

Environmental Committee
June 21, 2021
7:00 p.m. – Police Training Room

1. Call to Order
2. Public Comment
3. Introduction
4. New/Business/Old Business
 - a. Elect chairperson
5. Committee Items
 - a. Monarch Butterfly Program
 - b. Clarke Mosquito
 - c. DuPage County Annual Waste and Recycling Report
6. Next Meeting
7. Adjournment

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 17, 2021

RE: Chairperson

Please be advised that a new chairperson will be elected on Monday, June 21st.
According to City Code, a chairperson is elected for a two-year term.

2-3-4: CHAIRMAN:

A chairman, who shall be elected by the majority of committee members, shall serve a term of two (2) years.

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 17, 2021

RE: Monarch Project

On May 17, 2021, City Council approved a resolution in support of DuPage Monarch Project and the enhancement and expansion of available habitat for monarch butterflies and other native pollinators. The committee will discuss the attached resolution.

Additional information may be found at <https://dupagemonarchs.com/>

RESOLUTION NO. _____

WHEREAS, on a national level, conservation organizations such as the National Wildlife Federation and the U.S. Fish and Wildlife Service have undertaken efforts to reinvigorate milkweed and other nectar-producing plants to help restore Monarch habitat in open spaces and suburban and urban gardens; and

WHEREAS, the Mid-America Conservation Strategy has identified a Monarch habitat restoration target of an additional 1.3 billion stems of milkweed by 2038 which will sustain a resilient population size; and

WHEREAS, the Illinois Monarch Project has developed a state-wide monarch conservation plan calling for 150 million new stems of milkweed, Illinois' share of the Mid-America Conservation Strategy; and

WHEREAS, because there are many different species of milkweed in the U.S., it is important to recognize that only native milkweed is vital to the restoration and survival of the monarch habitat in Illinois; and

WHEREAS, DuPage County Forest Preserve District, River Prairie Group of the Sierra Club, The Conservation Foundation, and the Wild Ones of Greater DuPage, a native plant advocacy group, are encouraging communities to plant native milkweed and valuable nectar plants where appropriate;

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DUPAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The Recitals set forth above are incorporated herein and made a part of this Resolution as if set forth fully herein.

SECTION 2: The City Council hereby authorizes the City Administrator to increase and improve available habitat for Monarch butterflies and other native pollinators through the following actions:

- Improve and increase plantings of milkweed and native pollinator plants on city lands.
- Identify locations where native milkweed and nectar plants can be newly planted or incorporated into existing plantings.
- Create at least one Monarch Waystation that meets Monarch Watch certification criteria;
- Install signage near Monarch-friendly plantings to provide educational facts about Monarch butterflies, other native pollinators, and their habitat in order to increase public awareness and education.

SECTION 3: This Resolution shall be effective immediately upon its passage and approval by a majority of the City Council.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 3rd day of May, 2021.

AYES: _____

NAYS: _____

ABSENT: _____

RESOLUTION NO. _____

**A RESOLUTION IN SUPPORT OF DUPAGE MONARCH PROJECT AND THE
ENHANCEMENT AND EXPANSION OF AVAILABLE HABITAT FOR MONARCH
BUTTERFLIES AND OTHER NATIVE POLLINATORS**

WHEREAS, the City of Darien has adapted the maintenance of a parcel of land located near City Hall and the Police Station to protect milkweed plants growing there; and

WHEREAS, the Darien Rotary Club has passed an Operation Pollinator resolution to work collaboratively with partners in protecting pollinators; and

WHEREAS, the Darien Garden Club has pledged to be a partner of Operation Pollination and has joined DuPage Monarch Project as an associate member; and

WHEREAS, the Indian Prairie Public Library offers hands on pollinator programs in its Prairie Patch community garden and hosts community programs about monarchs and pollinators; and

WHEREAS, the Darien Park District has established habitat for pollinators and butterflies, at Chestnut Park, Birchwood Park, South Grove Playground and Darien Community Center, providing milkweed for monarchs to lay eggs, leaves for caterpillars to eat and grow and nectar for the long journey south; and

WHEREAS, the City of Darien is adjacent to Waterfall Glen, a 2,503 acre preserve with open land and natural area which are part of the local network of resting and feeding sites for migrating monarchs; and

WHEREAS, many of the 4,000 species of native U.S. bees providing critical pollinating services to food, ornamental and wildflower species have experienced significant decline; and

WHEREAS, Illinois designated the iconic Monarch butterfly as the official state insect in 1975 as the result of lobbying by Illinois schoolchildren; and

WHEREAS, scientific studies point to the rapid decline of the Monarch butterfly due to the loss of milkweed habitat needed to lay their eggs and for their caterpillars to eat, resulting from development, land management practices, and chemically-aided agriculture in the United States and Canada; and

WHEREAS, the population of eastern Monarch butterflies declined by 26% in 2020; and

WHEREAS, because the decimation of pollinators, including the North American Monarch, which serves as an iconic species, has potential negative consequences for natural ecosystems as well as for human food production, the U.S. Fish and Wildlife Service reviewed the status of Monarch butterflies in 2020 and determined they meet the criteria for designation as threatened under the Endangered Species Act but delayed federal protection at this time due to the number of species in greater peril; and

WHEREAS, research by the Field Museum found cities can provide 15 – 30 percent of the milkweed needed to save monarchs; and

RESOLUTION NO. _____

APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY,
ILLINOIS this 3rd day of May, 2021.

ATTEST:

JOSEPH MARCHESE, MAYOR

JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:

CITY ATTORNEY

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 17, 2021

RE: Environmental Mosquito Management (EMM) Program

Clarke Environmental Mosquito Management, Inc. began its second year of their contract. The outline of services to be provided by Clarke during this period are detailed in the attached and include the following: General Service, Surveillance and Monitoring, Larval Control and Adult Control. Further, upon completion of these services, the City of Darien receives notification via email from Clarke.

In addition, the first report of 2021 is available and can be found on the City's website.

RESOLUTION NO. R-05-20

A RESOLUTION AUTHORIZING THE CITY ADMINISTRATOR TO ENTER INTO AN AGREEMENT WITH CLARKE MOSQUITO FOR AN ADDITIONAL THREE YEARS

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, as follows:

SECTION 1: The City Council of the City of Darien hereby authorizes the City Administrator to enter into an agreement with Clarke Mosquito for an additional three years, attached hereto as "Exhibit A".

SECTION 2: This Resolution shall be in full force and effect from and after its passage and approval as provided by law.

PASSED BY THE CITY COUNCIL OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 20th day of January, 2020.

AYES: 7 - Belczak, Chlystek, Gustafson, Kenny, Schauer, Sullivan, Vaughan

NAYS: 0 - NONE

ABSENT: 0 - NONE

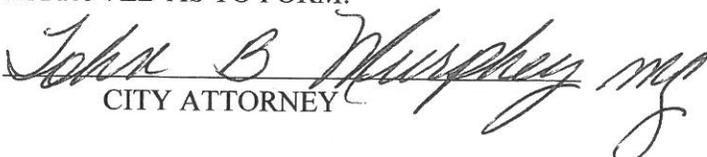
APPROVED BY THE MAYOR OF THE CITY OF DARIEN, DU PAGE COUNTY, ILLINOIS, this 20th day of January, 2020.



JOSEPH A. MARCHESE, MAYOR

ATTEST:


JOANNE E. RAGONA, CITY CLERK

APPROVED AS TO FORM:


CITY ATTORNEY





**Clarke Environmental Mosquito Management, Inc.,
Professional Services Outline for
The 2020-2022 City of Darien EarthRight
Environmental Mosquito Management (EMM) Program**

Part I. General Service

- A. Aerial Survey and Geographic Information System (GIS) Mapping
- B. Computer System and Record Keeping Database
- C. Public Relations and Educational Brochures
- D. Mosquito Hotline Citizen Response – (800) 942-2555
- E. Comprehensive Insurance Coverage naming the City of Darien additionally insured
- F. Program Consulting and Quality Control Staff
- G. Monthly Operational Reports, Periodic Advisories, and Annual Report
- H. Regulatory compliance on local, state, and federal levels

Part II. Surveillance and Monitoring

- A. Floodwater Mosquito Migration Model:
The use of weather data and computer model to predict the arrival of *Aedes vexans* brood (hatch) and peak annoyance periods. (Clarke will contact the City of Darien representative and inform him/her of the impending brood arrival.
- B. Arbovirus Surveillance:
 - 1. Clarke New Jersey Light Trap Network to monitor and evaluate adult mosquito activity.
- C. Weather Monitoring – Operational Forecasts

Part III. Larval Control

- A. Targeted Mosquito Management System (TMMS™) computer database and site management.
- B. Larval Site Monitoring: 12 inspections
 - 1. Four (4) complete inspections of up to 76 sites as outlined by most recent Clarke GIS Survey.
 - 2. Five (5) targeted inspections of up to 38 breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 3. Three (3) targeted inspections of up to 33 known *Culex spp.* breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 4. Inspections of sites called in by residents on the Mosquito Hotline.
- C. Prescription Larval Control will be performed with Natular™ mosquito larvicide as described in the following sections.
 - 1. Larval Control: The program provides for up to 73 acres of single brood or 30 day residual product with backpack or hand equipment or with helicopter.
 - 2. Larval Control: The program provides for 3 backpack pre-hatch treatments of up to 1.0 acres using a 30 day residual product in the “Dale Basin” area.



3. Larval Control: The program provides for treatment of 3 backpack pre-hatch treatments of up to 0.5 acres using a 30 day residual product in the “Chestnut Detention Basin” area near Lemont Road and 75th Street.
4. Helicopter Prehatch: Three (3) treatments using a 30 day residual product of up to 15.0 acres for floodwater mosquito control.
5. Larval Control: Stocking of 2,000 mosquito eating fish for biological control.
6. Catch Basins: Back Yard Catch Basins: One (1) treatment of up to 6 known backyard catch basins using Natular™ XRT extended residual slow release insecticide for control of up to 180 days. As new backyard catch basins are identified via citizen feedback and City referrals, treatments will be performed and the locations added to the master list for future residents.
7. Catch Basins: One treatment of up to 2,000 catch basins, inlets and manholes using Natular™ XRT extended residual slow release insecticide for up to 180 day control.
 - a. GPS DataMaster® technology will be used to record treated catch basin locations. Post-treatment application maps depicting the catch basin locations will be provided to the City as part of the monthly operational reports.

Part IV. Adult Control

- A. Adulticiding in mosquito harborage areas:
 1. Upon City authorization, backpack barrier treatments using a synthetic pyrethroid insecticide of festival and concession stand areas for residual control of adult mosquitoes.
- B. Adulticiding in Residential Areas:
 1. Upon City authorization, community-wide truck ULV treatments of up to 89.4 miles of streets using Merus™ a botanical insecticide. Any additional authorized community ULV treatments will be priced at \$8,800.00 per treatment.
- C. Adulticiding Operational Procedures
 1. Notification of community contact.
 2. Weather limit monitoring and compliance.
 3. Notification of residents on Clarke Call Notification List.
 4. ULV particle size evaluation.
 5. Insecticide dosage and quality control analysis.

2020-2022 EarthRight Total Annual Price for Parts I, II, III, IV**

\$41,700.00

****NPDES Permit:** A National Pollutant Discharge Elimination System (NPDES) permit is necessary for the execution of the work for mosquito control effective October 31, 2011. Any additional costs associated with activities and/or services that may be required by Clarke in order to comply with an NPDES permit are not included in this proposal.



Clarke Environmental Mosquito Management, Inc.,
Client Agreement Authorization for
The 2020-2022 City of Darien EarthRight
Environmental Mosquito Management (EMM) Program

I. Program Payment Plan: For Parts I, II, III, and IV as specified in the 2020-2022 Professional Services Price Outline, the total for the 2020-2022 program is \$41,700.00 per year. The payments will be due according to the payment schedule below. Any additional treatments beyond the core program will be invoiced when the treatment is completed. Pricing for the 2021 and 2022 seasons will be held at 2020 rates.

PROGRAM PAYMENT PLAN (2020-2022)

Table with 4 columns: Month, 2020, 2021, 2022. Rows include May 1, June 1, July 1, August 1, and a TOTAL row showing \$41,700.00 for each year.

For City of Darien:

Sign Name: [Signature] Title: City Administrator Date: 1/22/2020

For Clarke Environmental Mosquito Management, Inc.:

Name: [Signature] Title: Key Accounts Manager Date: 12/17/2019
Emily Glasberg



EarthRight™

Clarke Environmental Mosquito Management, Inc.,
Client Authorization for
The 2020-2022 City of Darien EarthRight
Environmental Mosquito Management (EMM) Program

Administrative Information:

Invoices should be sent to:

Name: Lisa Klemm
Address: 1702 Plainfield Road
City: Darien State: IL Zip 60561
Office Phone: 630 353 8104 Fax: 630 852 4709 P.O. # _____
E-mail: lklemm@darienil.gov County: DuPage

****In an effort to be more sustainable, we ask that you provide us with an Email address that the invoices should be sent to.****

Treatment Address (if different from above):

County: DuPage

Address: _____
City: _____ State: _____ Zip _____

Contact Person for City of Darien:

Name: Lisa Klemm Title: Admin Asst to CA
Office Phone: 630 353 8104 Fax: 630 852 4702 E-Mail: lklemm@darienil.gov
Home Phone: _____ Cell: 630 915 8696 Pager: _____

Alternate Contact Person for City of Darien:

Name: Bryan Vana Title: City Administrator
Office Phone: 630 353 8114 Fax: 630 852 4702 E-Mail: bvana@darienil.gov
Home Phone: _____ Cell: 630 514-1251 Pager: _____

Please sign and return a copy of the complete contract for our files to:

Clarke Environmental Mosquito Management, Inc., Attn: Emily Glasberg
675 Sidwell Court, St Charles, IL 60174 or email to eglasberg@clarke.com

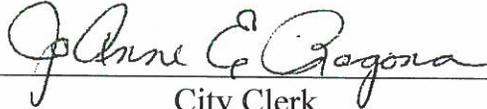
STATE OF ILLINOIS)
) SS
COUNTY OF DU PAGE)

I, JoAnne E. Ragona, do hereby certify that I am the duly qualified CITY CLERK of the CITY OF DARIEN of DuPage County, Illinois, and as such officer I am the keeper of the records and files of the City;

I do further certify that the foregoing constitutes a full, true and correct copy of **RESOLUTION NO. R-05-20 — “A RESOLUTION AUTHORIZING THE CITY ADMINISTRATOR TO ENTER INTO AN AGREEMENT WITH CLARKE MOSQUITO FOR AN ADDITIONAL THREE YEARS ”** of the City of Darien, Du Page County, Illinois, Duly Passed and Approved by the Mayor and City Council at a Meeting Held on January 20, 2020

IN WITNESS WHEREOF, I have hereunto affixed my official hand and seal this 20th day of January, 2020.





City Clerk

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: June 17, 2021

RE: DuPage County Annual Waste and Recycling Report 2020

Each year DuPage County prepares an annual report on waste and recycling. This year 25 communities participated in the survey. The results are highlighted in the attached report.

DuPage County's average recycling rate for 2020 was 32%, which is over the 25% state mandate. Darien's recycling rate was right at the average for the county, 32% (Appendix B, page 18).

DuPage County 2020 Annual Waste and Recycling Report



Prepared by DuPage County Environmental Division

421 N. County Farm Road · Wheaton · Illinois · 60187

Since 1991, all counties of the State of Illinois are mandated to collect and report waste and recycling information to the Illinois Environmental Protection Agency under the Solid Waste Planning and Recycling Act (SWPRA). The Act empowered counties and the City of Chicago with solid waste planning and set recycling goals. This Report provides data collected from DuPage municipalities and townships and attempts to measure recycling more thoroughly within the County by incorporating special event collections into the overall recycling rate.

Contents

INTRODUCTION	4
SOLID WASTE IN 2020: Globally, Nationally, State, and Local Views	4
2020 WASTE AND RECYCLING SURVEY	6
WASTE	6
RECYCLING	7
PHARMACEUTICALS AND SHARPS	10
HOUSEHOLD HAZARDOUS WASTE (HHW)	10
TIRE COLLECTION	11
ELECTRONICS	12
FOOD SCRAP COLLECTION	12
CONTRACT DETAILS	13
SUMMARY	14

INTRODUCTION

The year of 2020 provided significant challenges and changes to the normal waste and recycling process in DuPage County. In mid-March Governor J.B. Pritzker issues a disaster proclamation for the state of Illinois resulting in the closure of bars and restaurants to sit-in diners. The March 15th proclamation also moved all non-essential workers into a stay-at-home order starting on March 21st through the Governor's Executive Order 2020-10. The result of this order created a dynamic flux of waste and recycling moving from businesses to the household.

In 2020 there was a notable shift in the waste and recycling generated from business sectors, moving to the residential sector. General assumptions about the data provided in this report cannot hold true as in prior years. It is likely that there will continue to be spillover of nonconforming data for half, if not all of 2021 as businesses continue to operate a 50% or less capacity and individuals work from home. As a result, this annual report will include an additional section on COVID solid waste impacts before moving into the traditional review and analysis of the annual waste and recycling survey. We would also like take a moment to provide our thanks and gratitude to the front-line workers and essential employees of the waste industry that worked continuously to maintain service throughout 2020.

SOLID WASTE IN 2020: Globally, Nationally, State, and Local Views

Globally

Recycling markets for 2020 were limited with import bans in place to reduce possible transmission of COVID-19. Material that was processed at material recovery facilities (MRFs) was stalled in transit to intended processors. It is estimated that MRFs have seen a decline of 7.3% in revenue for 2020.¹ Combined with continued contamination restrictions and looming Basel Convention export requirements (that are in place as of 1/1/2021), outbound markets remain hindered. Despite the difficulties, these effects were felt on a lesser scale in Illinois. Elsewhere in the United States, especially along coastal areas, significant amounts of recyclable materials were landfilled for a time.²

Nationally

Despite the abrupt and sudden shifts in pandemic- and economy-related challenges to the solid waste industry, there were notable highlights as expressed in the [2020 MRF Summit](#) held by the Institute of Scrap Recycling Industries (ISRI) and Solid Waste Association of North America (SWANA). The value of recyclable material appeared to double from the start to the end of

¹ Recycling Facilities Industry in the US. (2020, October 27) *IBISWorld*. [ibisworld.com/united-states/market-research-reports/recycling-facilities-industry/](https://www.ibisworld.com/united-states/market-research-reports/recycling-facilities-industry/).

² Staub, Colin. Coronavirus pandemic disrupts recycling sector. (2020, March 17) *Resource Recycling*.

2020 along with positive outlooks on post-consumer and end markets for struggling materials impacted by export restrictions.

Fiber (cardboard/paper), which comprises 70-75% of single-stream marketable materials, appears to have future potential marketing capability in the U.S. Roughly 17 new or expanded paper mills will be accepting recycled feed stock creating a greater domestic demand. Plastics are another material of note with a new post-consumer facility announced for Illinois. With growing post-consumer markets in development in the U.S. it is expected that commodity markets will raise, however, when and how much has yet to be determined.³ The uptick in manufacturers processing recycled material is echoed by companies committing to utilize recycled content in packaging.⁴ These developments on the post-processing side of MRFs are expected to find additional support by federal agencies as the U.S. Environmental Protection Agency (EPA) released the [National Recycling Strategy](#) draft in November, 2020. DuPage County submitted comments on the draft strategy and continues to monitor development of U.S. recycling goals and associated items, see appendix A. Policies encouraging recycled-content purchasing were also asked of communities in the 2020 annual waste and recycling survey however, there were no policies reported to be in place in DuPage municipalities.

State-wide

At a state level, Illinois was in the process of developing a report as directed by House Bill 3068. In July 2019 the Statewide [Materials Management Advisory Committee](#) (MMAC) was created. The Committee has worked on drafting recommendations for recycling and solid waste practices. Recommendations pulled in prior work completed by the Illinois Recycling Task Force, which County staff co-chaired in 2020. County staff participated in the various working groups of the MMAC and will continue to do so in 2021. Final draft recommendations are slated to be complete by June 2021. The recommendations will be used to assess and establish priorities for Counties and the State for solid waste planning and management purposes.

Locally

COVID challenged the waste hauling infrastructure and industry significantly at a local level where contracts and coordination for basic waste hauling services are held. Local haulers and solid waste coordinators met on weekly calls during the initial weeks of stay-at-home order to share information and changes in basic hauling services to the public. DuPage County participated-in and hosted several of these calls until most haulers returned to their regular services. Suspended services were common between March and May with many households being asked to hold onto their extra bulk items until the latter half of the year. This was due in part to reduction in the number of employees in a truck when on route for their health and safety. To assist with relaying information, DuPage County created a COVID specific disposal guide and webpage for residents during the first half of 2020 as disposal options fluctuated with closures and limitations.

³ MRF and Recycling Markets Evaluation. (2019, December) SWALCO/SWANCC. Compiled by APTIM.

⁴ Biderman, David. (2020, November 18-19) *Welcome Remarks*. Presentation at the 2020 MRF Summit.

Despite the restrictions in material disposal and hauling, local haulers observed an increase in tonnage from residential homes. This rise was estimated to be between 30-40% from the residential sector⁵. The increase in materials was not only on the landfill side, but also the recycling bin creating additional material at MRFs. The ability to handle the influx of material was hampered by slowdowns of sorting and processing to accommodate the recommended social distancing of solid waste line workers.

2020 WASTE AND RECYCLING SURVEY

WASTE

DuPage County municipalities and townships contract with private haulers to conduct traditional curbside collection of materials such as paper, metals, plastics, landscape materials, and other special collection waste. Within these contracts, many waste companies are directed to track material weights. DuPage County surveys municipalities annually to tabulate contract services and weights. All data provided in this report covers the timeframe from January 1, 2020- December 31, 2020. Table 1 provides a summary of the responses received from the 2020 waste and recycling survey.

Twenty-five communities responded to the 2020 survey representing over 217,387 single family homes. Tonnage was requested for residential recycling, and waste. The quantity of refuse collected from the curb was aggregated and measured at 237,283 tons. The curbside recycling reported totaled 80,577 tons, and landscape waste was reported at 33,449 tons. Total tons of recycled material, landscape waste and curbside recycling, was calculated at 114,026 tons. The total amount of curbside material (waste and total recycling) generated was 351,310 tons. These quantities do not include additional material diversions that are collected at special drop-offs or through other means. Special collection material is addressed in several sections later in the report, however based on the tonnage provided by communities in the survey an additional 298.23 tons were self-reported as collected directly through community efforts.

A breakdown of respondent totals is provided in Appendix B. The recycling rate has been calculated by dividing the total recycled tonnage by the total waste tonnage. The average recycling rate based on the respondents is 32%. Three municipalities exceeded a 40% recycling rate, with the Village of Lisle reporting the highest recycling rate at 46%.

Number of municipalities included	Refuse collected in tons	Recycling collected in tons
25	237,283	80,577

⁵ Gibson, London & Sarah Bowman. Recycling contamination up 40% in Marion county as Hoosiers make more waste at home. (2020, May 28) *Indianapolis Star*.

Table 1: Curbside and Waste Collection in Tons

RECYCLING

Contamination continues to be the focus of the solid waste industry, especially here in Illinois. Since 2001 there has been a steady increase in MRF residue⁶ rates. Figure 1 illustrates the steady increase of residue rates of four prominent MRFs in the area. Resource Management, tracked in orange, takes in material from DuPage communities and has one the highest rates. These residue rates parallel contamination rates over the same time frame. Although single stream recycling has increased the amount of material collected, its closed bin system has led to an alarming increase in contamination at the curb. An annual report from The Recycling Partnership documented; "... a first-of-its-kind national average inbound contamination rate estimate of 17 percent by weight."⁷

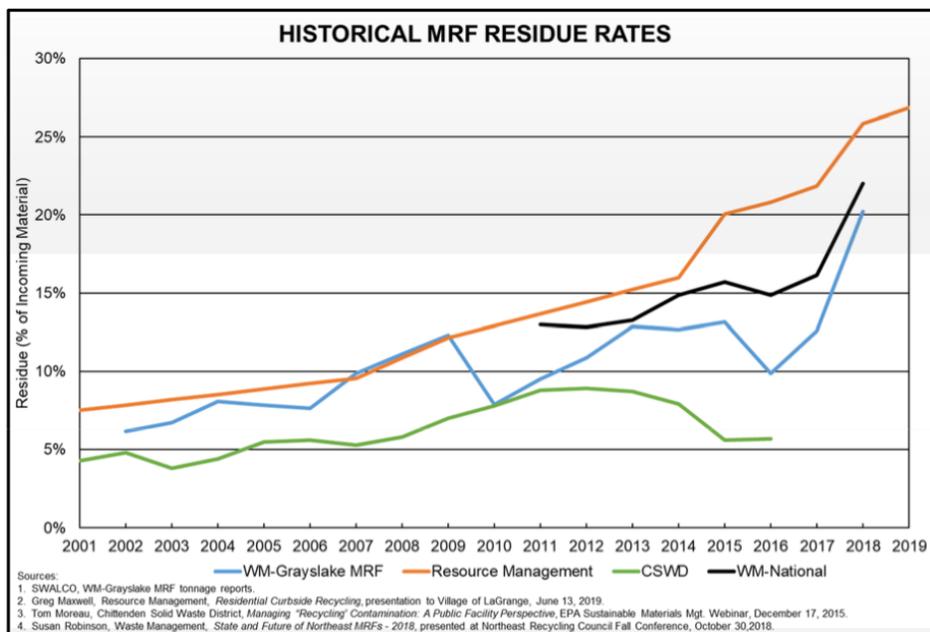


Figure 1: Trend in MRF Residual Rates
 Figure 15 from MRF and Recycling Markets Evaluation. (2019, December) SWALCO/SWANCC. Compiled by APTIM.

DuPage County communities overwhelmingly agree on the difficulty of handling contamination in residential recycling carts and listed it as the top issue for their solid waste programs (see figure 2.) In general, residential recycling in comparison to commercial recycling has a much higher percentage of contamination. This is due to confusion on permitted items in the

⁶ Like other industry terms, “contamination” and “residue” are sometimes used interchangeably, although they refer to somewhat different things. “Contamination” is non-recyclable material that is placed in a single-stream cart. Contamination must be removed to produce a saleable commodity. “Residue” is the mixed stream of materials that comes off the end of the sorting system. Residue will include contamination but may also include recyclable commodities that were not removed during the sorting process.

⁷ 2020 State of Curbside Recycling Report – Executive Summary. (2020, February 13) The Recycling Partnership.

recycling cart and the difficulty in changing engrained behaviors of each individual household and person. Local contamination grew even further during COVID as home delivery from online retailers, such as Amazon, grew in demand during stay-at-home orders. In some areas of the United States, it was estimated that contamination rates during COVID climbed to unprecedented levels of 70%⁸. Some of this contamination can be attributed to the increase in deliveries resulted in an influx of cardboard and flexible plastic packaging. Although the markets for cardboard and fiber climbed nationally, flexible packaging continues to be a ‘drop-off only’ material. When added to curbside recycling bins, flexible packaging increases contamination and provides significant difficulties to MRF equipment.

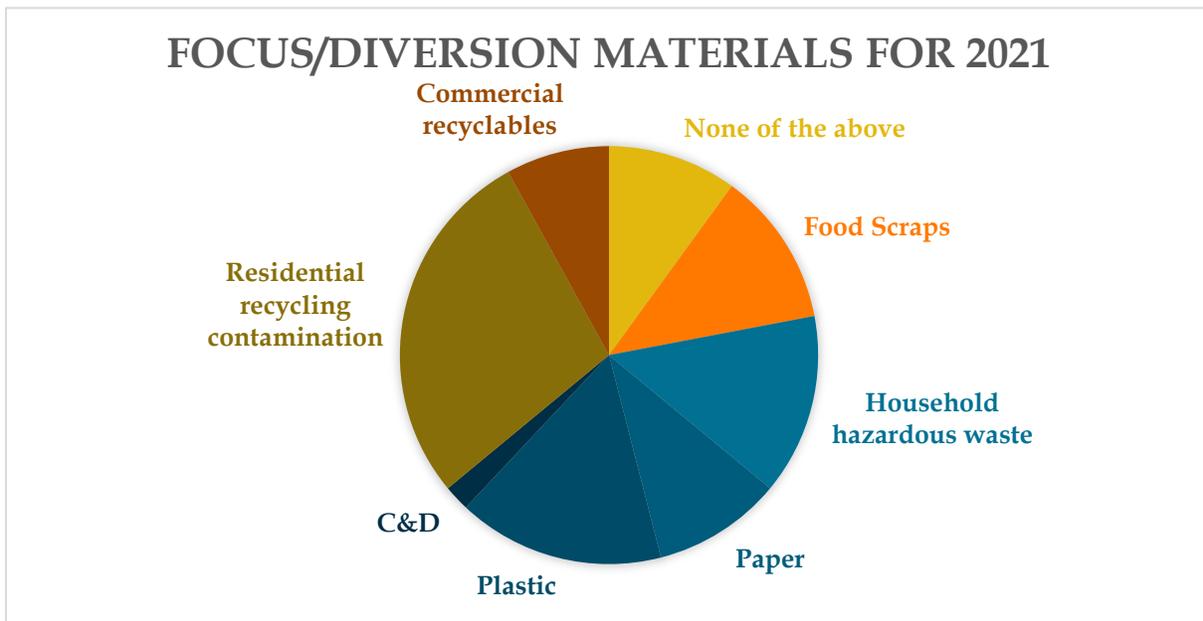


Figure 2: Summary Responses of Question 2 in 2020 Annual Waste and Recycling Survey

Wish-cycling, a desire for something to be recycled resulting in a behavior of placing non-recyclable items in a recycling cart, is a difficult habit to break. Combining concise and consistent messages on acceptable materials with avenues of promoting engagement is critical to modifying public perceptions of wish-cycling. In many contracts there are provisions for education and outreach by haulers to residents, however not all contracts include this language, nor are always enforced. Seventy-eight percent of communities responded that their waste hauler provided educational material to their residents. Fourteen had a dedicated website just for their community. Fliers or a printed list of acceptable items ranked highly as a secondary education tool as well. However, just being aware or seeing the education does not implicitly mean there is follow through.

To help inform residents, DuPage County frequently posts information on recycling habits that encourage behavioral change based on social and cultural norm influence. For example, showcasing images of individuals utilizing local store drop-offs for flexible film wrap creates

⁸ Gibson, London & Sarah Bowman. Recycling contamination up 40% in Marion county as Hoosiers make more waste at home. (2020, May 28) *Indianapolis Star*.

the perception that this is common, and correct, behavior. In addition to the targeted posts, residents and communities were invited to share our recycling bin website, <https://recyclebin.dupageco.org/>. The movement of graphics, like flipping a card, creates a more interactive experience for the user. From January 1, 2020 – December 31, 2020 the site had a total of 2,246 unique pageviews with an average time spent at the site of 1 minute and 19 seconds. Plastics and cartons are noted on the website as not always accepted in local community recycling programs. To help gain a sense of how universally accepted these items are in DuPage County recycling bins, communities are asked to identify what is included in their hauling contract. These differences are illustrated in Figure 3. In comparison to prior years there has been a slight increase in the communities accepting cartons. Plastics of all types have remained consistent in their acceptance over the past five years.

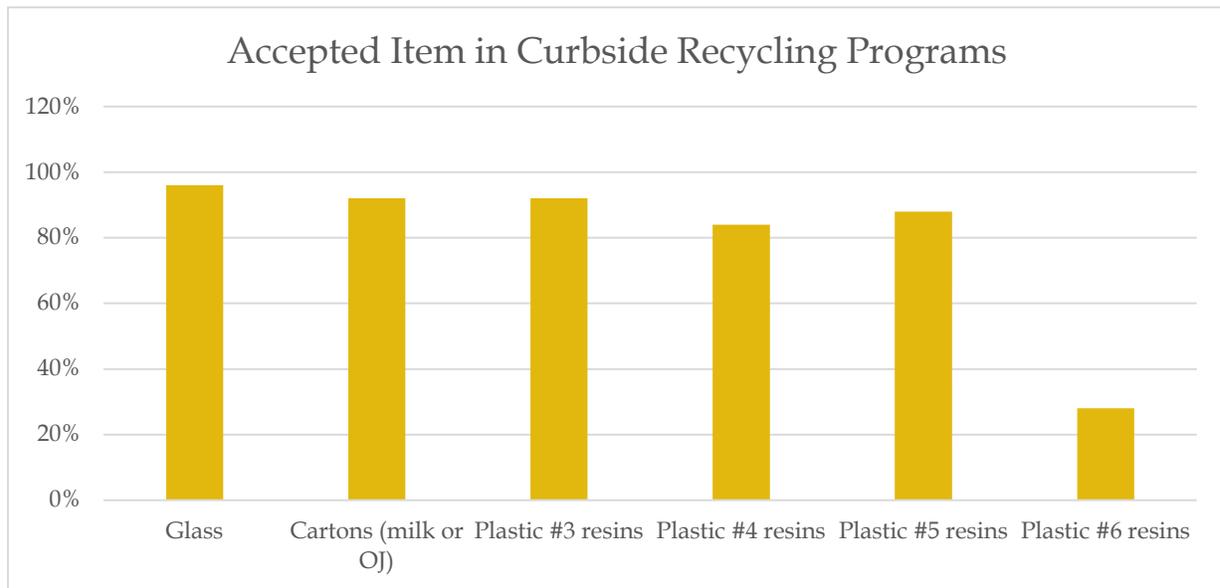


Figure 3: Acceptable material responses

SPECIAL COLLECTIONS

Along with curbside waste and recycling collections, municipalities are supplying other opportunities to dispose or recycle specific commodities. These items can vary and are prevented from being landfilled through dedicated recycling efforts or by necessity of a ban. In most cases the special collections result in pre-sorted high volumes of a single item that is more valuable to a recycler.

Communities across DuPage have adopted one-day recycling events as seasonal collections to help gather these specific items. Eight communities reported that they had provided this opportunity to their residents. One-day events can include document shredding, paint collection, electronics and other miscellaneous goods such as eyeglasses, flags, bikes and propane tanks. The items and amount collected vary by community. The sharp decrease in one-day collection events in 2020 can be directly attributed to COVID.

PHARMACEUTICALS AND SHARPS

In 2020, the HOPE Task Force and DuPage County Health Department continued the Rx Box Program for the collection of unused/expired medicines. The Illinois EPA provides a vendor to pick-up and dispose of the medications which are collected from 18 partner locations. Recently, other drop off opportunities have opened at Edward and Elmhurst Hospitals and multiple Walgreens, CVS and Meijer pharmacy locations. The U.S. Drug Enforcement Agency (DEA) also held a National Drug Take Back Day on October 24th.

The Rx Box program collected 12,093 pounds of medication which is down from the previous year. This reduction can be attributed to COVID-19, but also likely amounts have been impacted by the additional drop off locations.

Improperly disposed medicine's impacts have been found in waterways, groundwater and drinking water.

The source of the medicines is mostly attributed to them being erroneously flushed into the wastewater systems and through human excretion. Pharmaceuticals have also been identified in landfill leachate which is taken to wastewater plants. The U.S. Geological Survey provides a helpful resource on their website [usgs.gov/special-topic/water-science-school](https://www.usgs.gov/special-topic/water-science-school).



Medical sharps are another item in need of special handling within the waste stream. In recent years, collections have been launched in a few locations. DuPage County Sheriff Mendrick launched a medical sharps collection opportunity at one-day collection events and added a sharps collection box to existing RxBox station. In 2019 the program collected more than 428 pounds of sharps. The County continues to maintain a webpage which highlights disposal opportunities including the [safeneedisposal.org](https://www.safeneedisposal.org) website, available drop off locations and mail back programs.

HOUSEHOLD HAZARDOUS WASTE (HHW)

In 2020, the Regional HHW Facility in Naperville continued to collect varying chemical waste from Illinois residents. Despite the temporary closure during the stay-at-home order, 22,662 vehicles dropped off waste to the site. The closure lasted 7 weeks with a spike in participation and waste volumes after the reopening. The City reported that 13,683 of those cars were from DuPage County with the rest from other counties throughout Illinois and more than 66,105 gallons of hazardous materials were collected. Their recordkeeping showed that August, October, and November had the highest participation. To relieve some of the pressure on the reopened HHW facility, the County sponsored one HHW collection event November 14th. The event turnout was significant and resulted in the collection and proper disposal of more than 16,300 gallons of waste and 240 compressed gas cylinders.

In addition to the collection and Regional HHW facilities, hauling contracts have started to include at-your-door collection for residents. Currently two communities offer this service: Lisle and Lombard. For communities in the north and east portions of the County, efforts will continue to be made to apply for one-day events to accommodate these residents.



Providing convenient locations for the disposal of residential hazardous waste remains a goal for the Division but with event costs, utilizing the Illinois EPA's program is still preferred. The Division will continue to encourage municipalities to apply for IEPA events. A summary of the materials collected is found in Appendix C.

TIRE COLLECTION



In the State of Illinois, whole tires may not be landfilled. This is in line with 37 other states who also have a ban in place. The tires can cause compaction issues, impact the landfill cover and become overheated within landfills contributing to subsurface oxidation events.

Under the State of Illinois's Used Tire Management Program, the County was able to provide a host location for the collection and recycling of waste tires collected by local governments. The County sent an invitation to all DuPage local governments. The Division of Transportation provided the location near their maintenance building and oversaw the collection of more than 700 waste tires from 20 entities. The Illinois EPA's contractor shreds and recycles the tires.

The Illinois EPA reports that more than 14 million used tires are generated within the State annually and that discarded tires, when improperly stored, serve as habitats for disease-carrying vectors. Tires are linked to the proliferation of the Asian Tiger Mosquito. It is critical that tires be stored in a manner that keeps them dry and that they are properly recycled in a reasonable amount of time.

The U.S EPA finds that scrap tires have several different end markets; tire-derived fuel, civil engineered applications, ground rubber asphalt, cut, stamped and punched products, reuse/retreading and pyrolysis.

ELECTRONICS

The collection sites were temporarily closed to due to the stay-at-home restrictions however, they were quickly relaunched in April. eWorks, the County’s electronics recycling provider, instituted several contactless precautions with advanced online payment and use of PPE at the collection sites. The County worked with eWorks to offer drop off at their Elk Grove location during the temporary shutdown. Due to its popularity, the site remains open to residents Monday – Friday. Vehicle counts



are not maintained for the quarterly or one-day events, but the two weekday sites were utilized by more than 13,500 cars dropping off electronics. Additionally, the County was able to include metrics for electronics generated from County operations. In 2020, the amount recycled was 4,274 lbs.

The recycling of electronics conserves resources such as oil, gold, palladium, copper, and rare metals. It also conserves the mining, transportation and emissions associated with these industries. Responsible manufacturing and design have also been a priority for sustainability reports. The County has been switching to more energy efficient and small computers for most workstations purchasing equipment that is certified ENERGY STAR and EPEAT.

Partner Location	Total Collected in 2020 (lbs)
<i>Addison Township 3x/year</i>	39,279
<i>Bloomington Township 3x/year</i>	47,369
<i>Burr Ridge Mon - Fri</i>	179,711
<i>Elk Grove (eWorks) Mon - Fri</i>	23,859
<i>Elmhurst 4x/year</i>	51,420
<i>Glendale Heights 1x/year</i>	10,968
<i>Lisle 4x/year</i>	56,220
<i>Naperville Mon - Fri</i>	577,292
<i>Wheaton 1x/month</i>	155,207
TOTAL	1,141,322

FOOD SCRAP COLLECTION

Food scrap collection continues to gain attention and interest in DuPage County and the Chicagoland region. In 2020, DuPage County again participated in the Illinois Food Scrap Coalition (IFSC) a statewide collaborative working to divert food scraps from entering Illinois

landfills. Eight responding communities provided the opportunity for residents to participate in a residential curbside food scrap collection program. In 2021 nine communities are expected to provide the option to residents.

The amount of literature, toolkits, and guides available to help introduce benefits and steps to composting have increased dramatically in 2020. IFSC developed and released a large [collection of one-page documents](#) focused from the individual to commercial operations.

Schools were another focus for food scrap collection and in early 2020 the [Wasted Food Action Alliance](#) developed a [toolkit](#) specifically for identifying ways to reduce food waste in educational settings.

These tools and resources have been incorporated into the Division website and are promoted through social media and email communications to municipalities and other entities.

Community's Offering Food Scrap Collection	Offered in 2020	Offering in 2021
Clarendon Hills	X	X
Elmhurst	X	X
Glen Ellyn	X	X
Lisle	X	X
Lombard	X	X
Naperville	X	
Warrenville		X
West Chicago	X	X
Westmont		X
Wheaton	X	X

CONTRACT DETAILS

Acquisitions continue among haulers with three haulers handling most of the residential waste in DuPage County, Republic Services, Waste Connections through Groot Industries, Inc., and Waste Management. Additional haulers include Flood Brothers, Lakeshore Recycling Systems, Advanced Disposal and Roy Strom.

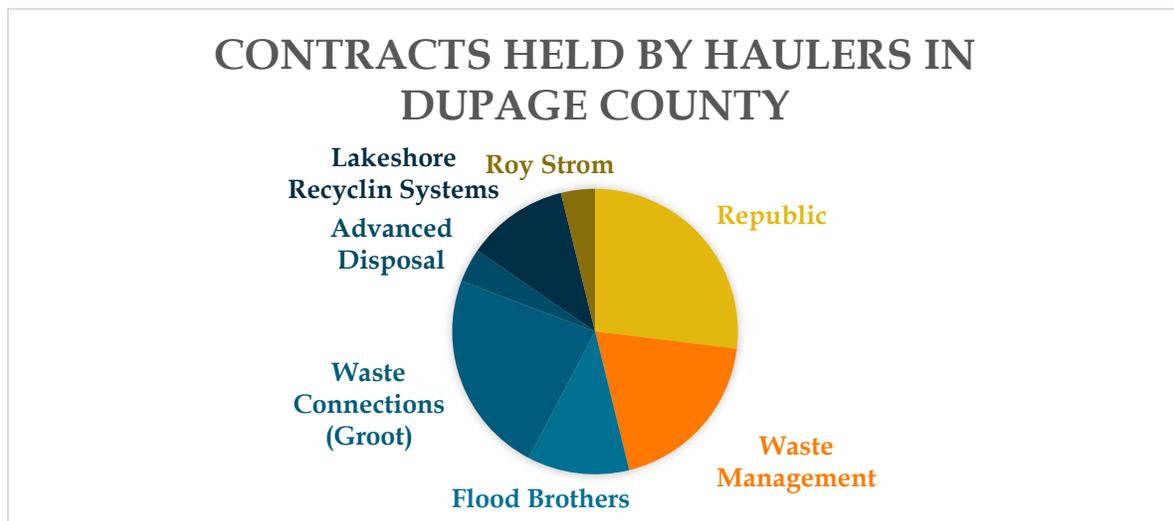


Figure 3: Identified hauler for each community respondent.

As part of this Annual Report, hauling contracts are reviewed for similarities and differences. Contracts between communities and a waste hauler can incorporate several additional options. Variations addressed in the survey included; discounts, service areas, and item pick-up options. One area of growing interest is the extension of municipal contract services to business districts within a community. Seventeen percent of respondents indicated that they offer hauling services to these districts under their current contracts. By offering businesses the opportunity to opt-into a municipal contact, a coordinated route may be used to reduce congestion in these districts. Furthermore, the homogenous materials from businesses are a desired commodity for most haulers.

Other services such as landscape waste collection services and white good pick-up were offered by over eighty percent of contracts. In addition to the survey, DuPage County maintains a spreadsheet of contract details, see Appendix D. Pricing is updated every two years with the last update occurring in 2020.

SUMMARY

DuPage County has again exceeded the State’s mandate of recycling 25% of waste generated and has remained steady year-to-year with an average recycling rate of 33% despite the challenges facing national and international recycling markets in 2020. Reviewing results from prior years the Environmental Division was able to graph the trending lines of waste and recycling volume, see figure 4 and 5. The data for figure four was compiled from the core communities of DuPage County and excluded shared boundary communities such as Lemont and Elk Grove Village.

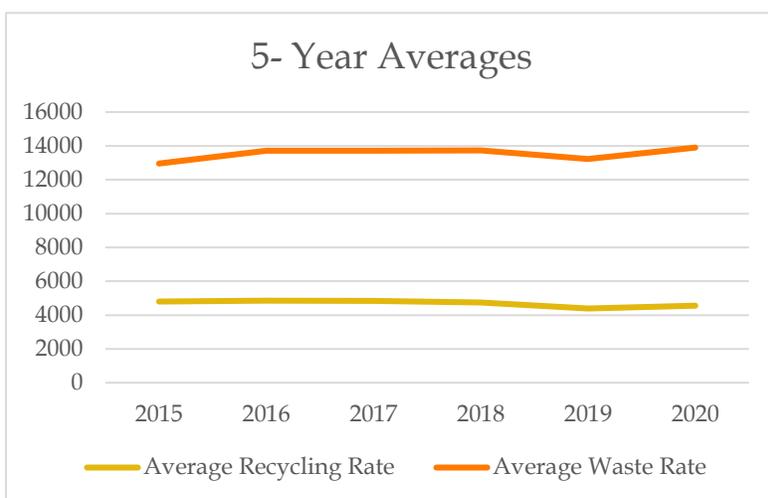


Figure 4: 5 yr complied averages from survey data.

Waste and recycling volumes have remained relatively steady with a slight dip in 2019 and an increase in waste in 2020. The increase likely can be contributed to the stay-at-home orders and increased opportunities to telework which displaced waste generated at a workplace to the home. Contamination is still of importance for education and outreach. Cart tagging has been one method utilized by haulers

and communities to try and reduce unwanted items in the recycling cart. Out of the twenty-five community respondents, only one community, Warrenville, had considered implementing such

a program. As the efficacy on cart tagging programs continues to trend towards reducing recycling cart contamination, Illinois EPA and other solid waste organizations are likely to help push toolkits or additional information forward to respond to the need for cleaner recycling.

Programming for 2021 will implement the concepts of reuse in addition to reduction to further efforts of decreasing commercial and residential waste.

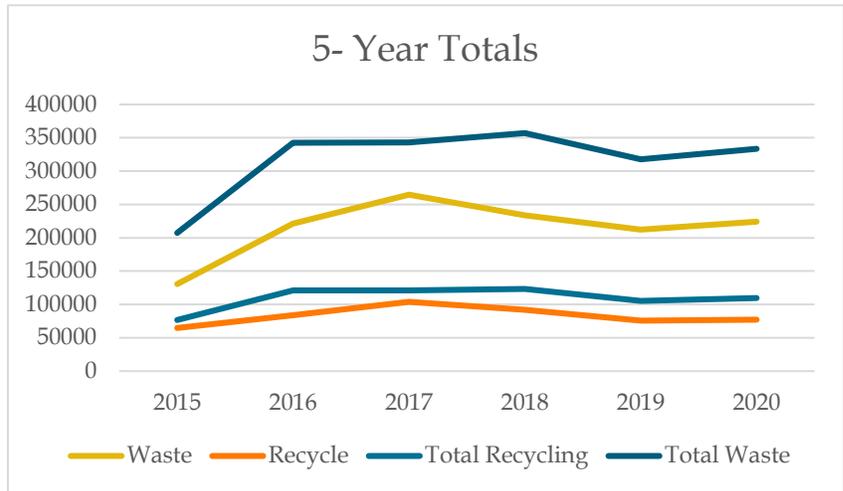


Figure 5: 5 yr complied data from annual surveys.

APPENDIX A

1. *Of the proposed actions, which are the most important and would have the greatest positive impact at the local, regional, and national level?*

Objective 3.0 *Improve Markets* is the most important activity for the EPA to undertake. While education is a key component to recycling, many state and local governments have been working on this for several decades. The EPA's resources should be focused on moving the needle with supporting the development of readily recyclable or reusable packaging and supporting technologies and markets. Local governments do not have the national and global influence to improve this category on the significant scale needed.

2. *What are the key implementation steps and milestones necessary to successfully implement these actions?*

The County commends the EPA for connecting with existing organizations that are working to enhance recycling. The Agency should also connect with other entities such as U.S. Plastic Pact, Product Stewardship Institute, the Container Recycling Institute, CalRecycle, the Recycling Partnership, Recycle Across America and the Steel Recycling Institute, Closed Loop Partner are a few organizations that could provide the most beneficial input.

With the lasting effects of the National Sword, EPA could measure their success by tracking newly developed recycling infrastructure and markets within the U.S. Also, tracking national, state and local policies that support the use of recycled content could be used to measure success. Develop goals to improve recyclables commodity pricing as a milestone demonstrating ongoing demand for recycling.

3. *Is your organization willing to lead an action? Or collaborate with others to implement the actions? What factors would your organization take into account when considering whether to lead an action?*

DuPage County currently participates in the Illinois Recycling Task Force, the Illinois Food Scrap Coalition, SWANA Illinois Chapter, the Illinois Materials Management Advisory Committee, Illinois Green Alliance and the Illinois Product Stewardship Council. While we are poised to collaborate with others and contribute to this national effort, recycling companies, waste hauling companies, manufacturing companies, national and worldwide recycling organizations would be better suited to lead the set forth actions.

4. *What are the most important roles and/or actions for federal agencies to lead?*

The Agency and its partners are well positioned to address packaging's recyclability which would effectively result in reduced contamination. Utilizing the U.S. Government's purchasing power to support recycled content and reuse would further the recycling goal set forth in the Strategy.

5. *Are there other actions that should be included in the Strategy?*

To achieve the purported 50% recycling rate, this Strategy may need to be expanded. The Agency should review and study each state's waste characterization study. In Illinois, wastes such as plastics, paper, construction and demolition debris and textiles were found in notable quantities. Review of this data should include whether these quantities are generated from residential sources, retail, office space and/or manufacturing. The focus of this strategy needs to include the largest waste categories and their generators to be effective. If a state does not have a current study, funding should be provided to complete a comprehensive study.

The Agency should include metrics and make recommendations on single-stream or source separated recycling. Many studies have been convened that emphasize the value of maintaining or returning to source separation however, with limited local, state funding and authority, this solution will likely not be pursued on a nationwide scale.

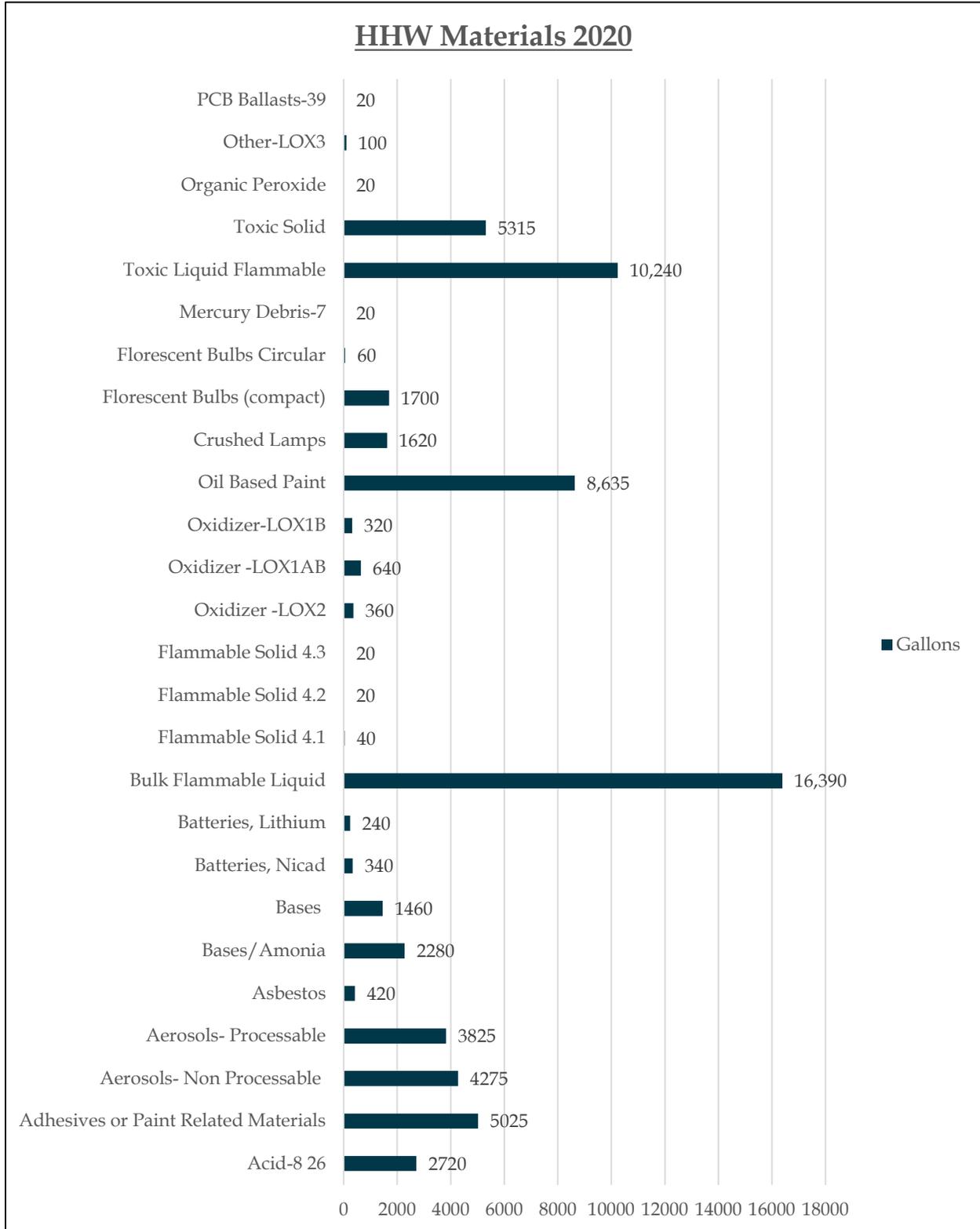
6. *Do you have additional information or recommendations to inform these or other proposed actions?*

The Strategy should promote and develop a methodology for including reuse into its recycling goal and measurement. A national several regional repurpose or waste exchange platforms could support obtaining this data.

APPENDIX B

	<i>Waste</i>	<i>Recycling</i>	<i>Landscape Waste</i>	<i>Total Recycling</i>	<i>Total Waste</i>	<i>Recycling Rate</i>
<i>Addison</i>	11379	2838.74	1685.56	4524.3	15903.3	28%
<i>Bartlett</i>	14,680.06	4,323.40	2467.58	6790.98	21471.04	32%
<i>Bensenville</i>	5920	1264	960	2224	8144	27%
<i>Bloomingtondale</i>	7240.2	1983.5	543.91	2527.41	9767.61	26%
<i>Carol Stream</i>	11137.63	3027.48	1206.16	4233.64	15371.27	28%
<i>Clarendon Hills</i>	2557	1067	498	1565	4122	38%
<i>Darien</i>	5286.24	2483.25		2483.25	7769.49	32%
<i>Downers Grove</i>	12,661	5,805	1,996	7801	20462	38%
<i>Elk Grove Village</i>	13178	3496	1010	4506	17684	25%
<i>Elmhurst</i>	13992	5508	1764	7272	21264	34%
<i>Glen Ellyn</i>	7,665.84	3,602.21	1,676.58	5278.79	12944.63	41%
<i>Glendale Heights</i>	8,703.10	2,213.80	1,157.90	3371.7	12074.8	28%
<i>Hanover Park</i>	12,423.27	2,706.03		2706.03	15129.3	18%
<i>Lisle</i>	4,122	2,189	1,383	3572	7694	46%
<i>Lombard</i>	12783	4196	1933	6129	18912	32%
<i>Naperville</i>	42,881	14,269	9,180	23449	66330	35%
<i>Oakbrook Terrace</i>	1,114.08	389.58	149.5	539.08	1653.16	33%
<i>Roselle</i>	5,654.47	1,848.25	1,032.01	2880.26	8534.73	34%
<i>Warrenville</i>	2881	1202	238	1440	4321	33%
<i>West Chicago</i>	6331.75	2777.71	843.72	3621.43	9953.18	36%
<i>Westmont</i>	5333.17	1778.81	793.72	2572.53	7905.7	33%
<i>Wheaton</i>	12,674.91	6,049.15	1,297.15	7346.3	20021.21	37%
<i>Winfield</i>	2027	975	409	1384	3411	41%
<i>Woodridge</i>	6882.73	3686.5		3686.5	10569.23	35%
<i>Villa Park</i>	7,775	898	1,224	2122	9897	21%
Average	9491	3223	1520	4561	14052	32%
Total	237283	80577	33449	114026	351310	

APPENDIX C



APPENDIX D

Appendix D - Municipality Contract Spreadsheet
DuPage County Solid Waste & Recycling 2020

Community Name	Contractor	Program Type	Contract Expiration	Senior Rate	Landscape Waste	Landscape waste Specifics	White Goods	Bulk Items	Composting	Special Collections	Notes
Addison	Republic	Flat	2023	Y	April - November 30th	30-33 gallon, Sticker No Charge, \$3.45/mo	\$30.00/item	\$25/ yd	Y	\$25/ yd	Composting Prices: 65 gal - \$14.68 95 gal - \$21.60 2 cu-yd dumpster - \$86.40
Aurora	Groot	Hybrid		Y	April - November (1st Fri)	30 gal Kraft yard bag, need sticker \$2.75	\$2.75	\$2.75	N	Y- Price TBD	
Barlett	Groot	Flat	2022	Y	April - November 30th	Yard Waste bag \$3.00/bag	Included	Included	N		E-waste accepted
Batavia	Advanced Waste Disposal	Hybrid	2023	N	April - November	Sticker \$2.95, or rent 65 gal toter \$29.81/mo		\$14.00/unit	Y	\$400/ton	E-Waste accepted/ Organics with Yard Waste
Bensenville	Republic	Flat	2021	Y	April - November 5th	Garbage container 35 gal or Kraft bag- need Yard Waste decal	Included	Included	N	\$20.00/ yd *3	
Bloomingtondale	Republic Services	Flat	2021	Y	April - November 30th	Can 34 gal or Kraft 33 gal bag - \$3.38/sticker	Included	Call for pricing	N		
Bolingbrook	Groot	Flat	2022	N	April - December	33 gal bag Kraft bag - included	Included	Included	N		
Burr Ridge	Groot	Flat	2022	Y	April - December 15th	Included	\$25.00/item	Included	N		
Carol Stream	Flood Brothers	Flat	2024	Y	April-November	Stickers, \$1.20/bag for leaves and \$2.20/bag for yard waste	Included	\$5.20/item	N	\$19.73/Cu Yd (2 yd minimum)	
Clarendon Hills	Republic Services	Flat	2020	Y	April-December	\$2.75/bag or \$17.50/toter rental/m	Included	Included	N	\$35.00/Cu Yd (2 yd Minimum)	
Darien	Advanced Waste Disposal	Hybrid	2022	N	April-December 15th	33 gal bag or container - \$3.70/bag	\$7.20/item	\$3.60/item	N	\$10.30/Cu Yd	5 stickers/TV
Downers Grove	Allied Waste/Republic	Hybrid	2023	N	April-December	Stickers \$3.95/bag OR Purchase Cart for the season	\$3.85/50 lbs	\$3.85/50 lbs.	Y	\$20.00/ yd *3	Composting: 35g - \$17.34; 65g - \$19.73; 95g - \$25.82
Elk Grove Village	Waste Management	Flat	2021	N	April - December 15th	Kraft Bags, max 30 gal - Sticker \$2.50	\$40.00/item	Included	N		
Elmhurst	Republic	Hybrid	2023	N	April - November 30th	Kraft Bag - Sticker \$3.50/bag	\$7/item	\$3.50/item	Y		Compost: \$17.50/mo
Glendale Heights	Allied Waste/Republic	Flat		N	April - November	Included	Included	Included	N		
Glen Ellyn	Groot, Inc	Hybrid		Y	April - November 30th	Yard Waste \$2.66/bag and leaf \$1.60/bag	\$2.50/item	\$2.50/item	Y		Composting Prices: 35 gal - \$11.19; 65 gal- \$13.02; 95 gal- \$16.20
Hanover Park	Groot, Inc	Flat	2020	Y	April - November 30th	Stickers \$2.85, waste cart \$27.13	\$25.00/item	\$25.00/Cu Yd	N	\$25.00/Cu Yd	
Hinsdale	Republic Services	Hybrid	2023	Y	April - November	30 gal Kraft bag or 34 gal container - \$3.25	\$6.70/item	\$6.70/item	Y		Composting Prices: 65 gal - \$144/season; 95 gal - \$186/season
Itasca*	Republic Services	Flat	2022	N	April - November	Included	Included	Included	N		Recycling \$4.04/mo, refuse \$16.09/mo
Lemont	Waste Management	Flat	2022	Y	April-November 30th	May rent 96 gal cart \$4.00/mo	Included	Included	N	Subject to fee	HHW Door Collection
Lisle	Lakeshore Recycling Systems	Hybrid	2023	N	Mid-March-November	Stickers \$3.00/bag	10 stickers/item	5 stickers/item	Y		Composting 65g - \$125/season; 95g - \$150/season
Lombard	Waste Management	Hybrid	2021	N	April - November	Stickers \$2.37/bag	\$25.00/pick-up	\$20/pick-up	Y	\$10.00/Cu Yd	Composting - \$120.96/yr
Naperville*	Groot, Inc	Flat	2029	N	March- December	Stickers \$2.25/bag / free weekly pickup Nov. 1- second wk of Dec.	Included	Included	Y		Composting - 64g - \$109.89; 96g - \$128.21
Oakbrook	Flood Brothers	Flat	2024	N	April - November	Stickers \$2.25/bag	Included	Included	N		
Oakbrook Terrace*	Flood Brothers	No Charge	2022	N/A	Designated Dates	Included	Included	Included	N	\$25/up to 3 cu yd	No Cost, but any additional container need \$2.00 refuse sticker
Roselle	Flood brothers	Flat	2024	N	April - November	Sticker \$2.35/bag, \$195.75/cart	Included	Included	N	\$20.00/ Cu Yd	

Community Name	Contractor	Program Type	Contract Expiration	Senior Rate	Landscape Waste	Landscape waste Specifics	White Goods	Bulk Items	Composting	Special Collections	Notes
Villa Park	Roy Strom Company	Flat	2020	N	April - November	Bag or container - Sticker \$2.70	\$56.00	Included	N	\$30.00/ cu yd	
Warrenville	Waste Management	Flat	2021	N	April - November 30th	Sticker \$5.04 or \$26.61 container	\$35.00	\$25.00/Cu Yd	N	\$20.00/Cu Yd	
West Chicago	Groot	Hybrid	2020	Y	April - November	Sticker \$2.30	10 stickers/item	1 sticker/item	N		
Westmont	Waste Management	Flat	2024	Y	April-November 30th	\$3.30	Call WM	Call for pricing	N		
Wheaton	Lakeshore Recycling Systems	Other	2021	N	April - December	\$2.81	10 stickers/item	5 stickers/item	Y		E-waste available; composting with yard waste
Willowbrook	Republic Services	Hybrid	2020	Y	April - December	\$3.00	\$30.00/item	Included	N	\$21.00/Cu yd	
Winfield	Waste Management	Other	2020	Y	April - November	\$3.65/ sticker (\$3.28 for seniors) or unlimited depending on program	\$3.65	\$ 3.65	N		
Wood Dale	Flood Brothers	Flat	2022	N	April - November	\$4.15/mo	Included	Included	N		
Woodridge	Groot	Hybrid	2023	N	April - December 15th	\$3.60	\$35.00/item	3 stickers/item	N		