



Cleveland Metroparks®

# FIND YOUR PATH

Overview of Natural Resources  
activities during COVID

June 2021



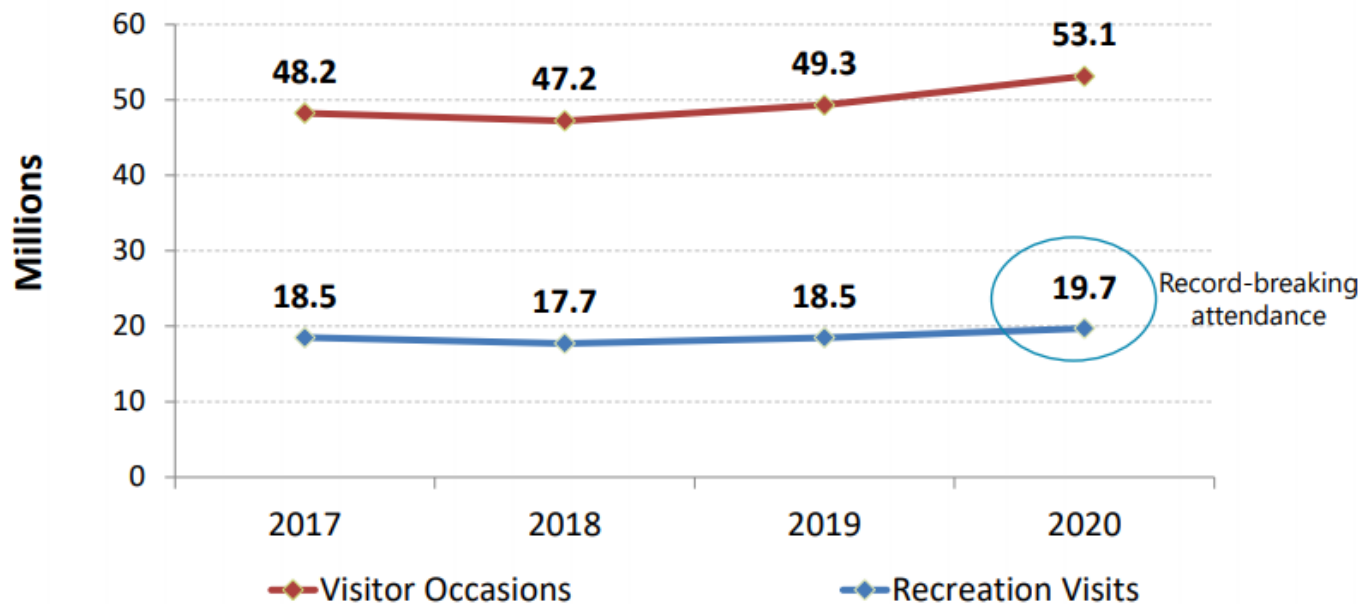
# Nature doesn't stop for a pandemic





# High park use during wet season

- **Visitor Occasions** increased by 3.8M\* and **Recreation Visits** by 1.2M





# Excess idle time





# Encroachments





# Removed unsanctioned materials / closed some bootleg trails





# Staff reductions

Operated at 58% capacity

- Assistance list
- Grant funded positions
  - Volk, Warman (FT)
  - Meranti (PT)
  - Turner, Kneitel, Newman-Caro (Variable)





# NOWcorps saved the day (ahem... year!)

Administered by Tinkers Creek Watershed Partners





# And volunteers, too!

Small groups (<10) resumed May '20

## Independent projects

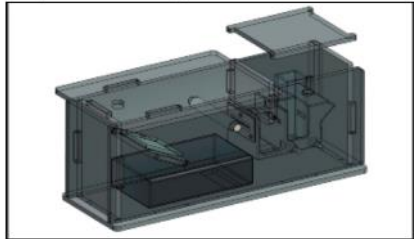
- Invasive Plant Management
- Stream Water Quality Monitoring
- Green Infrastructure Maintenance
- Administrative support





# Great Lakes One Water – Smart Citizen Science Initiative

*A movement of citizen scientists using simple technology to protect the future of Lake Erie*



EOS Spectrometer





# External funding success – Thx to CMP colleagues!

## New Funding Received – TOTAL \$1,964,292 (2020 – May 2021)

- Foster's Run – ODNR H2Ohio (\$500,000)
- Garfield Park – OEPA 319 (\$300,000)
- Climate Resilient Forest Management – Lubrizol Foundation (\$262,000)
- Beechers Brook – NEORSD (\$250,000)
- Euclid Creek Decompaction – USFS, GLRI (\$193,500)
- Aquatic Invasive Species – ODNR, GLRI (\$112,118)
- GLOW – Cleveland Foundation (\$75,000); CWA (\$10,000)
- Beech Leaf Disease - USFS (\$55,000)
- Dunham Park Decompaction – NEORSD SMRF (\$54,000)
- Ohio River Watershed – ODNR (\$40,000)
- Dunham Park Tree Planting – Cuyahoga County (\$29,030)\*
- Various Donations to Fishing Fund (\$27,148)
- R-o-W Pollinator Plantings – USFWS (\$25,000)
- Tree Plantings – First Energy (\$13,496)
- Astorhurst Trees – Charles Pack Trust (\$15,000)
- MOTUS tower – Foley Foundation (\$3,000)

*\*Tinkers Creek Watershed Partners will transfer grant to CMP*



# Outreach without going “out”

- Facebook Live
- YouTube videos
- Virtual volunteering
- College Lectures
- Emerald Necklace articles
- OPRA articles
- Fishing report



YouTube watershed volunteer program



Bonnie Park Post Restoration Tour

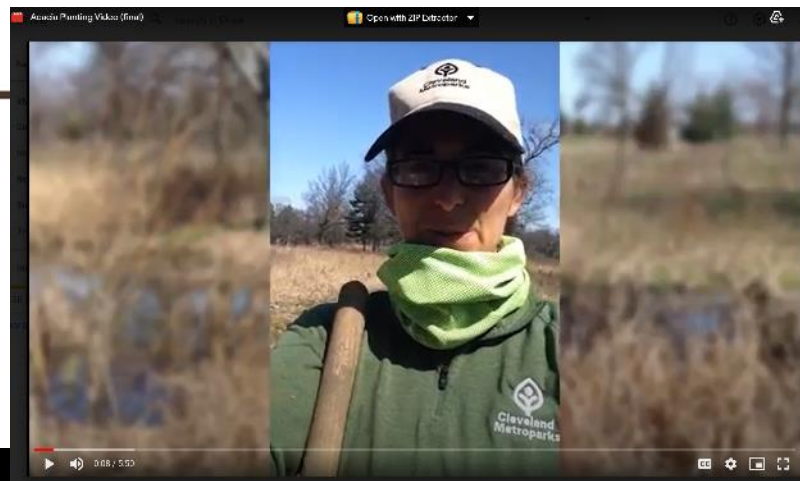
526 views · Nov 2, 2020

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October 22, 2020 · 9

Join us for today's Facebook Live where we will talk with Wildlife Ecologist Jan Cepek to learn all ...

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117 54 Comments 8.8K Views

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Michael Zosak 9:26  
We have some BIG coyotes that come out from river valley and up into the residential areas by the airport and northern Berea. Seen some canines a few years ago that I swear were coywolves, if they were not they were large German Shepard sized yotes.

Like Reply 3w  
View 1 more reply

Sherr Cleveland Metroparks 0:20  
Hi Michael, Coyotes in the Northeast are mostly



# Acquisition assistance

- Evaluate potential acquisitions
- Complete grant commitments associated with acquisition



**Ohio** Primary Headwater Habitat Field Evaluation Form  
HHEI Score (sum of metrics 1+2+3) **71**

SITE NAME/LOCATION Flycatcher Program 13-100-19.70 ST  
 SITE NUMBER 01 RIVER BASIN 13 RIVER CODE 100 DRAINAGE AREA (sq ft) 0.81  
 LENGTH OF STREAM REACH (ft) 800 LAT 41.25.681 LONG 81.709.59 RIVER MILE 19.70  
 DATE 4/3/2020 SCORER CW COMMENTS \_\_\_\_\_

NOTE: Complete All Items On This Form - Refer to "Field Evaluation Manual for Ohio's PIRWH Streams" for Instructions

STREAM CHANNEL MODIFICATIONS:  NONE / NATURAL CHANNEL  RECOVERED  RECOVERING  RECENT OR NO RECOVERY

1. SUBSTRATE (Estimate percent of every type present). Check ONLY <u>two</u> predominant substrate TYPE boxes (Max of 32). Add total number of significant substrate types found (Max of 6). Final metric score is sum of boxes A & B		HHEI Metric Points Substrate Max = 40		
TYPE	PERCENT		TYPE	PERCENT
<input type="checkbox"/> BDR SLABS [16 pts]		<input type="checkbox"/> SILT [3 pts]		
<input type="checkbox"/> BOULDER (>256 mm) [16 pts]	<u>2%</u>	<input type="checkbox"/> LEAF PACKWOODY DEBRIS [3 pts]	<u>8%</u>	
<input type="checkbox"/> BEDROCK [16 pts]		<input type="checkbox"/> FINE DETRITUS [3 pts]		
<input type="checkbox"/> COBBLE (65-256 mm) [12 pts]	<u>15%</u>	<input type="checkbox"/> CLAY or HARDPAN [0 pt]	<u>5%</u>	
<input checked="" type="checkbox"/> GRAVEL (2-64 mm) [9 pts]	<u>55%</u>	<input type="checkbox"/> MUCK [0 pts]		
<input type="checkbox"/> SAND (<2 mm) [6 pts]	<u>19%</u>	<input type="checkbox"/> ARTIFICIAL [3 pts]		
Total of Percentages of Bldr Slabs, Boulder, Cobble, Bedrock: <u>17%</u> (A)		TOTAL NUMBER OF SUBSTRATE TYPES: (B) <u>6</u>		Substrate Max = 40 <b>31</b> A + B
SCORE OF TWO MOST PREDOMINATE SUBSTRATE TYPES: <u>15</u>				
2. Maximum Pool Depth (Measure the maximum pool depth within the 61 meter (200 feet) evaluation reach at the time of evaluation. Avoid plunge pools from road culverts or storm water pipes). (Check ONLY <u>one</u> box)		Pool Depth Max = 30		
<input checked="" type="checkbox"/> > 30 centimeters [20 pts]	<input type="checkbox"/> 5 cm - 10 cm [16 pts]	<b>30</b>		
<input type="checkbox"/> > 22.5 - 30 cm [30 pts]	<input type="checkbox"/> < 5 cm [6 pts]			
<input type="checkbox"/> > 10 - 22.5 cm [28 pts]	<input type="checkbox"/> NO WATER OR MOIST CHANNEL [0 pts]			
COMMENT(S) _____		MAXIMUM POOL DEPTH (centimeters): <u>45</u>		
3. BANK FULL WIDTH (Measured as the average of 3 - 4 measurements). (Check ONLY <u>one</u> box)		Bankfull Width Max=30		
<input checked="" type="checkbox"/> > 4.0 meters (>13') [30 pts]	<input type="checkbox"/> > 1.0 m - 1.5 m (> 3'3" - 4'8") [15 pts]	<b>30</b>		
<input type="checkbox"/> > 3.0 m - 4.0 m (> 9'7" - 13') [25 pts]	<input type="checkbox"/> ≤ 1.0 m (≤ 3'3") [5 pts]			
<input type="checkbox"/> > 1.5 m - 3.0 m (> 4'8" - 9'7") [20 pts]				
COMMENT(S) _____		AVERAGE BANKFULL WIDTH (meters): <u>4.02</u>		

This information must also be completed



# “Typical” NR management tasks

## Fisheries

- Transferred 387 fish of 13 species into restored portion of Euclid Creek at Acacia
- Stocked 12,400 lbs of rainbow trout & 3,600 lbs of channel catfish
- Installed fish cleaning station at Gordon Park
- Removed 461 lbs of carp from Lake Isaac
- Received Innovation in Lake Management award – Mike Durkalec, recipient





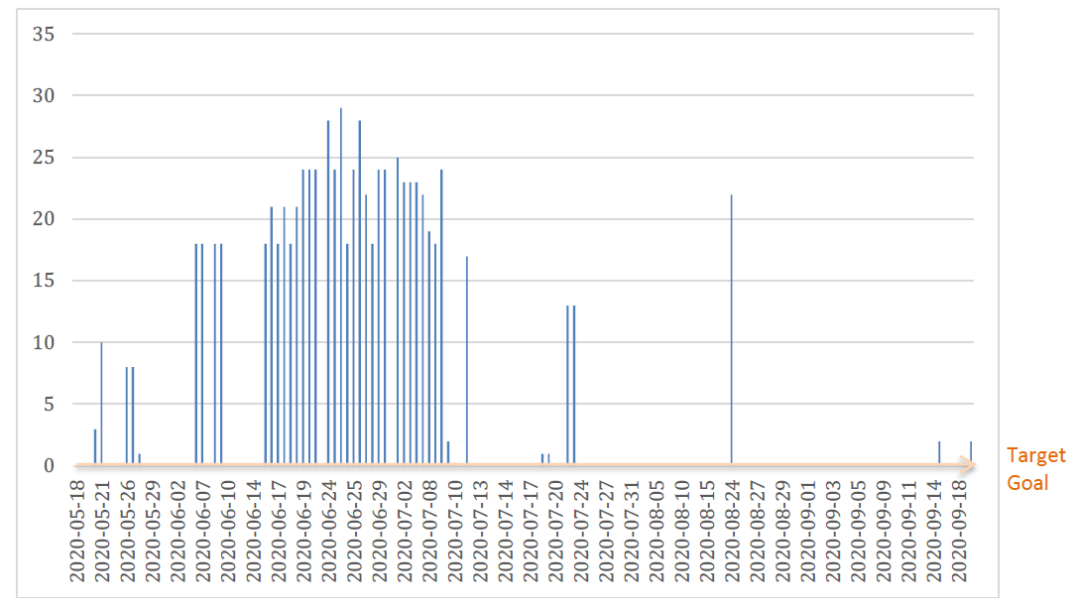
# “Typical” NR management tasks

## Wildlife management

- 5-yr contract with Ohio Geese Control
- Completed successful deer management program
- Responded to 10-30 wildlife inquiries per month
- Responded to 40+ wildlife incidents
- Breeding bird & bat acoustic surveys
- Amphibian trapping



Astorhurst Geese Population

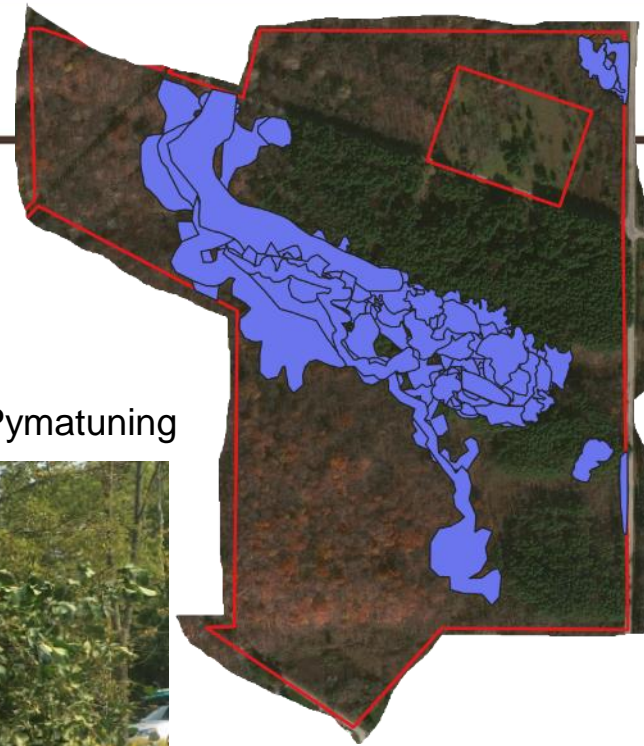




# “Typical” NR management tasks

## Invasive plant management program

- New multi-year, multi-site contract
- Treated >355 ac.
- Provided assistance to Medina Park District
- Surveyed for aquatic invasive species across Lake Erie & Pymatuning



### DAILY REPORTING

DATE	START TIME - END TIME	TRAVEL (HOURS)	TIME OFF (HOURS)	MILEAGE	EMPLOYEES	WEATHER TEMP/WIND/SKYCOVER	HERBICIDE SOLUTION(S) *	AMOUNT APPLIED (GAL)	ACREAGE (DENSITY)	NOTES
8/19/20	0700-1300	4	0.5	160	AJ, DF, JH	75/no wind/clear	GA3, 1T, 0.5N	80	5	block completed



# “Typical” NR management tasks

## Restoration activities

- Astorhurst wetland (BE)
- Browse garden (BR)
- Bonnie Park dam removal (MSR)
- Chalet stormwater retrofit (MSR)
- Chagrin River @ Jackson Field (SC)
- Various: Meadow mgt, Native plant installation

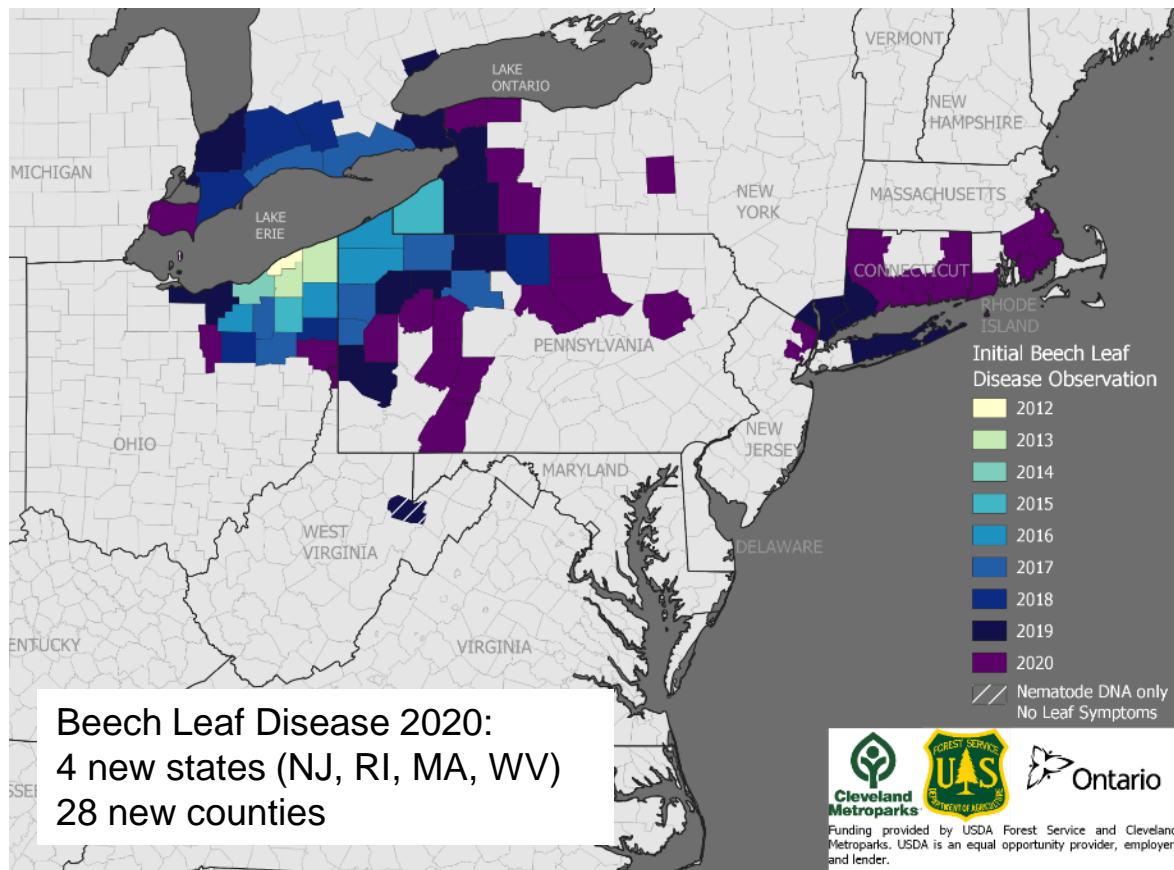
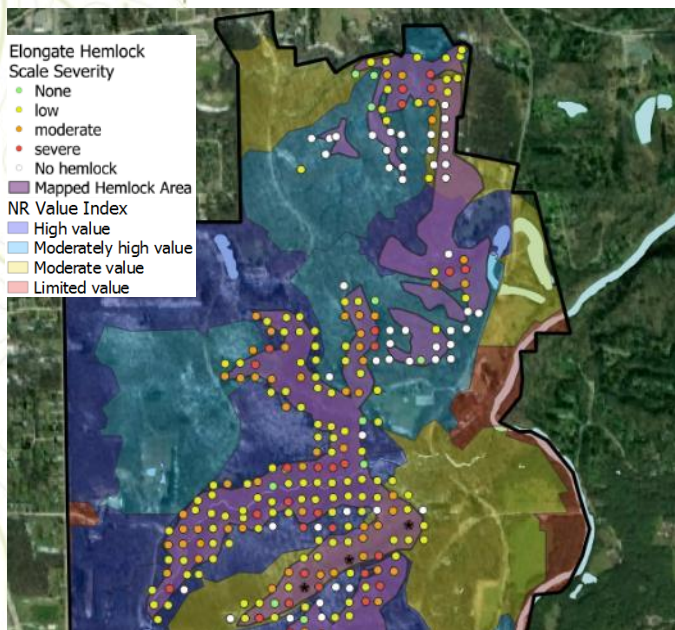




# “Typical” NR research & monitoring tasks

## Forest Pests & Pathogens

- Beech Leaf Disease – new app!
- Elongate Hemlock Scale
- Emerald Ash Borer
- Oak Wilt
- Spotted Lanternfly



Beech Leaf Disease 2020:  
4 new states (NJ, RI, MA, WV)  
28 new counties



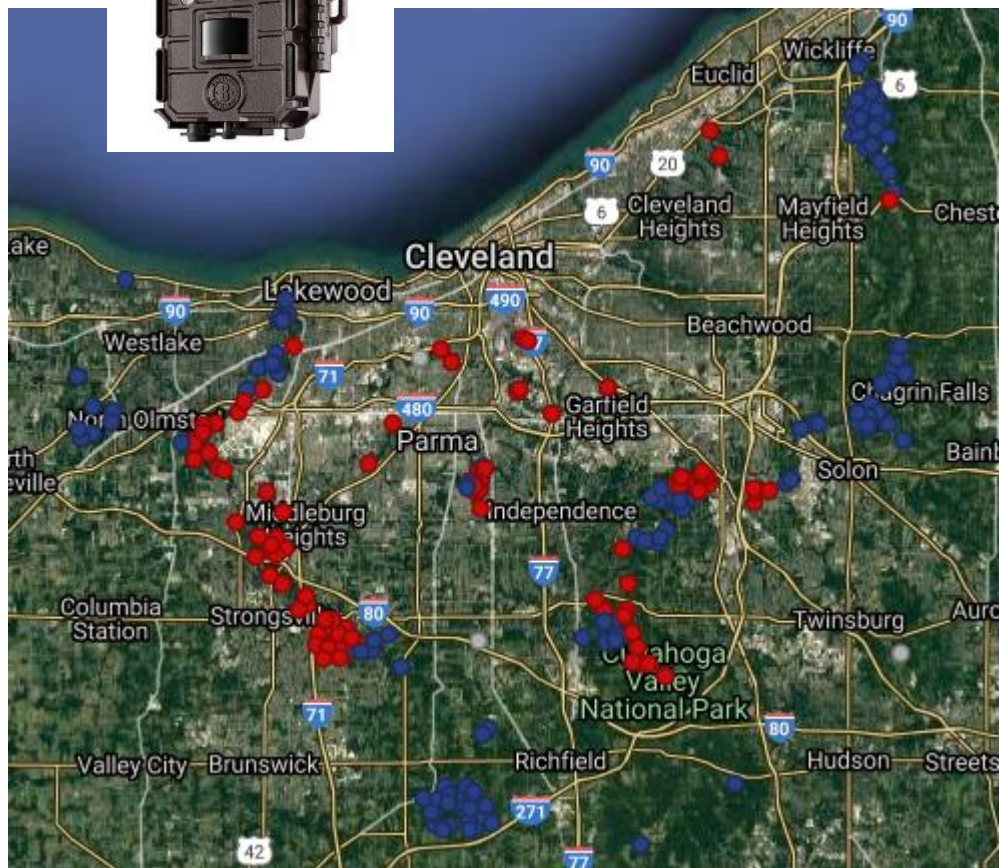
# “Typical” NR research & monitoring tasks

## Wildlife cameras

- Focus on Wildlife (206)
- Rural (14)
- Supplemental Deer Mgt (10)
- South Chagrin Forest Mgt (6)
- West Creek Trails (10)
- 50 volunteers; 3,553 hours



Bushnell M BW1134 41°F 5°C ● 12-10-2015 07:36:38

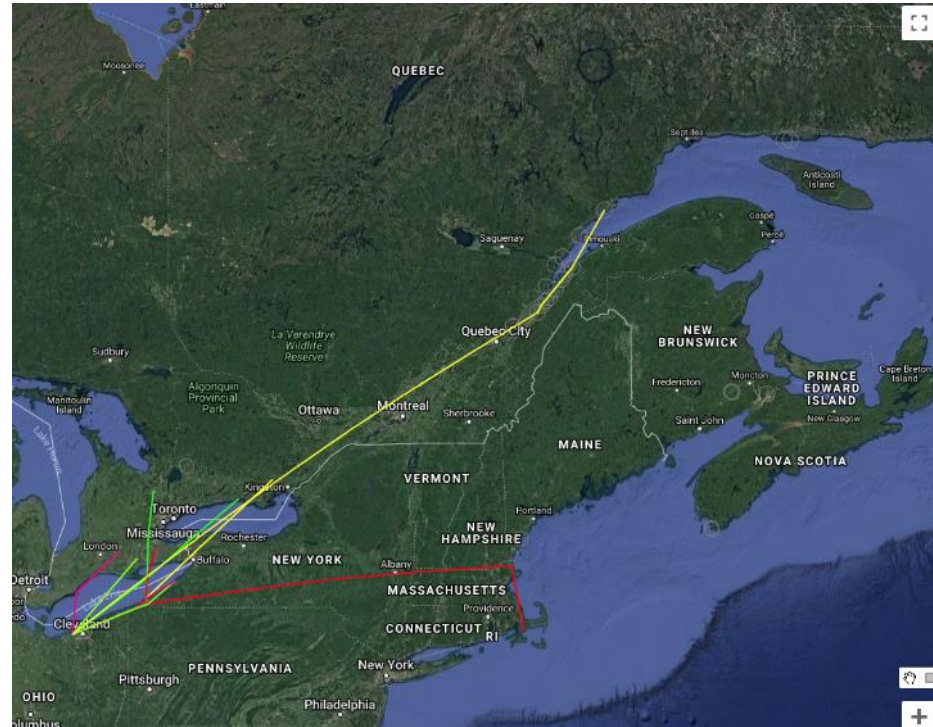




# “Typical” NR research & monitoring tasks

## Birds

- Motus towers



Back to fixed size

0 30 seconds

Starts: 01/23/2018

Showing: 10/18/2018

Finishes: 10/18/2018

0 # of days before tracks disappear (0 for new)

Colour by species

- Gray Catbird
- Swainson's Thrush
- Magnolia Warbler
- Northern Waterthrush
- White-throated Sparrow
- Ovenbird
- American Woodcock
- American Redstart
- Cedar Waxwing
- Wood Thrush
- Yellow-bellied Sapsucker

Colour by project

- Powdermill Nature Reserve

	NW	SE
Lat.	58.73770	4.36459
Long.	-93.83010	-66.73660

Use the rectangle drawing control (lower-right to change the default bounds.

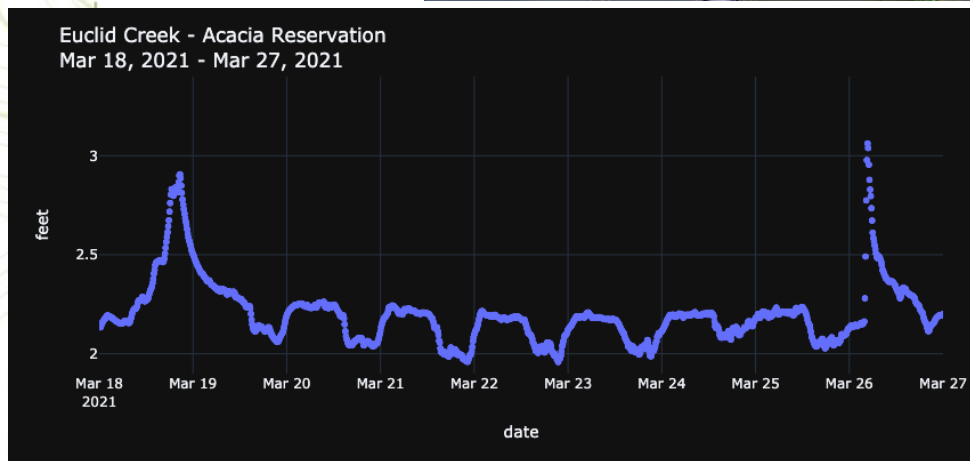
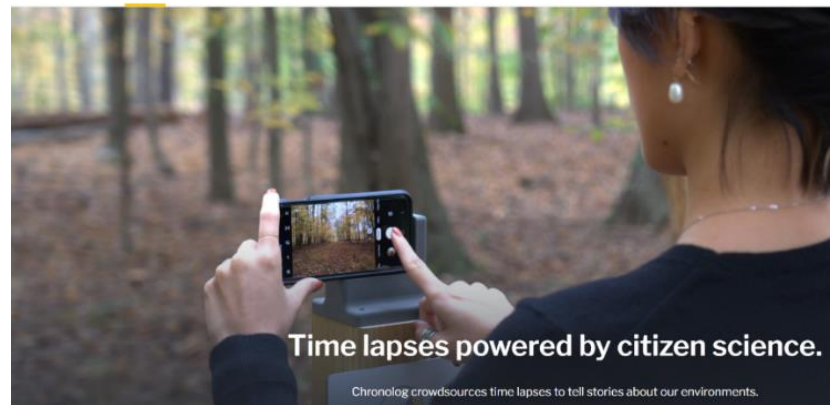


# New NR research & monitoring initiatives

New Chronolog stations  
Hyfi sensors



chronolog Overview Features Mission





# Rare, uncommon or plants of interest



Lovely Shadbush  
*Amelanchier amabilis*



American chestnut  
*Castanea dentata*



Rough hawthorn  
*Craetagus scabrida*



# Rare or uncommon wildlife

From top left, clockwise:



**Piping plover**

*Charadrius melodus*

**Henslow's sparrow**

*Ammodramus henslowii*

**Red salamander**

*Pseudotriton ruber*

**West Virginia white**

*Pieris virginiensis*

**Red-bellied snake**

*Storeria occipitomaculata*





# Coming soon...

- Host NR Research & Management Symposium – Dec. 1, 2021
- Host conference - Midwest Society of Ecological Restoration
- Offer competitive research & monitoring small grant program
- Climate resilient forest announcement
- Decommission & rehabilitation of trails at Lagoon picnic area / protection of rare species
- New deer exclosures – Garfield Park, West Creek
- Pavement removals & tree plantings – Euclid Creek middle school, Trolley Turn, Dunham Park
- Johnsons Creek culvert replacement & restoration
- Garfield Park pond rehabilitation & stream restoration
- Shoreline repair @ Wendy Park
-