

**BERRYVILLE TOWN COUNCIL COMMUNITY IMPROVEMENTS COMMITTEE  
MEETING AGENDA  
Berryville-Clarke County Government Center  
101 Chalmers Court, Second Floor  
Meeting Room A/B  
Regular Meeting  
March 26, 2018  
7:00 p.m.**

**Attachment**

- |                              |                                     |   |
|------------------------------|-------------------------------------|---|
| <b>1. Call To Order</b>      | Donna McDonald, Chair               |   |
| <b>2. Approval of Agenda</b> |                                     |   |
| <b>3. Discussion</b>         | Lighting at Rixey Moore Parking Lot | 1 |
| <b>4. Discussion</b>         | Tesla/Cripple Creek chargers        | 2 |
| <b>5. Discussion</b>         | Pollinator project                  | 3 |
| <b>6. Information</b>        | Tree Board tree planting – May 5    |   |
| <b>7. Closed Session</b>     | No Closed Session Scheduled         |   |
| <b>8. Other</b>              |                                     |   |
| <b>9. Adjourn</b>            |                                     |   |

↑ Denotes an item on where a motion for action is included in the packet

# Attachment 1

**BERRYVILLE TOWN COUNCIL**  
**Community Improvements Committee**  
**Lighting at Rixey Moore Parking Lot**  
**March 26, 2018**

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The wind storm on or around March 2, 2018 caused damage to an existing light pole and knocked the fixture off at the rear of the Rixey Moore Parking Lot. Due to safety concerns, the pole was removed. The pole also had a power source that will need to be reinstated.

Staff is anticipating receipt of some specifications for fixtures from the electrician who removed the pole and is requesting a discussion about light fixtures for the parking lot.

The Governor's Office declared a State of Emergency in response to this severe weather and the Virginia Department of Emergency Management issued notice to localities. This action will enable localities to apply for funding assistance to repair items that were damaged as a result of the severe weather.

**Recommendation**

Discuss fixtures at the meeting.

# Attachment 2

**BERRYVILLE TOWN COUNCIL**  
**Community Improvements Committee**  
**Tesla/Cripple Creek Electric Vehicle Charging Stations**  
**March 26, 2018**

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Town staff applied for and received a grant from Tesla to install level 2 charging stations at the Berryville-Clarke County Government Center. Staff has also discussed the possibility of installing chargers at the Rixey Moore parking lot.

General information is included in a memo to Keith Dalton dated December 22, 2017 (following this report).

Staff discussed the effort with a Tesla representative on February 21, 2018 and received the following information:

- Tesla charger can be wall mounted or on a pedestal (would be the size of a parking meter)
- Costs to be determined (general cost given by Tesla 12 cents per kilowatt hour)
- Hardware donated, Tesla proprietary has warranty for the life of program participation
- Tesla will put \$1,500 toward each station for installation, balance paid by owner
- Will donate hardware 2:1 Tesla:Cripple Creek (everyone else)
- Tesla drivers have adaptors for Cripple Creek, other EV users do not have adaptors for Tesla
- Can provide signage
- Next step: approval from Council/BOS
- Engage electrician, identify location(s)
- Peter will be sending cut sheets and single line drawings for review
- Front end takes longer, once approved 1-2 weeks to ship hardware, installation 1-2 days.

Staff has discussed the installation with County representatives.

**Recommendation**

Discuss at the meeting.

**TOWN OF BERRYVILLE**

Department of Planning & Zoning

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# **MEMO**

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DATE: December 22, 2017

TO: Keith

FROM: Christy

RE: Electrical stations for vehicles

Per your request, I have done some preliminary research on the installation of electric charging stations on public property. Below is a synopsis of information and action taken thus far:

**Anticipated Growth of the Industry (SOURCE: Forbes)**

- U.S. electric vehicles (EV's) have grown an average of 32% annually from 2012-2016 and 45% over the year ending June 2017
- Energy Policy Simulator computer model forecasts that EV sales could reach up to 75% by 2050
- Positive industry momentum includes rapid battery cost declines, rising commitment from major automakers, strong policy support from state and local governments, and low operational costs (including discounted charging tariffs from utilities)

**Types of Charging Equipment (EVSE) (SOURCE: US Department of Energy)**

- Electric vehicle supply equipment (EVSE) is the term used for charging equipment
- PEV is the acronym for plug-in electric vehicle and EV is used for all electric vehicles
- We would likely look at Level 2 EVSE stations
- There are three tiers of stations:  
*Level 1*
  - Provides charging through 120 volt AC plug

- Typically used for charging when there is only a 120-V outlet available (residential locations)
- Charging adds 2 to 5 miles of range to a PEV per hour of charging time

#### *Level 2*

- Can charge typical EV battery overnight and will be a common installation for home, workplace, fleet, and public facilities
- Provides charging through 240-V or 208-V service
- Hard-wired for safe operation
- Requires installation of charging equipment and dedicated circuit of 20 to 80 amp (A) depending on the EVSE requirements
- Based on battery type, charger configuration, and circuit capacity, charging adds 10 to 20 miles of range to a PEV per hour of charging time

#### *Level 3 (DC Fast Charging)*

- 480-V input to the EVSE enables rapid charging sites such as heavy traffic corridors and public fueling stations
- Charging adds 60 to 80 miles in a 20 minute charging time

I have not researched the Tesla facilities vs. everyone else.

#### **EVSE Costs (SOURCE: US Department of Energy)**

- Costs incurred include equipment, installation, maintenance, and electricity costs
- The price of Level 2 EVSE is approximately \$1,000 to \$7,000 (before incentives)
- Above costs based on level of sophistication and features

#### **Action Taken**

- cursory research on a number of web sites
- Emailed Mountain View Solar (MTV Solar) out of Berkeley Springs to discuss options as they have done a number of local projects
- Contacted NSVRC transportation staff to discuss funding, any other localities that may be looking at these facilities (none indicated on "alternative energy vehicle support" maps online), will follow up after the holidays
- Researched Virginia Clean Cities information and emailed staff to discuss incentives including identifying vendors and any federal, state, or private funding available
- Contacted Jeff Hinson and Cindy Musick (she leads REC's in-house team dedicated to electric vehicle strategy). I will get with her after the holidays to discuss site selection criteria, the Electrify American program, and funding opportunities through Virginia DEQ.

### **Future Action**

- I will follow up with those not available until after the holidays.
- I will look into economic development-related grants that may be available for EVSE through Berryville Main Street, Loudoun staff, and others
- Research environmental/community grants that might be available (will talk to Alison, DEQ, DCR, REC)
- Research localities that have facilities and contact staff to discuss a variety of items (e.g., site consideration, number of stations recommended, signage)
- Talk to Kathy and Boyd to get an idea on costs to install at Rixey Moore and GC

Please let me know if you have other ideas of folks to contact and/or grant sources or other action you would like me to take.

# Attachment 3

**BERRYVILLE TOWN COUNCIL**  
**Community Improvements Committee**  
**Pollinator Project**  
**March 26, 2018**

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Town resident Bradly Braithwaite has submitted a proposal to consider the installation of pollinator habitat on parcels owned by the Town and County. The parcels, identified in the following proposal submitted by Mr. Braithwaite, include stormwater management facilities on Jack Enders Boulevard and property owned by the Town close to the river.

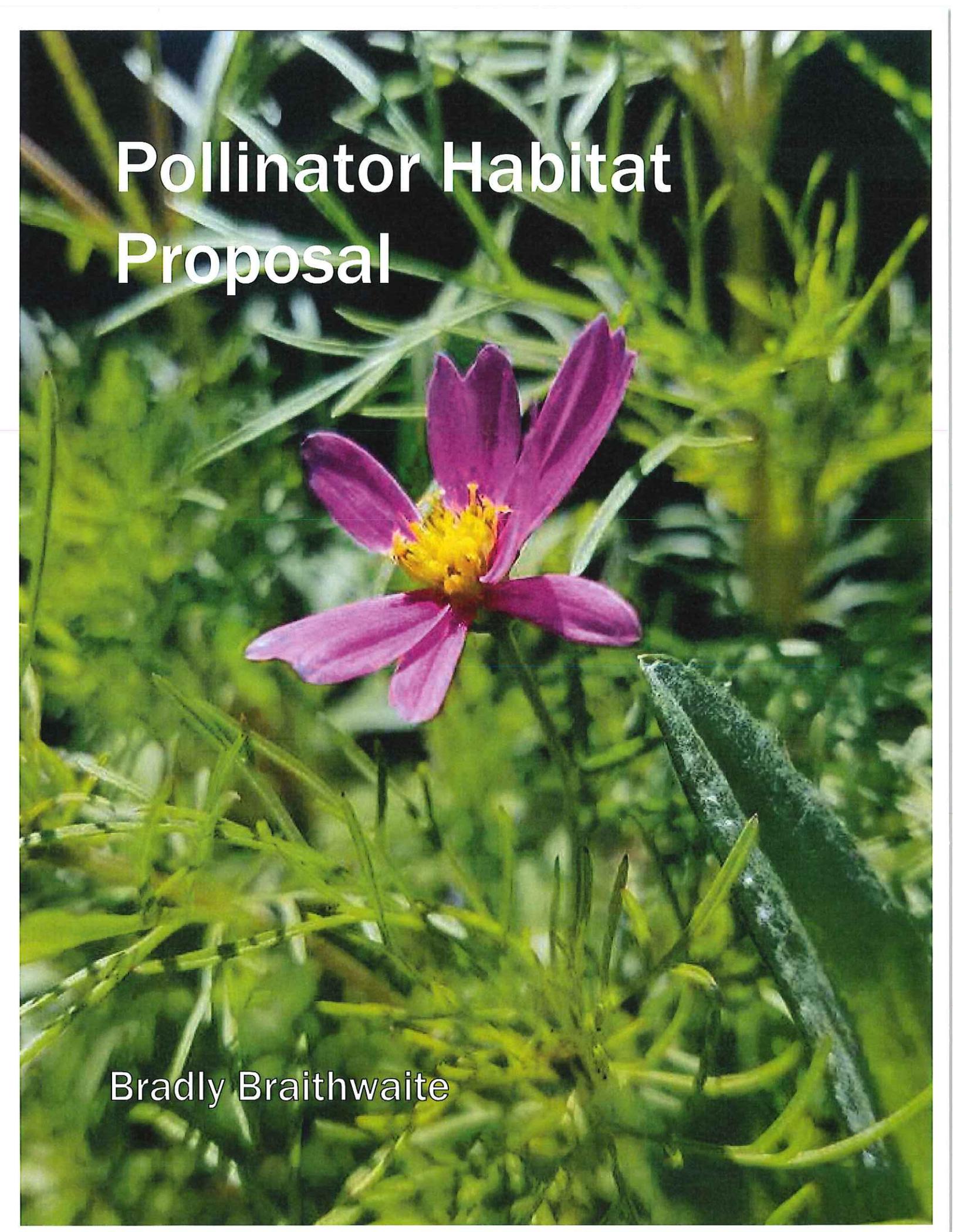
Staff has discussed the following items with Mr. Braithwaite concerning the request:

- Any work on publicly-owned property would require the approval of elected officials and necessitate liability insurance for those working on the respective property;
- Town Code requirements for property maintenance;
- Funding; and
- Future maintenance responsibility of the planted area(s).

Mr. Braithwaite has discussed the project with a group from Johnson-Williams Middle School who is interested in assisting.

**Recommendation**

Discuss at the meeting.

A close-up photograph of a single, vibrant pink flower with a bright yellow center, surrounded by lush green foliage. The flower is the central focus, with its petals fully open and its center showing numerous stamens. The background is a dense thicket of green leaves and stems, some of which are slightly out of focus, creating a sense of depth. The overall lighting is bright and natural, highlighting the colors of the flower and the surrounding vegetation.

# Pollinator Habitat Proposal

Bradly Braithwaite

My name is Bradly Braithwaite, I am a resident of Berryville, Virginia at 213 Tyson Drive. I have lived in Clarke County my entire life, and love this town. I am currently a full-time student, studying Environmental Science and Sustainability in order to become a high school teacher. I work full-time as a Chef, and garden as much as possible. My wife, Gabrielle, and I took up beekeeping as a hobby last year and learned so much.

Since Clarke County is a farm community, it comes as no surprise how vital our pollinators are to agriculture as well as our natural environment.

Unfortunately, in the past few years, honeybee and native pollinator populations have been dwindling. Monarch butterflies are struggling, the rusty patched bumblebee is listed as an endangered species, and honeybee populations fell 40% in 2016 alone.

A lot of these shrinking populations can be linked to urbanization and monoculture of the "American lawn" that we see across the country today. Homeowners and individuals plant small gardens and usually plants shrubs and bushes that do not require much care to landscape their homes. They also plant commercially available common flowers, such as marigolds, petunias, tulips, etc. And these flowers are great sources of color for the landscape as well as some food for pollinators- but what has proven to be more nutritional and more effective for pollinator species are native wildflowers. Native wildflowers provide nectar and pollen to honeybees, bumblebees, butterflies, and hummingbirds. Best of all, these wildflowers are free of pesticides, contrary to the commercially grown flowers that are available in most big box stores. A specific class of pesticides- known as neonicotinoids- have caused devastation amongst pollinator species.

There is good news, however. With more people becoming aware of the problem, we have more protection precautions and have sparked a wildflower movement. Last year, honeybee populations bounced back a little, most likely in relation to decreased home use of pesticides and increased wildflower plantings.

Wildflowers are not only good for pollinators, but they also encourage biodiversity and can even reduce pest populations by inviting in beneficial insects to ward off the bad ones! Plus, wildflowers are just gorgeous and provide lasting, colorful, maintenance-free blooms all season long.

#### **My proposal is this-**

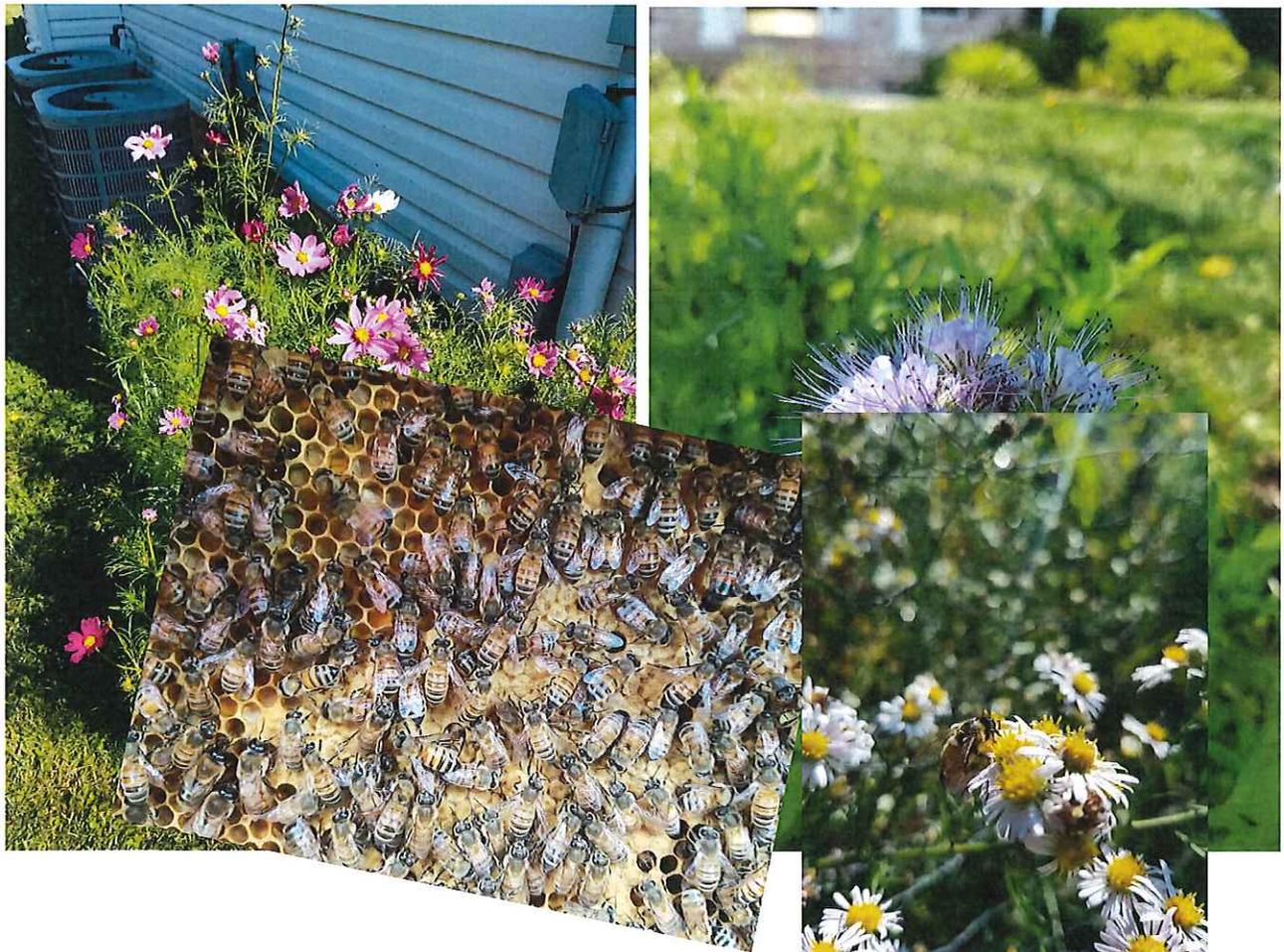
Upon looking at the Clarke County Online Maps Resource, I have identified several county/town owned parcels of land that I think would be great candidates for being converted into Pollinator Habitats with the use of a little bit of soil tillage- and in some cases, none- and some native wildflower seeds.

I would be beyond willing to volunteer my efforts to getting these lands transformed into a buffet of protein and carbohydrates for our pollinator friends here in Berryville.

The parcel ID #'s for the <https://www.mapsonline.net/clarkecounty/index.html> are as follows:

14A6A1A, 13A59A, 14A55A, 14A38B, 1465, 24A36, 24A40, 23A24

I personally think that the 14A55A parcel is a great place to start. At the end of Josephine St, the meadow in between the house on the corner and Jack Enders Blvd. At .92 Acres, this is a decent size parcel, but small enough to be a manageable start to this great project! Not only could we plant in areas such as that, but also along roadways, in medians, in our local parks, etcetera. Unused land is wasted land, and every inch of wildflower meadow means a lot for pollinator species.



Information Sources and Additional Information-

<https://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/newsroom/features/?cid=nrcseprd1326644>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4131891/>

<https://xerces.org/neonicotinoids-and-bees/>

<https://www.pbs.org/newshour/science/neonicotinoid-pesticides-slowly-killing-bees>

<https://www.popsci.com/save-bumblebees-wildflowers>

<https://www.citylab.com/environment/2018/02/what-should-grow-in-a-vacant-lot/552671/>

Photos by Bradly Braithwaite, no permission needed

**BERRYVILLE TOWN COUNCIL**  
**Community Improvements Committee**  
**Tree Board Tree Planting**  
**March 26, 2018**

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The Berryville Tree Board will be holding a Tree Planting on opening day of the Clarke County Farmers' Market, Saturday, May 5, at 11:00am. The tree will be planted next to the playground where one had been planted previously. Casey Trees will be supplying a tree for the planting.