

#### 2005 Reports - Overview

- (1) Number of highway diesel refineries
- (2) 15 ppm and 500 ppm production
- (3) Total highway production
- (4) Credit program
- (5) Construction and startup
- (6) Nonroad pre-compliance reports

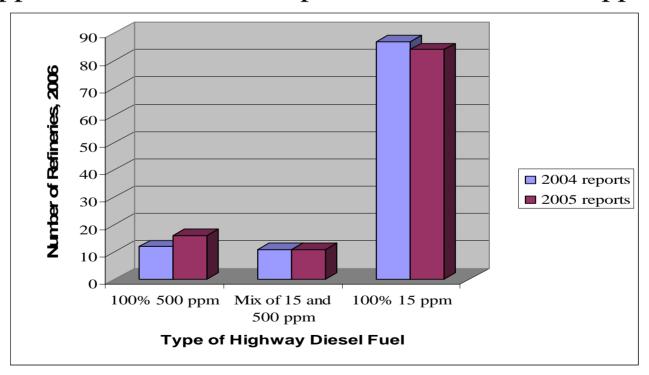
#### (1) Number of Highway Diesel Refineries

- Using 2003 as base year for comparison with 2005 reports (previously used 2000 for comparison)
- Number of highway diesel refineries have changed slightly
- One refinery that had announced last year they would be shutting down will remain in operation
- A couple other refineries choosing to delay to 2010

	2003	2006	2007	2008	2009	2010
2004 Report	115	110	112	112	113	114
2005 Report	115	111	111	111	111	114

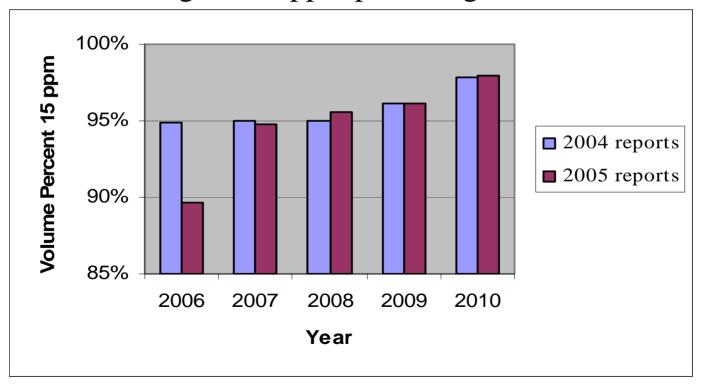
## (2) Number of Refineries producing 15 ppm and/or 500 ppm in 2006

• In 2006, 3 fewer refineries are projected to be 100% 15 ppm, and 4 more are expected to be 100% 500 ppm



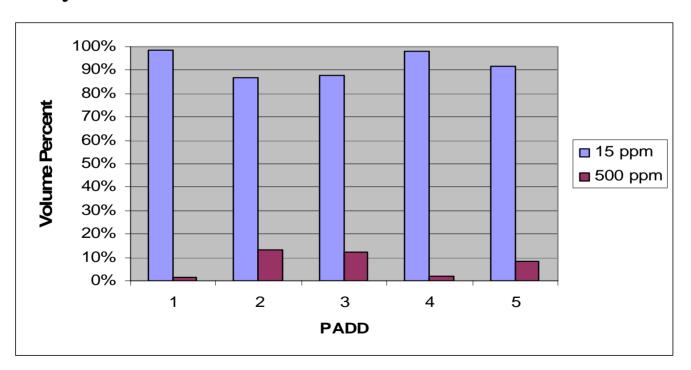
### 15 ppm as Percentage of Total Production – 2004 Reports vs. 2005 Reports

• 15 ppm percentage of total production in 2006 is now 90%, little change in 15 ppm percentage for 2007-10



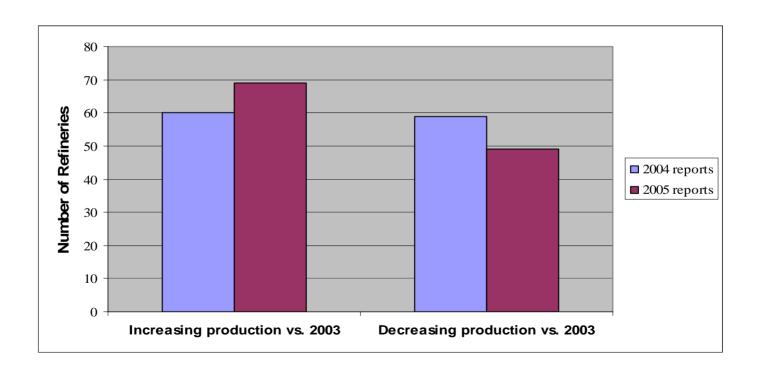
#### Distribution of 15 ppm and 500 ppm Production in 2006 (2005 Reports)

• 500 ppm production is dispersed so that 15 ppm is still widely available nationwide



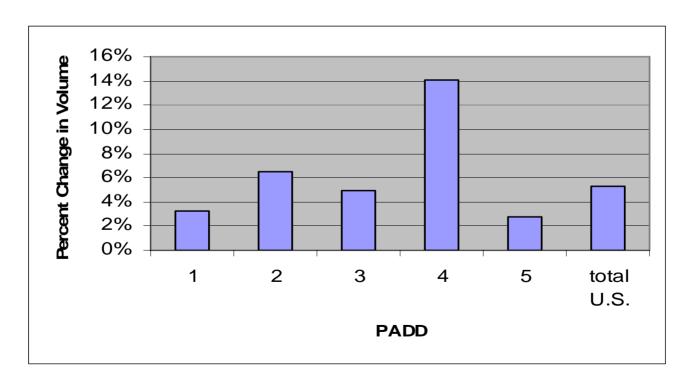
# (3) Number of Refineries Increasing or Decreasing Total Highway Production

• Compared to last year's report, 9 more refineries reported their highway diesel production will increase in 2006

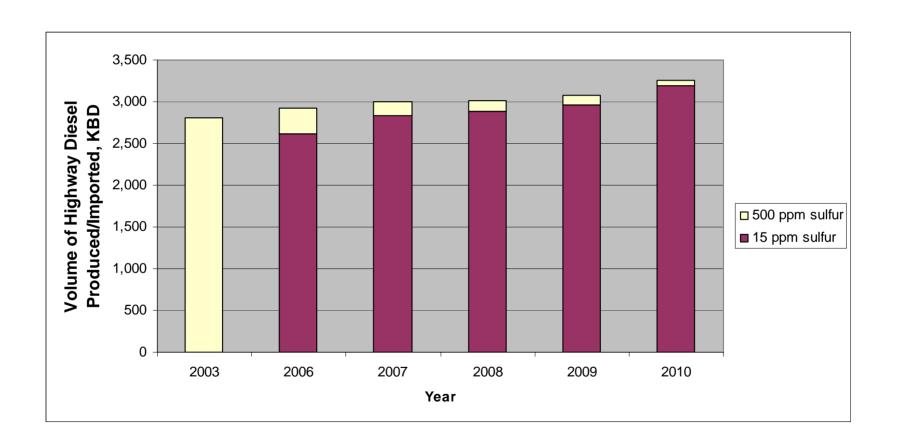


### % Change in Total Highway Production from 2004 Reports to 2005 Reports

• Reported diesel production volumes for 2006 have increased across all PADDs

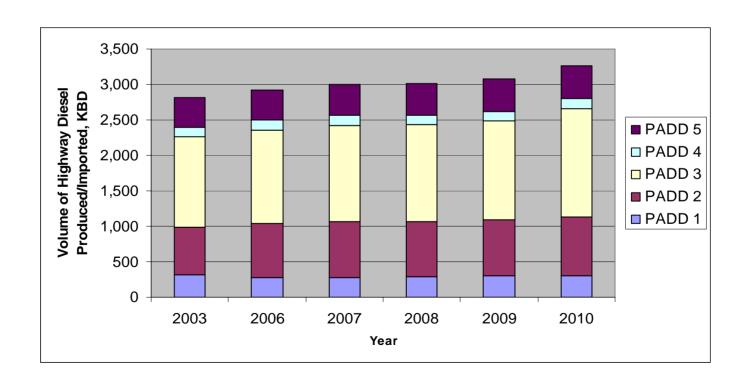


# U.S. Highway Volumes by Type (2005 Reports)



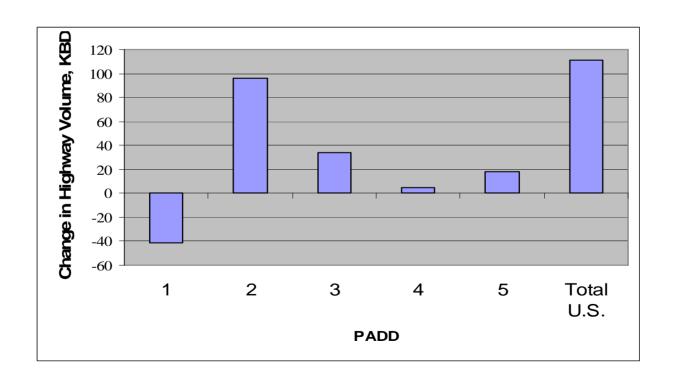
### U.S. Highway Volumes by PADD (2005 Reports)

 Reported volumes generally increase across all PADDs from 2006 onward



## Change in Highway Production from 2003 to 2006 (2005 Reports)

 Change in highway production from 2003 to 2006 varies across PADDs



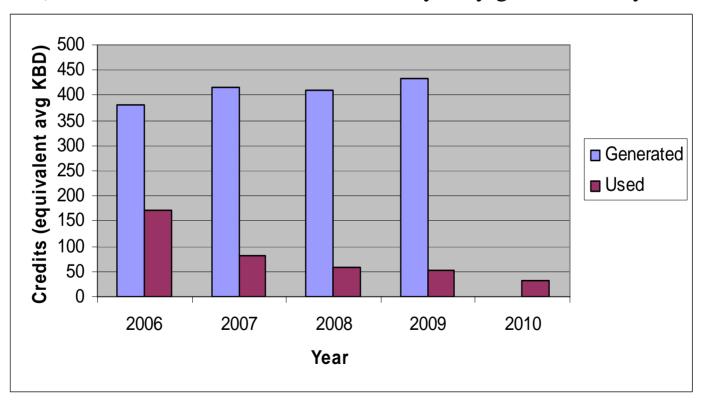
#### Small & GPA Refiners

• Information was received from 31 refineries on the available small & GPA refiner options:

Option	Description	Refineries		Highway Diesel Fuel Production, 2006 (KBD)
a	500 ppm option	5	4	7
b	Credit option	6	6	19
С	Diesel-gasoline compliance option	9	11	158
GPA	Diesel-gasoline compliance option	12	10	96
	Total	32	31	280

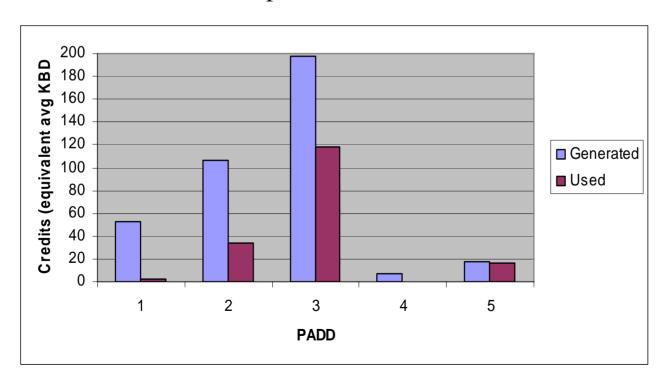
#### (4) Highway Diesel Credit Program

- Reports indicate that many credits will be generated provides refiners and importers with additional flexibility, if necessary
- Doesn't include early credits won't know until reports are sent next year (25 refineries have notified EPA they may generate early credits)



#### Credit Generation and Usage by PADD in 2006

- Highway diesel credits are generated and used within 7 credit trading areas (CTAs)
- CTAs are same as PADDs, except HI and AK are split out from PADD 5 into their own separate CTAs



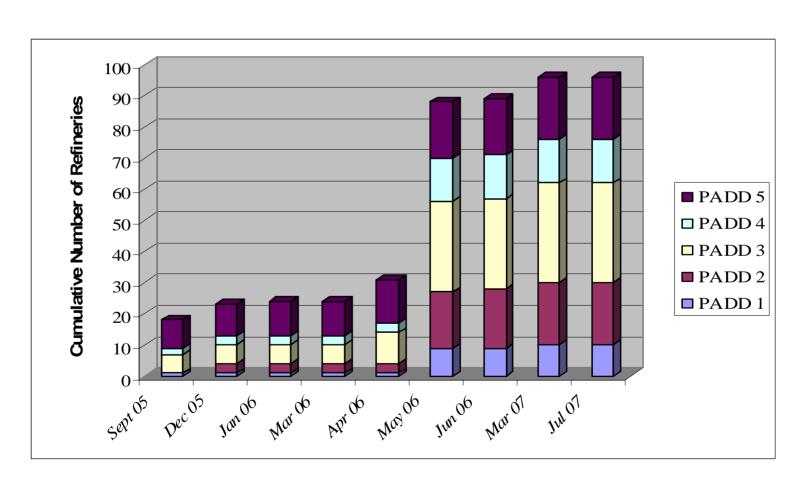
## (5) Refinery Desulfurization Plans: Revamp vs. Grassroots Projects

- 82 refineries reported plans for producing 15 ppm diesel
  - 54 refineries reported revamping one or more existing units
  - 18 refineries reported they would just be installing new units
  - 10 refineries reported a combination of revamps and new units
- 11 refineries reported they did not have to install new facilities to produce 15 ppm highway diesel
- 22 refineries either did not specifically state their plans to produce 15 ppm highway diesel
  - Small refiners
  - Others delaying compliance

### Refinery Desulfurization Plans: Construction and Engineering

- Most refineries have completed engineering and are constructing new desulfurization capacity
- Engineering and construction summary:
  - 75 refineries have completed engineering, and 83 refineries will be done by the end of the year
  - 18 refineries have desulfurization units operational now, and 23 refineries anticipate having desulfurization units operational by the end of the year
  - 88 refineries anticipate that desulfurization units will be operational by May, 2006

#### Projected Start-up Dates for 15 ppm Highway Diesel Production



#### (6) NRLM Pre-Compliance Reports

- This is the first year we also received precompliance reports for NRLM production
- NRLM reports asked for production volumes of 15 ppm (highway + NRLM) and 500 ppm NRLM from June, 2010 – Dec, 2014, and NRLM production plans
- Too early to draw any definite conclusions from this year's NRLM reports – many refiners are still trying to define how much NRLM they need to make

#### For further information ...

www.epa.gov/otaq /diesel.htm