

## Memorandum

To: Middletown Sustainability Committee

From: Cindy Unangst, Staff Planner

Date: September 11, 2023

RE: September Sustainability Committee meeting - Tuesday, September 19<sup>th</sup> in person and via Lifesize

**Time: September 19, 2023, 05:00 PM Eastern Time**

### Meeting link

<https://call.lifesizecloud.com/12429552>

### Passcode

21769

### Phone

United States:+1 (312) 584-2401

### Meeting discussion items:

1. August meeting minutes approval
2. Green Lecture series with library – Karen Cannon with Mobilize Frederick and Barb Trader spoke about climate change preparedness in August to a good-sized audience; October talk is scheduled for Saturday the 28<sup>th</sup> at 10:30am with Karen Whitehair talking about monarch butterflies; there will be no talks scheduled for November and December due to the move to the new library; shout-out to Gene for getting the Green Talks videos on our YouTube channel and to Jonathan for helping get the videos off iPads and ready for Gene!
3. Little Seed Library –has anyone been attending the presentations lately? Next up: Planning a Native Plant Garden on Saturday, September 23<sup>rd</sup> at 10:30am.
4. Outreach sub-committee report – the committee met to prepare for the Heritage Festival and Pam or Kristin will give their report.
5. Heritage Festival – looking for volunteers to help man the booth!
6. Pollinator demonstration gardens – Memorial Park garden – proposed list of plants to install this fall in space currently filled up with Rattlesnake Master seedlings; Village of Foxfield eyebrow and circle planting – being watered three times a week; need to figure out a care schedule; Cindy plans to spend an hour or so there on Friday, Sept. 15<sup>th</sup> to do some weeding.
7. Compost project – two more compost bins available for purchase at municipal center – the other two will be used for raffles at Heritage Festival and next year’s Green Expo; we are advertising the Fred. Co. Dept. of Energy & Environment’s fall compost bin and rain barrel program;
8. Tree plantings – tree planting maintenance/inventory schedule (see below); letter of support sent for SilvoCulture grant request;
9. Tree trails – Jim Roessler is working on text for Cone Branch tree trail. New trees to add to Wiles Branch tree trail – white ash and black willow.

10. Tree City USA Growth Award potential projects– Cindy will start recruiting help to work on Growth Award projects.
11. Gift Tree Program – gift tree application came in for a redbud to be planted this fall; QR code decals have arrived and been placed on brochure holders; Ryan cut the plexiglass to place the other decals and Mark will get them placed.
12. Recycling event – fall event will be held on Saturday, October 21<sup>st</sup> with a time frame for the event of 9am - Noon;
13. Trex plastic bag collection – we can still take plastic bags to MES
14. Battery recycling at the Municipal building – we received the boxes and the response has been overwhelming; first box was filled up within two weeks at 19 pounds and the second filled up within a week later at 11.9 pounds; we need to recruit students to help with the battery collection boxes and promotion.
15. Weed control on Town streets and storm drains
16. Wildlife Habitat Advisors program – Karen is interested in being involved in this program.
17. Frederick County Sustainability Commission meeting – discussion about a municipal green team forum
18. October meeting date – third Tuesday – October 17<sup>th</sup>

**GOALS FOR 2023:**

PLANT <b>100</b> TREES IN 2023 – 135 planted in April ✓									
GIFT TREE PROGRAM - GOAL OF <b>\$1000</b> – \$358 paid in April									
QUANTIFY/SHOW PROGRESS ON <b>25% CANOPY BY 2025</b>									
HOLD GREEN EXPO - ✓									
SUPPORT MES & MMS LOOL PROGRAM - VOLUNTEER SUPPORT -									
PROMOTE & SELL 20 COMPOSTING BINS – <b>8 sold</b>									
PROMOTE & SELL 25 RAIN BARRELS (GRANT REQUEST)?									
EVALUATE & RECOMMEND STREETLIGHT BUYBACK PROGRAM TO TOWN BOARD									
CREATE <b>2 AC</b> POLLINATOR MEADOW NEAR SOLAR ARRAY									
EDUCATION ON STORMWATER PERMIT PROGRAMS									

**FUTURE AGENDA ITEMS:**

- Habitat advisor volunteers
- Dark Sky policy

**TREE PLANTING MAINTENANCE SCHEDULE**

- September 22 (Friday) 9-10:30am – inventory of Middletown Parkway trees**
- September 29 (Friday) 9-10:30am - inventory of North Pointe subdivision trees**
- October 3 (Tuesday) 9-10:30am - inventory of Wiles Branch Park trees and install tree tubes**
- October 6 (Friday) 9-10:30am – inventory of Cone Branch Pocket Park trees**
- October 10 (Tuesday) 9-10:30am - inventory of trees off Layla Drive**
- October 17 (Tuesday) 9-10:30am – check on tree-of-heaven along Foxfield walking trail**

# Mobilize Frederick

EQUITABLE SUSTAINABLE SOLUTIONS

## Climate Summit

**SAVE THE DATE** for our next Climate Summit: February 2nd and 3rd, 2024. We'll have great speakers, lots of information to share, and some breakout sessions where you can learn more about what YOU can do to help with climate change efforts and reduce the impacts on your family and community.

Mobilize Frederick's Inaugural Annual Climate Summit, co-sponsored by Hood College, was held on May 6th, 2023 and was a great success with over 220 attendees, 14 speakers, and an exhibit hall with 30 community organizations and vendors. You can find more information about the summit on our website.



MASON CAVALLER, HOOD COLLEGE

## Want to get involved?

There are lots of ways to get involved with Mobilize Frederick:

- Join a Committee with Mobilize Frederick Board members and volunteers
  - **Programs** — including Community Outreach and Communication and planning the climate summit
  - **Fundraising** — planning and executing fundraising campaigns, researching grant opportunities, planning fundraising events
  - **Government Affairs and policy** — learn about effective advocacy strategies and help up make progress on legislative priorities
  - **Volunteer coordination** — help us get the word out to more volunteers and match volunteers with committees
- Become a member of our Technical Advisory Council
- Sign up for our newsletter
- Help share information about Climate Change and available resources with your community
- Donate!



**To learn more**, contact Karen Cannon, Executive Director at [info@mobilizefrederick.org](mailto:info@mobilizefrederick.org). All contributions are tax deductible. Mobilize Frederick is a nonprofit, non-partisan, 501(c)(3) organization and Federated Charities is the fiscal sponsor for Mobilize Frederick, Inc.

[mobilizefrederick.org](http://mobilizefrederick.org)

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# Mobilize Frederick

EQUITABLE SUSTAINABLE SOLUTIONS

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## Our Mission

**Mobilize Frederick** seeks to advance economic vitality, equity, and human health by promoting innovative and effective local solutions to the growing climate emergency.

We've all seen that severe weather is increasing across the country, leading to natural disasters costing billions of dollars. Climate change is a global phenomenon, but its effects hit locally. **Frederick needs to act locally now – and this is where Mobilize Frederick comes in!**



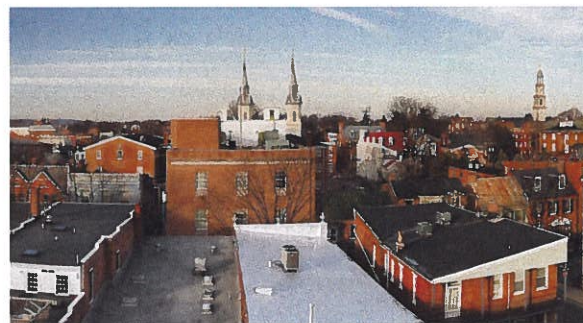
## Our Vision

We partner with local government, nonprofits, schools, and community groups to achieve the goals in the Climate Emergency Resolution, which are to:

- Implement policy and legislation through the lens of climate change.
- Reduce greenhouse gas emissions 50% from 2005 levels by 2030 and 100% by 2050.
- Find and implement ways to remove carbon from the atmosphere.
- Work with the community to improve resilience to climate change impacts.

## What we do

- Collaborate with groups working to educate the community to adopt solutions
- Host an annual summit to track progress on Climate Change measures and share information about available resources
- Provide resources for the community through our website, roadshow presentations, and participating in community events
- Maintain an Advisory Council of experts in related fields to review and advise on solutions
- Function as the communications and coordination hub
- Share information on state and national legislation that affects Frederick County



Reach out to us at  
[mobilizefrederick.org](http://mobilizefrederick.org)

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## 2023 Gardening Series

Saturday, March 25, 10:30 a.m.  
Seed Library Kick-off!  
Seed Saving & Starting Seeds  
Indoors

Thursday, April 6, 6 p.m.  
Introduction to Permaculture and  
the REED Center

Saturday, April 29, 2:00 p.m.  
Preparing for a Successful  
Gardening Season

Saturday, June 3, 10:30 a.m.  
Composting  
\*\*at Fox Haven Farm

Monday, June 12, 10 a.m.  
Forest Walk & Foraged Tea  
\*\*at the REED Center

Saturday, June 24, 2 p.m.  
The Perfect Tomato

Saturday, July 22, 2 p.m.  
Natural Ways to Deal with Pests,  
Fungus, & Disease

Saturday, August 5, 10:30 a.m.  
Seed Harvesting and Saving

Saturday, August 26, 10:30 a.m.  
Canning, Preserving, & Fermenting

Saturday, September 23, 10:30 a.m.  
Planning a Native Plant Garden

Saturday, October 28, 10:30 a.m.  
Milkweed & Monarch Butterflies

## Thank you to our partners:

Middletown Green Team

UMD Extension Service

Master Gardeners

Master Naturalists

The REED Center  
& Morning View Food Forest

Fox Haven Farm



Contact us at:

Middletown Branch Library

101 Prospect Street

Middletown, MD

301-600-7560



FREDERICK  
COUNTY  
PUBLIC  
LIBRARIES

**Seed Library**  
Borrow • Grow • Share  
Middletown Branch Library



*Come grow  
with us!*

## Outreach Subcommittee Minutes 9/5/2023

### Check-in on Heritage Day Preparations

Members present: PM, GF, KW, AP, KK (regrets from AD)

#### Mosquito Information

- flyer complete (Gene to send final copy to Cindy for lamination)
- 2 demos of mosquito traps (Gene)

#### Signage for Booth

- Two signs: a) Sustainable Home b) Sustainable Yard and smaller tented signs for each activity (Pam)
- Sustainable Home items for display or giveaway
  - laundry sheets – single sheet in bag with directions (Ann)
  - soap nuts for display (Kristin)
  - battery recycling boxes [Kristin to ask Cindy]
- Sustainable Yard items for display or giveaway
  - Milkweed seeds (Pam) KK to ask Cindy about envelopes—need at least a 100
  - mosquito traps (Gene)
  - compost bin (ask Cindy)
- Gene will make QR code for separate page on webpage for sustainable yard/home. He will print 3 copies of QR code to display around the 2 tables.
- Pam got info on vertical banners – 7.5' on poles – team wondered if horizontal banner might be better
  - Exploring horizontal banner instead. Green letters on white background: “Middletown Sustainability Committee.”  
No more than 1' high and about 8' wide. Grommets and bungy cords. (Gene looking into horizontal banner)

#### Activities at the Booth

- Milkweed seed shake-in-bag (Pam)

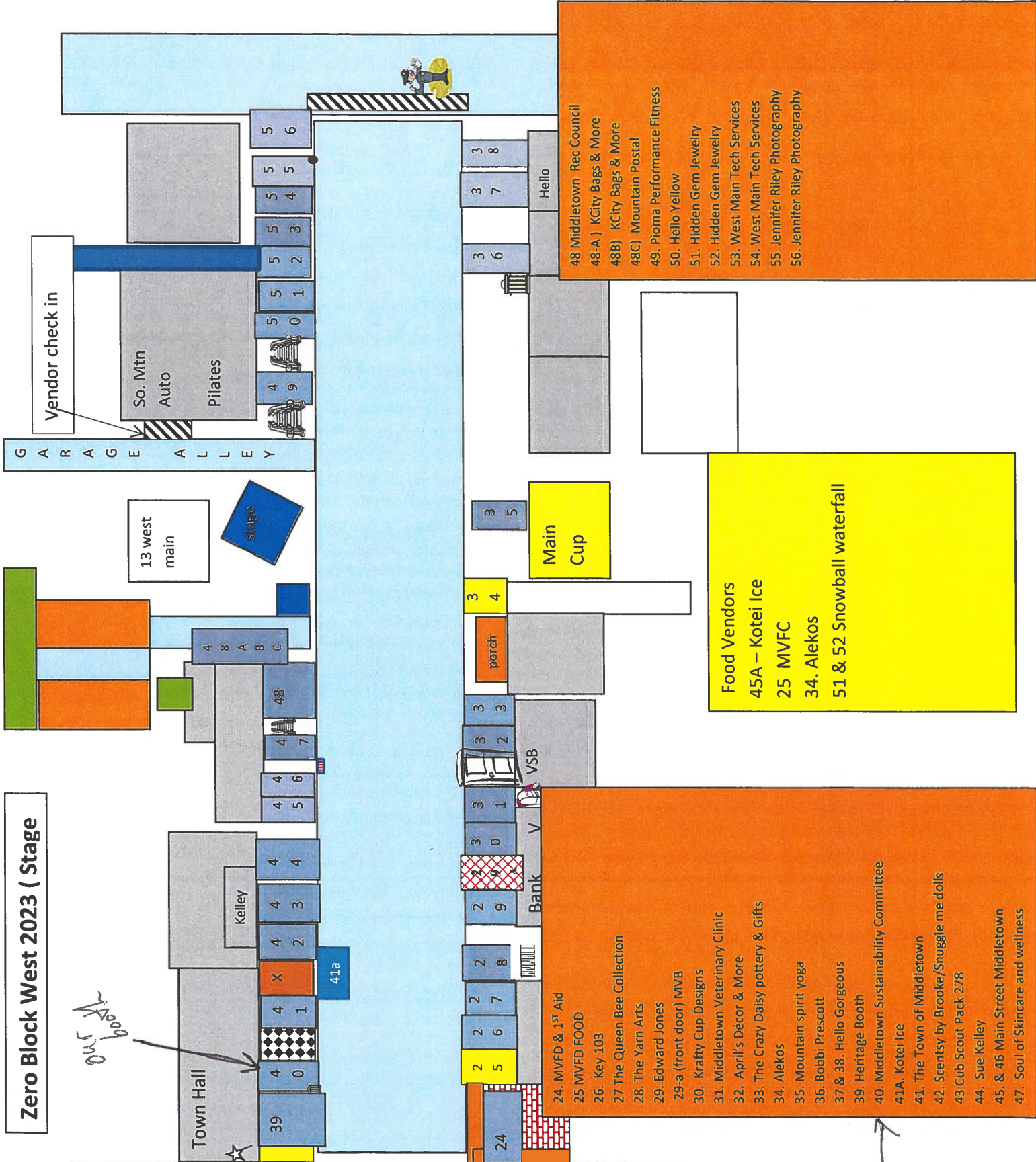
- Pollinator plan for beginners & sample yard sign from Tallamy's homegrown national park (plans are on the [greenmiddletown.com](http://greenmiddletown.com) website. Need to print one set in color, put in plastic sleeves, and then in a binder for people to look at. (Pam to organize this, with Cindy for the printing)
- Raffle for a compost bin? (ask Cindy)

Questions sent to Cindy 9/6/2023

1. Do you have the small envelopes for packaging milkweed seeds as a giveaway?
2. How wide is the front of our booth? (we need to get a right sized banner to run along the top)
3. Will a compost bin be raffled off?
4. Can we get some Tallamy Homegrown National Park signs for display?
5. Do we have info sheets we can distribute for how to plant a pollinator garden (for beginners)?
6. Do you have copies of one-page Sustainability Team Annual Report that we can display at the booth?
7. Can you add the Sustainability Committee to the Heritage Festival website?

# Zero Block West 2023 ( Stage )

J E F F E R S O N S T



## Cindy Unangst

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**From:** rjkna@aol.com  
**Sent:** Friday, September 8, 2023 5:04 PM  
**To:** lhwgouker@gmail.com; kingjohnjr@msn.com; Dgurrie@manningmeadiainc.com; thequeenbeecollection1@gmail.com; kirstenroy@gmail.com; Shawn.nisson@edwardjones.com; msouth@mrvbank.com; snsrstanley@yahoo.com; Middletownvetclinc@gmail.com; aprildesigns19@yahoo.com; denisefrank44@gmail.com; Joannakt@gmail.com; carla@mountainspirityoga.com; bobbiprescott@gmail.com; hgorgeous4707@gmail.com; Cindy Unangst; Annette Alberghini; KoteiKidsshavedice@gmail.com; BROOKERENNER@COMCAST.NET; cwcoda@gmail.com; denise-perkins@outlook.com; Becky Axilbund; ceyley1@msn.com; pam.dietrick@gmail.com; kcitybags@aol.com; mountainpostal@comcast.net; leighanderson011@gmail.com; helloyellowcustoms@gmail.com; Jennifer@JenniferRileyPhotography.com; dcdrafting@verizon.net; westmain@westmaintech.com  
**Subject:** Middletown Heritage Festival - Vendor info  
**Attachments:** Zero Block West 2023.docx; Zero West 23 Jpeg.jpg

PLEASE CONFIRM THAT YOU RECEIVED THIS EMAIL  
And indicate space number Or vendor name

The Middletown Heritage Festival Committee welcomes you to our  
39th annual event!  
Saturday September 23rd, 2023  
We appreciate your participation and enthusiasm.

**Your Vendor space is in - Zero West Block**  
**Please see attached map for placement number**

In order for a smooth event a few details are highlighted below to assist you.

- Check in begins at **7:00 am** on Garage Dr. (accessible from Green Street)  
**\*\* Food Vendors begin at 6:00 AM \***
- You must check-in before proceeding to your assigned space.
- To ensure safety for all, vehicles need to be off the street by 9:00 am, as our parade begins at 10am
- Upon check- in you will receive a parking permit specifying location of parking area.
- Please remember this is a rain or shine event.

Upon arrival you will receive a detailed map which will indicate where your vendor space and parking area is located.

The Middletown Heritage Festival begins at 10:00 am and ends at 5:00 pm, please plan accordingly. **We expect that you remain setup and open for business throughout the duration of the event.** NO vehicles will be permitted in the festival area prior to 5:15 pm. – Anyone violating this will NOT be considered for next year's festival.

If you have any questions please contact:

Jennifer Ross - [rijkna@aol.com](mailto:rijkna@aol.com)

**PLEASE CONFIRM THAT YOU RECEIVED THIS EMAIL**

## Directions to Middletown

### **From I-70 West:**

Take Exit 49 for US-40 Alt toward Braddock Heights/Middletown

Turn left at Old National Pike/US-40

Approximately 4 miles take a right on Cone Branch Dr.

Take 1<sup>st</sup> left on Green St.

Stay on Green St. (you'll go thru several stop signs)

Cross over RT 17

Take 1st left on Garage Dr.

The Vendor Check in Booth is on Garage Dr.

### **From I -70 East:**

Take exit 42, Rt. 17 toward Middletown (take a right off exit)

Stay on Rt. 17 approximately 5 miles.

Turn right on Green St (just after cemetery)

Take 1st left on Garage Dr.

The Vendor Check in Booth is on Garage Dr.

# 2023 HERITAGE FESTIVAL GREEN TEAM TABLE SIGN-UP

Saturday, September 23rd

Time		Number of Volunteers Needed	Names
8:00am - 9:00am	Set-up	3	Cindy Unangst _____ _____
	Set-up table/chairs and arrange hand-outs		
12:00pm-2:00pm	Man table	2	_____ _____
	Man the table after the parade		
2:00pm-4:00pm	Man table	2	_____ _____
	Man the table		
4:00pm-5:30pm	Man table/clean-up	3	_____ _____ _____
	Put table/chairs and hand-outs away		

# TOWN OF MIDDLETOWN 2023 SUSTAINABILITY ANNUAL REPORT



Balancing the economic, social, and ecological needs of the Town's residents and businesses for today and future generations.

## RECYCLING EVENT



During the Spring 2023 recycling event held in the municipal parking lot, close to 500 gallons of paint was collected, and more than 36 pounds of lithium-ion batteries were collected, along with huge quantities of textiles, metals and electronics.

## GREEN EXPO



Join us for our 8th annual Green Expo in April 2024!

## GREEN LECTURE SERIES

Look for more Green Lecture Series events in 2024 at our new library on East Green Street!

## WASTEWATER



The wastewater from the East Wastewater Treatment Plant is used to irrigate the nearby Richland Golf Course after it is treated. This reuse supports Maryland's "Zero Waste MD" initiative, which seeks to reduce, reuse and recycle all waste generated in MD by 2040.

## POLLINATOR GARDEN



A pollinator garden with more than 800 native plants was installed at Memorial Park in 2021 which includes milkweed, goldenrod, black-eyed Susan's, rattlesnake master, asters and allium. It is hoped that the pollinator garden will inspire those who visit to implement pollinator-friendly practices on their properties.



## COMPOST BINS



In 2019, close to 30 compost bins were distributed to town residents. 20 are available now for purchase! The bins help keep vermin out and heat the heap. It is estimated that hundreds of pounds of compost has been kept out of landfill.

## COMMUNITY COMPOSTING

In March 2022, the Town installed a community compost bin at Memorial Park for residents and park visitors to use. In 2022, more than 5,000 pounds of compost were collected!

## BEE CITY USA



The Town became a Bee City USA community in 2020 and joined many other cities and campuses across the country united in improving their landscapes for pollinators.

## EV CHARGING STATIONS



A Level 2 charging station was installed in 2020 in the Elm Street parking lot, and an additional Level 2 charging station will be installed in the Municipal Center parking lot off of West Green Street within the next few months.

## 44,200 BAGS

Since 1991, Middletown has provided paper yard waste bags to its residents free of charge. Last calendar year close to 44,200 bags were picked up by town residents!



## STREETS & PARKING LOTS



Broad Street and Washington Street both received a sustainable upgrade, with new sidewalk, curb, gutter and stormwater management. Next up will be Linden Boulevard in 2024.

## TREE PLANTING



The Town received Tree City USA designation in 2020. In 2022, more than 300 trees were planted with help through grants from the Maryland Urban and Community Forest Committee, as well as Potomac Edison.

More information is available on the Middletown Green Team page of the town's website.



# MONTHLY SUSTAINABILITY REPORT

**START DATE:** 8-01-2023

**END DATE:** 8-31-2023

Town of Middletown  
313 S. Church St  
Middletown, MD 21769



## OFFSET EQUIVALENTS:



**C02**  
EMISSIONS  
FROM

**53**

GALLONS  
OF GAS  
CONSUMED



GREENHOUSE  
**GAS**  
FROM

**1,205**

MILES  
DRIVEN  
BY AN AVERAGE  
PASSENGER VEHICLE



**CARBON**  
SEQUESTERED  
BY

**8**

TREE  
SEEDLINGS  
GROWN FOR  
10 YEARS



**C02**  
EMISSIONS  
FROM

**57,172**

SMART  
PHONES  
CHARGED

## COLLECTION WEIGHTS:

Total Weight: 1,301 lbs (0.7 Ton)

**4539 METROPOLITAN COURT  
FREDERICK, MD 21704**

**240-608-0283  
INFO@KEYCOMPOST.COM**

*On Sale for a Limited Time!*

# **RAIN BARRELS & COMPOST BINS!**

You can help  
Frederick County  
conserve resources  
and reduce waste:

Purchase online by:

**September 27**

**[www.enviroworld.us/frederickcountymd](http://www.enviroworld.us/frederickcountymd)**



# MIDDLETOWN'S SUSTAINABILITY COMMITTEE

## PROMOTES A DAY OF RECYCLING

### SATURDAY, OCTOBER, 21<sup>st</sup>

#### Also, Bulk Trash Pick-up Day

RECYCLE  PAINT, TEXTILES, ELECTRONICS, METALS & LITHIUM BATTERIES

ONE WAY 

From 9 - Noon

ONE WAY 

Enter Jefferson St from West Main St next to Town Hall

RECYCLE YOUR LITHIUM BATTERIES



HELPS

#ClothesArentTrash

TEXTILES



WHAT IS ACCEPTED  
Anything you can wear, sleep in, or dry yourself off with!  
Any type of natural or synthetic fibers donated in any condition (torn, worn, stained, missing buttons, broken zippers, etc.) as long as they are clean, dry, and odorless



ELECTRONICS



All computer hard drives are wiped to DoD standards or destroyed, and proof of destruction is offered as well as a tax deduction.

NO TUBE TV's



TOWN OF MIDDLETOWN

SUSTAINABLE MARYLAND

• CERTIFIED •

PAINT

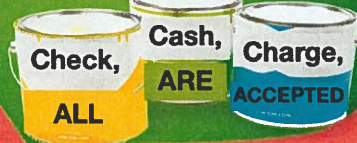
YUCK OLD PAINT

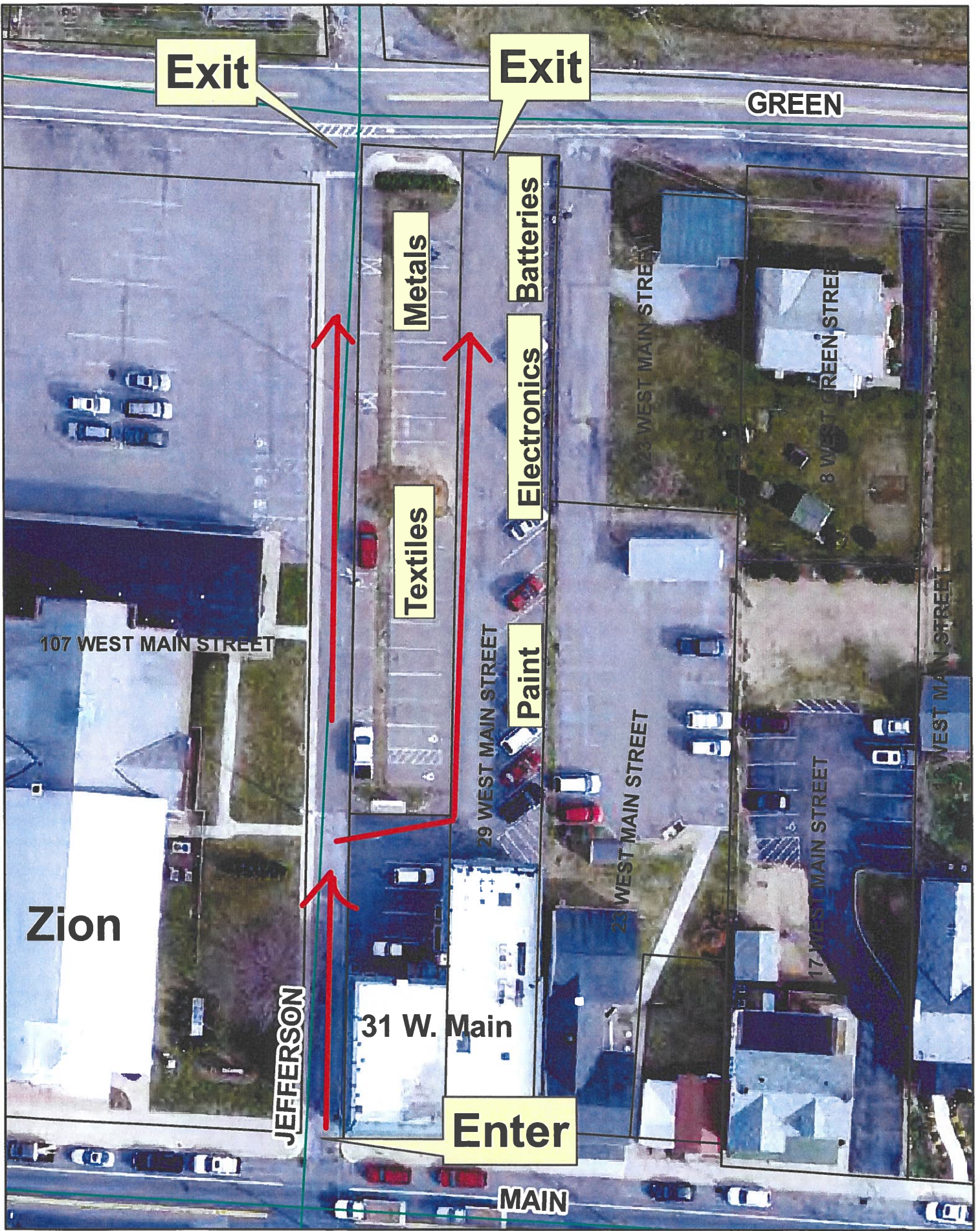


METALS  
NO WHEELS WITH TIRES



Recycle  
Gallon or Quart Sizes  
\$5 / can





October 21, 2023 Recycling Event at Municipal Parking Lot

# 2023 FALL RECYCLING EVENT SIGN-UP

Saturday, October 21st 9am - 12noon

Time	Number of Adult Volunteers Needed	Names
8:30am - 9:00am	4	Cindy Unangst _____ _____ _____
9:00am - 10:30am	5	Cindy Unangst _____ _____ _____ _____
10:30-12:00noon	5	Cindy Unangst _____ _____ _____ _____

## Cindy Unangst

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**From:** sourdoughcreek@earthlink.net  
**Sent:** Sunday, August 20, 2023 9:17 AM  
**To:** Kristin.King@brynathyn.edu; Ann Payne; greenteam  
**Subject:** RE: Alternatives to glyphosate

Hi

I usually try pulling weeds first even though my neighbors might think I'm crazy weeding my driveway. It is made of brick.

To get at those pesky roots that might remain I then use regular household vinegar which is about 6% acidity, add some regular table salt (roughly  $\frac{1}{4}$  cup per gallon), and few squishes of dish soap (usually Ever Spring Dish Soap which is made from biodegradable ingredients and supposedly consists of 97% biomass materials and use about  $\frac{1}{3}$  cup per gallon). Basically, my concoction contains largely materials that we eat or use to preserve food—pickles anyone?. And it works pretty well on my driveway, and other built areas. I rarely use it in plantings though.

We have only used glyphosate on stumps after cutting back the branches of Amur Honeysuckle that was growing in our back ditch (a.k.a. forestry easement). We brushed it directly on as soon as we cut the main trunk. This is what DNR does when it takes down well established invasive trees such as Tree of Heaven or Bradford Pear. It is critical to kill the root to kill the tree fully or little sprigs come popping up. Digging the root up is impractical due to the time and effort as well as the ecological destruction such an effort would cause.

My alma mater CU Boulder weeds the campus using boiling water. I like the idea, but I am perplex by the challenge of how to keep the water boiling hot long enough to really have the full effect. In the alumni magazine they showed a photo where the University has a tank of boiling water that the grounds crew drives around the sidewalks in a little utility truck as they work. It comes out as a controlled spray through a special nozzle. {I noticed that there is a link to a related article in Ann's note.}

I would agree any chemical use should be done as a last resort. But, sometimes there is no other real solution. Using it in a controlled way is best.

Karen

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**From:** Kristin King <Kristin.King@brynathyn.edu>  
**Sent:** Saturday, August 19, 2023 4:03 PM  
**To:** Ann Payne <paynestake@gmail.com>; Green Team <greenteam@ci.middleton.md.us>  
**Subject:** RE: Alternatives to glyphosate

Thanks for the helpful links, Ann. All very interesting.

I use 45% industrial vinegar, diluting it to slightly less than 20%. I always wear a mask and gloves and try to spray close to (i.e. right on top of) the weeds to keep any breeze from carrying fumes.

Kristin

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**From:** Ann Payne <[paynestake@gmail.com](mailto:paynestake@gmail.com)>  
**Sent:** Saturday, August 19, 2023 11:56 AM  
**To:** Green Team <[greenteam@ci.middleton.md.us](mailto:greenteam@ci.middleton.md.us)>  
**Subject:** Alternatives to glyphosate

If nothing else, please read this [recent report from Forbes magazine](#). I am sure we all agree that our dear little town has an obligation to maintain the safety of our citizens and the workers we hire AND that coming up with alternatives may not be easy. But this issue is clearly not something we can, with a clear conscience anyway, blow off. Some research follows.

- Steam weeding: <https://www.colorado.edu/today/2017/04/26/cu-boulder-employs-steam-control-weeds-campus>
- [Horticultural vinegar at Tractor Supply](#) - read reviews for info.
- Glyphosate v. FoamSteam: <https://www.weedingtech.com/blog/glyphosate-vs-foamstream-which-form-of-weed-control-is-right-for-your-organisation/> Seems foam works, but is more water intensive, which is not good for us at this time.
- A town (Cardiff in the UK) grappling with these same issues: This [interesting study](#) reveals why this area reduces, not eliminates, glyphosate by using IPM. (Btw, it looks like glyphosate may be banned in Europe by 2025.)

*"In light of the results the Council will continue with its current integrated approach to weed control, which combines hand weeding, hoeing, forking, mulching and mechanical sweeping, and the application of approved herbicides, while also taking measures to continue reducing the use of glyphosate-based products."*

I wrote a national expert to ask but have not heard back yet. I also asked UMD Extension, who said they had done no research on this topic. Hope this is helpful. A little? Hoping more info comes in.

Having waded through all of this (plus one of the streamed court cases that Bayer lost - ugh), I personally conclude that we should actively at least start to test out suitable alternatives to glyphosate. We know that industrial strength vinegar is not baby candy either (!) but it is not known to cause cancer in humans or animals. What do you think? Doesn't a limited test of methods make the most sense?

Thanks for considering this issue! Life ain't easy!

Ann

*"Making peace with nature is the defining task of the 21st century."*

*Antonio Guterres, Secretary General of the United Nations*

## Cindy Unangst

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**From:** Pam McDonald <pmmcdnld@gmail.com>  
**Sent:** Wednesday, August 16, 2023 3:52 PM  
**To:** Cindy Unangst  
**Subject:** Re: Here is the vinegar we use

If you click on the Amazon link, you will see pricing. It's a concentrate, so I am not sure what the quantity/needs of the town would be. I also think there might be a commercial outlet for it with better pricing for a municipality. Just an idea. We have had great success with it in our yard for killing crab grass.

Thanks,  
Pam

Pam McDonald  
pmmcdnld@gmail.com

On Aug 16, 2023, at 2:32 PM, Cindy Unangst <cunangst@ci.middleton.md.us> wrote:

Thanks Pam. Any idea on the cost?

Cindy

-----Original Message-----

**From:** Pam McDonald <pmmcdnld@gmail.com>  
**Sent:** Tuesday, August 15, 2023 6:45 PM  
**To:** Cindy Unangst <cunangst@ci.middleton.md.us>; Kevin Stottlemeyer <kstottlemeyer@ci.middleton.md.us>  
**Subject:** Here is the vinegar we use

This is the concentration that kills weeds. We get it from Amazon.

Calyptus 45% Pure Super Concentrated Vinegar | Dilutes to 9 Gallons | 9x Power Concentrate Vinegar | 1 Full Gallon (128 Fl Oz) <https://a.co/d/eboaacg>

Thanks,  
Pam  
Sent from my iPhone

NOTES FROM STAFF MEETING ON AUGUST 1, 2019

Discussion about costs for herbicide treatment with Bruce – below are his research findings:

Glyphosate – 10 gallons → 200 gallons mixed; \$150/year; 2 men/4 days

Alternatives – vinegar/salt/dish soap = \$714

    Citric acid = \$550

    Burnout – citric acid/clove oil = \$2,176

On-line course for applicator license – Phil is pursuing

# Weed Spraying

- 10 gal concentrate Ranger Pro  $3750 / 2.5 \text{ gal}$
- $\rightarrow$  200 gallons mixed spray  $5150^{00} / \text{year}$
- 1x/year

## Alternatives

- Residents spray their own curbs
- no cost to town
- $\frac{2 \text{ men}}{\text{men}} \times \frac{4 \text{ days}}{\text{days}}$  (streets)
- 2 men x 2 days for parking lots / play grounds / facilities

1 teaspoon = 0.125 oz  
 $\therefore .07 / \text{oz}$

- Vinegar / Salt / Dish Soap -  $\frac{1 \text{ gallon}}{3^{00}} / \frac{2 \text{ cups}}{4^{1/2} / 2^{00}} / \frac{1 \text{ teaspoon}}{7^{00}}$  (homemade)  $0.50 / 2 \text{ cups}$
- Citric Acid (homemade)  $\$3.57 / \text{gallon}$
- Burnout (comm purch)  $530^{00} / \text{gallon}$   
 $1 \text{ pt conc} / 2 \text{ parts water} = 3 \text{ gal} / \text{gal}$   
 $68 \text{ gallons req'd} = \boxed{\$2176^{00}}$

Citric Acid Solution  
 10%  $55 \text{ gal} / 550^{00}$   
 $= 16 \text{ gal} / 200 \text{ gallons}$

## WILDLIFE HABITAT PROGRAM

### Habitat Advisors

#### It's a fact: You can really make a difference.

Are you concerned about the loss of habitat for birds, pollinators, and other wildlife? Do you want to make a difference by creating beneficial and beautiful habitat on your own property? Don't know much about wildlife gardening? Don't know how to get started? **Help is available**—Keep reading!

Introducing Wildlife Habitat Advisors: The **Wildlife Habitat Advisors Program** offers residents and business owners the opportunity for a no-cost, on-site, in-person visit with trained Habitat Advisors working to transform private outdoor spaces into diverse native landscapes. The Advisors volunteer their time and knowledge because they believe that, working yard by yard, we can make a difference for wildlife and for people. They won't have all the answers, but they will work with you to empower you to transform your outdoor space. No landscape is too small or too large.

**Visits go like this:** Volunteer habitat advisors typically spend an hour visiting your home, neighborhood site, or business. They walk the property together with you, discussing questions and circumstances unique to your property. They want to know what you envision for your property. They talk with you about native plants and landscape elements that provide food, water, and shelter for birds, pollinators and other wildlife. Important topics such as garden structure, lawn reduction, invasive plant removal, native plantings, water conservation, and bird protection are discussed. Together, advisors and property owners set priorities and make a plan. Habitat advisors provide selected materials, write a follow-up report, and are available for further assistance if you request.

Contact [dlarnerp@gmail.com](mailto:dlarnerp@gmail.com) for more information or to schedule a visit.

#### **Short Explanation**

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