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Office of Enforcement and Compliance Assurance

# **EPA FY2006 Compliance & Enforcement Annual Results**



**Prepared by the Office of Enforcement and Compliance Assurance**

**November 15, 2006**



# FY2006 Compliance & Enforcement Annual Results

## FY2006 Highlights

- Enforcement actions are projected to reduce pollution by 890 million pounds, EPA's fourth highest year.
- Defendants will invest \$4.9 billion to reduce pollution and achieve compliance, EPA's second highest year.
- Over the past three years, EPA has reduced almost 3 billion pounds of pollution and required companies to invest almost \$20 billion in pollution control equipment.
- Approximately 74% of pollution reductions and 71% of pollution control investments focus on priority air and water pollution problems.
- Responsible parties will clean up 1.3 billion cubic yards of contaminated water and 15 million cubic yards of contaminated soil.



# FY2006 Compliance & Enforcement Annual Results

## Important Environmental Problems

EPA's compliance and enforcement program focuses on key environmental risks and noncompliance problems. EPA enforcement actions to address key air and water pollution problems:

- reduced pollution in water by 233 million pounds and by 427 million pounds in air
- required investment of over \$1 billion in water pollution control and almost \$2.4 billion in air pollution control



# FY2006 Compliance & Enforcement Annual Results

## Priority Water Pollution Problems

	Pollutants Reduced	Investments in Pollution Control
<b>Stormwater</b>	195 million lbs.	\$150 million
Stormwater runoff from large urban areas transports contaminants directly over land and into waterways		
<b>CAFO</b>	12 million lbs.	\$10 million
Water discharges and runoff from concentrated animal feedlots (during wet weather events), transport nutrients, bacteria, pesticides, antibiotics and hormones to local waterways		
<b>CSO/SSO</b>	26 million lbs.	\$930 million
Combined sewer overflows and sanitary sewer overflows discharge untreated sewage, industrial wastewater, and other pollutants into rivers, lakes, and oceans when wet weather events exceed the storage capacity of pipes and treatment plants		
<b>Total</b>	<b>233 million lbs.</b>	<b>\$1,090 million</b>



# FY2006 Compliance & Enforcement Annual Results

## Priority Air Pollution Problems

	Pollutants Reduced	Investments in Pollution Control
NSR/PSD Coal Fired Power Plants	135 million lbs.	\$310 million
New source review/prevention of significant deterioration requirements of the Clean Air Act require industrial facilities to obtain permits for plant modifications that increase air pollution emissions		
Air Toxics	0.4 million lbs.	\$1 million
Toxic air pollutants are known or suspected to cause cancer or other serious health effects such as reproductive or birth defects, or adverse environmental impacts		
Petroleum Refining	292 million lbs.	\$2,073 million
Air emissions from petroleum refineries such as volatile organic compounds, sulfur dioxide, nitrogen oxide, carbon monoxide and particulate matter contribute to respiratory illness and heart disease and can travel long distances before falling on land and water		
<b>Total</b>	<b>427.4 million lbs.</b>	<b>\$2,384 million</b>



# FY2006 Compliance & Enforcement Annual Results

## Air Enforcement Cases Yield Environmental and Human Health Benefits

### Pollutant Reductions

- EPA's 11 largest enforcement actions for CAA violations obtained commitments by companies to reduce their emissions of sulfur oxides (SO<sub>x</sub>) and nitrogen oxides (NO<sub>x</sub>).
- When all required pollution controls are completed, emissions will be reduced by approximately 470 million pounds per year.



### Health Benefits

- The **annual** human health benefits from these reductions in SO<sub>x</sub> and NO<sub>x</sub> are estimated at \$3.5 billion. These health benefits include:
  - approximately 500 fewer premature deaths in people with heart or lung disease;
  - several hundred fewer cases of chronic bronchitis and acute bronchitis;
  - several hundred fewer nonfatal heart attacks;
  - a few thousand fewer cases of upper and lower respiratory symptoms;
  - a few thousand fewer cases of upper aggravated asthma; and
  - tens of thousands of fewer days when people would miss work or school.

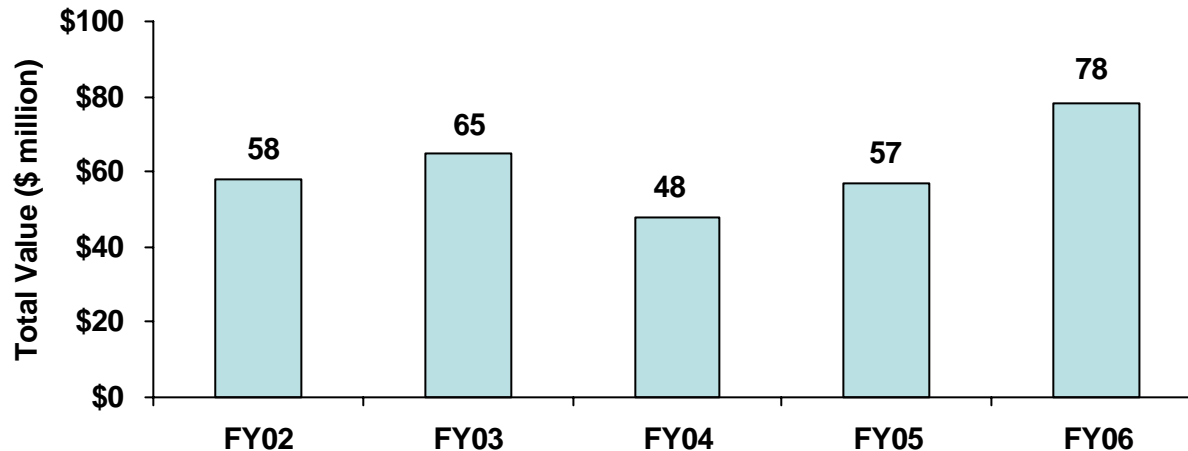


# FY2006 Compliance & Enforcement Annual Results

## Dollar Values of Concluded EPA Civil Enforcement Actions

### Five Year High

Environmentally Beneficial Projects  
(\$ million)



Note: In previous years, this information was referred to as value of SEPs.

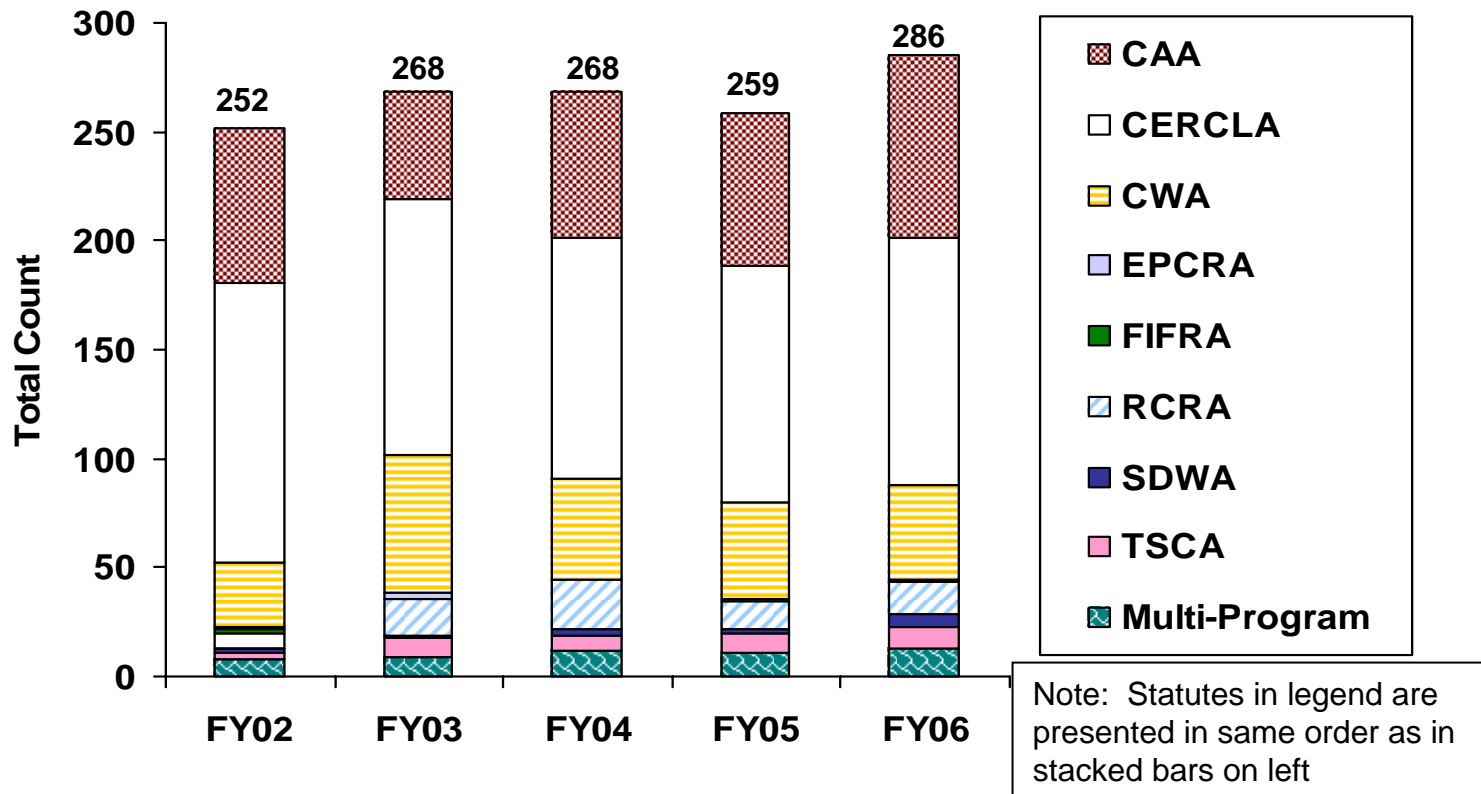
FY2006 Data Source: Integrated Compliance Information System (ICIS), October 28, 2006;  
data source for previous fiscal years: annual ICIS data

Disclaimer: Minor corrections may have been made to previous years' data.



# FY 2006 Compliance & Enforcement Annual Results

## EPA Referrals of Civil Judicial Enforcement Cases to Department of Justice – Total and by Statute



FY2006 Data Source: Integrated Compliance Information System (ICIS), October 28, 2006;  
 data source for previous fiscal years: annual ICIS data

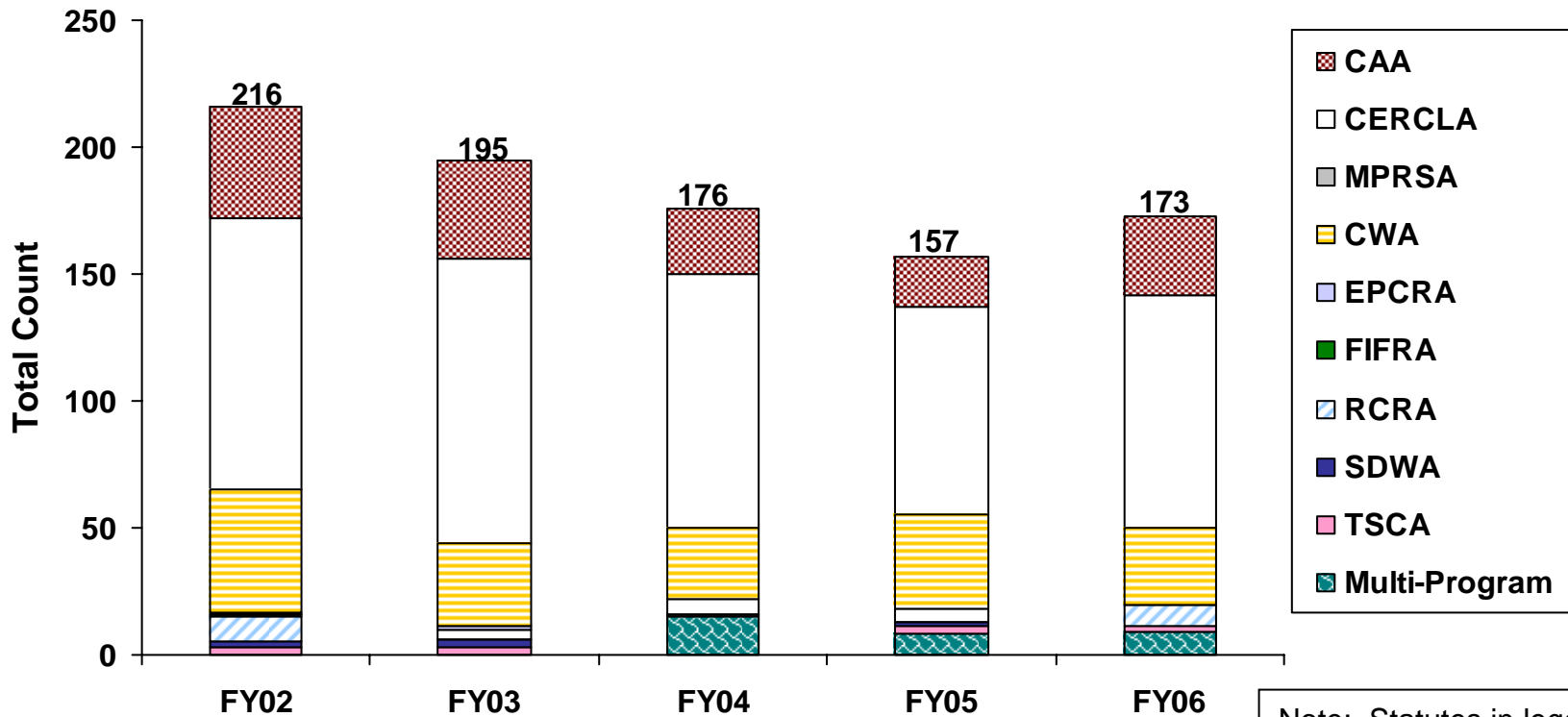
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# FY2006 Compliance & Enforcement Annual Results

## EPA Civil Judicial Enforcement Case Conclusions – Total and by Statute



Note: Statutes in legend are presented in same order as in stacked bars on left

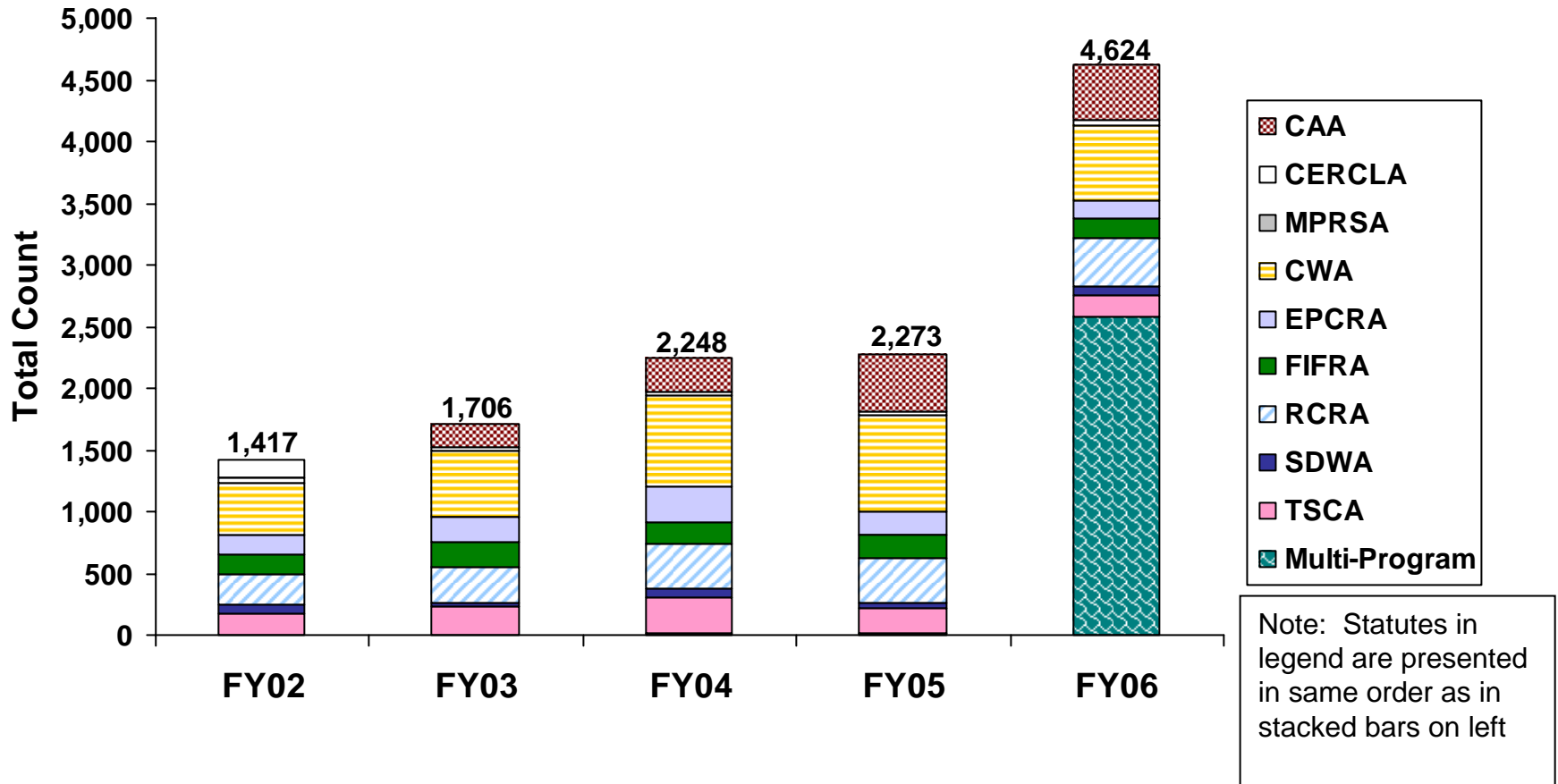
FY2006 Data Source: Integrated Compliance Information System (ICIS), October 28, 2006;  
 data source for previous fiscal years: annual ICIS data

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# FY2006 Compliance & Enforcement Annual Results

## EPA Final Administrative Penalty Orders – Total and by Statute



FY2006 Data Source: Integrated Compliance Information System (ICIS), October 28, 2006;  
 data source for previous fiscal years: annual ICIS data

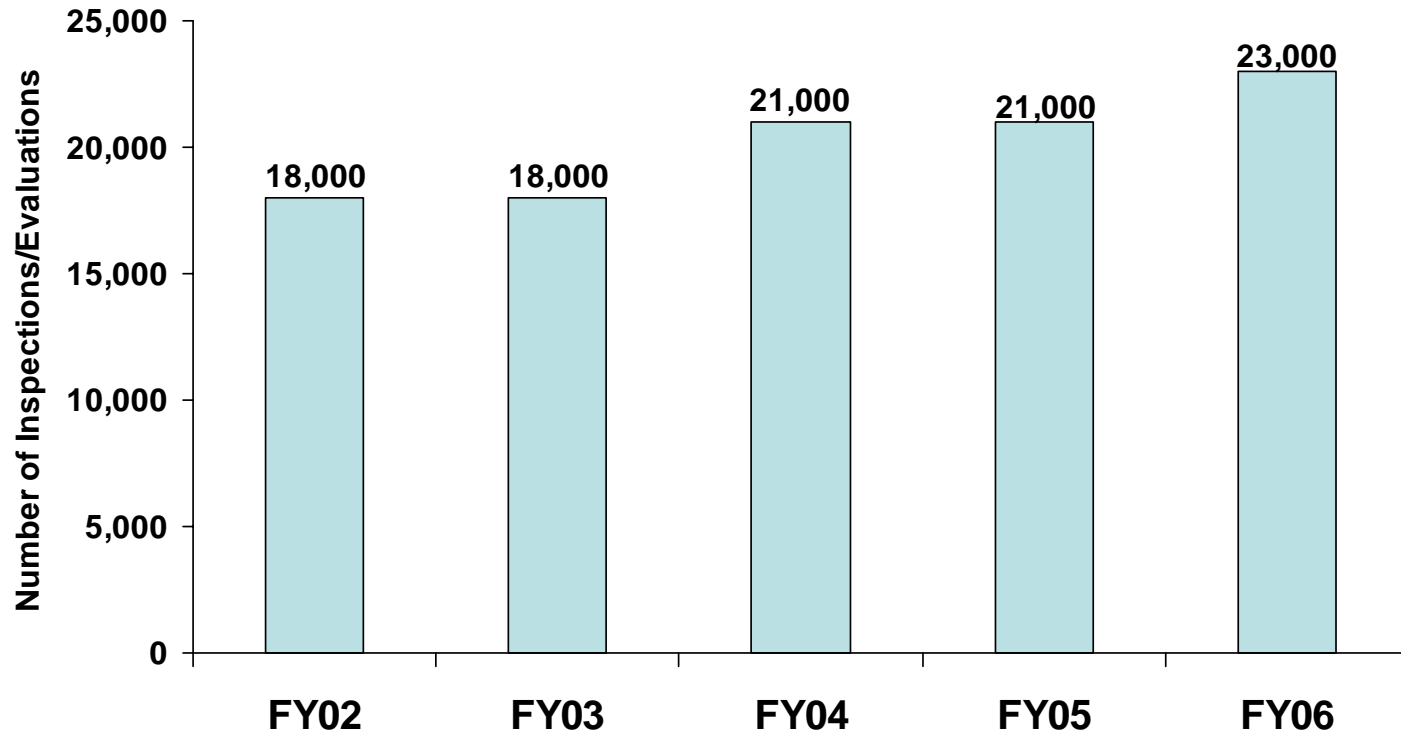
Disclaimer: Minor corrections may have been made to previous years' data.



# FY2006 Compliance & Enforcement Annual Results

## Compliance Monitoring

### Number of Inspections/Evaluations Conducted by EPA



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data source for all other fiscal years (2002-2005): annual ICIS data

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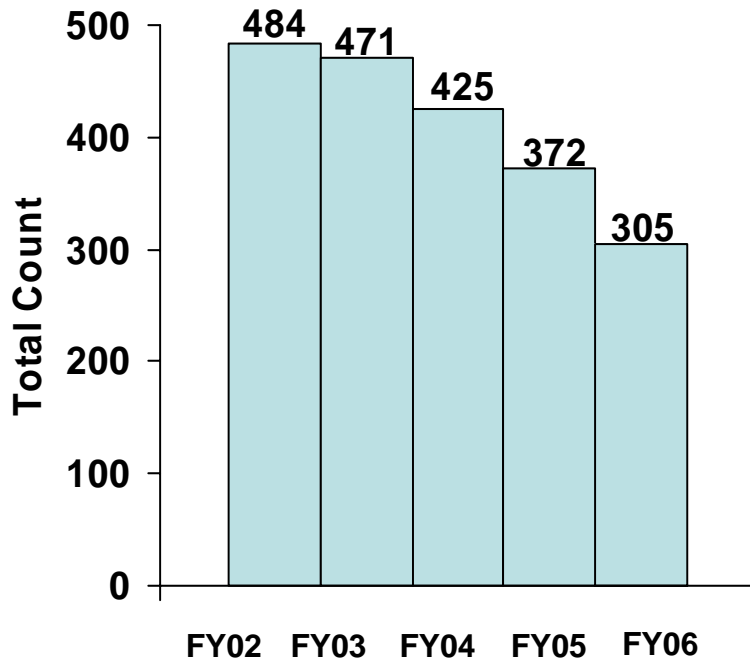


# FY2006 Compliance & Enforcement Annual Results

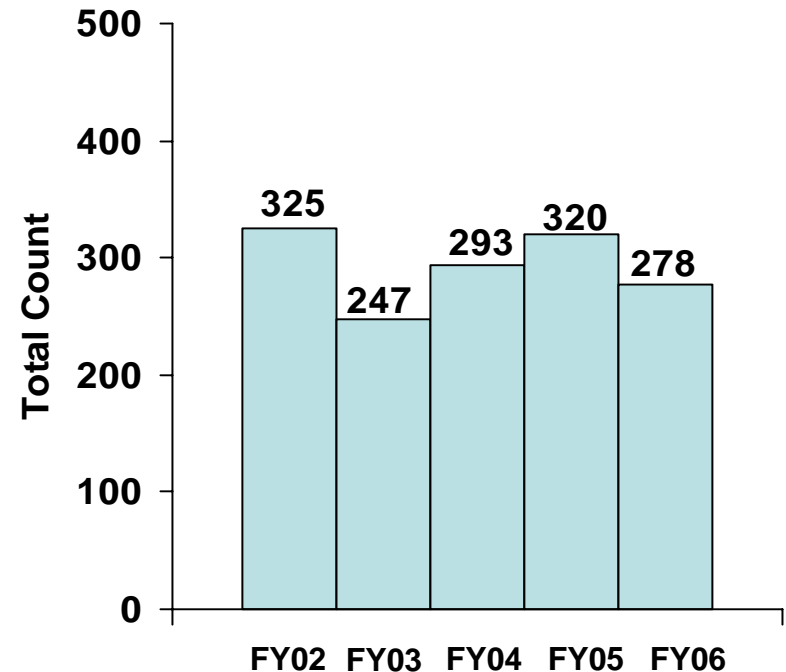
## Criminal Enforcement Program

### Environmental Crime

#### Environmental Crime Cases Initiated



#### Defendants Charged



FY2006 Data Source: Criminal Case Reporting System, October 28, 2006;

Source for previous years: annual Criminal Case Reporting System data

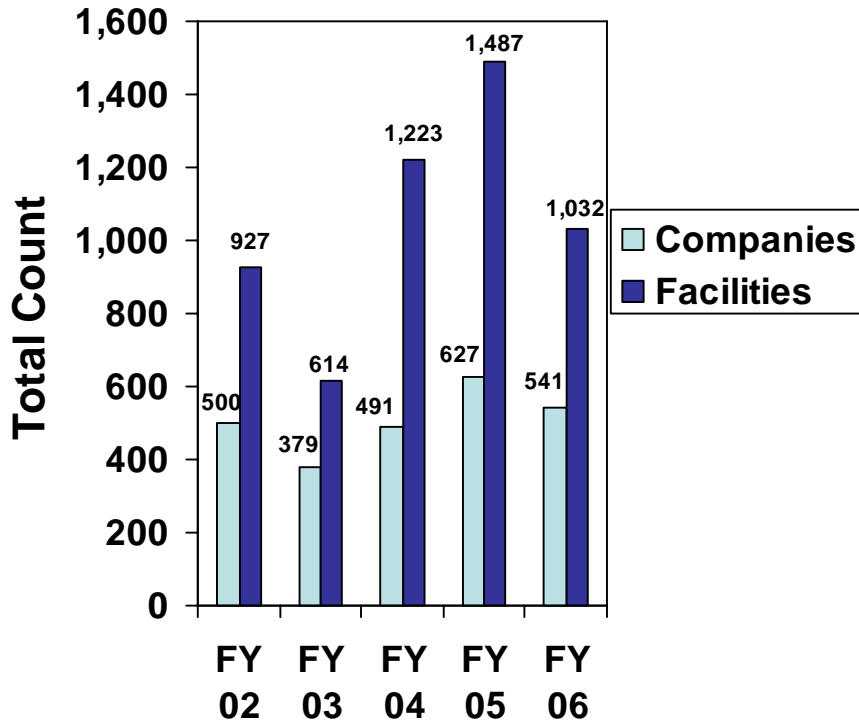
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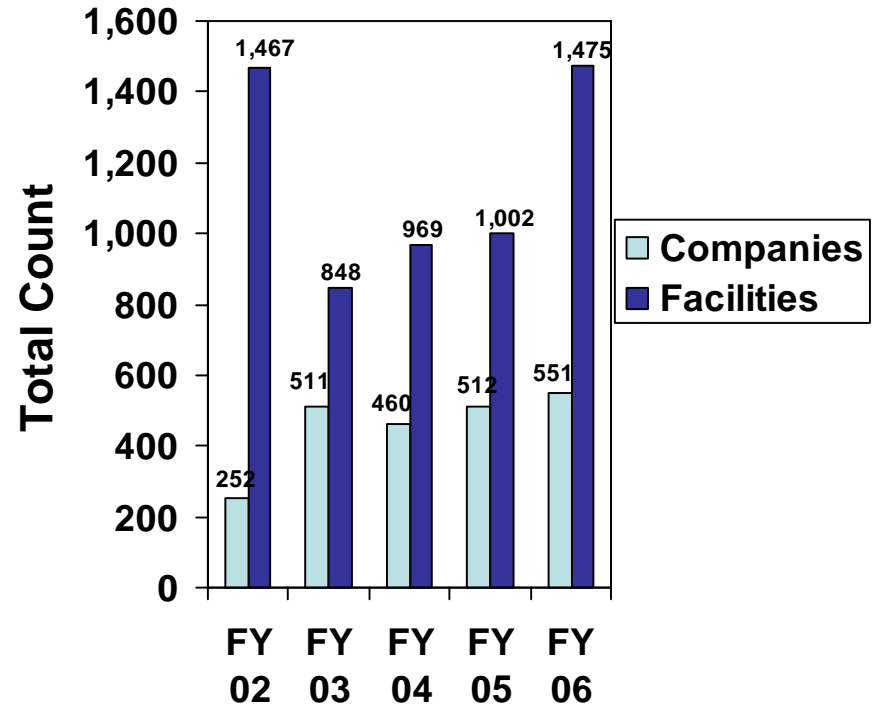
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## EPA Voluntary Disclosure Programs

**Voluntary Disclosures Initiated**



**Voluntary Disclosures Resolved**



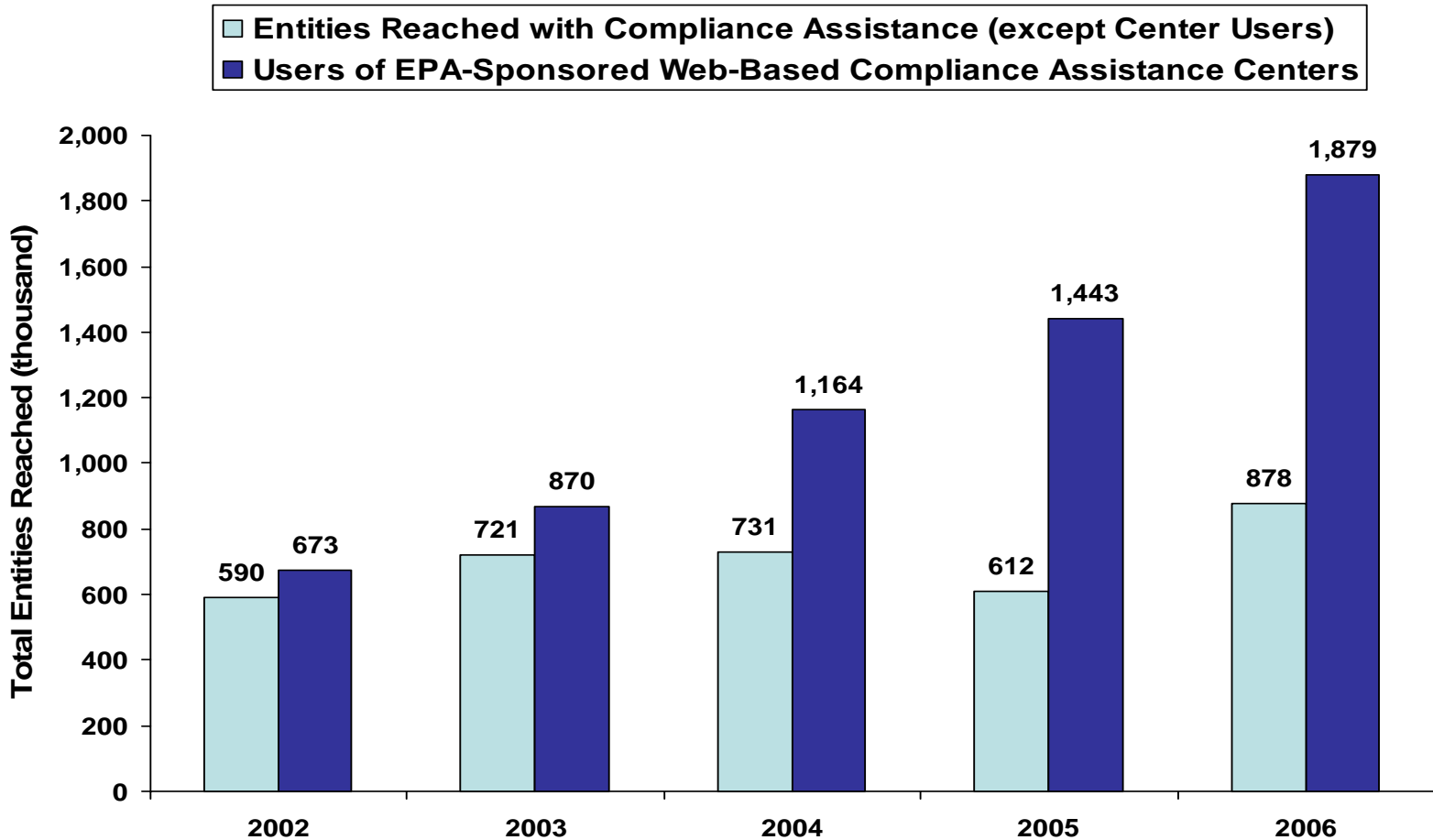
Data Source: Integrated Compliance Information System (ICIS), October 28, 2006; data source for previous fiscal years: annual ICIS data

Disclaimer: Minor corrections may have been made to previous years' data.



# FY2006 Compliance & Enforcement Annual Results

## Entities Reached with EPA Compliance Assistance



FY2006 Data Sources: Integrated Compliance Information System (ICIS), October 28, 2006 and on-line usage report; data source for previous fiscal years: annual ICIS data and on-line usage reports

Disclaimer: Minor corrections may have been made to previous years' data.



FY2006 Annual Results can be found at:

<http://www.epa.gov/compliance/data/results/annual/fy2006.html>

U.S. Environmental Protection Agency



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## Compliance and Enforcement Annual Results: FY2006 Regional Results

Each year EPA reports on enforcement actions and how we help people meet environmental requirements. EPA organizes its programs into ten (10) regional offices to administer its programs. This year, in addition to national results, we are reporting by regional office.

The map below is divided into regions. For ease of reference the states in each region are also listed below. Click on the state where you live to obtain information about enforcement and compliance annual results in your state's region.

### Regional Offices

**Region 1** - (ME, NH, VT, MA, RI, CT)

**Region 2** - (NY, NJ, PR, VI)

**Region 3** - (PA, DE, DC, MD, VA, WV)

**Region 4** - (KY, TN, NC, SC, MS, AL, GA, FL)

**Region 5** - (MN, WI, IL, MI, IN, OH)

**Region 6** - (NM, TX, OK, AR, LA)

**Region 7** - (NE, KS, IA, MO)

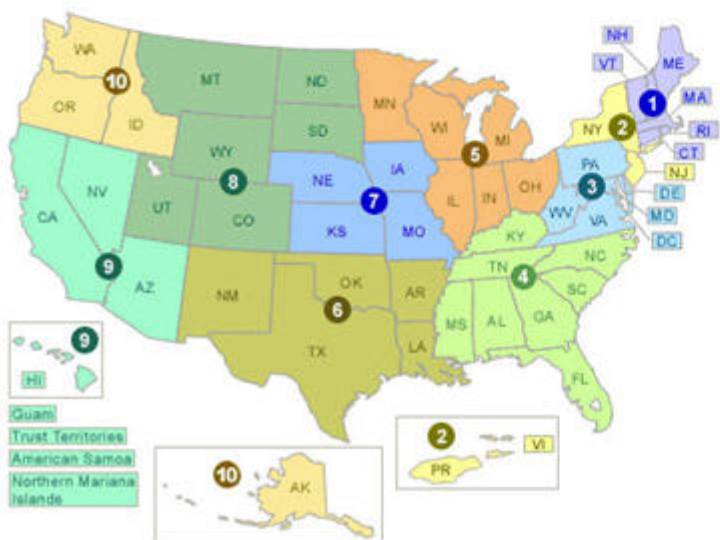
**Region 8** - (MT, ND, WY, SD, UT, CO)

**Region 9** - (CA, NV, AZ, HI)

**Region 10** - (WA, OR, ID, AK)

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