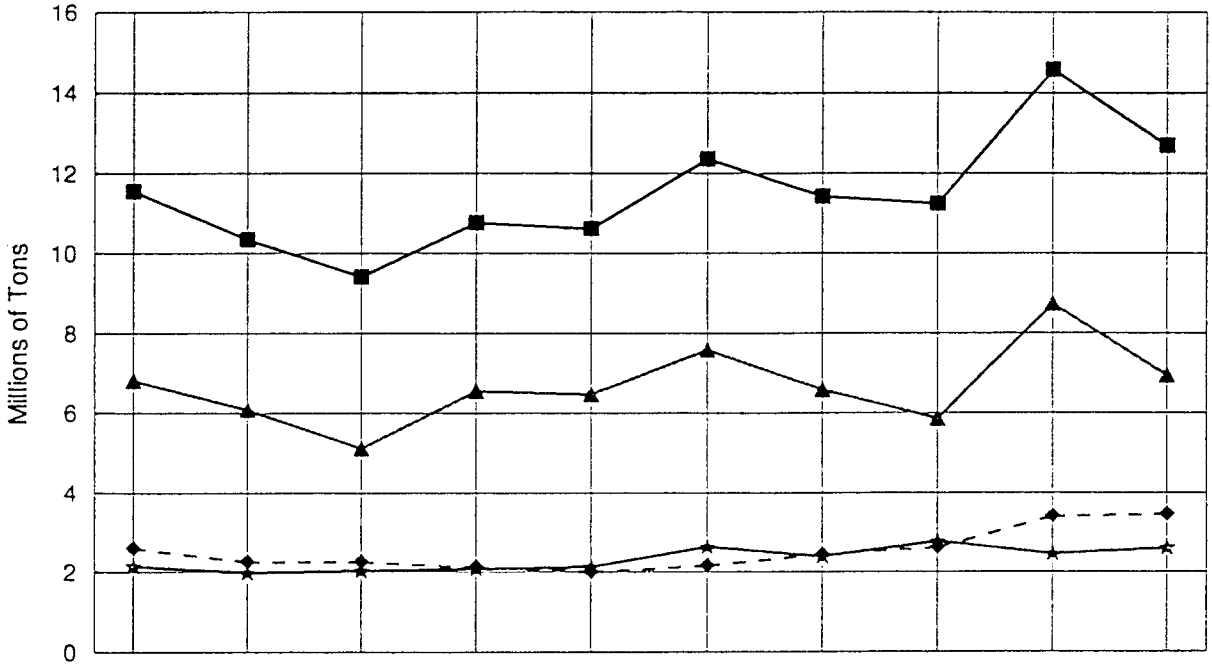
1987-1996 Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	3.74	3.68	3.86	2.98	3.52	3.86	2.88	2.72	3.26	4.47
◆ Nonmetal	3.26	3.03	3.28	2.51	3.04	3.08	2.16	1.82	2.27	3.62
★ Other	0.48	0.64	0.59	0.47	0.49	0.78	0.72	0.89	0.99	0.85

Cumberland River - Upbound

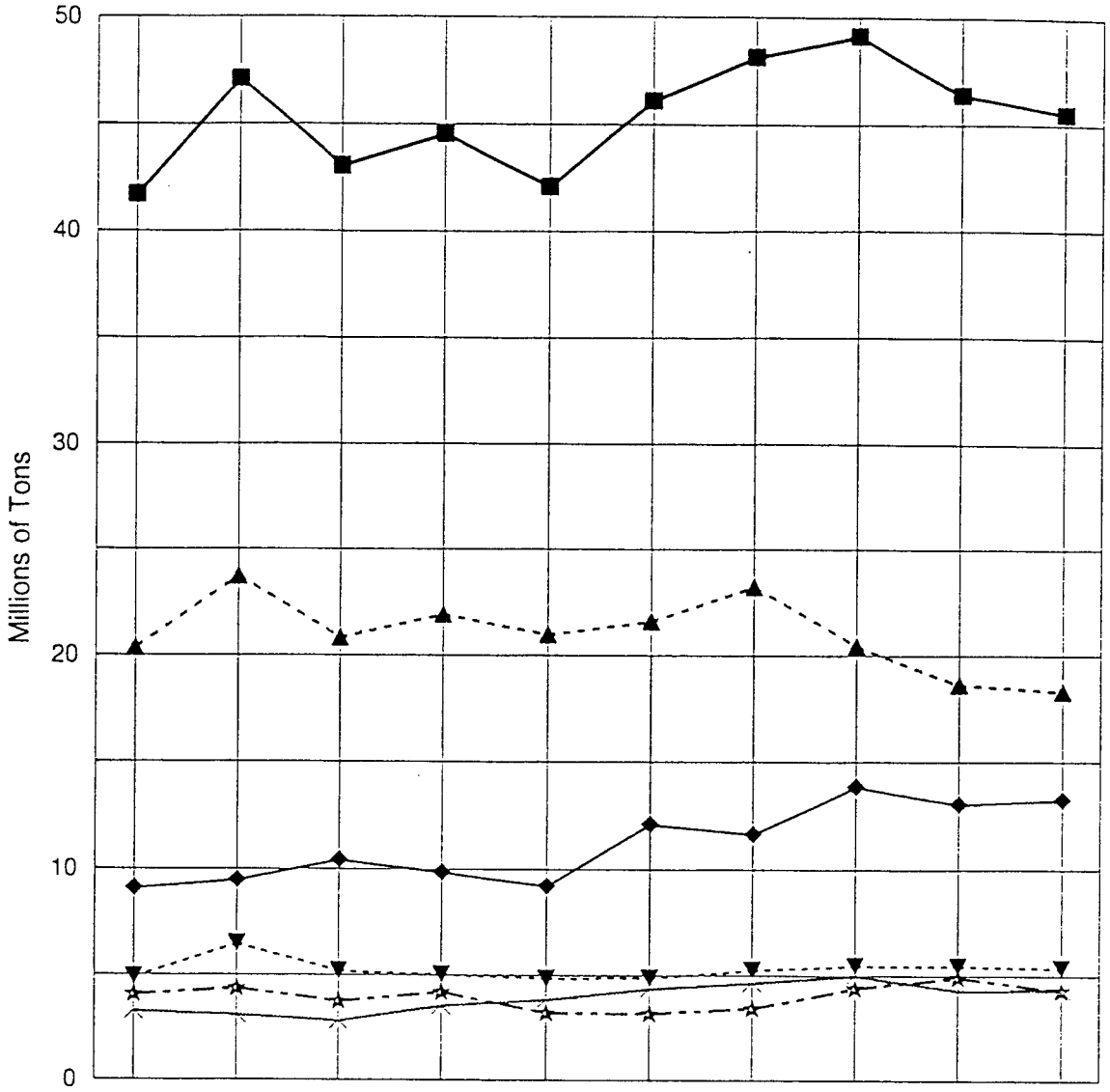
1987-1996 Millions of Tons, By Commodity



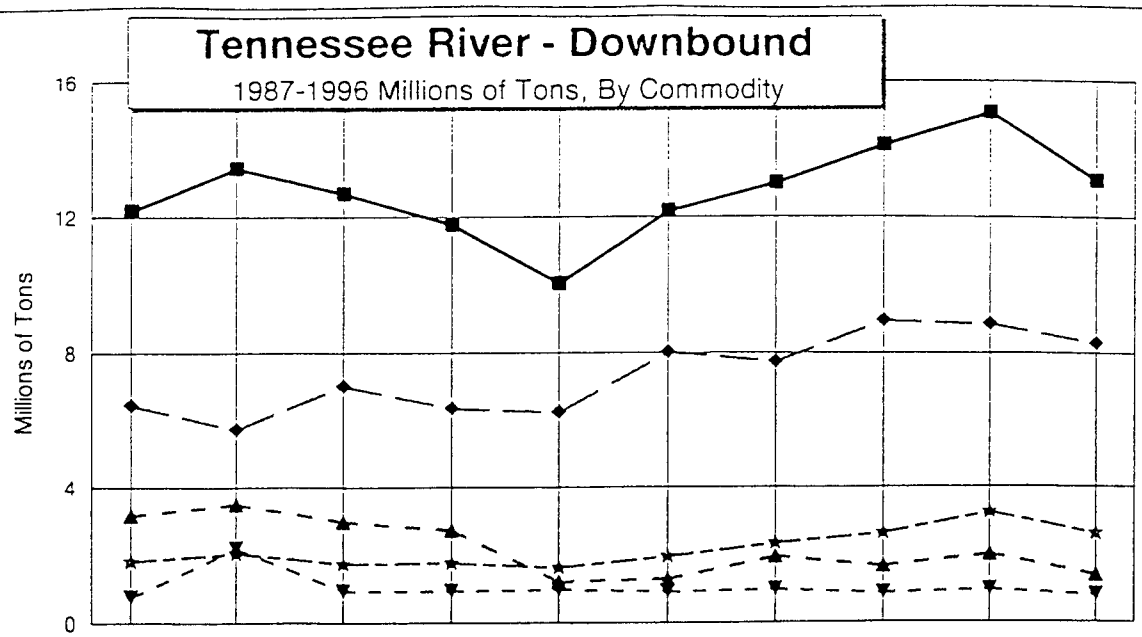
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	11.55	10.35	9.42	10.76	10.61	12.36	11.42	11.24	14.58	12.70
▲ Coal	6.81	6.10	5.13	6.55	6.48	7.58	6.58	5.86	8.73	6.94
◆ Nonmetal	2.60	2.27	2.26	2.13	2.00	2.16	2.43	2.61	3.39	3.44
★ Other	2.15	1.98	2.04	2.08	2.14	2.63	2.40	2.77	2.45	2.59

Tennessee River - Total

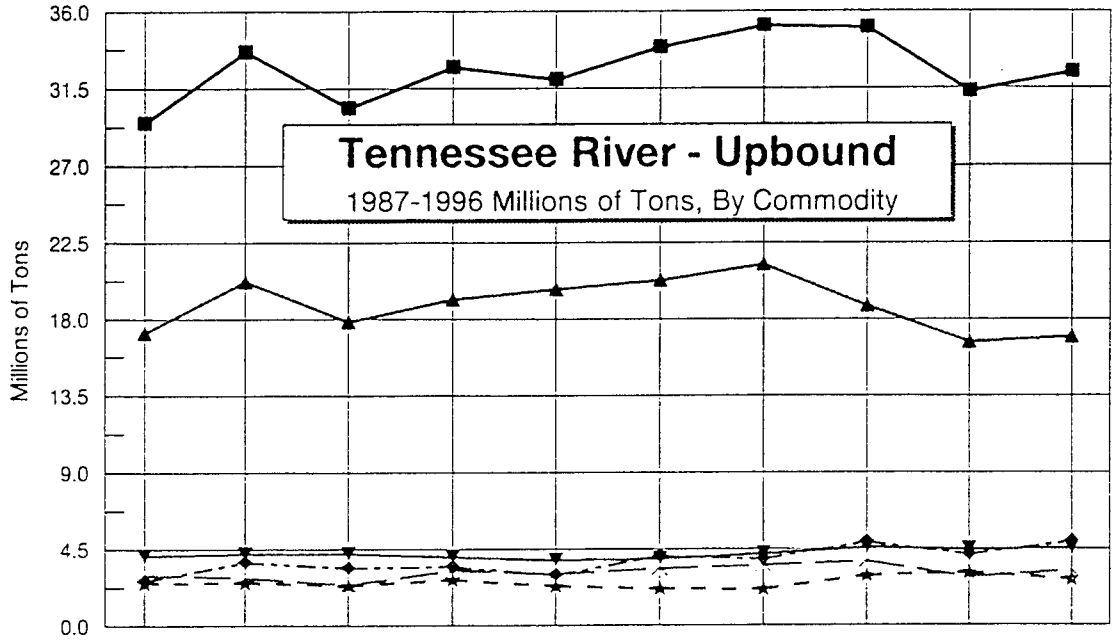
1987-1996 Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■Total	41.71	47.10	43.06	44.51	42.09	46.08	48.16	49.14	46.39	45.5
▲Coal	20.34	23.70	20.82	21.88	20.97	21.56	23.18	20.43	18.66	18.3
◆Nonmetal	9.10	9.46	10.44	9.84	9.22	12.12	11.64	13.86	13.04	13.2
▼Petro & Chem	4.92	6.47	5.21	5.03	4.86	4.87	5.25	5.47	5.48	5.4
★Other	4.08	4.36	3.75	4.20	3.20	3.16	3.43	4.38	4.92	4.3
Farm	3.27	3.11	2.84	3.57	3.83	4.37	4.66	5.00	4.29	4.3



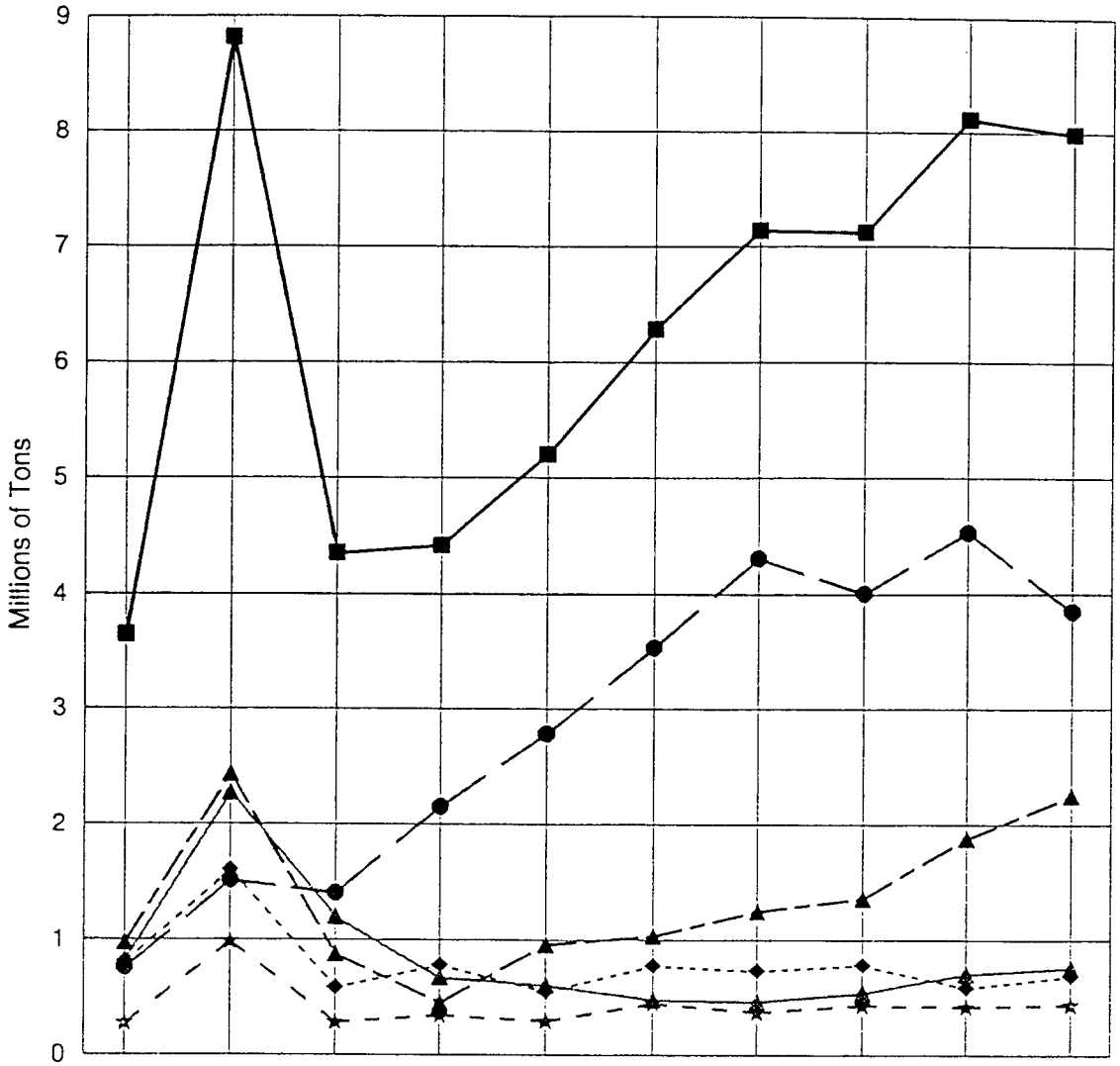
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	12.19	13.44	12.70	11.78	10.05	12.18	13.00	14.10	15.07	13.1
◆ Nonmetal	6.43	5.69	7.00	6.32	6.22	8.02	7.74	8.95	8.85	8.3
★ Other	1.82	2.05	1.76	1.78	1.64	1.96	2.35	2.62	3.25	2.6
▲ Coal	3.16	3.50	2.98	2.73	1.21	1.29	1.94	1.65	2.01	1.4
▼ Petro & Chem	0.78	2.20	0.95	0.95	0.99	0.92	0.97	0.88	0.96	0.8



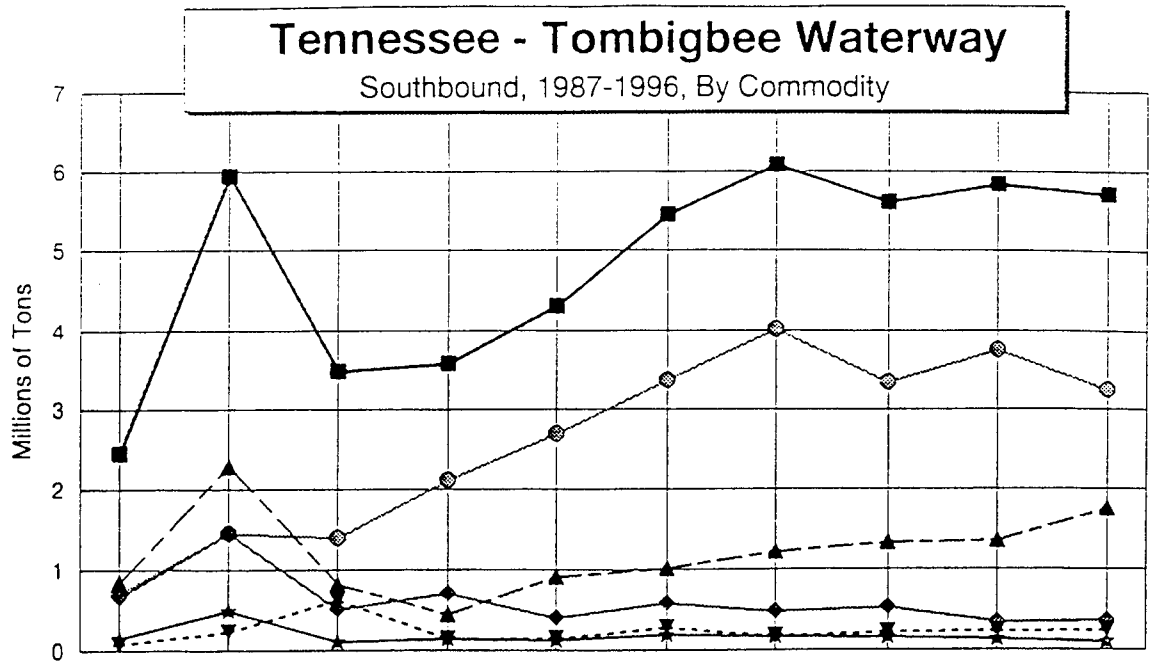
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	29.52	33.66	30.37	32.73	32.03	33.91	35.16	35.04	31.32	32.4
▲ Coal	17.17	20.20	17.83	19.15	19.76	20.27	21.24	18.79	16.65	16.9
▼ Petro & Chem	4.14	4.27	4.26	4.08	3.88	3.96	4.27	4.59	4.52	4.6
◆ Nonmetal	2.66	3.77	3.44	3.51	3.00	4.10	3.91	4.91	4.18	5.0
★ Other	2.53	2.56	2.39	2.72	2.33	2.18	2.15	2.95	3.13	2.7
⌐ Farm	3.01	2.86	2.45	3.26	3.06	3.40	3.59	3.81	2.84	3.3

Tennessee - Tombigbee Waterway

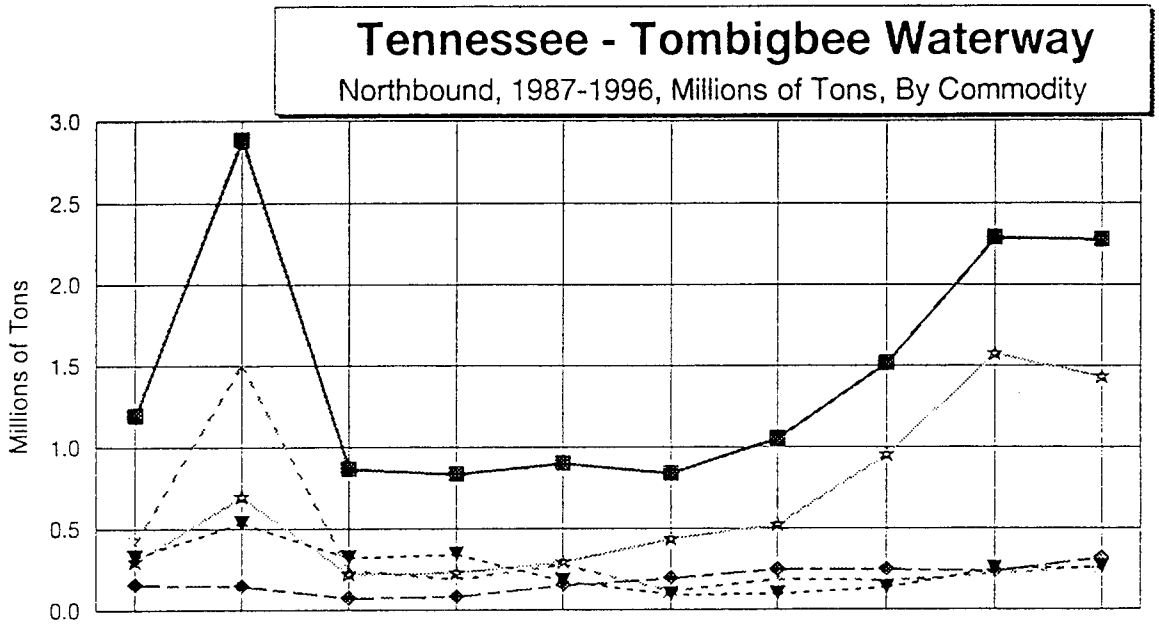
Total, 1986-1995, Millions of Tons, By Commodity



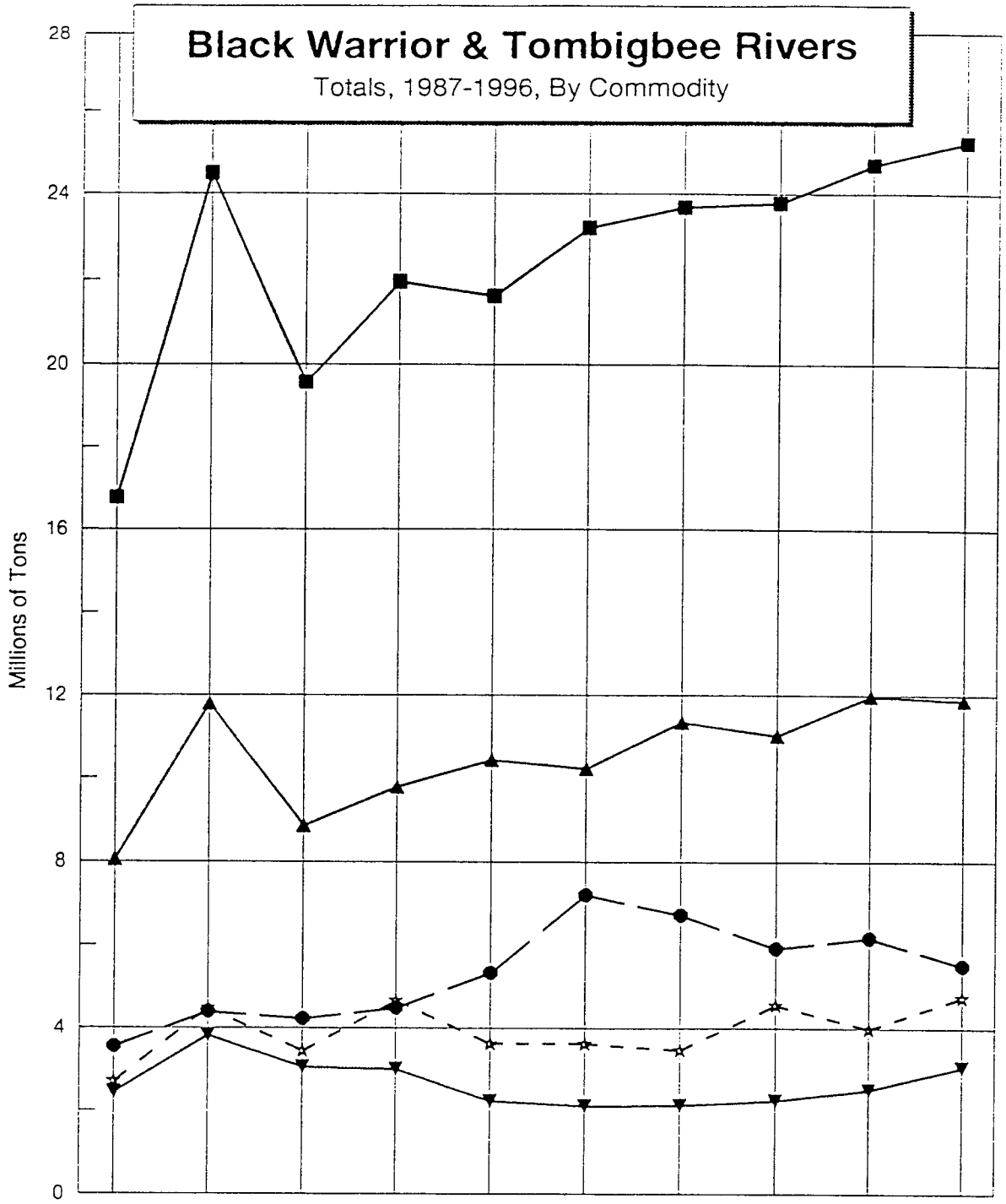
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■Total	3.65	8.82	4.35	4.41	5.20	6.29	7.13	7.12	8.12	8.0
●Wood	0.75	1.51	1.40	2.15	2.78	3.53	4.31	4.00	4.53	3.8
▲Coal	0.98	2.44	0.88	0.45	0.96	1.04	1.25	1.36	1.87	2.3
▲Petro & Chem	0.83	2.28	1.20	0.68	0.61	0.49	0.47	0.54	0.71	0.8
◆Nonmetal	0.81	1.60	0.59	0.79	0.55	0.78	0.73	0.78	0.59	0.7
★Other	0.28	0.99	0.28	0.35	0.30	0.45	0.37	0.43	0.42	0.4



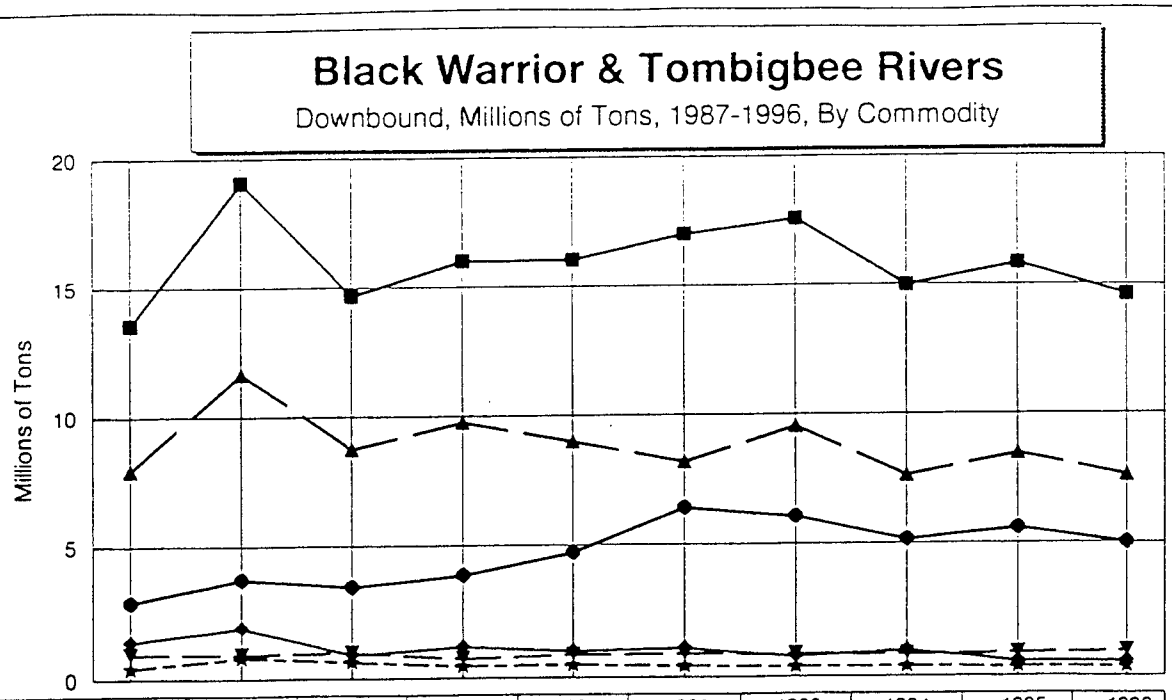
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	2.45	5.94	3.48	3.58	4.30	5.45	6.08	5.60	5.83	5.7
◉ Wood	0.71	1.46	1.40	2.12	2.70	3.37	4.01	3.35	3.75	3.2
▲ Coal	0.85	2.29	0.82	0.45	0.91	1.02	1.22	1.33	1.36	1.8
◆ Nonmetal	0.66	1.45	0.51	0.71	0.40	0.59	0.48	0.53	0.35	0.4
▼ Petro & Chem	0.08	0.24	0.63	0.15	0.16	0.28	0.18	0.23	0.24	0.2
★ Other	0.16	0.50	0.12	0.15	0.13	0.20	0.18	0.16	0.13	0.1



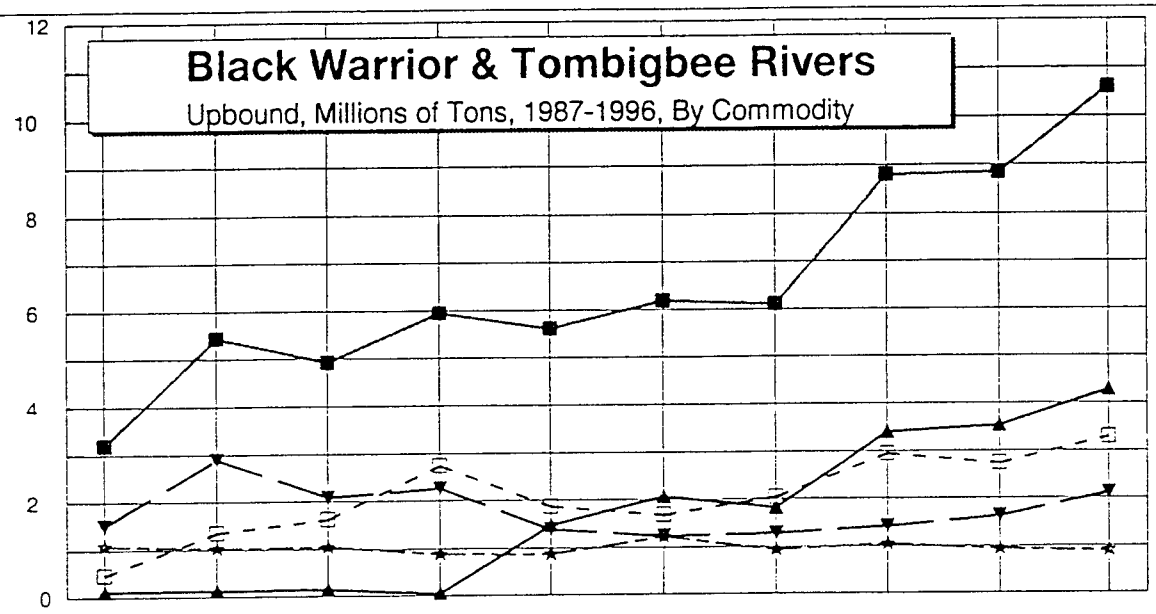
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	1.20	2.88	0.87	0.84	0.90	0.84	1.06	1.52	2.29	2.3
☆ Other	0.30	0.70	0.22	0.23	0.30	0.44	0.52	0.95	1.58	1.4
◆ Nonmetal	0.16	0.15	0.07	0.08	0.15	0.19	0.25	0.25	0.24	0.3
- Chemical	0.42	1.50	0.24	0.18	0.28	0.11	0.19	0.18	0.22	0.3
▼ Petro	0.33	0.54	0.32	0.34	0.18	0.09	0.10	0.14	0.25	0.3



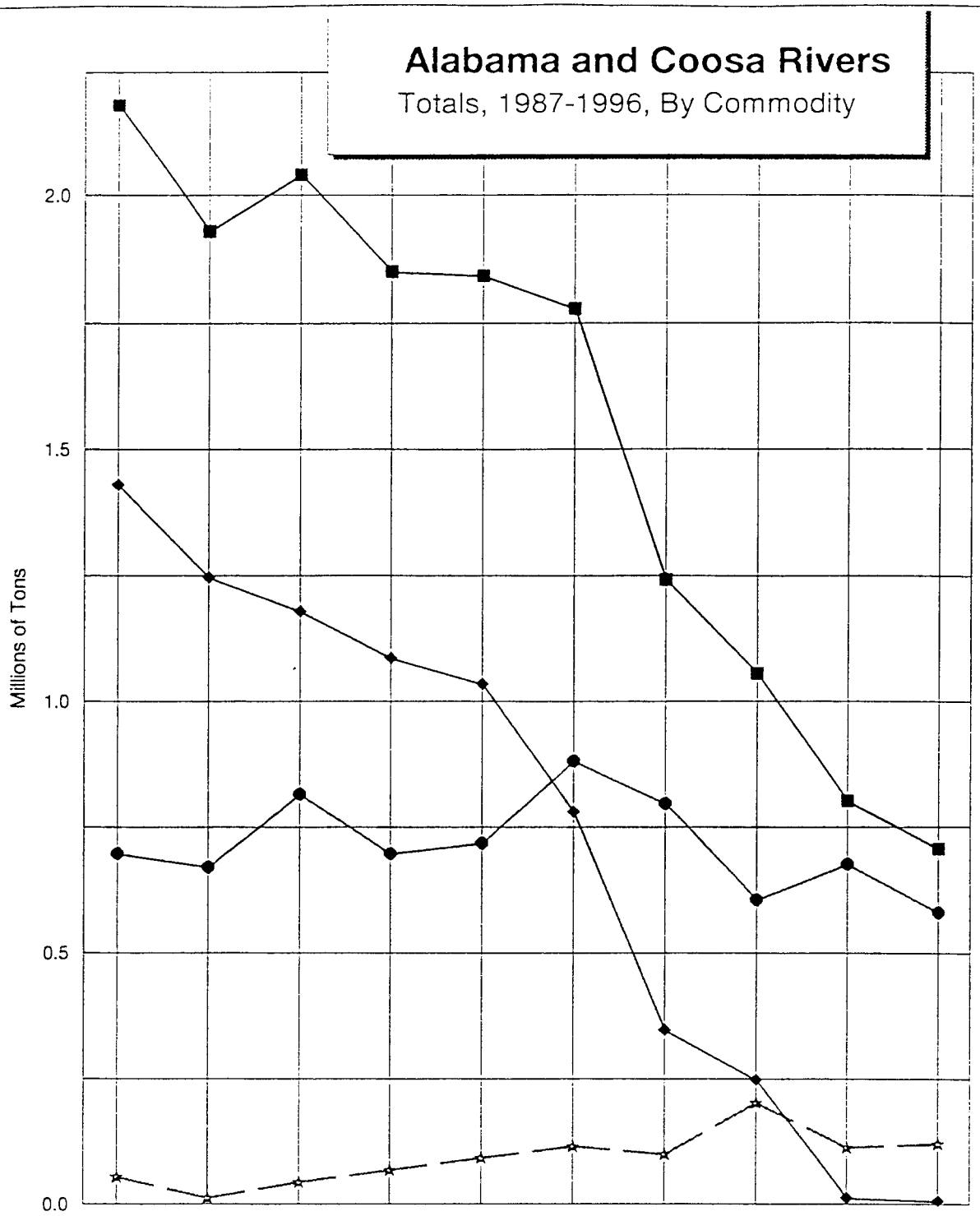
Millions of Tons	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	16.76	24.49	19.57	21.95	21.63	23.19	23.67	23.78	24.67	25.2
▲ Coal	8.06	11.80	8.84	9.79	10.43	10.23	11.34	11.02	11.98	11.9
● Wood	3.55	4.39	4.22	4.48	5.34	7.20	6.73	5.94	6.19	5.5
★ Other	2.71	4.48	3.44	4.66	3.63	3.63	3.47	4.57	3.99	4.8
▼ Petro & Chem	2.44	3.82	3.06	3.01	2.24	2.13	2.14	2.25	2.52	3.1



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ TOTAL	13.56	19.06	14.66	16.01	16.03	17.00	17.58	14.98	15.83	14.6
▲ Coal	7.94	11.67	8.70	9.74	8.96	8.17	9.52	7.62	8.44	7.6
● Wood	2.87	3.74	3.44	3.87	4.72	6.40	6.06	5.17	5.58	5.0
▼ Petro & Chem	0.93	0.92	0.97	0.75	0.85	0.89	0.85	0.84	0.89	0.9
◆ Nonmetal	1.40	1.94	0.91	1.19	1.01	1.11	0.75	0.97	0.55	0.6
★ Other	0.42	0.79	0.63	0.47	0.49	0.43	0.39	0.38	0.37	0.4



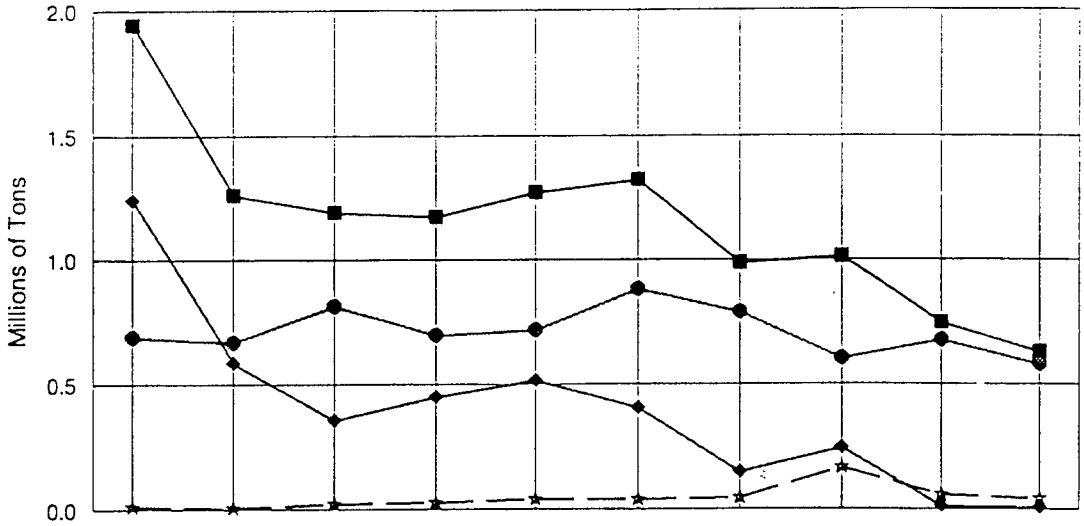
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	3.20	5.42	4.91	5.94	5.60	6.19	6.10	8.80	8.84	10.6
▲ Coal	0.12	0.13	0.14	0.05	1.47	2.06	1.82	3.40	3.54	4.3
⊟ Metal	0.48	1.36	1.63	2.74	1.87	1.68	2.05	2.94	2.74	3.3
▼ Petro & Chem	1.51	2.89	2.09	2.26	1.38	1.24	1.28	1.41	1.63	2.1
★ Other	1.09	1.04	1.05	0.88	0.88	1.22	0.95	1.06	0.94	0.9



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	2.18	1.93	2.04	1.85	1.84	1.78	1.24	1.05	0.80	0.71
● Wood	0.70	0.67	0.82	0.70	0.72	0.88	0.80	0.60	0.68	0.58
☆ Other	0.05	0.01	0.04	0.07	0.09	0.12	0.10	0.20	0.11	0.12
◆ Nonmetal	1.43	1.25	1.18	1.08	1.03	0.78	0.35	0.25	0.01	0.01

Alabama and Coosa Rivers

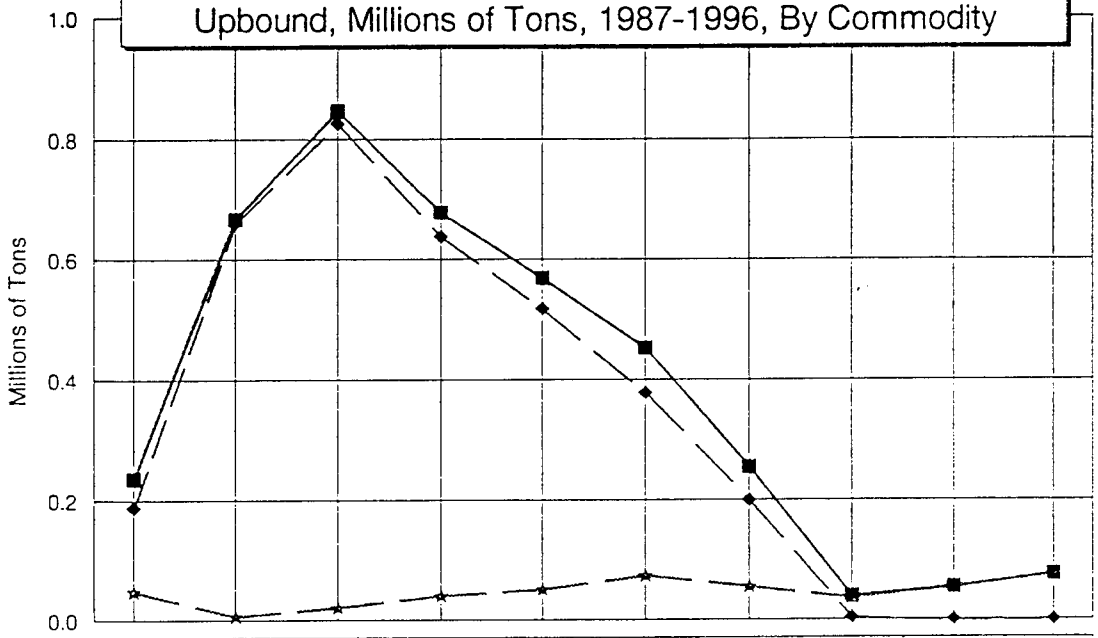
Downbound, Millions of Tons, 1987-1996, By Commodity



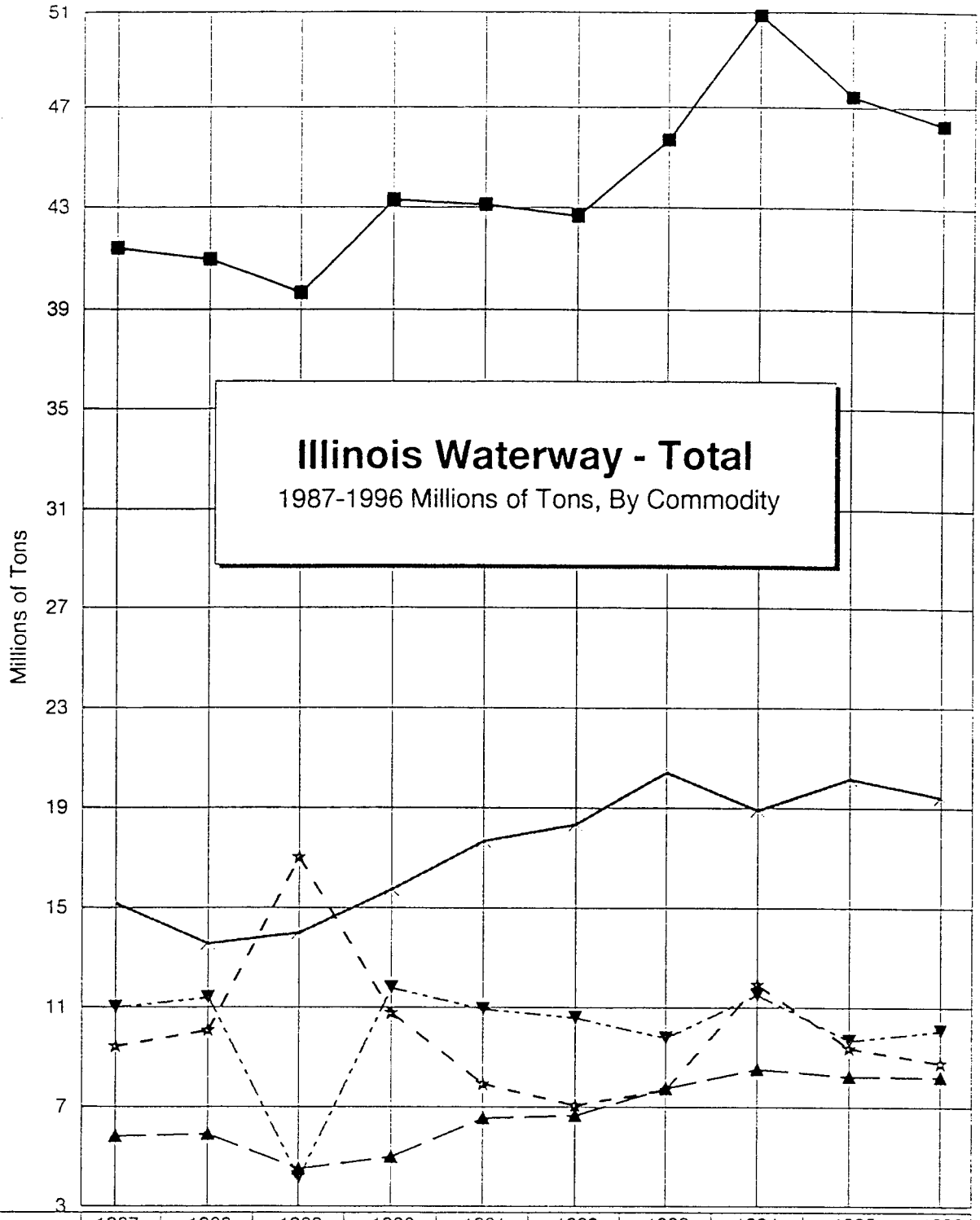
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	1.94	1.26	1.19	1.17	1.27	1.33	0.99	1.01	0.75	0.63
● Wood	0.69	0.67	0.81	0.70	0.72	0.88	0.79	0.60	0.68	0.58
★ Other	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.17	0.06	0.04
◆ Nonmetal	1.24	0.59	0.35	0.45	0.52	0.40	0.15	0.24	0.01	0.01

Alabama and Coosa Rivers

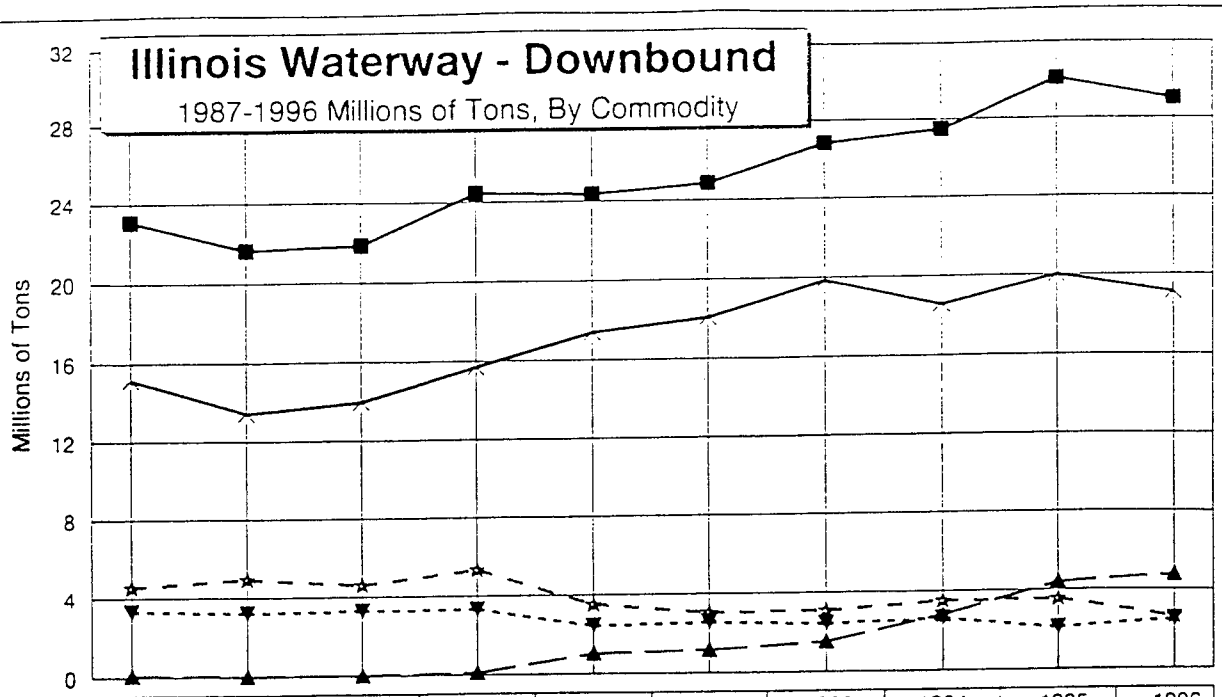
Upbound, Millions of Tons, 1987-1996, By Commodity



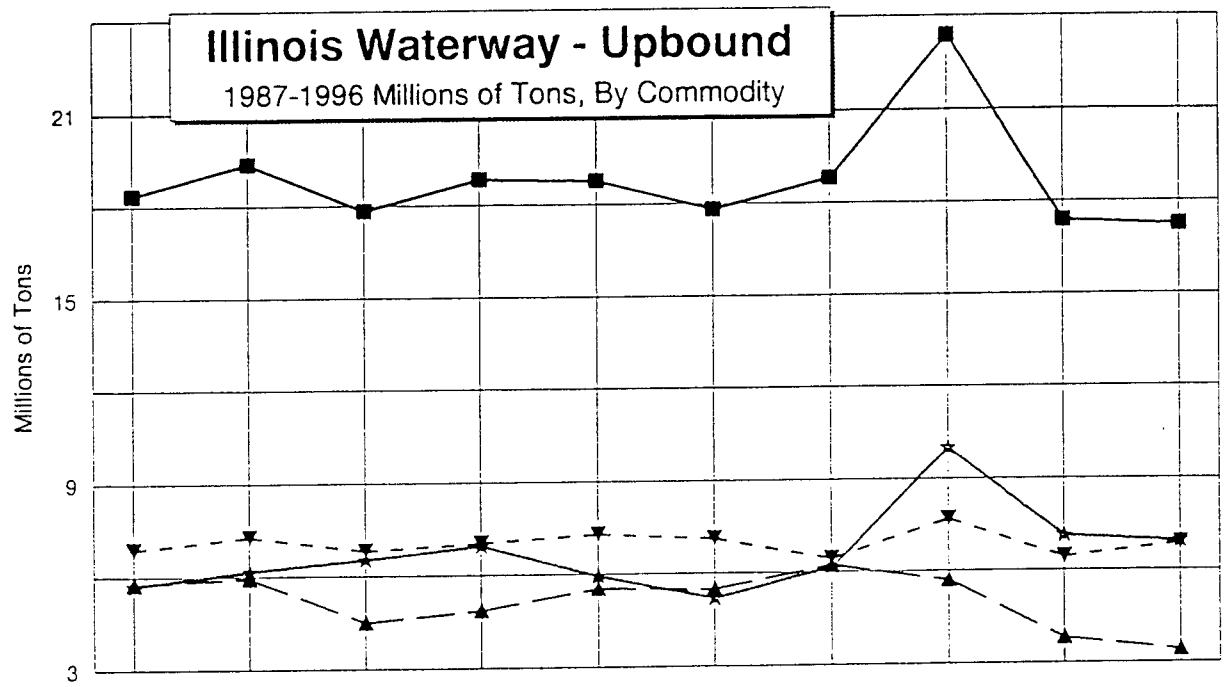
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	0.24	0.67	0.85	0.68	0.57	0.45	0.25	0.04	0.05	0.08
★ Other	0.05	0.01	0.02	0.04	0.05	0.07	0.06	0.04	0.05	0.08
◆ Nonmetal	0.19	0.66	0.82	0.64	0.52	0.38	0.20	0.00	0.00	0.00



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total	41.41	40.97	39.67	43.30	43.11	42.67	45.64	50.88	47.43	46.2
⅄Farm	15.17	13.56	13.99	15.74	17.68	18.35	20.43	18.91	20.17	19.4
★Other	9.40	10.07	17.01	10.77	7.92	7.08	7.68	11.93	9.35	8.7
▼Petro & Chem	10.99	11.41	4.15	11.79	10.94	10.58	9.78	11.51	9.67	10.1
▲Coal	5.85	5.93	4.53	4.99	6.56	6.66	7.75	8.53	8.24	8.2



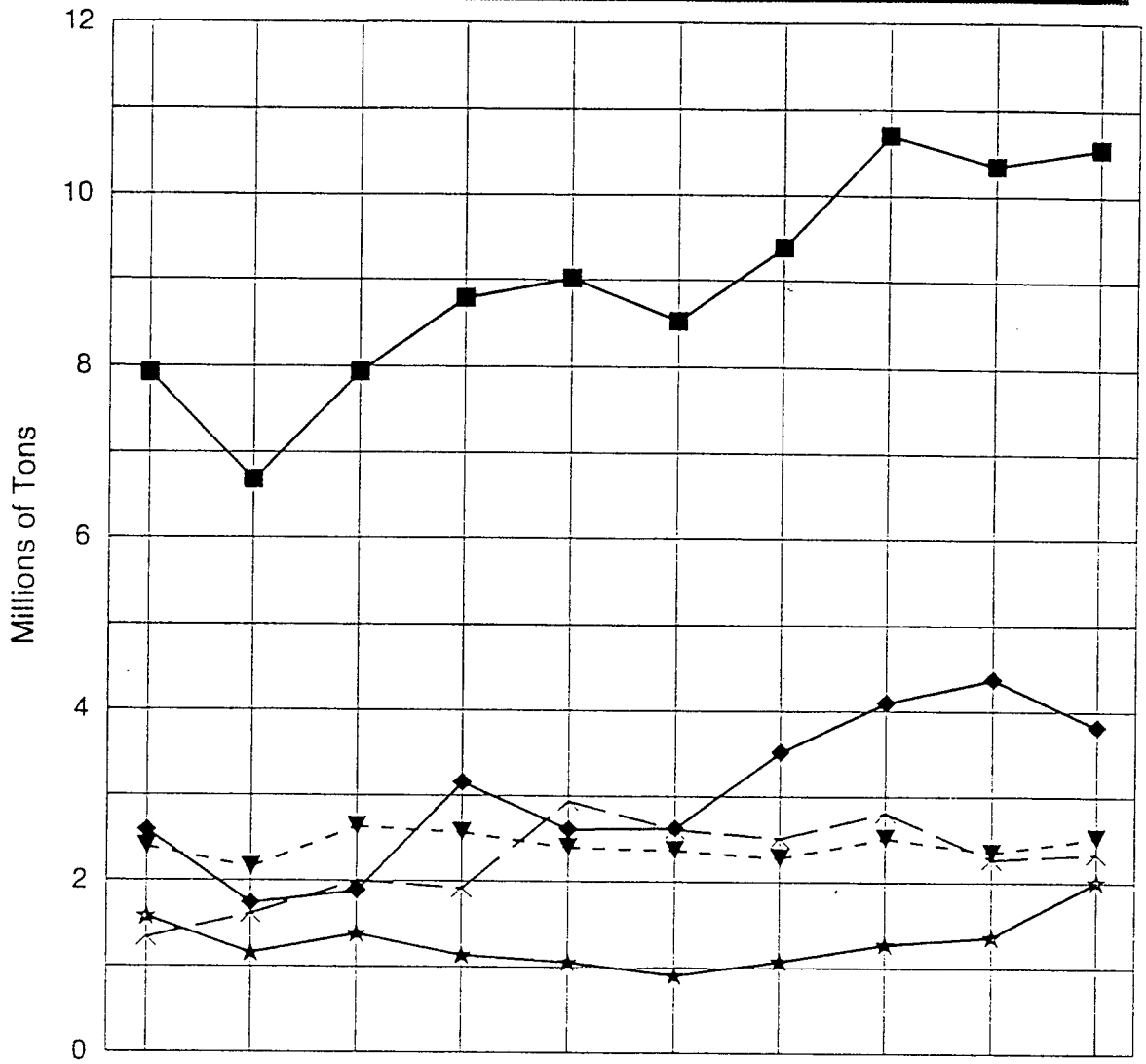
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	23.07	21.61	21.83	24.46	24.34	24.86	26.84	27.50	30.05	29.0
✕ Farm	15.15	13.44	13.94	15.72	17.37	18.08	19.81	18.56	20.00	19.1
▲ Coal	0.09	0.00	0.00	0.12	1.02	1.16	1.54	2.82	4.41	4.8
★ Other	4.53	4.95	4.61	5.32	3.51	3.07	3.07	3.50	3.56	2.6
▼ Petro	3.31	3.22	3.28	3.31	2.43	2.55	2.42	2.63	2.08	2.5



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	18.34	19.36	17.84	18.84	18.77	17.81	18.79	23.38	17.38	17.2
★ Other	5.71	6.17	6.51	6.93	5.94	5.18	6.14	9.99	7.11	6.9
▼ Petro & Chem	6.88	7.26	6.80	7.03	7.29	7.13	6.45	7.58	6.44	6.9
▲ Coal	5.76	5.93	4.53	4.87	5.54	5.50	6.21	5.71	3.83	3.4

McClellan-Kerr Waterway - Total

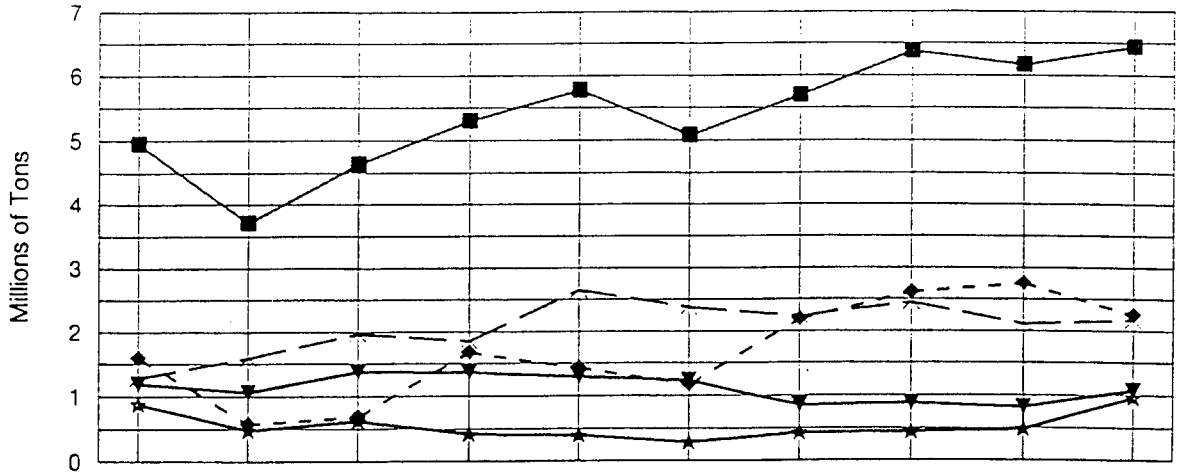
1987-1996*, Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■Total	7.92	6.68	7.93	8.78	9.01	8.53	9.38	10.71	10.35	10.6
◆Nonmetal	2.59	1.74	1.89	3.16	2.61	2.63	3.52	4.09	4.36	3.8
⅄Farm	1.34	1.62	2.01	1.92	2.95	2.62	2.51	2.81	2.27	2.3
▼Petro & Chem	2.40	2.16	2.64	2.57	2.40	2.37	2.28	2.52	2.35	2.5
★Other	1.58	1.16	1.39	1.13	1.06	0.90	1.07	1.28	1.36	2.0

McClellan-Kerr Waterway - Downbound

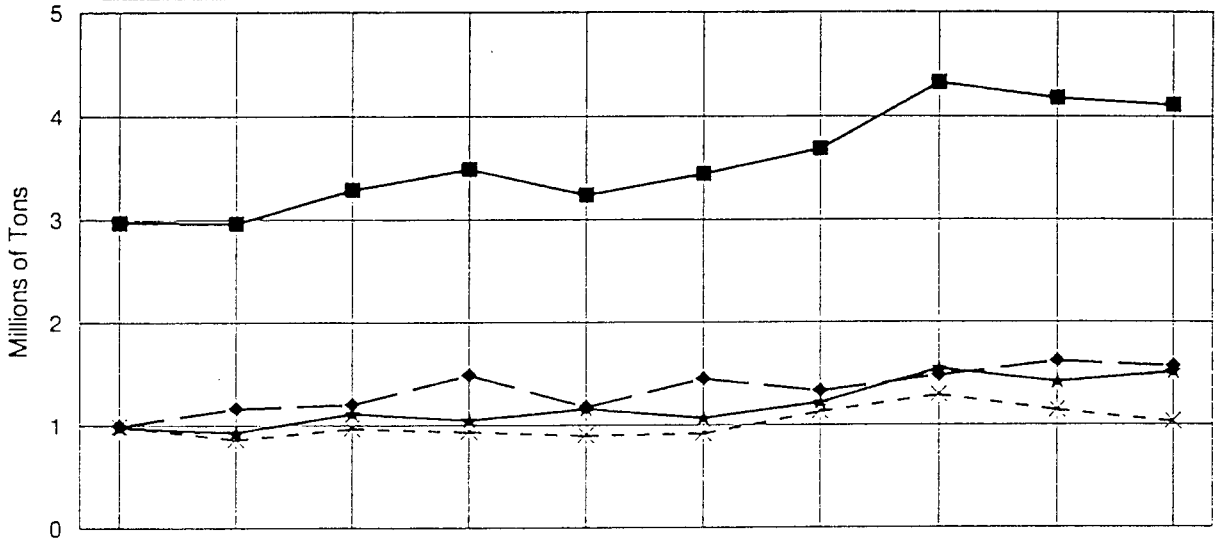
1987-1996, Millions of Tons, By Commodity



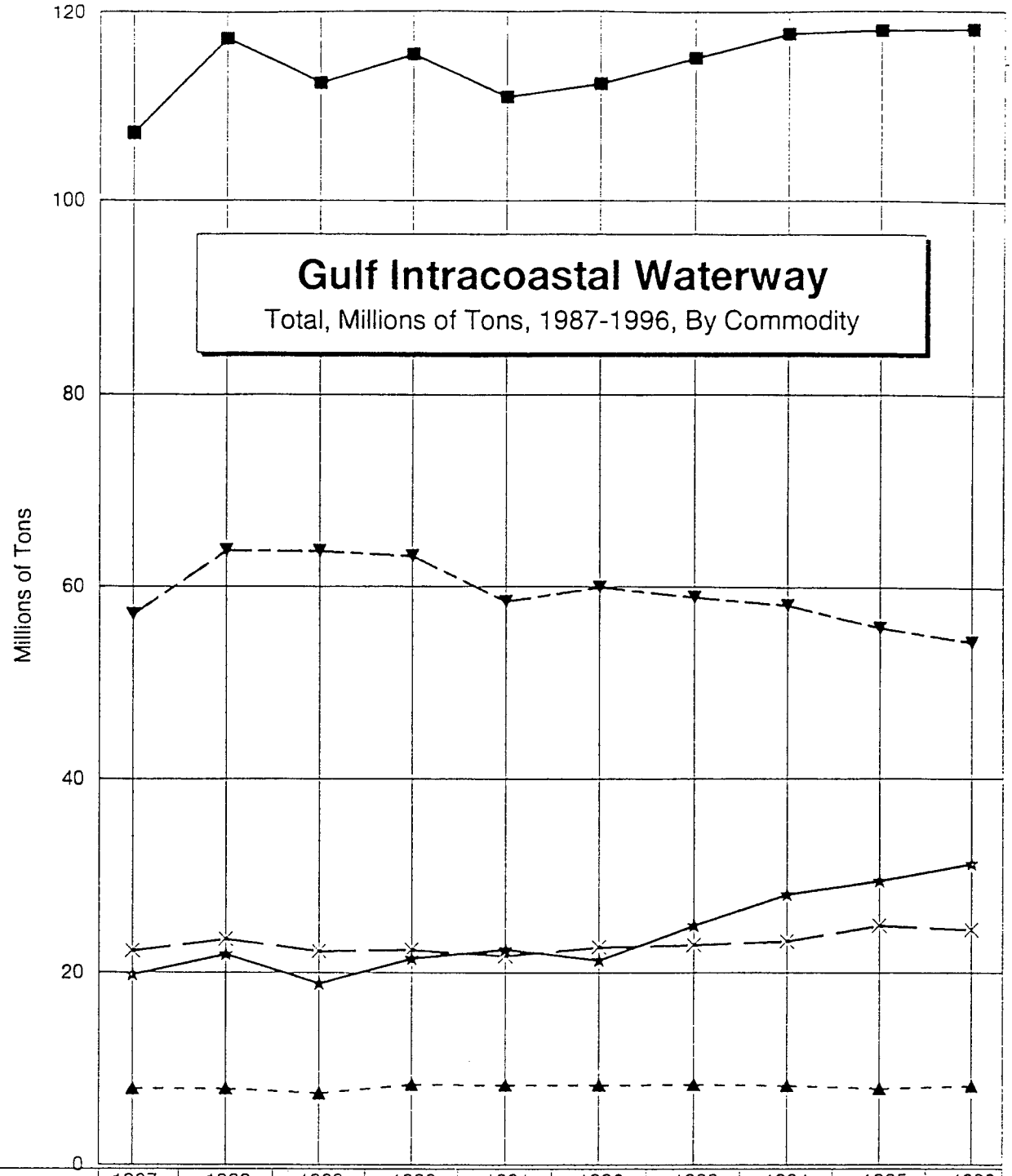
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	4.95	3.71	4.64	5.31	5.78	5.09	5.70	6.38	6.17	6.4
◆ Nonmetal	1.59	0.58	0.68	1.67	1.44	1.18	2.18	2.61	2.75	2.3
✕ Farm	1.28	1.60	1.97	1.86	2.66	2.38	2.24	2.45	2.12	2.2
▼ Petro & Chem	1.19	1.06	1.38	1.36	1.29	1.24	0.85	0.88	0.82	1.1
★ Other	0.88	0.48	0.61	0.41	0.40	0.29	0.42	0.43	0.48	1.0

McClellan-Kerr Waterway - Upbound

1987-1996, Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	2.97	2.96	3.29	3.48	3.23	3.44	3.68	4.33	4.18	4.1
◆ Nonmetal	1.00	1.16	1.20	1.49	1.17	1.45	1.33	1.48	1.61	1.6
★ Other	0.98	0.94	1.11	1.05	1.16	1.07	1.22	1.55	1.42	1.5
✕ Chemical	0.99	0.87	0.97	0.94	0.90	0.92	1.13	1.30	1.15	1.0

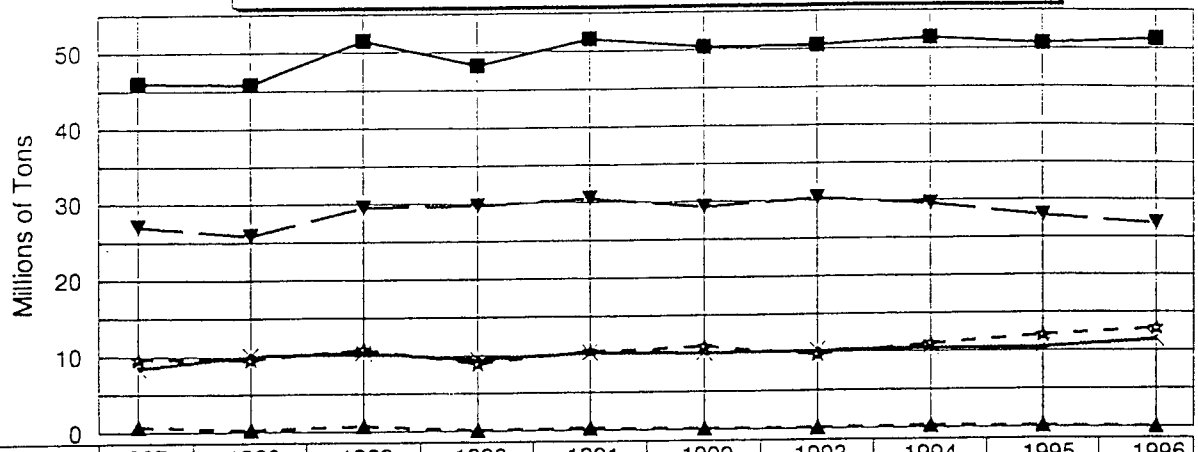


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total	107.00	117.10	112.36	115.38	110.83	112.19	114.94	117.61	117.96	118.03
▼Petro	57.04	63.79	63.76	63.19	58.38	59.93	58.89	58.06	55.69	54.18
★Other	19.72	21.87	18.87	21.41	22.39	21.26	24.80	28.02	29.42	31.17
×Chemical	22.22	23.45	22.20	22.33	21.70	22.61	22.85	23.19	24.85	24.41
▲Coal	8.02	7.99	7.52	8.45	8.35	8.38	8.41	8.34	8.01	8.27

Domestic Tonnage

Gulf Intracoastal Waterway

Westbound, Millions of Tons, 1987-1996, By Commodity

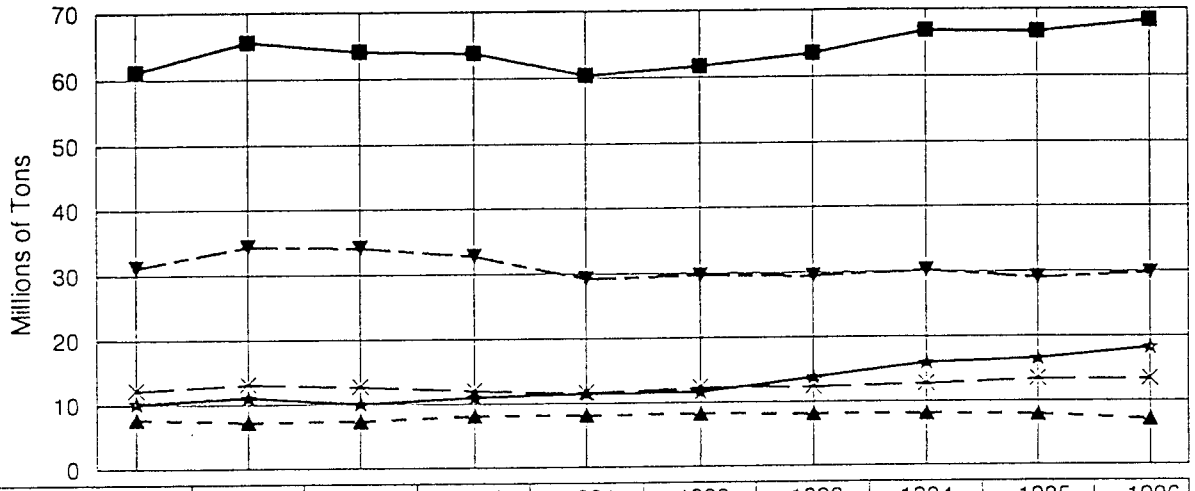


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	45.98	45.82	51.53	48.25	51.57	50.43	50.51	51.43	50.69	51.24
▼ Petro	27.10	25.88	29.54	29.69	30.52	29.23	30.38	29.54	27.91	26.77
★ Other	9.64	9.54	10.83	8.85	10.43	10.94	9.69	11.02	12.00	12.89
✕ Chemical	8.42	10.03	10.39	9.45	10.27	10.03	10.28	10.51	10.50	11.47
▲ Coal	0.82	0.36	0.77	0.26	0.35	0.23	0.16	0.36	0.27	0.11

Domestic Tonnage

Gulf Intracoastal Waterway

Eastbound, Millions of Tons, 1987-1996, By Commodity

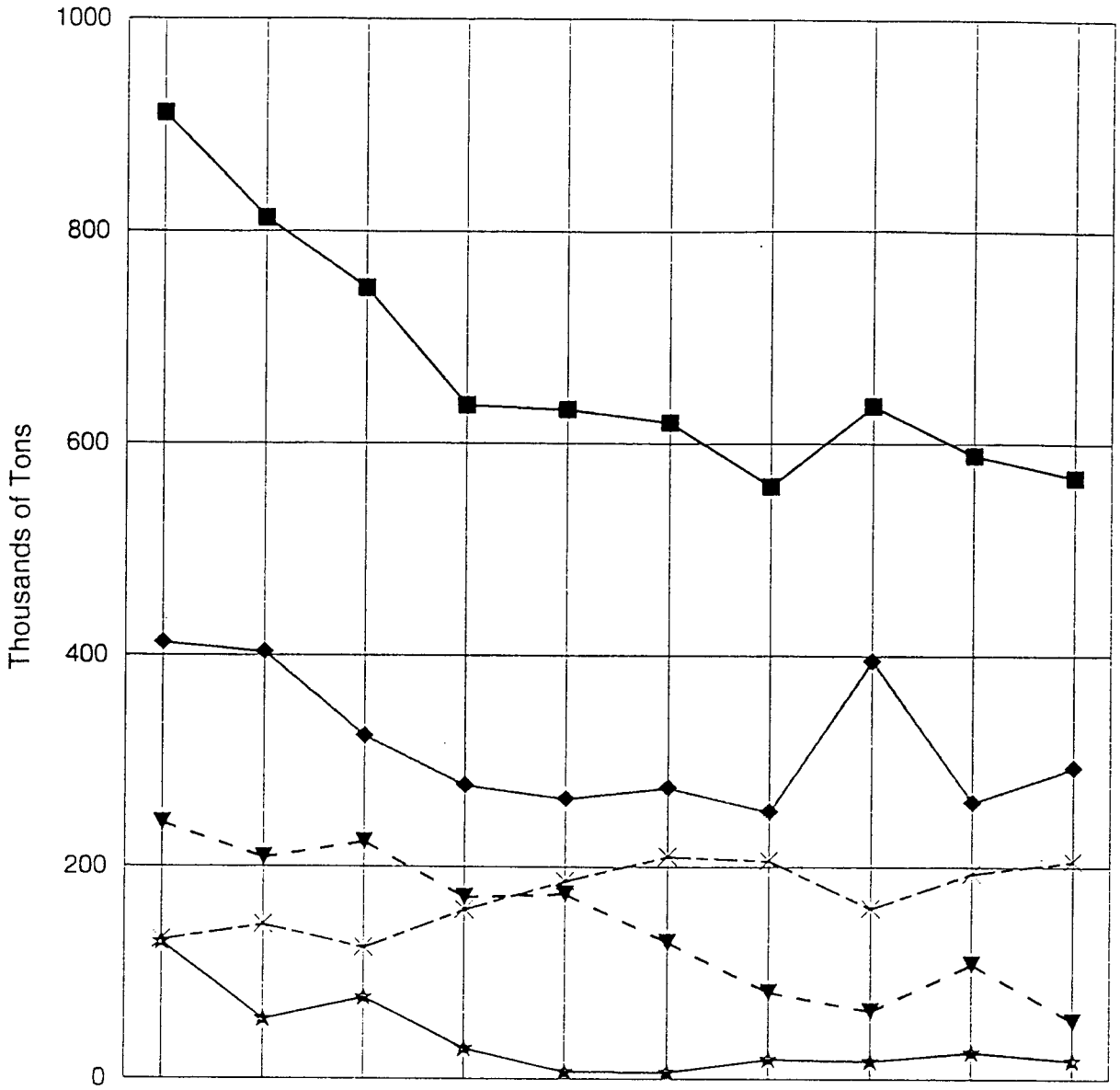


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	61.18	65.57	64.11	63.82	60.39	61.68	63.51	66.92	66.72	68.35
▼ Petro	31.15	34.25	34.07	32.67	29.14	29.56	29.35	30.14	28.92	29.61
★ Other	10.18	11.04	10.02	10.98	11.45	11.56	13.78	16.02	16.52	18.19
✕ Chemical	12.19	13.07	12.75	12.06	11.67	12.34	12.33	12.69	13.38	13.43
▲ Coal	7.66	7.21	7.26	8.10	8.12	8.22	8.05	8.07	7.89	7.11

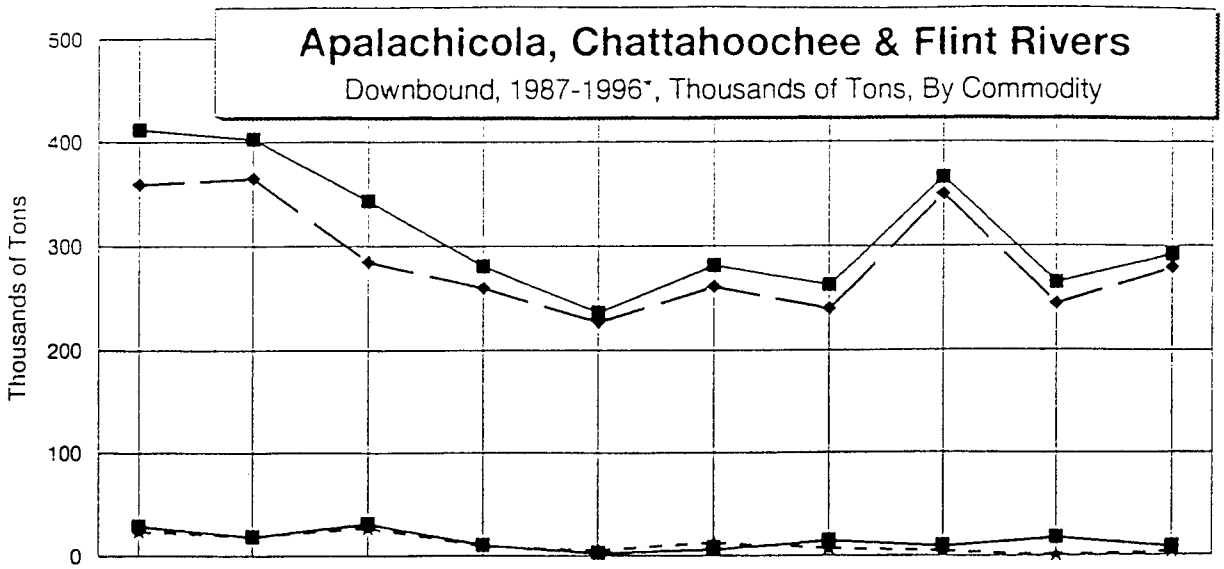
Domestic Tonnage

Apalachicola, Chattahoochee & Flint Rivers

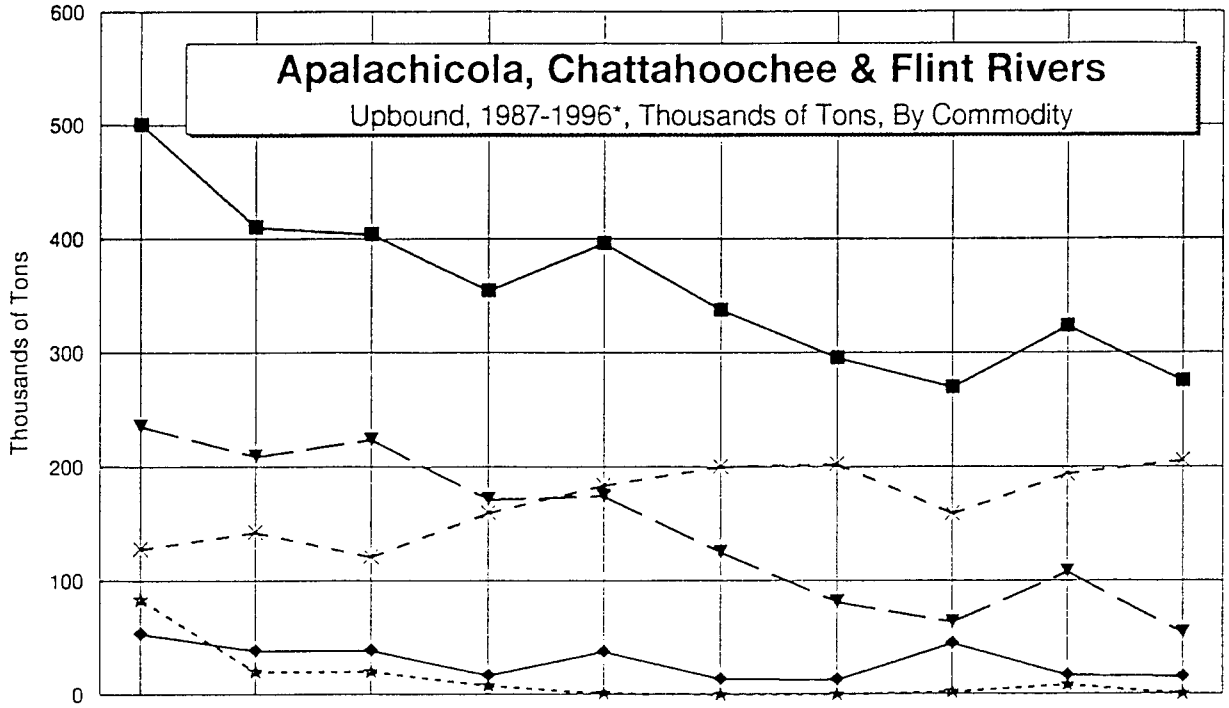
Total, 1987-1996*, Thousands of Tons, By Commodity



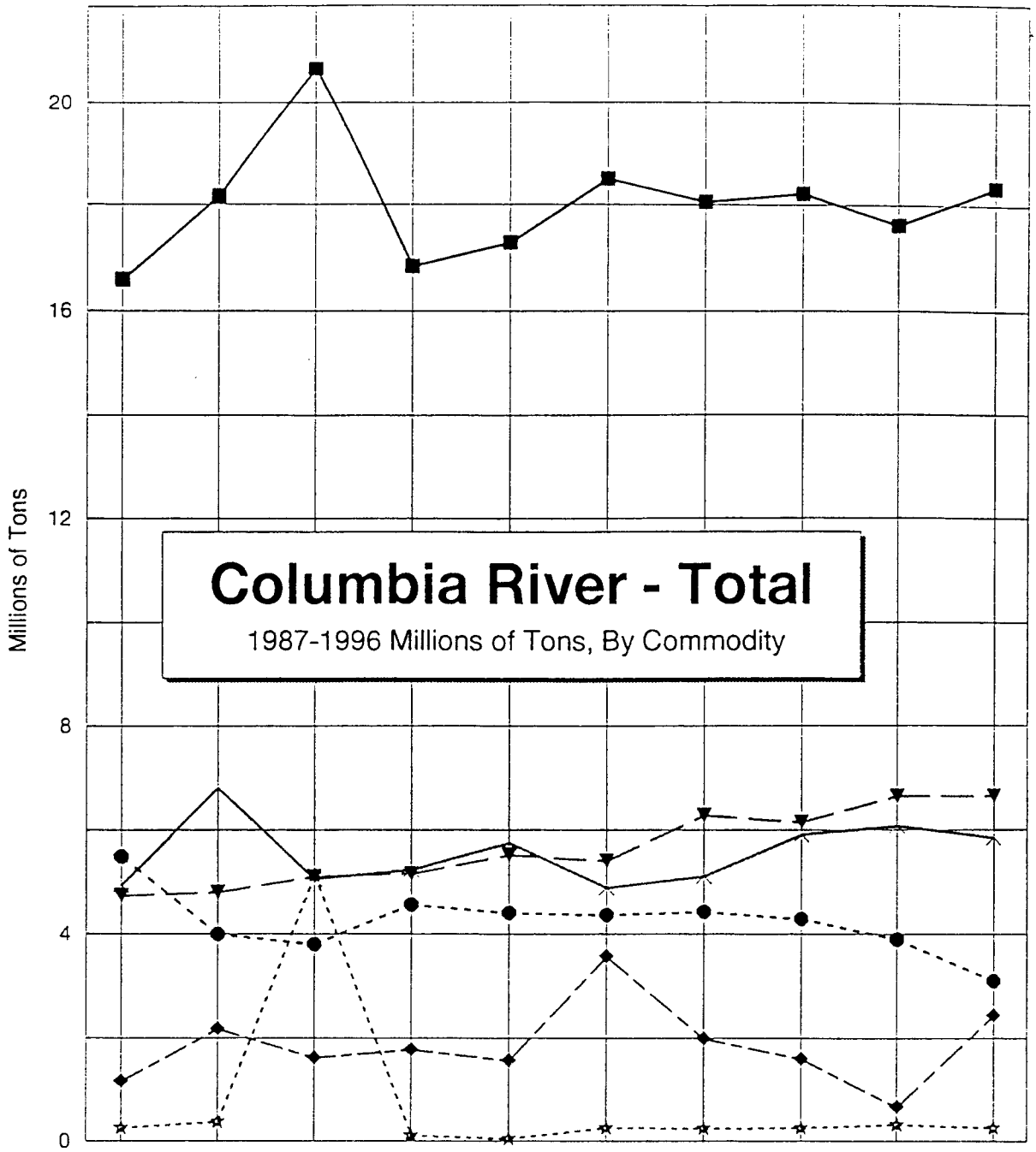
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	912	813	747	636	632	620	559	636	588	567
◆ Nonmetal	412	403	324	277	264	275	253	395	261	294
× Chemical	131	145	124	159	187	210	206	160	194	206
▼ Petro	241	208	223	171	174	128	81	64	108	54
☆ Other	128	56	76	29	7	7	19	17	26	18



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	411	402	343	281	236	282	263	366	265	292
◆ Nonmetal	358	364	284	260	226	261	240	349	244	279
■ Farm	29	19	31	11	3	7	15	10	19	9
★ Other	24	19	27	10	6	14	8	6	2	4

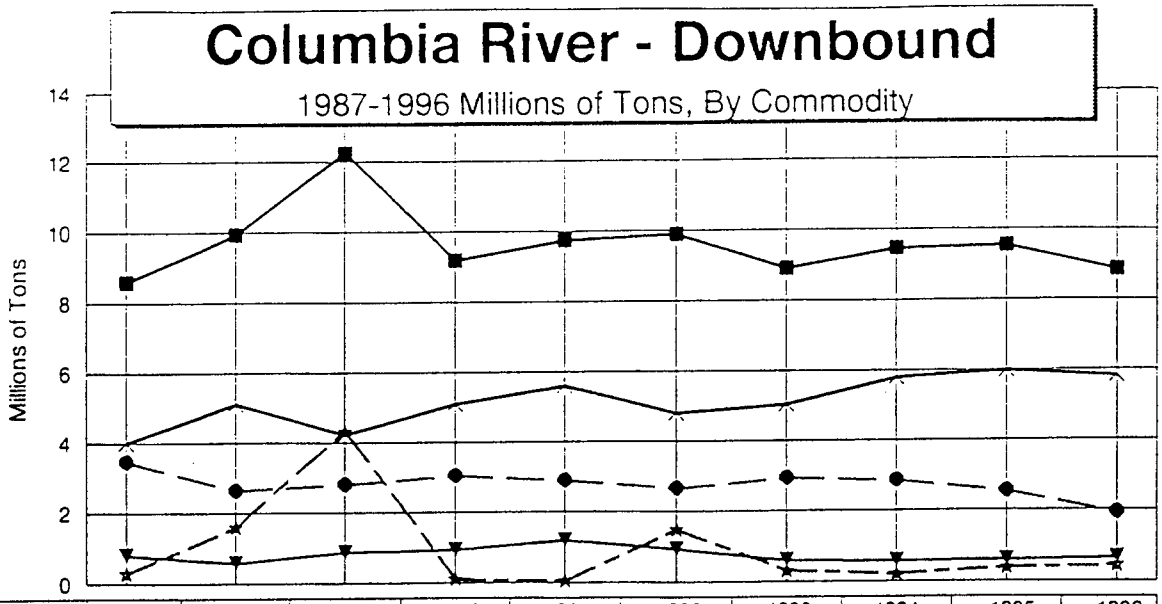


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996*
■ Total	501	410	404	355	396	338	296	270	324	276
✕ Chemical	128	142	121	159	183	200	202	159	194	206
▼ Petro	235	208	223	171	174	125	81	64	108	54
◆ Nonmetal	54	39	39	17	38	14	13	45	17	15
★ Other	84	20	21	8	1	0	0	2	9	0



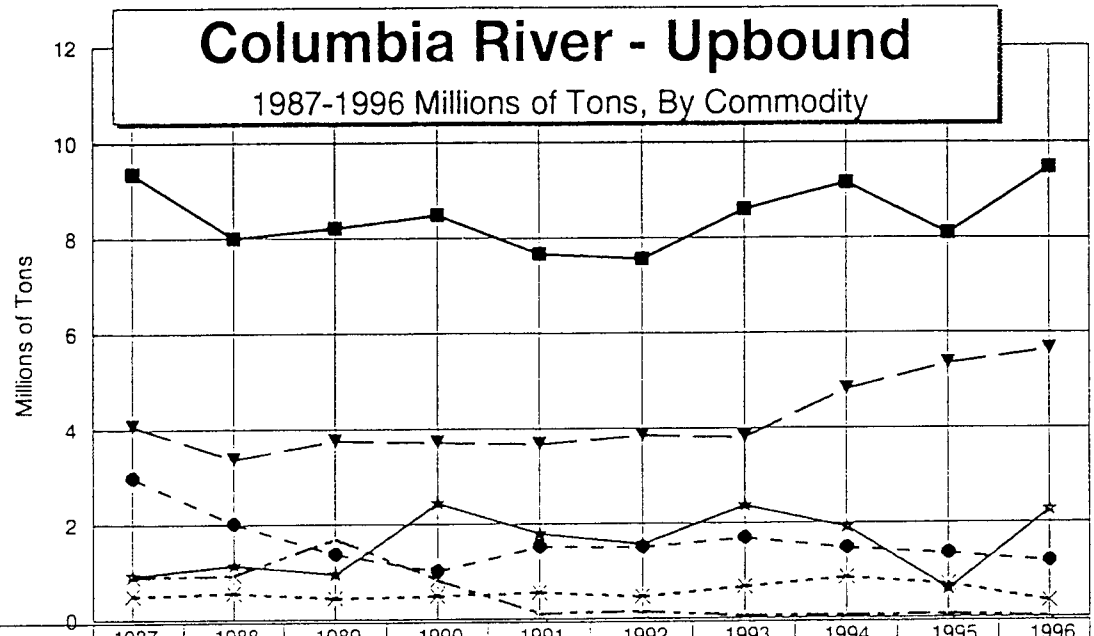
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total	16.59	18.15	20.71	16.84	17.28	18.49	18.05	18.21	17.62	18.3
▼Petro & Chem	4.73	4.79	5.10	5.16	5.52	5.40	6.28	6.15	6.65	6.7
⌃Farm	4.94	6.81	5.05	5.23	5.75	4.88	5.11	5.91	6.07	5.8
●Wood	5.48	3.99	3.80	4.55	4.39	4.35	4.41	4.28	3.90	3.1
◆Nonmetal	1.17	2.18	1.62	1.78	1.56	3.58	1.99	1.60	0.66	2.4
★Other	0.27	0.38	5.13	0.13	0.06	0.27	0.26	0.27	0.33	0.3

Domestic Tonnage



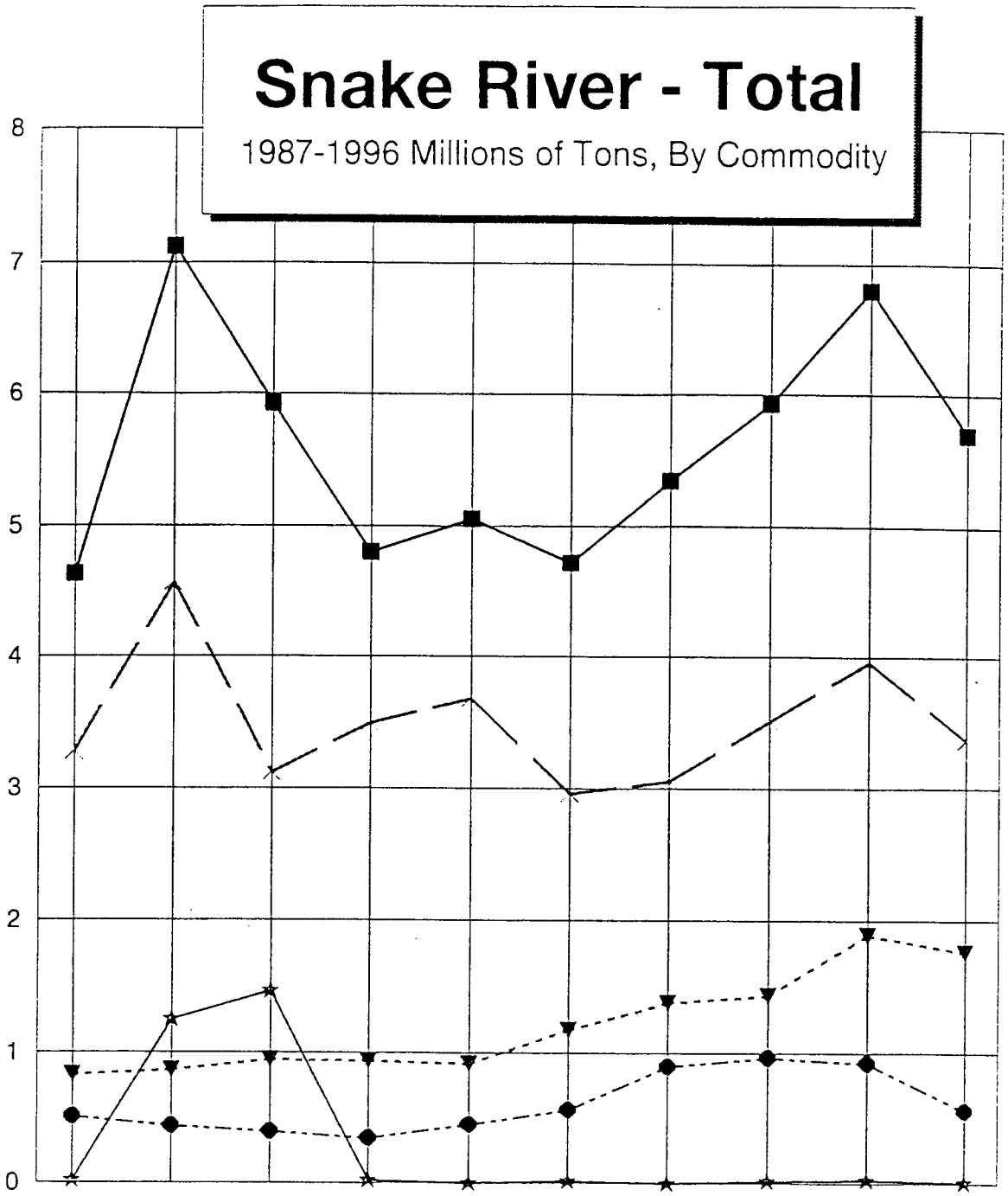
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	8.59	9.94	12.23	9.18	9.73	9.88	8.90	9.47	9.53	8.9
✕ Farm	4.01	5.12	4.23	5.10	5.59	4.80	5.03	5.81	5.99	5.8
● Wood	3.47	2.63	2.79	3.03	2.89	2.66	2.94	2.85	2.54	1.9
▼ Petro & Chem	0.81	0.59	0.89	0.94	1.20	0.94	0.61	0.59	0.61	0.7
★ Other	0.30	1.60	4.31	0.11	0.05	1.48	0.32	0.23	0.39	0.4

Domestic Tonnage



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	9.35	8.00	8.21	8.47	7.66	7.55	8.60	9.15	8.09	9.5
▼ Petro	4.06	3.37	3.76	3.72	3.67	3.86	3.81	4.82	5.35	5.7
★ Other	0.93	1.14	0.96	2.44	1.79	1.57	2.37	1.92	0.61	2.3
● Wood	2.99	2.01	1.36	1.00	1.52	1.50	1.69	1.48	1.36	1.2
✕ Chemical	0.49	0.54	0.44	0.49	0.55	0.46	0.66	0.85	0.69	0.3
✕ Farm	0.88	0.93	1.69	0.82	0.13	0.15	0.08	0.07	0.08	0.0

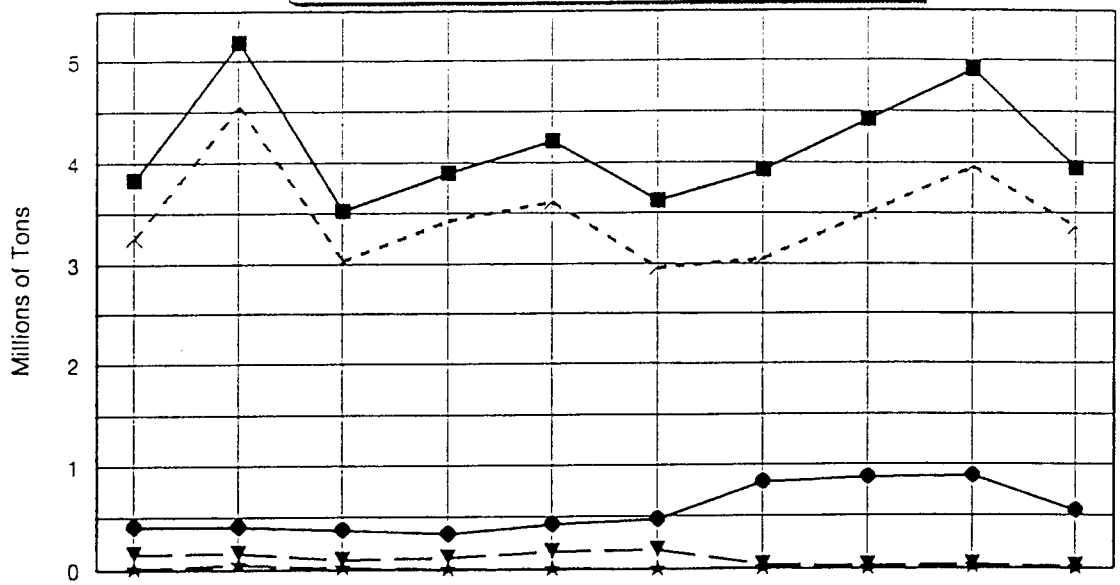
Domestic Tonnage



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■Total	4.63	7.13	5.92	4.80	5.05	4.72	5.34	5.93	6.80	5.7
⅄Farm	3.28	4.57	3.12	3.50	3.68	2.96	3.06	3.51	3.96	3.4
▼Petro & Chem	0.83	0.86	0.94	0.93	0.92	1.18	1.38	1.43	1.89	1.8
●Wood	0.51	0.44	0.39	0.35	0.45	0.56	0.90	0.96	0.92	0.6
★Other	0.02	1.25	1.47	0.03	0.01	0.02	0.00	0.02	0.03	0.0

Snake River - Downbound

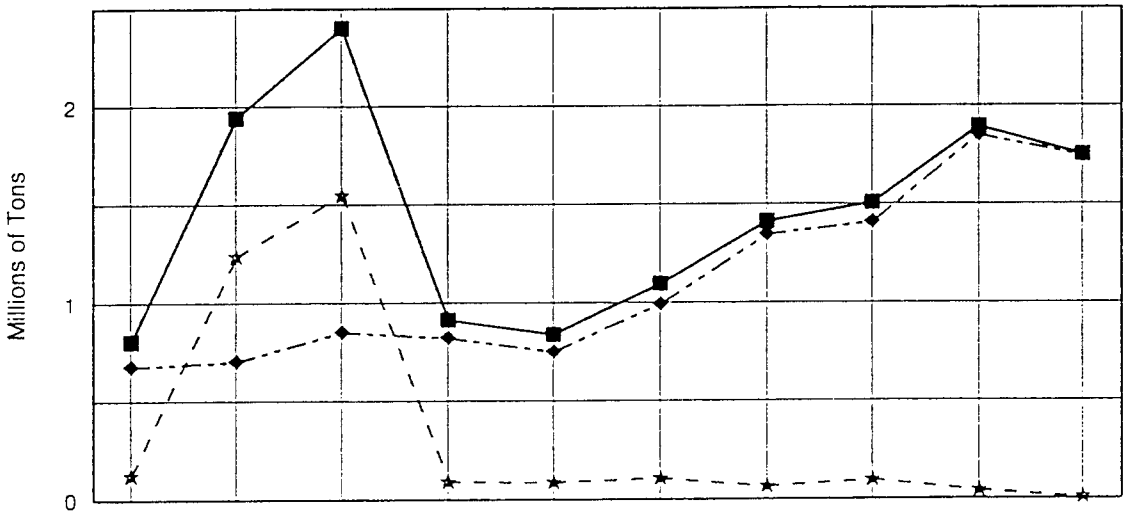
1987-1996 Millions of Tons, By Commodity



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	3.83	5.18	3.52	3.89	4.22	3.62	3.93	4.42	4.91	3.9
Farm	3.26	4.56	3.04	3.43	3.62	2.96	3.06	3.51	3.96	3.4
● Wood	0.41	0.41	0.38	0.34	0.43	0.48	0.84	0.88	0.89	0.6
▼ Petro & Chem	0.15	0.16	0.09	0.11	0.17	0.18	0.03	0.03	0.04	0.0
★ Other	0.01	0.05	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.0

Snake River - Upbound

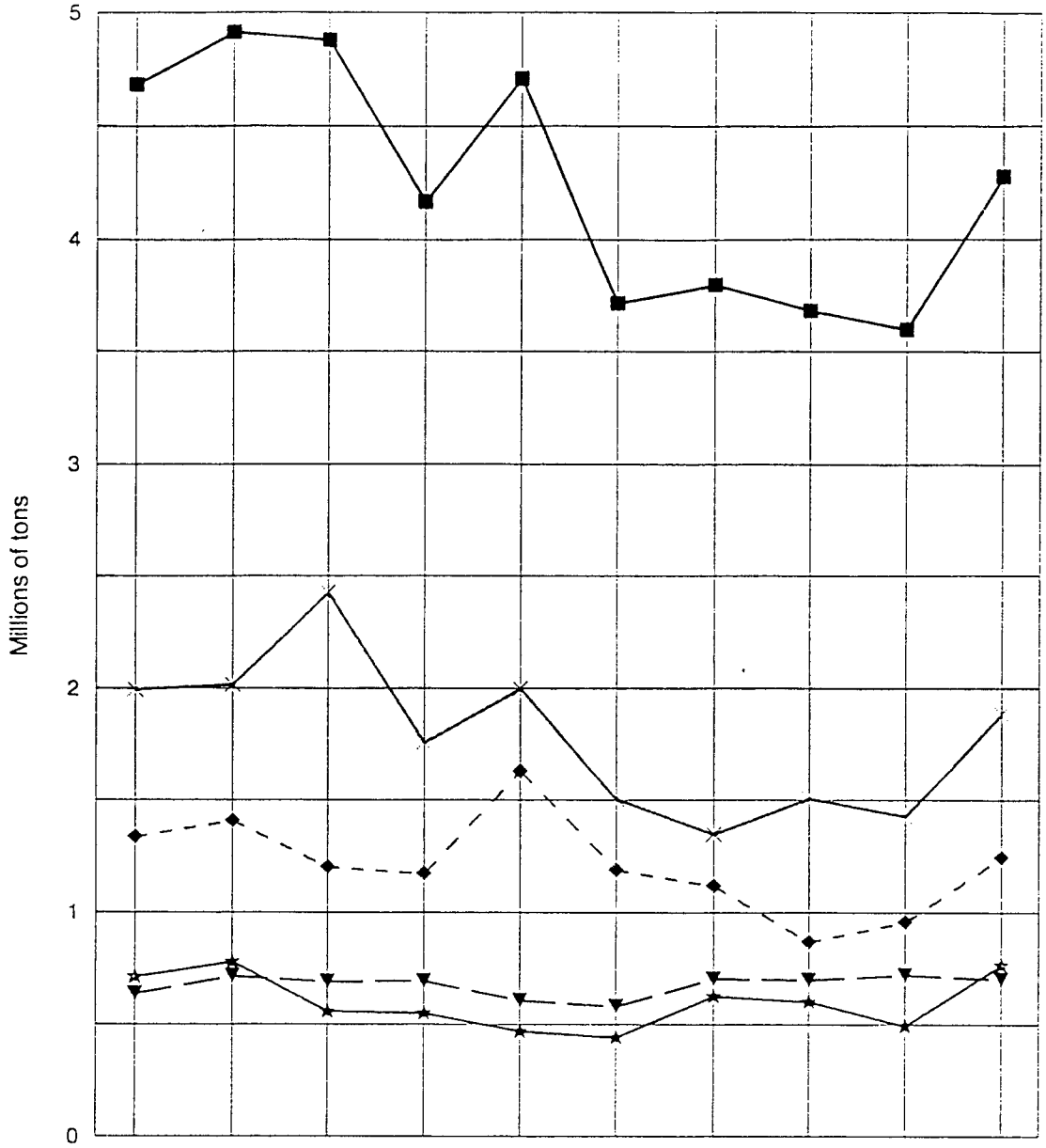
1987-1996 Millions of Tons, By Commodity



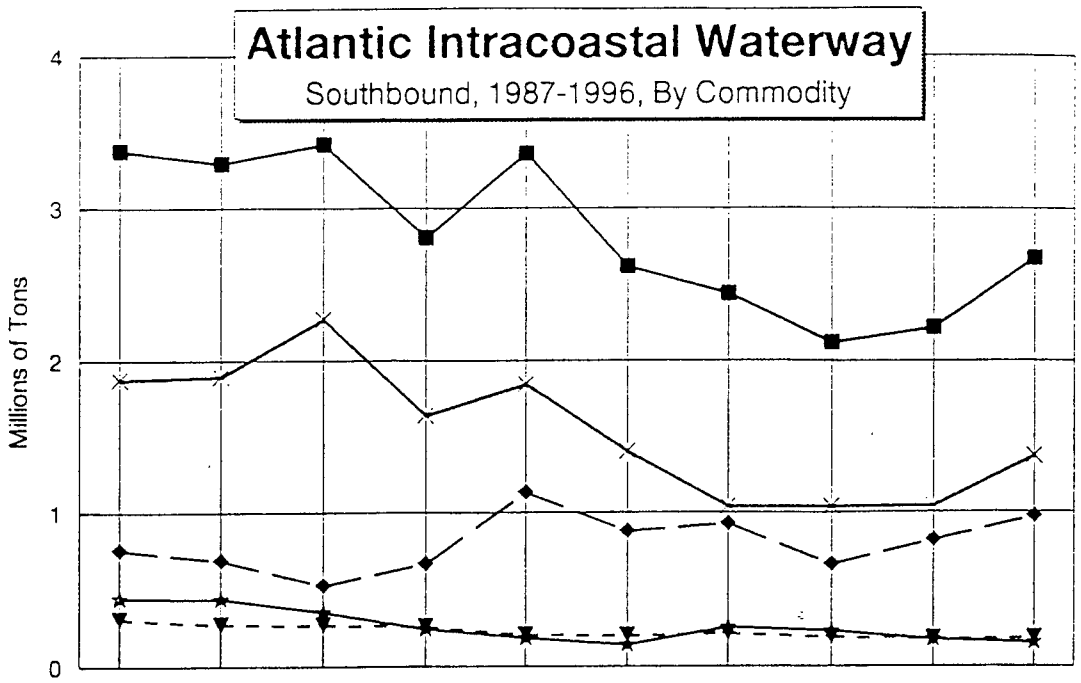
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	0.80	1.94	2.40	0.91	0.84	1.10	1.41	1.51	1.89	1.8
◆ Petro & Chem	0.68	0.70	0.85	0.82	0.75	0.99	1.35	1.41	1.85	1.7
★ Other	0.12	1.24	1.55	0.09	0.09	0.11	0.07	0.10	0.04	0.0

Atlantic Intracoastal Waterway

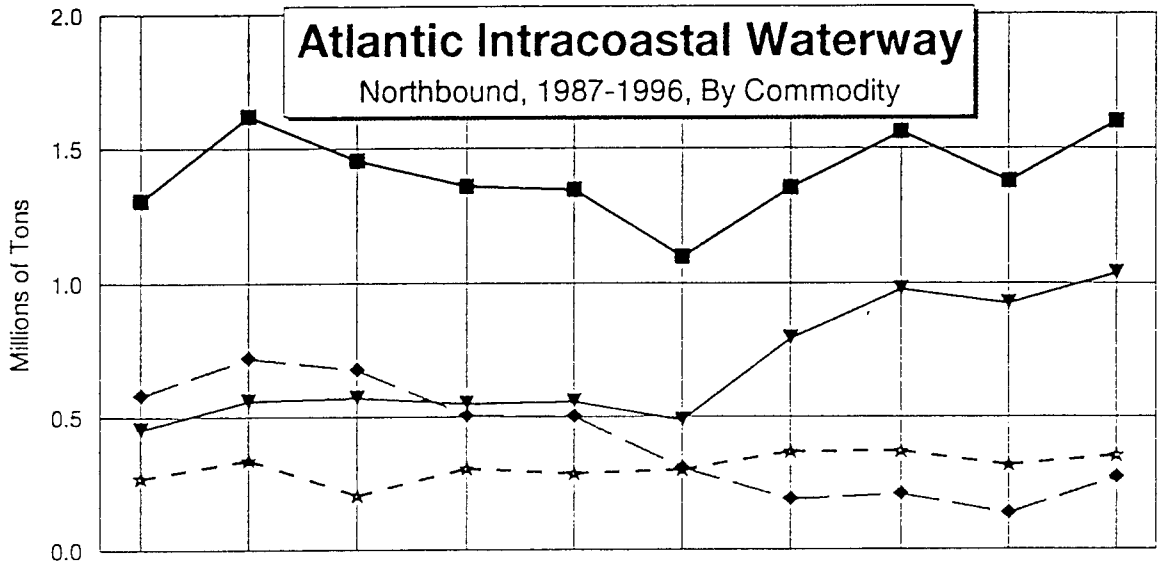
Total, 1987-1996, Millions of Tons, By Commodity



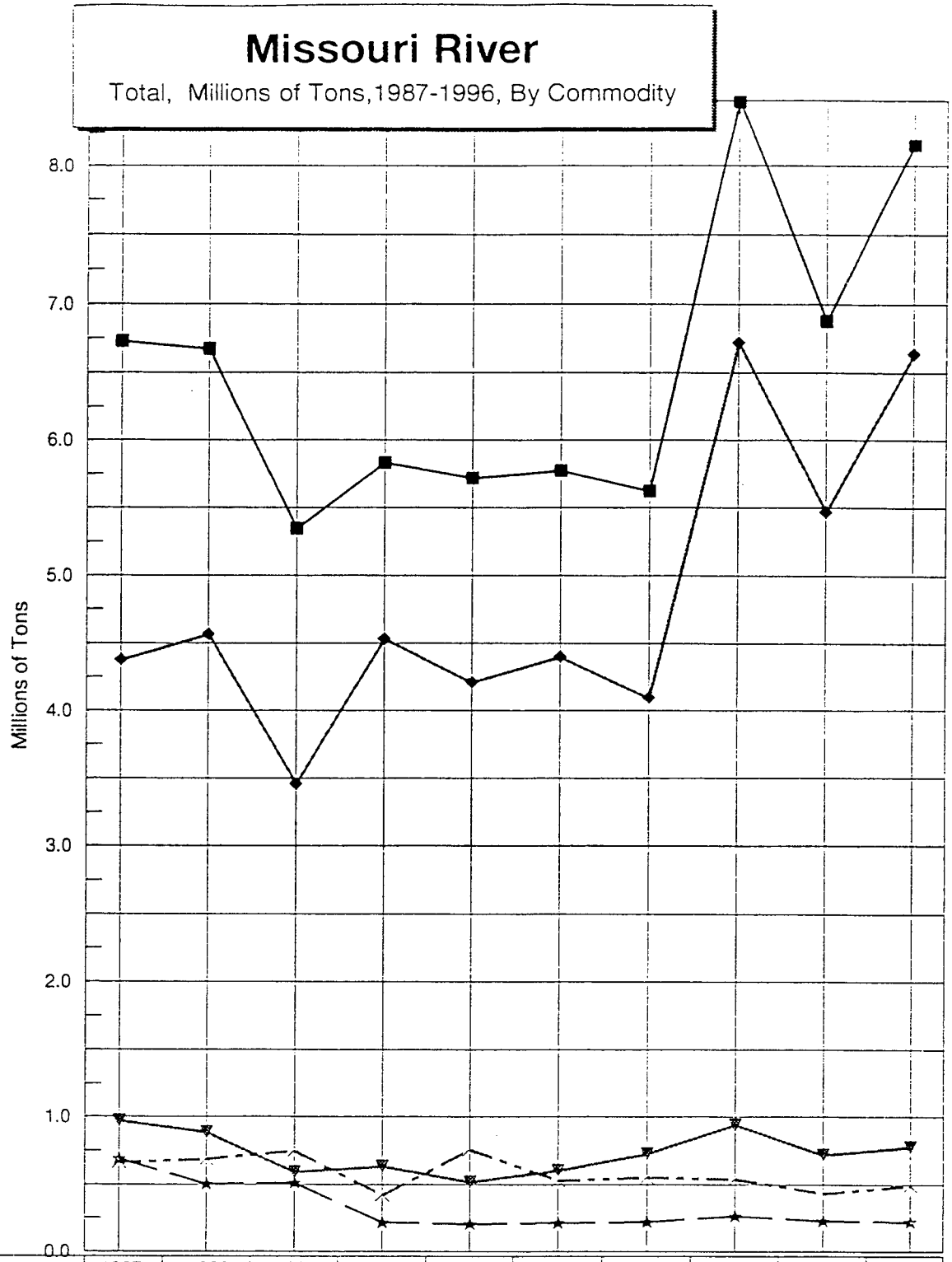
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	4.68	4.91	4.88	4.17	4.71	3.71	3.79	3.68	3.60	4.3
× Chemical	1.99	2.02	2.42	1.76	2.00	1.50	1.35	1.51	1.42	1.9
◆ Nonmetal	1.34	1.41	1.20	1.17	1.63	1.19	1.12	0.87	0.96	1.2
▼ Petro	0.64	0.71	0.69	0.69	0.61	0.58	0.70	0.70	0.72	0.7
☆ Other	0.71	0.78	0.56	0.55	0.47	0.44	0.63	0.60	0.50	0.8



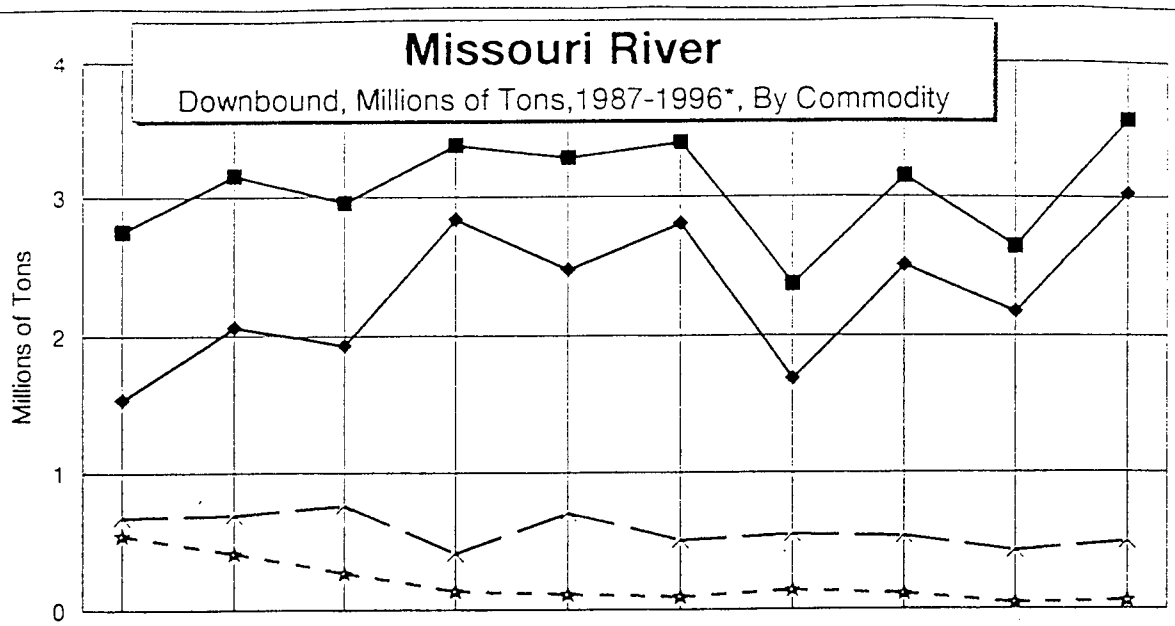
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	3.38	3.30	3.42	2.81	3.36	2.62	2.44	2.12	2.22	2.7
✕ Chemical	1.87	1.89	2.27	1.63	1.84	1.39	1.04	1.04	1.04	1.4
◆ Nonmetal	0.75	0.69	0.52	0.67	1.13	0.88	0.93	0.66	0.82	1.0
▼ Petro	0.31	0.27	0.27	0.26	0.21	0.20	0.22	0.19	0.18	0.2
★ Other	0.44	0.44	0.35	0.24	0.19	0.14	0.26	0.23	0.18	0.2



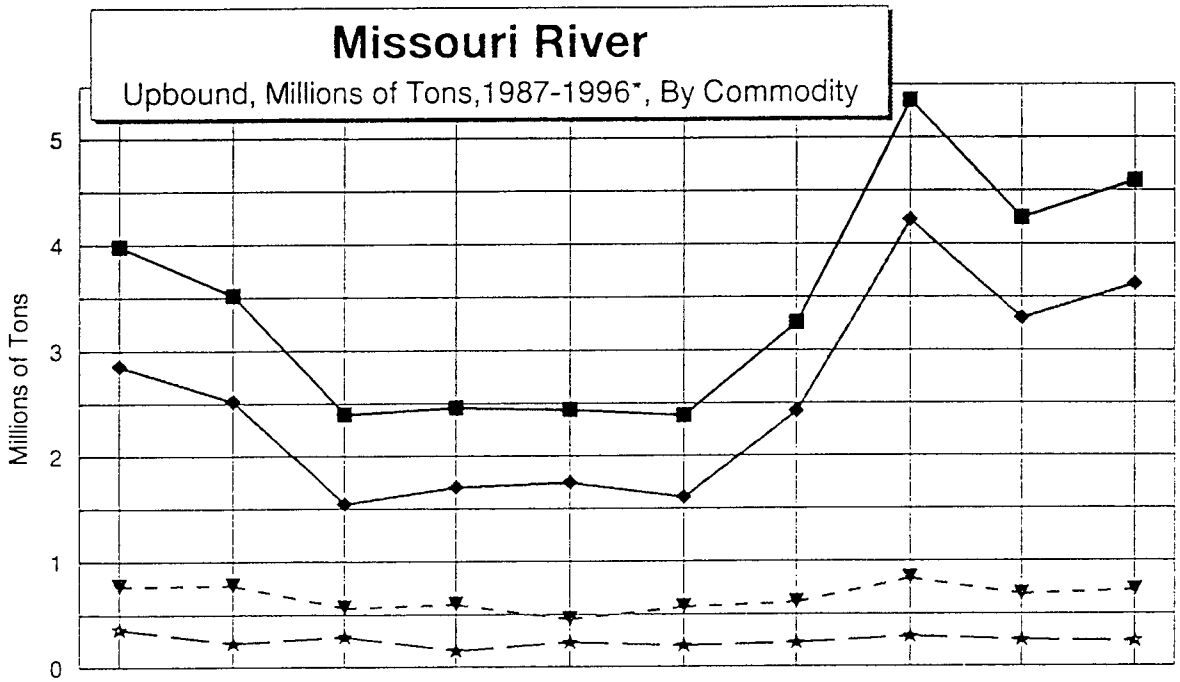
Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	1.31	1.62	1.46	1.36	1.35	1.10	1.35	1.56	1.38	1.6
▼ Petro & Chem	0.45	0.56	0.57	0.55	0.56	0.49	0.79	0.98	0.92	1.0
★ Other	0.27	0.34	0.21	0.31	0.29	0.30	0.37	0.37	0.32	0.4
◆ Nonmetal	0.58	0.72	0.68	0.50	0.50	0.31	0.19	0.21	0.14	0.3



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	6.74	6.68	5.35	5.84	5.73	5.78	5.63	8.50	6.88	8.17
◆ Nonmetal	4.38	4.58	3.47	4.54	4.22	4.41	4.10	6.73	5.47	6.65
▼ Petro & Chem	0.98	0.90	0.60	0.65	0.53	0.61	0.74	0.95	0.73	0.79
^ Farm	0.68	0.70	0.76	0.43	0.77	0.54	0.56	0.55	0.44	0.50
★ Other	0.70	0.51	0.52	0.22	0.21	0.22	0.23	0.27	0.24	0.23



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	2.75	3.16	2.96	3.38	3.29	3.40	2.37	3.15	2.64	3.57
◆ Nonmetal	1.53	2.06	1.93	2.84	2.47	2.80	1.68	2.51	2.17	3.02
⅄ Farm	0.68	0.69	0.76	0.41	0.70	0.50	0.55	0.53	0.42	0.49
★ Other	0.54	0.41	0.27	0.14	0.11	0.09	0.14	0.11	0.05	0.06



Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
■ Total	3.98	3.52	2.40	2.46	2.44	2.38	3.26	5.35	4.24	4.59
◆ Nonmetal	2.85	2.52	1.54	1.70	1.75	1.60	2.42	4.22	3.30	3.63
▼ Petro & Chem	0.77	0.78	0.56	0.60	0.46	0.57	0.61	0.84	0.68	0.72
★ Other	0.36	0.23	0.29	0.16	0.24	0.20	0.23	0.29	0.26	0.24

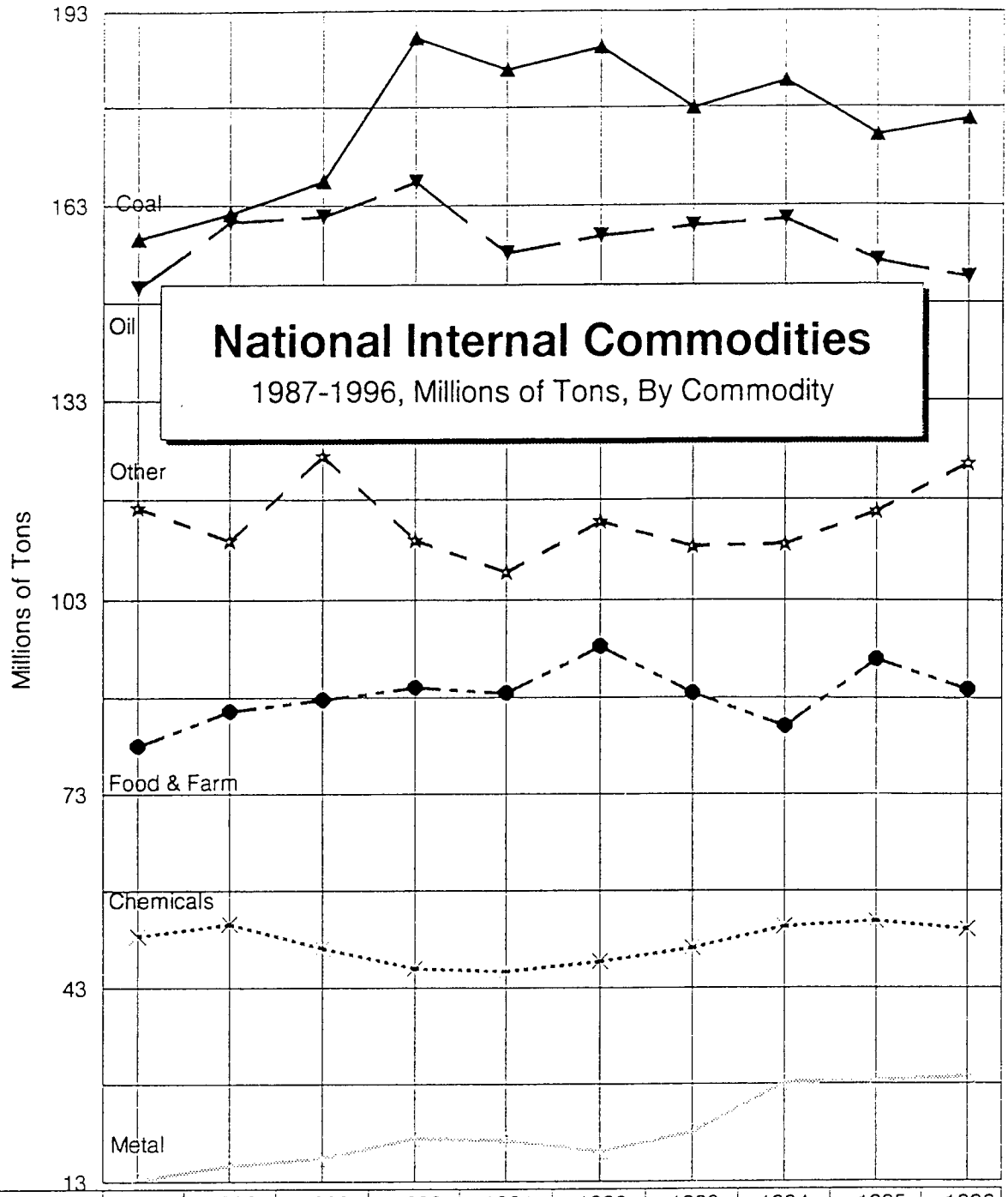
INTERNAL U.S.WATERWAYS TONNAGE COMPARISONS: 1996* vs 1995

(Millions of Tons)

	95	96	Percent Change
National Domestic Totals	1093.0	1100.6	0.7
National Lakewise Totals	116.1	114.8	-1.1
National Coastwise Totals	266.6	267.4	0.3
National Internal Totals:			
All Commodities	620.3	621.9	0.3
Food and Farm	94.0	89.3	-5.0
Coal	173.7	176.2	1.4
Chemicals	53.3	52.1	-2.3
Petroleum	154.5	151.8	-1.8
Metal	28.6	29.2	2.0
Other	116.2	123.3	6.1

Waterways			
Alabama-Coosa River	0.8	0.7	-10.0
Allegheny River	3.36	3.3	-0.7
Apalachicola River	0.6	0.6	-3.6
Atlantic Intracoastal	3.6	4.3	18.8
Black Warrior River	24.7	25.2	2.2
Columbia River**	17.6	18.3	4.0
Cumberland River	17.8	17.2	-3.8
Gulf Intracoastal**	118.0	118.0	0.1
Illinois Waterway	47.4	46.2	-2.5
Kanawha River	23.1	24.8	7.5
McClellan-Kerr Wtwy	10.3	10.6	2.0
Mississippi River**	323.0	318.5	-1.4
Missouri River	6.9	8.2	18.6
Monongahela River	34.4	36.6	6.2
Ohio River	234.1	236.8	1.2
Snake River	6.8	5.7	-16.1
Tennessee River	46.4	45.5	-1.9
Tennessee Tombigbee	8.1	8.0	-1.5

*Oct 24, 1997 **Includes domestic coastwise tonnage.
From 1996, non-coastwise fish are no longer counted. This reduced internal by .3% and Food by 2%. Rounding may cause slight discrepancies in the data.
Internal: Moved solely within the boundaries of the U. S.

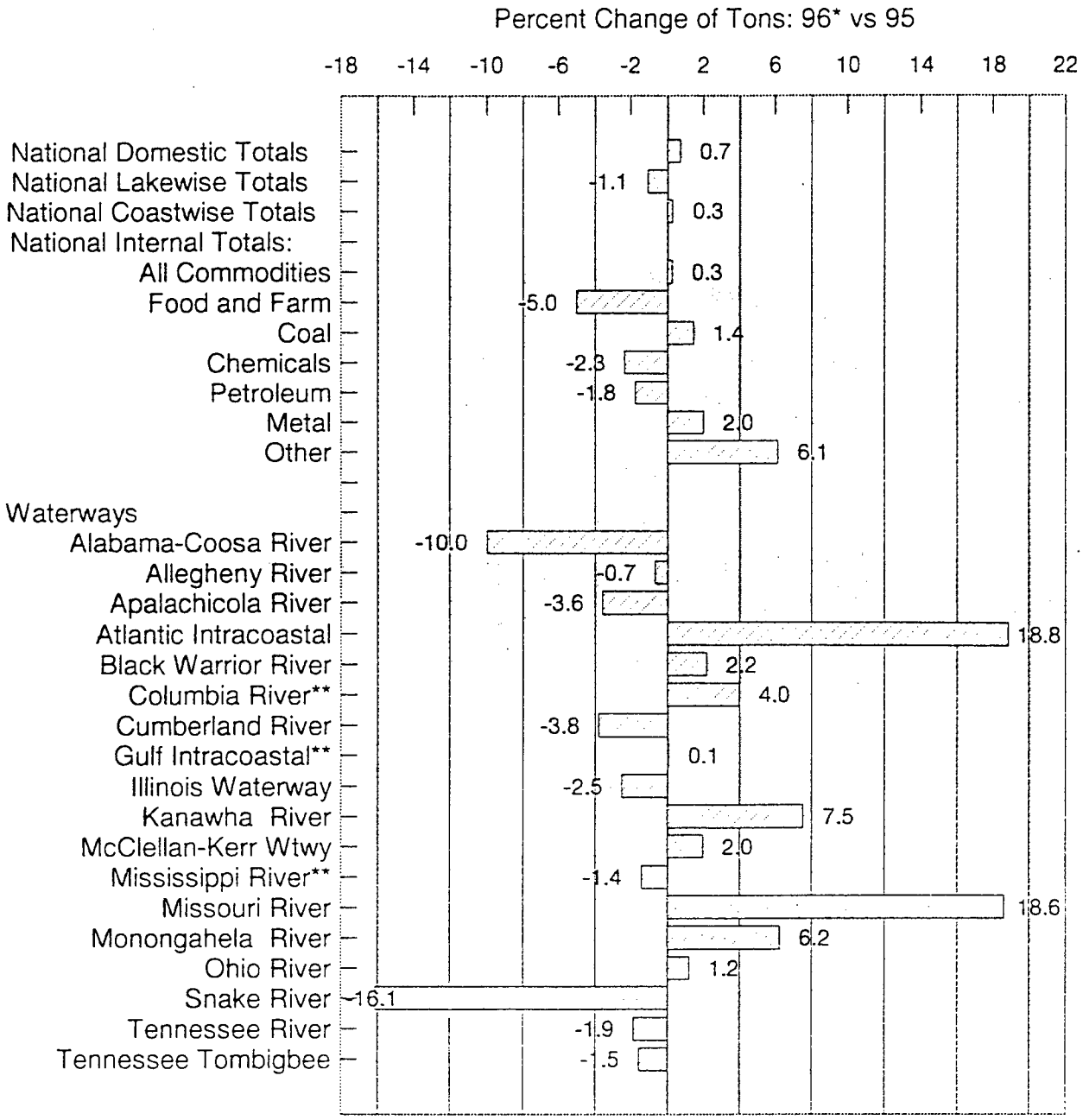


Year	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
▲Coal	157.87	161.69	166.76	188.82	183.97	187.42	177.96	182.15	173.72	176.22
▼Oil & Oil Products	150.32	160.39	161.27	166.58	155.66	158.34	159.83	160.79	154.50	151.78
★Other	116.80	111.82	124.55	111.95	107.22	114.73	110.99	111.32	116.20	123.32
●Food & Farm	80.50	85.84	87.65	89.49	88.65	95.80	88.68	83.51	93.99	89.28
⧵Chemicals	51.00	52.89	49.15	46.00	45.55	47.07	49.18	52.47	53.33	52.09
Metal	13.36	15.49	16.63	19.75	19.33	17.69	20.62	28.16	28.59	29.16

*Preliminary October 1997

INTERNAL U. S. WATERWAYS

TONNAGE COMPARISONS: 1996* vs 1995



*October 24, 1997 **Includes domestic coastwise tonnage.
Internal: Moved solely within the boundaries of the U. S.

Appendix A

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 1996 (changes are underlined)

Coal: Coal and <u>coke</u>

Petroleum: Crude petroleum and petroleum products (<u>no longer includes coke</u>)

Chemicals On page 40 (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, <u>clay, and slag</u>

Farm: Farm products, flour, fibers, unprocessed and <u>processed foods, fish, and tobacco</u>

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.

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