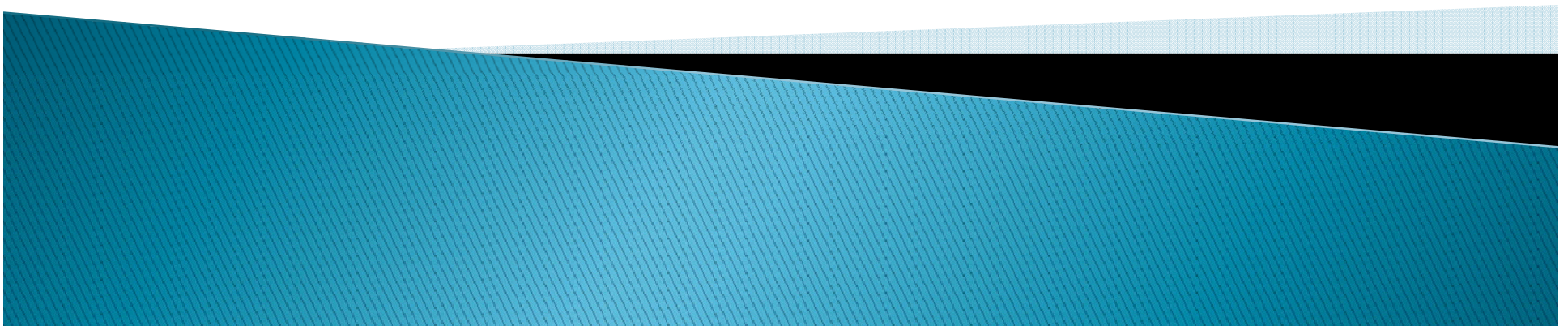


Agricultural Off-Road Farm Equipment Sub-Committee

2009-2010
Summary Report

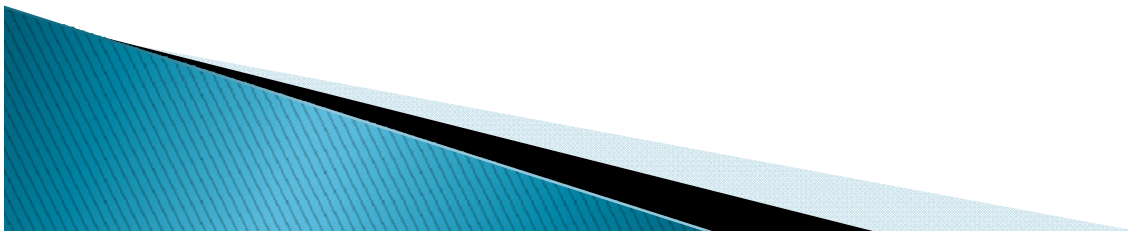


▶ Sub-Committee Members

- Bob Avant
- Gary Baise
- Cynthia Cory
- Manuel Cunha
- Roger Isom
- Richard McVaigh
- Chris Peterson
 - NRCS Liaisons – Johnnie Siliznoff and Jeff Schmidt

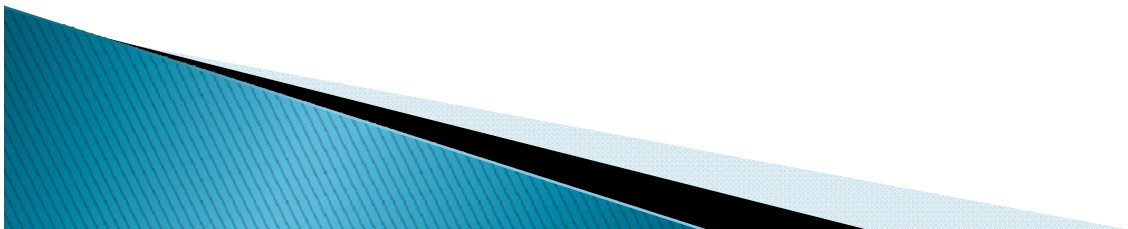


- ▶ Sub-Committee Teleconference
- ▶ Proposed Off-Road Equipment Rule
- ▶ On-Road Agricultural Truck Rule
- ▶ Equipment Replacement Program



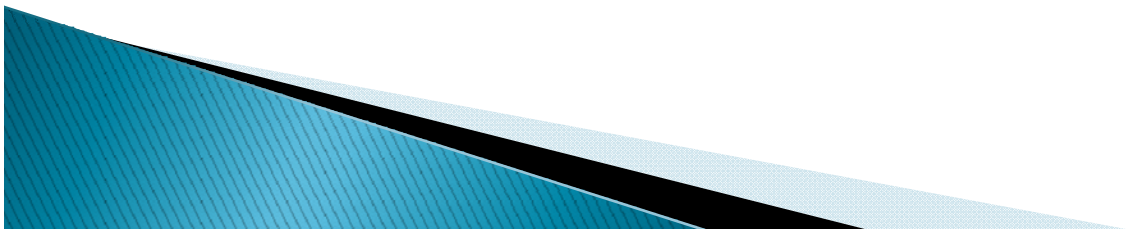
Sub-Committee Teleconference

- ▶ Tier Standards
- ▶ Implementation Timeline
 - 2014 Regulation
- ▶ New Technology
 - Timeline for Equipment Development (Tier Series)



Off-Road Equipment Rule

- ▶ Equipment Survey / Tractor Survey
- ▶ ARB data vs. actual data



Agricultural Truck Rule (2010)

- ▶ Definition

- ▶ Thresholds

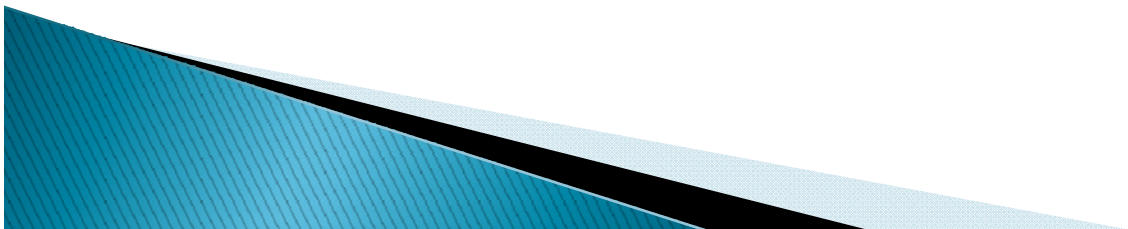
“*Limited-Mileage Agricultural Vehicle*” means until January 1, 2017, an agricultural vehicle that operates less than the miles specified below per calendar year, based on the model year of the installed engine:

(A) A pre-1996 model year engine that is operated fewer than 15,000 miles; or

(B) A 1996 through 2005 model year engine that is operated fewer than 20,000 miles; or

(C) A 2006 or newer model year engine that is operated fewer than 25,000 miles.

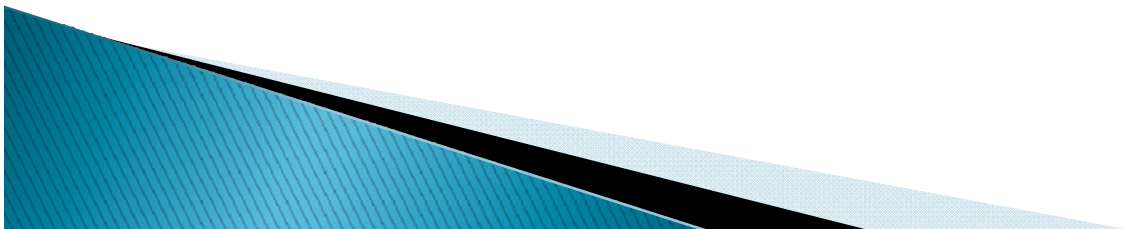
“*Low-Mileage Agricultural Vehicle*” means until January 1, 2023, an agricultural vehicle that operates less than 10,000 miles per calendar year each year



Engine Replacement Program

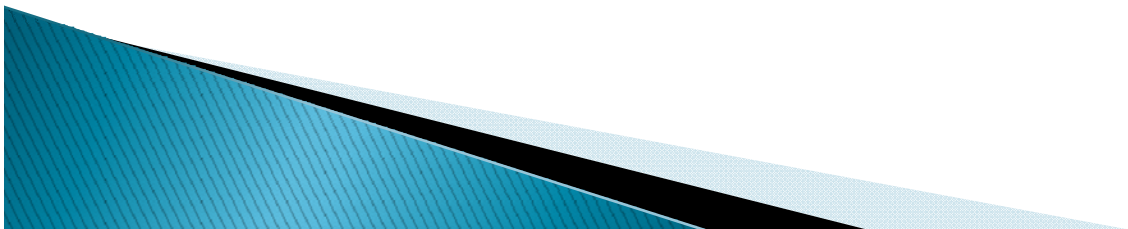
- ▶ CIG (b)

- ▶ Mobile Off-Road Agricultural Equipment – Equipment Replacement:
 - NRCS projects:
 - Total number of contracts: 812
 - Summertime NOX emissions reduced (tons/day): 4.514
 - SJVAPCD co-funded projects with NRCS:
 - Total number of contracts: 118
 - Summertime NOX emissions reduced (tons/day): 0.548



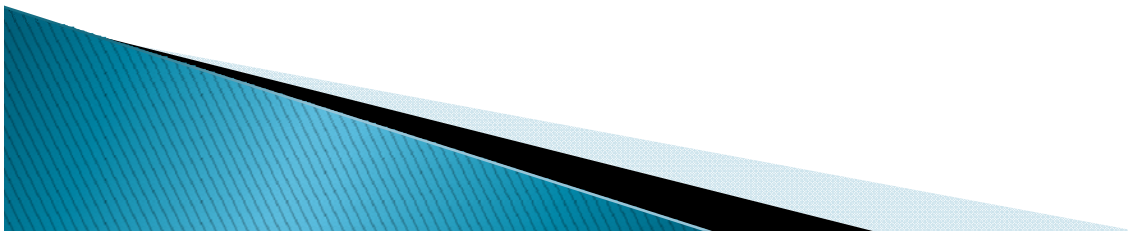
Engine Replacement Program

- ▶ San Joaquin Valley Air Pollution Control District
 - Helped Meet Black Box Goals
- ▶ Agricultural Irrigation Engines:
 - Total number of projects: 2,502
 - Total number of units: 5,826
 - Total funding: \$95,971,136.26
 - Emissions reductions achieved (tons):
 - NOX – 45,858
 - PM – 1,707
 - ROG – 2,094



Suggestion

- ▶ Development of National Standard for Farm Equipment





Self Propelled Agricultural Equipment (25 HP and higher) Questionnaire – Agricultural Producers

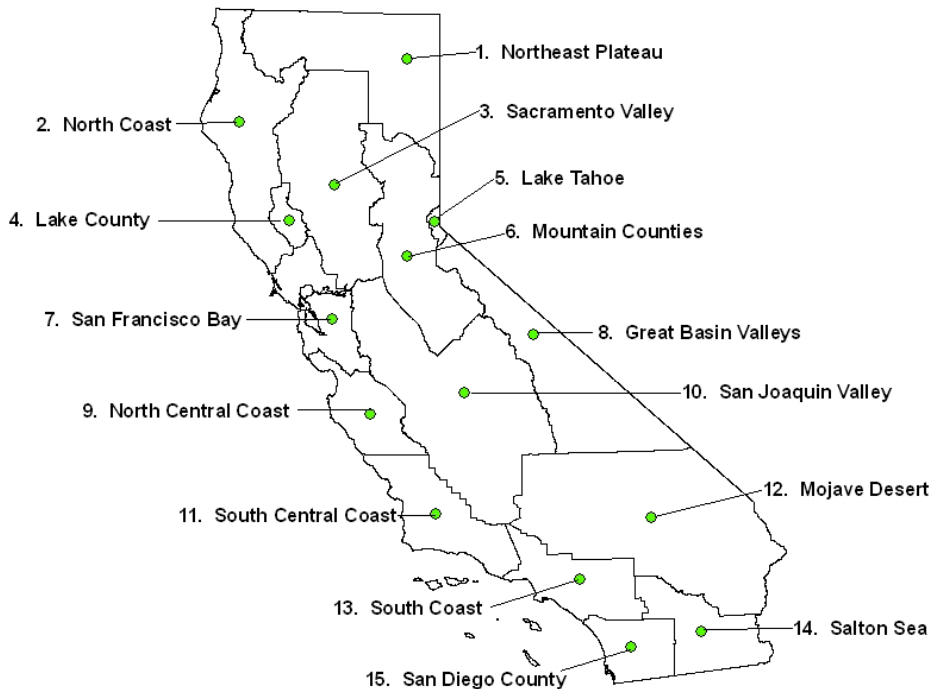
Overview

- Production agricultural associations in cooperation with the State of California are conducting a statewide survey to obtain an accurate inventory of self-propelled off-road equipment (25HP and higher) used in agricultural operations in California.
- **All individual survey results will be kept confidential.** There are approximately 4 questions in this survey and it should take about 20 minutes of your time depending on how much equipment you own. Please complete and return the survey even if you don't own any equipment.
- **Please complete this survey if you are an agricultural producer involved in crop, livestock, aquaculture or nursery production, including any custom operations done for others.** If your business is 100% custom operations only, then please complete the custom operator survey instead.

Section 1. Your agricultural operation.

1.1. In which regions do you operate (see map below). If you operate in more than one region please indicate the percentage of total acres in each region.

Region #	<input type="text"/>	Percentage	<input type="text"/>
Region #	<input type="text"/>	Percentage	<input type="text"/>
Region #	<input type="text"/>	Percentage	<input type="text"/>





Section 2. Commodity Information. Please do not report crops grown on land rented to others.

2.1. Please list all the commodities in production on your operation in 2008 using the examples provided as a guide. *If you had custom work done on your operation please indicate the percent of acres on which custom work was done. **Please indicate if double cropping occurred for any given commodity. For example, if you double cropped tomatoes on your 500 acre operation then you would put 500 acres for "amount in production" and then put a "Y" under "Did you double crop" to indicate that 500 acres of tomatoes were harvested twice.

				*What percent of each of these operations was performed by a custom operator in 2008? If you did not hire a custom operator in a given application, please leave blank.					
Commodity	Amount in Production	Units (acres, head, sq ft under glass, acres in open, pounds)	**Did you double crop? (Y/N)	Land Prep	Harvest	Chemical Application	Annual Pruning and Trimming	Other Custom Operations	If other please indicate type of operation.
Tomatoes	500	acres	Y	50%	100%				

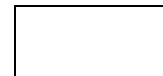


Section 3. 2008 Equipment Inventory

3.1. Please complete the table below using the examples provided as a guide. If you need additional space please use the tables at the end of the survey. Refer to the table on the next page for the type of equipment to report. ****If you are a grower AND ALSO a custom operator please report the total hours your equipment operated (including hours on your own operation and hours of custom work done on another operation). Then indicate what percent of that activity was from custom work done on another operation.**

Off-Road Equipment (25 HP and higher)	Owned (O) or Leased (L) for more than one year	Manufacturer /Model	Year	Engine HP	Fuel Type – Diesel (D) Gasoline (G) Propane (P)	Hours per year (hours/year)	OR	Annual fuel consumption (gallons/year)	% Hours that was Custom**
ag tractor	O	Case 2394	1988	200	D	300			10%
skid steer	L	Caterpillar 246	2007	75	D			400	30%

If you need additional space please use the blank tables at the end of this survey.



Self propelled equipment (25 HP or higher)	Example
Agricultural Tractors	
Combine harvesters	grain/field crops
Forage & Silage Harvesters	
Cotton pickers	
Nut harvester	almond harvester, sweeper, shaker, etc
Other harvesters	grape harvesters, pistachio harvester
Balers (self propelled)	
Bale wagons (self propelled)	
Swathers/Windrowers/Hay Conditioners (self propelled)	
Hay squeeze/ Stack retriever	
Sprayers/spray rigs (self propelled)	
Scrapers	land leveling equipment
Skid Steers/Front wheel loaders/backhoes/other construction used in Ag	
Forklifts	
ATV (used exclusively for agricultural operations)	
Other Agricultural Equipment not listed above	

3.2. If you are a grower AND ALSO a custom operator please indicate how many acres in 2008 your equipment operated on for custom work done on other operations. Please estimate the number of acres by type of custom operation and crop.

Commodity	Land Prep (acres)	Harvest (acres)	Chemical Application (acres)	Annual Pruning and Trimming (acres)	Other Custom Operations (acres)	If other please indicate type of operation.

Thank you. Your assistance is greatly appreciated.



Off-Road Equipment	Owned (O) Leased (L)	Manufacturer /Model	Year	Engine HP	Fuel Type – Diesel (D) Gasoline (G) Propane (P)	Hours per year (hours/year)	OR	Annual fuel consumption (gallons/year)	% Hours that was Custom**

“Agricultural Operations” means:

(A) The activity of growing or harvesting crops for the primary purpose of making a profit or providing a livelihood including any horticultural, viticultural, aquacultural, forestry, dairy, livestock, poultry, bee or farm product. Raising plants at nurseries that sell exclusively retail are not included, or

(B) The cutting or removing of timber, other solid wood products, including Christmas trees, and biomass from forestlands for commercial purposes. The services also include all the work incidental thereto, including but not limited to, construction and maintenance of roads, fuel breaks, firebreaks, stream crossings, landings, skid trails, beds for falling trees, fire hazard abatement, and site preparation that involves disturbance of soil or burning of vegetation following forest removal activities. Forest operations include the cutting or removal of trees, tops, limbs and or brush which is processed into lumber and other wood products, and or for landscaping materials, or biomass for electrical power generation. Forest operations do not include conversion of forestlands to other land uses such as residential or commercial developments.

“Agricultural Vehicle” means one of the following types of vehicles;

(A) A truck, or a truck-tractor and trailer combination, that is required to display a hazardous material placard during delivery and exclusively delivers fertilizer or crop protection chemicals that require placard identification for use in agricultural operations from a distribution center to a farm and back, and is owned by a business holding a valid fertilizer or pest control license.

1. Owners of such vehicles must hold;

a. a valid pest control dealer license issued by the California Department of Pesticide Regulation as required under Food & 4 Agricultural Code, Division 6, Chapter 7, Article 6, Section 12101 or,

b. a valid fertilizing materials license issued by the California Department of Food and Agriculture as required under Food & Agricultural Code, Division 7, Chapter 5, Article 4, Section 14591(a)

and,

2. Such vehicles must exclusively carry products defined under one of the following, and be required to display an appropriate placard, as required by the United States Department of Transportation:

- a. 49 CFR, CHAPTER 1, PART 173.127 (Division 5.1), or
- b. 49 CFR, CHAPTER 1, PART 173.132 (Division 6.1), or
- c. 49 CFR, CHAPTER 1, PART 173.115 Class 2, (Division 2.1, 2.2, and 2.3),
- d. 49 CFR, CHAPTER 1, PART 173.136 Class 8,
- e. 49 CFR, CHAPTER 1, PART 173.140 Class 9.

(B) A vehicle, or truck-tractor and trailer combination, owned by a farming business and used exclusively in agricultural operations, or owned by a beekeeping business used exclusively to transport their own bees. This includes supply trucks, cattle trucks, and other vehicles, but excludes vehicles that do not directly support farming operations such as personal use vehicles, vehicles rented or leased out, or vehicles used in a transportation business.

(C) A truck, or truck-tractor and trailer combination, designed for in-field operations that is exclusively engaged in agricultural operations on the farm. Examples include truck configurations designed to spread manure, dispense hay, and dispense freestall bedding. It also includes water trucks and trucks designed or modified to be used exclusively for the dusting, spraying, fertilizing, or seeding of crops. Except as allowed in (A) above, trucks, or truck-tractor and trailer combinations that transport any products, materials, personnel, or equipment are excluded.

(D) A truck, or truck-tractor and trailer combination, that exclusively transports any horticultural, viticultural, aquacultural, forestry, dairy, livestock, poultry, bee, or farm products such as raw, unprocessed crops, livestock, fish, or fowl from the farm to the first point of processing after harvest. Also included are trucks that are used to harvest crops for silage and trucks that transport unprocessed agricultural materials from forest or farm to a biomass facility.