



Tipping Fees in California

Overview

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- ▶ Introduction
- ▶ Methodology
- ▶ Tipping Fee Results from Report
 - ▶ California Median
 - ▶ MSW and green waste at landfills
 - ▶ Other facilities in California
 - ▶ Maps
 - ▶ Comparisons to EU and the US
- ▶ Conclusions
- ▶ Questions?

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Introduction

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- ▶ What are tipping fees?
 - ▶ Fees paid at landfills by the customer for waste disposal
 - ▶ Customers: self (public) or commercial haulers
 - ▶ Tipping fees are **not the cost of landfilling**- revenue can be combined with taxes to offset operational costs
- ▶ Why are we discussing tipping fees?
 - ▶ To support the 75% plan and provide data for policy making
 - ▶ To understand the dynamics of landfilling in California
 - ▶ To analyze and understand market signals being sent by tipping fees

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Methodology: Data Collection

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- ▶ **What:** Public “self-haul” fees for MSW and green waste
- ▶ **Who:**
 - ▶ Landfills
 - ▶ Transfer Stations/MRFs
 - ▶ Transformation Facilities
 - ▶ NOT: Facilities with no public access/did not accept MSW
 - ▶ Compost Facilities
 - ▶ Chip and Grind Facilities
 - ▶ Biomass Facilities
- ▶ **How:** through facility websites and phone calls

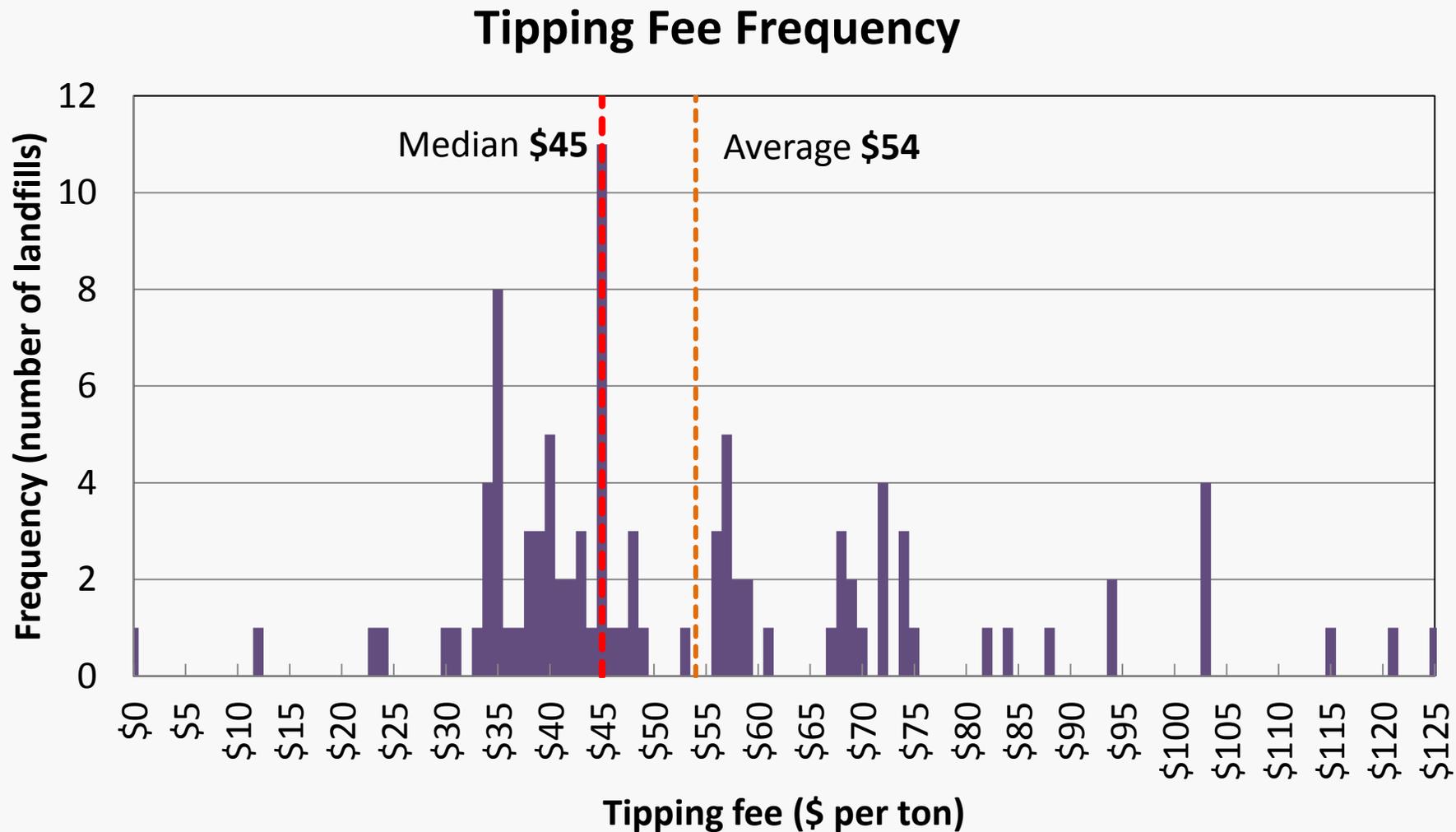
Methodology: Analysis

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- ▶ Annual disposal tonnages
- ▶ Demographic information
- ▶ Information from the 2008 Waste Characterization Study
- ▶ Tipping fee reports from the United States and European Union
- ▶ ArcGIS mapping tools and bin analysis
- ▶ Medians, averages, and ranges

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Median and Range of California Tipping Fees



► Median: \$45 per ton

► Range: \$0 - \$126

► Half of landfills charge \$35 - \$50

Landfill Fees: MSW & Green Waste

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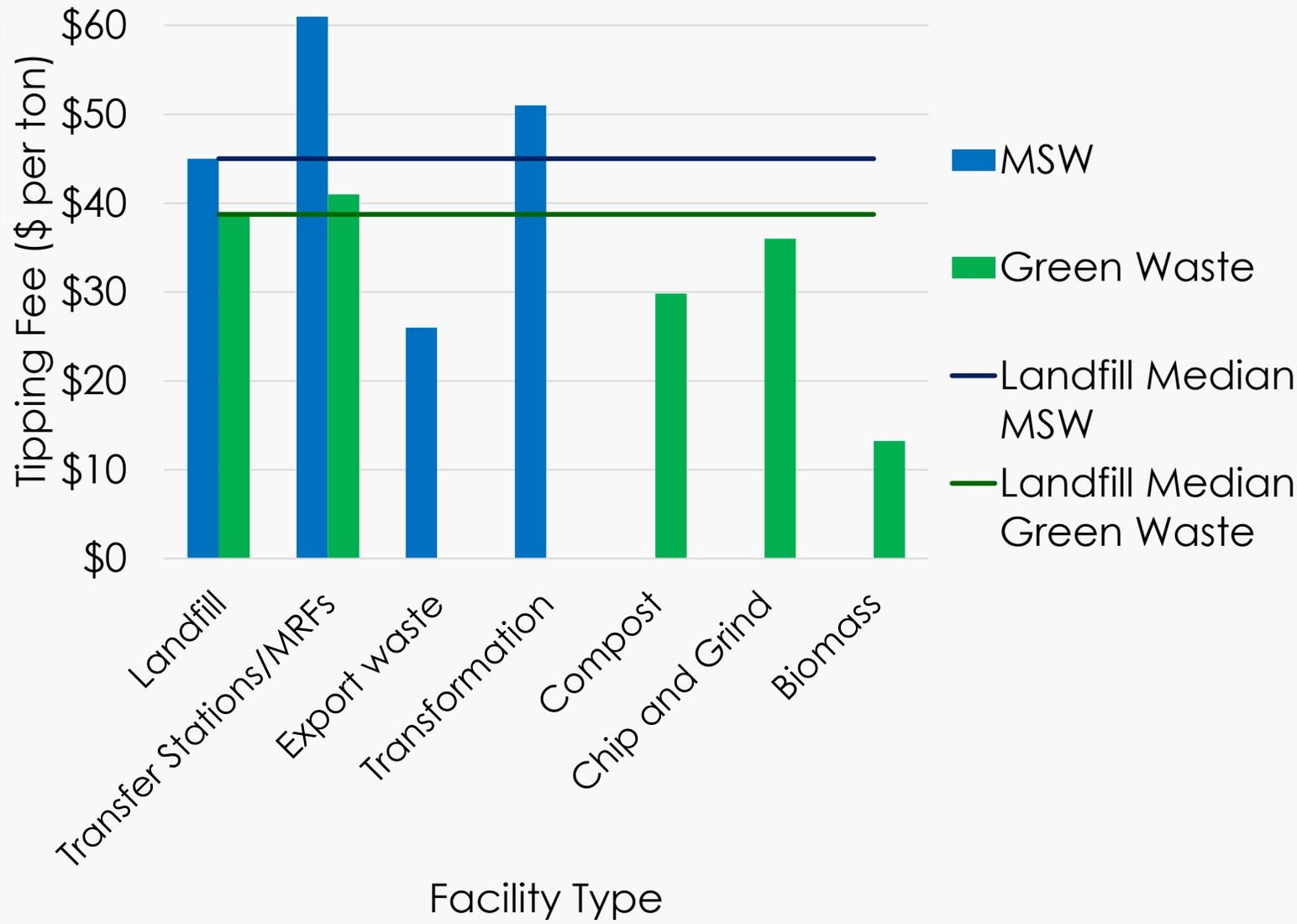


- MSW is \$45 per ton median
- Green waste: \$39 per ton median
- Majority (84%) of landfills charge same or less for green waste

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Tipping Fees: MSW and Green Waste

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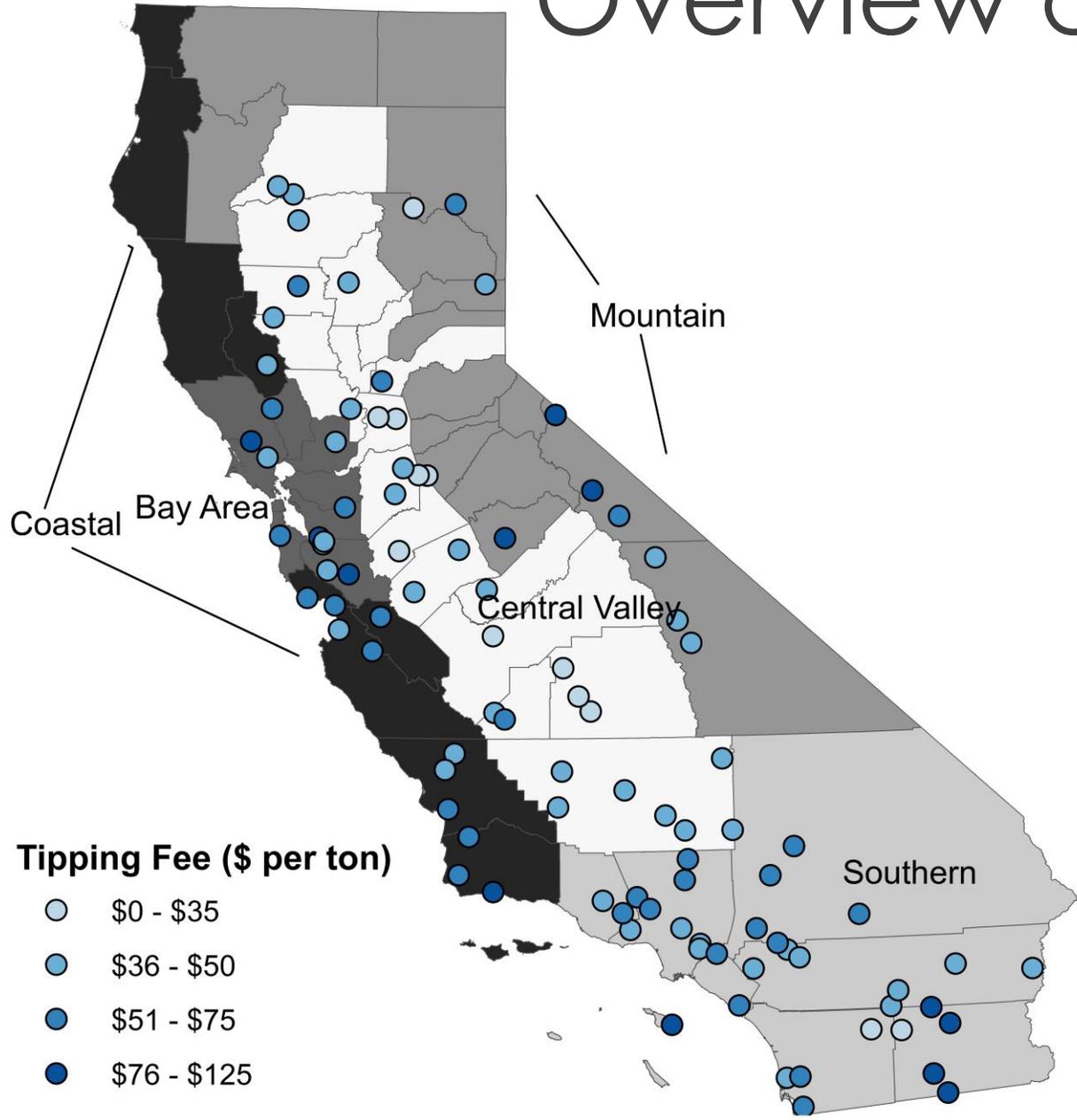
➤ Transfer Stations charge the most

➤ Green waste facilities charge less

➤ Transformation is more expensive, but closest landfills are less

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Overview of Mapped Data



► Bay Area: \$68
and Coastal: \$64

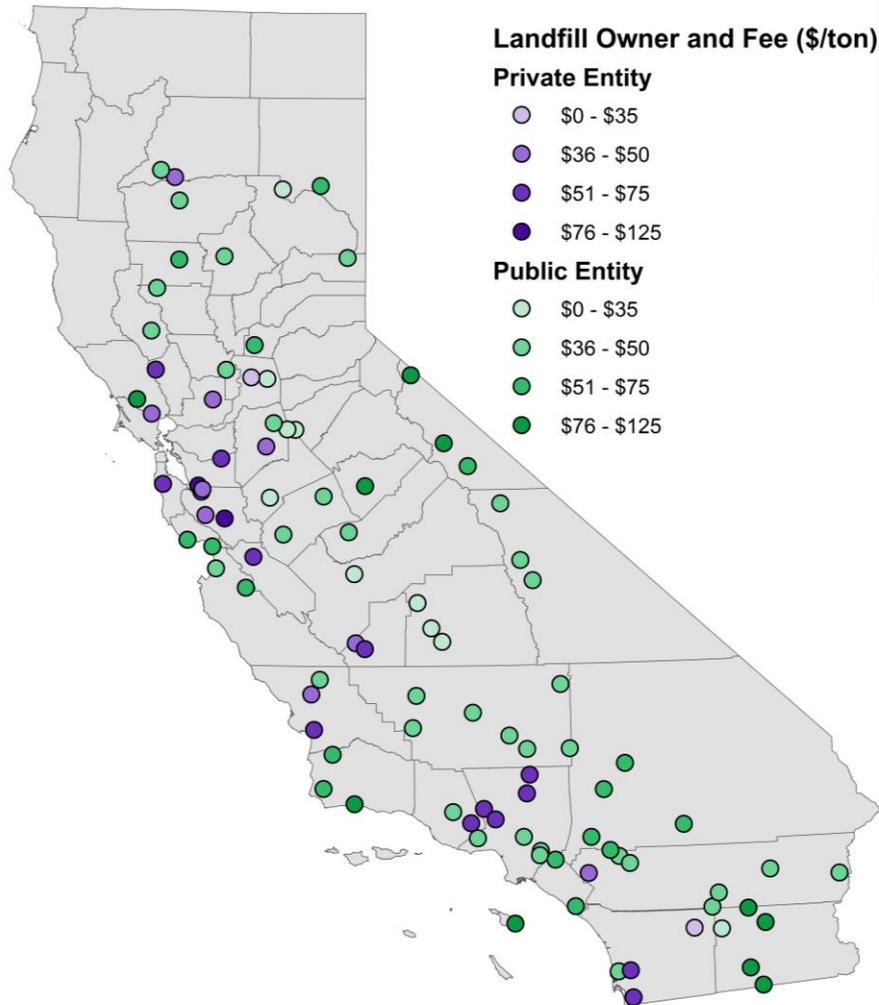
► Southern: \$56

► Central Valley: \$43
and Mountain: \$41*

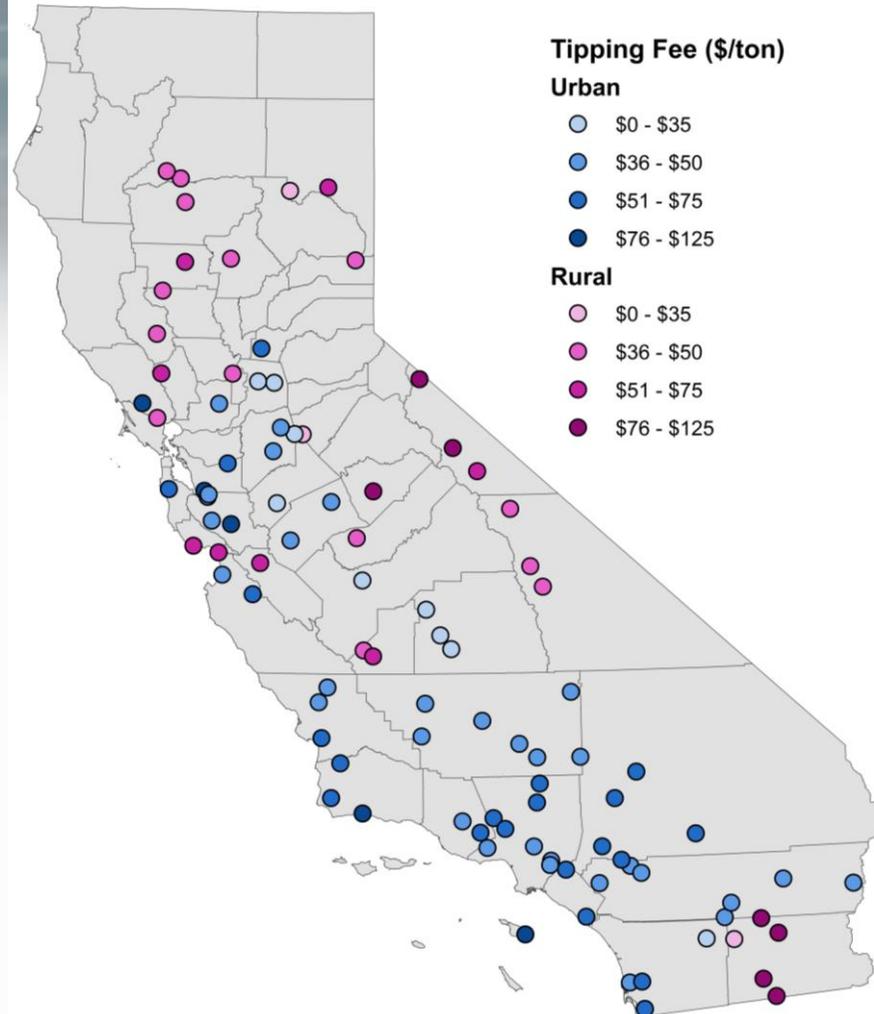
Other Maps in Report

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Tipping Fees in California, 2013 Owner Data



Tipping Fees in California, 2013 Rural Data

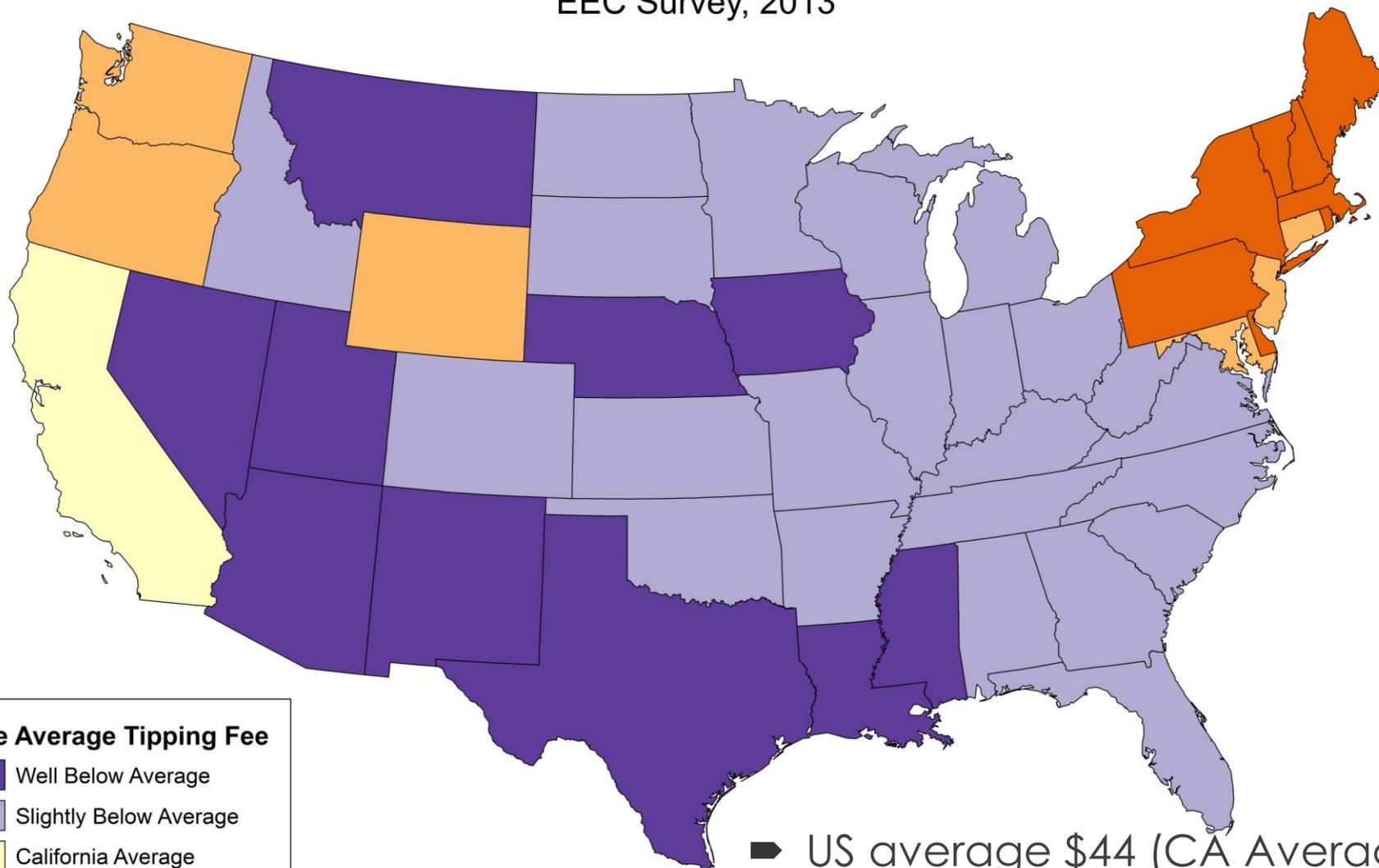


- ▶ Public Landfills median was the same as the state median
- ▶ Private Landfills charge \$12 above the median
- ▶ Difference in funding structure

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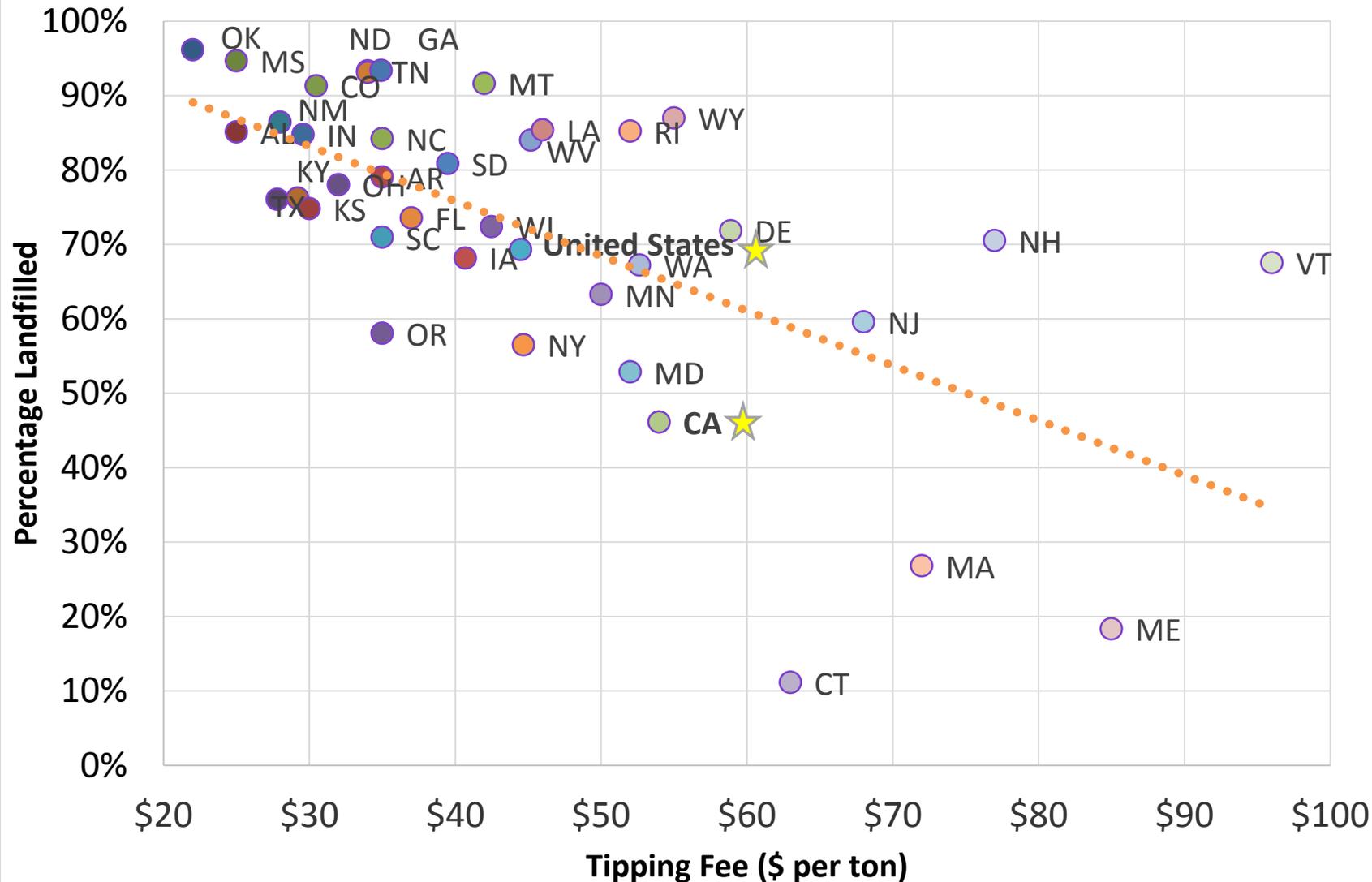
California Tipping Fee Average Compared to Tipping Fees in the US

EEC Survey, 2013



Percent Landfilled vs Fee (US)

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Correlation: lower tipping fee, higher percentage of waste landfilled

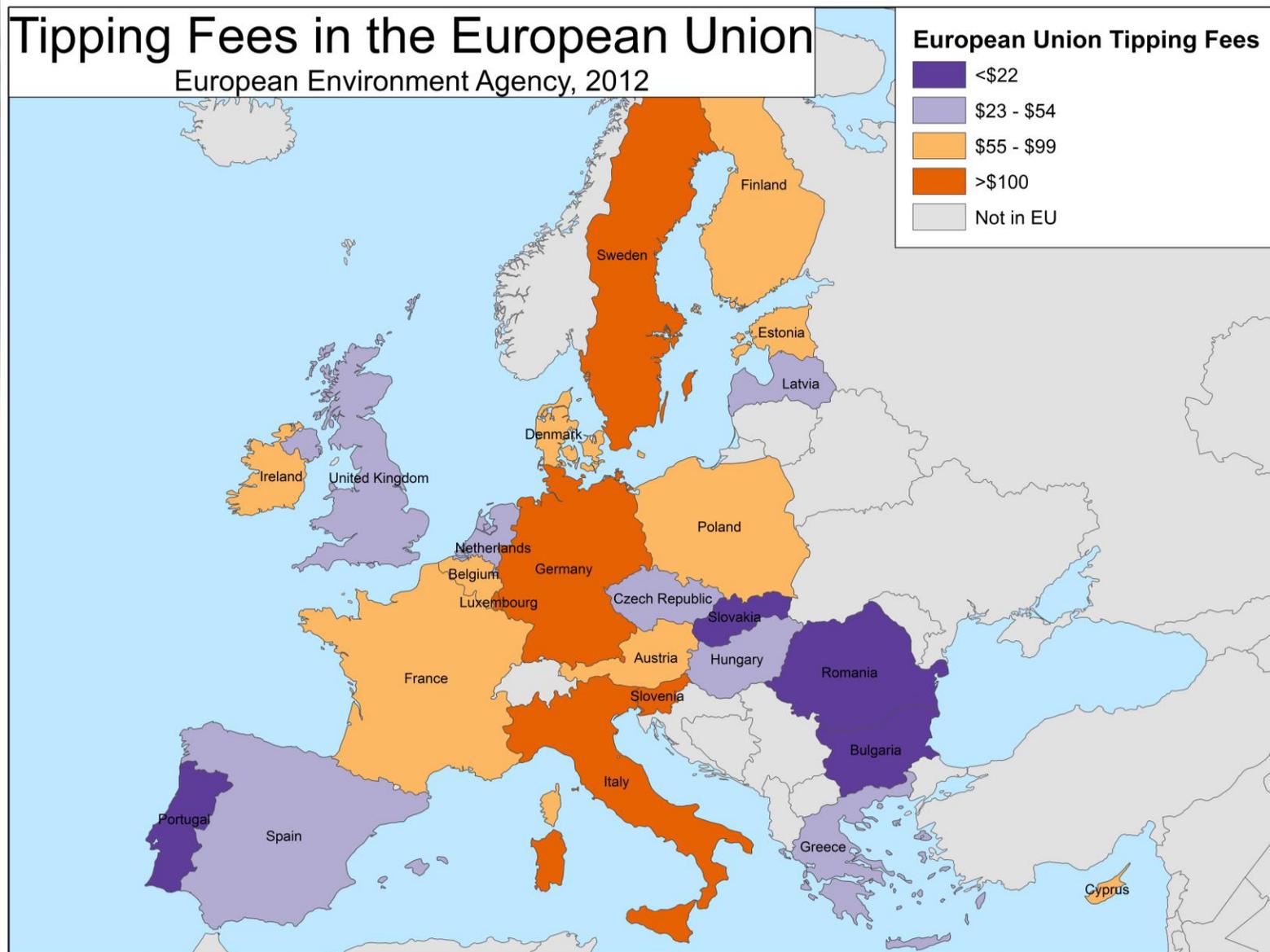
CA tipping fee lower than trend-line

European Union Tipping Fees

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Tipping Fees in the European Union

European Environment Agency, 2012



► EU Average \$69 (not including average \$35 landfill tax), CA average \$54

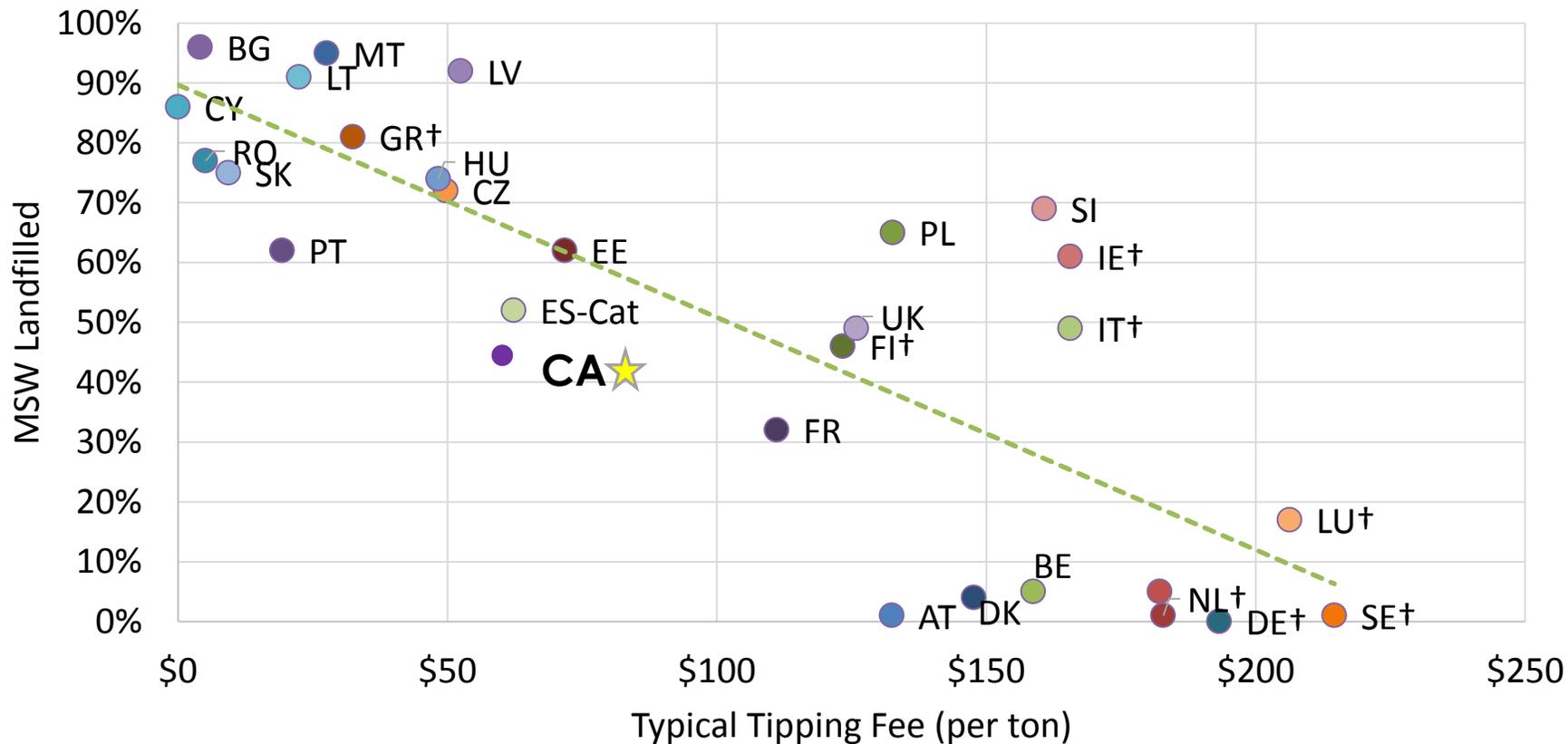
► CA Average well below

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Percent Landfilled vs Fee (EU)

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Typical Tipping Fees and Percentage Landfilled in European Union Member States



► Correlation: lower tipping fees, higher percentage of waste landfilled

Conclusions

- Tipping fees are complex
- Tipping fees have a lot of local variation
- Tipping fee in California is low
- Due to their low levels, current tipping fees do not drive materials away from landfill and to their highest and best use

Next Steps

- ▶ Publication of the tipping fee report
- ▶ Future research
 - ▶ Review commercial fees for more complete analysis
 - ▶ More in depth look at green waste tipping fees
 - ▶ Landfill taxes in California
 - ▶ Jurisdiction diversion and local tipping fees



Questions?

Tipping Fee Report

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