

Recycling & Climate Change

Dr. Jeffrey Morris

Sound Resource Management

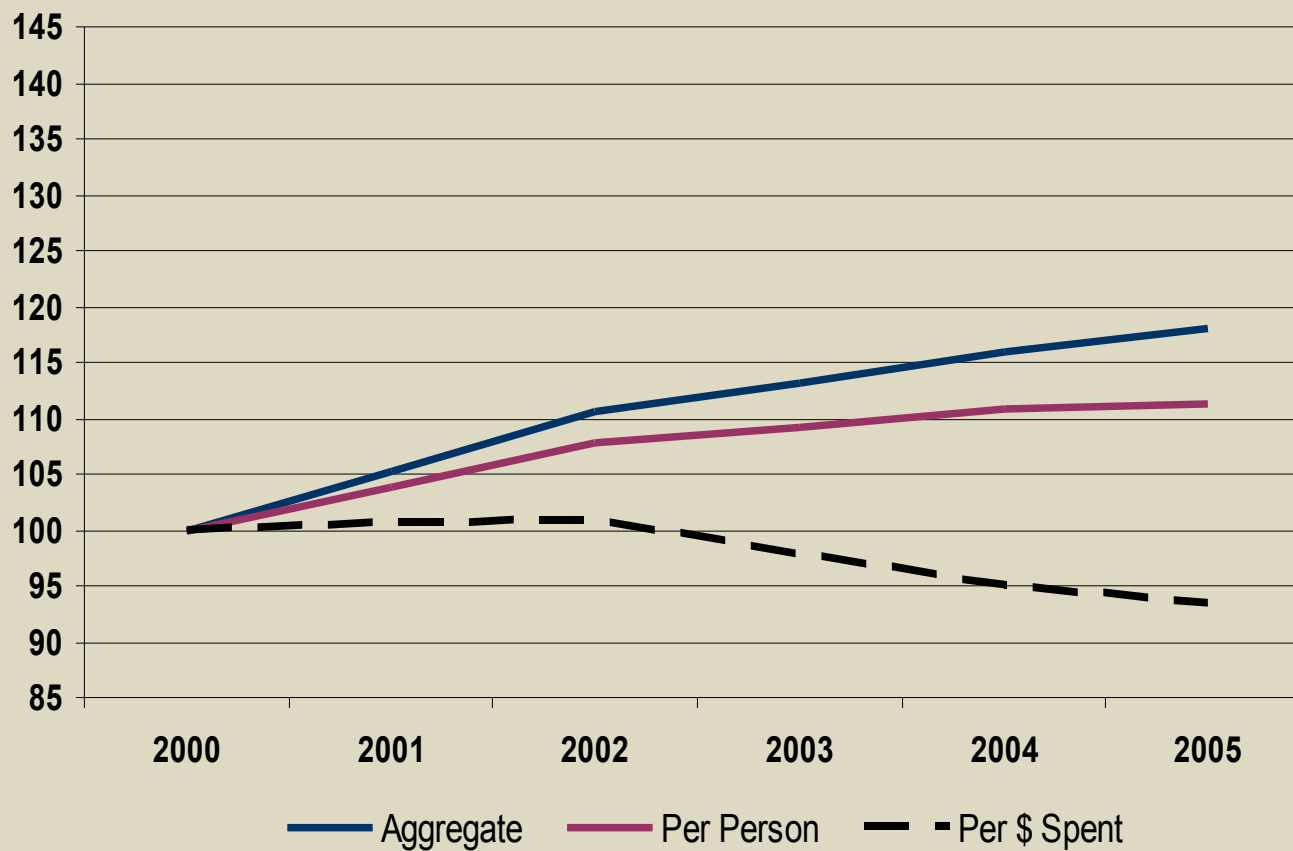
Olympia, WA

jeff.morris@zerowaste.com

Tel 360.867.1033

Resource Recycling Conference -- Oct 27, 2010

Consumer Climate Change Index (2000 = 100)

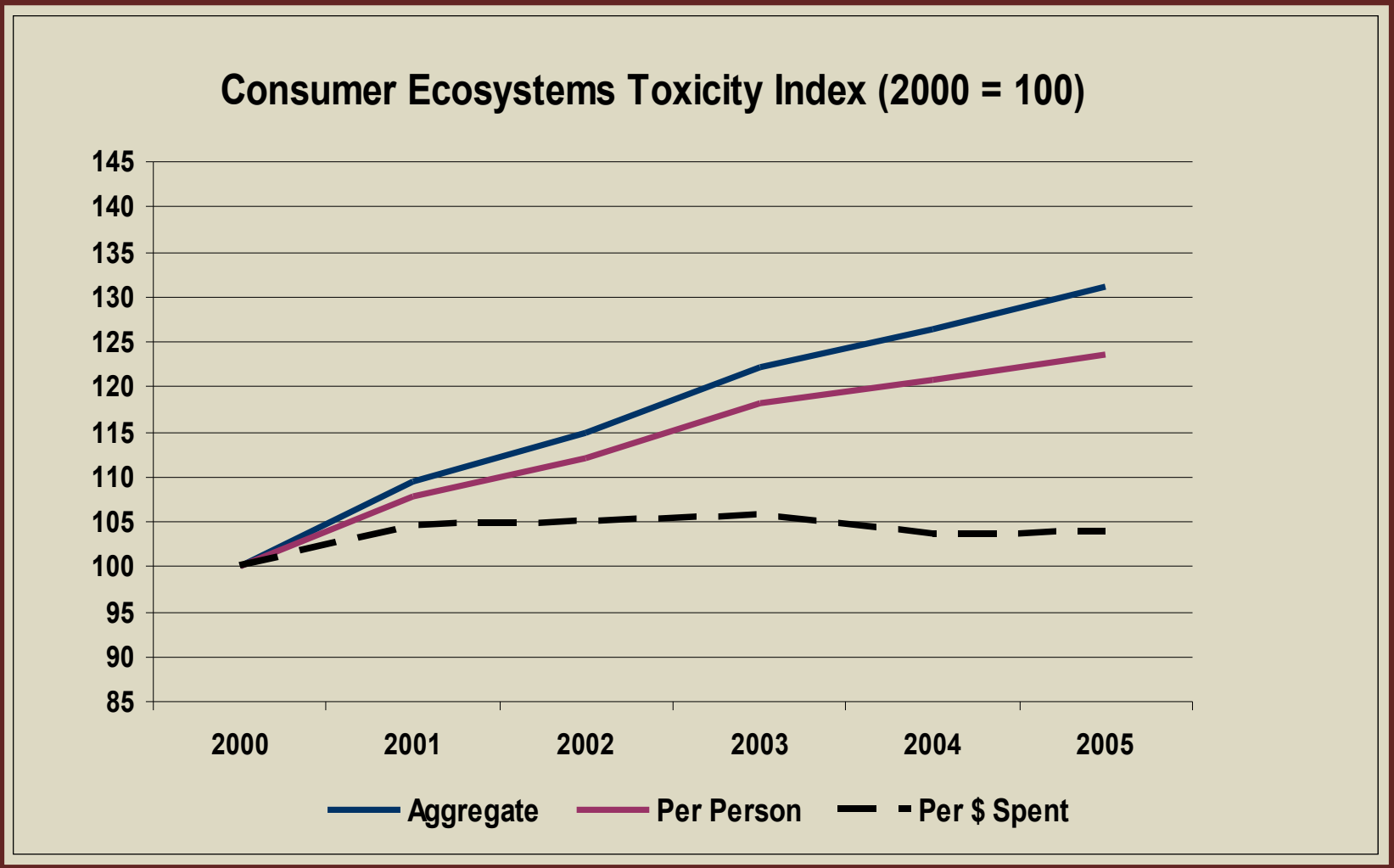


Annual Excess Consumption

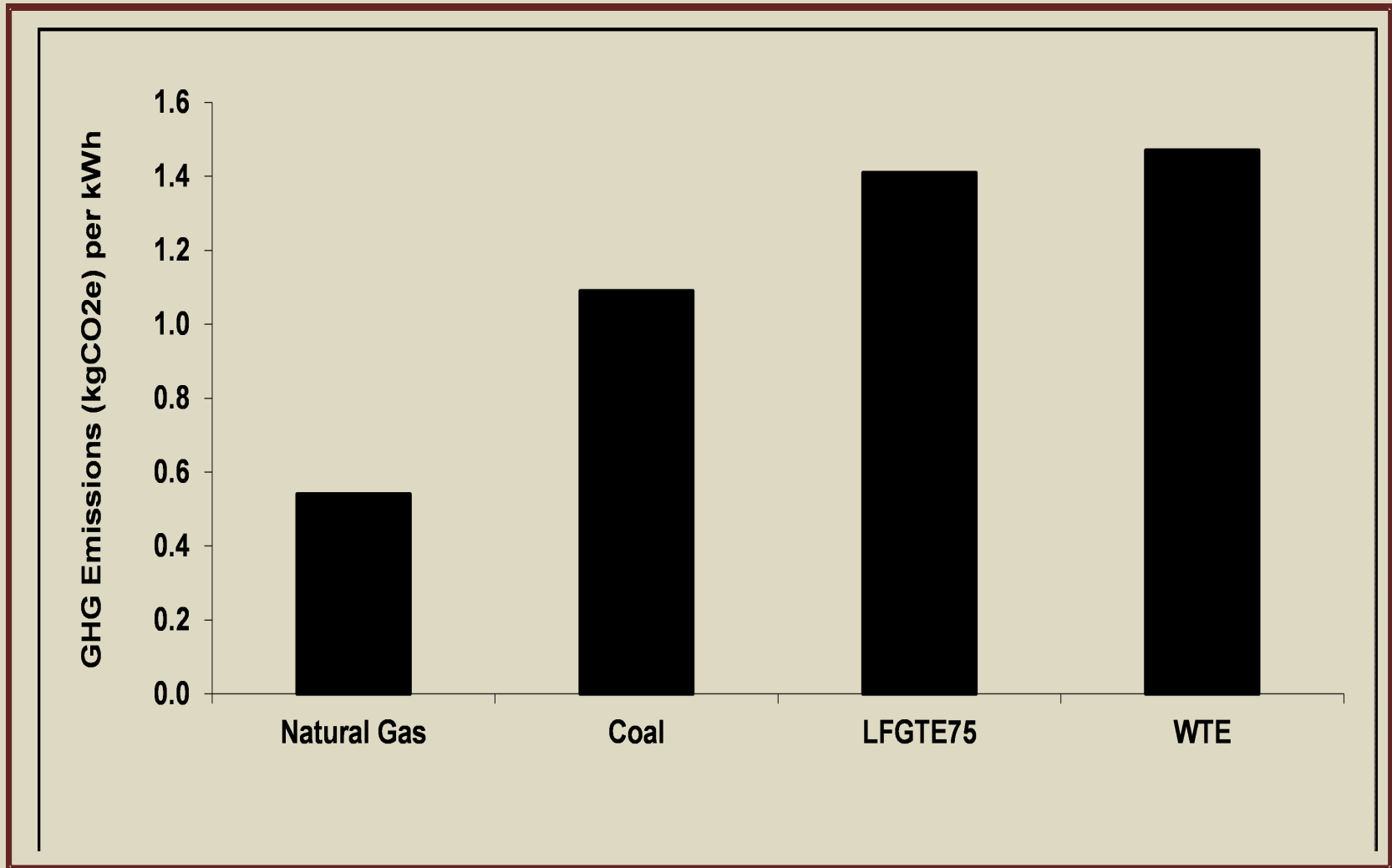
**WA Per Capita GHGs
~ 20 MTCO₂E**

**Earth's Forest & Ocean Sequestration
< 5 MTCO₂E**

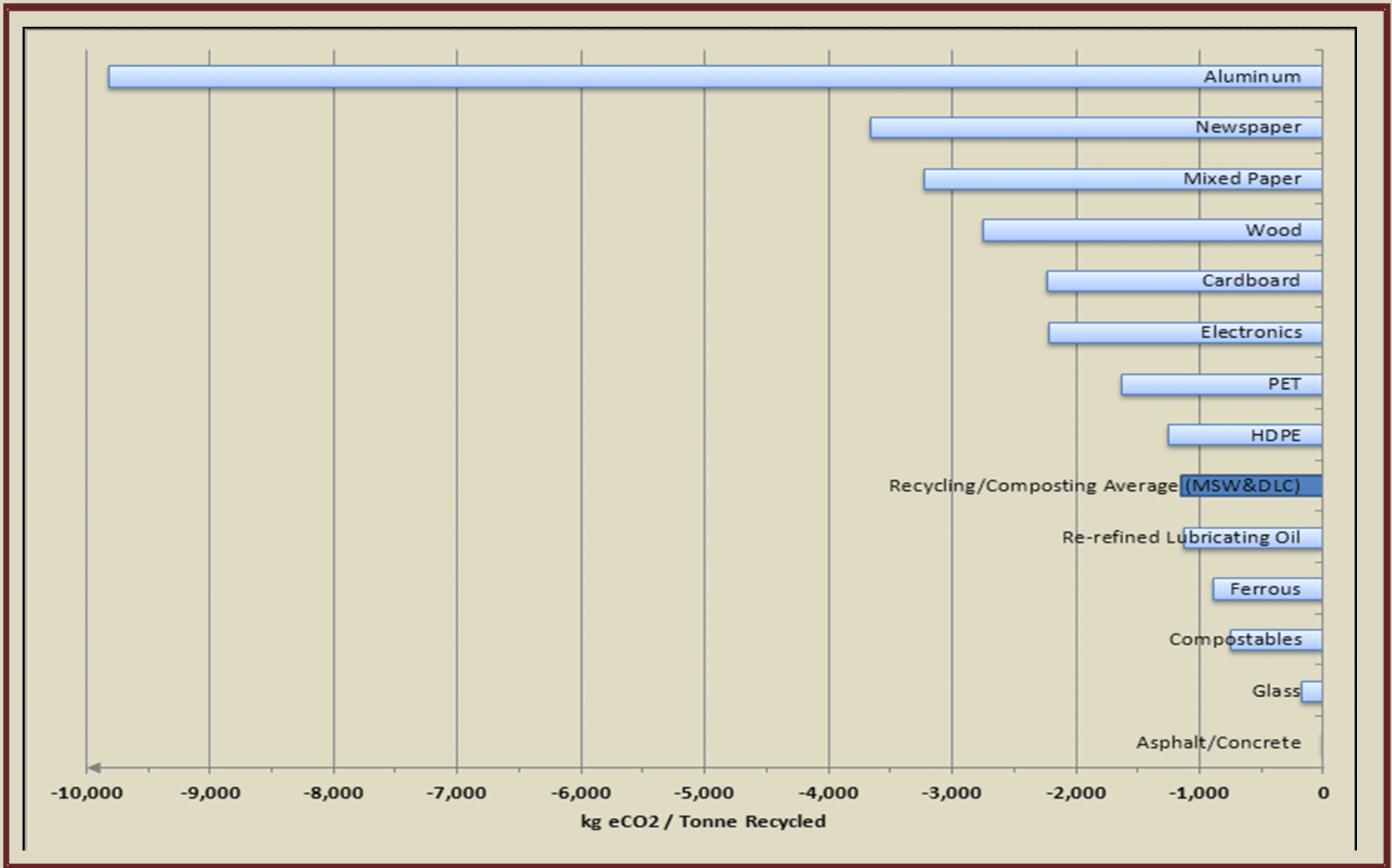
WA CEI - Ecosystems Toxicity Component



GHGs from Electricity Generation

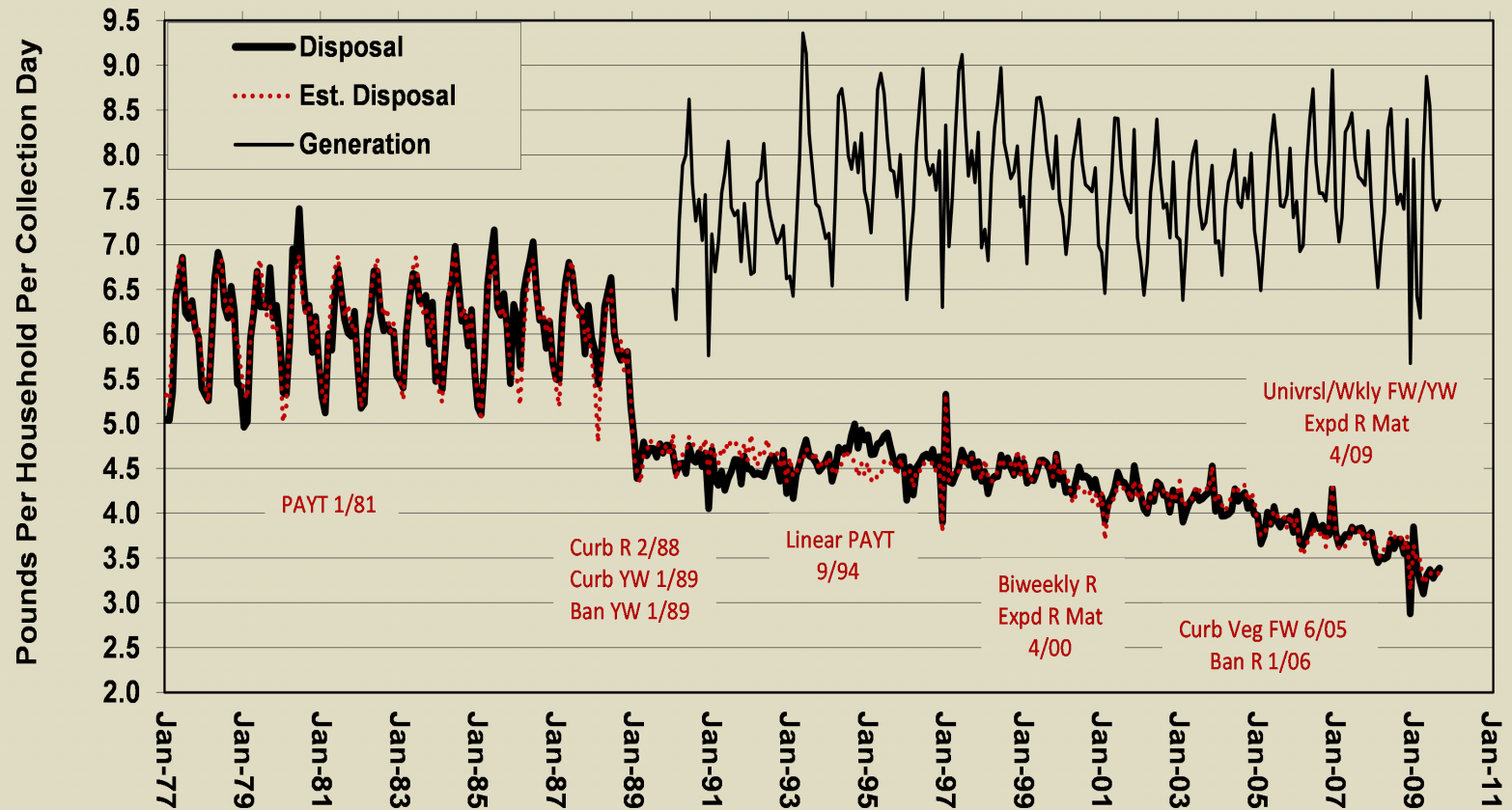


GHG Reductions per Ton Recycled

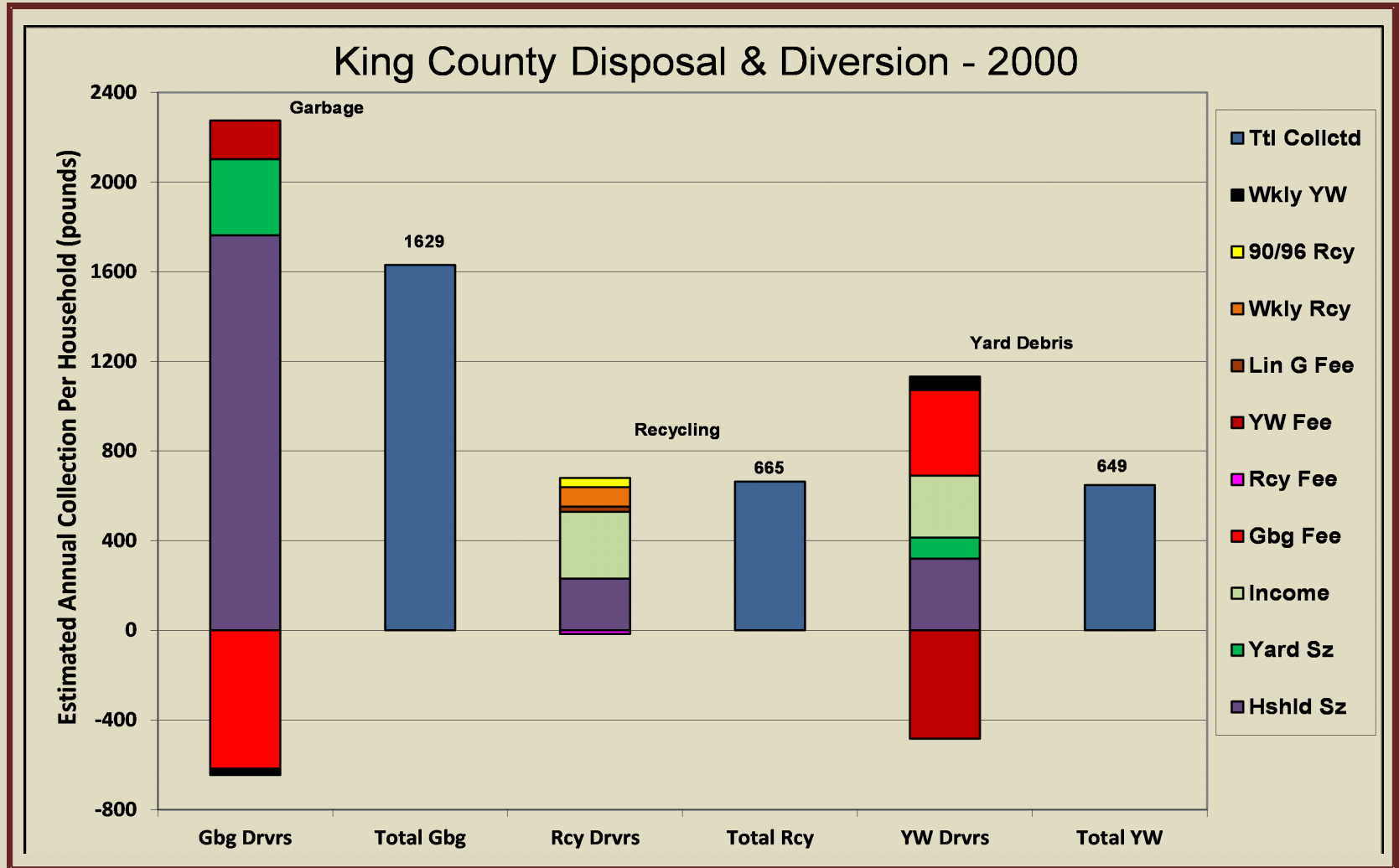


What Drives Diversion (time series view)

City of Seattle Residential Waste Generation & Disposal



What Drives Diversion (cross section view)



Jerry's To Do List

Reduce fuel use

- Bin/cart set out only when full
- Bin/cart set out alongside neighbor's
- Every other week collection
- Optimize routing
- Driver training
- Use local markets

Expand recycling & composting systems

- Target all households
- Compost food scraps
- Serve small businesses
- Use incentives to boost participation (PAYT, RecycleBank)
- Mandate participation
- Ban materials from garbage collection/disposal

Jerry's To Do List (continued)

Purchase recycled content products

Ban products

Support EPR (extended producer responsibility)

Undertake comprehensive waste reduction projects

Review GHG impacts of diversion program options

Work to develop recycling markets

Consider biofuels



Thank you.

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