

NOAA National Status & Trends Program Mussel Watch Project

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NJ Water Monitoring Coordinating Council
Trenton, NJ
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NOAA National Status & Trends Program

Program Components

NOAA | National Ocean Service

Center for Coastal Monitoring & Assessment

Coastal & Oceanographic
Assessment, Status and Trends
J. Christensen

BioGeographic Assessment
Team

Remote Sensing

Harmful Algal Blooms

Eutrophication

Contaminant Monitoring - - - - -> Mussel Watch, Specimen Banking, QA

Biological Effects - - - - -> Sediment Toxicity, Ecological Indices,
Biomarkers, Emerging Contaminants

NOAA National Status & Trends Program

Mussel Watch Project

(Dr. Gunnar Lauenstein)



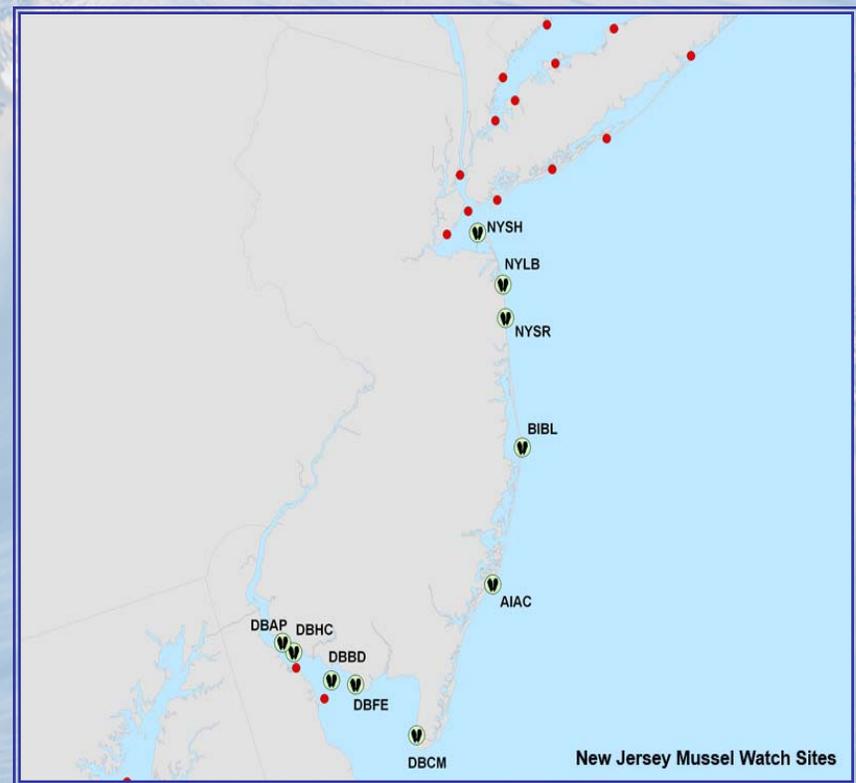
**280 Sites
nationwide
monitored
annually**

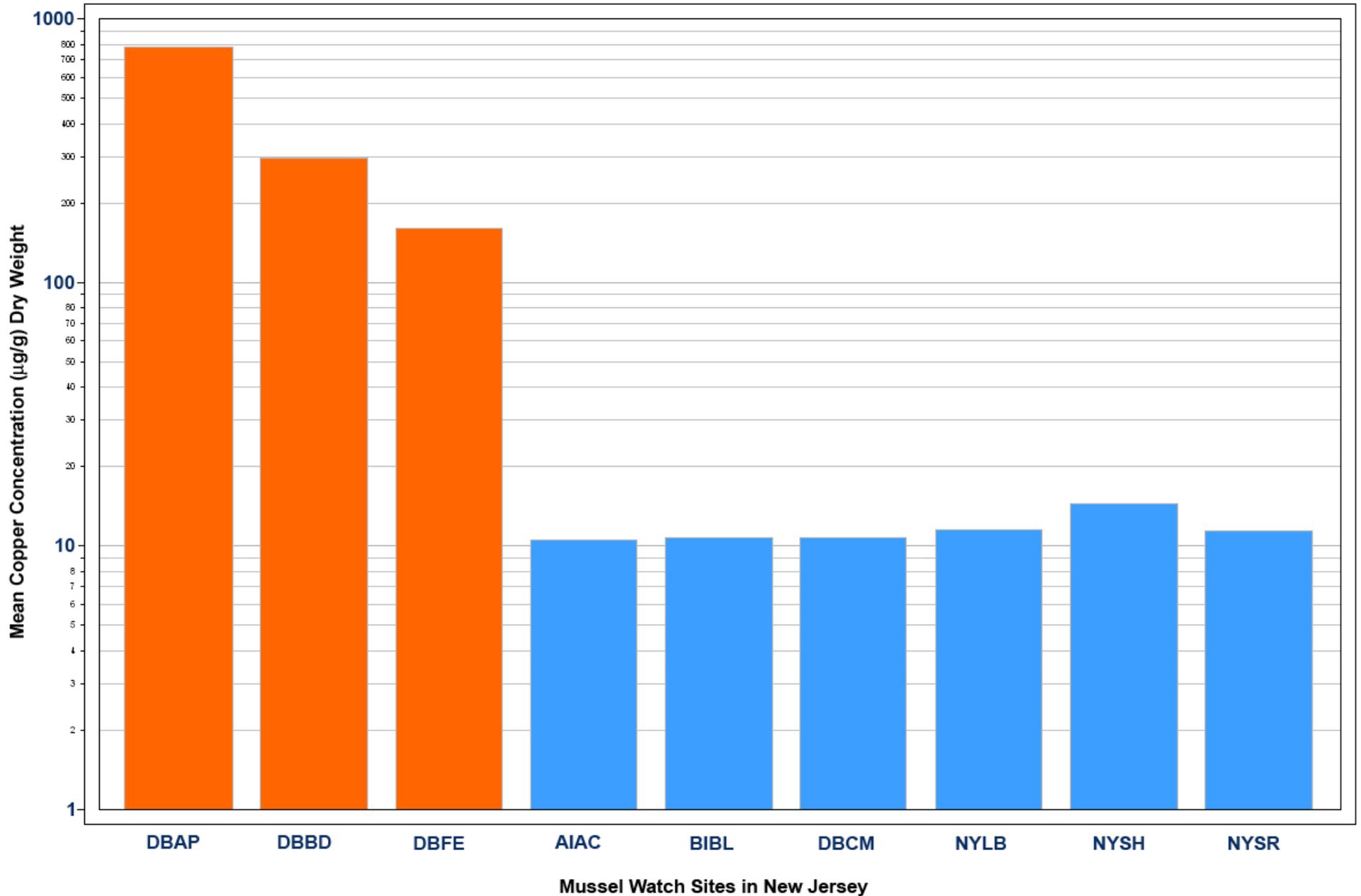
**120
contaminants
routinely
monitored**

**Nation's longest
running coastal
contaminant
monitoring
program
(21 years)**

MW Sites in New Jersey

1. NYSH - Sandy Hook
2. NYLB - Long Branch
3. NYSR - Shark River
4. BIBL - Barnegat Light
5. AIAC - Atlantic City
6. DBCM - Cape May
7. DBFE - False Egg Island Point
8. DBBD - Ben David Pt Shoal
9. DBHC - Hope Creek*
10. DBAP - Arnold Point





NOAA National Status & Trends Program

Data Management & Distribution (Dr. Ed Johnson)

The screenshot displays two web pages from the NOAA National Status & Trends Program. The left page is for 'Unakwit Inlet, Siwash Bay' and the right page is for 'Port Valdez, Mineral Creek Flats (PVMC)'. Both pages feature a 'Mussel Watch' header and interactive tools for 'Ranking' and 'Trends' analysis. The PVMC page also includes a 'Monitoring' section and a bar chart showing 'Total PAH Concentration (ng/g dry weight) in Tissue' from 1986 to 2006. The chart shows a peak in 1993 and a low in 2001.

Year	Average Concentration (ng/g)
1986	0
1987	0
1988	0
1989	0
1990	140
1991	270
1992	210
1993	300
1994	160
1995	160
1996	130
1997	130
1998	180
1999	180
2000	50
2001	50
2002	0
2003	0
2004	0
2005	0
2006	0

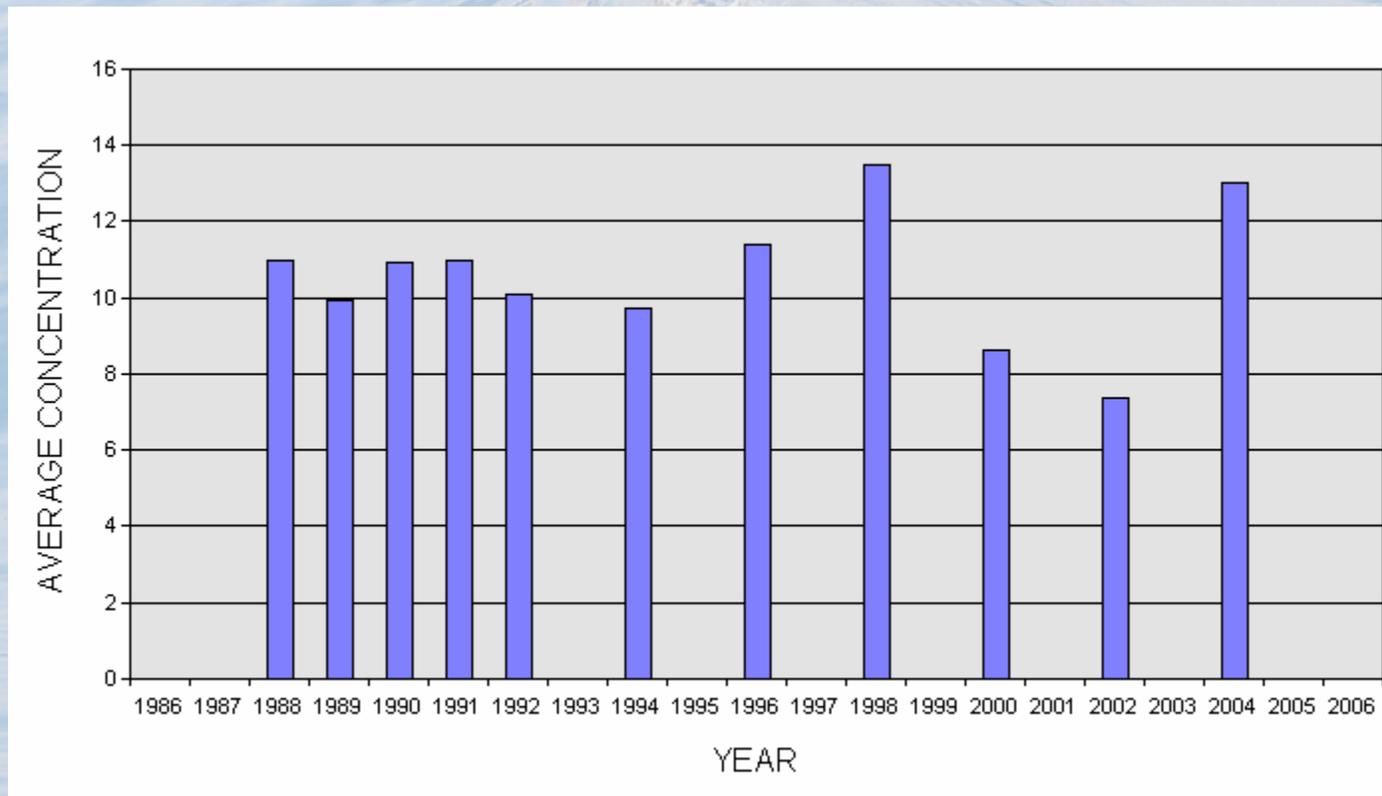
Web-enabled database

Map query to select data

Site description tool to learn more about the location sampled

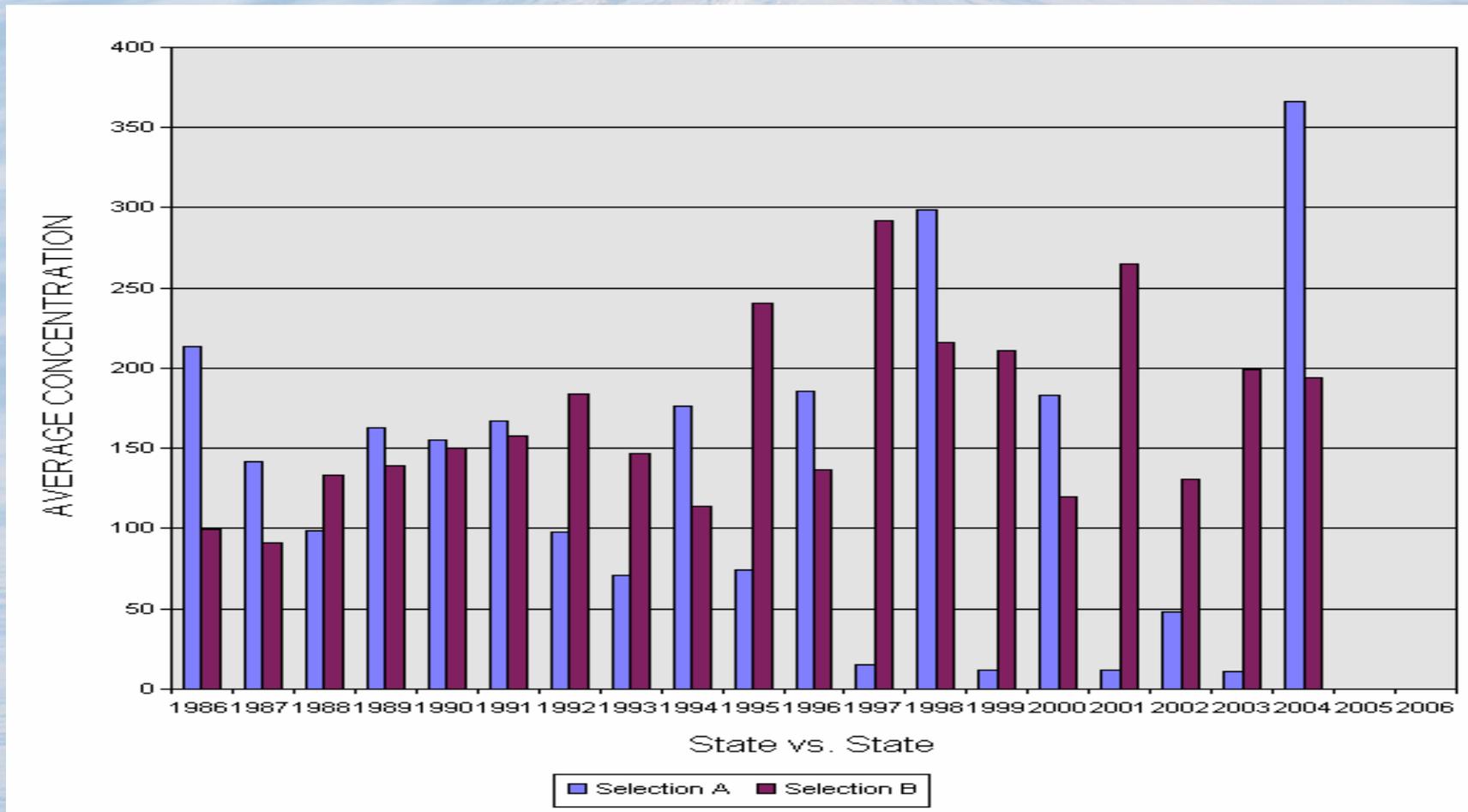
Data plotting and analysis tools to compare sites and evaluate trends

Cu in mussels -- NJ



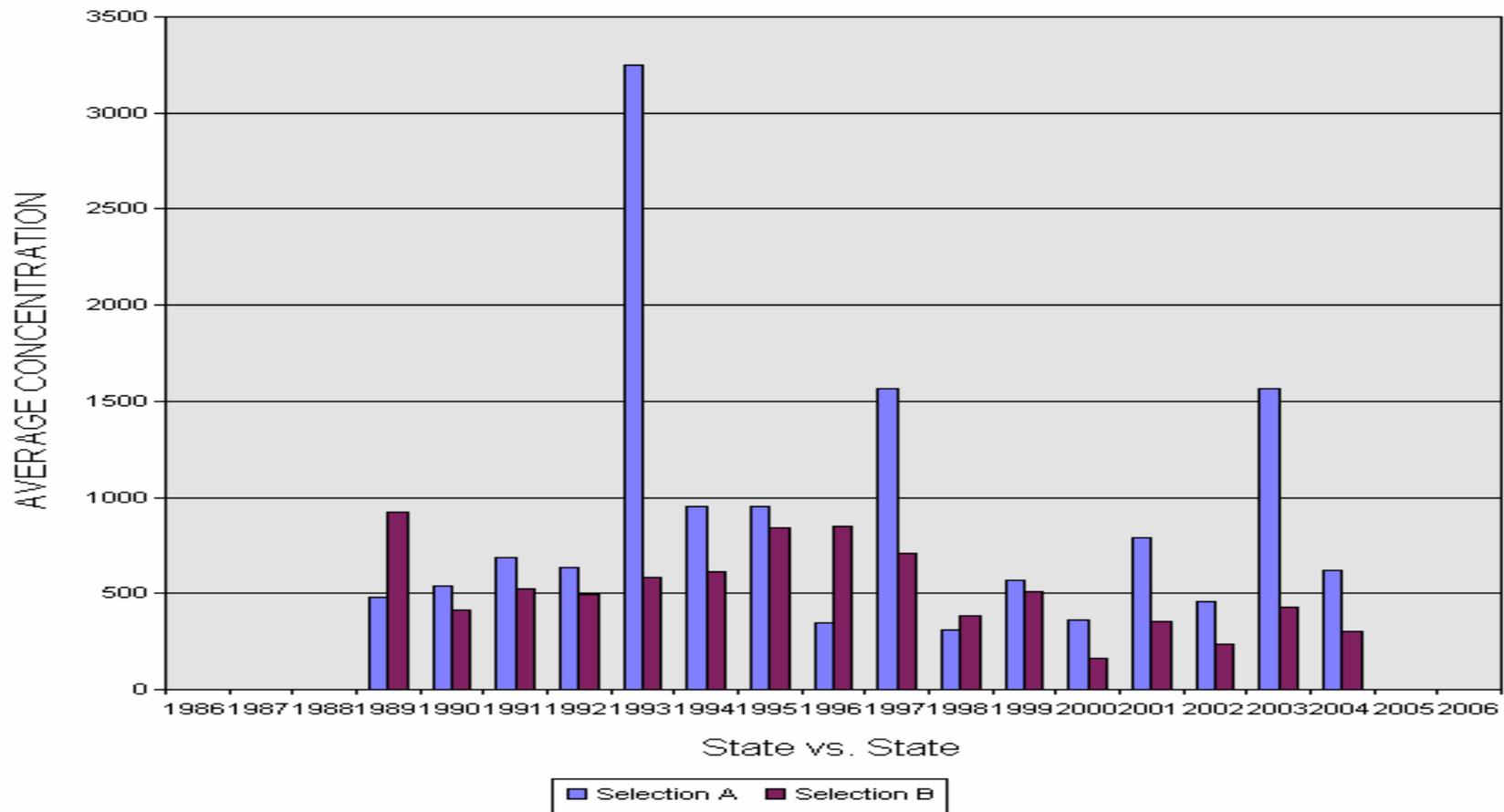
Comparing NJ and FL sites, copper (ppm)

National median: 22
 85th Percentile: 183



Comparing NJ and FL sites, tPAH (ppb)

National median: 246
 85th percentile: 1,018



Uses and Users of MW data

Planned

- Status and trends of coastal contamination
- On-line data access, download and information products

Unanticipated

- Shellfish monitoring - States (PCB trends in PS)
- Human health concerns - Cd in BC
- Litigation - DDT off CA
- Controversies - Hg in Gulf of Mexico
- Legislation - AK cruise lines and passenger ships (regulations 2004/effective 2006)

Thank You

- nsandt
- <http://ccma.nos.noaa.gov/stressors/pollution/nsandt/>