



Compost Trends in California aiding in SB 1383 Capacity Planning

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USCC Compost Definition

*“The product manufactured through the controlled **aerobic**, biological decomposition of biodegradable materials.”*

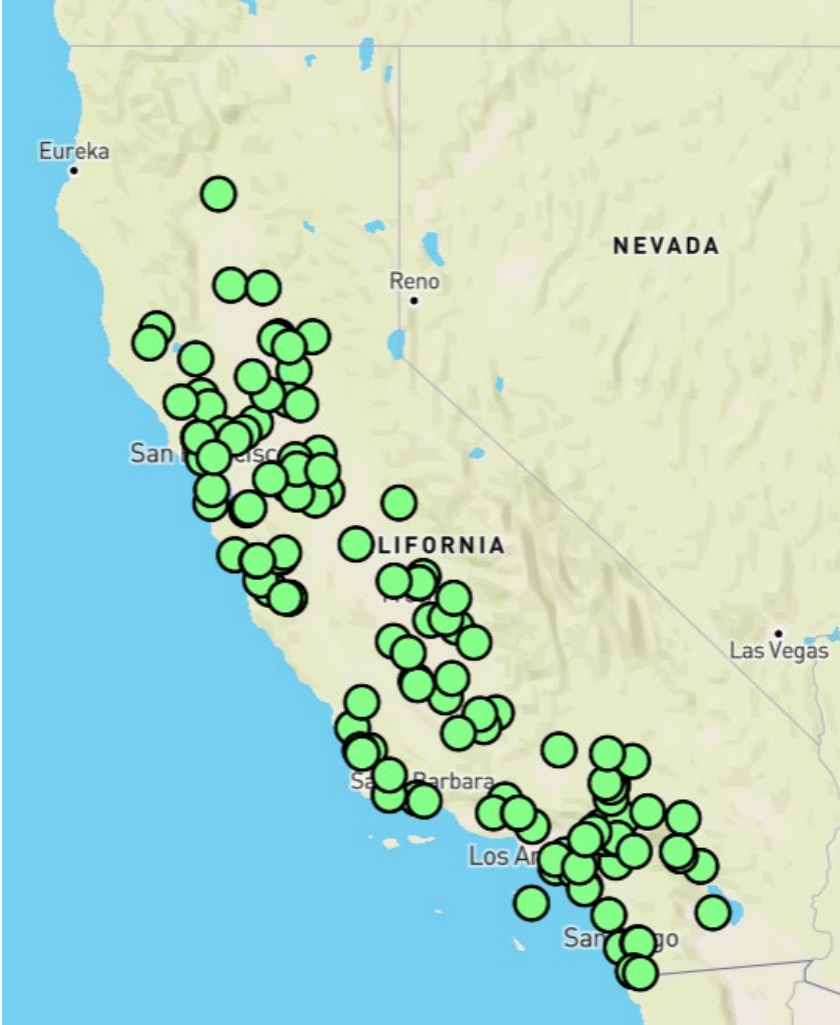
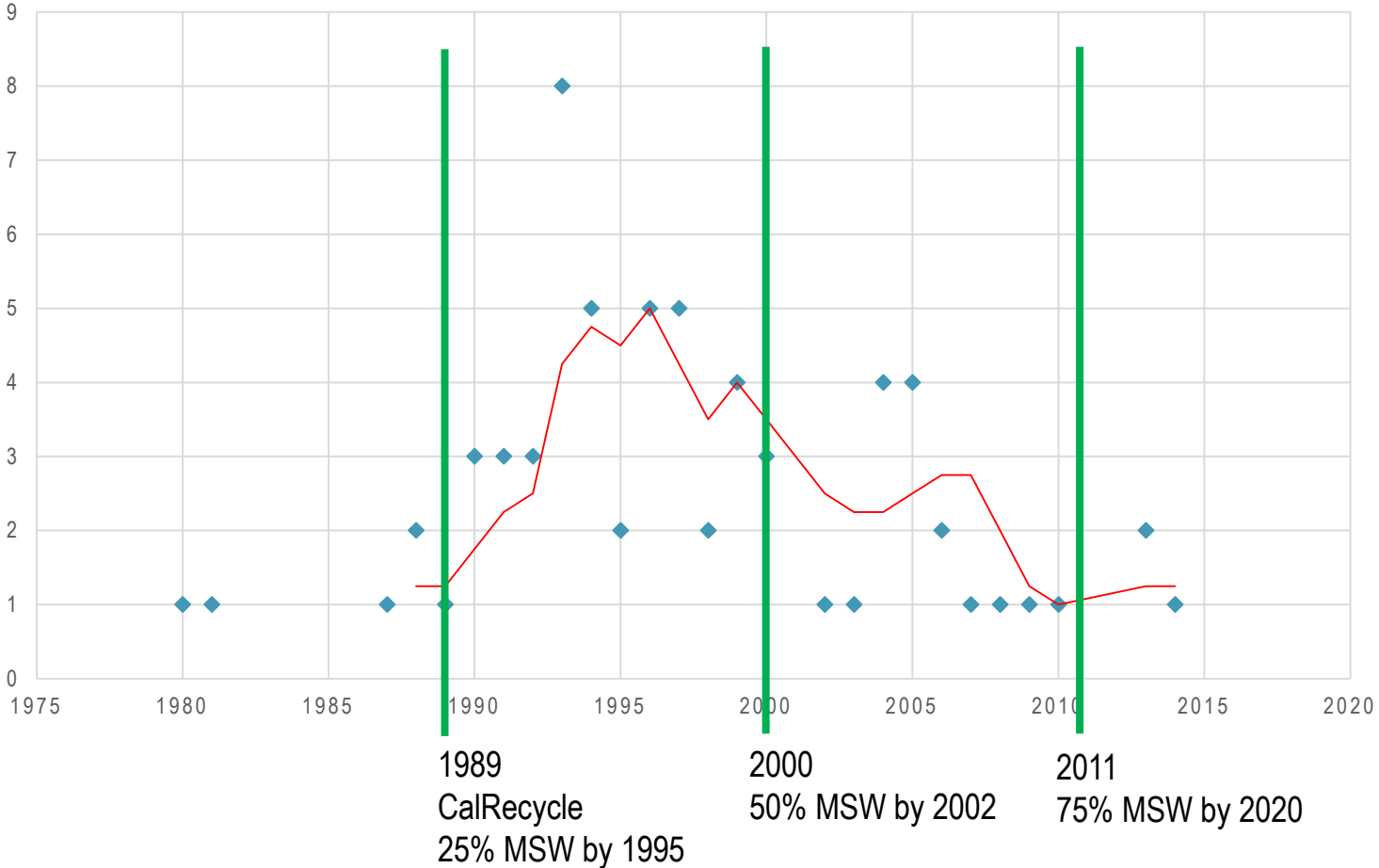


Types of Composting

- Traditional Windrow Composting
- Aerated Static Pile (ASP)
 - Pipe-on-grade (mobile)
 - Subgrade aeration
- Covered / Geomembrane
- In-Vessel
- Community Composting



Historical Compost Trends – No. of Permitted Facilities



SB 1383, Article 11, Capacity Planning

- Estimate the amount of organics waste that will be disposed
- Identify the amount in tons of existing organics recycling infrastructure capacity that is available
- Estimate the amount of new or expanded organics recycling infrastructure capacity that will be needed

Organics Capacity Plan due August 1, 2022

Composting Facility Trends - Development



New Greenfield Site



Expansion of MRF/TS



Co-located at Landfill

Greenfield Site

Advantages

- No bad history / reputation
- “Blank canvas”
- Typically, cheaper to purchase

Disadvantages

- Permitting Timeline
- Public Opposition
- Financing Guarantees



Expansion of MRF/TS

Advantages

- Existing staffing / equipment
- Existing relationships
- Financial guarantees

Disadvantages

- Increased impact
- Limited land availability



Co-located at Landfill

Advantages

- High impact site (EIR)
- Existing staff / equipment
- Land Availability

Disadvantages

- High impact site (EIR)
- Emissions Offsets
- Grandfathered status



Composting Facility Trends – Increase Capacity



Adding FW to GW Composting



Upgrading Technology



Increasing Footprint



Methods to Increase Capacity

- Adding Foodwaste
 - Adequate material receiving area & drainage
 - Increased pre-processing
 - More efficient operations
- Advanced Technologies
 - More processing capacity per acre
 - More throughput, less emissions
 - Feedstock flexibility

Permits, Oh My!

- Land Use / CEQA
- CalRecycle
- Water Board
- Air Permits



Source (and apologies to): Non Sequitur, Wiley Miller 8/28/10

www.peoplestrategy.com

CALRECYCLE TIER CHART

Notification Tier	Registration Tier	Full SWFP
Agricultural Composting		Composting (all)
Green Material < 12,500 cy		Green Material > 12,500 cy
Biosolids @ POTWs	Vegetative Food < 12,500 cy	Vegetative Food > 12,500 cy
Research Composting ≤ 5,000 cy		
Chip/Grind ≤ 200 tpd	Chip/Grind 200 tpd ≤ x ≤ 500 tpd	Chip/Grind > 500 tpd
Limited Volume In-Vessel <15 tpd	Medium Volume In-Vessel 15 tpd ≤ x ≤ 100 tpd	Large Volume In-Vessel >100 tpd
Research In-Vessel 2 year limit		

STATE & REGIONAL WATER BOARDS

WDR Allowable Feedstocks and Size

Exempt	Tier 1	Tier 2
Agricultural Composting	Agricultural Materials	All Food Materials
Chip/Grind Facilities	Green Materials	Biosolids
Lot Clearing (government)	Vegetative Food	Manure
Activities are within a fully-enclosed vessel	Residentially co-collected or self-hauled food and green materials	Digestate from allowable Tier 2 feedstocks
< 5,000 cubic yards per year and cover materials during storm events	Digestate from allowable Tier I Feedstocks	
< 500 cubic yards	< 25,000 cubic yards	> 25,000 cubic yards

Methods to Increase Capacity

Permit Revisions

1. Land Use / CEQA
 - Addendums: 60 days to one year
2. SWFP
 - Revisions: 6-9 months
3. WDR
 - Updates: 3-6 months
4. Air Permits
 - New/Modified ATCs: 1-2 years





Capacity Planning Strategies

1. Hauler that has an organics processing facility
2. Stand alone organics processor
3. Multiple separate companies that formed a partnership
4. Promise of a future facility/capacity

Capacity Planning Strategies

Working with your organics processor to comply with SB 1383

- Start conversations early
- Approach with no extra expectations
- Get to understand facility's business practice
- Allow for implementation and compliance flexibility
- Have a Plan B



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Questions?

