

2003 National Listing of Fish Advisories

U.S. Environmental Protection Agency

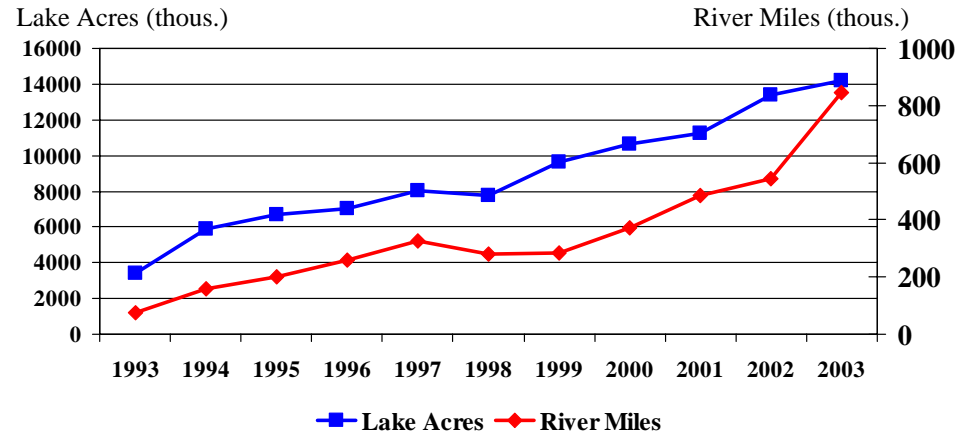
August 24, 2004

Background

- One-stop reference
- 12th annual national summary
- Monitoring = Advisories
- Fish advisories are voluntary – states differ
- Focused on recreational fishing, not commercial fishing

Summary

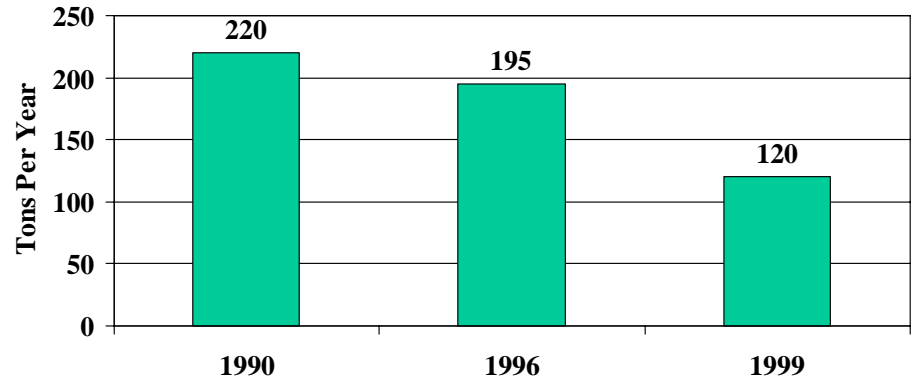
U.S. Fish Advisories



- Monitoring is up and will continue up.

- Emissions are down.

U.S. Emissions of Human-Caused Mercury



- Emissions will continue to go down.

Guiding Principles: Regulating Emissions from Coal-Fired Power Plants

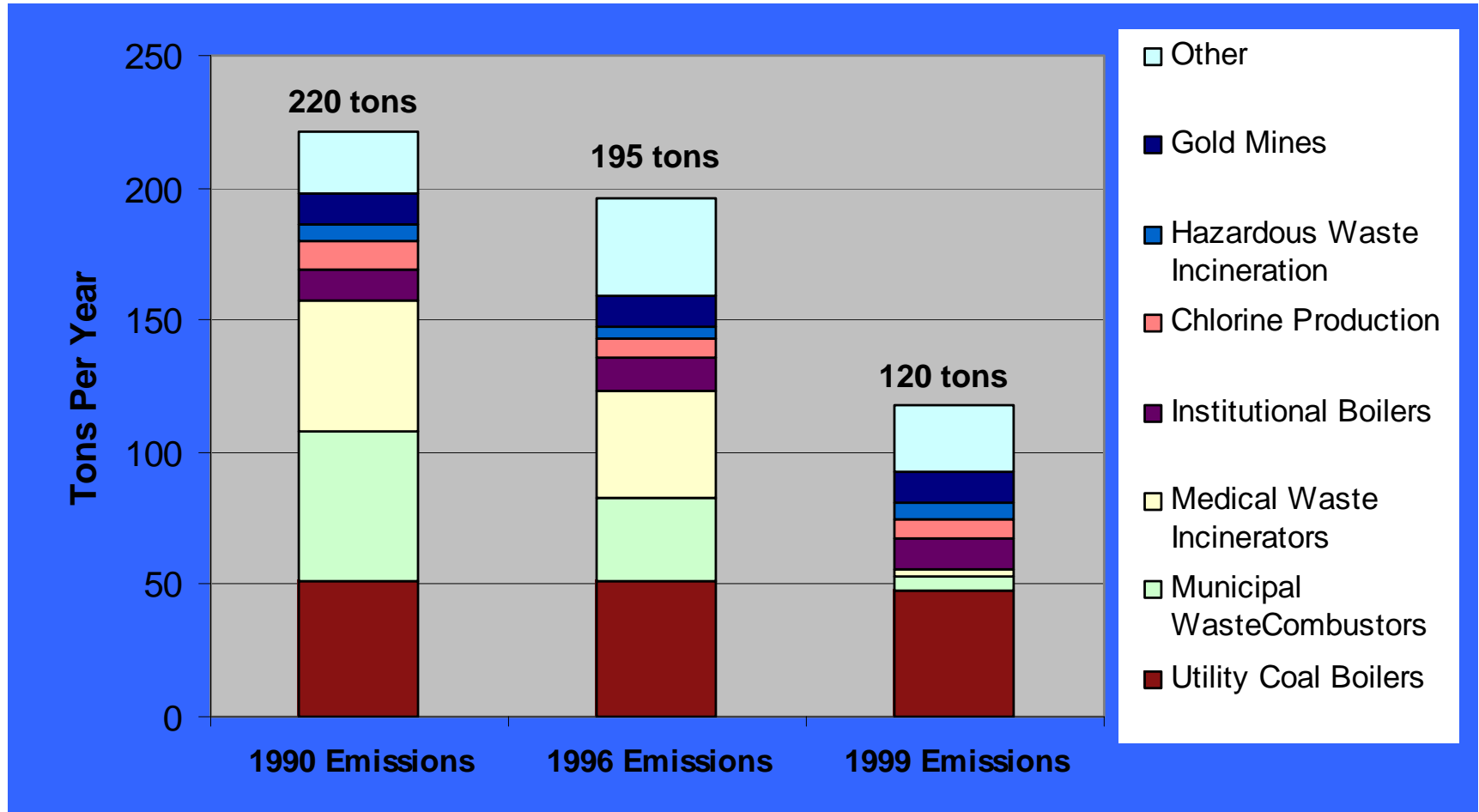
1. Concentrate on the need to protect children and pregnant women.
2. Stimulate and encourage early adopters of new technology.
3. Significantly reduce total emissions by leveraging the \$50 billion investment of CAIR.
4. Consider the need to maintain America's economic competitiveness.
5. Be one component of our overall effort to reduce mercury emissions worldwide.

Major Bioaccumulative Pollutants

98% of all fish advisories involve five contaminants:

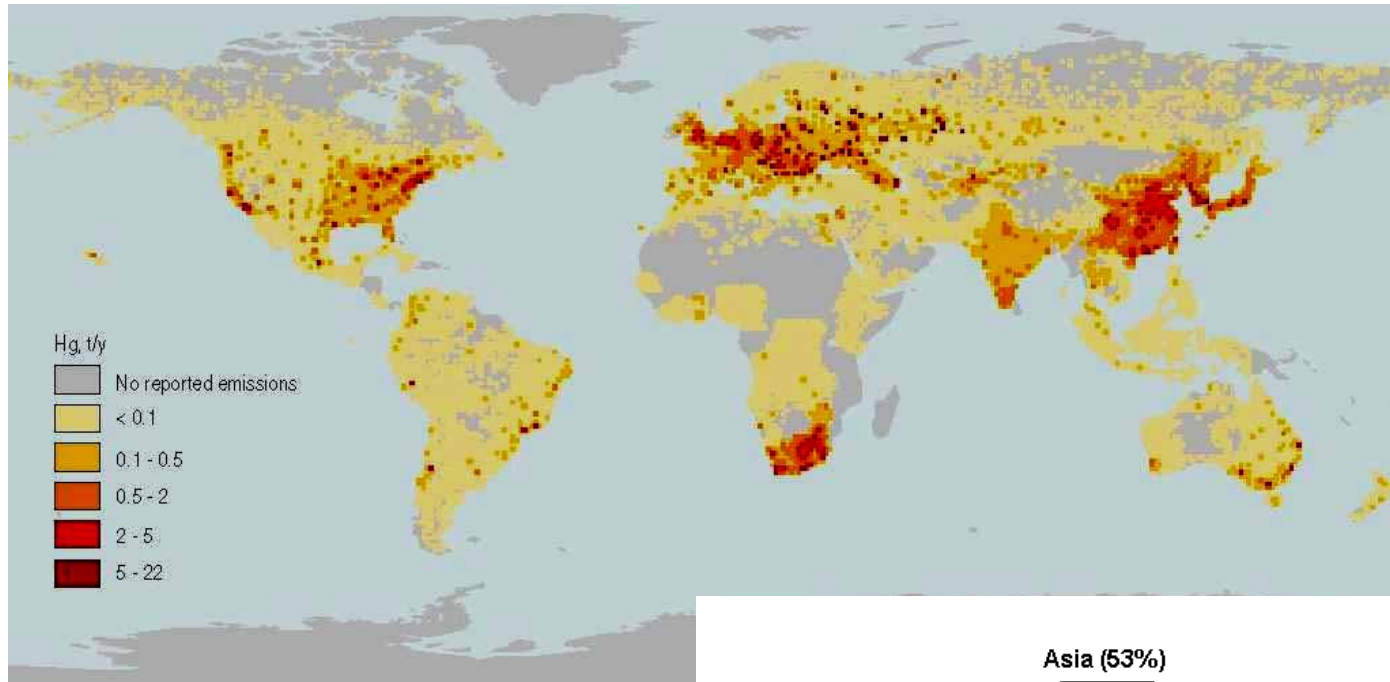
- **PCBs** – Large-scale production ceased in 1977 under the Toxic Substances Control Act.
- **Chlordane** – Banned for use in the United States in 1988.
- **DDT**– Banned since 1972.
- **Dioxins** – 77% reduction from 1987 to 1995. In January 2003 EPA published a proposed rule to further limit emissions from small municipal waste combustion units.
- **Mercury** – 45% reduction since 1990. EPA on schedule to regulate emissions from coal-fired power plants by March 15, 2005.

U.S. Emissions of Human-Caused Mercury Have Dropped 45% Since 1990

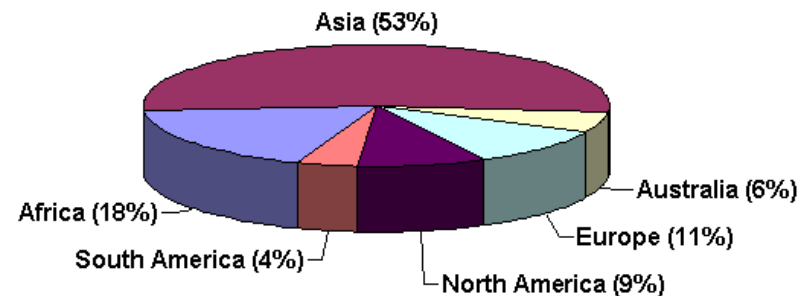


Source: EPA 1990, 1996 NTI and EPA 1999 NEI. Short tons per year. Adjusted for gold mines in 1990 and 1996.

Global Human-Caused Mercury Emissions



Source: UNEP Global Mercury Assessment, 2002, using J. Pacyna 1995 data, as presented by AMAP (1998).



Based on Pacyna, J., Munthe J., Presentation at Workshop on Mercury: Brussels, March 29-30, 2004

Guiding Principles

Nation's First-Ever Regulation of Emissions from Coal-Fired Power Plants

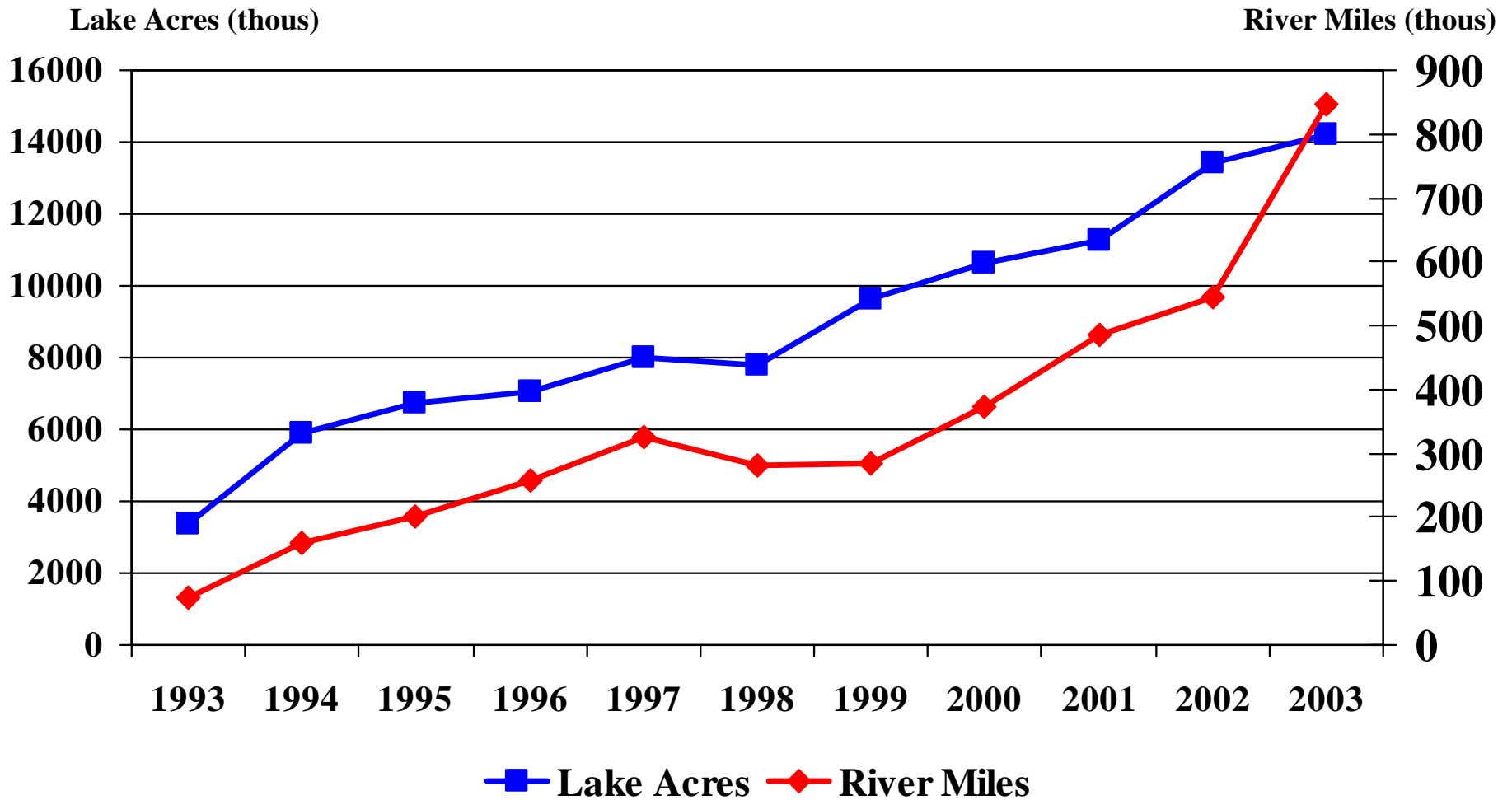
The final rule will adhere to these principles:

1. Concentrate on the need to protect children and pregnant women.
2. Stimulate and encourage early adopters of new technology that can be adequately tested and widely distributed across the full fleet of U.S. power plants and coal types.
3. Significantly reduce total emissions by leveraging the \$50 billion investment that the Clean Air Interstate Rule will require.
4. Consider the need to maintain America's competitiveness.
5. Will be one component of our overall effort to reduce mercury emissions.

National Trends

Year	Percent National River Miles Under Advisory	Percent National Lake Acres Under Advisory	National Number of River Miles Under Advisory	National Number of Lake Acres Under Advisory
1993	2%	8%	74,505	3,381,722
1994	5%	14%	160,091	5,905,421
1995	6%	16%	200,832	6,714,645
1996	7%	17%	258,139	7,059,659
1997	9%	20%	327,424	8,001,140
1998	8%	19%	281,163	7,780,275
1999	8%	24%	282,645	9,654,240
2000	10%	26%	371,766	10,628,888
2001	14%	28%	485,205	11,277,276
2002	15%	33%	544,036	13,413,763
2003	24%	35%	846,310	14,195,187

Lake Acres and River Miles Under a Fish Advisory



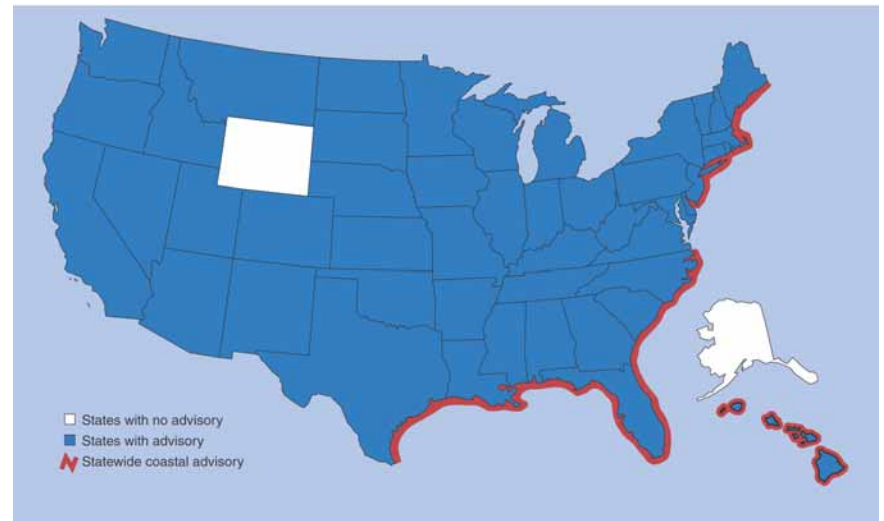
States with One or More Fish Advisories of Any Type

1993



1,233 Advisories

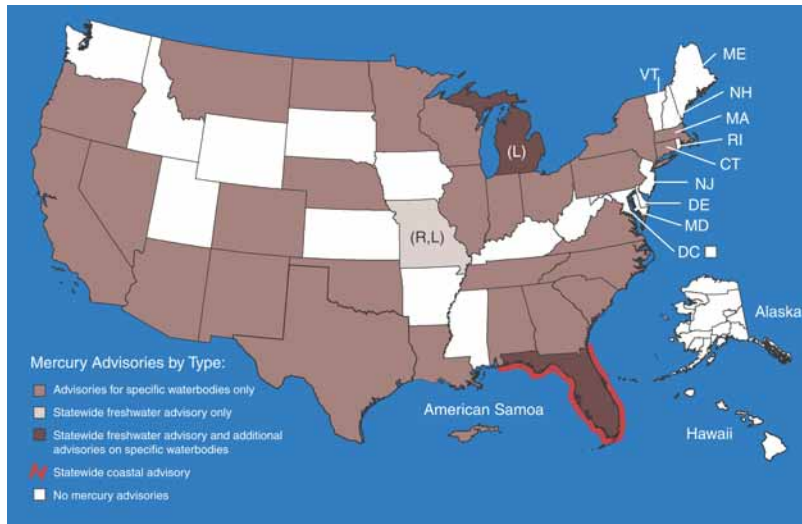
2003



3,094 Advisories

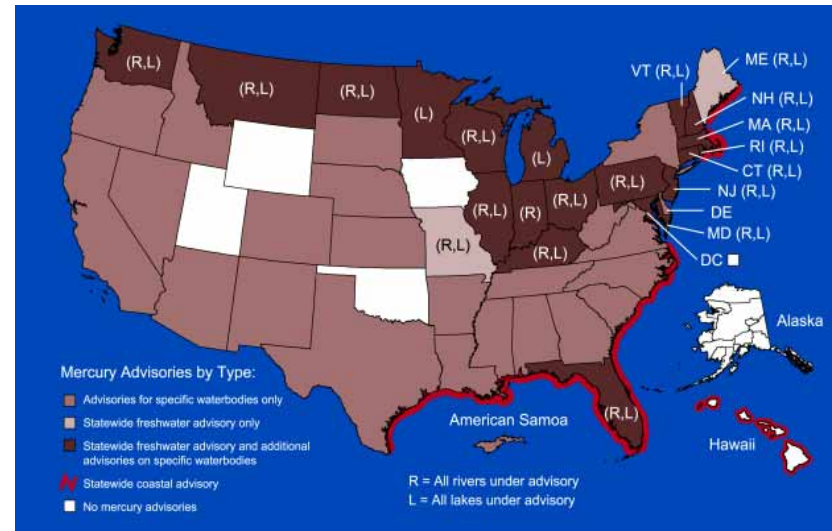
States with One or More Mercury Fish Advisories

1993



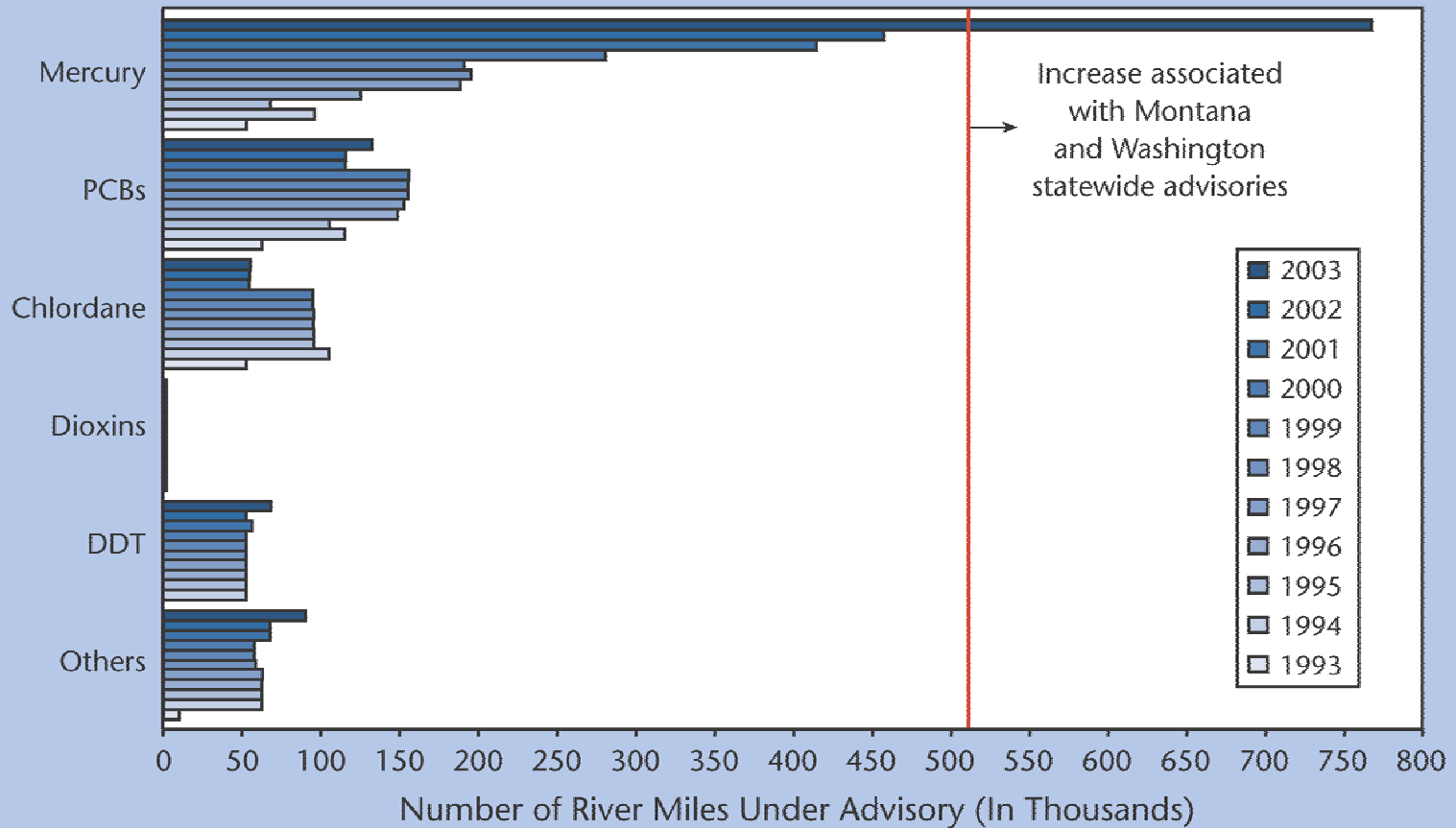
899 Advisories

2003

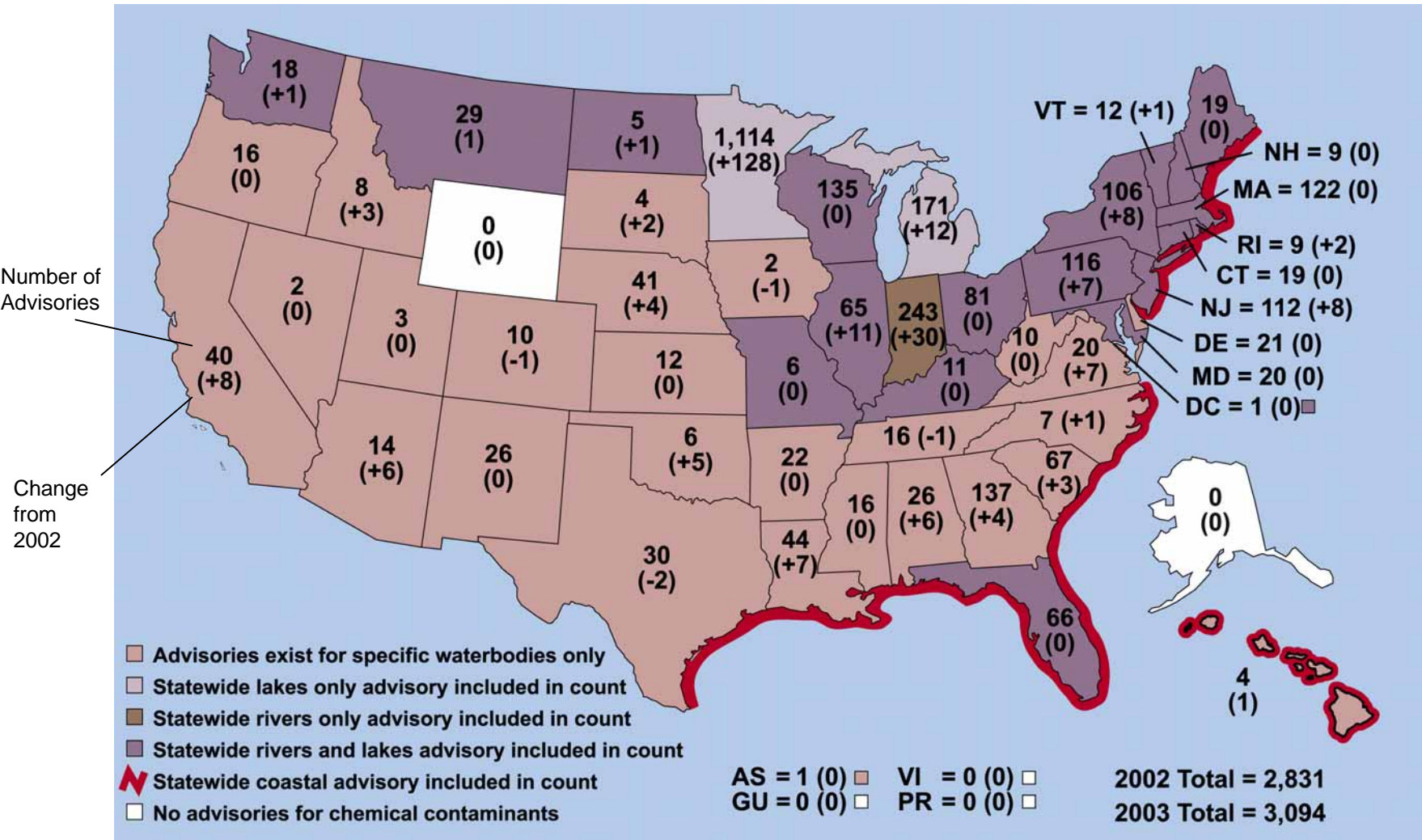


2,362 Advisories

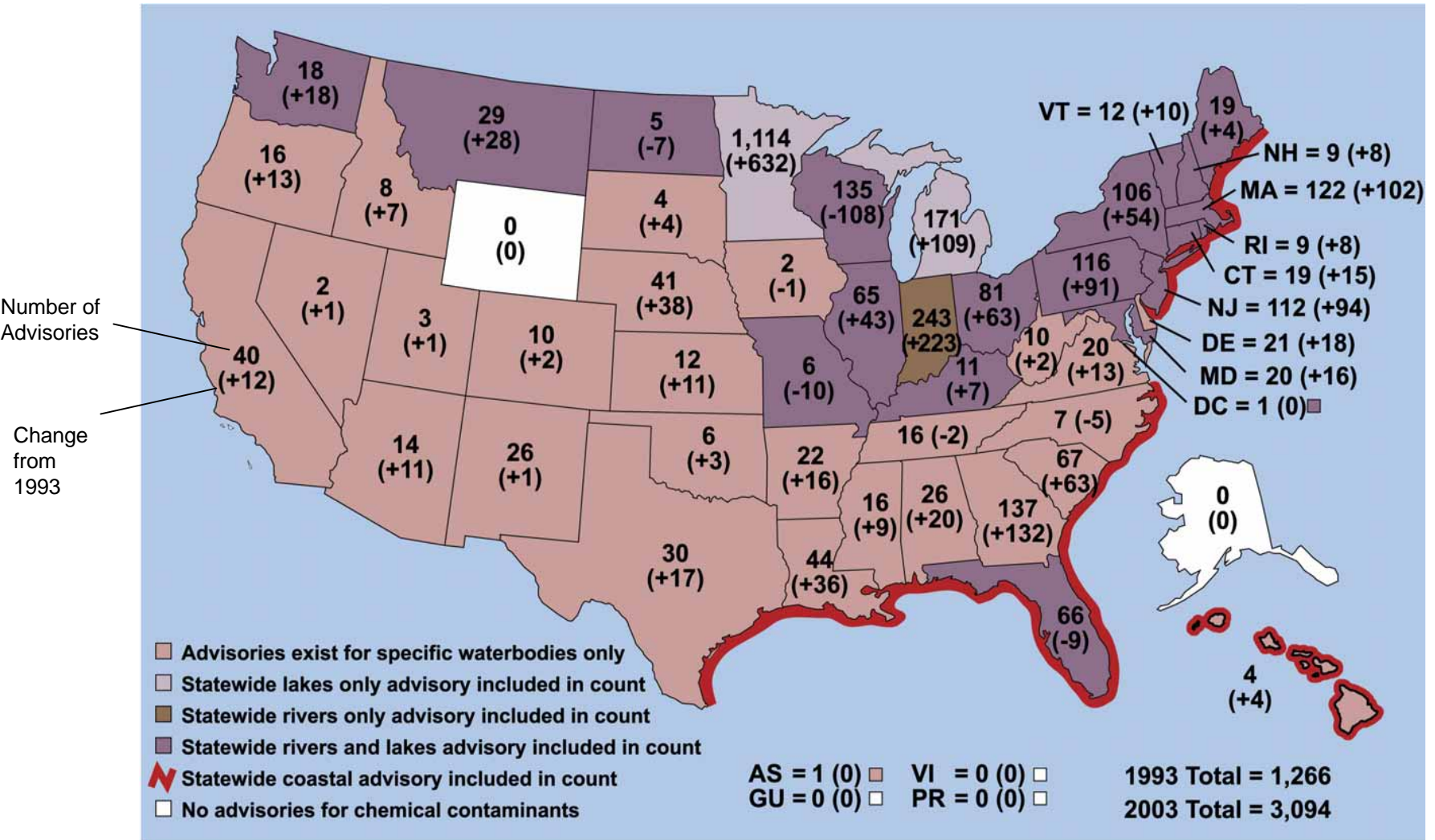
Number of River Miles Under Advisory



Number of Fish Consumption Advisories in 2003 and Change from 2002



Number of Fish Consumption Advisories in 2003 and Change from 1993



2003 National Listing of Fish Advisories Summary

- The 2003 National Listing of Fish Advisories database lists 3,094 advisories in 48 states, the District of Columbia, and the US Territory of American Samoa.
- The number of waterbodies under advisory represents:
 - 35% of the Nation's total lake acres, or approximately 101,818 lakes
 - 24% of the Nation's total river miles, or approximately 846,310 river miles
 - 75% of the Nation's contiguous coastal waters including 92% of the Atlantic coast, 100% of the Gulf coast, and 37% of the Pacific coast
 - 100% of the Great Lakes and their connecting waters.
- There were 31 states with statewide advisories in effect in 2003, including new statewide advisories for all rivers and lakes in Montana and Washington, and a coastal advisory in Hawaii.

Conclusion

- Monitoring is up.
- Emissions are down.
- Emissions will continue to go down.
- National Fish Advisory Listing is one of many fish-related actions EPA is taking to protect public health.
 - One-stop reference
 - Issued the first-ever joint FDA/EPA Fish Consumption Advisory
 - Decision phase regulate mercury emissions from coal-fired power plants
 - Provide guidance to States on risk assessment and monitoring
 - Sponsor the annual National Fish Forum