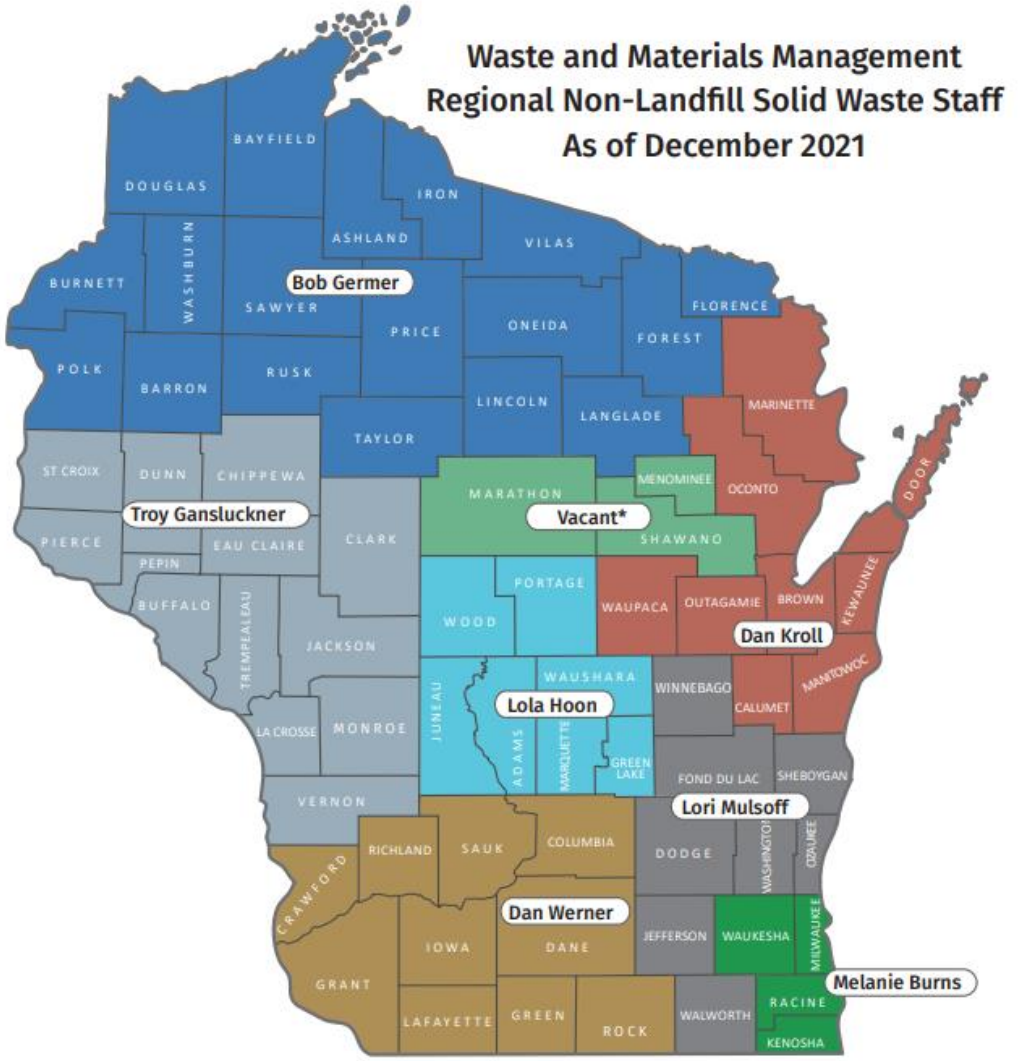
DNR Updates & Commodity Market Overview

MRF Stakeholder Meeting

Oct. 24, 2022

Staffing

- ‘New’ Staff
  - Cynthia Moore
  - Amanda Harvey
- Departures
  - Eliza Kruszynski



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Dan Kroll	daniel.kroll@wisconsin.gov	920-401-1314	Green Bay
*Vacant, contact Dan Kroll			
Lola Hoon	lola.hoon@wisconsin.gov	608-228-8877	Fitchburg
Dan Werner	daniel.werner@wisconsin.gov	608-235-8591	Fitchburg
Melanie Burns	melanie.burns@wisconsin.gov	414-339-9088	Milwaukee
Lori Mulsoff	lori.mulsoff@wisconsin.gov	608-396-1150	Milwaukee

Updated 12/21 AD

Recycling Hot Projects

- NR 544 Revision
- BIL EPA Funding (Solid Waste Infrastructure for Recycling, Education and Outreach Grants)
- Recycling Excellence Awards
- RU Grant Application, Annual Reports MRFs and RUs
- LFB Biannual Informational Paper
- HH Recycling Survey Report, Executive Summary & Infographic

Recycling Administrative Code Revision

Primarily NR 544, Effective Recycling Programs

- Responsible Units of Recycling (RUs)
- Material Recovery Facilities (MRFs)

Additional codes as it pertains to recycling

- NR 500 – Definitions
- NR 502 – Haulers of Solid Waste and Recycling
- NR 520 – Owner Financial Responsibility
- NR 542 – Recycling Grants (to Responsible Units)

Areas of Potential Revision

RUs

- Operational requirements
- Enforcement
- Reporting
- Variances for effective recycling programs

MRFs

- Operational requirements
- Reporting
- Glass beneficial reuse
- Owner financial responsibility

Areas of Potential Revision (cont.)

- RU collection standard
- Multi-family "adequate" recycling
- Food waste reduction education

TABLE 1
Standards for Collection of Recyclables
– Pounds Per Person Per Year –

	Rural Municipalities	Other Municipalities
Newspaper	36	47
Corrugated Paper	6	7
Magazines	7	9
Aluminum Containers	1.4	1.8
Steel & Bi–Metal Containers	7	9
Plastic Containers	4	5
Glass Containers	22	29
Foam PS Packaging	0.3	0.4
TOTAL	83.7	108.2

Note: 1) Rural municipalities are those with a population of 5,000 or less or a permanent aggregate population density of less than 70 persons per square mile. For purposes of ch. NR 544, municipalities that do not meet that population criterion fall into the other category. 2) The department intends to periodically revise these collection standards as conditions warrant.

2021 Recycling & Materials Management Survey

The Wisconsin Department of Natural Resources conducts surveys to assess awareness and participation in Wisconsin's recycling and materials management program. Approximately 960 respondents participated in the 2021 survey. These results help guide waste reduction and diversion efforts throughout the state.

Successes

Environmental responsibility was rated the most important reasons to recycle, ahead of obeying the law and job creation

71% received recycling information from local government

Mailings were rated as the most popular method for obtaining information, followed by the internet

84% of respondents brought their old tires to a drop-off site

75% of respondents are very committed to recycling

31% in 2016

18% in 2021

Recycling accessibility is a barrier to fewer respondents

4 out of 5 respondents knew how to properly dispose of pharmaceuticals

Sharps drop-off disposal is up 20% over the past decade

75% of respondents are willing to separate food waste

35% of rural respondents already compost

Leftovers and scraps can be kept out of landfills and create fertilizer for crops

Challenges

Top barries to recycling more

39% heard recyclables end up in a landfill

39% feel it's easier to trash recyclables

35% sometimes forget

28% not sure what is recyclable

only 1 in 3

renters received mandatory recycling info from the property owner

85% of respondents disposed of batteries in the past year

32% knew how to dispose of them properly

Less than half of respondents reported bringing their household hazardous waste to a drop-off site.

Burning trash pollutes air and poses health risks, yet it isn't a major concern for most

35%	extremely/very concerned
33%	somewhat concerned
32%	not too/not at all concerned

30% reduction in recycling law awareness over 10 years

Doing More

Ask your municipality, hauler or landlord for recycling information specific to your area

Wisconsin Clean Sweep events support community collection of household hazardous waste, pesticides and prescriptions. Go to dnr.wi.gov, search "household hazardous waste" to look for a site near you!

Learn more about recycling and waste reduction in Wisconsin at dnr.wi.gov, search "What to recycle in Wisconsin"

This publication is available in alternative format (large print, Braille, audio tape, etc.) upon request.

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Waste and Materials Management Program
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Contextualizing the Recycling Market

(slides used with permission of The Recycling Partnership)

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Average Generation per Single Family Household per Year

Material	Pounds of Annual Generation	Percent of Generation
Cardboard	120	15.8%
Mixed Paper	277	36.6%
Aseptic & Gabletop Containers	7	0.9%
PET Bottles	55	7.2%
Non-bottle PET	12	1.6%
HDPE Natural Bottles & Jars	12	1.5%
HDPE Colored Bottles & Jars	16	2.1%
Non-bottle HDPE Containers	2	0.2%
Polypropylene Containers	20	1.7%
Other Plastic Containers (#3,4,6,7)	13	2.6%
Bulky Rigid Plastics	24	3.2%
Glass Containers	150	19.8%
Steel Cans	22	2.9%
Aluminum Cans	22	2.9%
Aluminum Foil & Trays	7	0.9%
Total Pounds/HH	757	100%

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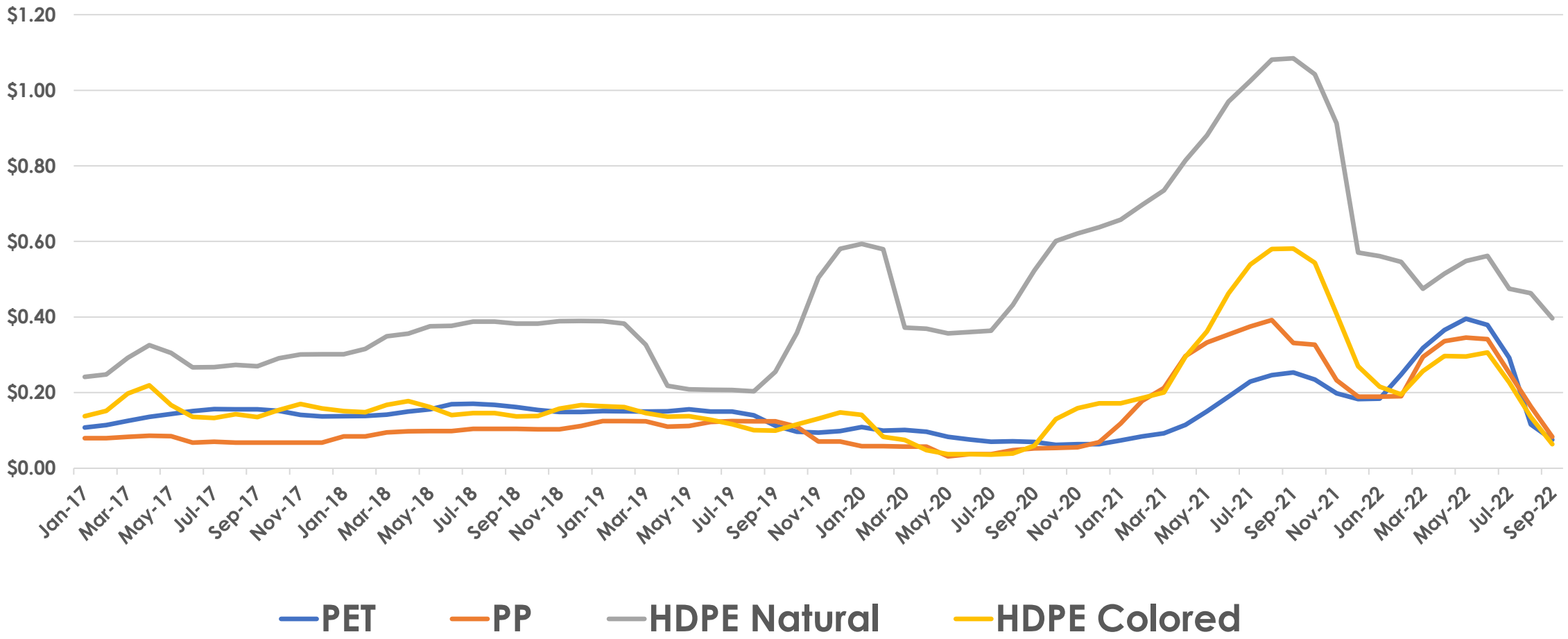
Plastics Since 2017: $/lb.



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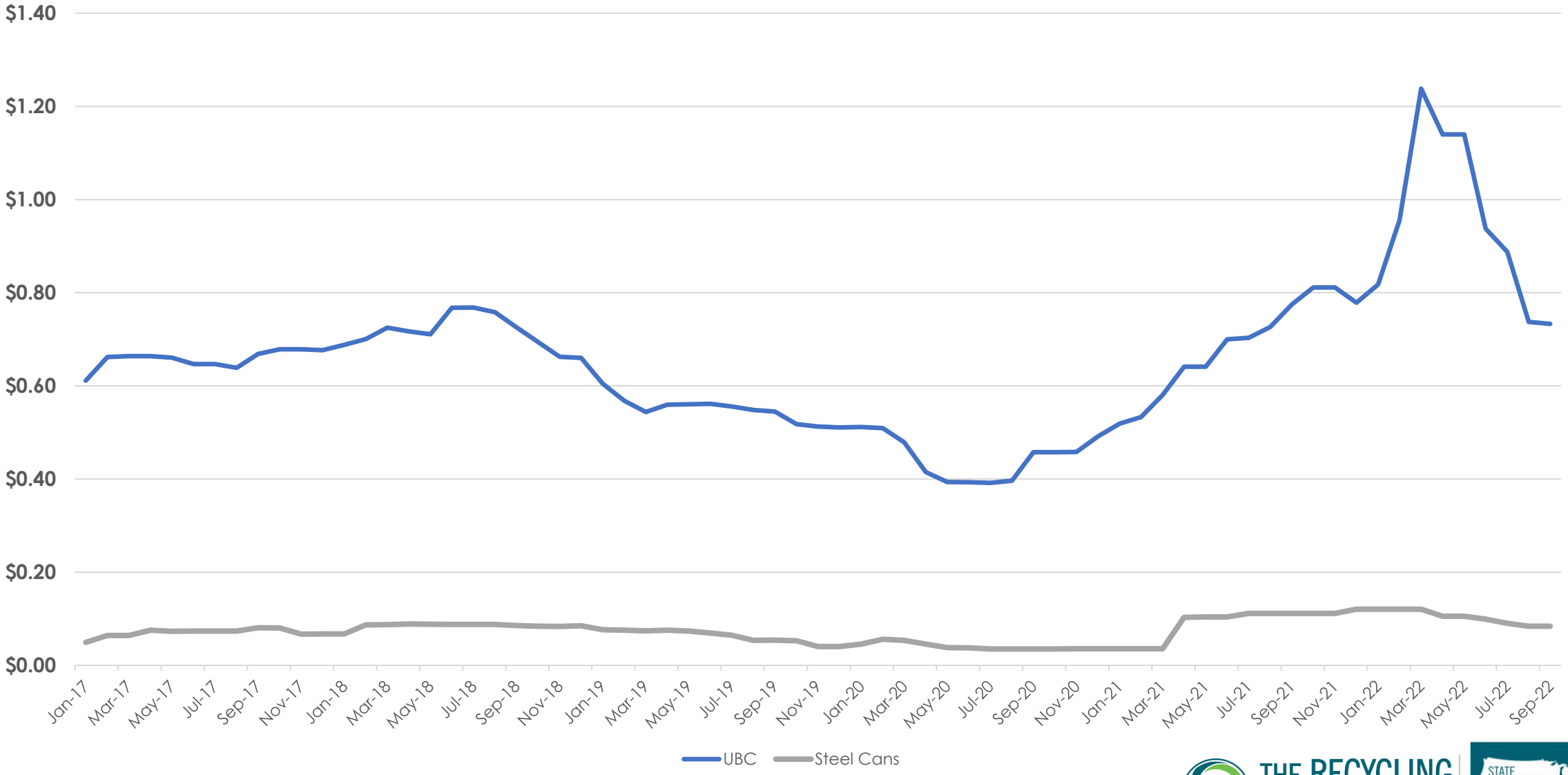
Metals Since 2017: $/lb.



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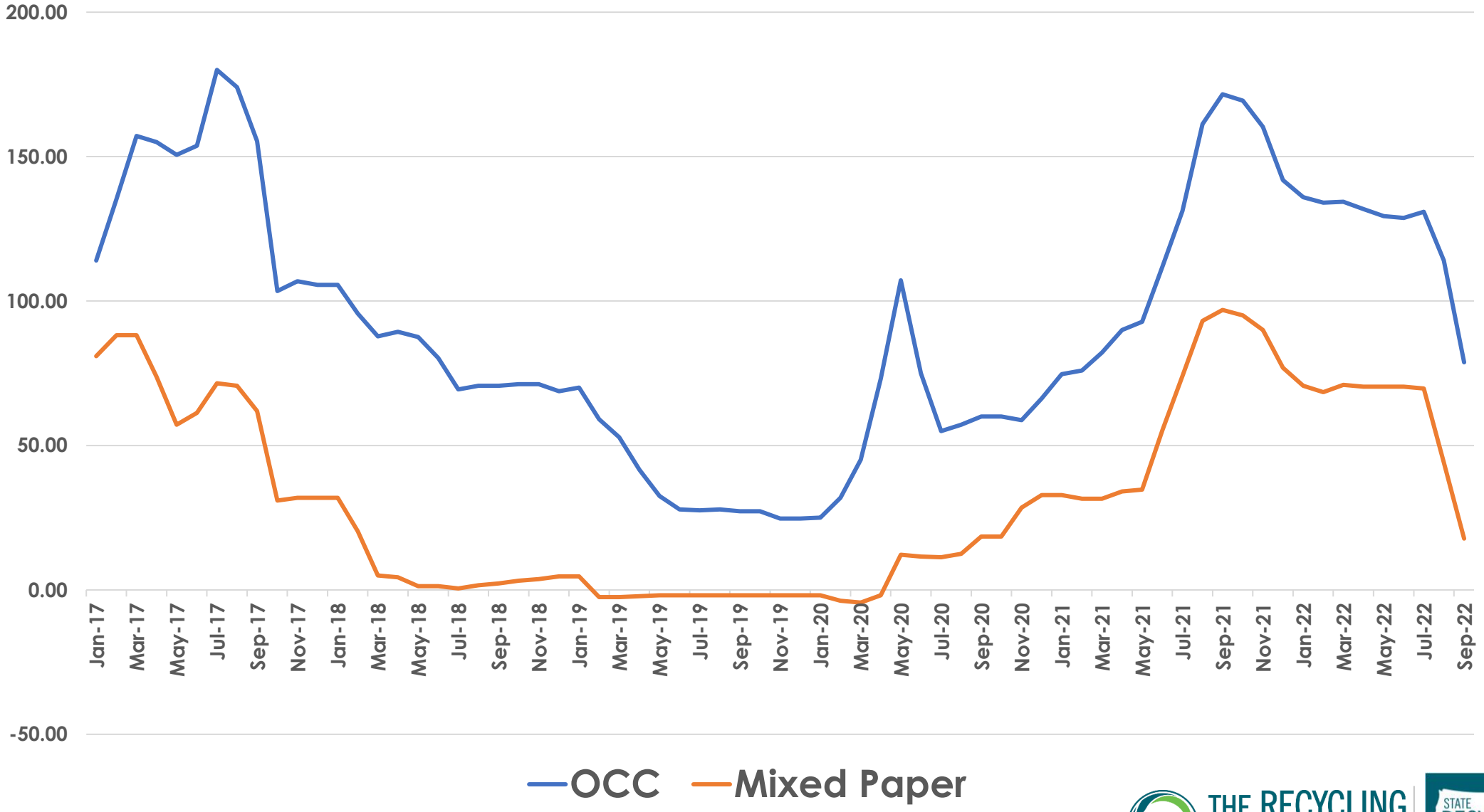
Fiber Since 2017: $/Ton



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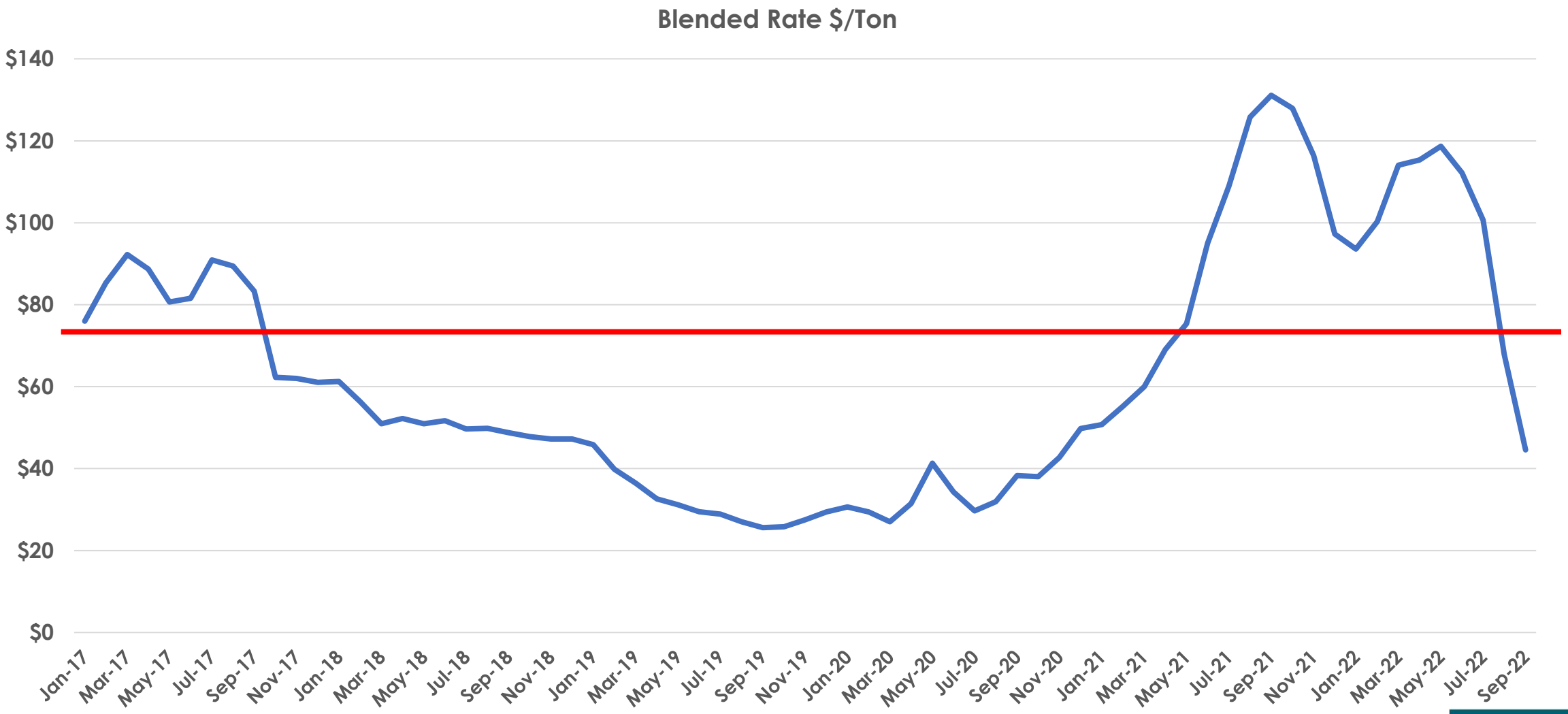
The Commingled Ton:
An Illustration of Material Value and Costs from the MRF Perspective

Commodity	% of Outbound Materials (Partnership's National Average)	Price / Ton (Sept 2022)	Weighted Value in Commingled Ton
Cardboard	19.50%	$78.75	$15.36
Mixed Paper	37.50%	$17.75	$6.66
Cartons/Aseptics	0.10%	$2.50	$0.00
Aluminum Cans	1.30%	$1,466.20	$19.06
Steel Cans	1.80%	$188.44	$3.39
Glass	18.80%	($25.31)	($4.76)
PET	3.90%	$150.60	$5.87
HDPE Natural	0.90%	$793.80	$7.14
HDPE Colored	1.00%	$126.80	$1.27
3-7 Plastics	1.10%	$21.20	$0.23
Mixed Rigid Plastics	0.40%	$71.20	$0.28
Residue	13.7%	($70.00)	($9.59)
Total	100.00%		$44.92
		Processing Cost:	$75.00
Today's Net Value		Profit (Loss)	($30.08)

The Commingled Ton Since 2017



THE RECYCLING PARTNERSHIP

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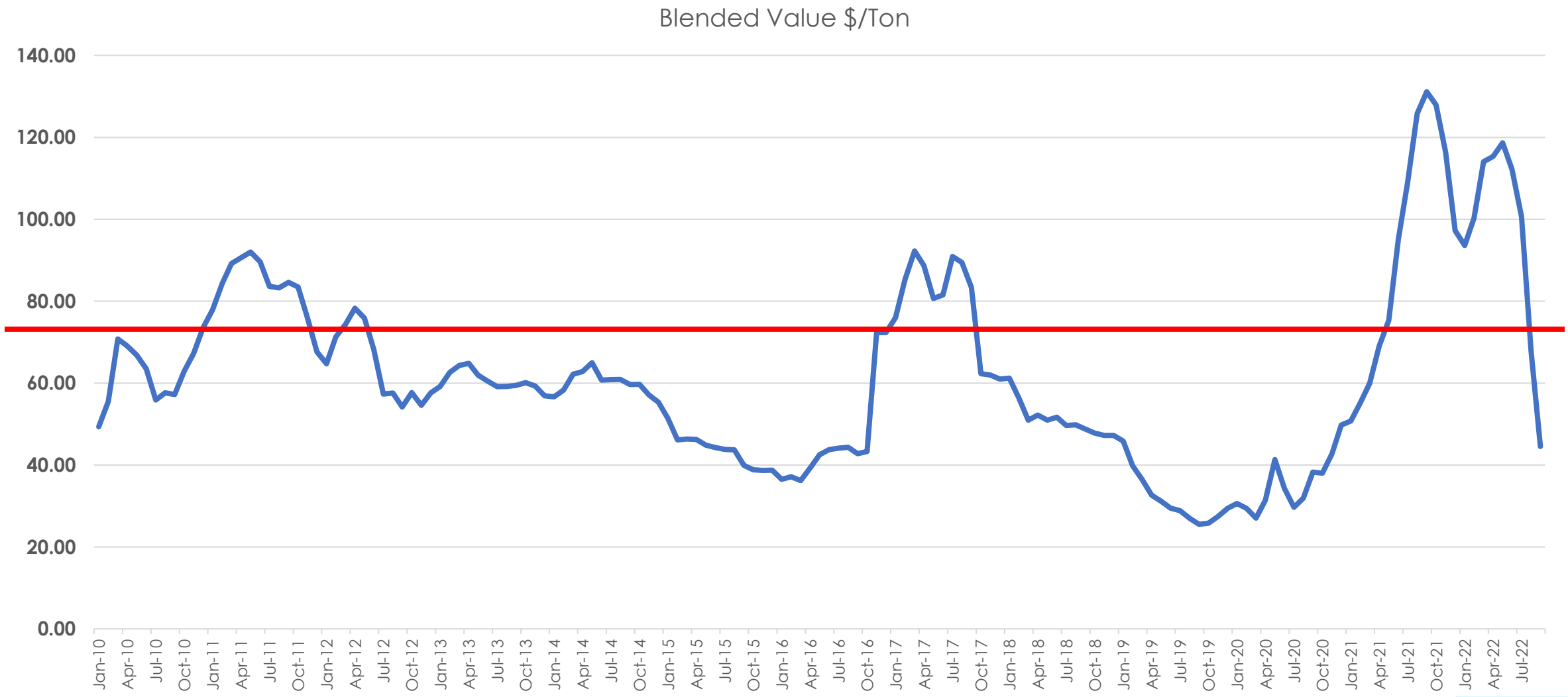
The Commingled Ton Since 2010



For illustration only, current materials mix

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Market Themes

- Demand for recovered materials generally high
- Lots of investment in domestic capacity since National Sword
- Recycled content goals being taken seriously by brand-owners
- Communities should make the connection to circular economy, but still need to think of recycling as a <u>public service</u> first

Slow Moving OCC Options

- Outdoor on-site storage
  - Update MRF self-certification for outside storage
    - Stormwater permit
    - Control of litter and maintaining marketability
  - Avoid litter, nuisance conditions
  - Maintain marketability
- off-site storage NR 502.05(3)(j), Wis. Adm. Code
  - Size, time, environmental controls, location
  - Maintain marketability

Slow Moving OCC Options – SSCM Compost?

Facility	County	Address	Zip	Contact	Email	Phone
County of Oneida	Oneida	7450 County	54501	Lisa Jolin	ljolin@co.oneida.wi.us	7152824945
METROPOLITAN REFUSE DIST INC	Dane	5211 County Road Q	535979425	Jeanne Whitish	jwhitish@purplecoworganics.com	6088310349
MILWAUKEE COUNTY HOUSE OF CORRECTION	Milwaukee	8885 S 68th St	531328202	Brandon Hutchins	Brandon.Hutchins@milwaukeecountywi.gov	4144274751
STANLEY CORRECTIONAL INSTITUTION	Chippewa	100 Corrections Dr	547686500	Tom Zemaitis	thomas.zemaitis@wisconsin.gov	7156443740
Purple Cow Organics LLC - DeForest	Dane	5338 Norway Grove School Rd	535321950	Jeanne Whitish	jwhitish@purplecoworganics.com	6083588978
Zillges Compost Facility	Winnebago	Bell School Rd		ALLEN WILDISH	ALLEN@ZILLGES.COM	9202311994
Skaar Compost Site	Dane	3355 County Road N	53527	DENNIS RICHARDSON	dennis@rghuston.com	6082559223
Hsu Growing Supply Facility 1	Marathon	T6500 County Road	54403	Dennis Brusky	dennis@hsucompost.com	7156755856
Wauwatosa Composting Facility	Milwaukee	11100 W Walnut Rd	532263042	David Simpson	dsimpson@wauwatosa.net	4148310799
Black Compost Products	Lincoln	W3001 County Road G	544529526	David Black II	HIGHGROUND1@FRONTIER.COM	7155366048
Watertown Cty Compost & Wbs Site	Jefferson	1355 Boomer St	530947301	Stacy Winkelman	stacyw@cityofwatertown.org	9202624047
Fitchburg Cty Compost Site	Dane	2373 S Fish Hatchery Rd	537115405	Aaron Rowland	aaron.rowland@fitchburgwi.gov	6082704260
Purple Cow Organics LLC - Meier Rd	Dane	3395 Meier Rd	537186711	Jeanne Whitish	jwhitish@purplecoworganics.com	6088310349
Seven Mile Creek Landfill LLC	Eau	8001 Olson Dr	547039727	Mark Vinall	mark.vinall@gflenv.com	7158300284
Blue Ribbon Organics	Racine	1137 27th St	531089722	James Jutrzonka	james@blueribbonorganics.com	2624978539
Serenity Farm Landscaping	Sheboygan			Serenity Farm Landscaping	office@serenityfarmlandscaping.com	9204570314

Slow Moving OCC Options – SSCM Compost?

Village of Egg Harbor Compost Site	Door	4581 Ball Park Rd		Jessica Reinke	jreinke@villageofeggharbor.org	9204937791
LOG GONE IT LLC	Dane	2079 County Highway Mm	53711	William Torgeson	loggoneit@gmail.com	6082204867
Brew City Compost	Waukesha	4180 N 128th St	530051834	Joe Fuchs	joe@brewcitycompost.com	4143313289
Petersen Dairy Farm	Outagamie	5410 N Ballard Rd	549138941	MARK PETERSEN	PETERSENDAIRY@AOL.COM	9202132629
Land Management Inc	Walworth	N625 Salt Box Rd	535859531	Steven Waddell	accounting@wwtruckinginc.com	2628824100
Uw Stevens Point Compost Facility	Portage	1900 Maria Dr	54481	Chris Brindley	cbrindle@uwsp.edu	7153463622
Earthbound Environmental Solutions LLC	Eau Claire	7380 USH 12 Site B	54720	Zacharious Pappas	admin@earthboundenviro.com	7152713178
Liesener Soils Compost Facility	Washington	1365 Spring Valley Rd	530379723	Kurt Liesener	kurt@liesenersoils.com	2626772032

- On farm sites (no DNR list)

Questions?

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