

# California Air Resources Board



## Reducing Emissions from On-Road Heavy-Duty Diesel Trucks Dedicated to Goods Movement at California Ports

Public Workgroup Meeting  
November 13, 2006



# Goods Movement Plan

## □ The Need

- **Community health and environmental justice**
- **ARB's Diesel Risk Reduction Plan**
- **Air quality plans (SIPs)**

# Goods Movement Plan Cont.

- **Reduce Emissions From:**
  - **Heavy duty diesel trucks**
  - **Locomotives**
  - **Ships**
  - **Harbor craft**
  - **Cargo handling equipment**

# Starting Point

## Initial Port Truck Strategy

- ❑ Replace the oldest trucks and install controls on the entire fleet.
- ❑ Establish emission criteria for trucks entering port service.
- ❑ Beginning 2017 and by 2019, trucks will further reduce emissions by meeting 2010 engine standards.
- ❑ Evaluate potential incentives.

# ARB's Two Truck Measures

Private Fleet Measure

2007

Port Truck  
Measure

November 2007

# Regulatory Timeline

- ❑ Research – Ongoing
- ❑ Outreach with Stakeholders – Ongoing
- ❑ Public Meetings – Started August 2006
- ❑ Regulation Development Workgroups – Ongoing
- ❑ Staff Report Including Draft Regulation – September 2007
- ❑ Board Consideration – November 2007

# Workgroup Goals

- **Goals**
  - **Define 'Port'**
  - **Define 'Port Truck'**
  - **Identify action items**
- **All Input Invited**
- **Set Future Meeting**

# Questions / Comments



# 'Port' and 'Port Trucks' Definition



# Criteria

## □ 'Port'

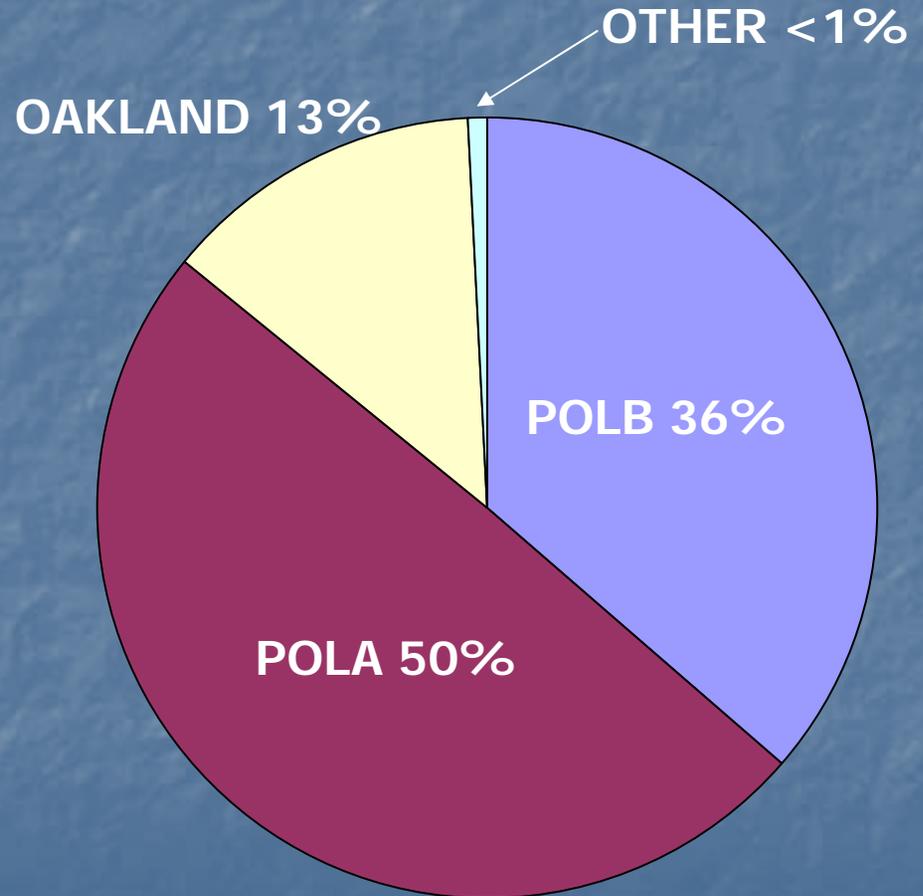
- TEU volume

## □ 'Port Truck'

- Number of trips to the port
- Age distribution of the trucks

# 2005 TEU VOLUME CALIFORNIA PORTS

Port	TEUs
Long Beach	3,807,373
Los Angeles	5,191,339
Oakland	1,389,807
Other	91,879
Total	10,480,398



# Port Truck Population

- **ARB's Port Truck Report ~ 12,000 trucks**
  - Caltrans data
  - Ports of Los Angeles, Long Beach and Oakland
  
- **2005 Ports of Los Angeles and Long Beach Data**
  - 7 terminals,
  - ~ 740,000 data points
  
- **2006 Port of Oakland Data**
  - ~ 3,000 data points

# Port Truck Population Los Angeles / Long Beach

- ARB Preliminary Analyses of Ports of Los Angeles and Long Beach Data
  - 15,700 unique license plates
  - 37 day period is sufficient to represent entire year
  - Most trucks visiting one terminal also visit other terminals

# Port Truck Population Los Angeles / Long Beach

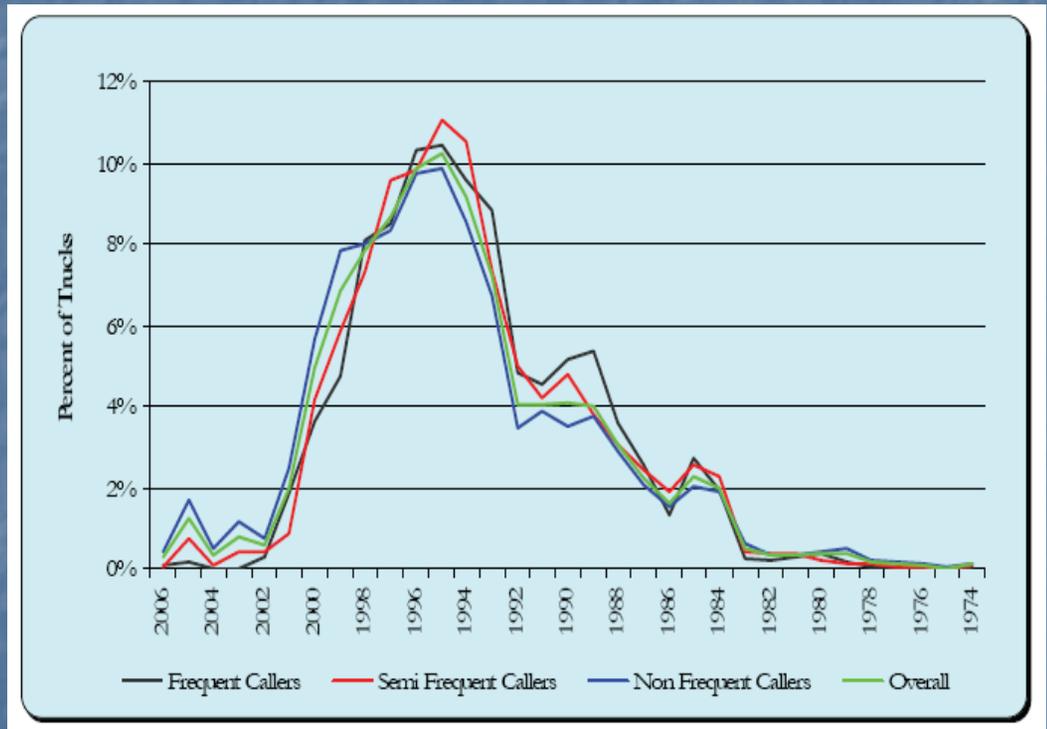
- Number of trucks servicing ports
  - ~ 6,000 - 7,000 trucks visit ports at least once a day
  - ARB estimates ~ 1,000 trucks visit ports three times per week
  - POLB/POLA estimates ~ 9,000 trucks visit ports three times per week

# Port Truck Population Oakland

- ARB preliminary analyses of Port of Oakland Data
  
- Two categories of port truck drivers:
  - Multiple short trips (up to 8 per day)
  - 2-3 longer trips per day

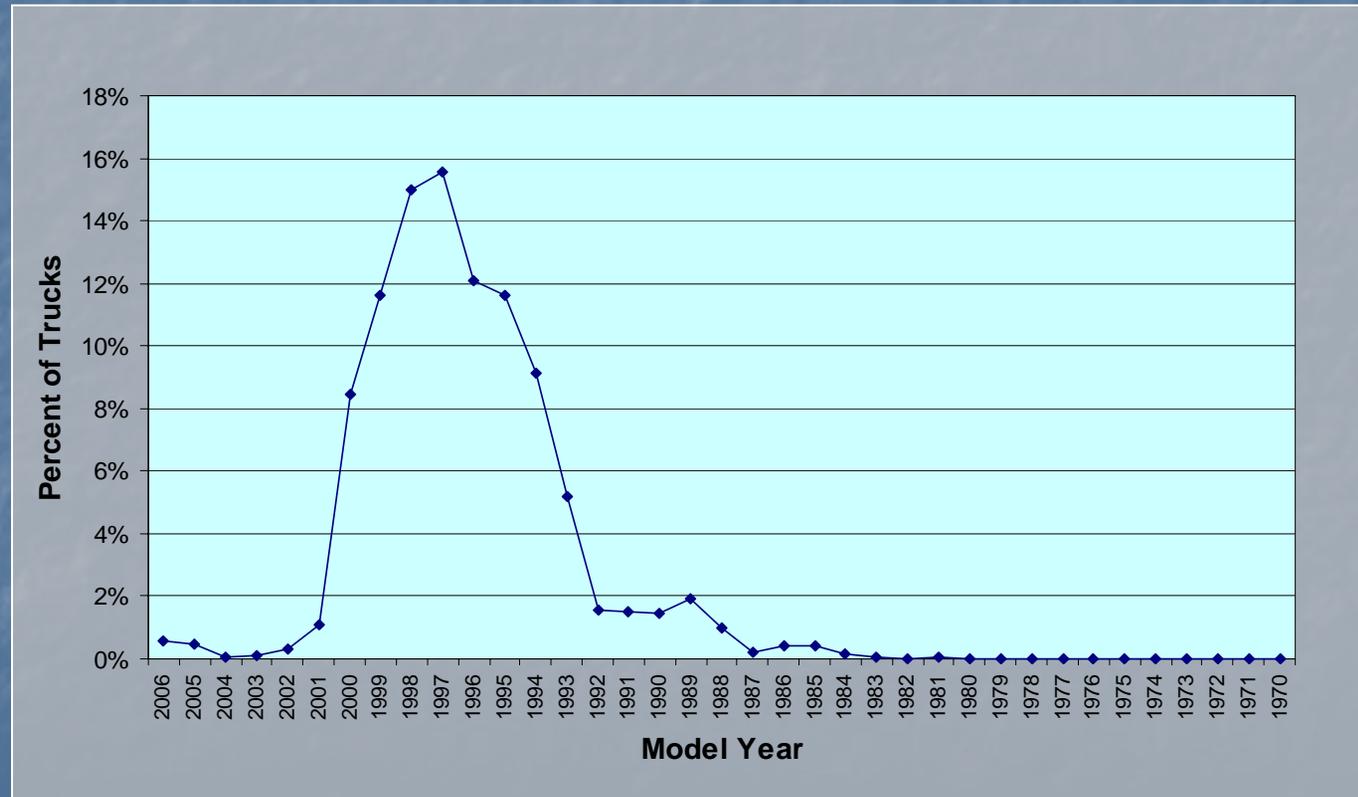
# Port Truck Age Distribution Los Angeles / Long Beach

Model Year	Population Percentage
Pre-1994	37
1994 - 1997	38
1998 - 2002	22
2003 - 2006	3
Total	100



# Port Truck Age Distribution Oakland

Model Year	Population Percentage
Pre-1994	14
1994-1997	48
1998-2002	37
2003-2006	1
<b>Total</b>	<b>100</b>



# Conclusion / Discussion

## □ 'PORTS'

- ✓ Only regulate ports of Los Angeles, Long Beach and Oakland
- ✓ >99% of Statewide TEU volume
- ✓ Trucks servicing other ports will fall under private fleet regulation

## □ 'PORT TRUCKS'

- ✓ Assuming minimum 1 trip to the port per day
  - ~ 7,000 trucks for ports of LA and LB
  - ~ 2,000 trucks for port of Oakland

# Conclusion / Discussion Cont.

## □ 'PORT TRUCKS' CONT.

- ✓ Estimated number of trucks affected by regulation ~9,000
  - ~ 3,000 trucks replaced and retrofitted
  - ~ 6,000 trucks retrofitted
- ✓ Age distribution differs between ports
  - Oakland trucks slightly newer

# Questions / Comments 'Port' and 'Port Trucks' Definition



# Action Items

## Future Meetings/Contact Info

- Action Items

- Future Public Workgroup Meeting:
  - December 2006, Southern Calif.

- Contact Information:

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