

Biosolids Committee Hot Topics

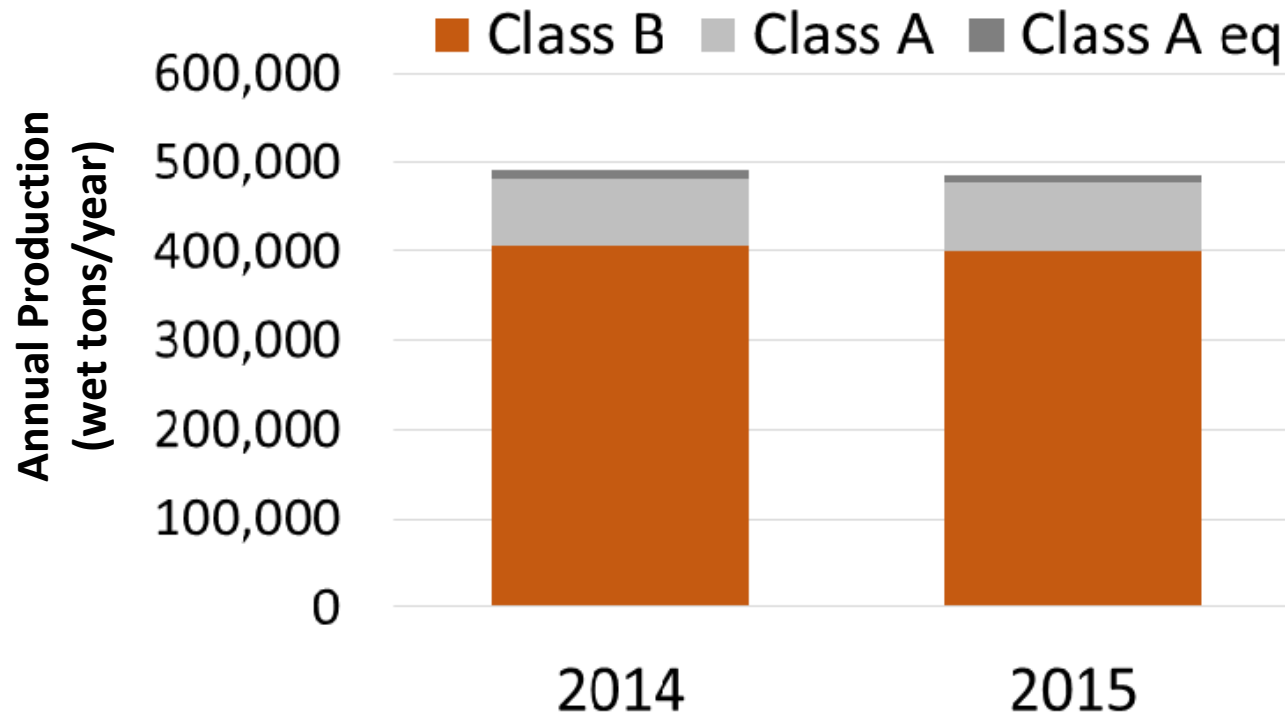
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BACWA Annual Meeting

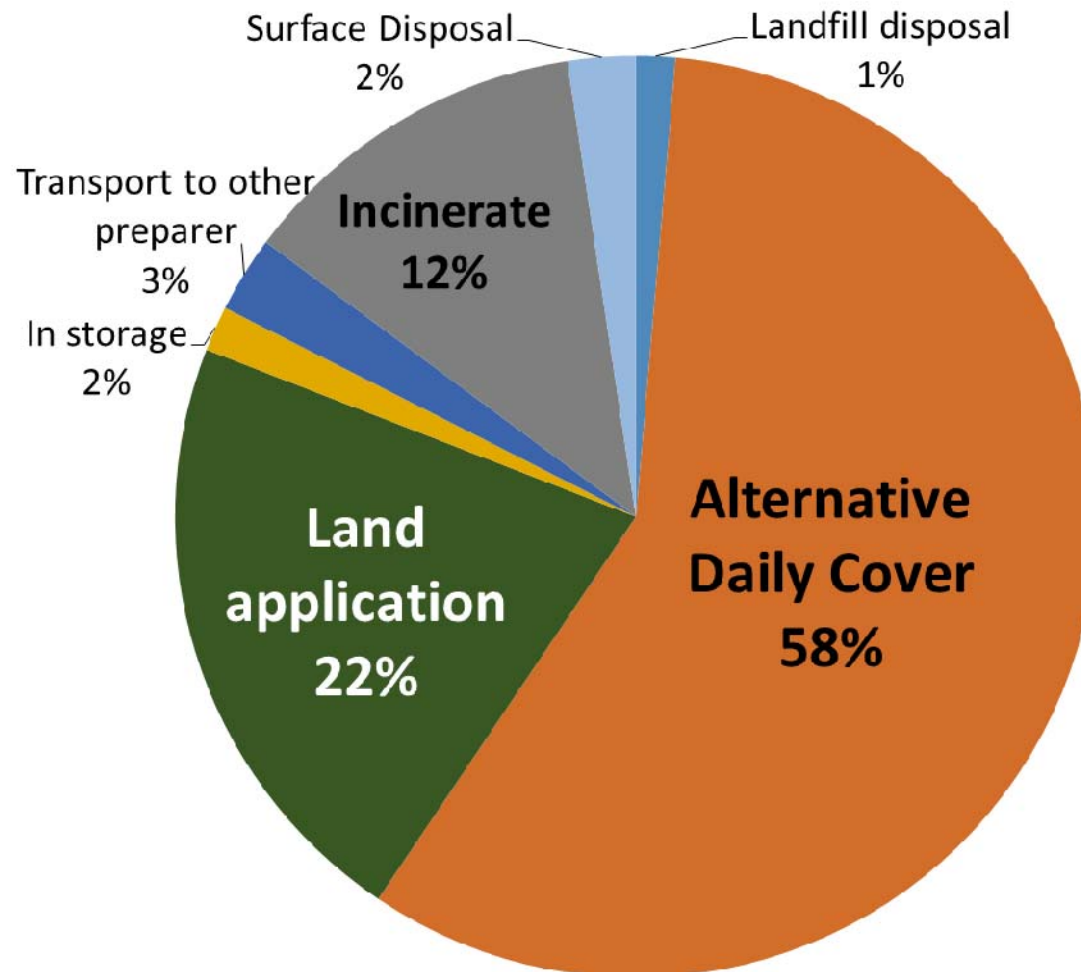
January 27, 2017

Current Conditions: Quality



Source: BACWA Biosolids Survey Preliminary Data (unpublished, 2017)

Current Conditions: Uses



Source: EPA Region 9 Data for Nine Bay Area Counties (2015)

The Bay Area Depends on Landfills

- Annual average 59% to landfill (disposal/ADC)
- Excluding incineration 68% to landfill
- In wet weather the number is much higher



Regulatory Drivers

- CalRecycle – Landfill Diversion Goals
 - 50% by 2000
 - 75% of solid waste to be recycled by 2020
- CARB – Greenhouse Gas Reduction Goals
 - 40% reduction GHG by 2030; 50% by 2040; 80% by 2050
 - Short-lived climate pollutant strategy: 40% methane reduction; 50% diversion of organic waste from landfills by 2020; 75% diversion of organics by 2025
- Trend towards Elimination of Diversion Credit
 - Green waste ADC not “diversion” in 2020

Landfills Are Not The Future

- Regulations are driving material (especially organics) out of landfill
- Similar to sea level rise....



**It is not
a matter of if,
but when**

Practical Limitations Due to Wet Weather

- Wet conditions have caused some Bay Area landfills to refuse to accept biosolids
- Results in reduced capacity that impacts many agencies



Need New (wet weather) Strategies



- In California, less than 30% of biosolids produced went to landfill
- The loss of landfill/landfill ADC will disproportionately impact the Bay Area



The Good News: Land Application

- Land application remains viable for many agencies, especially during the dry weather season
- Kern County litigation outcome will provide a precedent to motivate other counties
- CASA is preparing an update to the ordinance map



The Good News: Innovation

- Bay Area Biosolids Coalition
- Lystek: first Bay Area Facility began operation in 2016 at FSSD accepting biosolids from Bay Area agencies and producing a fertilizer product
- Positive external drivers
 - CA Healthy Soils Initiative
 - Carbon Sequestration
 - Marsh restoration

**NECESSITY IS THE
MOTHER OF
INVENTION**

Proverb