# Curbside Recycling Markets

Municipal Waste Management
Association
Fall Summit
September 17, 2005
Burlington, VT

**Chaz Miller Miller Recycling Associates** 

ALL PRICES AS OF AUGUST 31 UNLESS OTHERWISE INDICATED

- DATA FROM RECYCLING MARKETS.NET STARTING JAN 31, 2020
- TRENDS MORE IMPORTANT THAN SPECIFIC PRICE DATA

# YOU DON'T NEED TO TAKE NOTES, A PDF OF MY SLIDES W/SPEAKER NOTES WILL BE AVAILABLE FROM MWMA OR MYSELF

I'LL TALK ABOUT PRICES

- ABOUT UNIQUE CONDITIONS FOR TYPES OF PACKAGES
- ABOUT THE ECONOMY
- ABOUT WHERE MARKETS ARE HEADED

**BUT FIRST** 

# What Are These & Where Do They Go?



#### MONTGOMERY COUNTY DEP

### RECYCLABLES ARE SIMPLY RAW MATERIALS LOOKING FOR BUYERS

BECAUSE RECYCLABLES ARE BOUGHT NOT SOLD

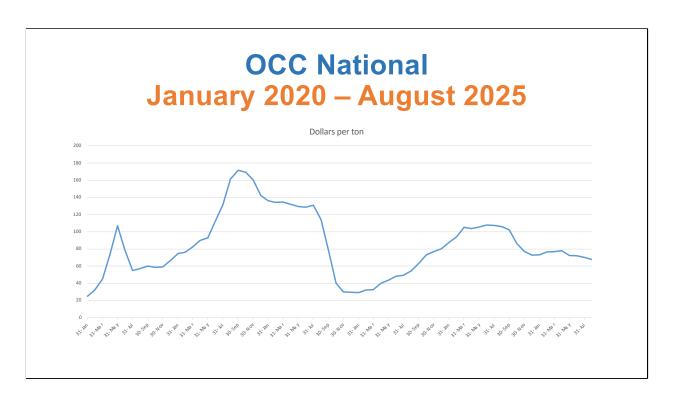
BUYERS ARE PURCHASING MANAGERS MAKING A BET ON THE FUTURE & HOW MUCH RAW MATERIALS THEY WILL NEED FOR THEIR PRODUCTS

THEY WANT

- CONSISTENT QUANTITY
- CONSISTENT QUALITY
- AT AN ACCEPTABLE PRICE
- RECYCLING MARKETS HAVE COMPETITIVE, SEASONAL, ECONOMIC & OTHER VARIABLES

NOTE: RECYCLABLES CAN BE CIRCULAR BUT MANY MARKETS AREN'T

MRFS ARE MORE INTERESTED IN REVENUE THAN BEING CIRCULAR



# DATA: RECYCLING MARKETS.NET OLD CORRUGATED CONTAINERS (OCC) (BALED) NATIONAL \$67.50 PER TON

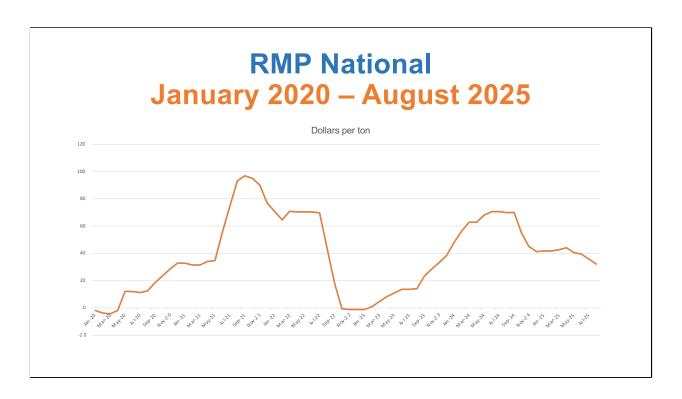
- DOWN \$2.50 FROM PREVIOUS MONTH (\$70)
- DOWN \$39.44 YOY (\$105.94)
- DOWN \$104.26 FROM SEPTEMBER 2021 HIGH (\$171.56)
- UP \$42.83 FROM 2020 LOW (\$24.69)
- UP \$45.31 FROM 2008 PRE COVID LOW (\$22.19)

### MARKETS PRIMARILY LINERBOARD OR CORRUGATED MEDIUM

- RAW MATERIALS FOR BOXES
- SOFT DEMAND FOR BOXES

HIGH - LOW PREVIOUS 20 YEARS FOR 0CC

- **HIGHS IN 2011** JULY 17 (\$180) & **2021** (\$171.56)
- LOWS IN DEC 2008 GREAT RECESSION & WINTER 2019 (\$22.19 & \$24.69)



# DATA: RECYCLING MARKETS.NET RESIDENTIAL MIXED PAPER (RMP) NATIONAL \$32.19 PER TON:

- DOWN \$3.75 FROM LAST MONTH (\$35.94)
- DOWN \$37.81 YOY (\$70)
- DOWN \$64.69 FROM SEPTEMBER-NOVEMBER 2021 HIGH (\$96.88)
- UP \$36.81 FROM 2020 LOW (-\$4.38)
- GENERALLY RISES & FALLS AT A DISCOUNT TO OCC
- SPREAD B/W OCC & RMP 52%: HIGH MEANING LESS INTEREST IN RMP
- SEPT 12 RMP DOWN 63 CENTS TO \$31.56

  MARKETS CAN BE SAME AS OCC BUT MORE LIKELY FOR LOWER
  GRADE PACKAGING OR PRODUCTS
- MOST MILLS USE RMP AS AN ADDITIONAL

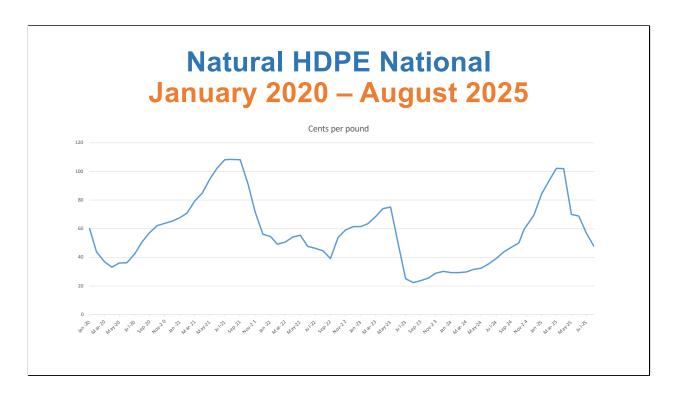
### **Recycled Paper Market Drivers**

### "You only need to make so many boxes"

- Box demand down since 2022
- 8 paper mills closing this year
- Closing excess production capacity should tighten markets

## BOX DEMAND DOWN AS UNIT SALES FOR CONBSUMER PACKAGING ARE GOING DOWN

- ONLY NEED TO MAKE SO MANY BOXES & THAT NEED IS LESS AF&PA DATA:
- CONTAINERBOARD DOWN 5% YOY
- OPERATING RATES DECLINE
- https://www.afandpa.org/news/2025/afpa-releases-q2-2025-containerboard-quarterly-report
- BOXBOARD FLAT
- https://www.afandpa.org/news/2025/afpa-releases-q2-2025-boxboard-quarterly-report ALMOST 10% LOSS IN BSF FOR CONTAINERBOARD LAST FOUR YEARS
- BOTH VIRGIN & RECYCLED CAPACITY CLOSING MORE VIRGIN



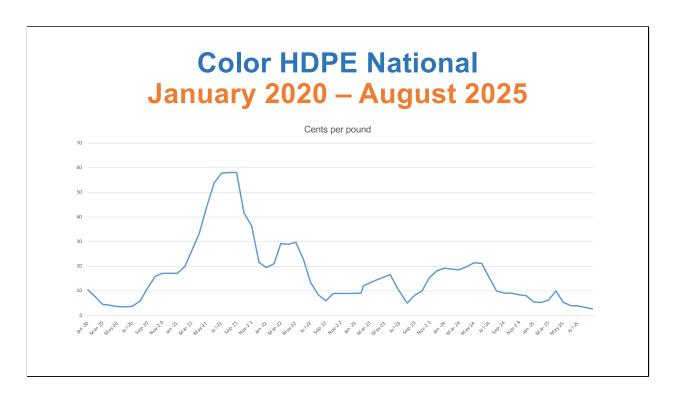
# DATA: RECYCLING MARKETS.NET NATURAL HDPE

### **NATIONAL 47.56 CENTS PER POUND**

- DOWN 9.25 CENTS FROM PREVIOUS MONTH (56.81 CENTS)
- UP 4.32 CENTS YOY (43.88 CENTS)
- DOWN 60.88 CENTS FROM AUG 21 HIGH (108.44 CENTS)
- UP 25.18 CENTS FROM POST COVID LOW (22.38 CENTS)
- UP 35.82 CENTS FROM 2008 LOW (11.69 CENTS)
- SEPT 12 DOWN 3.43 CENTS TO 44.13 CENTS

### MARKETS PRIMARILY PACKAGING

- HIGHLY VERSATILE B/C NOT DYED
- USED IN LIMITED NUMBER OF PRODUCTS: PRIMARILY MILK ALSO OTHER LIQUID
- BRAND DEMAND DROVE 2021 HIGH
- HIGH-LOW: PRESENT TO 2005
- HIGH JULY AUGUST 2021 108.44 CENTS PER POUND
- LOW DECEMBER 2008 11.69, AUG 2023 22.38 CENTS PER POUND



# DATA: RECYCLING MARKETS.NET COLORED HDPE

### **NATIONAL 2.66 CENTS PER POUND**

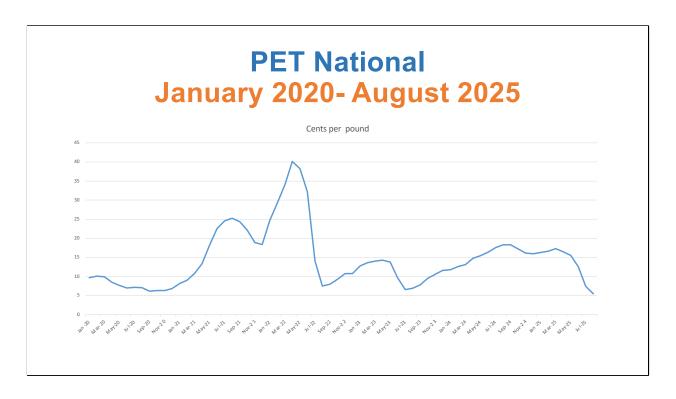
- DOWN 0.65 CENTS FROM LAST MONTH (3.31 CENTS)
- DOWN 6.47 CENTS YOY (9.13 CENTS)
- DOWN 0.87 CENTS FROM 2020 LOW (3.53 CENTS)
- DOWN 3.9 CENTS FROM PRECOVID LOW (6.56)
- SPREAD B/W C & N HDPE 94%: VERY HIGH

### MARKETS PRIMARILY CONSTRUCTION USES: PIPES, ETC.

- COLORED HDPE IS NOT AS VERSATILE B/C OF THE COLORANTS
- SUPPLY: VERY WIDE ARRAY OF CONSUMER PROUCTS
- INTERESTING CORRELATION B/W NEW HOME SALES & STARTS & CHDPE MARKETS

### HIGH LOW - PRESENT TO JUNE 2005

- HIGH AUG 2021 58.13 CENTS &
- LOW DECEMBER 2008 6.56 CENTS & JUNE 2020 3.53 CENTS



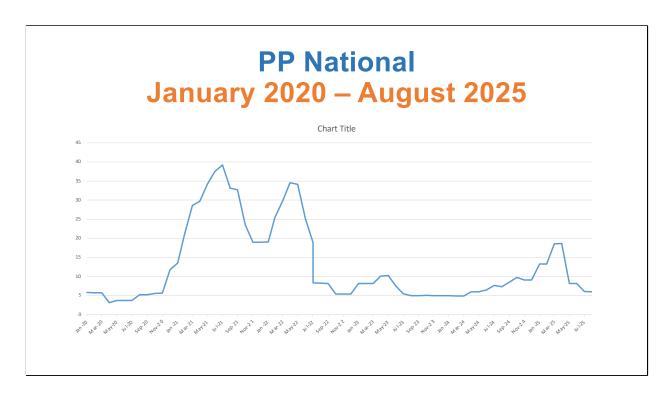
## DATA: RECYCLING MARKETS.NET PET

#### **NATIONAL 5.47 CENTS PER POUND**

- DOWN 1.92 CENTS FROM LAST MONTH (7.39 CENTS)
- DOWN 12.90 CENTS YOY (18.37 CENTS)
- DOWN 35.17 CENTS FROM MAY 2022 RECORD (40.64 CENTS)
- DOWN 0.70 CENTS FROM SEPT 2020 BOTTOM (6.17 CENTS)
- UP 1.34 CENTS FROM PRE COVID LOW JAN 09 (4.13)
- SEPT 12 DOWN 0.38 CENTS TO 5.09 CENTS

### **MARKETS PRIMARILY BOTTLES & FIBER**

- WEAK SUMMER BEVERAGE INDUSTRY SALES
- FLOOD OF IMPORTED RECYCLED PET RESIN
- BRANDS MOSTLY MEETING, NOT EXCEEDING. RECYCLED CONTENT REQUIREMENTS/COMMITMENTS
- FIBER INDUSTRY CUTTING BACK DUE TO WEAK MARKETS HIGH-LOW PRESENT TO 2005
- PRE-COVID HIGH 2011: \$0.37 (GAS & OIL HIGH) POST COVID 40.64 CENTS
- LOW DEC 2008:- JAN 09 GREAT RECESSION: 4.13 CENTS & 6.17 SEPT 20



# DATA: RECYCLING MARKETS.NET POLYPROPYLENE

### **NATIONAL 5.94 CENTS PER POUND**

- DOWN 0.12 CENTS FROM LAST MONTH (6.06 CENTS)
- DOWN 1.37 CENTS YOY (7.31 CENTS)
- DOWN 38.56 CENTS FROM JULY 2021 HIGH (44.5 CENTS)
- UP 2.94 CENTS OVER 2020 LOW (3 CENTS)
- DOWN 0.69 CENTS FROM PRE-COVID LOW OF 6.63 CENTS
- SEPT 12 DOWN 0.31 CENTS TO 5.63

### MARKETS NON-CONSTRUCTION DURABLE USES

- STORAGE CONTAINERS, PAINT CANS, TOYS, BOTTLE CAPS, CAR BATTERY CASES, CARPET FIBER, PACKAGES, ETC.
- DURABLE PLASTICS PRODUCTION DOWN HIGH-LOW –
- ALL TIME LOW MAY 8 2020 \$0.3 & PRE COVID LOW 6.63 CENTS JUNE 2017
- HIGH JULY 2021 \$0.445

### **Recycled Plastics Market Drivers**

### **Demand down**

- Plastics production down to 2017 levels
- Too much resin
- · Sustainability "commitments"

PLASTIC PRODUCTION: <a href="https://www.plasticsnews.com/video/fed-slows-rate-cuts-plastics-manufacturing-faces-new-lows">https://www.plasticsnews.com/video/fed-slows-rate-cuts-plastics-manufacturing-faces-new-lows</a>

NEW MACHINERY ORDERS DOWN https://www.plasticsnews.com/news/plastics-machinery-orders-drop-tariff-concerns-cloud-2025-outlook

 THE TOTAL VALUE OF PLASTICS MACHINERY SHIPMENTS FOR Q1 \$252.1 M, DOWN 4.6% YOY AND 17.5% Q42024.

**EXCESS RESIN IS VIRGIN & IMPORTED RECYCLED RESIN** 

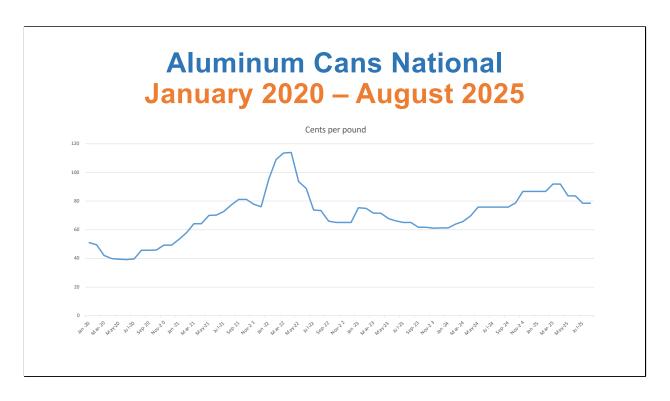
HOUSING STARTS https://www.census.gov/construction/nrc/current/index.html DURABLE GOODS PRODUCTION DOWN

HOUSING CONSTRUCTION: https://www.census.gov/construction/c30/current/index.html BRENT CRUDE AT \$66.07 DOWN FROM \$66.63 AUG 11) - 12 MONTH SPREAD \$58.40 - \$82.63

https://markets.businessinsider.com/commodities/

HENRY HUB \$3.11 UP FROM \$2.95 AUG 11 - 12 MONTH SPREAD \$2.13- \$4.90

https://markets.businessinsider.com/commodities/natural-gas-price



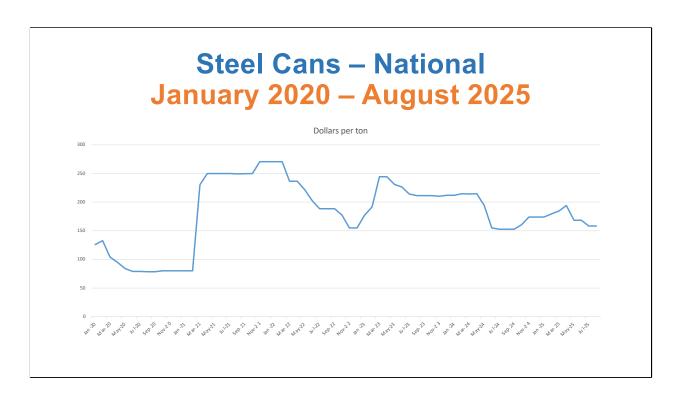
### DATA: RECYCLING MARKETS.NET NATIONAL 78.44 CENTS PER POUND

- SAME AS LAST MONTH
- UP 2.5 CENTS YOY (75.94 CENTS)
- DOWN 45.37 CENTS FROM MAR 11 2022 HIGH (123.81 CENTS)
- UP 39.31 CENTS FROM 2020 LOW (39.13 CENTS)

### **MARKET: CANS**

- BEER SALES DECLINING: BEER SALES DROP AS CONSUMERS SWITCH TO OTHER BEVERAGES
- DISTILLED SPIRITS NOW SLIGHTLY LARGER MARKET SHARE BY SALES REVENUE THAN BEER
- AGGRESSIVELY MOVING INTO NON-ALCOHOL BEVERAGES INCLUDING WATER
- OTHER USE COULD BE CAST ALUMINUM BUT RARE IN NORTH AMERICA

ALLTIME HIGH - \$1.238 MARCH 2022 ALLTIME LOW 39.13 CENTS – JUNE 2020



### **DATA: RECYCLING MARKETS.NET**

#### **STEEL**

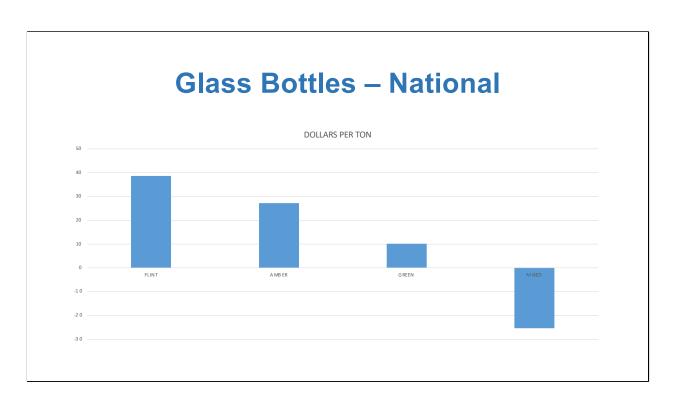
### **NATIONAL \$158.13 PER TON**

- SAME AS LAST MONTH
- UP \$5.32 YOY (\$152.81)
- DOWN \$122.50 FROM ALL TIME HIGH (\$270.63)
- UP \$79.69 FROM 2020 LOW (\$78.44)

### **MARKET ELECTRIC ARC FURNACES**

• 70% US PRODUCTION IS EAF WHICH RELIES ON SCRAP

HIGH: WINTER 21-22 \$270.63 LOW: WINTER 2015: \$35



### PRICES RARELY CHANGE

ONLY COMMODITY WHERE SELLER PAYS FOR SHIPPING

FLINT (CLEAR): \$38.56 AMBER (BROWN): \$27.19

GREEN: \$10.13 MIXED: -\$25.31

### **Metal & Glass Market Drivers**

### **Metal & Glass**

- Alcoholic beverage sales continue to decline
- Aluminum expands non-alcoholic beverage markets
- Tariff negative impact on metal products

### **METAL PRICES SOLID**

- ALUMINUM & STEEL WELL ABOVE PRE-COVID
- ALUMINUM CANS RESISTING SEASONAL SLUMP DUE TO NEW CAN USES
- STEEL CAN DEPENDENT ON CONSTRUCTION & HURT BY CHINESE DUMPING
- DISTILLED SPIRITS NOW SLIGHTLY LARGER MARKET SHARE BY SALES REVENUE THAN BEER

### THE BOOM IN NEW STEEL MILLS IS OUTPACING DEMAND

WALL STREET JOURNAL AUGUST 26

### MAJOR GLASS END USER SHUTS DOWN OREGON BOTTLING PLANT

- RESOURCE RECYCLING, AUGUST 25
- CITES "DEMAND & REGULATIONS"

### **Exports**



PHOTO: LA TIMES: THE PORTS OF LOS ANGELES & LONG BEACH

· BY FAR THE LARGEST IN US

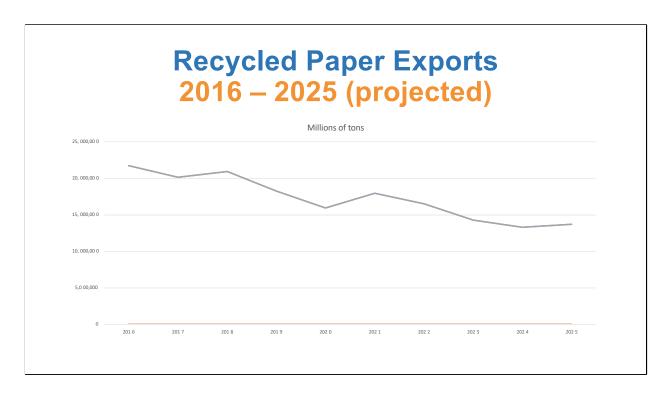
### WHY DO WE EXPORT RECYCLABLES?

BECAUSE SOMEONE WANTS THEM MORE THAN WE DO

### METAL & PAPER THE BIGGEST EXPORTS

- TRACKED BY MILLIONS OF TONS
- WHEREAS PLASTICS BY BILLIONS OF POUNDS
- TOTAL PLASTICS EXPORTS LESS THAN 5% OF PAPER
- ALUMINUM CANS & GLASS CULLET/BOTTLES NOT EXPORTED

PAPER EXPORTS REMAIN NECESSARY AS LONG AS MANUFACTURING SHIPPED OVERSEAS



https://resource-recycling.com/recycling/2025/02/19/paper-and-plastic-exports-decline-again-in-2024/

PAPER EXPORTS 2024: 13.3 MILLION TONS

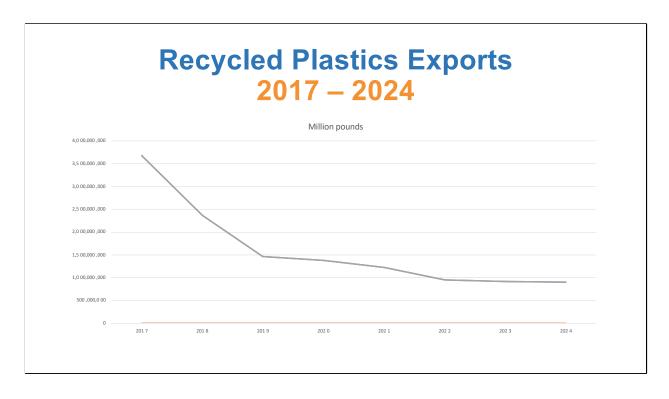
- EXPORTS DROPPED 11% FROM 2023 (14.8 MILLION TONS)
- DROPPED FROM 20.1 MILLION TONS IN 2017 TO 13.3 MT IN 2024
- FIRST HALF OF YEAR UP 3%: POTENTIAL 2025 EXPORTS 13. MT
- IMPORTS DOWN 21%, 252499 MT, ALMOST ALL CANADA, A LITTLE MEXICO & LESS ELSEWHERE

#### WHY?

- OVERALL DECLINE CAUSED BY 2018 CHINA IMPORT BAN & INCREASED DOMESTIC DEMAND
- DECLINE FROM 2023 DRIVEN BY WEAKER OVERSEAS ECONOMIES
- INDIA, THAILAND, MEXICO & MAYAYSIA RECEIVE 8.2 MILLION TONS OR 62% OF EXPORTS
- IMPORTS TO INDIA DOWN 31% & MEXICO DOWN 23%
- 75% OF INDIAN PAPER MILLS RELY ON RECYCLED FIBER
- INDIA SWITCHING TO EUROPEAN SUPPLIERS DUE TO TARIFF UNCERTAINTY 68% OF EXPORTS OCC, 15% RMP, 10% HIGH GRADE DEINKED PAPER, 3% OLD NEWSPAPERS
- OCC EXPORTS HAVE INCREASED WHILE RMP HAVE DECREASED OVER THE LAST DECADE

PAPER EXPORTS WILL BE BIG (1/3) AS LONG AS MANUFACTURING IS "OUTSHORED"

RESHORING IN IN TERMS OF MANFACTURING JOBS UP 263% FROM 2019



EXPORT DATA RESOURCE RECYCLING https://resourcerecycling.com/plastics/2025/02/12/plastic-exports-decline-again-in-2024/ EXPORTS DROPPED 75% SINCE 2017 WHEN MORE THAN 3.7 BILLION POUNDS WERE EXPORTED

#### PLASTICS 2024:

- 903 MILLION POUNDS
- A 1.6% DECLINE FROM 2023
- PET & HDPE EXPORTS HAVE BEEN DECLINING FOR OVER A DECADE
- RECYCLED PET EXPORTS ON SIGNIFICATN RISE
- FLOODING MARKETS

#### WHY?

- CHINA CAUSED THE IMMEDIATE DROP
- INCREASED DOMESTIC DEMAND CAUSED THE MORE RECENT DECLINES
- CANADA & MEXICO GET 54% INDIA & MALAYSIA ARE THE TWO LARGEST ASIAN IMPORTERS

MIXED PLASTICS & POLYETHYLENE GRADES ARE EACH 37% OF THE EXPORTS (Q1 DATA)

- PRIMARILY FILM & NON-BOTTLE RIGID PACKAGES
- THAILAND BANNED IMPORTS OF RECYCLED PLASTICS AS OF JULY 1, 2025
- THAILAND A SMALL IMPORTER, NOT IN TOP TEN

## North American Recycled Content Market Capacity Expansion



### PHOTO NORPAC

THIS IS A PICTURE OF NEW RECYCLED PAPER PULPING MACHINE FOR NORPAC'S MILL IN LONGVIEW WA

ONE OF 24 EXPANSIONS OF EXISTING MILLS OR CONVERSIONS OF PRINTED PAPER MILLS TO PACKAGING PAPER

- OR NEW MILLS
- 8 MILLION TONS NEW CAPACITY WHEN FINISHED
- NORTHEAST RECYCLING COUNCIL: RECYCLED PAPER CAPACITY INCREASES IN NORTH AMERICA 2017-2024

PLASTIC HAS ALSO SEEN EXPANSION BUT NOT AS MUCH

# Changes in Recycled Packaging Paper Production Capacity August 2025

- IP closing Savannah and Riceboro GA containerboard mills
- IP converting Selma, AL freesheet machine to containerboard (2026)
- Everboard recycled roofing material reopening in Iowa as ReCB

#### **CLOSING**

<u>IP</u>: 3: RED RIVER LA, RICEBORO & SAVANNAH GA, <u>GRIEF</u>: 2: FITCHBURG, MA & LOS ANGELES, <u>SMURFIT WESTROCK</u>: 2: ST PAUL MN & FORNEY, TX & GP: 1: CEDAR SPRINGS, GA

"INTERNATIONAL PAPER TO CLOSE 4 FACILITIES AFFECTING 1,00 EMPLOLYEES"

- PACKAGING DIVE AUGUST 21
- "RECYCLED CONTENT ROOFING FACILITY REOPENS IN IOWA UNDER NEW OWNERSHIP"
- WASTE DIVE AUGUST 27

THREE EXPANDED RECYCLOED PAPER CAPACITY CLOSED OR ON EXTENDED ECONOMIC DOWNTIME

"PAPERBOARD COMPANY PLANS NEW MILL, RECYCLING PROGRAM:"

- RESOURCE RECYCLING, FEB 13, 2023
- GRAPHIC PACKAGING INTERNATIONAL
- · CLOSING THREE MILLS
- NEW MILL MAKE COATED RECYCLED PAPERBOARD FOR \$405 PER TON VS \$540 FOR COMPETITORS
- SLIGHTLY MORE TOTAL NEW CAPACITY ANTICIPATING PLASTIC TO PAPER PACKAGE INCREASES

AS NOTED IN EARLIER SLIDE, CLOSING EXCESS PRODUCTION CAPACITY SHOULD STRENGTH OVERALL DEMAND

# Changes in Recycled Plastics Production Capacity

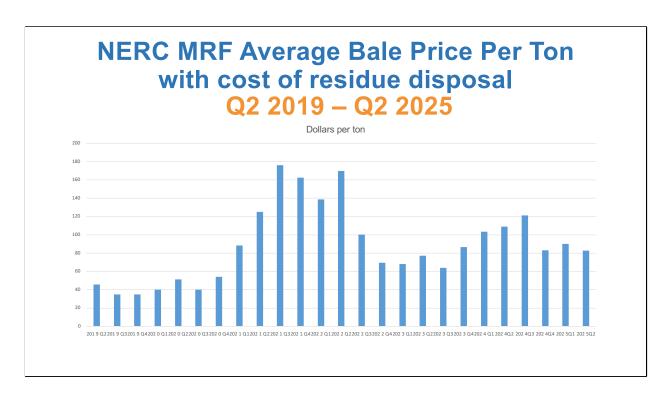
#### **Plastics**

- Republic PRF in Allentown, PA open late 26
- Blue Polymers to open resin facility nearby
- Denton Plastics expanding Oregon RPP capacity
- Circularix starts PA rPET facility, expands Florida facility
- rPlanet closed California rPET facility

#### PLASTICS HAS ALSO SEEN EXPANSIONBUTNOT AS DRAMATIC

"BLUE POLYMERS IS REPUBLIC SERVICES JOINT VENTURE WITH RAVAGO"

- REPUBLIC OPERATES A PRF, RAVAGO MAKES PLASTIC RESIN OR FLAKE
- REPUBLIC SERVICES PRESS RELEASE JULY 31
- "BLUE POLYMERS TAKES OVER FOOD-GRADE RPET PRODUCTION FACILITY IN CALIFORNIA"
- PACKAGING DIVE AUGUST 19
- "DENTON PLASTICS BUILDING MAJOR OREGON PP EXPANSION"
- PLASTICS RECYCLING UPDATE AUGUST 13
- PROCESSED 1.4 MILLION POUNDS PP IN 2023 ECPECTS 2.6 MILLION POUNDS IM 2026
- "CIRCULARIX STARTS FLORIDA RPET PLANT, EXPANDS PENNSYLVANIA SITE"
- PLASTICS RECYCLING UPDATE AUG 28
- CA: 55 MILLION POUND RPET & PA 165 MILLION POUNDS PA COMPLETE
- "PET RECLAIMER rPLANET EARTH CLOSES IN CALIFORNIA"
- PACKAGING DIVE, SEP 12



Q4 2024 DECLINE CAUSED BY SLIDE IN OCC & RMP PRICES

- INCREASE IN ALUMINUM, NHDPE & PET CUSHIONED THE FALL Q1 2025 INCREASE CAUSED BY STABLE PAPER PRICES IN Q1
- ALONG W/STRONG ALUMINUM, NHDPE & PET PRICES
   Q2 DOWN \$8.44 PER TON TO \$82.68
- PAPER WENT DOWN
- ALUMINUM DOWN SLIGHTLY, NHDPE DOWN MORE

PAPER'S DOMINANCE IN COLLECTION WEIGHT & VOLUME MAKES IT FUNDAMENTALLY IMPORTANT FOR AVERAGE BALE PRICE

- HAULER/RECYCLER QUARTERLY REPORTS FOCUS ON OCC B/C OF ITS IMPORTANCE
- ALUMINUM & NHDPE ARE THE FROSTING ON THE CAKE



THIS POST-COVID ECONOMY REMAINS A PUZZLE ECONOMIC POLICY UNCERTAINTY INDEX (ST. LOUIS FED) NEXT TO ALLTIME HIGH

- https://fred.stlouisfed.org/series/USEPUINDXD
   HARD" ECONOMIC DATA BECOMING LESS OPTIMISTIC
- GDP UP, INFLATION UP BIGLY, NEW JOBS STALLING SOFT DATA SUCH AS CONSUMER SENTIMENT & PROCUREMENT MANAGER PROJECTIONS PAINT A PESSIMISTIC PICTURE I HAVE SLIDES IN THE APPENDIX OF THIS PRESENTATION THAT GO INTO MORE DETAIL
- I WANT TO FOCUS ON QUARTERLY REPORTS
   QUARTERLY REPORT FROM BRANDS & PACKAGERS ARE TENDING
   CAUTIOUS./NEGATIVE
- MOST END MARKET QUARTERLY REPORTS ARE PESSIMISTIC
   PERHAPS THE MOST IMPORTANT DATA FOR RECYCLING MARKETS IS SOMETHING
   CALLED "REAL DISCRETIONARY PERSONAL INCOME"
- WHAT YOU HAVE LEFT AFTER TAXES, FOOD, HOUSING, UTILITIES
- ADJUSTED FOR INFLATION

# Real Discretionary Personal Income Under Siege

"Bread over blazers as shoppers pursue 'needs' over 'wants'"

Retail Dive, Aug 20, "Target Struggles with Turnaround as Q2 Sales Drop"

Quoting TD Cowen analysis

#### **RETAIL DIVE**

- "TARGET STRUGGLES WITH TURNAROUND AS Q2 SALES DROP"
- AUGUST 20
- QUOTING TD COWEN ANALYSIS

STRESSED CONSUMERS FOCUSING ON ESSENTIALS

- REAL DISCRETIONARY PERSONAL INCOME UNDER SIEGE
- "CONSUMER SPENDING GROWTH DRIVEN BY HEALTH CARE": ADAM JOSEPHSON
- AS THE CONSUMER TURNS" SUBSTACK
- THE IMPACT OF HEALTH CARE, HOUSING, INSURANCE & FINANCIAL SERVICES GIVING MOST OF US LESS MONEY FOR DISCRETIONARY SPENDING

RETAILERS TRYING TO KEEP PRICES DOWN

- STARTING TO PASS ON SOME TARIFF COSTS
- WIILL PASS ON MORE

HIGHER INCOME AMERICANS – TOP 10% – ARE RESPONSIBLE FOR ALMOST HALF OF CONSUMER SPENDING

- MARKETPLACE SEPT 8
- "HIGHER INCOME AMERICANS DRIVE BIGGER SHARE OF CONSUMER SPENDING" DISCOUNT STORES DOING WELL
- WALMART EVEN REPORTING MORE HIGH INCOME SHOPPERS

### "Consumers Under Stress"

### Quarterly retail, packaging, end market reports

- · Generally cautious
- Unit sales down
- Lower price strategy driving sales
- Tariff price being passed on as much as possible

# "PACKAGING" MEANS CONSUMER BRANDS, RETAILERS, END MARKET PRODUCERS

"DEERE CUTS OUTLOOK AS 3Q PROFIT, REVENUE FALL" AUG 14 WSJ
"TOLL BROTHERS PULLS BACK ON HOME DELIVERIES OUTLOOK:" AUG
19 WSJ

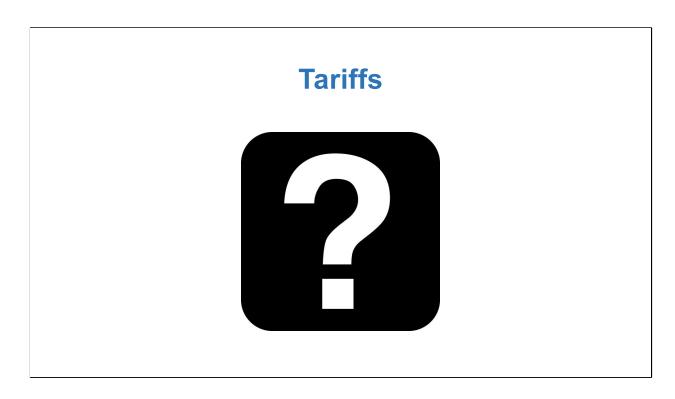
"T.J. MAXX OWNER BOOSTS FULL-YEAR OUTLOOK AFTER HIGHER SALES" AUG 19 WSJ "WALMART REVENUE GROWS AS IT WORKS TO ABSORB TARIFF HIKES" AUG 21 RETAIL DIVE

"LEGO SALES HIT RECORD AS TOY MARKET REBOUNDS" WSJ AUG 27

"FIVE BELOW LIFTS VIEW AS MORE SHOPPERS LOOK FOR VALUE" AUG 28 WSJ

"HORMEL TO RAISE PRICES, CITING COSTLIEER PORK, BEEF AND NUTS" AUG 29 WSJ

"CONSTELLATION BRANDS CUTS OUTLOOK ON WEAK BEER DEMAND" SEP 3 WSJ



#### TARIFFS GENERALLY DON'T APPLY TO RECYCABLES

- EXCEPT RECYCLED PET
- PRODUCTS MADE WITH RECYCLED CONTENT ARE COVERED
- ESPECIALLY ALUMINUM & STEEL CANS
- TARIFFS ON ALUMINUM & STEEL IMPORTS HURTING BEVERAGE & FOOD CAN INDUSTRIES

#### DEPEND WHOSE OX IS GORED?

- NORTH STAR BLUESCOPE STEEL MAKES STEEL FROM SCRAP
- WANTS TRAIFF ON IMPORTED STEEL & ALUMINUM PARTS
- DOES NOT WANT TARIFFS ON SCRAP METALS
- https://www.bbc.com/news/articles/c04z0ydvql2o

SIMILAR ISSUE NOW WITH NEW 50% TARIFF ON STEEL CONTENT OF PLASTIC MOLDING MACHINES & MOLDS

MOST OF THE WEIGHT OF THE MACHINE

TARIFF COSTS BEING PASSSED ON TO CONSUMERS SLOWLY BUT SURELY

### **Markets Beyond August**

### Trends to watch

Consumer demand for goods:

- holiday buying
- lowered SNAP benefits
- tariff price impact

Housing starts and durables manufacturing

CONSUMER DEMAND & HOLIDAY BUYING THE MOST IMPORTANT

- THE IMPORTANCE OF REAL DISCRETIONARY PERSONAL INCOME
- IMPACT OF TARIFF PASS THROUGHS ON PRICES "HOW SNAP CHANGES COULD IMPACT GROCERS"
- FOOD DIVE AUGUST 4

HOUSING STARTS & DURABLE MANUFACTURING FOR PLASTICS

### **Markets Beyond August**

### **Paper** flat

### **Plastic**

- NHDPE price may have stabilized
- CHDPE stagnant
- PET might start to come back
- PP flat

Metal & Glass flat

#### PAPER DRIVEN BY DECLINING BOX DEMAND

- MILL CLOSURES & DOWNTIME LOWERING AVAILABLE CAPACITY
- SUPPLY STILL MORE THAN DEMAND

#### PLASTIC:

- NHDPE RETURNING TO NORMAL LEVELS
- CHDPE HAMPERED BY SLOW Q2 HOUSING STARTS
- PET DOWN DUE TO INCREASED RPET FLAKE IMPORTS
- BEVERAGE SALES NOT STRONG THIS SUMMER
- PP, LIKE NHDPE, RETURNING TO NORMAL LEVELS AS DEMAND WANES

### **Good Reads**

Blue Polymers Takes Over Food-Grade rPET Production Facility in California

• Packaging Dive, August 19

Recyclers Have the Capacity - Let's Use It

• Plastics Recycling Update, August 20

The Biggest Retailers Are Thriving in the Tariff Economy

• Wall Street Journal August 22

Domestic, Global Factors Restrain Steel Markets

• Recycling Today, August 25

The Boom in New Steel Mills Is Outpacing Demand

• Wall Street Journal, August 26

Higher Prices Are Coming for Household Staples

• Wall Street Journal, August 28

Weak Summer Labor Market Flashes Warning Signs for the Economy

• Washington Post, September 5

Trump Adds PET resin to "reciprocal" tariffs

• Plastics Recycling Update, September 8

### Sources Include

Marketplace: https://www.marketplace.org

NERC Increased Capacity to Use Recycled Paper Final March 2024

https://www.nerc.org/nerc-releases-final-update-on-increased-capacity-to-use-recycled-

paper

Packaging Dive: https://www.packagingdive.com

Paper: Moore & Associates: Bill Moore: www.marecycle.com

Paper: RISI: Hannah Zhao: www.risiinfo.com

Plastic: Stina: www.stinainc.com

Plastics News: https://www.plasticsnews.com

Recycling Markets.net: Christina Boulanger-Bosley: www.recyclingmarket.net

Resource Recycling Magazine & weekly Resource Recycling & Plastic Recycling Update e-

news: resource-recycling.com/recycling/magazine/

Waste 360: <a href="https://www.waste360.com">https://www.waste360.com</a>
Waste Dive: <a href="https://www.wastedive.com">https://www.wastedive.com</a>

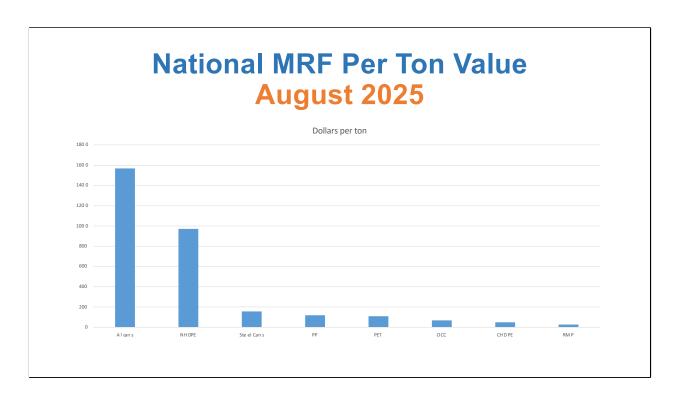
THESE COMPANIES & PUBLICATIONS ARE EXCELLENT SOURCES OF INFORMATION ABOUT MARKET TRENDS

## Contact

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## **Appendices**

- National MRF Per Ton Value
- Where Is the Economy Going? Hard Data
- Where Is the Economy Going? Soft Data
- Where Is the Economy Going? Procurement & Logistics



NOTE HOW PAPER IS ON A PER TON LEVEL BUT CRUCIAL TO BALE VALUE

### CHDPE LESS VALUABLE THAN OCC

- RARE FOR ANY OF THE OTHER CURBSIDE RECYCLABLES TO BE LESS VALUABLE PER TON THAN PAPER
- MIXED GLASS, OF COURSE, IS AN EXCEPTION

### "Hard" data is a mix

- GDP up
- · Core inflation up
- · Job growth stalled
- Real disposable personal income down

"HARD" DATA MEASURABLE IN DOLLARS OR WEIGHT, ETC, & ARE "LAGGING" B/C DATA REFLECTS THE PAST

### DATA SOURCES INCLUDE:

- GDP: https://fred.stlouisfed.org/series/GDPC1 UP 3.3%
- INFLATION: CORE PCE: https://www.bea.gov/data/personal-consumption-expenditures-price-index-excluding-food-and-energy UP 2.9%
- UNEMPLOYMENT: https://www.bls.gov/news.release/empsit.nr0.htm: FLAT AT 4.3%
- JOB CREATION: https://www.bls.gov/news.release/empsit.nr0.htm: NEW JOBS BARELY UP
- CONTINUOUS JOBLESS CLAIMS HIGHEST SINCE NOV2021
- FEWER PEOPLE QUITTING JOBS, LESS HIRING, WHITE COLLAR LAYOFFS
- REAL DISPOSABLE PERSONAL INCOME: https://fred.stlouisfed.org/series/DSPIC96

## "CONSUMER SPENDING GROWTH DRIVEN BY HEALTH CARE": ADAM JOSEPHSON

- THE IMPACT OF HEALTH CARE & OTHER COSTS ON DISCRETIONARY CONSUMER SPENDING
- "AS THE CONSUMER TURNS" SUBSTACK

### "Hard" data is relatively positive with weakness growing

- Wage growth: up slightly
- Real discretionay personal income down
- · Retail sales: flat
- Industrial output: flat
- Durable goods: new orders down
- Household debt up: 90-day delinquencies surging
- WAGE GROWTH: https://www.bls.gov/news.release/realer.nr0.htm
- PERSONAL CONSUMPTION:
  - httphttps://www.bea.gov/sites/default/files/2025-06/pi0525.pdf
- REAL DISCRETIONARY PERSONAL INCOME: https://fred.stlouisfed.org/series/DSPIC96
- RETAIL SALES: https://www.census.gov/retail/sales.html
- INDUSTRIAL OUTPUT: https://fred.stlouisfed.org/series/INDPRO
- DURABLE GOODS:
  - https://www.census.gov/manufacturing/m3/adv/current/index.html
- PERSONAL SAVINGS: https://fred.stlouisfed.org/series/PSAVERT DOWN
- HOUSEHOLD DEBT: https://www.newyorkfed.org/microeconomics/hhdc
- CREDIT CARD DELINQUENCIES: https://fred.stlouisfed.org/series/DRCCLACBS

"Soft" data

**Consumer sentiment/confidence** 

Cautious

**NAHB** Homebuilder confidence

• Down..."soft housing market"

NFIB small business barely optimism index

"SOFT" DATA IS SPECULATIVE & FORWARD-LOOKING UMICH CONSUMER SENTIMENT/EXPECTATIONS

• DOWN MOM & YOY:

THE CONFERENCE BOARD "DIPPED SLIGHTLY"

- US CONSUMER CONFIDENCE LITTLE CHANGED IN AUGUST: AUG 26
- CONFIDENCE REVIVED IN Q3 BUT CEOS REMAIN CAUTIOUS AUG 7

NATIONAL ASSOCIATION OF HOMEBUILDERS

HMI KEY FINDINGS: AUGUST 2025

NATIONAL FEDERATION OF INDEPENDENT BUSINESSES OPTIMISM INDEX

- NEW NFIB SURVEY: SMALL BUSINESS OPTIMISM RISES SLIGHTLY SEPT 9
- WAITING FOR UNCERTAINTY TO RESOLVE

### **Procurement & Logistics**

Institute of Supply Management

- · manufacturing contracting
- · new orders expanding
- production contracting

Warehouse demand down

Freight companies reporting fewer shipments

#### ISM MANUFACTURING

 https://www.ismworld.org/supply-management-news-and-reports/reports/ism-pmireports/pmi/august/

ISM SERVICES: https://www.ismworld.org/supply-management-news-and-reports/reports/ism-pmi-reports/services/august/

BOTH ISM CATEGORIES SHOW EMPLOYMENT CONTRACTING & PRICES RISING LMI: https://www.the-lmi.com/july-2025-logistics-managers-index.html

 INVENTORY RISE PRIMARILY IN FIRST HALF AS COMPANIES RUSHED TO BEAT TARIFFS

WAREHOUSE DEMAND: MARKETPLACE SEPT 5 QUARTERLY DEMAND FOR INDUSTRIAL WAREHOUSES SEES FIRST DROP IN 15 YEARS

CASS: https://www.cassinfo.com/freight-audit-payment/cass-transportation-indexes/cass-freight-index

UPS: WSJ JULY 30: "UPS SHARES DECLINE AS LACK OF GUIDANCE, WEAKER RESULTS, SHOW PROLONGED CHALLENGES"

CSX: WSJ JULY 28 "CSX QUARTERLY PROFIT, SALES FALL AS UNCERTAINTY PERSISTS AMONG INDUSTRIAL MARKETS"

DHL: WSJ: "DHL PARENT BACKS GUIDANCE DESPITE CONTINUED UNCERTAINTY"