

# Smog Index Vehicle Emissions Label

Air Resources Board Meeting  
Los Angeles, CA  
June 21, 2007

Proposed Amendments



# Overview

- ◆ Legislation Assembly Bill 1229
- ◆ Current Smog Index label
- ◆ Proposed amendments
- ◆ Economic impact
- ◆ Outstanding issues
- ◆ Summary and recommendation



# Assembly Bill 1229 Summary

- ◆ Revise existing Smog Index label to include global warming index
- ◆ Applies to 2009+ MY vehicles
- ◆ Directs ARB to include:
  - All passenger cars, light duty trucks, and medium duty passenger vehicles
  - One color ink in addition to black
  - Brief explanation of both indexes



# Current Smog Index Label

## SMOG EMISSIONS INFORMATION

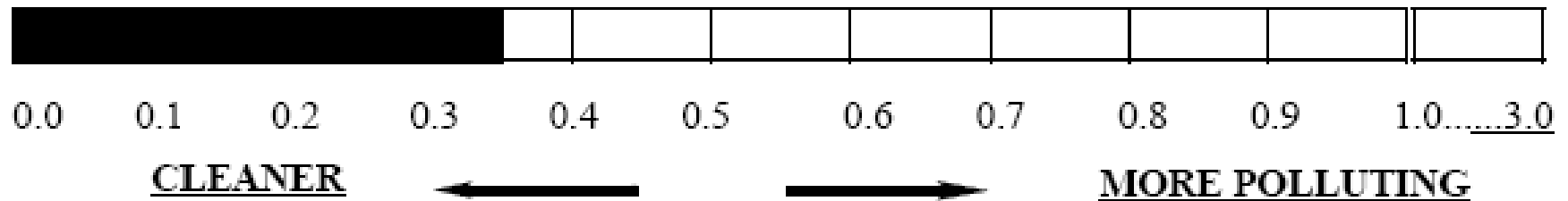
The Smog Index of this vehicle is

**0.34**



The Smog Index of the average new vehicle is

**0.52**



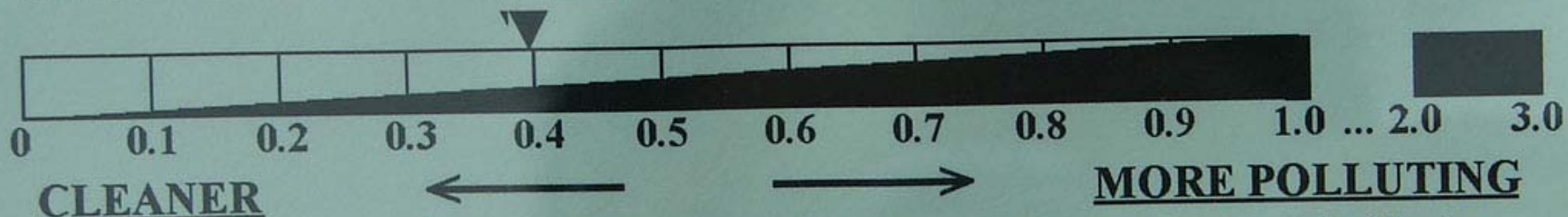
Note: The Smog Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

# In-Use Smog Index Examples

## SMOG EMISSIONS INFORMATION

The SMOG Index of this vehicle is: 0.39

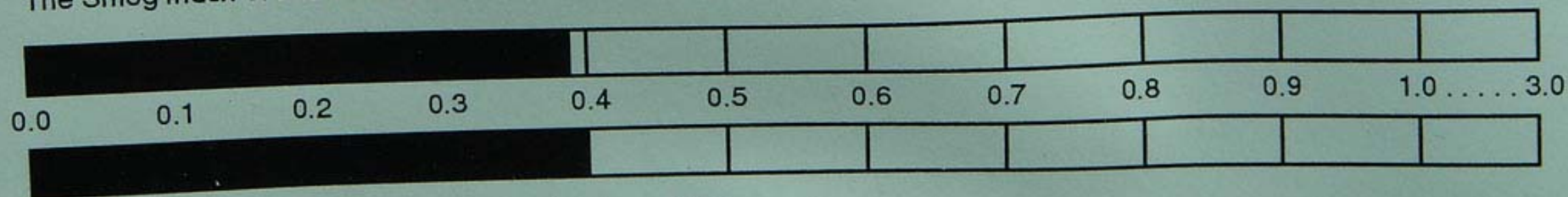
The SMOG Index of the average new vehicle is: 0.40



Note: The SMOG Index (SI) indicates the relative level of smog-forming pollutants emitted by the vehicle. The lower the SI, the lower the vehicle's emissions.

## SMOG EMISSIONS INFORMATION

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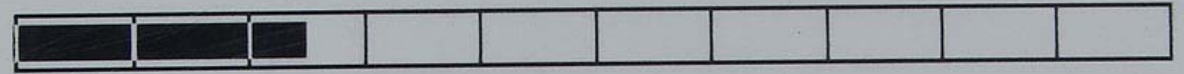
*Information provided pursuant to California Title 13 CCR 1965*

# In-Use Smog Index Examples

## SMOG EMISSIONS INFORMATION

The Smog Index of this vehicle is.....: 0.50

V



0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0

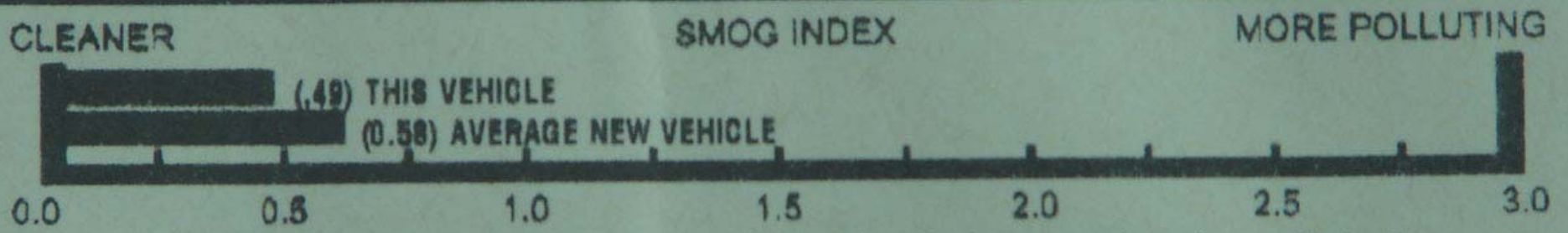
A

The Smog Index of the average new vehicle is: 0.40

<< CLEANER

MORE POLLUTING >>

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# Proposed Amendments

- ◆ Revise “Smog Index”
  - Replace current ratio-based scores with 1 - 10 scale based on LEV II certification levels
- ◆ Add global warming index
  - Determine global warming scores based on “Motor Vehicle Greenhouse Gas” certification



# Proposed Amendments Cont.

- ◆ Require prescriptive label
  - Use green border
  - 6" wide x 4" high size
  - Score specific vehicle relative to:
    - Cleanest available
    - Average
- ◆ Effective October 1, 2008
  - or sooner (optional)



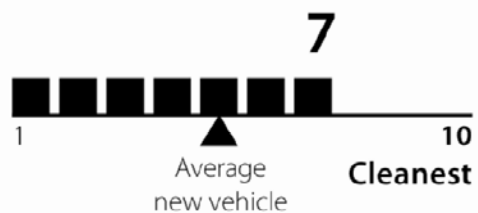


# Proposed Label

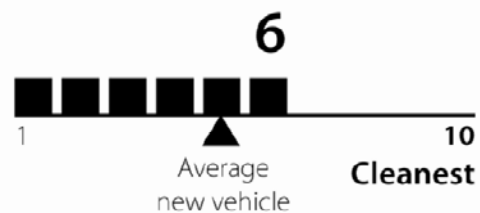
## Environmental Performance

Protect the environment, choose vehicles with **higher scores**:

### Global Warming Score



### Smog Score



Vehicle emissions are a primary contributor to global warming and smog. Scores are determined by the California Air Resources Board based on this vehicle's measured emissions. Please visit [www.DriveClean.ca.gov](http://www.DriveClean.ca.gov) for more information.

California Environmental Protection Agency  
AIR RESOURCES BOARD

# Proposed Smog Scores

California Emissions Certification – Federal Bin	NMOG + NOx (g/mile)	2009 Smog Score	Typical Vehicle
<b>ZEV</b> or Bin 1	0.0	<b>10</b>	BEV / FCV
<b>PZEV</b>	0.030	<b>9</b>	Prius / Focus
<b>SULEV</b> or Bin 2	0.030	<b>8</b>	Lexus GS 450h
Bin 3	0.085	<b>7</b>	
Bin 4	0.110	<b>6</b>	Chevy Tahoe
<b>ULEV</b>	0.125	<b>5</b>	Honda Pilot
<b>LEV</b> or Bin 5	0.160	<b>4</b>	Cadillac CTC
<b>LEV (option 1)</b> or Bin 6 and <b>SULEV (mdpv)</b>	0.190 – 0.200	<b>3</b>	
Bin 7	0.240	<b>2</b>	
<b>ULEV (mdpv)</b> or Bin 8a	0.325	<b>1</b>	Ford E250 Econoline

# Global Warming Index

- ◆ Uses AB 1493, Climate Change methodology
- ◆ Includes:
  - all GHGs ( $\text{CO}_2$ ,  $\text{CH}_4$ ,  $\text{N}_2\text{O}$ , A/C Refrigerant)
  - upstream  $\text{CO}_2$  emissions
- ◆ Represents a normal distribution



# Proposed Global Warming Scores

2009 Global Warming Score	CO <sub>2</sub> Equivalent (g/mile)	Typical Vehicle
10	Less than 200	Honda Civic Hybrid
9	200-239	Toyota Corolla
8	240-279	Ford Focus
7	280-319	Subaru Forester
6	320-359	BMW 525i
5	360-399	Honda Odyssey Van
4	400-439	Jaguar XJR Sedan
3	440-479	Ford F150 Pickup
2	480-519	Toyota Land cruiser
1	520 and up	Ford Expedition

# Review Period

- ◆ Requires periodic review and adjustment no later than 2012



# Economic Impact

- ◆ Two industry economic factors:
  - Size = \$20,000 annually or 1¢/vehicle
  - Color = \$225,000 annually or 11¢/vehicle
  - Total = \$245,000 annually or 12¢/vehicle
- ◆ Benefits
  - Elevate consumer awareness





# Outstanding Issues

- ◆ Lead time
  - October 1, 2008 effective date
- ◆ Label size
  - Incorporation into Monroney sticker
  - Visibility
- ◆ Harmonizing scores with U.S.EPA



# Summary of Staff Proposal

- ◆ Revise Smog Index
- ◆ Adopt Global Warming Index
- ◆ Adopt prescriptive label format

