

AB 341

41780.02.

(a) On or before January 1, 2014, the department shall submit a report to the Legislature that provides strategies to achieve the state's policy goal that not less than 75 percent of solid waste generated be source reduced, recycled, or composted by the year 2020, and annually thereafter, pursuant to Section 41780.01.

(b) The report shall also include all of the following:

- (1) A review and update of the information required pursuant to subparagraph (A) of paragraph (4) of subdivision (c) of Section 40507, with emphasis on new and emerging trends in resource management.
 - (2) Identification of problematic waste streams and sources and recommendations on handling those waste streams.
 - (3) Evaluation of current programs and their effectiveness, and recommendations for changes to those programs.
 - (4) Recommendations for reprioritizing existing resources to best achieve the purpose of Section 41780.01.
 - (5) Recommendations for legislative changes, if any, that are necessary to achieve the goals of Section 41780.01.
 - (6) Report on regulatory changes, if any, that are necessary, to achieve the goals of Section 41780.01.
 - (7) Any other information or recommendations the department deems pertinent.
- (c) The department may provide the report required pursuant to this section in conjunction with the report required pursuant to Section 40507 if the combined report is submitted on or before January 1, 2014.
- (d) The department may hold public workshops to gather input from stakeholders.
- (e) (1) Pursuant to Section 10231.5 of the Government Code, this section is repealed on January 1, 2017.
(2) The report shall be submitted in compliance with Section 9795 of the Government Code.



The Numbers! What Does 75% Recycling Mean?



Different

AB 939

Jurisdictions

50% Mandate

At 65% Diversion

Diversion

Disposal

Base Generation

(2003-2006)

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AB 341

Statewide

75% Goal

At 49% Recycling

Recycling

Disposal♦Related

Base Generation

(1990-2010)



Similar

- Measure based on per resident activity
- Measure less desirable but more quantifiable part



The Equations

Disposal + Diversion = Generation

Disposal♦Related + Recycling = Generation



Comparing the Components

AB 939*

Disposal = Landfilled, Exported Disposal & Excess Transformation

Diversion = Source Reduction, Recycling, Composting, ADC, AIC,
Beneficial Reuse, Transformation, etc.

AB 341*

Disposal♦Related = Landfilled, Exported Disposal, Transformation,
ADC, AIC, Beneficial Reuse, Waste Derived Fuel

Recycling = Source Reduction, Recycling
& Composting (Includes Anaerobic Digestion)

*Biomass not included in the base – but future increases to biomass reduce disposal so it falls into Diversion and Recycling categories.



Three Aspects of Measurement

Recycling + Disposal ♦ Related = 100%
Generation

- The BASE
- The TARGET
- The Activities to TRACK



The BASE

Average Per Resident Generation from 1990 to 2010:

- 10.7 pounds of generation per resident per day (PPD)
- Allows for solid waste increase due to population growth
- Does not allow for solid waste increase due to inefficiency or increase in wastefulness related to economic growth



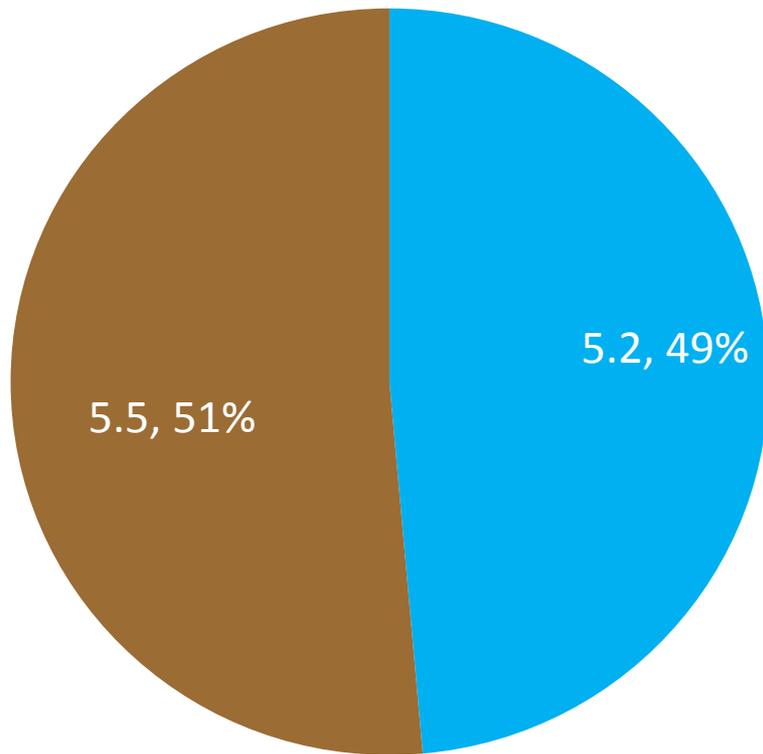
The TARGET

Given 10.7 PPD Generation:

- At least 75% or 8.0 PPD Must be Recycled
- Not More Than 25% or 2.7 PPD to Disposal♦Related Activities



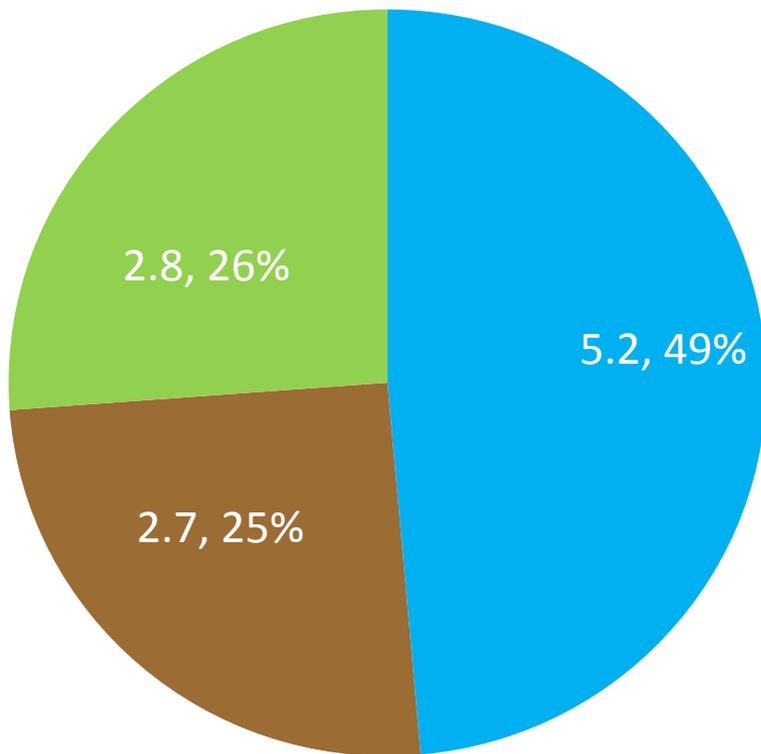
Where are we now?



- Currently Recycled (PPD)
- Currently Disposal-Related Activity (PPD)



Where do we need to go?



- Currently Recycled (PPD)
- Maximum Disposal-Related Allowed (PPD)
- Additional Recycling Needed (PPD)



Activities to TRACK

All Disposal♦Related Activities:

- Landfilled,
- Exported for Disposal,
- Transformed,
- ADC, AIC, Beneficial Reuse, &
- Waste-Derived Fuels.

Current volumes:

Table 1. Rough Estimates of Disposal-Related Materials Flows in 2010 under the proposed 75% recycling paradigm.

Activity	"Disposal-Related" Activities Rough Estimate of Total Annual throughput (Tons) for 2010
Traditional Disposal	
SW Disposed from CA at in-State Landfills	30,000,000
Disposed from CA at out-of-State Landfills	400,000
Subtotal:	30,400,000
Additional Disposal-Related	
Transformed at CA Transformation Facilities	800,000
Alternative Daily Cover at CA Landfills	3,500,000
Alternative Intermediate Cover at CA Landfills	100,000
Beneficial Reuse at CA Landfills	2,100,000
Used Tire Derived Fuel at CA Facilities	70,000
Subtotal:	6,570,000
ALL DISPOSAL-RELATED - GRAND TOTAL:	36,970,000



Starting Point

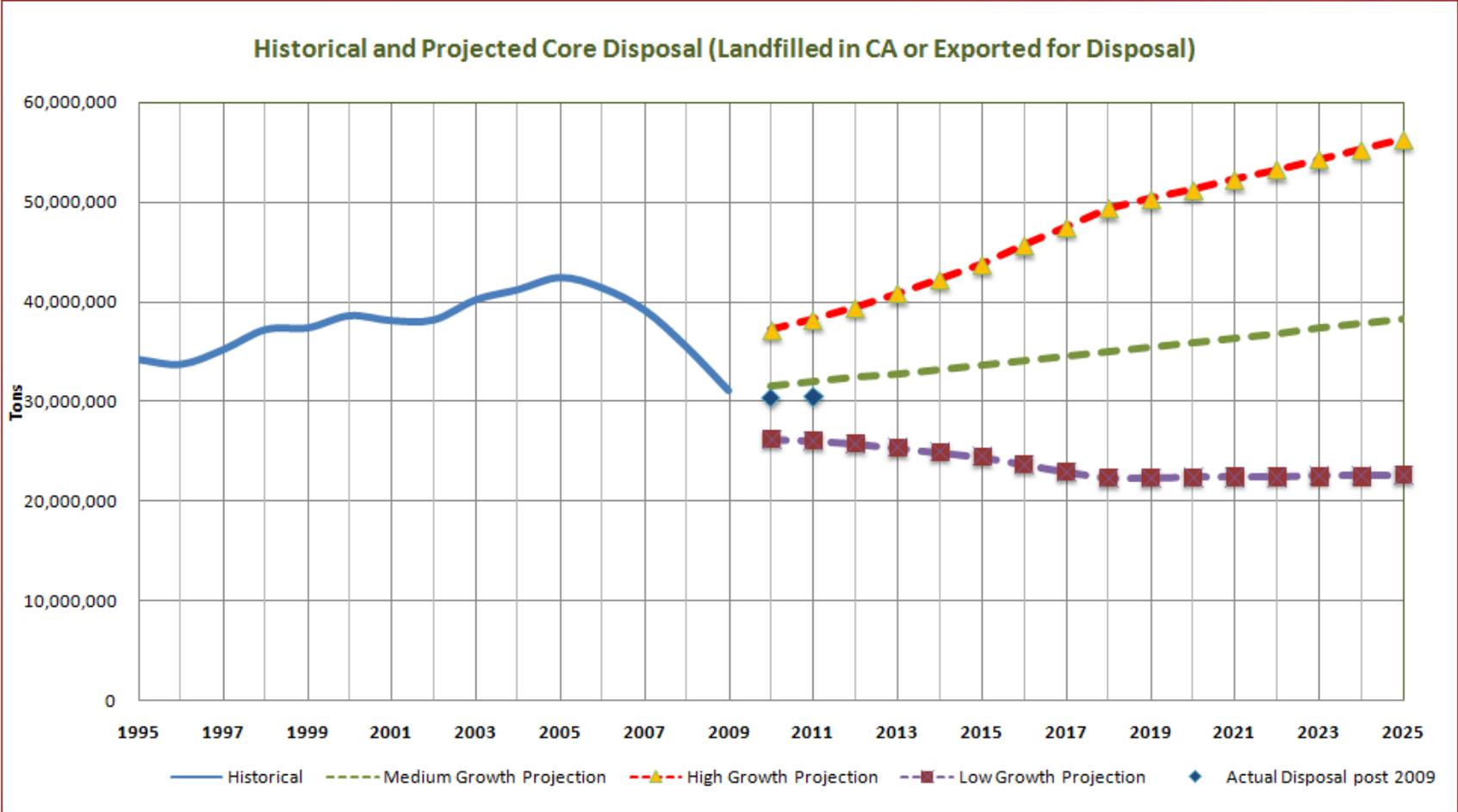
In 2020 we project the following rough estimates:

36 Million Tons of Traditional Disposal

+ 7 Million Tons of Additional Disposal♦Related Activity

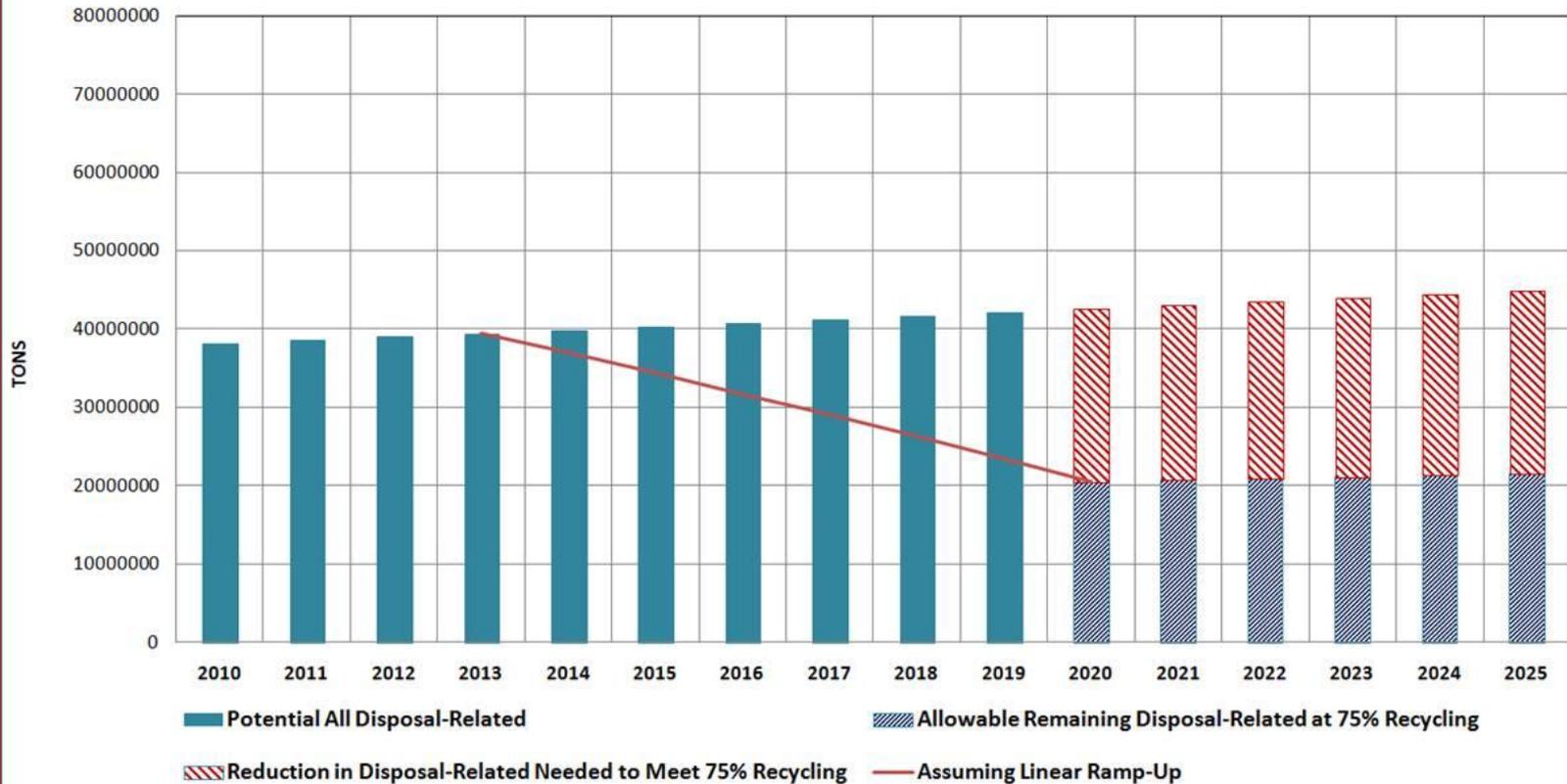
43 Million Tons for all Disposal♦Related Activity

Traditional Disposal



All Disposal-Related

Chart 2. Statewide Projected (Medium Growth) Annual Potential Disposal-Related Tonnages, Reduction Needed to Meet 75% Recycling, & Remaining Disposal-Related Activity at 75% Recycling.





The LIFT

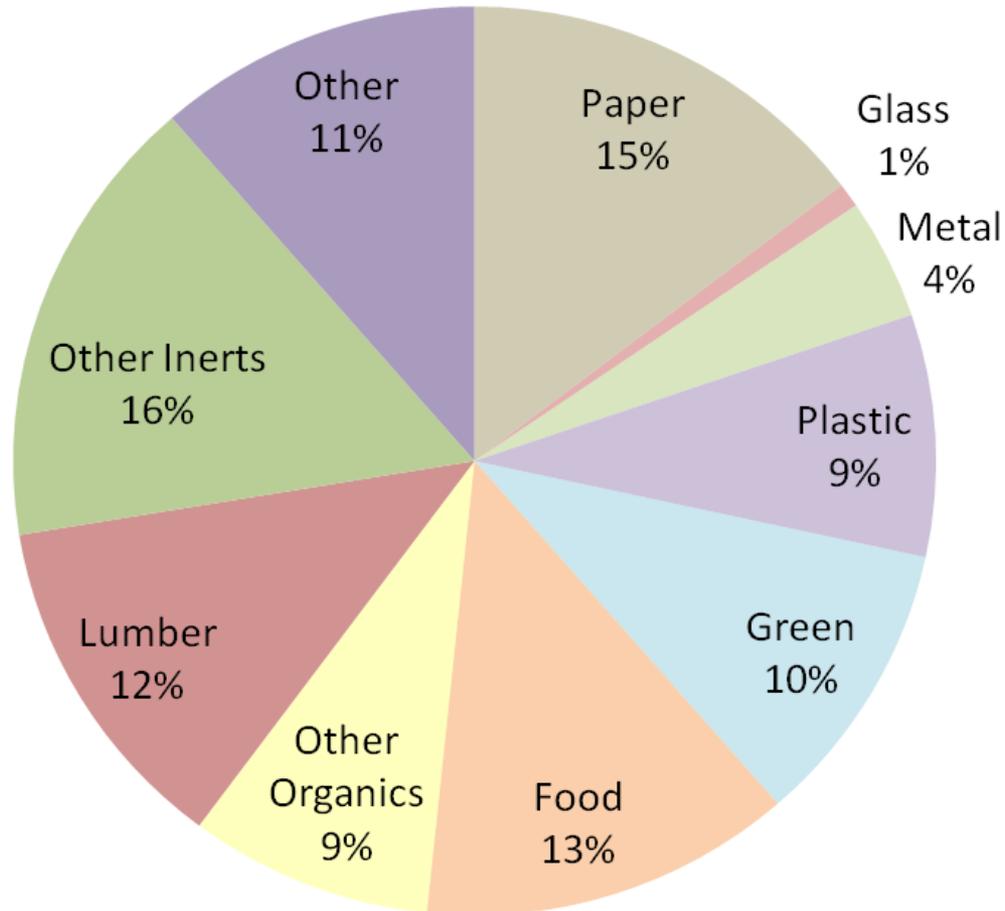
43 Million Tons of Potential Disposal♦Related

-22 Million Tons of Additional Recycling

21 Million Tons of Remaining Disposal♦Related

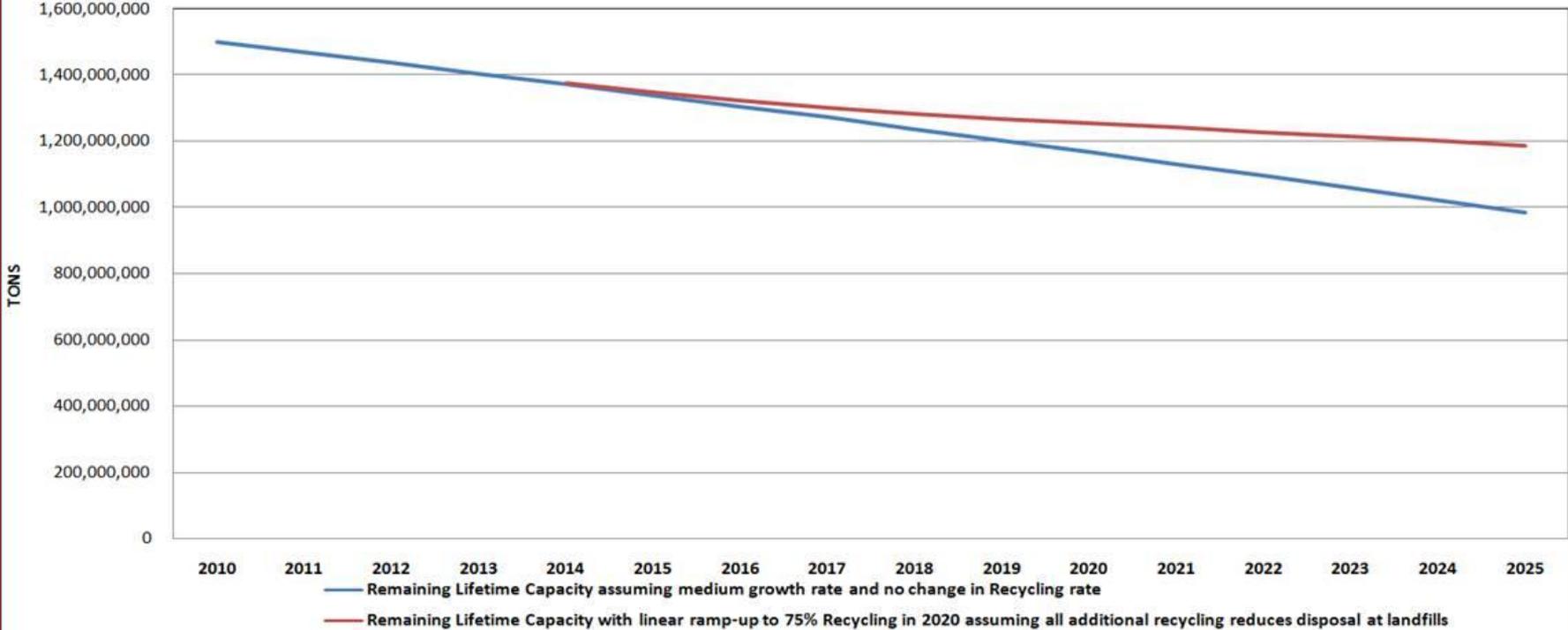
43 Million Tons:

Chart 3. Estimated 2020 Composition of All Disposal-Related Activity.



Landfill Capacity Impact:

Chart 4. Projected California Statewide Remaining Lifetime Landfill Capacity.





Measurement Questions?

The Base:

Background Table 1: Calculating Average Per Resident Generation for 1990 to 2010.

Year	Estimated Generation (Millions of Tons)	Population (Millions)	Per Resident Generation (Pounds/Person/Day)
1990	50.9	29.8	9.4
1991	49.2	30.1	8.9
1992	48.6	30.7	8.7
1993	48.1	31.2	8.5
1994	48.7	31.4	8.5
1995	49.7	31.6	8.6
1996	50.9	31.8	8.8
1997	52.5	32.2	8.9
1998	55.9	32.7	9.4
1999	59.7	33.1	9.9
2000	66.1	33.7	10.7
2001	68.0	34.4	10.8
2002	71.8	35.1	11.2
2003	75.7	35.7	11.6
2004	77.9	36.2	11.8
2005	88.2	36.7	13.2
2006	92.2	37.1	13.6
2007	93.0	37.5	13.6
2008	90.6	37.9	13.1
2009	87.3	38.3	12.5
2010	87.0	37.3	12.8
		Average	10.7

2010 Snapshot:

Background Table 2: Calculating 2010 Values.

2010 Population (People)	37,253,956
Per Resident Generation Base (PPD)	10.7
Calculated 2010 Generation Using New Base (Tons)	72,747,663
Reported 2010 Disposal-Related Activity (Tons)	36,970,000
Calculated 2010 Recycling (Tons)	35,777,663
2010 Disposal-Related Percentage	51%
2010 Recycling Percentage	49%