



Patty Moore, Moore Recycling Associates Inc

ECONOMIC & ENVIRONMENTAL BENEFITS OF RECYCLING PLASTIC



OVERVIEW

Plastic Scrap Pricing
Market Drivers & Influences
Market Forces
New Collection
Conclusions

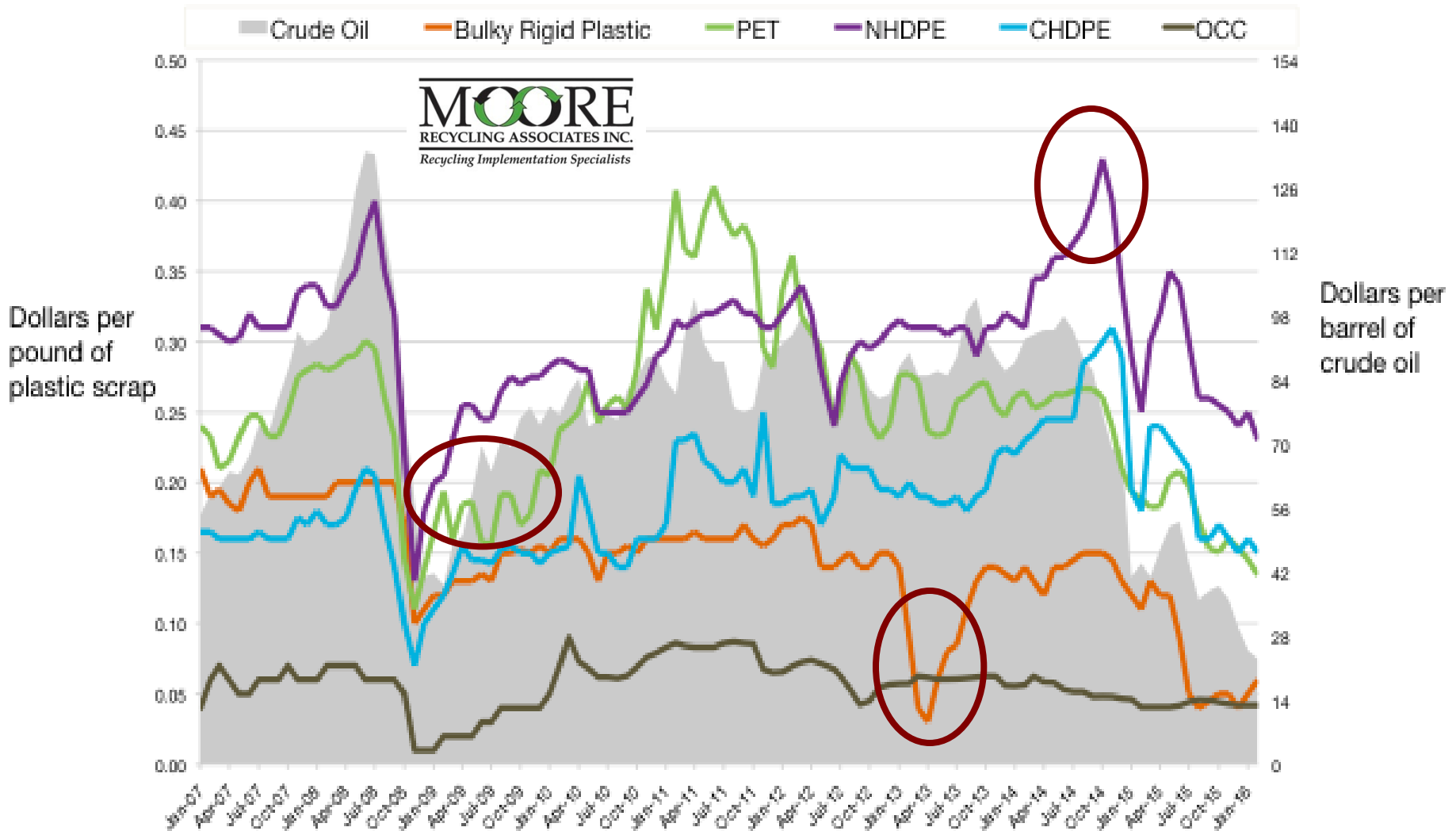


Market Drivers

- The price of natural gas, petroleum and derivatives
- Available virgin resin production capacity relative to demand
- General economic conditions
- The supply of industrial scrap or off-spec material
- **Available recycled resin production capacity relative to demand**

Historical Plastic Scrap Price vs Oil

2007 to-date

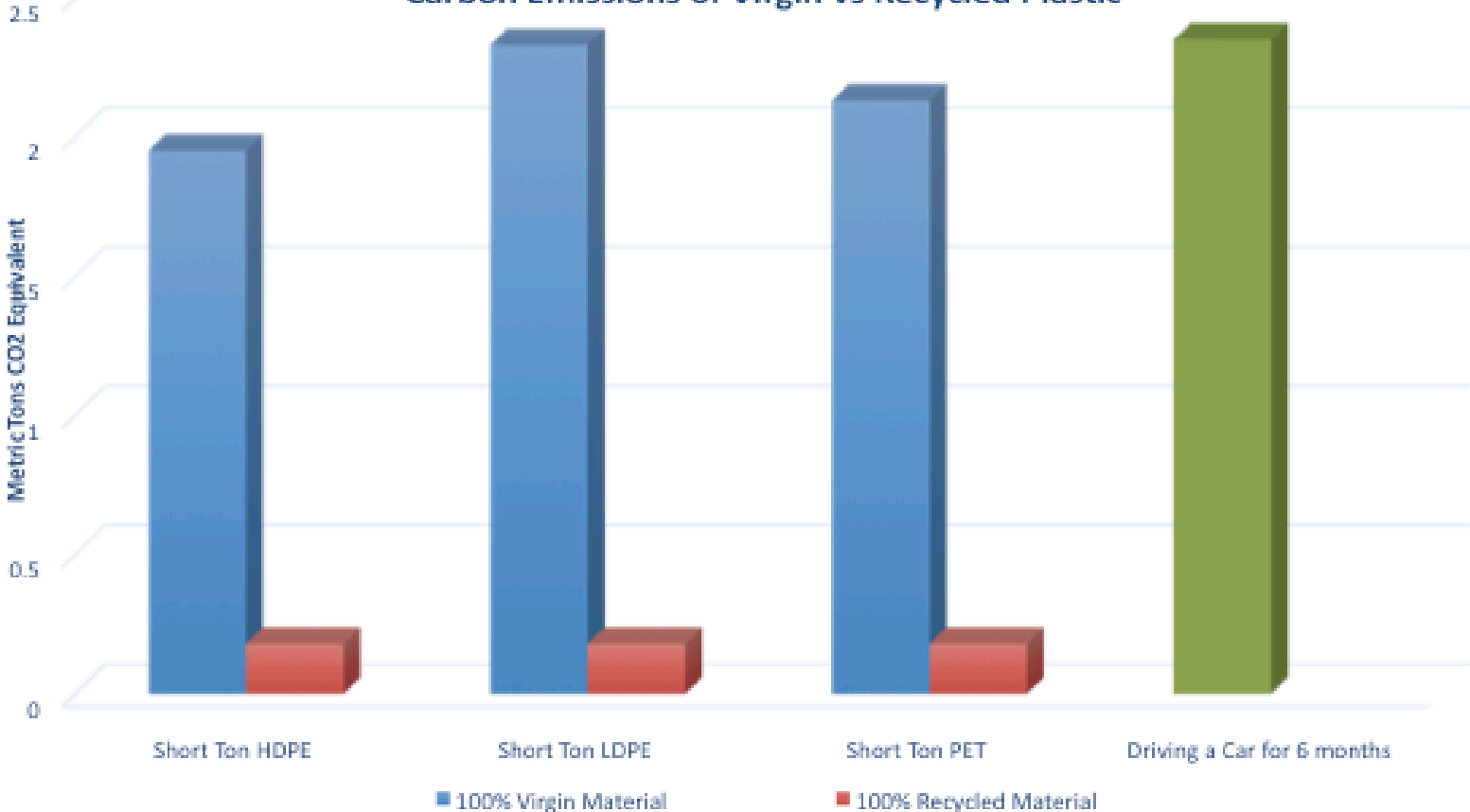




Market Influences

Better Times Are Coming!

Carbon Emissions of Virgin vs Recycled Plastic



Data source: EPA Waste Reduction Model (IWARM)

Declaration of
the Global Plastics Associations
for Solutions on Marine Litter



www.marinedebrisolutions.org/global

 **Plastics**
The Material for the 21st Century

Declaration for Solutions on Marine Debris

- Announced at UN/NOAA Marine Debris Conference, March 2011
- Six-point strategy for industry action
- Advocates close cooperation with range of stakeholders to create solutions
- >60 associations from 34 countries
- 185 projects since launch in 2011

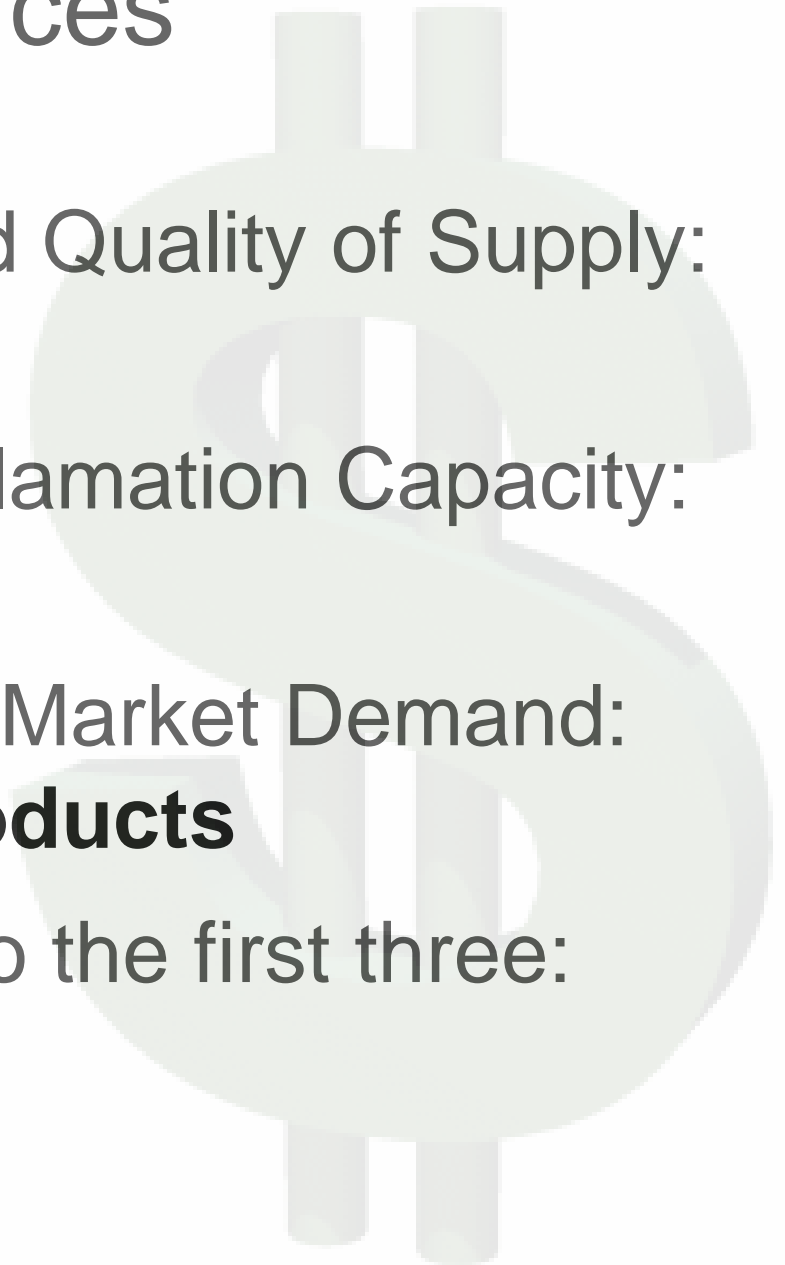


	Direct	Supplier	Induced	Total
Jobs	149,010	171,350	151,227	471,587
Wages	\$11,496,501,800	\$11,344,450,100	\$7,950,256,600	\$30,791,208,500
Economic Impact	\$45,644,002,300	\$35,727,836,800	\$24,442,618,900	\$105,814,458,000



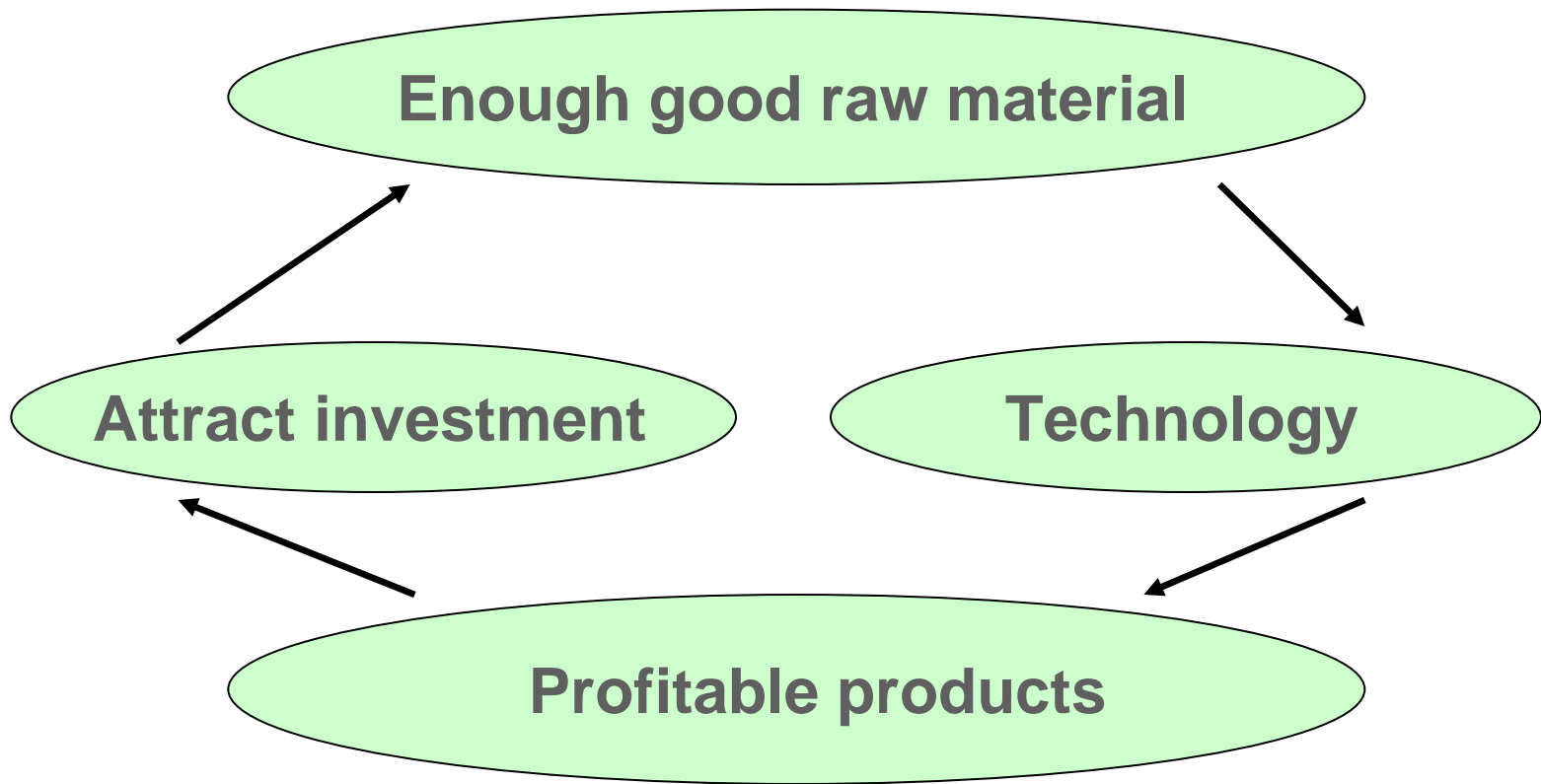
Market Forces

- Availability and Quality of Supply:
Collection
- Adequate Reclamation Capacity:
Technology
- Sufficient End Market Demand:
Profitable Products
- Investment into the first three:
\$\$\$





Like all manufacturing, Plastic Recycling must...



Recycling: Is a Business: with a social component)

Source: Dave Cornell



Investment Issues

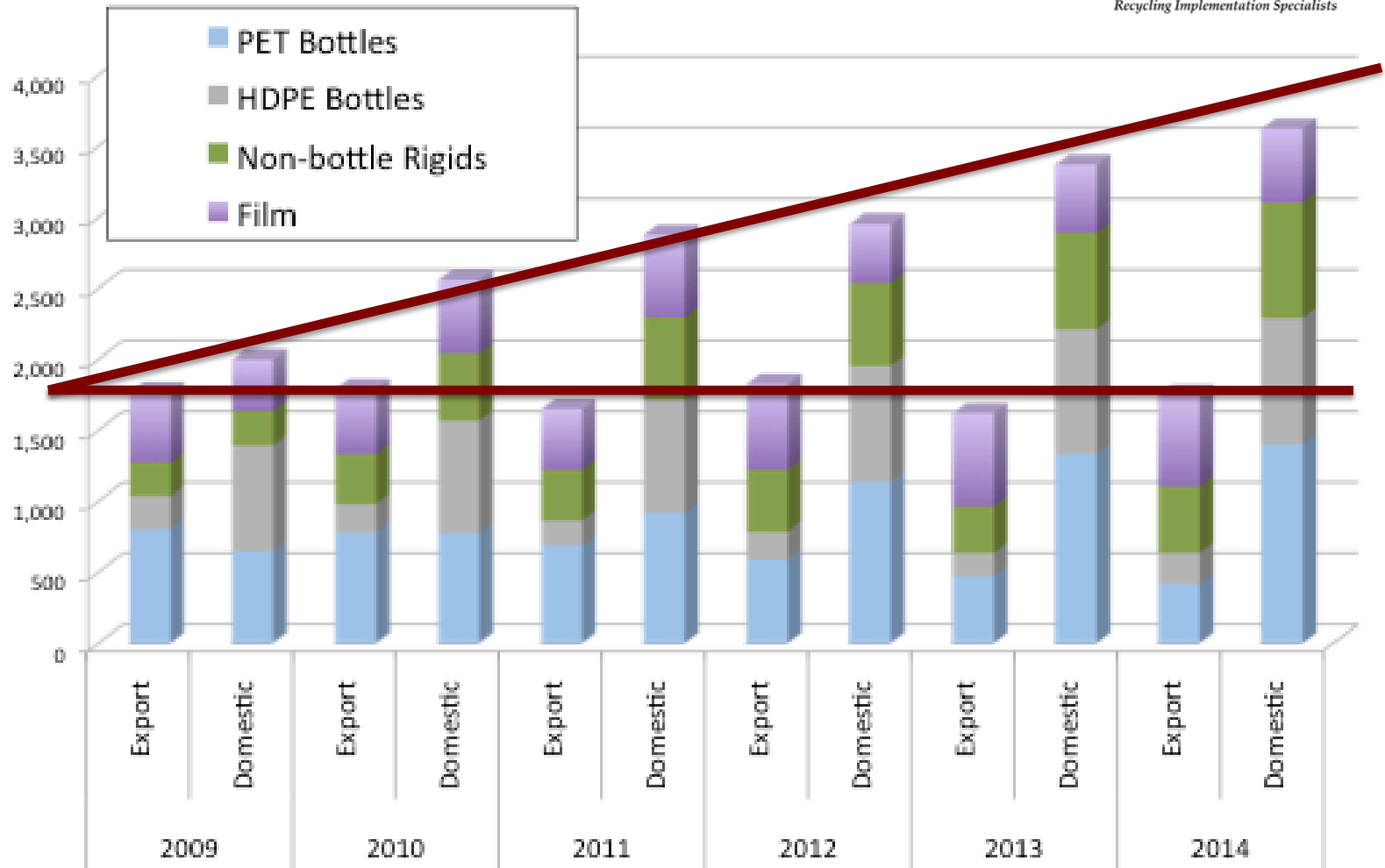
Existing reclamation business model is tenuous, limiting access to capital

- Most orders month to month, no long term contracts
- Resin segment has little vested interest
- Lack of clear market signals from Public Sector: no clear public policy on PCR use, thus Converters and Brand Owners have demonstrated inconsistent support
- Supply and Technology issues: Quality and Design for Recyclability

U.S. Postconsumer Plastic Recycling

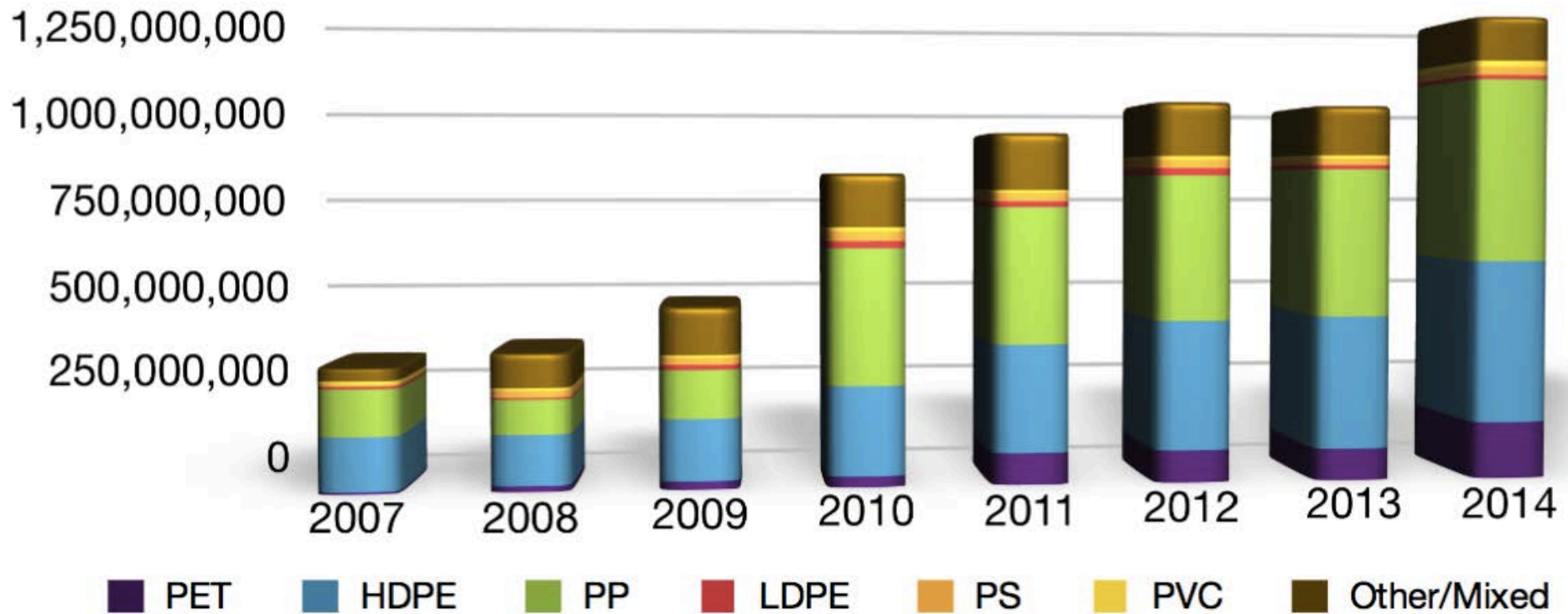
in millions of pounds

MOORE
RECYCLING ASSOCIATES INC.
Recycling Implementation Specialists



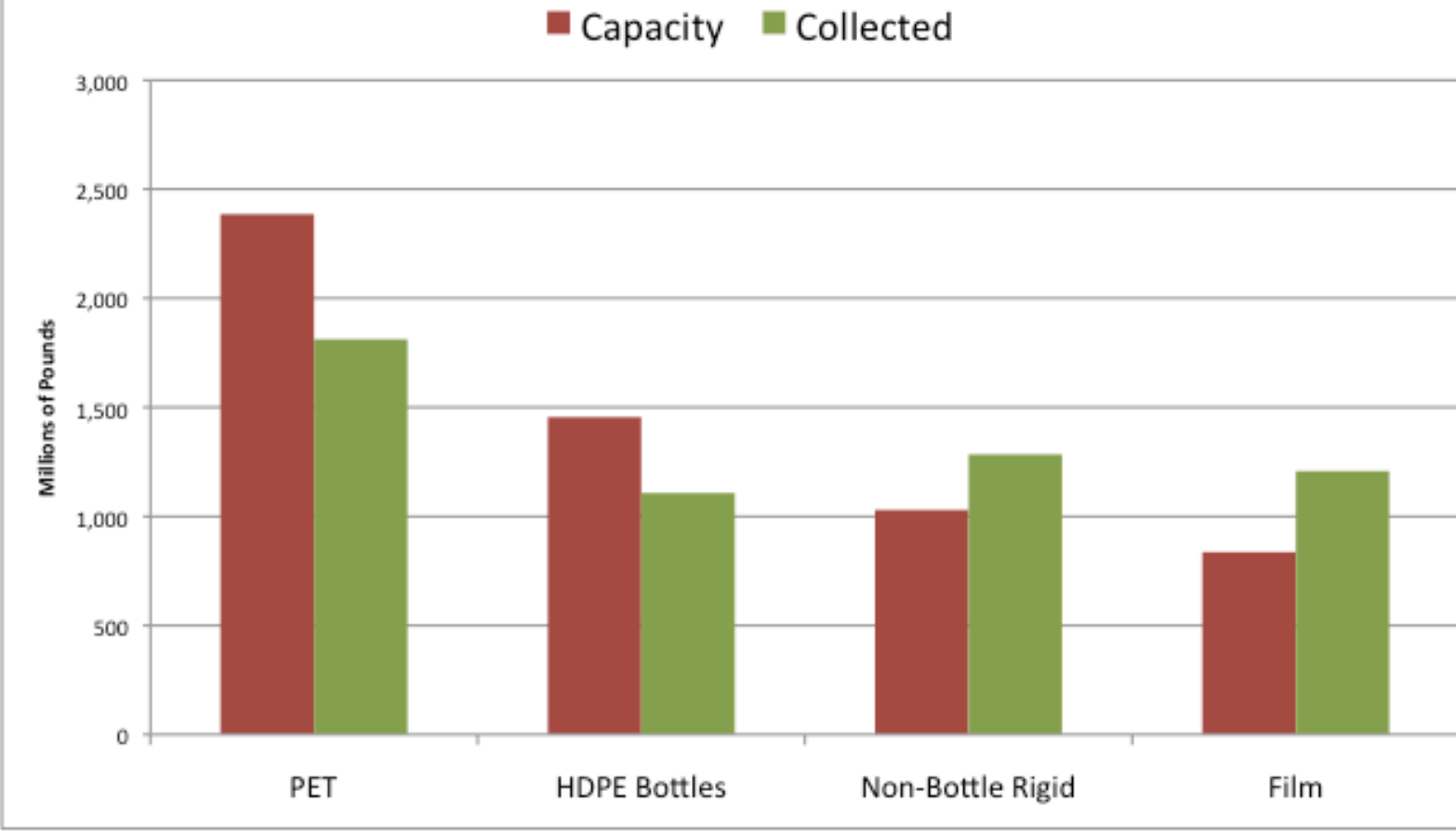
Non-Bottle Rigid Plastic

U.S. Non-Bottle Rigid Plastic Recovered Year over Year by Resin² (pounds)





Reclamation Capacity vs Collection



Find **AND USE** the Terms & Tools

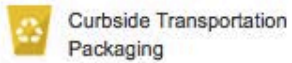


www.RecycleYourPlastics.org/termsandtools

www.RecycleYourPlastics.org/commodityterms



RecycleMorePlastic.org: Foam PS



Curbside Transportation Packaging



Curbside Food Packaging



Curbside Both



Drop-off Transportation Packaging



Drop-off Food Packaging



Drop-off Both

Anthracite Recycling
900 Fifth Avenue Scranton, PA 18504 US
570-342-0666
Accept: Clean Food Packaging, Transportation Packaging
Program: Drop off

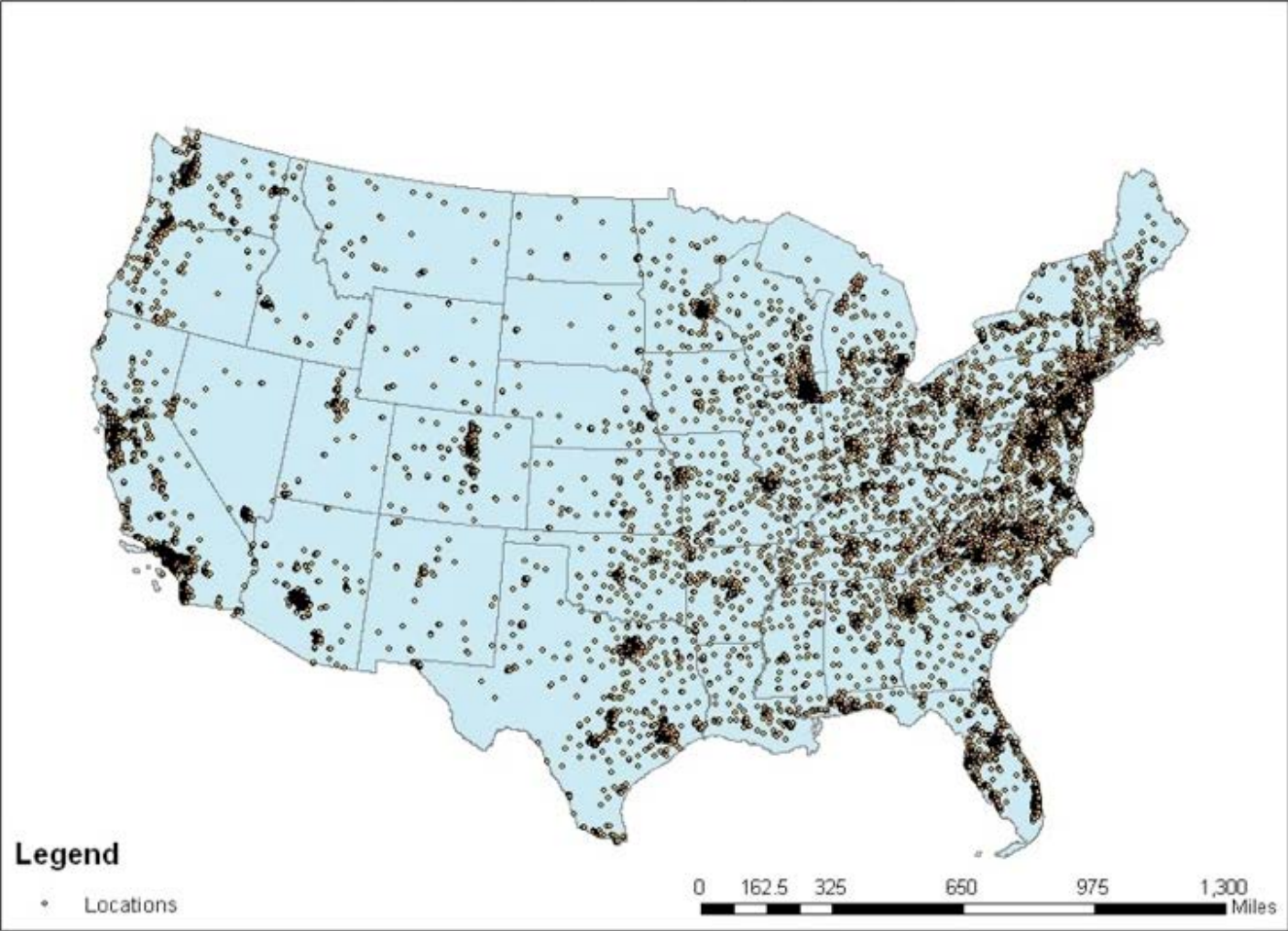
Powered By:
RecycleMorePlastic.org

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Please help us keep the map current. If you find a foam polystyrene recycling collection program that differs from the map, send feedback to info@recyclemoreplastic.org.

Film & Bags

United States Map of All Drop-Off Facilities





Conclusions

- Oil prices do not directly predict scrap prices
- Supply & Demand of scrap is the biggest influence
- Supply & Demand are influenced by many global forces: political, social, economic, natural and **QUALITY**



Resources

PlasticsMarkets.org

Connects Suppliers & Buyers of All Types of Scrap Plastic

PlasticFilmRecycling.org

Educate and Facilitate Film Recycling

RecycleMorePlastic.org

Resources to Grow Recycling of All Types of Plastic

MooreRecycling.org

Publications

PlasticRecycling.org

Association of Plastic Recyclers

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Questions?

Recycling Implementation Specialists



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