

INSIGHTS INTO LOUISIANA'S AIR TOXICS PROGRAM



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AIR TOXIC PROGRAM BACKGROUND

- Enabling authority established 1989
- Louisiana Air Toxics Rule Promulgated in December of 1991
- Program was developed with an Advisory Committee
- Regs apply to all new and existing major sources
- Applies to new and modified sources.



Louisiana Air Toxic Pollutants

- ~ 100 pollutants on initial list
 - Coverage > 99% of Louisiana TRI emissions
- Ambient Air Standard for each Toxic Air Pollutant (TAP)
- Classified by toxic effect into 3 classes
- Includes 13 pollutants not on HAP list
- Later added remaining HAP as Supplemental list



Louisiana Class Designations

- Class I – Known and probable human carcinogens
- Class II – Suspected human carcinogens & known/suspected reproductive toxins
- Class III – Acute and chronic non-carcinogenic toxins



TAPs not on HAP List

- **Ammonia**
- **Barium & Compounds**
- **n-Butyl Alcohol**
- **Copper & compounds**
- **Diaminotoluene**
- **2,6-Dinitrotoluene**
- **Nitric Acid**
- **Pyridine**
- **Sulfuric Acid**
- **Toluene-2,6-Diisocyanate**
- **Zinc & Compounds**
- **Chlorine Dioxide**
- **Hydrogen Sulfide**



Substantive Requirements

- Annual Emissions Reporting
- Case-by-case MACT determinations for Class I and II compounds
- Health based Ambient Air Standards
- Compliance by existing sources
- Ongoing permit reviews for all new and modified sources



Applicability Triggers

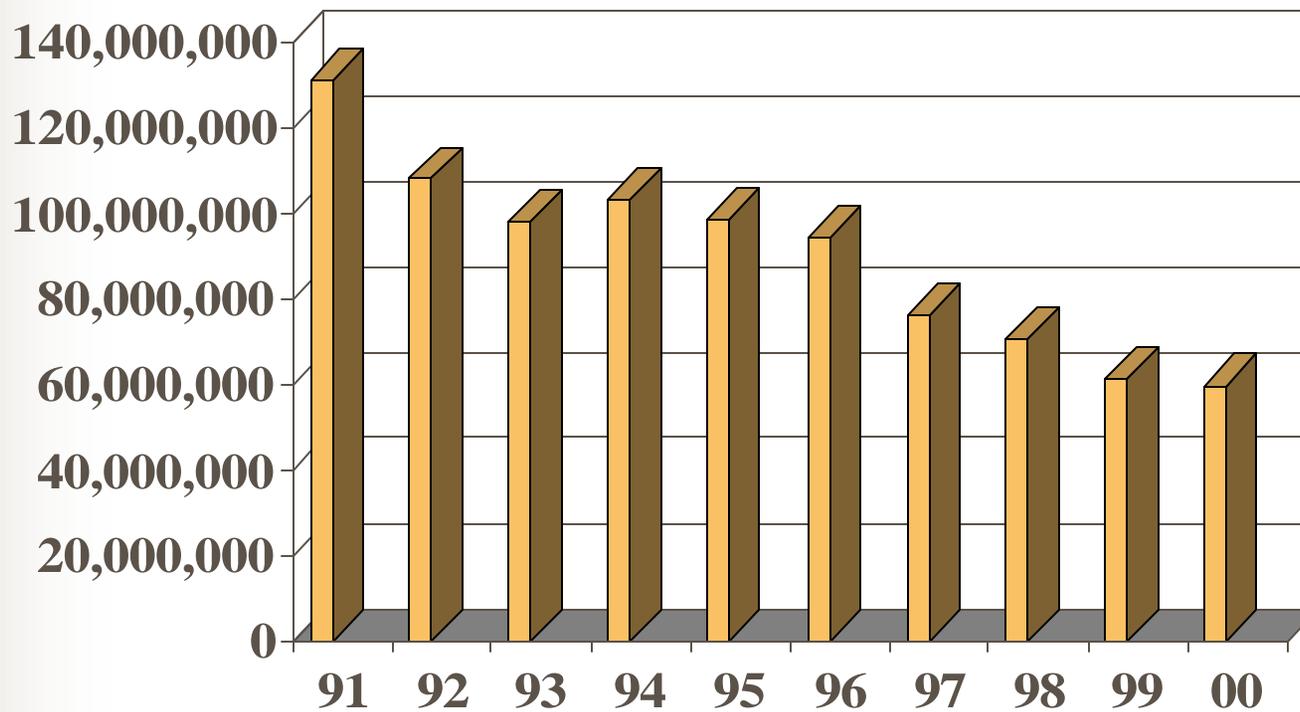
- Program applies on a pollutant basis, *not* a source category basis
- Minimum Emission Rate (MER) for each pollutant determines applicability of MACT and AAS
 - MERs established originally by worst case modeling scenarios to represent 1×10^{-6} risk, in lbs/year
 - AASs were set at 1×10^{-4} risk, in $\mu\text{g}/\text{m}^3$



MACT and Ambient Air Standard Compliance

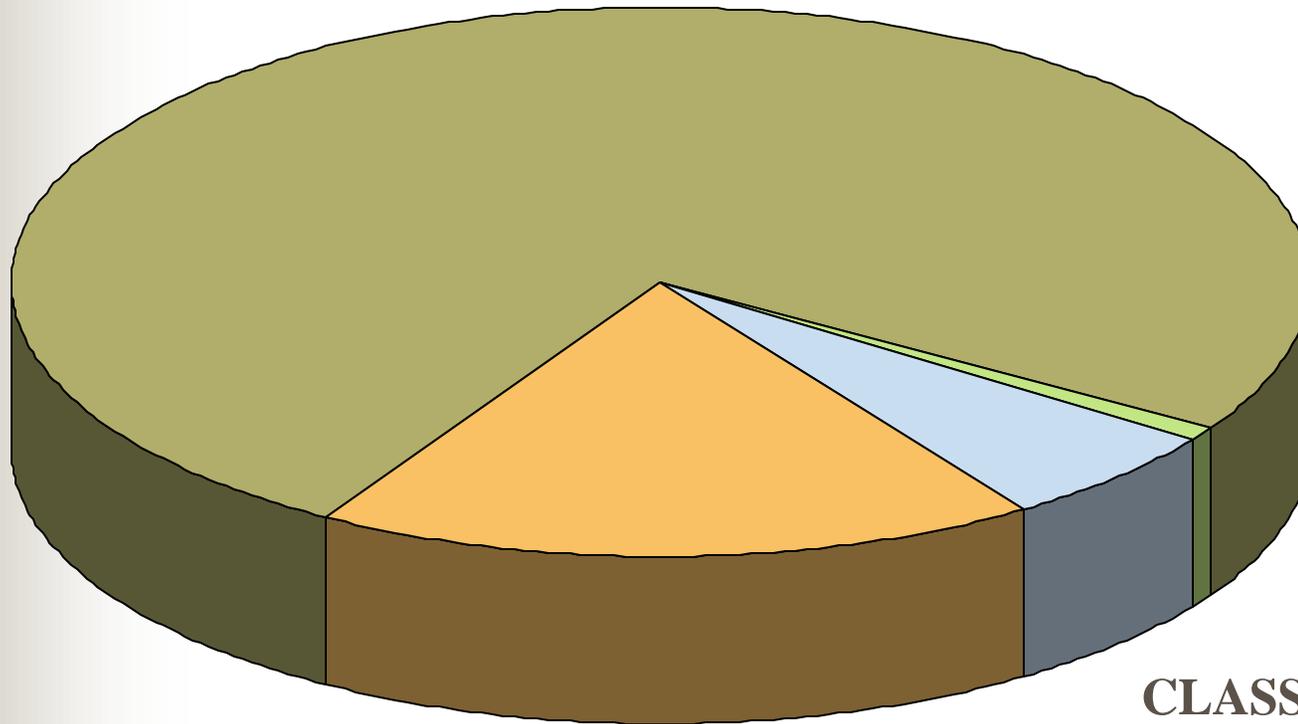
- Major sources required to submit compliance plans for MACT and AAS.
- MACT is required for every Class I and II TAP whose PTE is emitted at a rate $>$ MER
- AAS demonstration for every TAP $>$ MER
 - Dispersion model used is ISC3 model
- Case by case plan review
- There are some 'negotiated' MACTs for some industry sectors.

TEDI EMISSIONS (lbs/yr)



1992 TEDI Emissions

CLASS III
75.3%

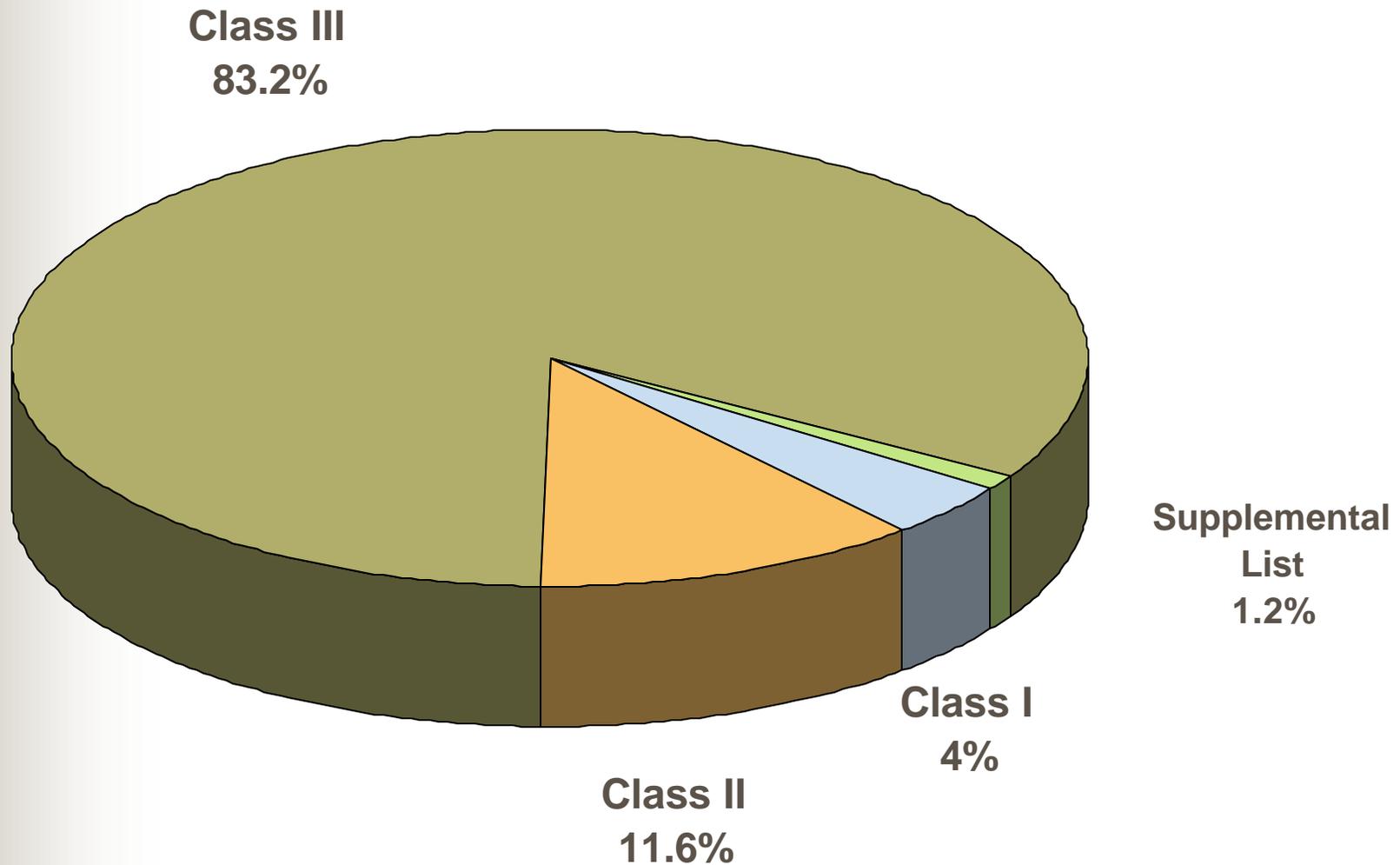


**SUPPLEMENTAL
LIST**
0.8%

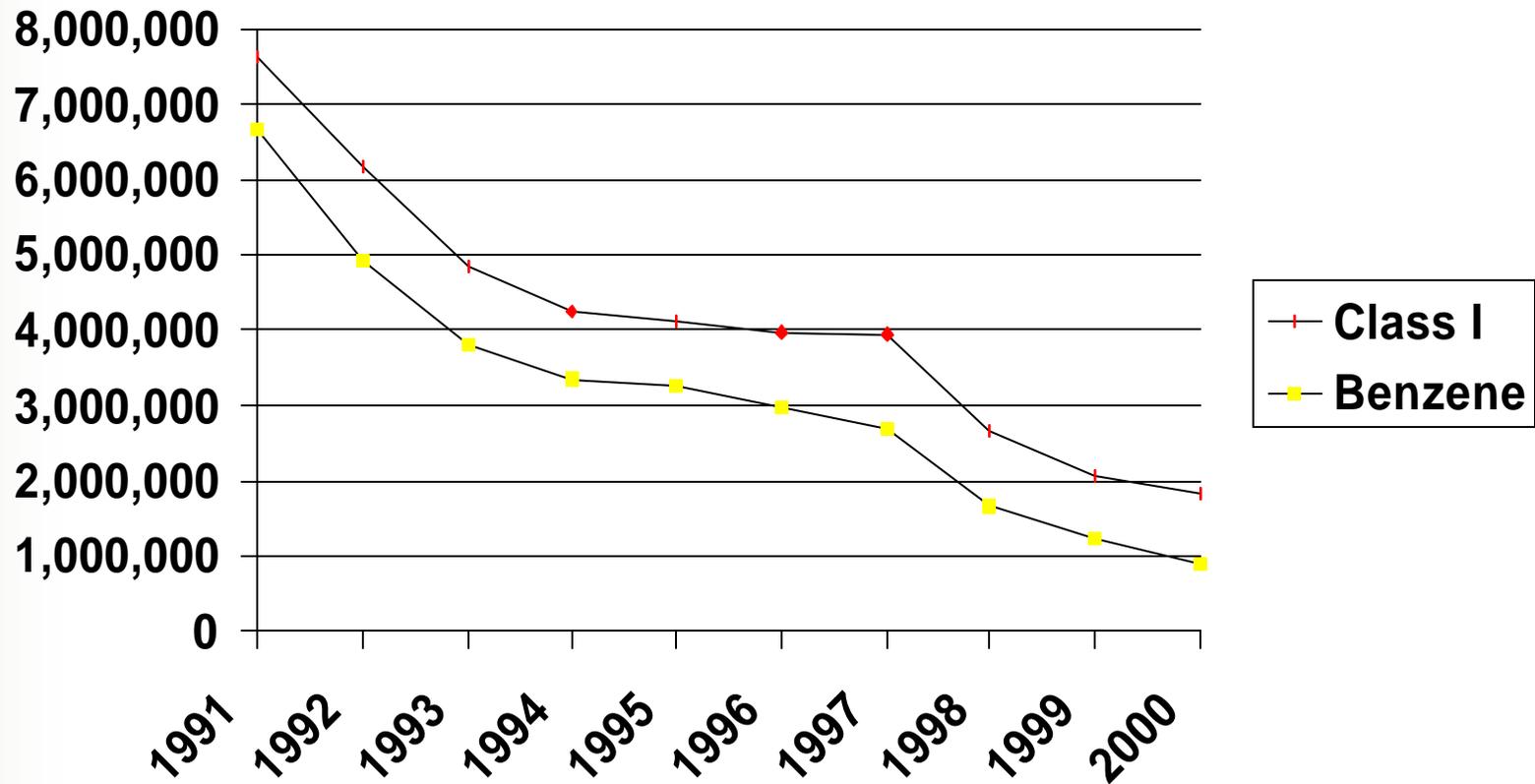
CLASS I
5.7%

CLASS II
18.2%

2000 TEDI EMISSIONS



LOUISIANA CARCINOGENIC EMISSIONS





More Information

- LDEQ web site –
 - www.deq.state.la.us
 - To see Louisiana Air Toxics emissions data
www.deq.state.la.us/evaluation/airmon/tedi.htm
 - To see Louisiana Air Toxic regulations
www.deq.state.la.us/planning/regs/title33/index.htm
(look for the Part III – Air...citation is as follows:
LAC 33:III.Chapter 51
- Call me at (225) 765-2546 or e-mail at alice_f@deq.state.la.us



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