



# Farm Bill Conservation Programs

Alan Forkey

Natural Resources Conservation Service





# Farm Bill Programs - Financial Assistance



# Wetland Easements

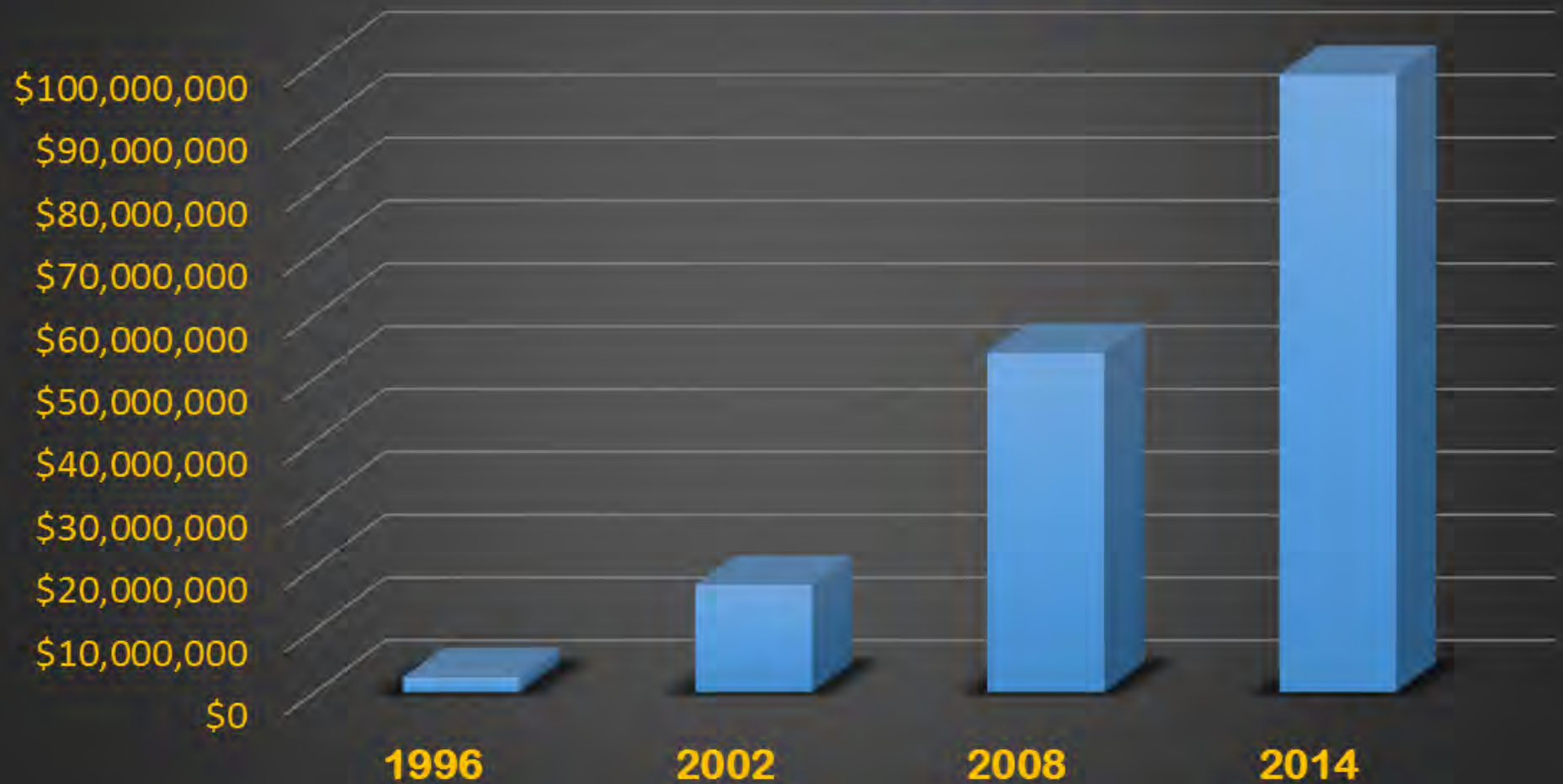




# EQIP Statutory Requirements

- ❑ Limited to agricultural producers and non-industrial forestland operators.
- ❑ Must be in compliance with HEL/WC compliance provisions of the 1985 Farm Bill.
- ❑ Adjusted Gross Income Limitation – Cannot exceed \$900K in farm + non-farm income.
- ❑ Applications must be prioritized according to the expected environmental benefits (screening/ranking).
- ❑ Applications must be evaluated based on common resource concerns and land uses.
- ❑ Help agricultural producers comply with environmental regulations.
- ❑ Payments cannot exceed a portion of the projected total cost of implementing a practice, typically 50 – 75%.

## California EQIP Allocations Past 4 Farm Bills 1996 - 2014



# Emerging Resource Concerns



Pollinators



Air Quality NOx



Declining Species



Air Quality – VOC's



Forest Health/Fire  
Recovery



Organic Farming

## 90 Separate Fund Pools in 2017

- Each with their own description of priority resource concerns and list of approved practices to address those resource concerns.

- Each with separate evaluation and ranking criteria.

- Organic (2)

Water Quality (2)

- Tribal (4)

Tree Mortality

- Seasonal High Tunnels

Catastrophic Wildfire

- On-Farm Energy

SW Willow Flycatcher

- National Air Quality

Cons. Activity Plans

- California Air Quality

Regional Fund Pools (50)



# Prioritizing Soil Health

- Cropland ranking and evaluation criteria focus on increasing the Soil Condition Index rating and/or reducing the Soil Tillage Intensity Rating.

State Category Four Ranking Criteria – SOIL QUALITY DEGRADATION: Organic Matter Depletion (Select “Yes” to All Applicable Answers)	
4. a. Conservation treatment in the EQIP schedule of operations results in a STIR value reduced from a conventional tillage value to 20 or less. (If 'Yes' to 4.a. then 4.b. must be 'No').	40
4. b. Conservation treatment in the EQIP schedule of operations results in a STIR value is reduced from a conventional tillage value to 80 or less. (If 'Yes' to 4.b. then 4.c. must be 'No').	35
4. c. Conservation treatment in the EQIP schedule of operations results in SCl increased from a negative value to a positive value.	30
4. d. Conservation treatment in the EQIP schedule of operations includes cover crops during times in the crop rotation that are seasonally fallowed, or when a cash crop is normally planted.	30



# Prioritizing Soil Health

- Rangeland/Pastureland ranking criteria focus on streambank erosion, classic gully erosion and soil compaction.

Local Category Two - SOIL EROSION: Classic Gullies (Select "Yes," if applicable)	
2. a. Conservation treatment in the EQIP schedule of operations includes structural or vegetative practices to stabilize a classic gully and prevent further headcut advancement.	40
Local Category Three - SOIL EROSION: Excessive Bank Erosion from Streams, Shorelines or Water Conveyance Channels (Select "Yes," if applicable)	
3. a. Conservation treatment in the EQIP schedule of operations will reduce soil loss on channel banks where livestock are impacting streambank stability and integrity to minimize or eliminate sediment delivery to a surface water body; treatment can include structural or vegetative practices such as filter strips, riparian herbaceous cover and/or riparian forest buffer.	30
Local Category Four - SOIL EROSION: Excessive Bank Erosion from Streams, Shorelines or Water Conveyance Channels (Select "Yes," if applicable)	
4. a. Conservation treatment in the EQIP schedule of operations will restrict livestock access to channel banks in order to reduce soil loss where livestock are impacting streambank stability and causing sediment delivery to a surface water body.	10
Local Category Five - SOIL QUALITY DEGRADATION: Compaction (Select "Yes," if applicable)	
5. a. Conservation treatment in the EQIP schedule of operations results in reducing compaction due to livestock traffic and heavy use by implementing practices to move livestock away from this site and/or mechanical or vegetative practices to reduce compaction. Soil compaction is evaluated by penetrometer, pin flag test, or evaluation the soil for observation of compaction layer/platy structure in the top 8 inches of the soil surface.	15

# Climate Change Building Blocks

## Organic Matter Depletion

- There is a correlation between soil organic matter and the ability of the soil to sequester carbon.
- Practices with positive impacts on OM depletion:
  - Conservation Tillage (reduced till and no till systems) (Ac)
  - Cover Crops (Ac)
  - Conservation Crop Rotation (Ac)
  - Filter Strips (Ac)
  - Forage & Biomass Plantings (Ac)
  - Grassed Waterways (Ac)
  - Conservation Cover (Ac)
  - Range Planting (Ac)
  - Prescribed Grazing (Ac)
  - Tree & Shrub Establishment (Ac)



# Practices Funded 2014 - 2016

## Upward Trend

- Prescribed Grazing
- Tree & Shrub Establishment
- Hedgerows
- Shelterbelts/Windbreaks
- Mulching
- Forage & Biomass Plantings

## Downward or Flat Trend

- Crop Rotation
- Cover Crops
- Reduced Till or No Till
- Filter Strips
- Field Borders

# EQIP Payments

- Incentive payments are made to encourage producers to apply practices that they otherwise would not consider, with the expectation that they will adopt and maintain the practice as part of their operation.
- Most structural and vegetative practices are a 1-time payment after the practice is implemented
- Management practices can be paid for more than 1 year.
  - Conservation Tillage (reduced till and no till systems): 3 years
  - Cover Crops: 5 years
  - Conservation Crop Rotation: 3 years
  - Prescribed Grazing: 3 years



# 2017 EQIP Applications

- EQIP applications are accepted on a continuous basis.
- In FY17, eligible applications will be processed as they are received with funding decisions made on the following dates:
  - January 13, 2017
  - March 17, 2017
  - May 26, 2017
- Additional funding decision dates will be added if necessary.

# Natural Resources Conservation Service

## Service Areas and Office Locations



Source of Data:  
USDA - Natural Resources Conservation Service



Map prepared using ArcGIS  
by GIS Services, NRCS, Davis, CA  
Map ID: ca-nrcs 11/28/2011





# Questions?

[\*\*http://www.ca.nrcs.usda.gov/\*\*](http://www.ca.nrcs.usda.gov/)

[\*\*http://www.ca.nrcs.usda.gov/programs/\*\*](http://www.ca.nrcs.usda.gov/programs/)

[\*\*https://offices.sc.egov.usda.gov/locator/app?state=ca\*\*](https://offices.sc.egov.usda.gov/locator/app?state=ca)



# HEALTHY SOILS INITIATIVE AND INCENTIVES PROGRAM

*CALCAN SUMMIT  
FEBRUARY 28, 2017  
DAVIS, CA*

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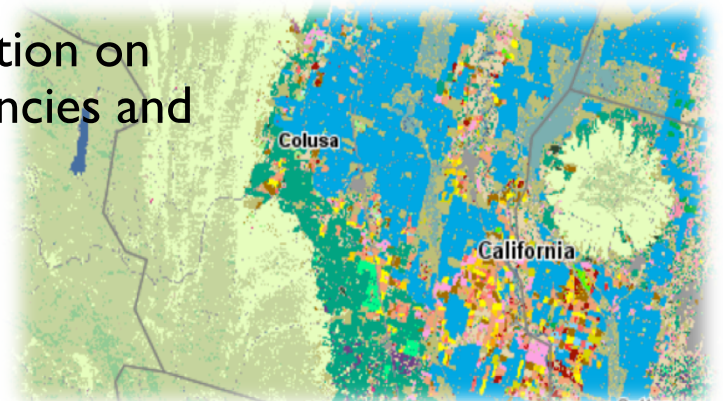
# PRESENTATION OUTLINE

- Healthy Soils Initiative
- Healthy Soils Program
  - Objective & Funding
  - Program Development Process
  - Draft program framework including:
    - Current status
    - Allocation of funds to incentive and demonstration projects, proposed award amounts
    - Potential management practices for incentives program
    - Timeline



# HEALTHY SOILS INITIATIVE

- More than 400 agricultural commodities in California, including unique specialty crops.
- California remained the No. 1 state in cash farm receipts in 2015, with \$47 billion in revenue from 76,400 farms and ranchers (#1 for more than 50 years).
- Some of the most fertile and diverse agricultural soils: soils are fundamental plant growing medium.
- 2015: United Nations declared International Year of Soils.
- Meeting with Governor's Office and administration on initiative; interagency meetings with several agencies and departments.



<https://www.cdfa.ca.gov/oefi/healthysoils/HSInitiative.html>

Image Source: USDA Cropscape - Cropland Data Layer

# ACTIONS FOR THE HEALTHY SOILS INITIATIVE: INTERAGENCY AND STATE-FEDERAL PARTNERSHIPS

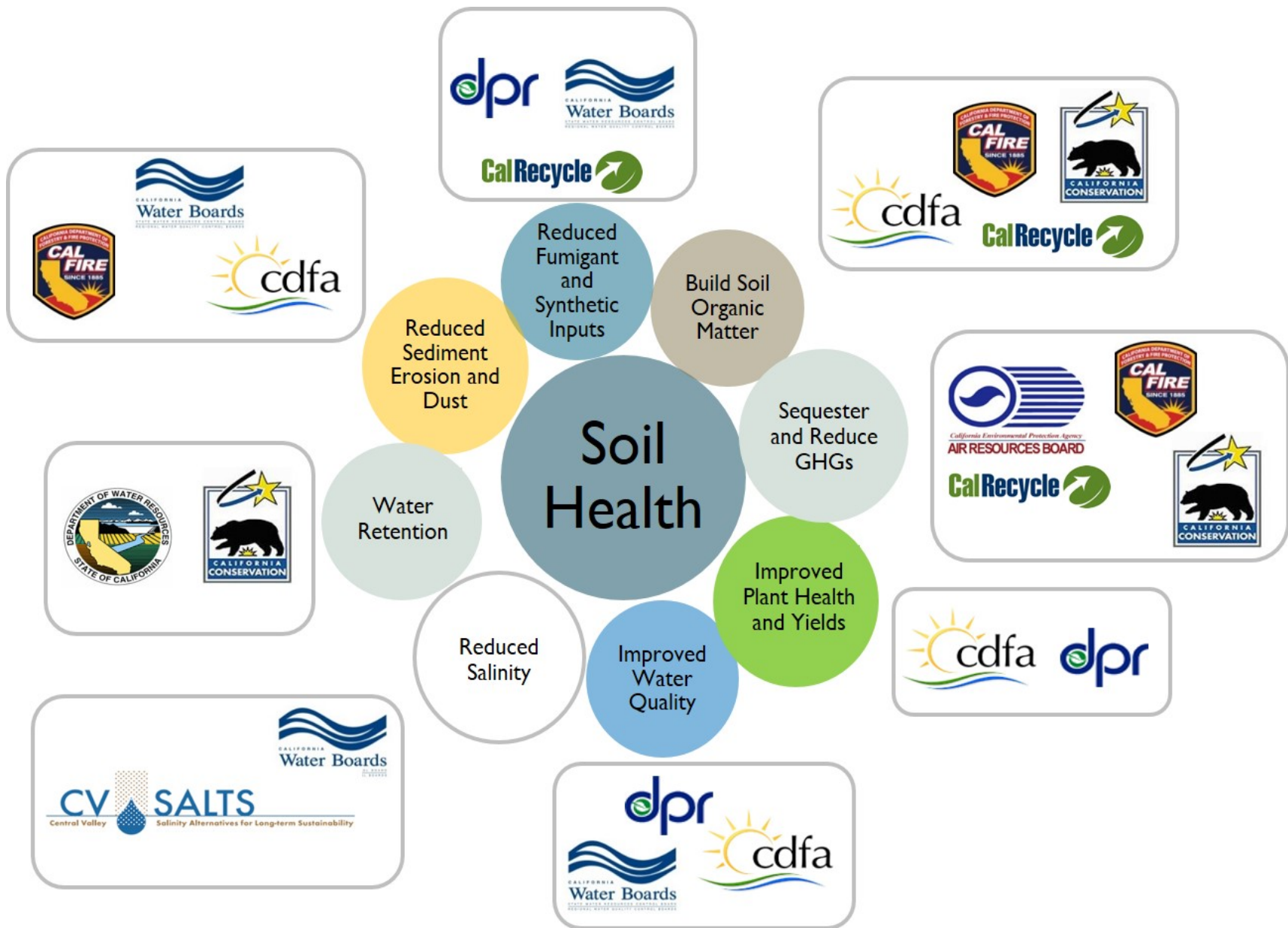
## **Actions:**

- Protect and restore soil organic matter in California's soils.
- Identify sustainable and integrated financing opportunities to facilitate healthy soils.
- Provide for research, education and technical support to facilitate healthy soils.
- Increase governmental efficiencies to enhance soil health on public and private lands.
- Promote interagency coordination and collaboration to support soils and related state goals.

## **Working with USDA-NRCS:**

- USDA-NRCS provides funding through the Environmental Quality Incentives Program to support conservation practices including soil health.
  - Comet-Planner Tool: <http://www.comet-planner.com/>
- Joint USDA-NRCS and CDFA Summit: Building Partnerships on Healthy Soil in Sacramento, CA on January 11, 2017.

<https://www.youtube.com/watch?v=vPy5C5Jlqjg&feature=youtu.be&rel=0>



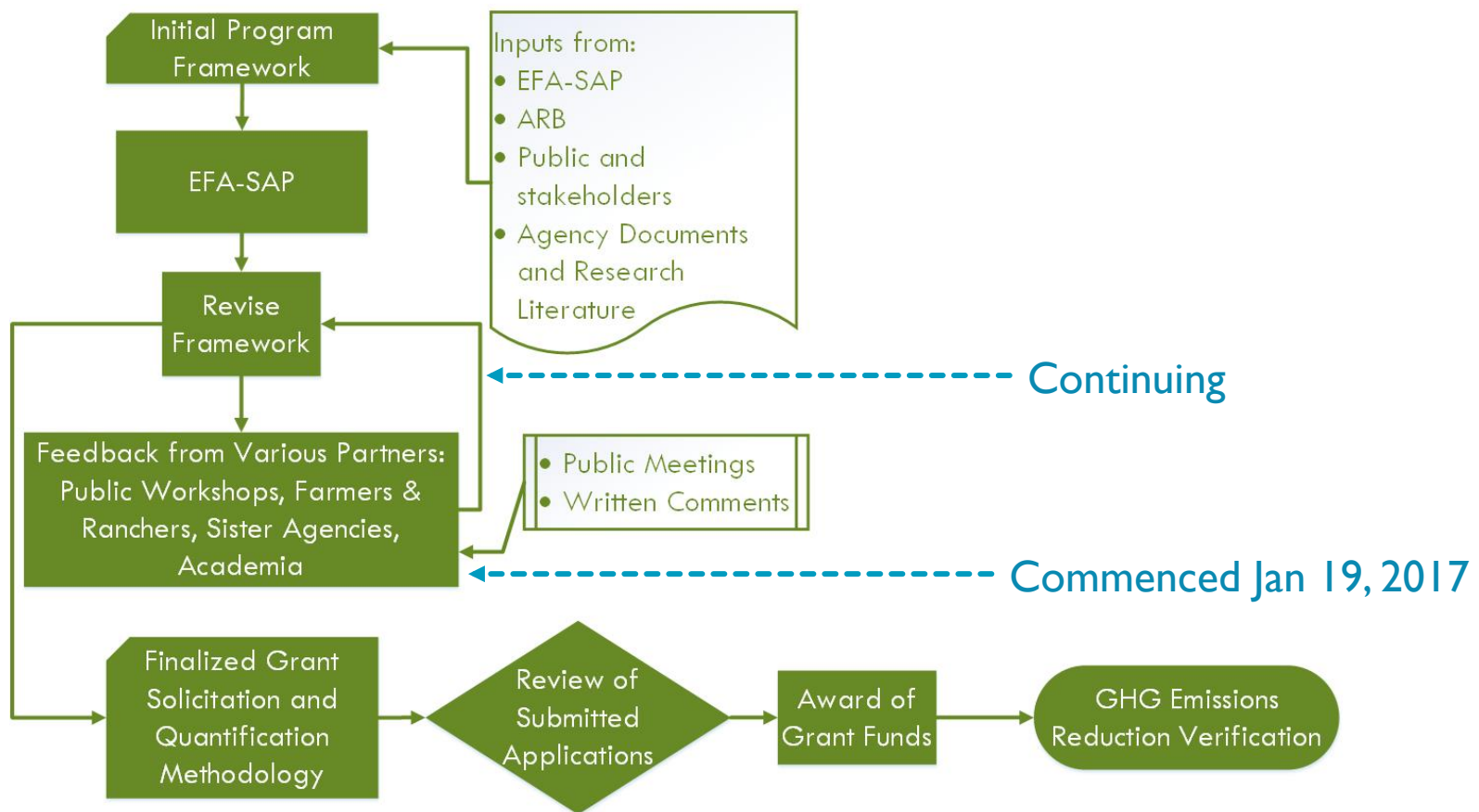


# HEALTHY SOILS PROGRAM: OBJECTIVE AND FUNDING

- *Objective:* To build soil carbon and reduce agricultural GHG emissions through incentives.
- CDFA appropriated \$7.5 million in FY 2016-17 to develop and administer a new incentive and demonstration program on the CA Healthy Soils Initiative from the Greenhouse Gas Reduction Fund.
- Funds must be encumbered by June 30, 2018 and expended/liquidated by June 30, 2020 (AB 1613, Section 13).
- Funds allocation:
  - Incentive projects (50%; \$3.75M)
  - Demonstration projects (40%; \$3M).
  - Remainder funds: administrative cost (10%; \$0.75M)

<https://www.cdfa.ca.gov/oefi/healthysoils/>

# PROGRAM DEVELOPMENT PROCESS



Comments due to [cdfa.oefi@cdfa.ca.gov](mailto:cdfa.oefi@cdfa.ca.gov) by March 1, 2017

## FRAMEWORK PROPOSED FOR DISCUSSION: INCENTIVES PROGRAM - ELIGIBILITY

- Eligibility: California farmers and ranchers. Projects must be located in CA and result in GHG reductions from agricultural practices for a specified time period, quantifiable using a method determined by ARB.
- Projects funded under this solicitation to use one or more of the eligible **USDA-NRCS Conservation Practice Standards** identified in the grant solicitation, and/or compost application.
- An agricultural operation to only submit one application using a unique tax identification number per round of funding to allow wide distribution of funds.
- Proposed award amount: Maximum \$25,000 per project (approx. 150 projects supported).

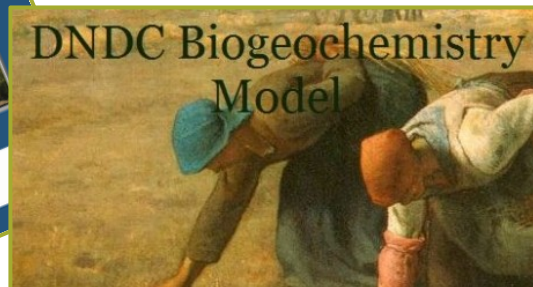


# MANAGEMENT PRACTICES TENTATIVELY INCLUDED FOR INCENTIVES

- Improved Nutrient Management (590)
- Mulching (484)
- No-till (329)
- Reduced-till (345)
- Cover crops (340)
- Cropland Compost Application (Not a separate NRCS Practice)
- Grassland Compost Application (Not an NRCS Practice)
- Herbaceous Cover:
  - Herbaceous Wind Barriers (603)
  - Vegetative Barriers (601)
  - Riparian Herbaceous Cover (390)
  - Contour Buffer Strips (332)
  - Field Border (386)
  - Filter Strip (393)
- Woody Cover:
  - Windbreak/ shelterbelt establishment/renovation (380)
  - Riparian Forest Buffer (391)
  - Hedgerow Planting (422)
  - Silvopasture (381)

# QUANTIFICATION METHODOLOGY FOR GHG EMISSION REDUCTIONS

- Per SB 862, the California Air Resources Board (ARB) is required to develop quantification methods (QM) for agencies receiving Greenhouse Gas Reduction Fund (GGRF) appropriations.
- ARB, in collaboration with CDFA, is developing the QM Tool.
- The QM Tool will have a public comment period.



**COMET-PLANNER** Carbon and greenhouse gas evaluation for NRCS conservation practice planning

[Click to View Introduction Video](#)

Evaluate potential carbon sequestration and greenhouse gas reductions from adopting NRCS conservation practices

NRCS Conservation Practices included in COMET-Planner are only those that have been identified as having greenhouse gas mitigation and/or carbon sequestration benefits on farms and ranches. This list of conservation practices is based on the qualitative greenhouse benefits ranking of practices prepared by NRCS.

Project Name:

State:

County:

**NRCS Conservation Practices - Select Your Practice(s)**

Name CPS (Conservation Practice Standard Number)
+ Cropland Management (9 Items)
+ Cropland to Herbaceous Cover (10 Items)
+ Cropland to Woody Cover (7 Items)
+ Grazing Lands (3 Items)
+ Restoration of Disturbed Lands (5 Items)

Approximate Carbon Sequestration and Greenhouse Gas Emission Reductions\*  
(Boxes CO<sub>2</sub> equivalent per year)

Enter Acreage	Carbon Dioxide (CO <sub>2</sub> )	Nitrous Oxide (N <sub>2</sub> O)	Methane (CH <sub>4</sub> )	Total CO <sub>2</sub> Equivalent
NRCS Conservation Practices (Click Practice Name for Documentation)				
Total	0.00	0.00	0.00	0.00

## FRAMEWORK PROPOSED FOR DISCUSSION: INCENTIVES PROGRAM – APPLICATION

- Applicant would provide information including but not limited to:
  - Description of the proposed project.
  - Estimation of greenhouse gas (GHG) reductions including baseline estimates and supporting documentation, life of the project and how GHG emission reductions will continue to occur over the required timeframe.
- CDFA and ARB will provide additional guidance for ongoing tracking and reporting of net GHG benefits from project activities.
- CDFA will generate a list of co-benefits to be given additional consideration during application review.
- Benefits to disadvantaged communities (DACs) – based on ARB guidance.



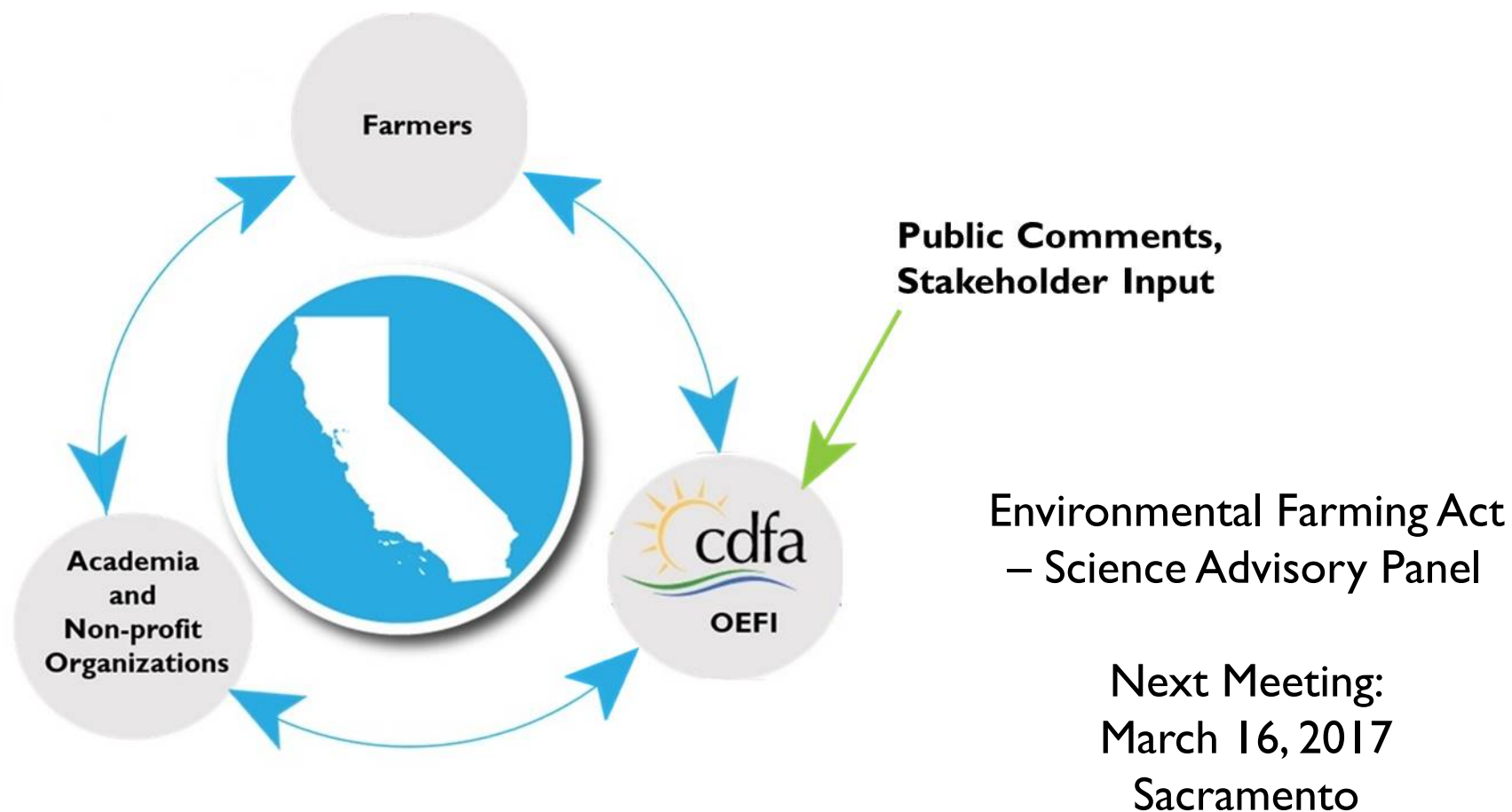
## FRAMEWORK PROPOSED FOR DISCUSSION: INCENTIVES PROGRAM – TENTATIVE TIMELINE

ITEM	ESTIMATED DATES
Program framework development including Quantification Methodology	Nov 2016 – Apr 2017
Public Stakeholder Meetings for Program Design Feedback	Jan 2017 – Apr 2017
Grant solicitation released	May 2017
Applications proposals due	Jun 2017
Proposal evaluation (Technical Review)	Jun – Sep 2017
Announce grant awardees	Sep 2017
Project Implementation to begin	Oct 2017

## FRAMEWORK PROPOSED FOR DISCUSSION: DEMONSTRATION PROJECTS

- *Objective:* Provide funding for projects that achieve net GHG benefits from soil carbon sequestration or GHG emissions reduction in the field.
- Individual grant amount: Proposed maximum \$250,000 per project (approx. 12 projects).
- Eligibility:
  - Projects *must* have field/on-farm component with quantifiable GHG emission reductions
  - Partnerships: Ag Operations/Industry Groups + Academia and/or Non-profit organizations and/or RCDs
  - Outreach and education component (e.g. Field Day) required.
  - In finalized grant solicitations, CDFA and ARB will provide additional guidance for ongoing tracking and reporting of net GHG benefits from project activities

# PARTNERSHIPS FOR SOIL HEALTH THROUGH PROPOSED INCENTIVES PROGRAM



# PROGRAM CONTACTS

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# California's Organics Policy Conundrum

Challenges to Meeting New Policy Mandates  
For Organic Materials Management

CalCAN Summit  
Davis, California

**Neil Edgar**

***Executive Director , California Compost Coalition***

***February 28, 2017***

# Overview

- ❑ Introduction
- ❑ Policy Drivers
- ❑ Organic Resource Market Challenges
- ❑ Regulatory Challenges
  - ❑ Land, Water, & Air Issues
- ❑ Economic Incentives
- ❑ Wrap Up

# Introduction



[californiacompostcoalition.org](http://californiacompostcoalition.org)

- ? a registered Lobbying Coalition created in 2002 by a group of compost operators in response to demands for increased recycling of organic materials and production of clean compost.
- ? represents member organic material recyclers and compost operators with a unified voice on many issues: product safety and standards, government regulations, environmental planning, trade, and marketing.
- ? dedicated to preventing the landfilling of organic resource materials and “closing the loop” by promoting their highest and best use.



# Policy Drivers

## **AB 939 (1989) – The Integrated Waste Management Act**

- ☐ Local Mandate for Landfill Diversion

## **AB 32 – Global Warming Solutions Act of 2006**

- ☐ Landfill Methane Emissions Reduction
  - ☐ Largest man-made source of methane

## **AB 341 (2011)**

- ☐ Statewide Goal for 75% Recycling or Composting by 2020
- ☐ 10 million tons of landfilled organics targeted

## **AB 1826 (2014)**

- ☐ Mandatory Commercial Organics Diversion
  - ☐ Begins April 2016, phased in until 2020

## **AB 1594 (2014)**

- ☐ Green Waste – Landfill Alternative Daily Cover
  - ☐ Diversion credit phased out by 2020

## **SB 605 (2014)**

- ☐ Short-lived Climate Pollutants
  - ☐ Subsequent CARB report targets 90% reduction in landfilling of organics by 2025
  - ☐ Every ton of food diverted from landfill to composting or digestion, GHG reduced by .69-1.04 tons of CO<sub>2</sub>e



# Policy Drivers

## **GHG Reduction Funding (2014)**

- ❓ Cap and Trade Auctions
- ❓ CalRecycle Organics Grant Program

## **Healthy Soils Initiative (2015)**

### **SB 1383 (2016)**

- ❓ Short-lived Climate Pollutants
  - ❓ Sets statutory standard to target 75% reduction in landfilling of organics by 2025

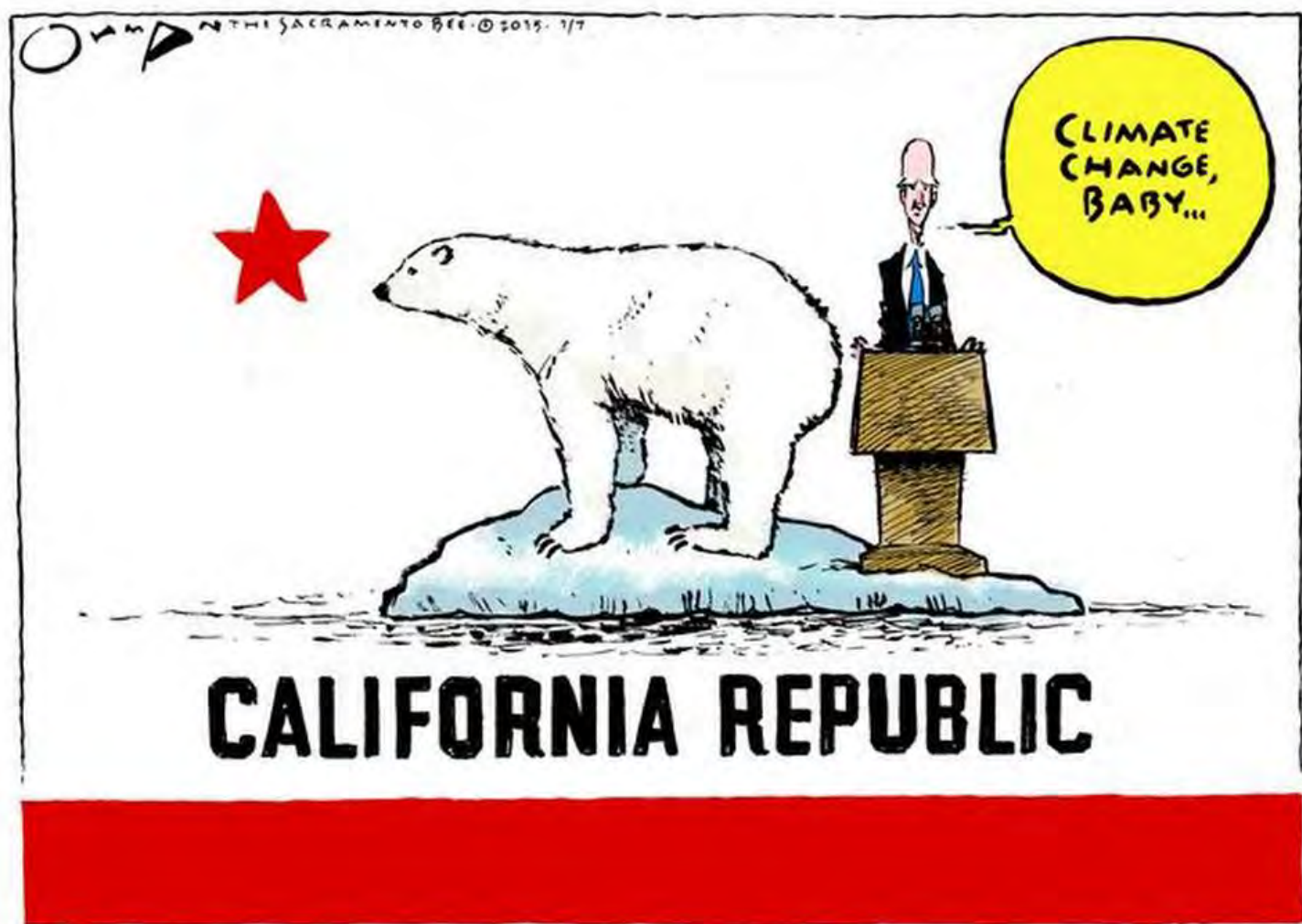
### **SB 32 (2016)**

- ❓ Establishes statutory authority to extend ARB climate change programs beyond 2020

### **AB 1613 (2016)**

- ❓ Budget trailer bill allocating \$40 million to CalRecycle to stimulate waste diversion projects which reduce GHG emissions

# Policy Drivers






# Policy Drivers



Organics Legislation and Timeline											
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030
AB 341 MCR	Starting in 2012, commercial generators with 4 cyd/week of MSW must have mandatory recycling program - with a focus on fiber and dry recyclables.				Goal: 75% statewide recycling rate						
AB 1826 MORe	Commercial generators w/ 8 cubic yards of organic waste per week.	Commercial generators w/ 4 cubic yards of organic waste per week.		Commercial generators w/ 4 cubic yards of MSW per week.	Commercial generators w/ 2 cubic yards of MSW per week, if 50% of all organics are not diverted by 2020 CalRecycle to conduct waste characterization study in 2018 with a 2019 determination.						
AB 1594 ADC			Jurisdictions submit green waste ADC plans.		No diversion credit for green waste ADC.						
AB 876 CAPACITY		County submits 15 year organics processing capacity each year.	Annual report update on capacity and AB 1826.			Annual report update on capacity.					Identify 15 years of capacity to 2030.
SB 498 AB 901 AB1103 REPORTING	SB 498: Wood chips to bioenergy are reported.	CalRecycle to adopt AB 901 regulations on diversion reporting system.	Food waste, compost and wood commodities are reported each year.								
SB 1383 METHANE MITIGATION		CalRecycle to develop regulations in 2017.	CalRecycle to adopt regulations in 2018.	Assessment of the compost infrastructure. 50% reduction of all organics disposal (from 2014 base year.)		Regulations become effective.			Statewide penalties for non-compliance.	75% reduction of all organics disposal (from 2014 base year.)	
AB 1045 INFRA- STRUCTURE	CAL-EPA to promote compost use, assess progress and coordinate regulations.	CAL-EPA to post recommended actions.	Quarterly state meetings, annual public meeting, and annual CAL-EPA update of recommendations.								

# Policy Drivers: The Path Forward

## **Compost Infrastructure Development**

-  Need to double current capacity to manage **15 Million tons** of organic materials by 2025.
-  CalRecycle has identified the need for a minimum \$100 million in incentive funding over each of the next 5 years to stimulate infrastructure development, estimated to cost **\$3 Billion** over the next 5-8 years.
-  Develop State Compost Infrastructure Task Force to address funding, market development, and permit streamlining.

## **Compost Market Development**

-  Enforcement and expansion of existing state agency compost purchase mandates to include local governments, other state agencies, and broader organic materials categories.
-  **Stimulate agricultural markets** – particularly in mid- and lower-value crops



# Organic Resource Market Challenges

- ❑ MSW - LANDFILL, COMPOST, ANAEROBIC DIGESTION
  - ❑ Yard Waste – DIRECT LAND APPLICATION
  - ❑ Wood Waste – BIOMASS PLANTS
  - ❑ Food Waste – ANIMAL FEED
    - ❑ F.O.G. – BIODIESEL, BIOENERGY & BIOFUELS
- ❑ Biosolids - WWTP
- ❑ Agricultural Wastes
  - ❑ Crop Residuals – OPEN BURNING, LAND APPLICATION, BIOMASS PLANTS
  - ❑ Food Processing Wastes - FARMERS
  - ❑ Manures – ON FARM CO-DIGESTION
  - ❑ Meat Processing Wastes - RENDERERS
  - ❑ Livestock Mortalities - RENDERERS
- ❑ THE FEEDSTOCK FIGHT IS ON!!

# Organic Resource Market Challenges

## Food Waste

 Perception



# Organic Resource Market Challenges

## Food Waste

 Reality?



# Organic Resource Market Challenges

## Wood Waste

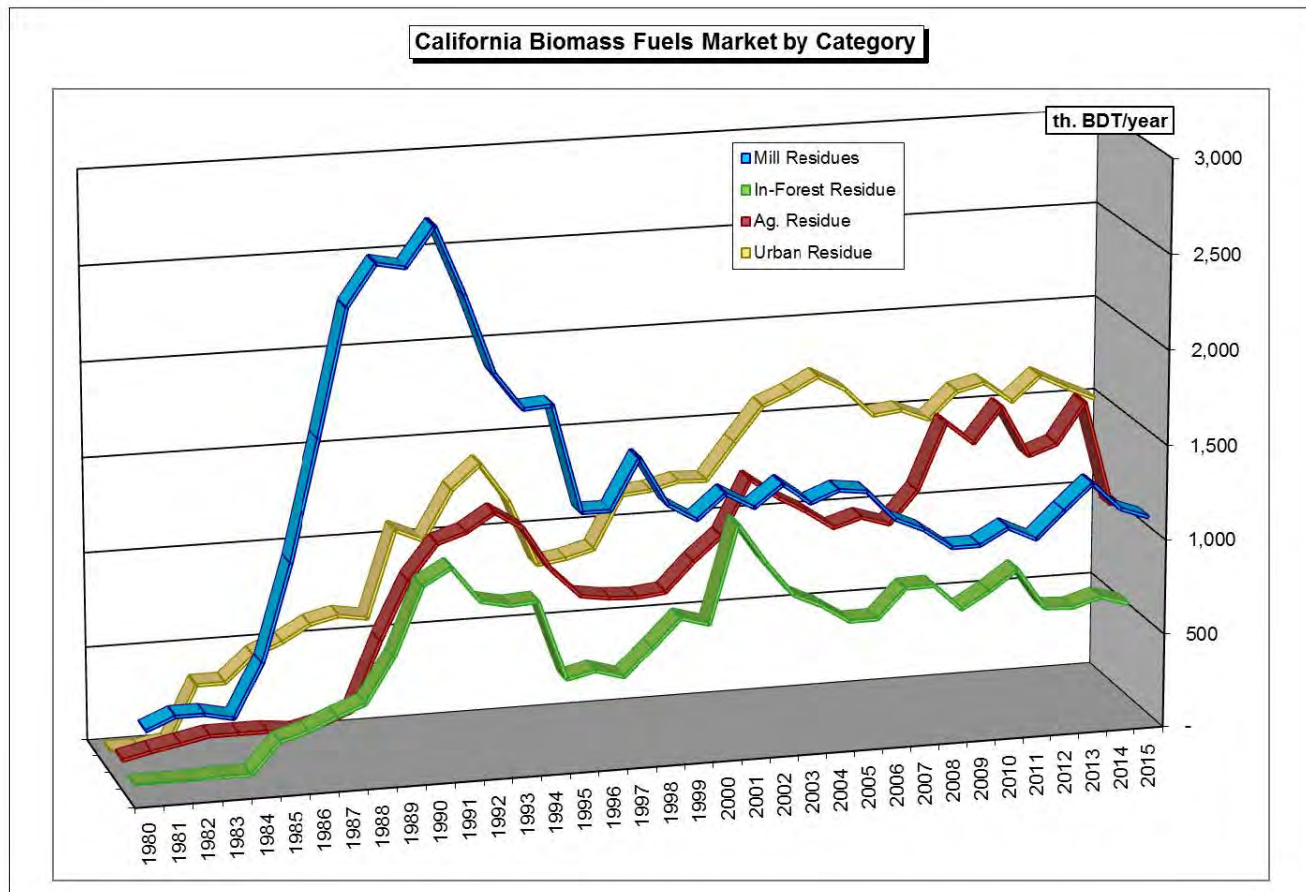
### **WOODAGEDDON!**

- ❑ Biomass Plant closures
  - ❑ Non-competitive on price
  - ❑ Environmental co-benefits undervalued
- ❑ Policy focus on High-Hazard Forest Materials
  - ❑ Crowding out urban and agricultural sources
- ❑ Limited alternative markets



# Organic Resource Market Challenges

## Wood Waste



# Organic Resource Market Challenges

## Wood Waste

Can new biomass arrive in time to bridge from old-line biomass?

### Biomass Conversion facilities

- SB 498 (Lara, 2014) – 100% diversion – 100% renewable energy
- 1 MW - 15,000 TPY – distributed generation
- Co-locate – use 1/3 on site – net meter 2/3 – CHP waste heat use
- 100 facilities – 100 MW – 1,500,000 tons per year

### Feed-In Tariff Implementation – Small-Scale Bioenergy under 3 MW

- SB 1122 (Rubio, 2013) – PUC tariff for 250 MW
  - 110 MW – Urban biomass, wastewater
  - 90 MW - Dairy, agricultural bioenergy
  - 50 MW - Forest biomass
- How much to gasification? 100 MW ? Rest to dairy and wastewater?
- BioMAT - Floor price of 12.77 cents/kwh starting Feb 1, 2016

### Co-benefits:

- Biochar for compost mixes to sequester carbon
- Filtration



# Organic Resource Market Challenges

## Comparative Economics

? Chip/grind to ADC = \$8-15/ton



? Chip/grind to Land Application = \$10-25/ton

? Landfill = \$25-100+/ton

# Organic Resource Market Challenges

## Comparative Economics

☐ Composting – windrow = \$25-35/ton





# Organic Resource Market Challenges

## Comparative Economics

**[?]** Composting w/Gen. WDRs = \$50-70/ton

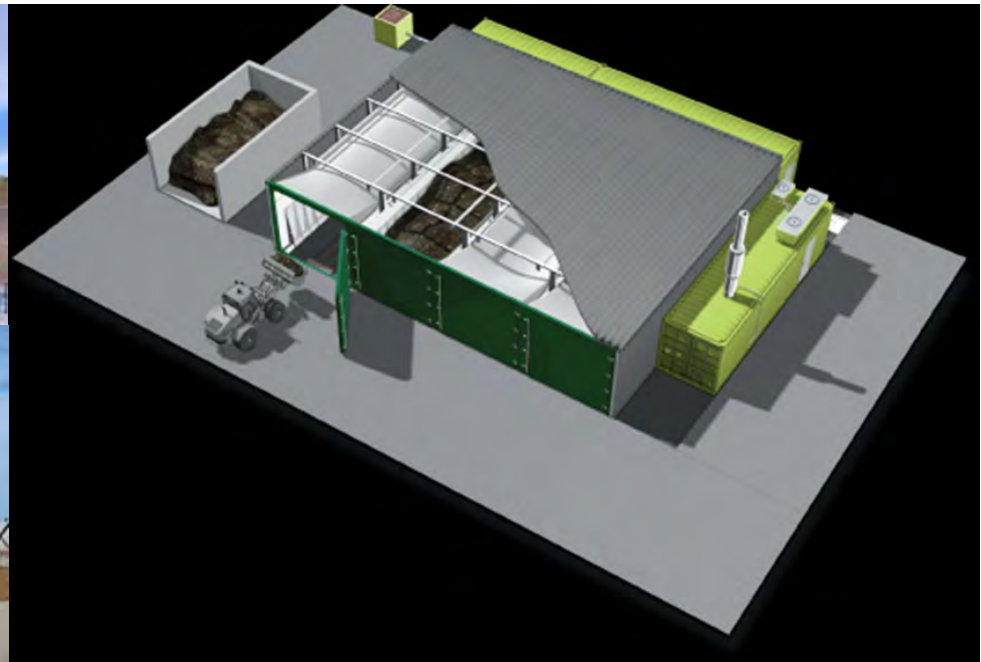




# Organic Resource Market Challenges

## Comparative Economics

**[?]** Anaerobic Digesters = \$60-80/ton



Digestate likely to still need composting or other treatment

# Regulatory Challenges

## Land-based Issues

### ☐ Local Land Use

- ☐ NIMBY's, NOPE, and BANANAs

- ☐ CEQA and Environmental Justice

### ☐ Public Sector Landfills

- ☐ Solid Waste Fee Structure

### ☐ CalRecycle

- ☐ Revision to Compostable Materials Handling and Transfer/  
Processing Regulations

- ☐ Physical Contamination Limit of 0.5% (glass, metal, plastic) in  
saleable products, effective Jan. 1, 2018.

# Regulatory Challenges

## Water Issues

- ❑ State Water Resources Control Board
  - ❑ NPDES Industrial Stormwater Permit
    - ❑ Qualified Industrial Stormwater Practitioner
    - ❑ Clean Water Act compliance and lawsuits
  - ❑ Statewide Waste Discharge Requirements
    - ❑ Wastewater retention, treatment, and disposal
    - ❑ Monitoring and reporting

# Regulatory Challenges

## Air Issues

### ☐ Local Air Districts

- ☐ Criteria Pollutants and Ozone Non-attainment

- ☐ New Source Review

- ☐ Rule 4566 – San Joaquin Valley APCD

- ☐ Rule 1133.3 – South Coast AQMD

### ☐ California Air Resources Board

- ☐ AB 32 and GHGs

### ☐ Climate Action Reserve

- ☐ Carbon Credits

### ☐ ODORS!!

# Economic Incentives

## Grants

### [?] CalRecycle Organics Grant Program

[?] \$24 Million (\$3 M set aside for rural projects)

[?] \$12 Million for composting

[?] \$12 Million for anaerobic digestion

### [?] CDFA

#### [?] Healthy Soils Initiative

[?] \$7.5 Million

[?] Limited incentive funding for compost use



# Wrap Up

## Questions?

Thank you,

Neil Edgar  
Executive Director

