Task Force Information Requests

Tonnage & Forecast Data

March 13, 2015

Information Overview

Tonnage Trends:

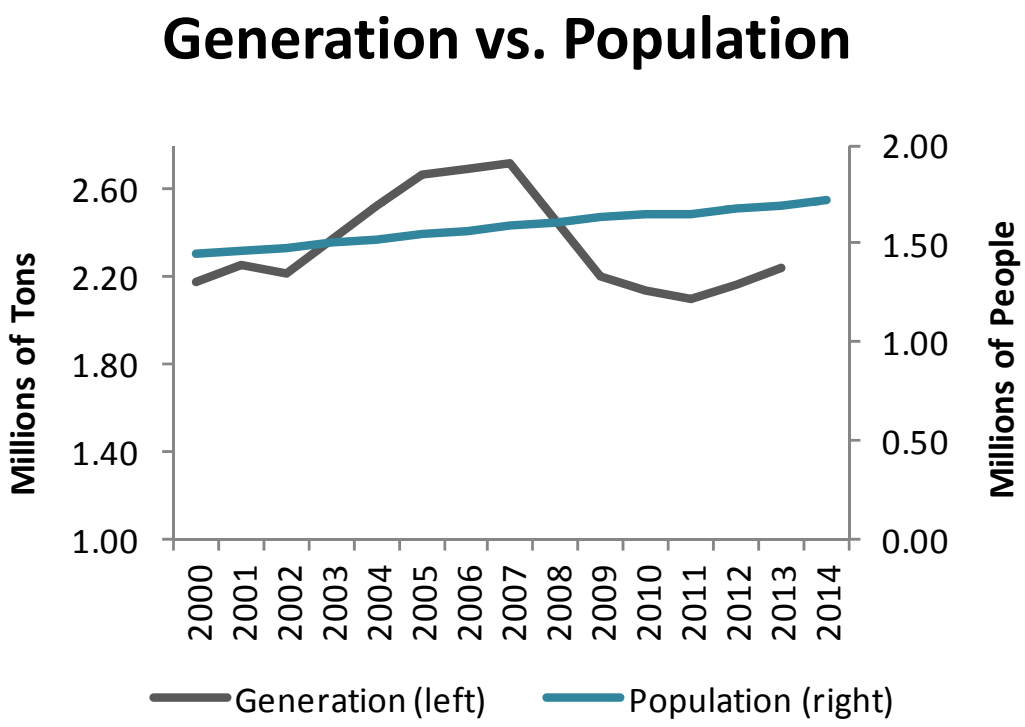
- Generation & Drivers (incl. Population)
- Discards Delivered
  - Metro/Private
  - Wet/Dry
- Discards Disposed
  - Metro/Private

Tonnage Scenarios:

- Forecast structure (Generation → Discards delivered)
- Alternative generation scenarios
- Alternative regional recovery rate scenarios
- Alternative food diversion scenarios

Tonnage Trends

Generation & Its Drivers



Avg. Annual Growth
(1992 – 2013)

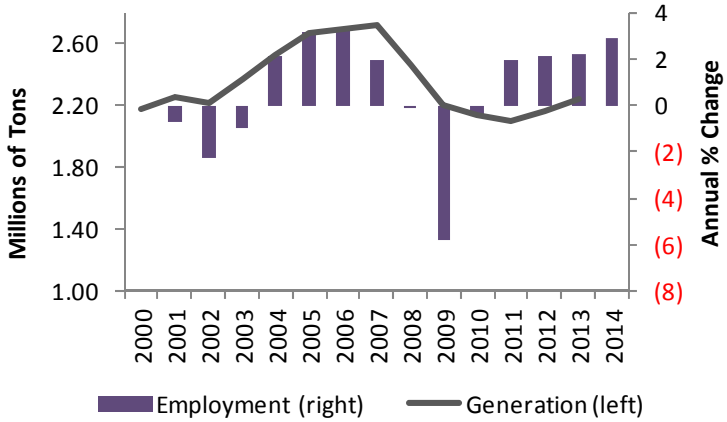
Generation ~ 2%

Population ~ 1.5%

Source: Generation – Oregon DEQ *2013 Oregon Material Recovery and Waste Generation Rates Report*
Population – Portland State University Population Research Center, tri-county mid-year estimates

Generation & Its Drivers

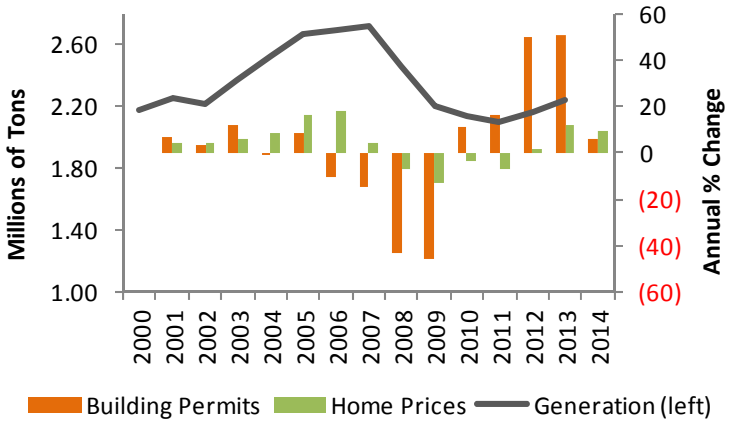
Generation & Labor Markets



Avg. Elasticities
(1992 – 2013)

1% Δ Employment ~
1 - 2% Δ Generation

Generation & Construction

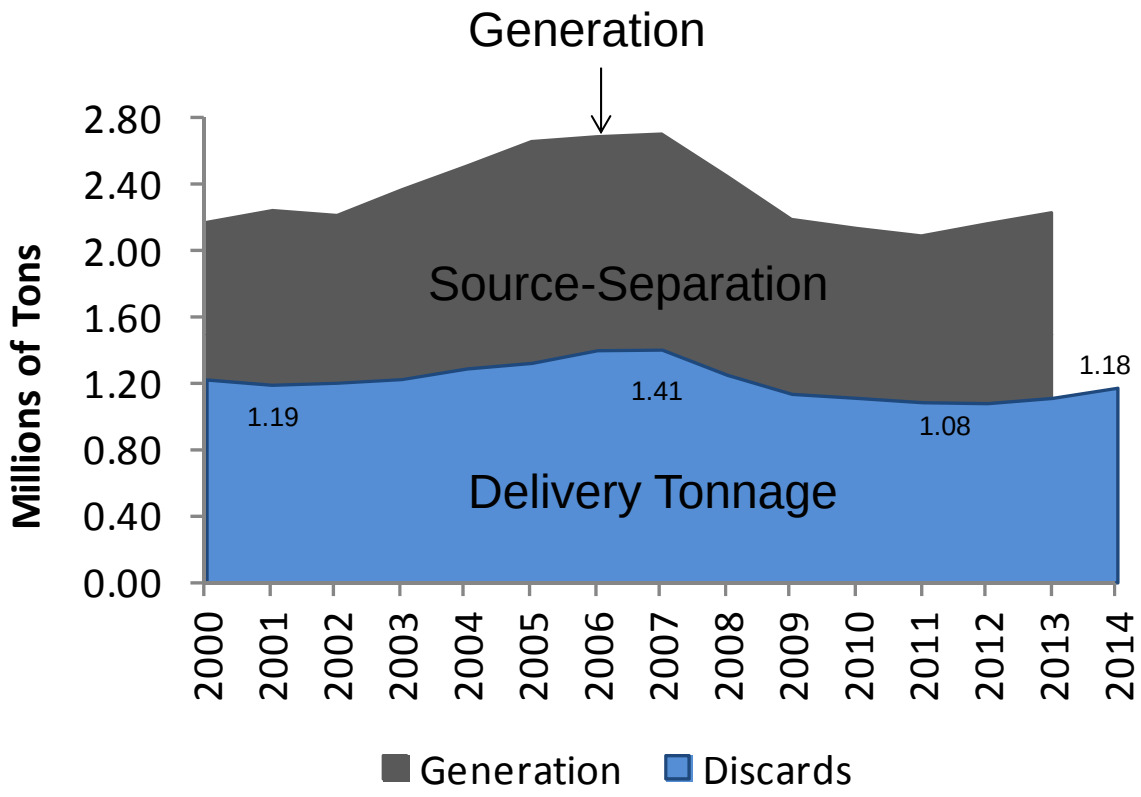


1% Δ Home Price ~
¼ % Δ Generation

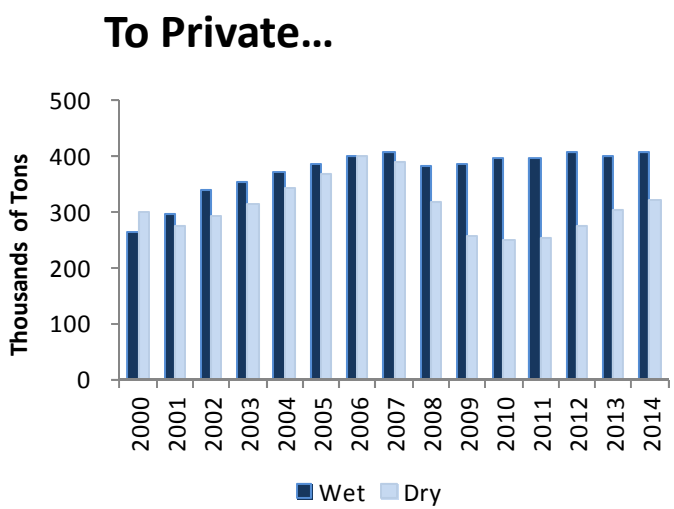
1% Δ Bldg Permits$_{t-1}$~
1/10 % Δ Generation

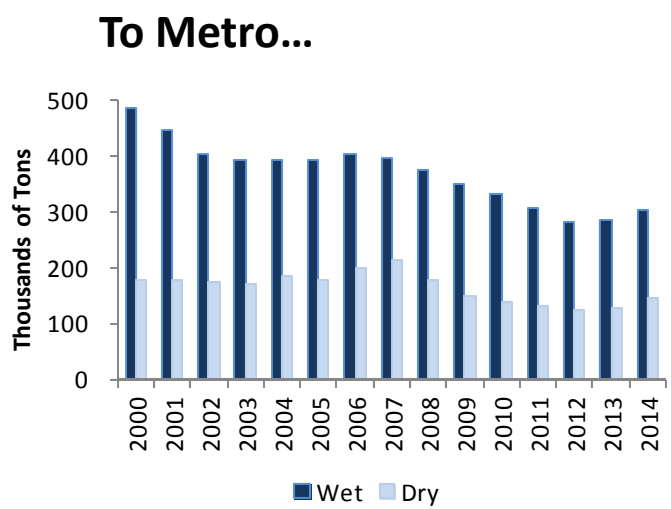
Source: Employment – Bureau of Labor Statistics, Portland-Vancouver-Hillsboro MSA, total non-farm
Permits – US Census Building Permits Survey, Portland-Vancouver-Hillsboro MSA, total residential
Home Prices – S&P/Case-Shiller, Portland, OR Home Price Index

Discards Delivered

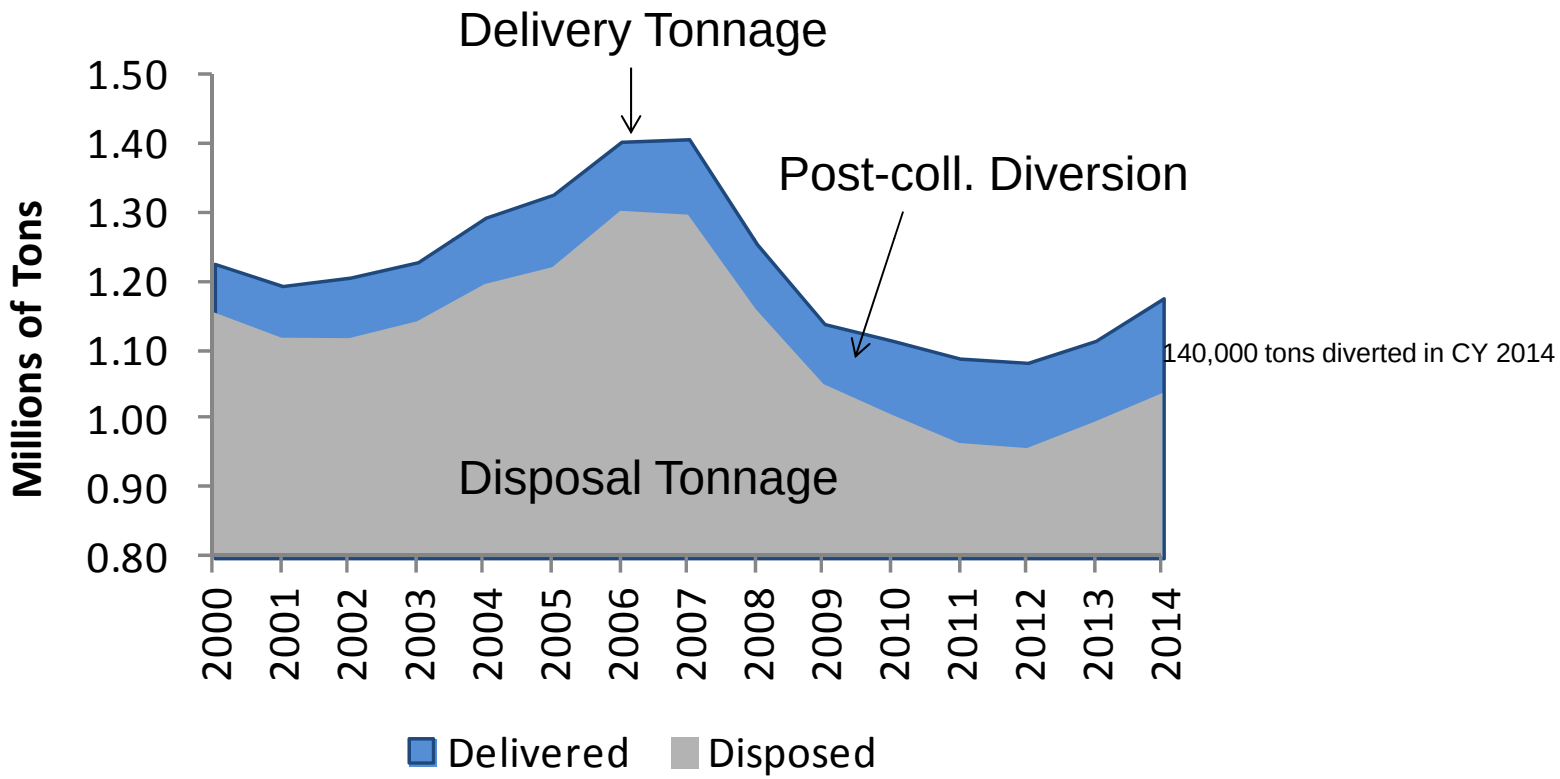


Discards Delivered



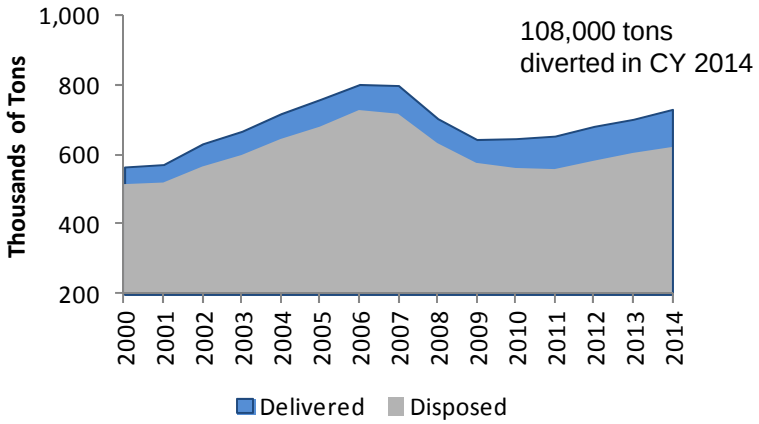


Discards Disposed

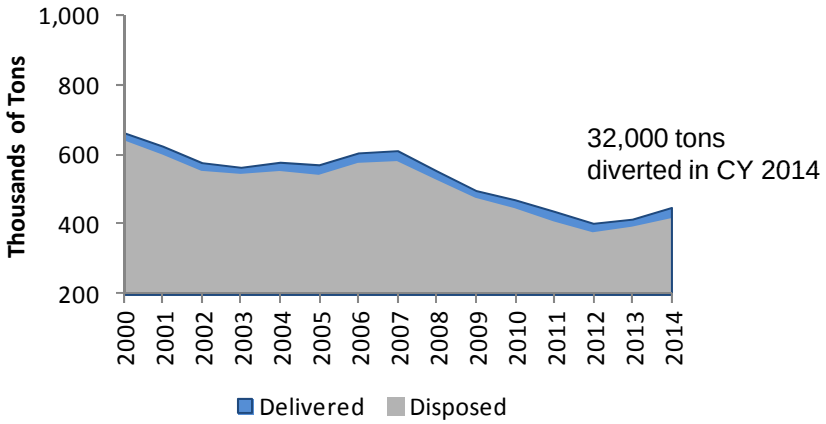


Discards Disposed

From Private…

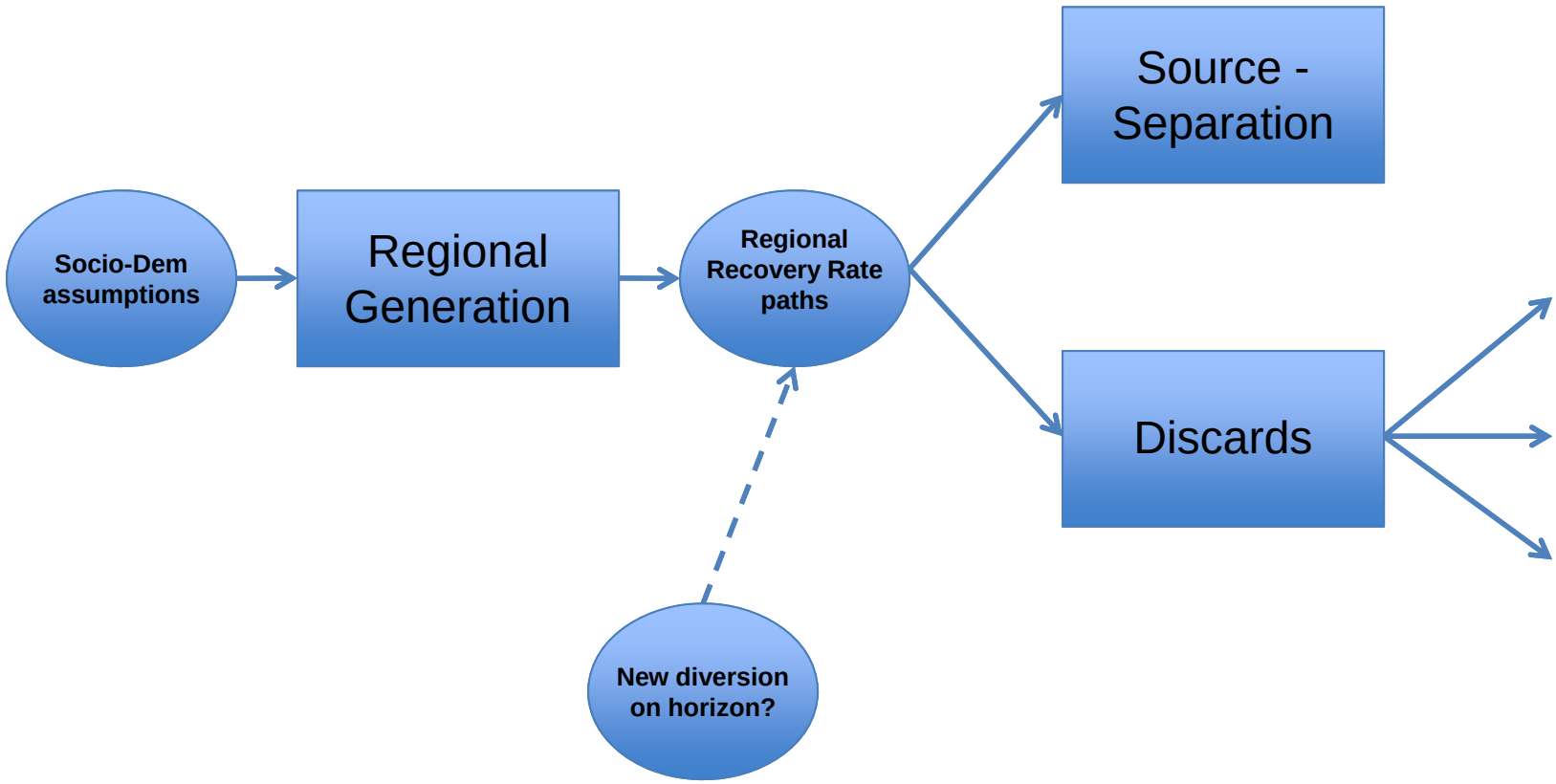


To Metro…

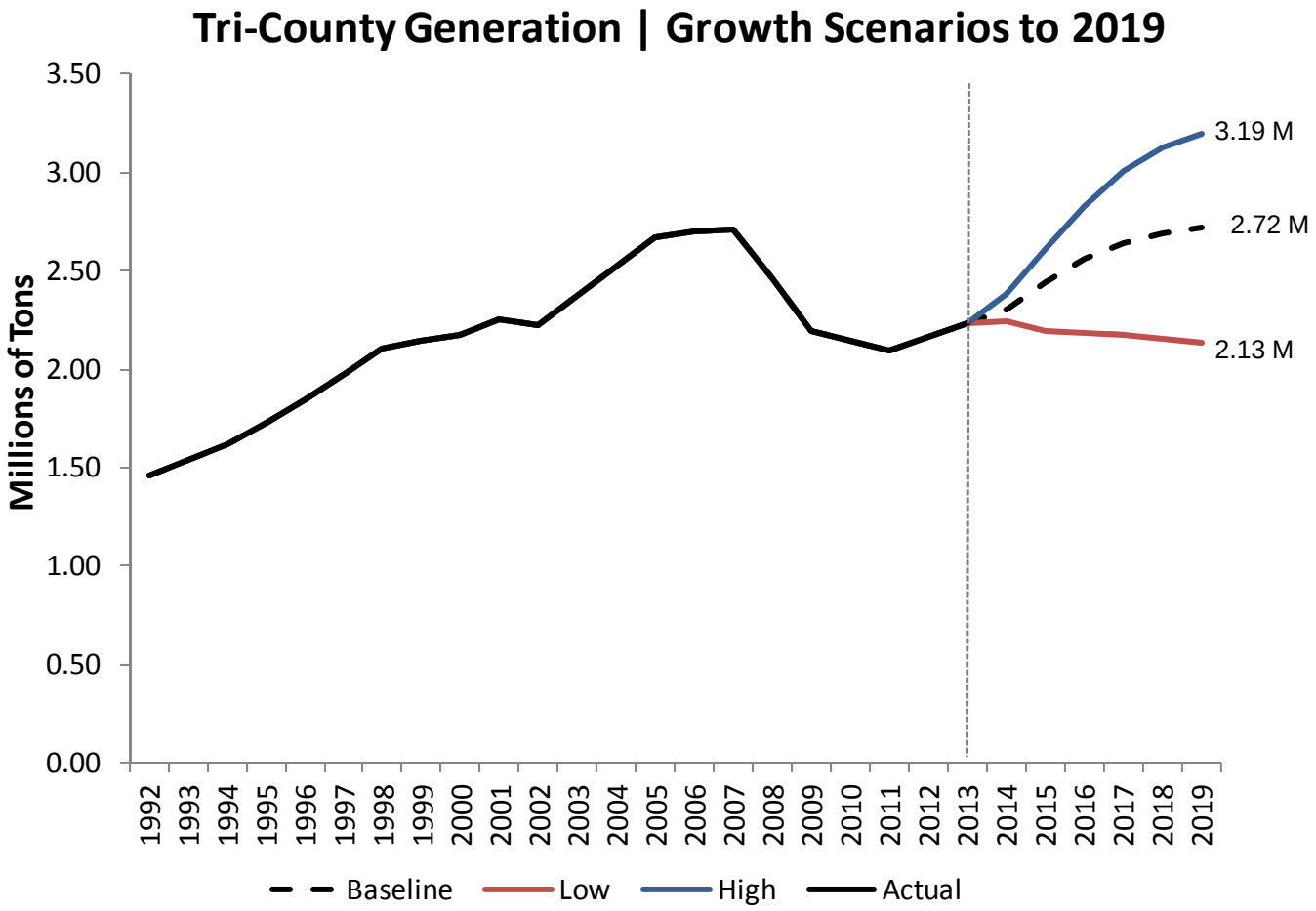


Tonnage Scenarios

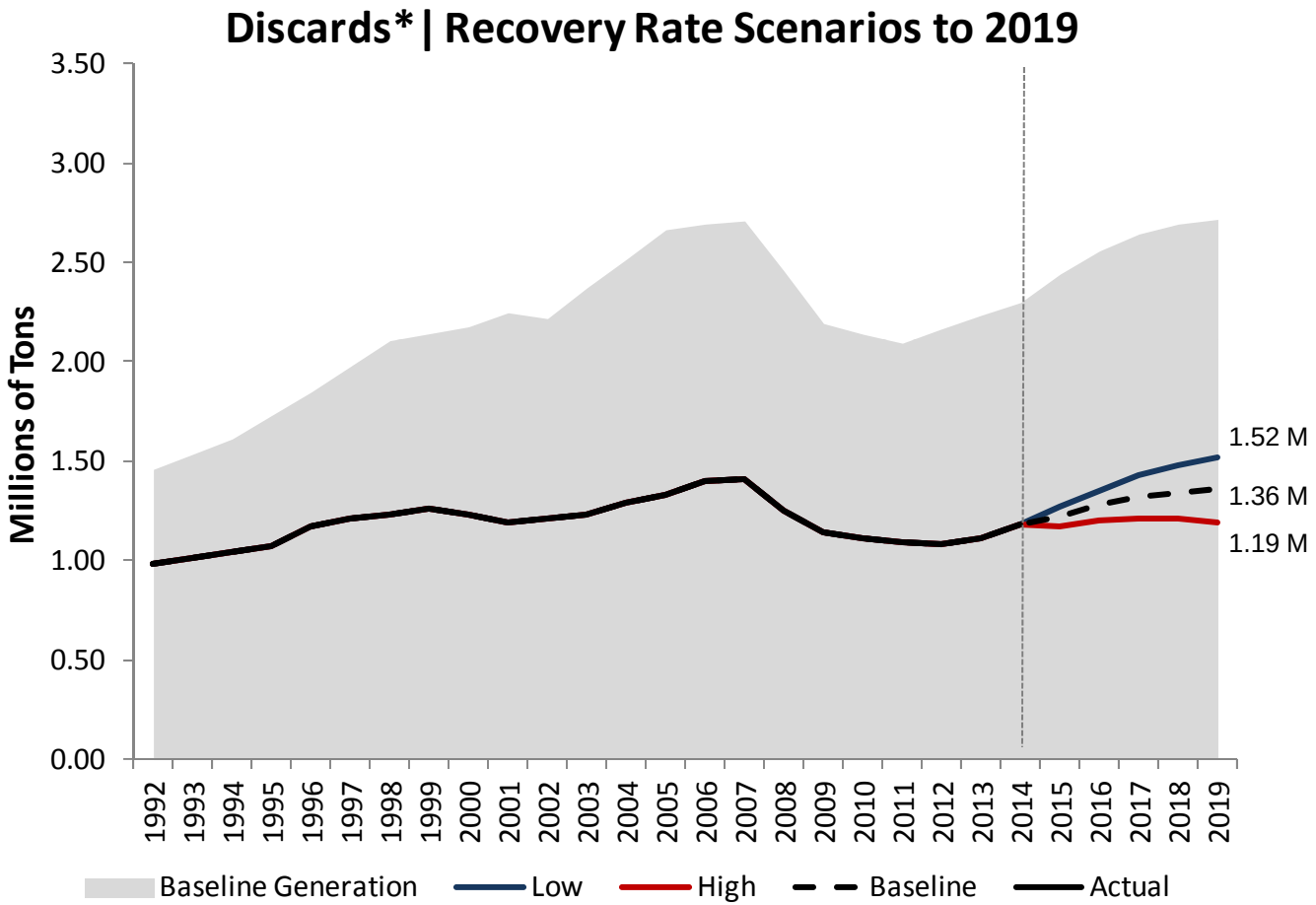
Modeling Approach



Regional Generation

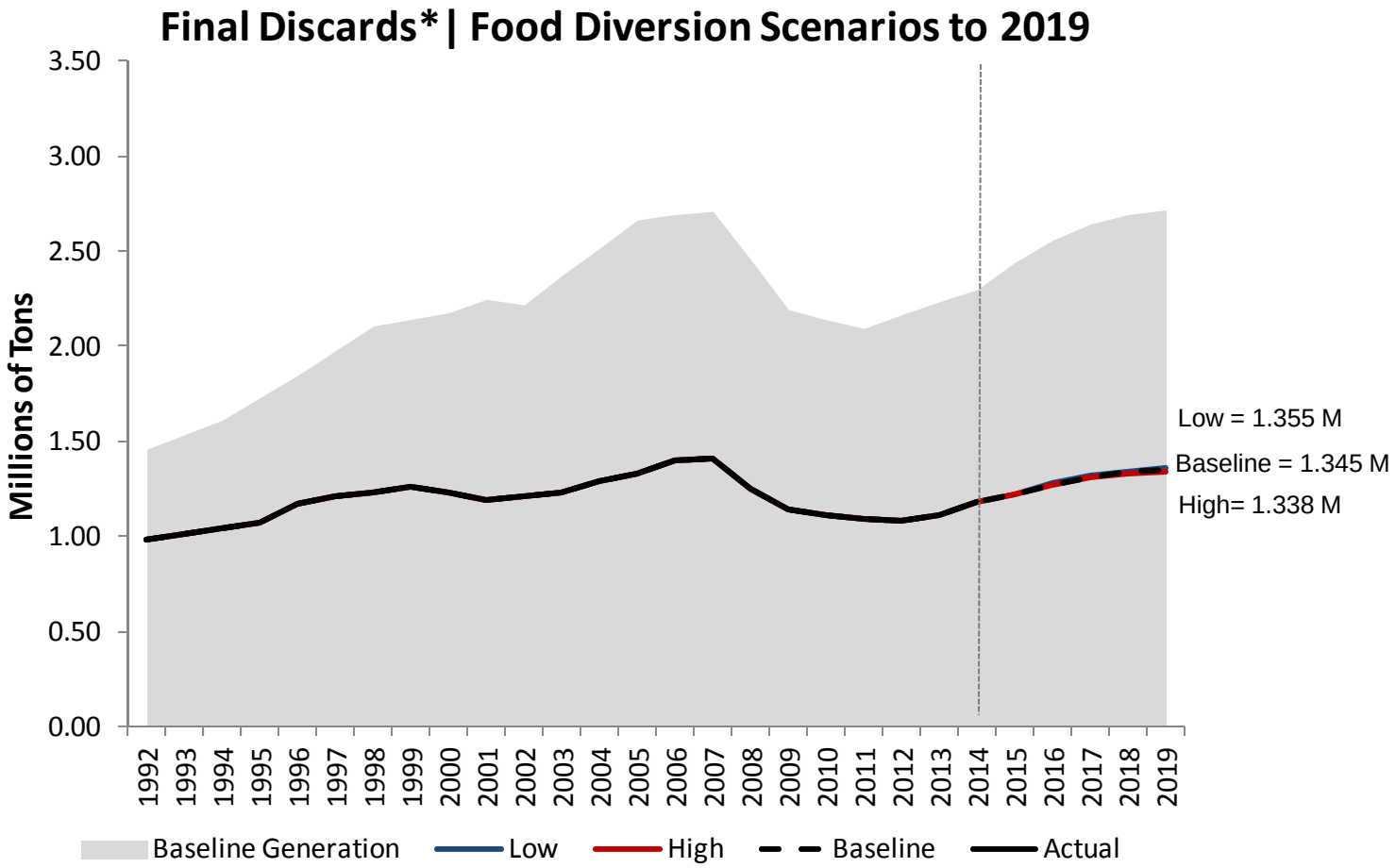


Discards



* Assuming Baseline generation growth

Final Discards



* Assuming Baseline generation growth; Baseline Recovery Rate growth

Questions?