



# TIME TO EXPLORE

Cleveland Metroparks

Conservation Planning  
West Virginia White  
Butterfly

# West Virginia White Butterfly

## Hinckley Reservation

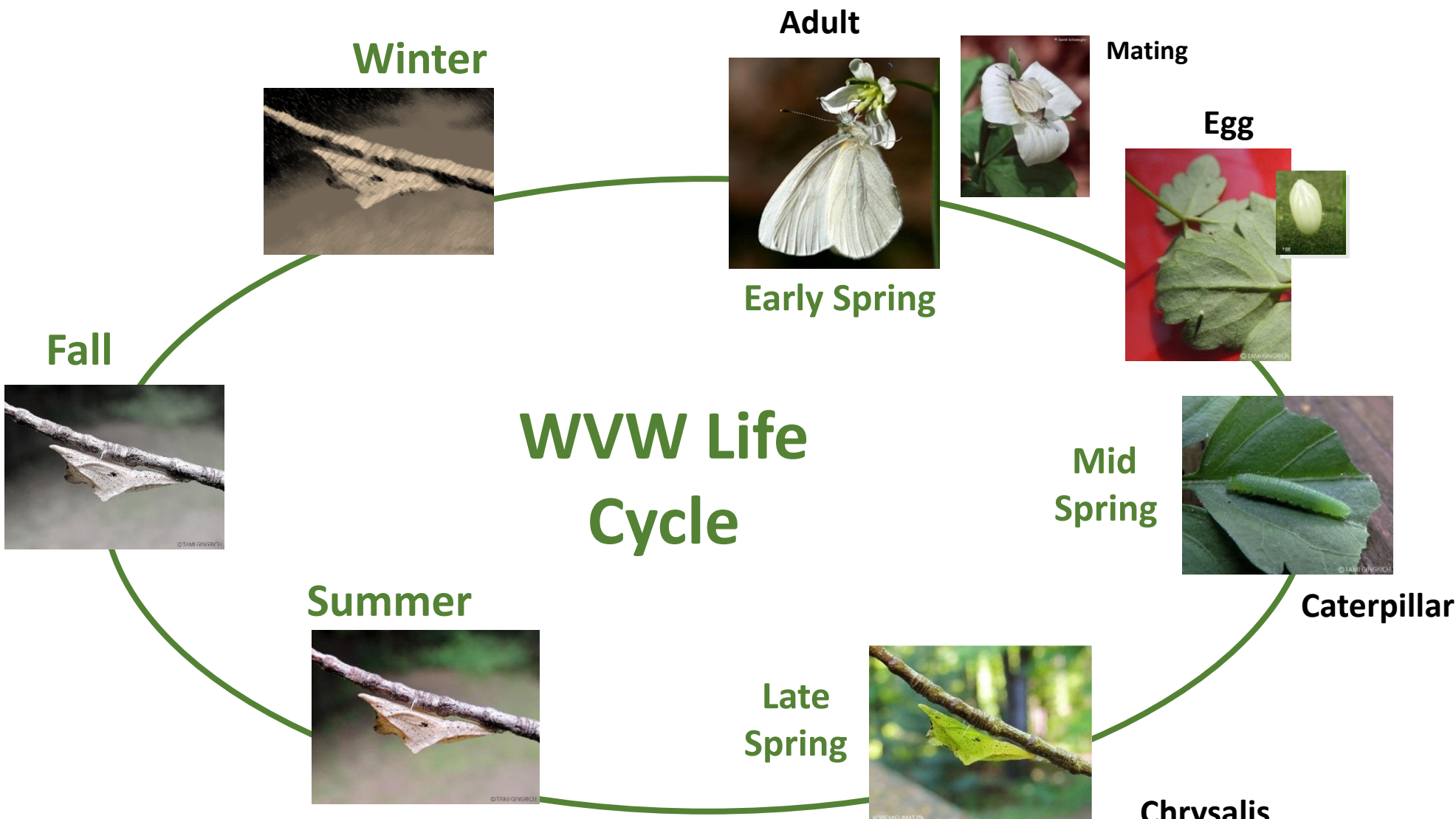


## Lost populations

- A- 1800-1900s:  
Land clearing/farming. . .**
  
- B- Mid 1900s:  
Deer browse and/or Gypsy  
moth spraying:  
Brecksville, Bedford Reservations (?)  
North Chagrin Reservation**
  
- C- Late 1900s & early 2000s:  
Garlic mustard infestations**



# WVW Life Cycle



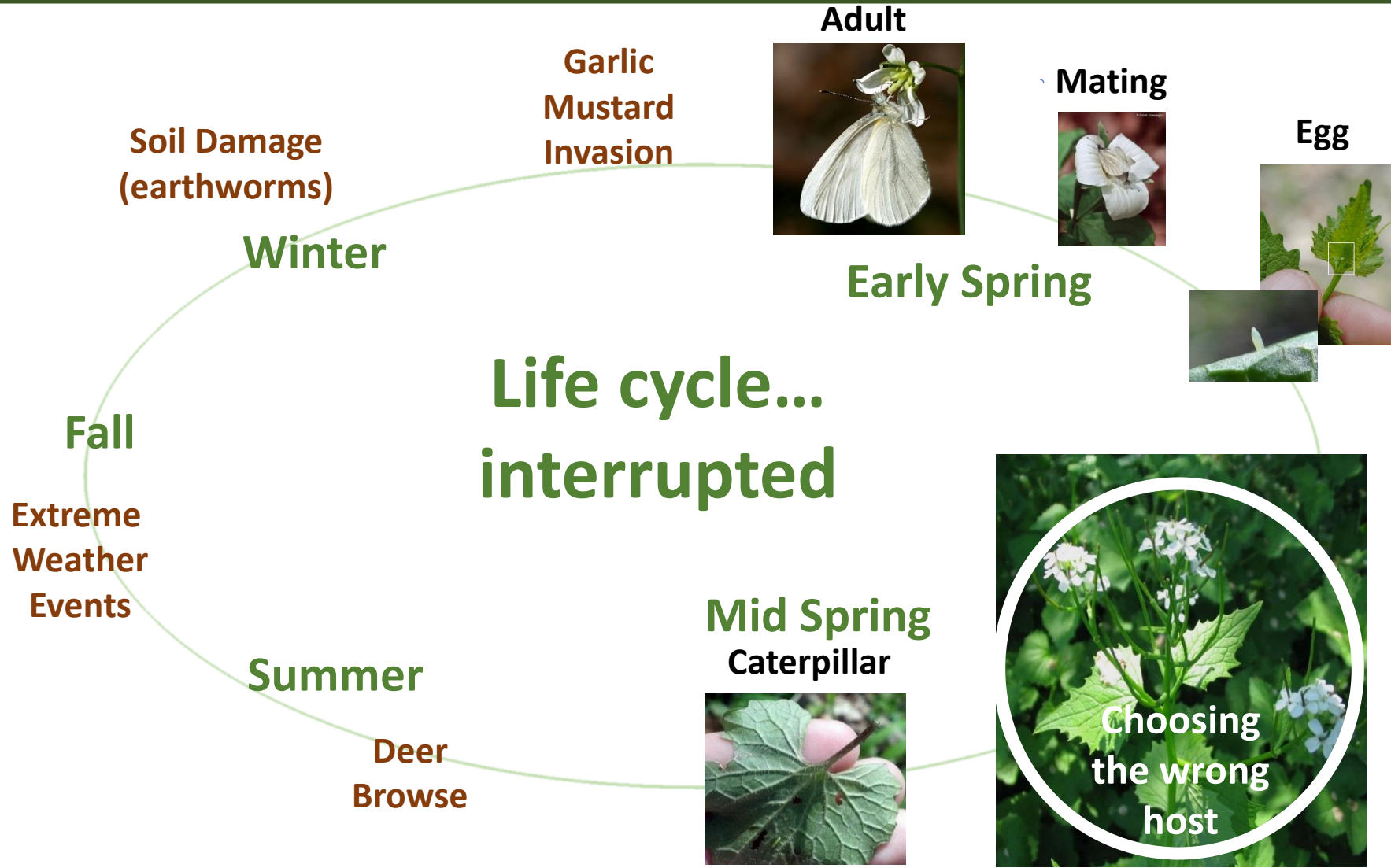


←  
**Main native  
host:  
Two-leaved  
toothwort**

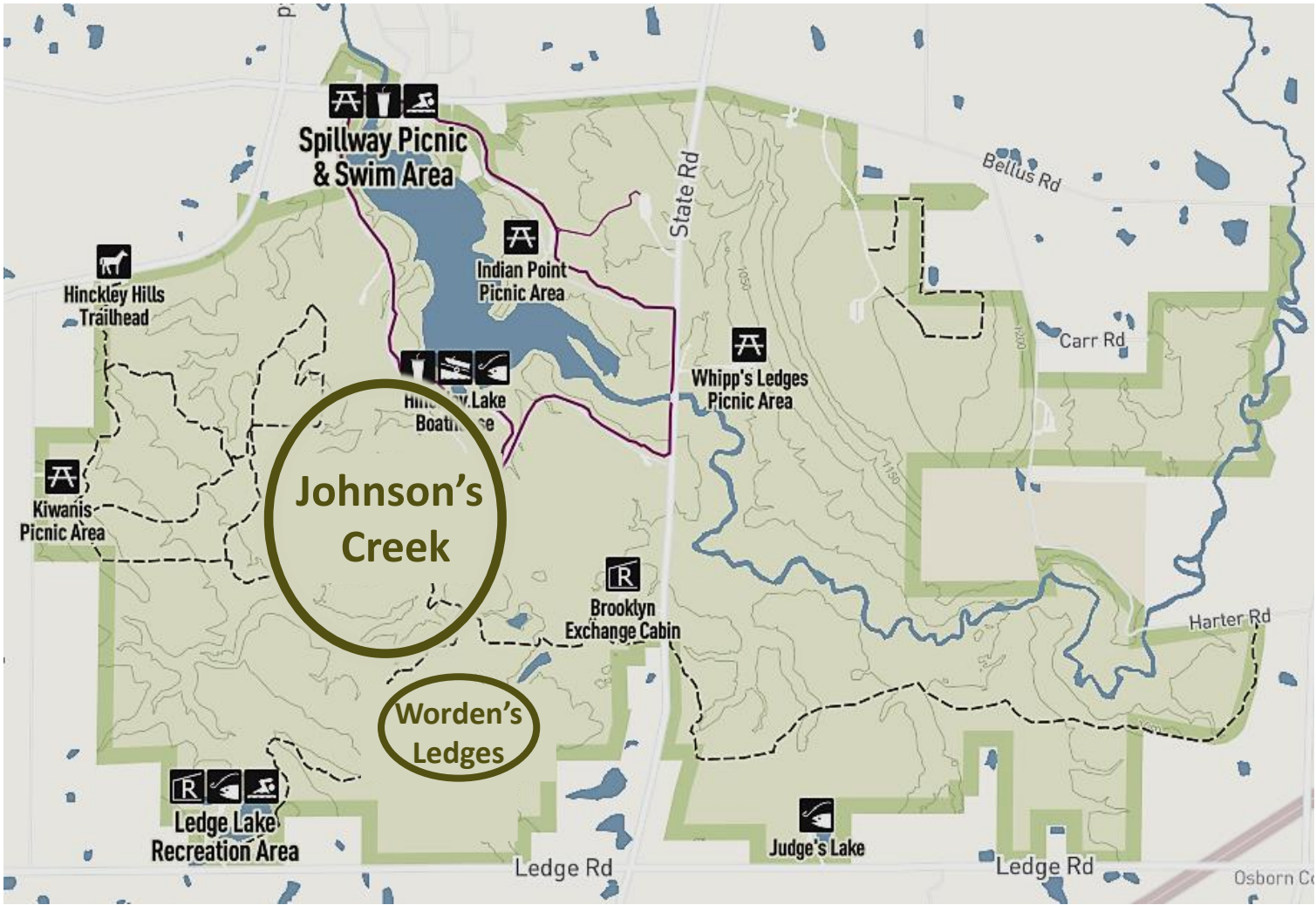
**Preferred by  
female:  
Garlic mustard** ↓



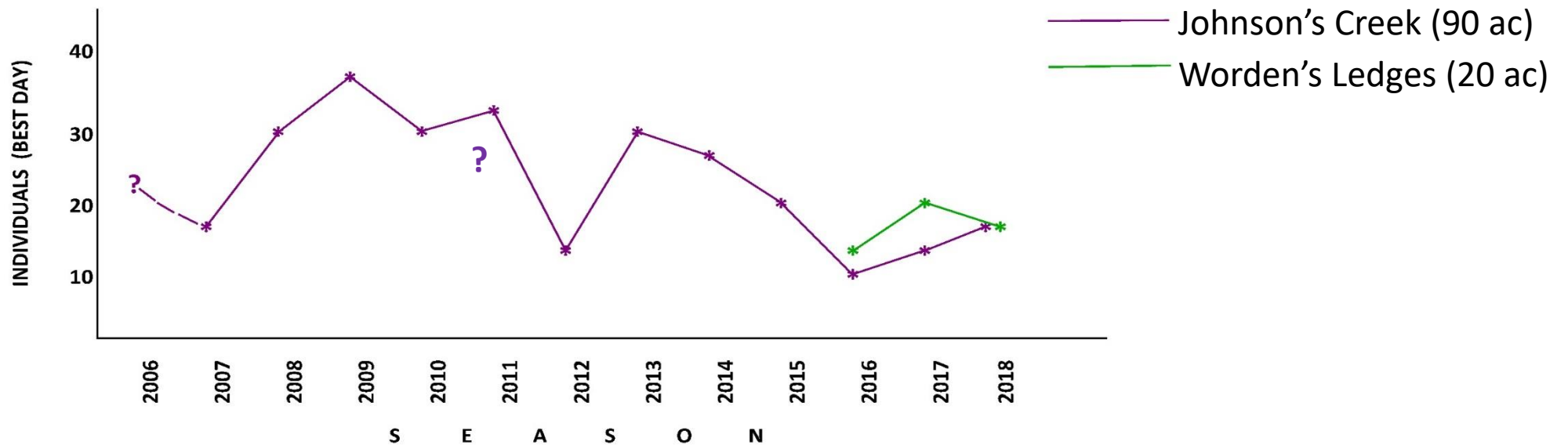
# Life cycle... interrupted



# Hinckley Reservation



# West Virginia White Butterfly in Hinckley Reservation Yearly Variation





**LEAP Species of Concern**  
Information from *Naturalist:*  
Johnson's Creek Valley

**SURVEYS/ SITE EVALUATION**  
**INTENSIVE MAPPING**

**Individual volunteer**  
**involvement**



Yearly (seasonal) site stewardship →

2006-07

2010

20017-18

## West Virginia White Butterfly Stewardship in Hinckley Reservation Time Line

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Individual volunteer  
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**IPM Intervention**  
Information from Naturalist:  
Worden's Ledges



Yearly (seasonal) site stewardship →

2006-07

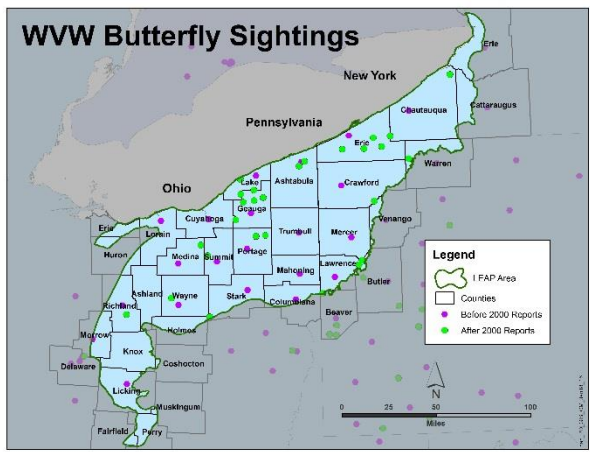
2010

2017-18

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*SURVEYS/ SITE EVALUATION  
INTENSIVE MAPPING*



*REGIONAL INTEGRATION  
REGIONAL MAPPING*

*Stream Restoration  
Trail Reclassification  
**WVP STEWARDSHIP***

**Yearly (seasonal) site stewardship →**

**Yearly (seasonal) site stewardship →**

**2006-07**

**2010**

**20017-18**

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Time Line**

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# West Virginia White Butterfly Stewardship in Hinckley Reservation Time Line



**Thank you!**

**Questions?**