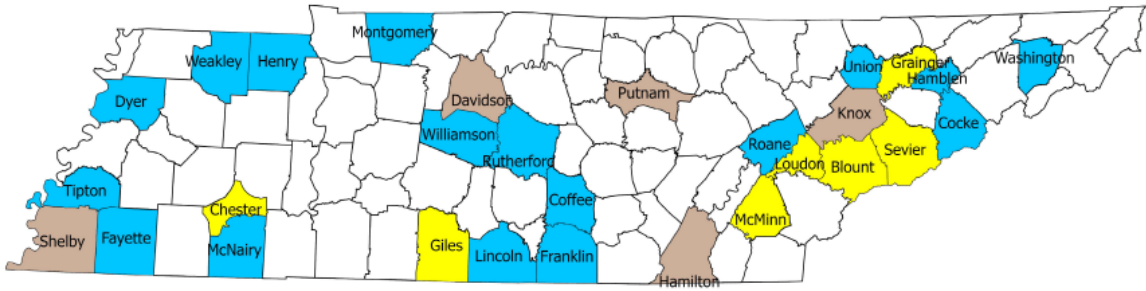



2022 Spring County HHW Events and Other Disposal Options



For info on dates, locations, and acceptable/ unacceptable items, please visit: <https://www.tn.gov/environment/sw-mm-household-hazardous-waste-program.html>

2022 HHW Event Types

- Spring Mobile Events
- Temporary HHW Containers (available to all Tennessee Residents)
- Permanent HHW Containers (operated for specific counties)



Spring 2022 Mobile HHW Analysis Season Report



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Overview

Since the program's inception in 1993, the Tennessee Department of Environment and Conservation (TDEC) continues to provide the Tennessee Household Hazardous Waste Mobile Collection Event services to counties to aid in the management of household hazardous wastes (HHW). Regulations for HHW are found in Tennessee Code Annotated [Title 68 chapter 211](#). To date, there have been over 1,450 one-day collection events with over 369,000 Tennessee families safely disposing over 24 million pounds of HHW.

HHW is any unwanted, spent, used household product that can catch fire easily (flammable); eat away at or irritate living tissue (corrosive, both acid and base); react violently with water or other chemicals (reactive); or is poisonous to humans or animals (toxic). Usable household products may exhibit hazardous properties but until they become a waste they are not appropriate for the HHW program.

The Mobile Collection Service is open to any Tennessee resident and is limited to households. Businesses, institutions, schools, and agri-business operations may not use this service, but can participate as a Very Small Quantity Generator (VSQG) which can assist with reduced mobilization fees for proper business waste disposal. Persons or businesses interested in participating in the business waste should refer to the following web site: <https://www.tn.gov/environment/sw-mm-household-hazardous-waste-program/very-small-quantity-generators.html>.

Counties request mobile HHW events using a tiered priority listing provided by TDEC. Interested parties can find the tiered guidelines on the Department's website in the [Mobile HHW Collection Service Guide](#). As the county requests are submitted, the schedule is set trying to maximize access of the majority of the citizens.

Season Participation Analysis

The 2022 Spring HHW (March 19th – May 21st) event season ended with 16 counties hosting 2,220 households versus 28 counties and 3,920 households in Spring 2019. The season saw an 10.68% decrease in participation when evaluated among counties with comparative events in Spring 2019 (see table 3). Lincoln County did not have a comparable time frame for household analysis and therefore was not included in Table 3.

Batteries, Oil, Paint, Electronics and Antifreeze (BOPAE) continue to be a focus by the counties through the year. The Department conducted thirteen oil-based paint and nineteen fluorescent lamp milk runs in Fall 2021. The frequency and convenience of BOPAE collections provides added service for the citizens and spreads the workload for the collection sites. TDEC provided laminated paint job aids that assisted counties to identify and segregate oil paint that needed to be collected. These tips for identifying latex and water-based paint were useful to help solidify and manage latex paint in the solid waste stream.

In an effort to increase year-round access for HHW disposal, the Department has strategically placed seven temporary HHW containers across the state (Chester, Giles, Blount, McMinn, Loudon, Sevier, and Grainger Counties) that are available to all citizens of Tennessee. In the first half of 2022, the containers collected 8,433 lbs. of HHW via two milk runs.

The season concluded with a total of 197,381 pounds of discarded household hazardous waste that was collected in the combined 51 events (33 milk runs of oil-based paint, bulbs, and other HHW for a total of 121,619 pounds, other mobile HHW events included in tables 1-3). The Department collected through mobile events and milk runs: oil based

paint, fluorescent bulbs, and other HHW at county facilities throughout the year and then picked up these materials by a contractor for proper disposal that resulted in a total cost of \$210,527.45 (milk runs, \$45,687.67 other included in tables 1-3).

Summary of mobile HHW materials collected (Additional Data in Tables 1-3)

- Corrosive acids (Sulfuric acid, phosphoric acid, CLR cleaner, muriatic acid, battery acid); 1,879 pounds
- Corrosive Bases (Drano, sodium hydroxide); 4,273 pounds
- Pesticides, herbicides, rat poisons, insecticides, animal medications; 20,664 pounds
- Flammables, gasoline, charcoal lighter, kerosene, paint thinners; 14,535 pounds
- Aerosols, paint, health & beauty aids, insecticides, lubricants, cleaners; 5,583 pounds
- Mercury; 63 pounds
- Oxidizers, bleach, chlorine, pool sanitizers; spa and hot tub sanitizers; 528 pounds

Advertising

The Materials Management Program requires advertising and information sharing. The Department shared as an outreach to the counties, recommendations for advertising and promoting the events to help maximize communication opportunities in the serviced areas. The Program encouraged counties and participating organizations to reach out to public utilities, business employee newsletters, social media, and other forms of information sharing. Additionally, TDEC Central Office shared the schedule at the beginning of the Spring HHW season by using MyEmma as a platform for sending emails to interested citizens who have shared email addresses. Department drug take back programs coordinated by some counties increased the take back of products and increased awareness of the hazards of pharmaceuticals in households. Additional events associated with HHW collection events at some counties included beneficial item collection with local non-profits and electronics collections.

Safety

TDEC Materials Management Program considers safety the highest priority for state, county, volunteer staff, and participants. The TDEC event staff prioritized safety by wearing high visibility safety vests, making first aid kits available and providing additional event resource materials that encourage site safety. Many event staff workers have received CPR and AED training with a goal for all staff to be prepared for unexpected situations that may occur at mobile events. Clean Harbors, the event contractor, provides an onsite chemist and additional technical staffing who assists with the proper segregation of chemicals and Department of Transportation (DOT) requirements for safe packaging and transportation.

As industries develop household materials that may cause problems for proper disposal or impacts safe management, TDEC searches for consumer-based solutions. Disposal option challenges for sharps, needles, lancets, and auto inject pens caused the Program to expand this option to HHW mobile events. As participants remove these materials from the solid waste stream, the safety of solid waste staff, haulers, landfill staff and maintenance staff is greatly increased. HHW participants appreciate this added option and benefit from this expansion.

The Program urges counties to submit their recommended dates by December 1, 2022 so that staff may schedule the upcoming year's events by mid-January 2023. The Department will post the mobile event schedule at <http://tn.gov/environment/hhw/schedule> for public review.

Individual Counties-Participation-Table 1 of 3						
Event Date	County	Participation	Cost	Cost/HH	Cost/lb	lbs/HH
3/19/2022	Montgomery	406	\$30,368.22	\$74.80	\$2.51	29.78
3/26/2022	Fayette	66	\$7,940.07	\$120.30	\$1.97	61.09
3/26/2022	Hamblen	315	\$4,163.45	\$13.22	\$2.66	4.98
3/26/2022	Roane	82	\$3,932.58	\$47.96	\$2.04	23.52
4/2/2022	Rutherford	150	\$15,548.64	\$103.66	\$2.16	47.97
4/2/2022	Washington	54	\$6,313.65	\$116.92	\$3.35	34.94
4/9/2022	Lincoln	29	\$2,969.10	\$102.38	\$1.96	52.10
4/9/2022	Weakley	20	\$1,900.90	\$95.05	\$3.13	30.40
4/23/2022	Cocke	35	\$730.98	\$20.89	\$4.54	4.60
4/23/2022	Coffee	193	\$12,776.12	\$66.20	\$2.08	31.85
4/30/2022	Dyer	70	\$9,075.26	\$129.65	\$2.37	54.73
4/30/2022	Franklin	202	\$9,143.82	\$45.27	\$3.06	14.82
4/30/2022	Williamson	458	\$46,197.43	\$100.87	\$2.64	38.23
5/7/2022	McNairy	26	\$2,185.30	\$84.05	\$2.10	40.12
5/14/2022	Tipton	91	\$7,826.42	\$86.00	\$3.24	26.52
5/21/2022	Union	23	\$3,767.84	\$163.82	\$2.83	57.87
	Season Totals	2,220	\$164,839.78	Average \$85.68	Average \$2.66	Average 34.59

Individual Counties-Participation-Table 2A of 3 (Weight in Pounds)								
County	Flammable Liquids	Non Flam Liquid	Poisonous Material	Acid	Caustics	Oxidizers	Reactives	Dry Cell Batteries
Montgomery	3,137	1,614	3,714	332	852	64		
Fayette	658	1,040	776	139	128	4		
Hamblen	326	373	440	88	152	2		
Roane	1,106		523	53	2	4		
Rutherford	1,065	2,228	2,053	182	316	28		
Washington	552		814	113	170	37		1
Lincoln	470	470	410	34	61			
Weakley	136		116	2	24	6		
Cocke	31		67					12
Coffee	1,119	1,685	1,475	99	270	17		
Dyer	351	582	1,266	40	86	1	4	17
Franklin	346	672	1,004	114	229	203		
Williamson	3,950	1,708	6,272	506	1,463	131		
McNairy	567		339	23	21			
Tipton	558		976	78	380	31		
Union	163	370	419	76	119		2	15
Season Totals	14,535	10,742	20,664	1,879	4,273	528	6	45

Individual Counties-Participation-Table 2B of 3 (Weight in Pounds)							
County	Oil Paint	Aerosols/ Compressed Gas	Oil	Mercury	Fluorescent Lamps	Sharps	Total
Montgomery	766	1,320		1	189	102	12,091
Fayette	947	231		1	98	10	4,032
Hamblen		149		6		32	1,568
Roane		232			1	8	1,929
Rutherford	450	364	282	4	131	92	7,195
Washington		98		31	68	3	1,887
Lincoln		65		1			1,511
Weakley		282			42		608
Cocke		16		12	23		161
Coffee	679	466		1	284	52	6,147
Dyer	823	258			400	3	3,831
Franklin		322		2	99	2	2,993
Williamson	1,928	1,312		3	154	81	17,508
McNairy		68			1	24	1,043
Tipton	102	248			28	12	2,413
Union		152		1	14		1,331
Season Totals	5,695	5,583	282	63	1,532	421	66,248

HHW County Participation Comparison Table 3 of 3			
County	Spring 22	Spring 19	Spring 21/19
Montgomery	406	275	47.64%
Fayette	66	50	32.00%
Hamblen	315	304	3.62%
Roane	82	95	-13.68%
Rutherford	150	346	-56.65%
Washington	54	92	-41.30%
Weakley	20	49	-59.18%
Cocke	35	53	-33.96%
Coffee	193	108	78.70%
Dyer	70	69	1.45%
Franklin	202	256	-21.09%
Williamson	458	546	-16.12%
McNairy	26	25	4.00%
Tipton	91	155	-41.29%
Union	23	30	-23.33%
Households	2191	2453	-10.68%

The Spring 2022 HHW event season ended with 16 counties hosting 2,220 households versus 29 counties and 4,176 households in Spring 2019. A 10.68% decrease in participation from the 2019 Spring season can be seen when evaluated using same counties. Lincoln County did not have a comparable time frame for household analysis and therefore is not included in Table 3.



Tennessee Department of Environment and Conservation,
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