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Recycling Transfer Options

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Transfer of Recyclables



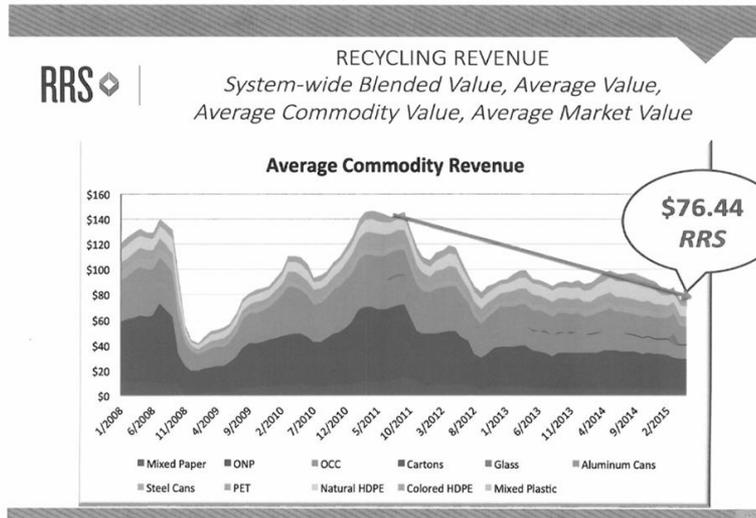
Recyclables on the Move

*“ Dynamics of Processing
Recyclables is Changing”*

- Single-stream programs now offered in most areas
- Regional MRF infrastructure has grown (thru-put)
- Economic value of recycling commodities has plummeted

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Economic Value of Recyclables



When value drops, what happens ?

- “High cost” recycling operations shut down
- Recyclables transferred to more cost-effective MRFs
- New fees assessed to process recyclables
- Increased scrutiny on quality & composition of recyclables



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Rumpke Recycling Transfer



Various Types of Transfer Options

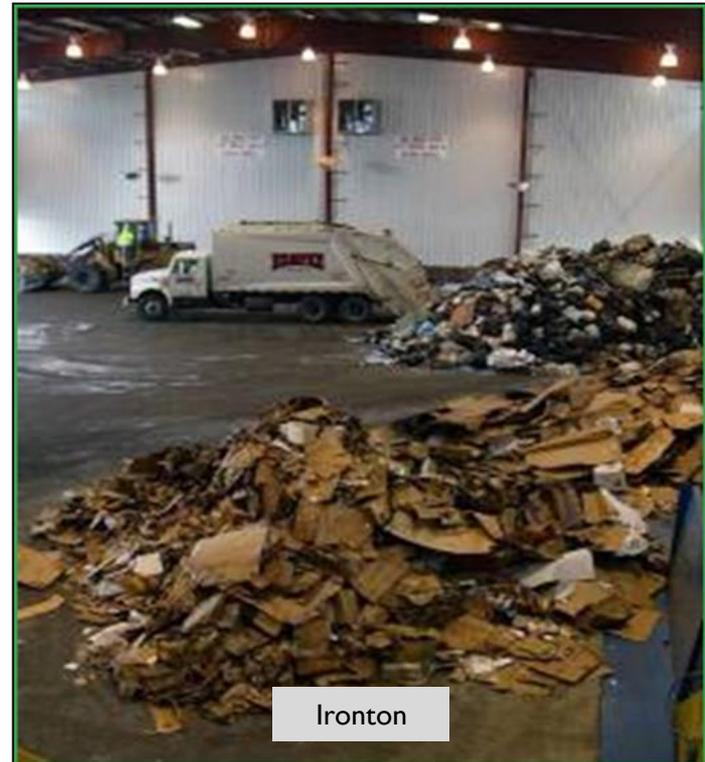
- Rumpke currently operates eight(8) recycling transfers
- Range in size and costs
- Vary from no sortation to extensive “pre-sortation” to remove targeted items
- Size and investment contingent on several variables

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Rumpke Recycling Transfer

Three(3) Categories

- Direct Transfer
 - no sortation, no compaction
- Transfer & Compaction
 - no sortation, compaction applied
- Pre-Sort, Compaction, Transfer
 - capital costs for pre-sort line
 - compactors or transfer station
 - volume and distance to MRF



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Direct Transfer Recyclables

Category I

- Rumpke operates five(5) direct transfer sites
- No separation of materials or compaction occurs
- Part of existing operations
- Downside: light weights cause higher transfer costs and recyclables can be exposed to weather



Compaction & Transfer Recyclables

Category II

- Rumpke operates two(2) compaction/transfer sites
- No separation of materials
- Utilizes compaction equip.
- Upside – maximize wghts & double “covered” storage
- Downside - cost of compaction equipment & specialized trailer



Pre-Sort, Compaction, Transfer Recyclables

Category III

- Rumpke operates one (1) Pre-Sort, Compact, Transfer
- Don't transfer trash, glass or cardboard due to costs
- Positive value remaining
- Upside – maximize value vs. dump/transfer
- Downside - cost of equipment / need volume to support investment



Pre-Sort, Compaction, Transfer

“closer look”

Sorting Statistics

- Dayton transfers 59% to Rumpke Cincinnati MRF
- Dayton system sorts out 41% of all inbound
- Presort composition:
 - Mixed Glass 16%
 - Cardboard 13%
 - Trash 11%
 - Metal Scrap 1%



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Pre-Sort, Compaction, Transfer “closer look”



Screened Glass

- Glass plays a significant role in Rumpke’s decision to transfer recyclables
- Most direct path to the Dayton Glass Plant
- Glass is such a large percentage of stream
- Removal of combustibles

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Existing Resources



Utilize what is available

- Area where “outside the box” ideas can work
- Goal to keep transportation cost under \$20/ton
- A covered, weather-protected shelter is best
- Material quality is our biggest challenge

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