



Maryland
Department of
the Environment

MARYLAND USED OIL RECYCLING PROGRAM (CY20 DATA)

Prepared by:
Land and Materials Administration
Resource Management Program

Prepared for:
Senate Education, Health, and Environmental Affairs Committee

House Environment and Transportation Committee

Larry Hogan, Governor
State of Maryland

Boyd K. Rutherford, Lt. Governor
State of Maryland

Bill Ferguson, Senate President
Maryland General Assembly

Adrienne A. Jones, House Speaker
Maryland General Assembly

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MARYLAND DEPARTMENT OF THE ENVIRONMENT
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EXECUTIVE SUMMARY

The Maryland Used Oil Recycling Program (the Program) is administered by the Maryland Department of the Environment (MDE) through a memorandum of understanding (MOU) with the Maryland Environmental Service (MES). The authority for the Program is found in Section 5-1001 of the Environment Article of the Maryland Annotated Code, the *Maryland Used Oil Recycling Act*.

MES is responsible for implementing a statewide program for the construction, operation, and the routine maintenance of used oil collection facilities; providing public education and outreach programs related to the disposal of used oil; and maintaining an information center to educate citizens regarding the proper disposal of used oil. Additionally, MES utilizes the collection sites for the collection of related recyclables, including used antifreeze and oil filters.

MES also administers funding for the purpose of implementing supplemental environmental projects. Specifically, this grant funding is used to assist in the construction of rain shelters to minimize stormwater contact with the used oil collection tanks and is also used to fund the purchase of above-ground storage tanks for new sites, as well as replacements for older sites.

Since 1988, the Program has collected and recycled over 18.9 million gallons of used oil in the State of Maryland. Similarly, the Program has collected and recycled over 1 million gallons of used antifreeze from Maryland do-it-yourself automobile and boating enthusiasts.

During 2020, 415,739 gallons of used oil and 32,739 gallons of used antifreeze were collected from Program-sponsored locations. Additionally, during this period, 155 drums of used oil filters were collected for recycling.



Town of Thurmont

INTRODUCTION

The 2020 Maryland Used Oil Recycling Program Annual Report is provided to the Maryland General Assembly as required by Section 5-1001(g) of the Environment Article, the *Maryland Used Oil Recycling Act*.

The Maryland Used Oil Recycling Program (the Program) is administered by the Maryland Department of the Environment (MDE) through a memorandum of understanding (MOU) with the Maryland Environmental Service (MES). MES designates used oil collection facilities, offers technical and financial assistance to establish collection facilities, routinely inspects and cleans Program-sponsored facilities, provides public education, operates an information center, and implements other non-regulatory provisions of the *Maryland Used Oil Recycling Act*. MDE and MES are pleased to provide the following report detailing the accomplishments, initiatives, and progress of the Program during CY20 as well as plans for CY21.

BACKGROUND

The Program was created by the *Maryland Used Oil Recycling Act*, which was enacted in July 1978. Initial start-up funding for the Program was allocated from energy funds. This funding enabled the creation of a program to assist the home mechanic with proper used oil disposal. Farmers and boat owners at marinas also used these facilities for their oil recycling.



MES purchased oil collection tanks, collection boxes, hardware, and signs. County and local governments were solicited to assist in establishing convenient and accessible used oil collection sites for citizens. A variety of collection sites were established. Most are located at government-owned solid waste, public works, and road maintenance facilities.

The Program has been successful at recruiting and maintaining donor locations for several reasons: 1) free collection service of used oil; 2) Program-provided financial assistance for tanks and shelters; and 3) the Program assumes the responsibility for disposing of any contaminated used oil.

2019 PROGRAM UPDATES AND ACCOMPLISHMENTS

Since its inception in 1988, the Program has expanded from 44 collection sites to the current 136 operational sites and has recycled more than 18.9 million gallons of used oil over this time. Collection of used oil from all Program locations yielded 415,739 gallons of used oil in CY20. This was a 15.77% increase from the 359,100 gallons collected in 2019. Historical used oil and antifreeze annual collection results are summarized in graphs at the end of the report. Spreadsheets of the detailed used oil and antifreeze collection records for the participating Program sites are attached as well (Appendix A).

Key Updates and Accomplishments

- Collected and recycled 415,739 gallons of used oil
 - Increased from 359,100 gallons in 2019.
- Collected and recycled 155 drums of used oil filters.
- Added new collection site at St Mary's Airport.
- Assisted with relocation and new construction of the oil collection site at the Town of Thurmont.
- Replaced/upgraded antifreeze drums at Somers Cove Marina and 5 Wicomico County sites.
- Added oil filter recycling to Washington County.
- Updated multiple sites with new spill pallets, gauges, and fill boxes.
- Performed supplementary cleaning and maintenance at Program-sponsored locations during the year.
 - Eight Harford County sites are cleaned twice weekly (through an independent agreement between MES and Harford County).
 - Enhanced cleanings at 24 sites utilizing the mobile cleaning unit.
 - Oily water removal from 15 sites using our water recovery system.
 - Painted and replaced stickers at more than 15 sites.



Administration

For the past several years prices for used oil have declined, leading collection service providers to reduce or eliminate payment for used oil. As such, most program funding for MES came directly from MDE. In FY19 the funding was \$99,950 and in FY20 the funding was \$99,976. While this funding allowed the Program to continue at a most basic level, it was not a sustainable long-term level of funding.

In response to increased prices in the oil market, MES issued a public bid for collections in April 2020. The winning bid was a price per gallon ranging from \$0.00 to \$1.00 of used oil depending on the market price average, leading to an estimated \$52,500 in FY21. MDE continued to provide the new baseline level of support for FY21, funding the program at \$99,976. This funding, coupled with expected revenue from the new collection contract, brings the total program funding to \$152,476.

Operation and Maintenance

Good housekeeping practices are important aspects of spill control and contamination prevention. As part of its management of the Program, MES has conducted on-site audits of all Program-sponsored collection facilities to ensure that sponsors, recycling coordinators, site supervisors, and site operational staff are aware of their pollution prevention responsibilities. Additionally, MES staff conducted routine cleaning and maintenance, as necessary, to assist the site hosts in maintaining environmental compliance. During CY20, MES performed supplementary cleaning and maintenance at most Program-sponsored locations.



To reduce costs associated for cleanings and water recovery completed by private contractors, MES developed a mobile cleaning trailer for use at oil collection sites. The trailer, equipped with a power washer, water tanks, and a water recovery system allows staff to thoroughly clean collection sites and recover the resulting oily water. The mobile cleaning trailer was deployed 15 times in 2020 for enhanced cleanings and oily water recovery, resulting in significant savings to the used oil program when compared to contractor cleanings.

MES continually reminds all site hosts that they are responsible for providing day-to-day monitoring and housekeeping of their tanks. Staff assists with housekeeping and compliance as needed, based on the results of routine site inspections. MES maintains a full-time staff to conduct routine site audits and assist with site maintenance and cleaning. Sites are upgraded, as needed, to increase compliance and minimize the potential for impacts to the environment.

Given the concern over proper disposal of used oil, contaminated oil, and unauthorized dumping of trash and hazardous materials, MES continues to urge site hosts to remain in the Program. Because used oil can be easily contaminated with polychlorinated biphenyls, brake cleaning fluids, and other readily accessible chemicals, MES and MDE concur that citizens are better served by local governments staying within the established Program.

Public Outreach

MES and the MDE each maintain a webpage with information related to the Program.

MES' webpage:

menv.com/service/used-oil-antifreeze-recycling/

MDE's webpage: mde.maryland.gov/programs/Land/OilControl/Pages/UsedOilProgram.aspx

From the MES webpage, Marylanders can find the public information number **800-4RECYCLE** (800-473-2925) and an email address to inquire about proper disposal of used oil and antifreeze. MES also has a listing of collection sites by county. Hundreds of calls were made to the public information number in 2020, with most callers requesting information on used oil collection locations.

During CY20, information was provided to the public about the importance of proper handling, disposal, and recycling of used oil and antifreeze via education and outreach events and social media.

PLANNED ACTIVITIES FOR 2020

Administration

- MDE will continue to fund the Program and MES will continue to implement the Program.
- MES will continue the grant program to assist locations in upgrading existing sites.

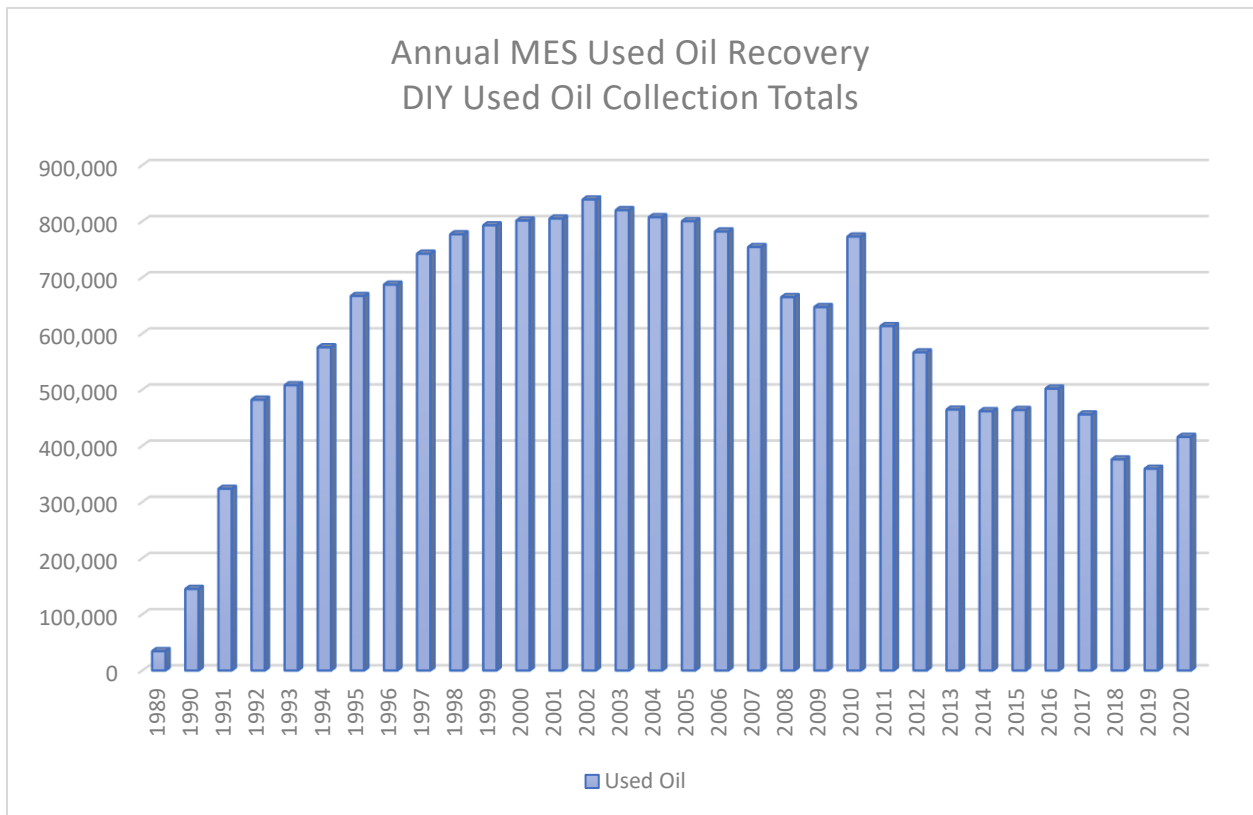
Operation and Maintenance

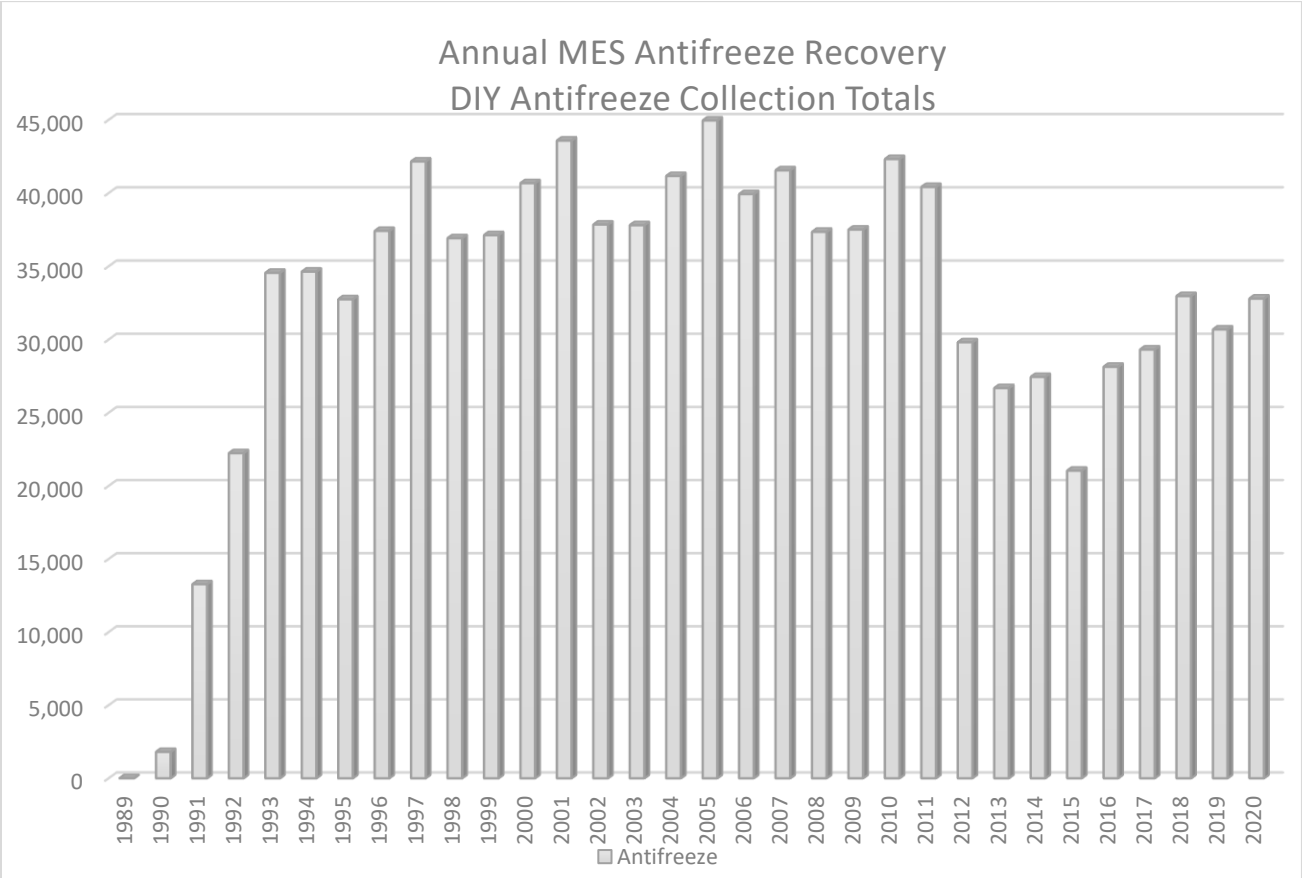
- MES will continue annual inspections of all Program-participating sites to ensure continued protection of the environment.
- MES will continue the routine maintenance and cleaning program to ensure safe operation at participating sites.
- MES will continue the tank upgrade program by replacing single-wall 275-gallon tanks with new, more environmentally protective double-wall tanks.
- MES will explore ways to improve automated monitoring of participating sites to deter abuse of the facilities.

Public Outreach

- MES will continue updating and linking the used oil recycling pages and continue public outreach and education at local county events.
- MES will send annual program reports to solid waste managers and recycling coordinators.

- MES will continue membership in the Association of Responsible Recyclers while updating Program participants and citizens with current information, issues, and trends within the industry.
- MES will explore additional ways to market the Program to the public.





APPENDIX A

USED OIL and ANTIFREEZE COLLECTION DATA

CY20

**Maryland Environmental Service
2020 Used Oil Collection Report (gallons)**

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Allegany County	Allegany County Road's		237				155		100	340				832
	Allegany County SW TF		190				243			160				593
	Allegany County Transit		142				108			69				319
	Flintstone SW Collection	214					406	300		150				1,070
	Mbuntainview LF	427	28		450		375	450	225	470		480		2,905
	Penn Mar Recycling	190	71		415		359	450	300	500		480		2,765
Allegany County Oldtown							370		450					820
Anne Arundel County	Annapolis Landing Marina	261						252		114			250	877
	Casa Rio Marina			237			252			238		265	275	1,267
	Crownsville Hospital										250			250
	Magothy Marina													0
	Mears Marina													0
	Port Annapolis										275		260	535
	White Rocks Marina			114						119				233
Hidden Harbor Marina	190										480		670	
Baltimore City	Eastern Sanitation Yard	170	66					170					400	806
	Northwest Sanitation Yard		142	142			55	200	375		250		550	1,714
	Northwest Transfer Station			475									475	950
	Quarantine Road Landfill									1,055		250		1,305
	Western Sanitation Yard												160	160
Baltimore County	Bowley's Marina					275				275		265		815
Caroline County	Holly Collection Site	665	275	660	1,225	562	600	1,267	510	935	670	710	730	8,809
	Melville Collection Site			43			225					200		468
	Midshore II Regional Landfill		332				350				400			1,082
	Old Denton Collection Site			323			225					460		1,008
	Preston Collection Site			190				275					275	740
	Denton Dept. Public Works													0
Carroll County	Carroll County Fleet						250	350	400	270			995	2,265
	Manchester Town Garage	332	570	522	625	150	425	350	375	740	580	380	600	5,649
	City of Taneytown Recycling		285			450	450		500		475	250	200	2,610
	Hampstead Town Maintenance	285	214	356	400	300	275	400	250	475	315	200	450	3,920
	Hoodmill Landfill				225									225
	Northern Landfill	1,899	1,947	2,795	2,135	3,100	3,275	2,975	3,400	3,065	2,710	2,630	2,035	31,966
	Westminster PW	498	664	617	675	825	875	625	650	700	855	270	835	8,089
Town of Sykesville	736	332	546	1,135	575	750	975	600	725	1,240	575	450	8,639	
Cecil County	Cecil County Central Landfill	1,095	854	546	1,075	1,400	1,075	1,175	975	750	1,320	1,120	385	11,770
	Locust Point Marina									200				200
	Stemmers Run TS			427		450			400		400		370	2,047
	Town of Elkton Public Works	301	180	285	175	300	100	500	410	480	375		200	3,306
	Woodlawn Transfer Station	408	313	209	350	730	340	825	480	475	455	725	480	5,790
	Bohemia Vista Marina									124	230			354
Dorchester County	Beulah Landfill				790						903			1,693
	Cambridge WWTP												140	140
	City of Cambridge Public Works	227	247	157	425	253	225	400	400	330	280	280	150	3,374
	Golden Hill Landfill	266					370				380			1,016
	Secretary Transfer Station	142	76		200		250	200		238		200		1,306
Frederick County	Brunswick PW Garage	237	237	237	425	400	450	450	650		495	475	520	4,576
	Brunswick DWP (Shop)													0
	Mt. Airy Maintenance Facility	1,164	1,116	926	1,300	1,050	1,475	1,850	1,300	1,450	1,375	1,050	1,105	15,161
	Frederick County Recycling	1,899	1,306	1,614		850	3,250	2,750	2,250	1,620	2,815	1,735	2,235	22,324
	Town of Thurmont	380	190	285	375	160	950	325			550	475	760	4,450

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total	
Talbot County	Bellevue Landing		43		100		75	200				140		558	
	Dogwood Harbor	209		133	225	170		160	200		400	425	300	2,222	
	Midshore Regional Landfill		332		363	425		265		475		490	130	2,480	
	Neavitt Landing	71		47	75	60		190	100		130	170		843	
	Oak Creek Landing	194	66	142	245	205	120	350	310	238	393	180	270	2,713	
	Trappe Landing	142	123		100	225		200	130				200		1,120
Washington County	Dargan Transfer Station			214			250				260		130	854	
	Greensburg TS	95	190	142	425	250		425	250		390	230		2,397	
	Hancock Landfill					475				275			150	900	
	Kaetzel Transfer Station	119	95	119	250	150	150	150	250		260		275	1,818	
	40 West Landfill	427	830	499	875	500	1,575	575	1,275	620	500	640	950	9,266	
	Town of Boonsboro							550							550
Wicomico County	Airport Conv Center	190		218	220		180		150		75		260	1,293	
	Bivalve Conv Center	114			90					275				479	
	Delmar Conv Center				275		200				270	165		910	
	Fruitland Conv Center	125	95		250		190			275		200		1,135	
	Hebron Conv Center	104			230					170				504	
	Mardela Springs Conv Center				250				275		260			785	
	Newland Park LF Conv Center	285							1,730	1,403	1,580	660	1,085	6,743	
	Parsonsborg Conv Center	123	66	104	225		220		275		260	130		1,403	
	Quantico Conv Center	190			50						275			515	
	Sharptown Conv Center			237			250				260			747	
	Wango Conv Center	237		233	275		275		275	160	120		275	1,850	
	Wicomico Co. SW & Recycling	864	902	949	1,459	1,242	1,100	1,530			225			8,271	
	Worcester County	Berlin Conv Center	474	356	256	375	350	620	680	268	618	245	540		4,782
		Central Landfill	186	71				3				420	150		830
Pocomoke City Conv Center		228					650				437	120		1,435	
Snow Hill Conv Center		190		261	250		250				260	200		1,411	
Worcester County DPW														0	
Total Gallons		29,310	21,658	24,525	36,711	30,026	45,119	39,069	37,581	40,182	45,856	31,248	34,454	415,739	

**Maryland Environmental Service
2020 Antifreeze Collection Report (gallons)**

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Allegany County	Allegany County Road's													0
	Allengany County SW TF													0
	Allengany County Transit													0
	Flintstone SW Collection													0
	Moutainview LF									180				180
	Penn Mar Recycling	100								200		180		480
Allegany County Oldtown													0	
Anne Arundel County	Annapolis Landing Marina									40				40
	Casa Rio Marina						55							55
	Crownsville Hospital													0
	Magothy Marina													0
	Mears Marina													0
	Port Annapolis										30			30
	White Rocks Marina									40				40
	Hidden Harbor Marina													0
Baltimore City	Eastern Sanitation Yard													0
	Northwest Sanitation Yard													0
	Northwest Transfer Station													0
	Quarantine Road Landfill													0
	Western Sanitation Yard													0
Baltimore County	Bowley's Marina								180		125		305	
Caroline County	Holly Collection Site					200				170				370
	Melville Collection Site													0
	Midshore II Regional Landfill													0
	Old Denton Collection Site											120		120
	Preston Collection Site													0
	Denton Dept Public Works													0
Carroll County	Carroll County Fleet			240										240
	Manchester Town Garage			250					250			80		580
	City of Taneytown Recycling													0
	Hampstead Town Maintenance							190		60				250
	Hoodmill Landfill						225							225
	Northern Landfill	220	300	250	250	250	550	275	225	350	350	125	400	3,545
	Westminster PW													0
Town of Sykesville	325					250			225	120		275	1,195	
Cecil County	Cecil County Central Landfill			200			300			275		50		825
	Locust Point Marina													0
	Stemers Run TS													0
	Town of Elkton Public Works									80				80
	Woodlawn Transfer Station				100					235				335
	Bohemia Vista Marina									25	55			80
Dorchester County	Beulah Landfill													0
	Cambridge WWTP													0
	City of Cambridge Public Works									275				275
	Golden Hill Landfill										55			55
	Secretary Transfer Station									50				50
Frederick County	Brunswick PW Garage													0
	Brunswick Dept PW													0
	Mt. Airy Maintenance Facility		275		250		275		300	80	150		100	1,430
	Frederick County Recycling		350			300	400	500		450	300	140	350	2,790
	Town of Thurmont	100			75								60	235

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Talbot County	Bellevue Landing													0
	Dogwood Harbor													0
	Midshore Regional Landfill				250							100		350
	Neavitt Landing													0
	Oak Creek Landing													0
	Trappe Landing													0
Washington County	Dargan Transfer Station												80	80
	Greensburg TS											120		120
	Hancock Landfill												75	75
	Kaetzel Transfer Station										70		80	150
	40 West Landfill	225					250			260		120		855
	Town of Boonsboro													0
Wicomico County	Airport Conv Center		55											55
	Bivalve Conv Center								55	10				65
	Delmar Conv Center										25			25
	Fruitland Conv Center	55								85				140
	Hebron Conv Center									70				70
	Mardela Springs Conv Center								55					55
	Newland Park LF Conv Center	500								500				1,000
	Parsonsborg Conv Center								55					55
	Quantico Conv Center								55					55
	Sharptown Conv Center										30			30
	Wango Conv Center		55							25				80
	Wicomico Co. SW & Recycling					400								400
Worcester County	Berlin Conv Center									40				40
	Central Landfill										80			80
	Pocomoke City Conv Center													0
	Snow Hill Conv Center										80			80
	Worcester County DPW													0
		January	February	March	April	May	June	July	August	September	October	November	December	2019 Totals
Total Gallons		2,950	2075	1390	3165	1735	4060	1600	2705	5905	2610	2320	2280	32,795

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Talbot County	Bellevue Landing													0
	Dogwood Harbor													0
	Midshore Regional Landfill													0
	Neavitt Landing													0
	Oak Creek Landing													0
	Trappe Landing													0
Washington County	Dargan Transfer Station													0
	Greensburg TS													0
	Hancock Landfill													0
	Kaetzel Transfer Station													0
	40 West Landfill													0
	Town of Boonsboro													0
Wicomico County	Airport Conv Center													0
	Bivalve Conv Center													0
	Delmar Conv Center													0
	Fruitland Conv Center													0
	Hebron Conv Center													0
	Mardela Springs Conv Center													0
	Newland Park LF Conv Center												2	2
	Parsonsburg Conv Center													0
	Quantico Conv Center													0
	Sharptown Conv Center													0
	Wango Conv Center													0
Wicomico Co. SW & Recycling													0	
Worcester County	Berlin Conv Center													0
	Central Landfill													0
	Pocomoke Conv Center													0
	Snow Hill Conv Center													0
	Worcester County DPW													0
		January	February	March	April	May	June	July	August	September	October	November	December	2020 Totals
Total Drums		16	31	5	10	12	5	6	40	4	18	6	2	155