

NUMBER OF WILDLIFE HABITAT PROGRAMS

2007 24	
2011	128³
2012	134
2013	132
2020 GOAL	100

NUMBER OF ACRES PROTECTED

2007	17,000	
2011	26,000	
2012	28,000	
2013	27,000	
2020 GOAL	25,000	

Certification Recognition



http://wildlifehc.conservationregistry.org/



WHC Education Department



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WILDLIFE HABITAT COUNCIL

The Wildlife Habitat Council (WHC) promotes and certifies habitat conservation and management on working lands through partnerships and education.

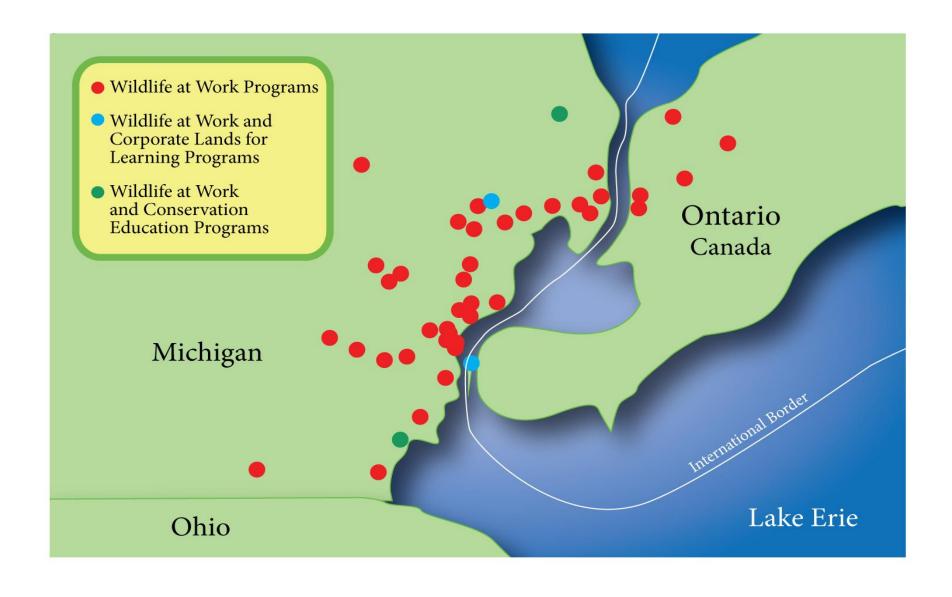
Spotlight



The Night I Saw an Eastern Tiger Salamander



WHC & businesses committed to habitat restoration





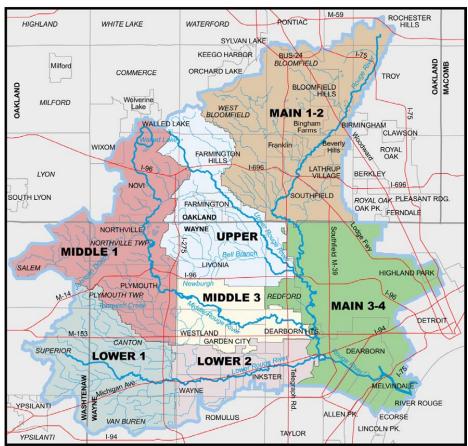
Clinton River Watershed – above, Shiawassee to the NW, Huron to the SW

OAKLAND COUNTY

Rouge River Watershed - right

No matter where we live

We all live in a watershed



Post 2012 Observations & Activities

Early Spring 2012 / Post WHC Recertification - Hawk nest visible from Giddings Rd.



2012 Spring Forest Inventory

Ruth Vrbensky – local naturalist visited Eagle Valley to identify native species in the woodlots to the west in the area pending new cell develop.

WM harvested native plants in 2013 & 2014

- Oakland Wildflower Farm
- Natural Community Services









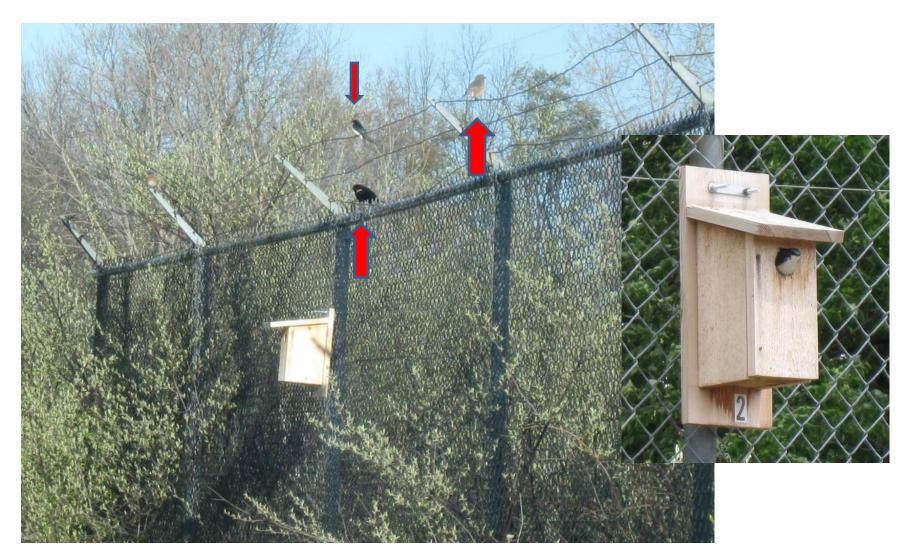






2012 May (post certification) lots of Blue Bird sightings – now - very few

Blue Bird, Tree Swallow & Red Wing Black Bird – deciding who was first to spot the new blue bird house...the Tree Swallow won...back to back placement is recommended and these houses will be relocated off the fence and back to back.







Belted King Fisher

Sandhill Cranes



2012 Wildlife Rescue Attempts

- Injured duck at Paint Creek near Orion Art Center
- Barn Swallow







Fall 2012 Species Inventory

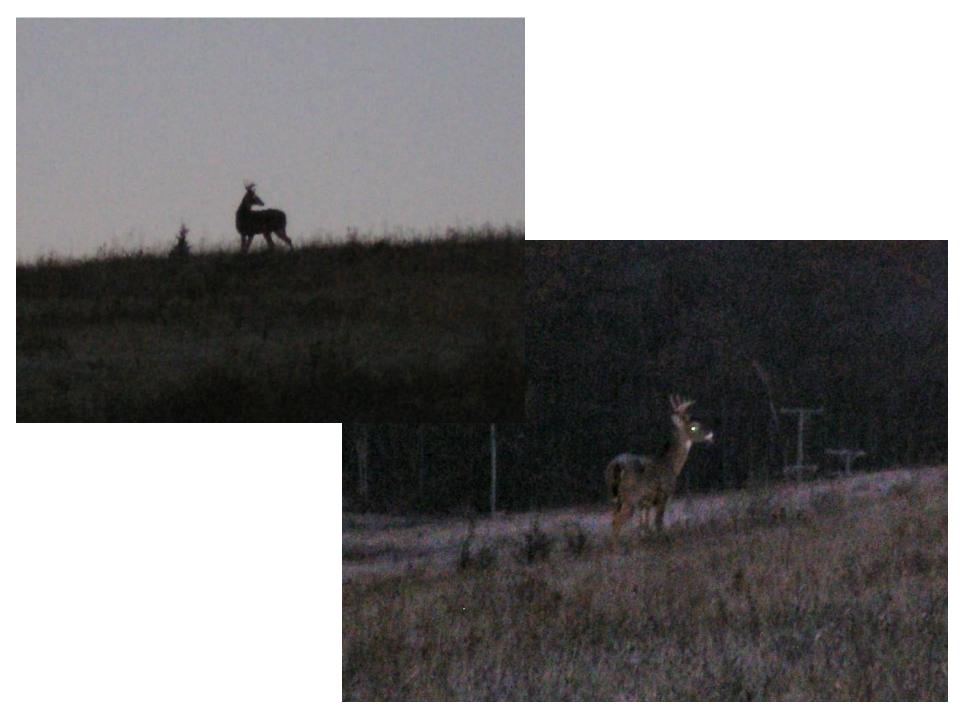


Dead Turtle Crime Scene











2012 Waldon Middle School Teacher Dan Hunter & students constructed an Owl House for WM.

Owl House Installation





9 year old
Alexa
Dinnewith
Plotting EV
bird observations
in the Cornell
Ornithology Lab
Data Base



Sent: Friday, January 04, 2013 9:53 AM

To: Klein, Kathleen

Subject: Re: Complete Instructions and Observation Journal...

Thanks Kathy! The data entry has begun:) Alexa actually remembered most of what we did yesterday. The triangles help a lot. We did the first few entries together, but she's really got it down and is already almost halfway through the list.

She's also copy and pasting the observations from the spreadsheet into the comments section so that will give some added information. She may need a few clarifications, like one entry says yellow finch- she wants to know whether you meant goldfinch. After she's through the list we can send those to you. Also, when she's done putting in all in, we'll double check the info. I think she'll have it done this morning!

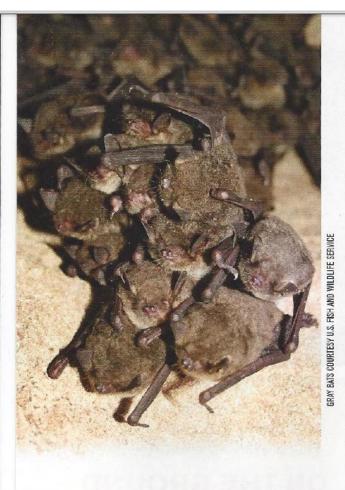
Lauren

2013 Observations & Activities

MARCH 2013 - Chemical mapping being used to determine migratory patterns and how the disease is being transmitted.

7 species of bats were determined to be affected by 2013.

The little brown bat is changing its social behavior — up to 75% of them are roosting singly now rather than in social enclaves.



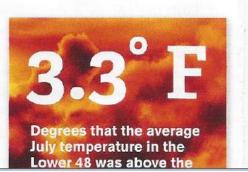
Fighting the Fungus

In the race to save bats affected by the deadly white-nose syndrome, scientists from Michigan Technological University are using chemical "fingerprinting" to identify where bats hung out the previous summer.

Testing hair collected during hibernation, the researchers can match it to the hydrogen fingerprint of the geographic area where each bat grew the hair. The aim is to figure out the bats' movements, which hibernation sites are connected, and how disease could be transmitted—and ultimately managed—among locations.

It's not a moment too soon. The U.S. Fish and Wildlife Service recently confirmed white-nose syndrome now afflicts the federally listed endangered gray bats in Tennessee upping the count to seven species.

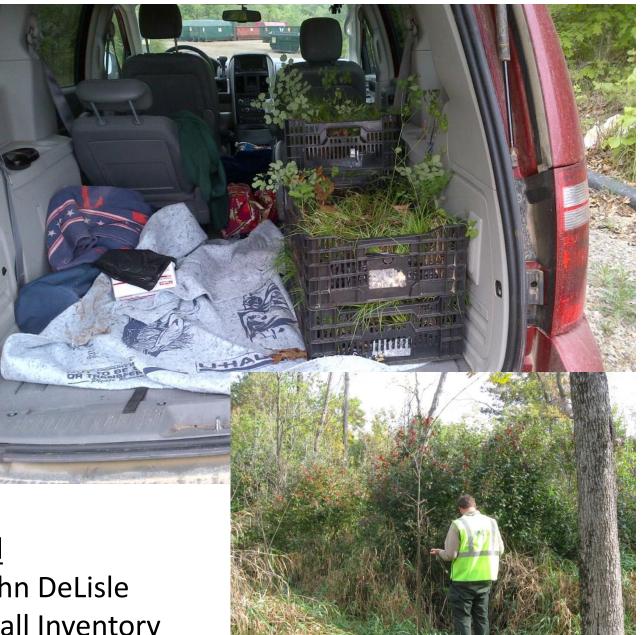
One hopeful note: The gregarious little brown bat, which prefers to roost in dense clusters, is changing its social behavior in response to the disease, according to University of California-Santa Cruz scientists. "We now see up to 75 percent of them roosting singly," says Kate Langwig, lead author of the paper. "This study gives us an indication of which species face the highest likelihood of extinction, so we can focus management efforts and resources on protecting those species."



2013 Spring

Ruth Vrbensky harvested native plantings





2013 Fall

NCS - John DeLisle did our Fall Inventory

SNAPPING TURTLES MATING IN WEST SEDIMENTATION POND



https://www.youtube.com/watch?v=TaDjnkp0ohY

https://www.youtube.com/watch?v=-isWwOwOtTs





2013

Failed pollinator garden -

Removed due to unintended groundhog habitat.



Successful Pollinator Garden







Blue Bird House # 1 by Shop -

Determined through internet investigation to be house sparrow eggs



Blue Bird House # 3





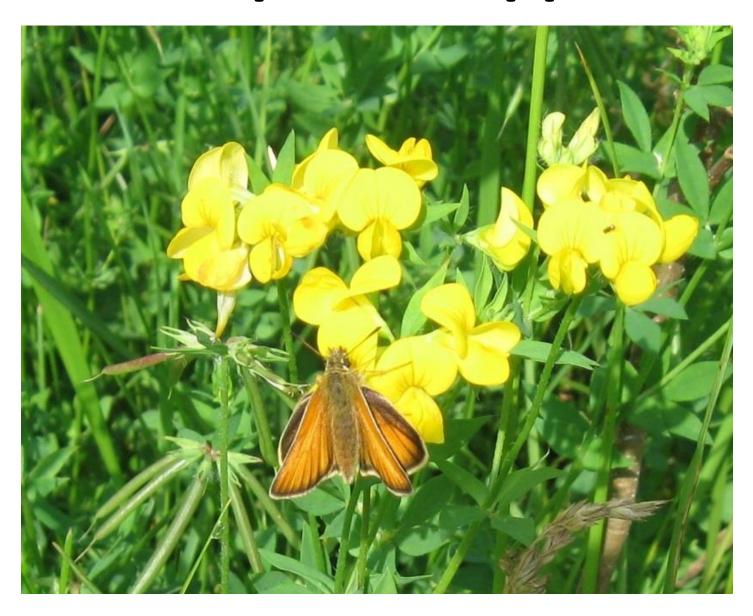


2013 Butterfly Obervations & activities



Baltimore Checker Spot

European Skipper



2013 - DRAGON ON THE LAKE

GM & **W**M Wildlife Warriors Dragon Boat Team



2013 Fall

Ditch maintenance and subsequent phragmites removal



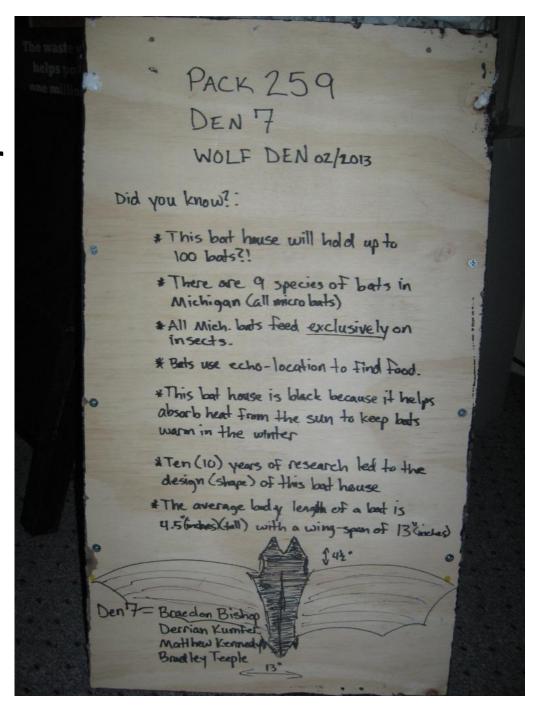
2013 Fall – Crime Scene Investigation



2013 Bat House Project

Eric Bishop Troop Leader Romeo/Oakland Twp Pack 259 Den 7







MOST INTERESTING DISCOVERY OF 2013

- All the European Starlings in North America descended from 100 birds set loose in New York's Central Park in the early 1890s.
- Because of their recent arrival in North America, all of our starlings are closely related. Genetically, individuals from Virginia are nearly indistinguishable from starlings sampled in California, 3,000 miles away. Such little genetic variation often spells trouble for rare species, but seems to offer no ill effects to starlings so far.
- Starlings are great vocal mimics: individuals can learn the calls of up to 20 different species. Birds whose songs Starlings often copy include the Eastern Wood-Pewee, Killdeer, meadowlarks, Northern Bobwhite, Wood Thrush, Red-tailed Hawk, American Robin, Northern Flicker, and many others.
- Starlings are strong fliers that can get up to speeds of 48 mph.
- The oldest recorded wild European Starling was 15 years 9 months old.

2014 Observations & Activities

WM invited to be 2014 Honorary Chair of the Trail Water Land Alliance

TWLA is an informational gathering of government, non-profits and businesses working towards green space preservation and development and water recreation in Oakland County





Barred owl - Luna



Red-tailed hawk - Ruby



Turkey vulture - Eva

Eva saves Ruby by Susan Stamy

I like to get my education birds out of their enclosures for a walk, leashed on my arm or tethered to their weathering perch. This gives them a change of scenery, something different than being in their enclosures all day and I know they enjoy being out. The only one that is not tethered is Eva, our turkey vulture because she is completely non-flighted due to her injury. I sit her on her perch and she is free to find treasures in the tall grass, though I never take my eyes off of her because she has been known to be naughty.

When the birds are out with me, I always watch them carefully because they can warn me if

something is wrong. Their eyesight is much keener then mine.

One late summer afternoon I had Luna our barred owl, Ruby the red-tailed hawk and Eva out weathering. (Weathering in rehabilitation means to take the bird out into the open for sunlight and exercise. It is enrichment – a change in environment.) Luna was on her perch right in front of me, Ruby was perched about 30 feet away and Eva had decided to perch herself on the back seat of the golf cart which was about 10 feet away from Ruby. Luna started doing her head swing, alerting me that she saw something in the woods. I looked in that direction but for the life of me I could not see what she was looking at. Then Eva started to flap her wings and stomp her foot. This is a red flag Eva only does when something is very wrong.

I got up and headed towards Eva not seeing anything. Even when I was standing right in front of her I saw nothing. I glanced over at Ruby who is now only about 6 feet away and my heart stopped. Less than 4 feet away from Ruby was a coyote ready to pounce on her! My presence didn't even make the coyote move. I ran straight towards the coyote and chased it well past the 100 foot enclosure. I don't even like to think what would have happened if Eva had not alerted like she did.

One thing for sure, Ruby would no longer be with us if it had not been for Eva.

Yes, Eva was rewarded with her favorite treat, beef heart, for several days after!

Coyote Sighting at Eagle Valley









www.batconservation.org

White-nose Syndrome Found in Michigan

Today the Michigan Department of Natural Resources announced that the DNR survey team has discovered the presence of the fungus *Pseudogymnoascus destructans* and White-nose Syndrome in Michigan. Officials have confirmed the diagnosis in Little brown bats sampled at sites in Alpena, Dickinson and Mackinac Counties. Read the DNR press release here/br/

White-nose Syndrome has been spreading west since it was first documented in New York in 2006. Since that time, more than 5.7 million bats have been killed by this disease. Michigan now joins 26 states and 5 Canadian provinces that have identified White-nose Syndrome in their area.



White-nose syndrome confirmed in bats in Michigan

Contact: Dan O?Brien, 517-336-5035 or Ed Golder, 517-284-5815

Agency: Natural Resources

April 10, 2014

The Michigan Department of Natural Resources (DNR) and a consortium of partners announced today that the fungus known to cause significant rates of illness and death in North American bats has been detected for the first time within the state's borders. White-nose syndrome (WNS) has been found in three Michigan counties: Alpena, Dickinson and Mackinac.

"These are the first confirmed WNS cases in Michigan. Even though we've known this disease was coming, it is a disappointing day," said Dr. Dan O'Brien, DNR wildlife vetering in an armonic program of the confirmed wildlife vetering in an armonic program.

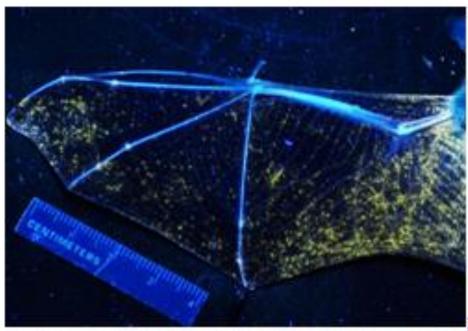
Photo Courtesy of Marvin Mortarty /USFWS

said Dr. Dan O'Brien, DNR wildlife veterinarian. "We will now shift gears and try to stop the spread of this serious disease."

Five little brown bats (Myotis Jucifugus) showing disease characteristics were collected in February and March during routine WNS surveillance by Dr. Allen Kurta and Steve Smith, researchers from Eastern Michigan University. White-nose syndrome was diagnosed by Michigan State University's Diagnostic Center for Population and Animal Health (DCPAH), in cooperation with the DNR Wildlife Disease Laboratory.

How does white-nose syndrome kill bats?

Jan 05, 2015



Long-wave ultraviolet (UV) and white-light illumination of lesions associated with white-nose syndrome. Wing from dead eastern pipestrelle, (Pipistrellus subflayus) lit from above with handheld 51 LED 385-nm UV flashlight shows points of orange-yellow fluorescence. Credit: U.S. Geological Survey

For the first time, scientists have developed a detailed explanation of how white-nose syndrome (WNS) is killing millions of bats in North America, according to a new study by the U.S. Geological Survey and the University of Wisconsin. The scientists created a model for how the disease progresses from initial infection to death in bats during hibemation.

"This model is exciting for us, because we now have a framework for understanding how the disease functions within a bat," said University of Wisconsin and USGS National Wildlife Health Center scientist Michelle Verant, the lead author of the study. "The mechanisms detailed in this model will be critical for properly timed and effective disease mitigation strategies."

2014





WILDLIFE HABITAT PARTNERSHIP WASTE MANAGEMENT AND THE ORION CENTER

Lisa Sokol

Community Programs Director Orion Township

Kathleen Klein

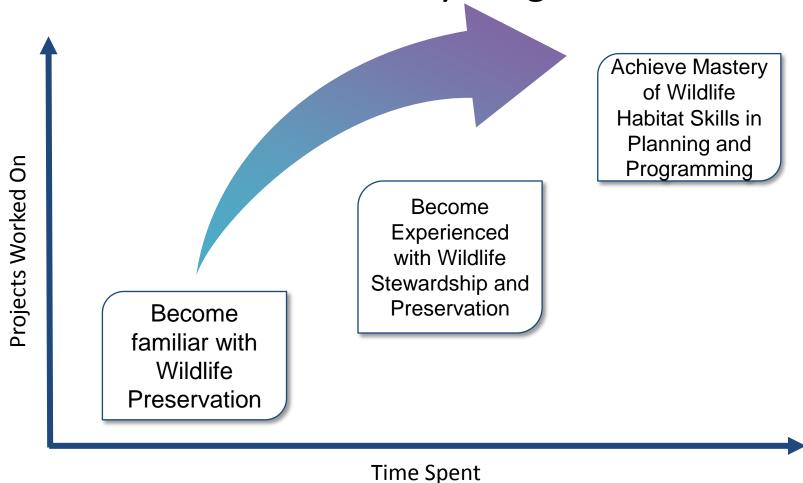
Community Relations Representative Waste Management

Meet the staff at the Orion Center





Working Toward Wildlife Habitat Mastery and Inclusion of Skills in Systemic Manner in Parks and Community Programs









Wildlife Habitat Team at Orion Center IDENTIFIED PROJECTS & PROGRAMS for 2014-2015

- Habitat Installations (Wood Duck, Blue Bird, Owl, Bat)
- Pollinator Gardens- Butterflies, Bees, and Hummingbirds
- Wildlife Observations/Journaling for Wildlife Logs
- Feeder Watch / Nest Watch monitoring programs
- Ongoing Educational Outreach Programs (Orion Center/ONTV)
- Run Wild Event and Wildlife Fair June -2014
- Wildlife Summer Camp Program June- July 2015
- Bird Flashcards and Birding Kits for Bird Walks
- Partnerships with Schools and Webber Nature Center
- Community Classes on Building Owl, Bat and Bird Houses







Orion Center Friends & Partners

- Orion Senior Advisory Council
- Parks and Recreation Advisory Council
- Friends of Orion Center Seniors
- Waldon Middle School
- Orion Oaks Elementary School
- Webber Nature Center
- Buildings and Grounds Dept.
- Community Programs Dept.
- Oakland County Parks
- Nature Conservancy
- Michigan Wildlife Conservancy
- Cornell Lab of Ornithology
- Great Backyard Bird Count
- Feeder Watch
- Frog Watch

- Monarch Watch
- Michigan Audubon Society
- Wildlife Habitat Council
- North American Bluebird Society
- MSU University Extension
 Office Oakland County
- Michigan Wildlife Habitat Foundation
- National Wildlife Federation
- Michigan Dept. of Natural Resources
- Wild Bird Unlimited
- Merlin Bird ID App
- Polly Ann Trail
- Paint Creek Trail
- Orion Township Safety Paths
- Orion Neighborhood Television
- Clinton River Watershed Council
- Seven Ponds Nature Center
- Waste Management



WM IDENTIFIED PARTNERS for planned programs and projects in conjunction with the Orion Center

- Waste Management (Sponsor)
- Orion Center Community Services/Parks & Rec Dept.
- Waldon Middle School
- Orion Oaks Elementary School
- Moose Tree Preserve
- ONTV
- Audubon Society
- Cornell Ornithology Lab
- Clinton River Watershed Council
- Oakland County Parks

WASTE MANAGEMENT'S EAGLE VALLEY RECYCLING AND DISPOSAL FACILITY PARTNERS WITH ORION CENTER FOR WILDLIFE HABITAT PROGRAM.

FOR MORE INFORMATION

Waste Management

Media Kathleen Klein (734) 231-8258

(ORION, MICHIGAN) — July 31, 2014 — Waste Management Eagle Valley Recycling and Disposal Facility and the Orion Center have forged a new partnership to increase local conservation efforts. Eagle Valley, which became certified by the Wildlife Habitat Council (WHC) in 2010, developed this new partnership to grow public participation and community outreach and education around the importance of connecting with nature. The facility is part of a national program that provides habitat for animal and plant species on 28,000 acres at over 116 Waste Management sites across North America.

WHC's Wildlife at Work certification program provides a structure for corporate-driven cooperative efforts between management, employees and community members to create, conserve and restore wildlife habitats on corporate lands. The Eagle Valley Recycling and Disposal Facility includes 50 acres dedicated to wildlife habitat as part of the Wildlife at Work program. The facility has become a popular tour destination for learning about modern waste management practices and sustainability. To help students also learn about the importance of connecting with nature, the wildlife team installed blue bird, wood duck, bat and owl houses. A journal of wildlife observations is maintained by staff at the site, and bird observations are shared with the Cornell Ornithology lab, to promote "citizen science".

Moving the program from Eagle Valley RDF to the Orion Center allows both Waste Management and the Orion Center to engage more community members in hands-on environmental education. Waste Management helped fund the installation of pollinator gardens at the Orion Center and will participate in habitat installations. Waldon Middle School Teacher, Dan Hunter and his students, helped construct some of the habitats and will conduct future habitat building workshops. Waste Management and the Orion Center have also invested in wildlife guides and other useful tools that residents can utilize to identify wildlife along local nature trails.

2014 ORION CENTER PROGRAM OFFERINGS Supporting wildlife education & stewardship

Gardening Club

The Orion Center Gardening Club will meet once a month on the 2nd and 4th Friday of the month June through September. The group will work on butterfly gardens, hummingbird gardens and pollinator gardens at the Orion Center and two raised beds of herbs and vegetables at Friendship Park at the Community Garden. Possible Garden Trips may be planned to nurseries and gardens.

Day	Date(s)	Time
F	Jun 6, 20, Jul 11, 25 Aug 8, 22, Sep 11, 25	9:00-11:00 am

Location:

Orion Center

FREE

Fee:

BIRDING AND NATURE SERIES

Birding and Nature Series Wint Nature Center

Take a Nature hike with the Naturalist at Wint Nature Center, Independence Oaks, and County Park, located in Clarkston. Learn about Birds in a Birds of a Feather, visit the Rubach Sensory Garden and enjoy a Brown Bag lunch at the park. Wear comfortable walking shoes and dress for the weather.

	Day(s)	Date(s)	Time	Age
7049.402 T	ù j	Jun 20	10:30 am-1:30 pm	55+

Location: Leaving the Orion Center at 10:30 am

Fee: \$18

Hawk Woods Nature Center

Visit Hawk Woods Nature Center in Auburn Hills and walk the groomed nature trails and marsh board walk to view summer birds and wildlife. The nature center is located on 80 acres of woods, meadows and marsh. Wear comfortable walking shoes and dress for the weather. Meet Naturalist Mike Mansour.

Code	Day(s)	Date(s)	Time	Age
7049.401	Tu	Jul 22	10:00 am -1:30 pm	55+

Location: Leaving the Orion Center at 10:00am

Fee: \$13

Dinosaur Hill Nature Preserve and Rochester Hills Environmental Education Center

Visit Dinosaur Hill Nature Preserve and Rochester Environmental Education Center in Rochester and walk the nature trails and to view summer birds and wildlife. The nature preserve has a diverse wildlife habitat. The Environmental Education Center is part of the 102.5 acre Avon Nature Area in Rochester Hills. We will also visit the Clinton Watershed Council also located on the site. Wear comfortable walking shoes and dress for the weather.

Code	Day(s)	Date(s)	Time	Age
7049.403	Tu	Aug 19	10:00 am-2:00 pm	55+

Location: Leaving the Orion Center at 10:00 am

Fee: \$15

Seven Ponds Nature Center

Join us for an Autumn Birding and Fall Color Walk at Seven Ponds in Dryden. The Naturalist will discuss fall-birds, autumn wildlife and we will take a fall nature walk on the trails of this 468 acre Audubon nature preserve. We will visit the Rookery Bookstore the Michigan Bird Display and the Herb Garden plus Bird Feeding area. Wear comfortable walking shoes and dress for the weather.

Code	Day(s)	Date(s)	Time	Age
7049.300	Tu	Sep 16	10:00 am-2:00 pm	55 +

Location: Leaving the Orion Center at 10:00 am

Fee: \$23



Waldon Middle School Teacher Dan Hunter

And students began building habitats for WM in 2011

He conducted a class on building Owl Houses in 2014 in conjunction with Orion Center & Waste Management

Additional classes will be scheduled for 2015





Orion Center Pollinator Garden

Installed by community volunteers

Partial funding provided by WM



Purple Martin, Bat, & Wood Duck Houses and Plantings donated by WM to Orion Center



All habitats installed by Orion Staff. Purple Martin House cantelever-ed to help maintain it.







Single Chamber Bat House donated by WM



GM Chevy Volt Casing Multi-chamber Bat House

Chevy Volt Battery Bat House Instructions



We can work to enlist GM in hosting a bat building workshop if there is an interest.

One of two wood duck houses donated by WM installed at southeast area of Orion Center on the edge of the wetlands.



Bioswale maintenance – weeding the bioswale at the curb allows for a manicured look while allowing the bioswale to serve its intended purpose.

BEFORE weeding



AFTER weeding



Bioswales are landscape elements designed to remove silt and pollution from surface runoff water. They consist of a swaleddrainage course with gently sloped sides (less than six percent) and filled with vegetation, compost and/or riprap. The water's flow path, along with the wide and shallow ditch, is designed to maximize the time water spends in the swale, which aids the trapping of pollutants and silt. Depending upon the geometry of land available, a bioswale may have a meandering or almost straight channel alignment. Biological factors also contribute to the breakdown of certain pollutants. A common application is around parking lots, where substantial automotive pollution is collected by the paving and then flushed by rain. The bioswale, or other type of biofilter, wraps around the parking lot and treats the runoff before releasing it to the watershed or storm sewer.

Public Education Signage



Simple signage - in high traffic areas



Educational signage

Educational Materials available at the Orion Center





Learning Lyrics – The fastest way to *learn* bird songs....



Educational promotes stewardship.









Encouraging employee and community engagement!



2014 Interesting Visitors& Observations

Sandhill Cranes - summer 2014





Juvenile Bald Eagle – Late summer/fall Nov 2014



2014 Mourning Cloak Butterfly

A butterfly's tale ...

In the hot summer month of August, 2014, Waste Management's Eagle Valley Gas Tech, Adam Stough encountered a Viceroy butterfly while doing his landfill gas monitoring at the site. The butterfly landed on him while he was reading a gas well and it wouldn't fly away. Adam discovered it had a tiny white spider on its back that must have been paralyzing it. He removed the spider and took the butterfly to the Eagle Valley scale house where WM's scalehouse attendant Christine Stanczak observed it could walk all around but was unable to fly. Christine took the butterfly home where her young daughters Natalie - 8 and Emily - 4 looked on-line for how to Care for a butterfly. They learned that butterflies have tongues to eat with and prepared sugar water for it to eat. Shortly after feeding it, the butterfly regained its strength and was able to fly away.



How do you tell a Viceroy from a Monarch butterfly when they look so much alike? It's all in the details...they are very similar with a few differences in wing patterns. It's why nature can be such a great teaching tool for critical thinking and attention to detail.



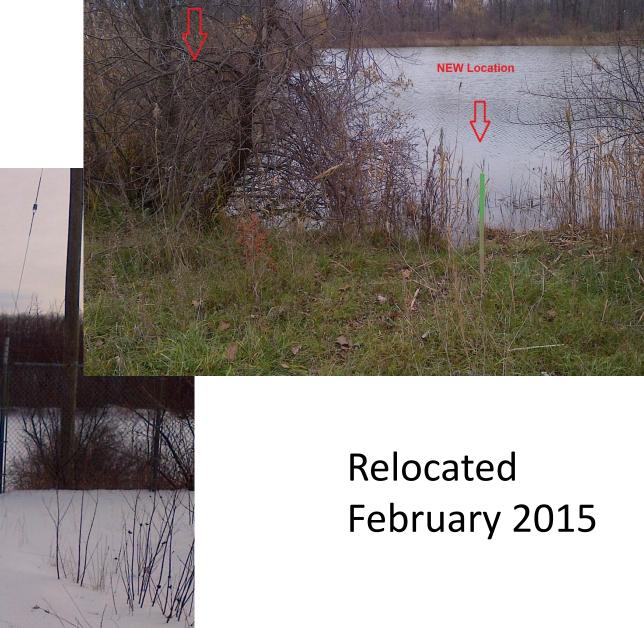
Q. Where do viceroy butterflies spend the winter?

A. Unlike monarchs, viceroys do not migrate. They spend the winter rolled up in a leaf of their host plant (willow or poplar). The larvae look like bird droppings--so who would bother them?!

- Q. At what stage of their life cycle do they overwinteras an egg, larva or adult?
- A. Viceroys overwinter as 1st or 2nd instar larvae.
- Q. When are viceroys FIRST seen in the spring where you live?
- A. The answer to this question obviously depends where you live, however, you won't see an adult viceroy until: Willow/poplar leaves emerge and are available as food for the larvae.
- The larvae develop through the remaining instars (approx. 5 days) and the chrysalis stage (at least 10 days).
- In Ontario and Minnesota, for example, entomologists say adult viceroys don't usually appear until June. However, this year could be much earlier due to early leaf-out.



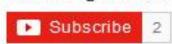
Siting new locations for Wood Duck Houses





2014 Christmas Bird Count - Oakland County, Michigan

Silent Light Nature Photography



131 views

2015 Observations & Activities





Unidentified hawk observation in Downtown Detroit





Turkey vulture - Eva

Eva's friends

We (actually Eva, the turkey vulture) had a summer visitor this past year. Clare, the wild turkey vulture would come to have lunch with Eva. Because Eva is non-flighted, she is allowed to roam around the Center when Susan is working in the area. One day when Eva was "out" the wild vultures decided to visit. Susan kept watch to keep Eva safe. The wild vultures continued to visit so Susan put food out for them. The next thing, Eva and a wild vulture were sharing a meal. Watching this interaction was really special and such enrichment for Eva! We look forward to the turkey vultures' return this Spring.



Clare, the wild turkey vulture







WHAT: Wildlife Management Team Meeting for the

WHC/Wildlife at Work Program established at Eagle Valley

WHEN: March 11th at 6:00 p.m.

WHERE: Orion Center in Orion Township, 1335 Joslyn Rd.

WHO SHOULD COME: Wildlife Management Team Members &

Community Info Meeting Members

DINNER: provided by Waste Management

Eagle Valley Recycling & Disposal Facility

RSVP's will be requested as we get closer to the date.

Have a great winter!



EAGLE VALLEY ON-GOING PROJECT PLAN FOR WHC PROGRAM

Existing Projects 2011/2012

- 1. Add additional Wood Duck Boxes
- 2. Add additional Bat Boxes
- 3. Continuous improvement to Pollinator Garden
- 4. Amend Conservation Easement around Basin C so it is easier to perform inventories
- 5. Maintain existing and expand further on Public Education Opportunities
- 6. Expand community participation opportunities in WHC Program (i.e., species inventories, nature observations, educational efforts, etc.)

others implemented that weren't

originally planned –

i.e. Orion Center

Some projects

New Projects 2011/2012

- 1. Add Blue Bird Boxes
- 2. Add Owl Box
- 3. Flower Box at Scalehouse to attract hummingbirds
- 4. Consider Installing interpretive signage
- 5. Add additional acreage to WHC program

New Projects 2013/2014

- 1. Gas Well Raptor Perchs
- 2. Apply for Corporate Lands for Learning (CLL) program
- 3. Review invasive species plan
- 4. Assess Phragmites
- 5. Work to sustainably harvest any lumber and native plantings in area of site to be developed
- 6.

New Projects 2015 - 2018

- 1. Plant wildflower/prairie/ native grasses on north and east side of landfill cover
- 2. Cooperative Weed Management in finished areas of the landfill north and east slopes
- 3. Bioswale and other interpretative signage at Orion Center
- 4. Camp Agawam Activities
- 5. Partner with Orion Oaks
- 6. Owl House
- 7. Salamander Species Inventory

All activities will be planned in conjunction with site development activities.

Some failures

All present opportunities for engagement