

# TIME TO EXPLORE

Cleveland Metroparks

## Beech Leaf Disease: Progress & Future

May 17, 2018





# Stress Factors on Forests

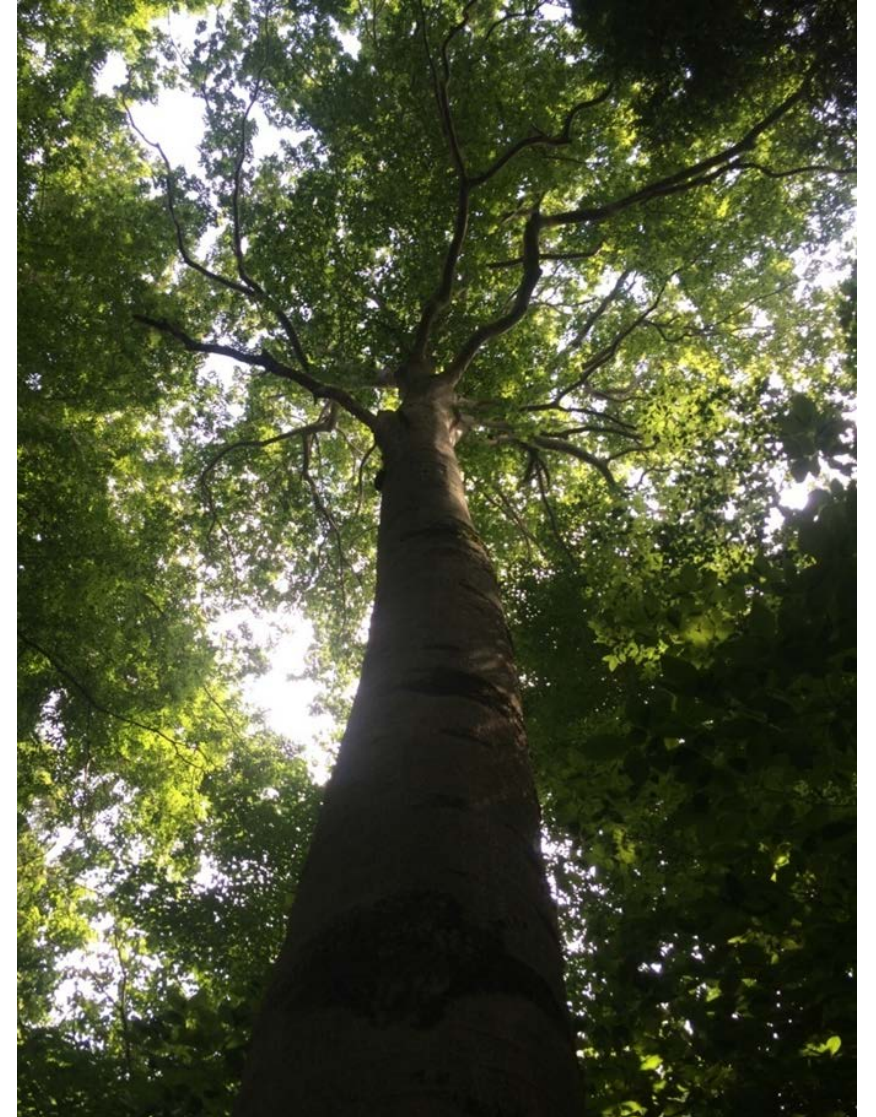
- Land use (farms, roads, trails, recreation)
- Overabundant deer
- Urban sprawl = impervious surface (stormwater)
- Invasive, exotic species
  - Plants & animals
  - Exotic forest pests (EAB, HWA, ALB, Gypsy moth, and ??)





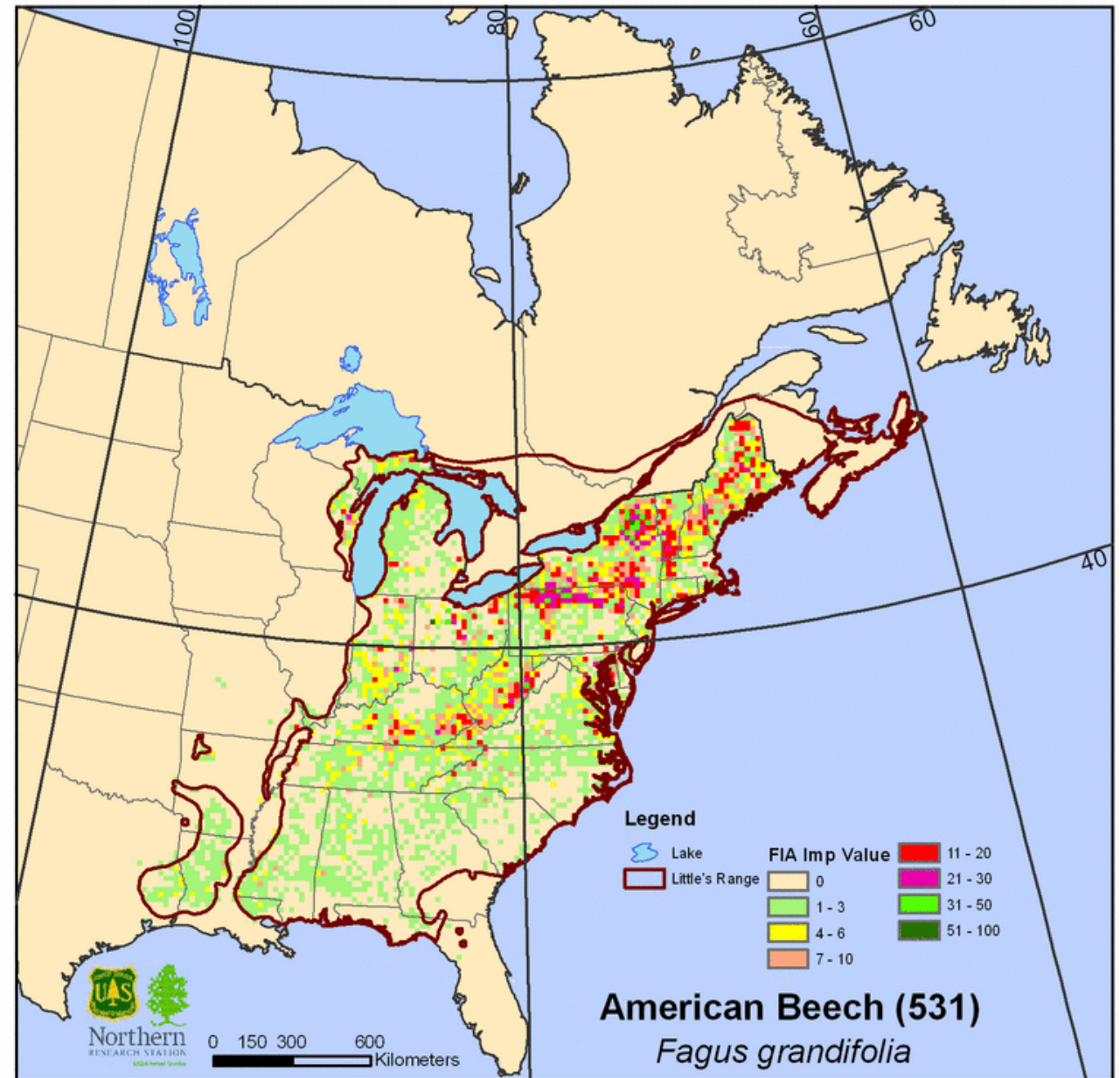
# Beech Leaf “Disease”

- History
- Current status
- Future



# Value

- Beechnuts – fall food source
- Dense wood (turning, flooring, fuel)
- Long lived (300+)
- Highest N in leaves – forest soil







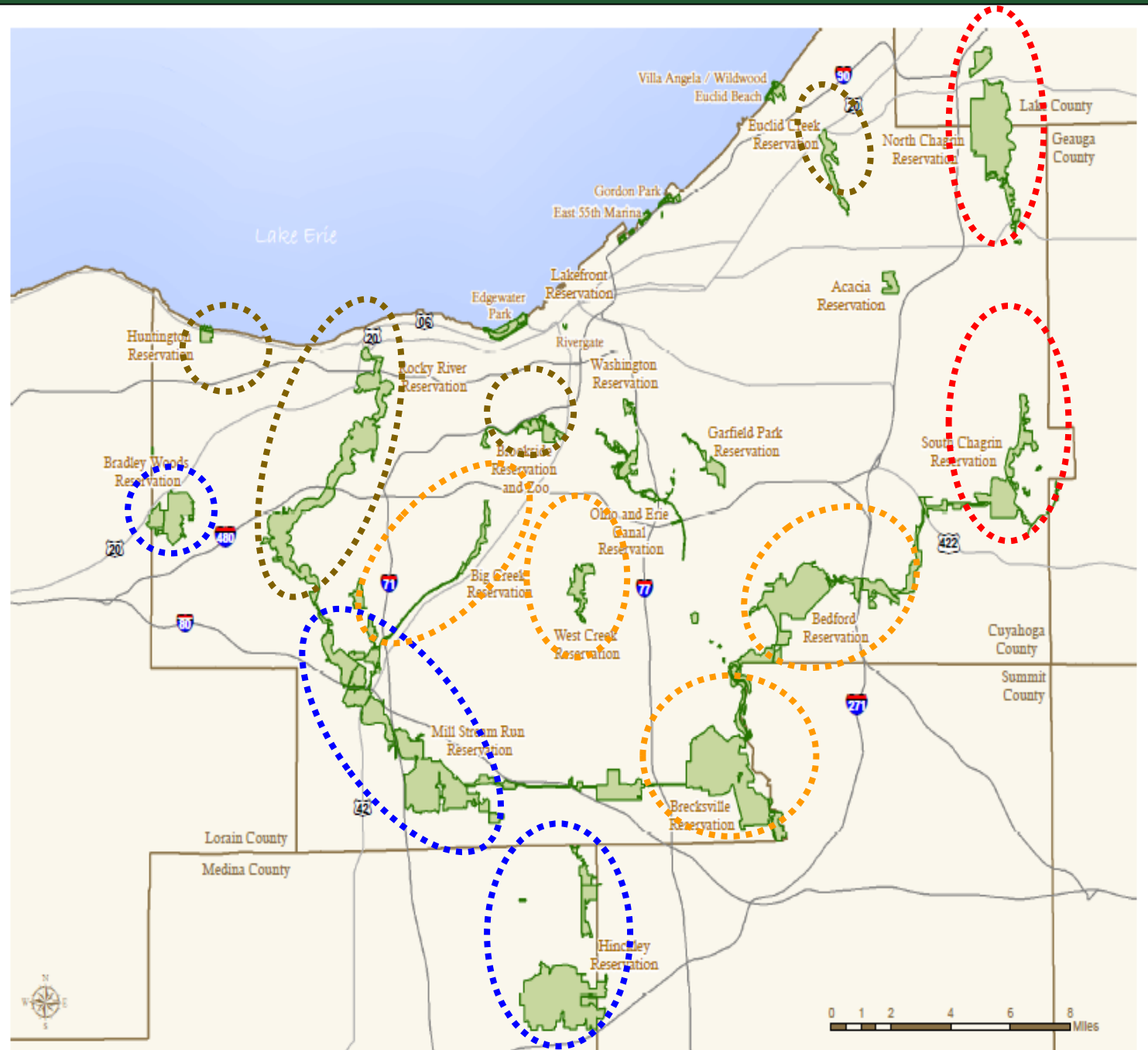




# PCAP Monitoring Reservations

## Reservations

-  2014
-  2015
-  2016
-  2017





# More than a leaf disease



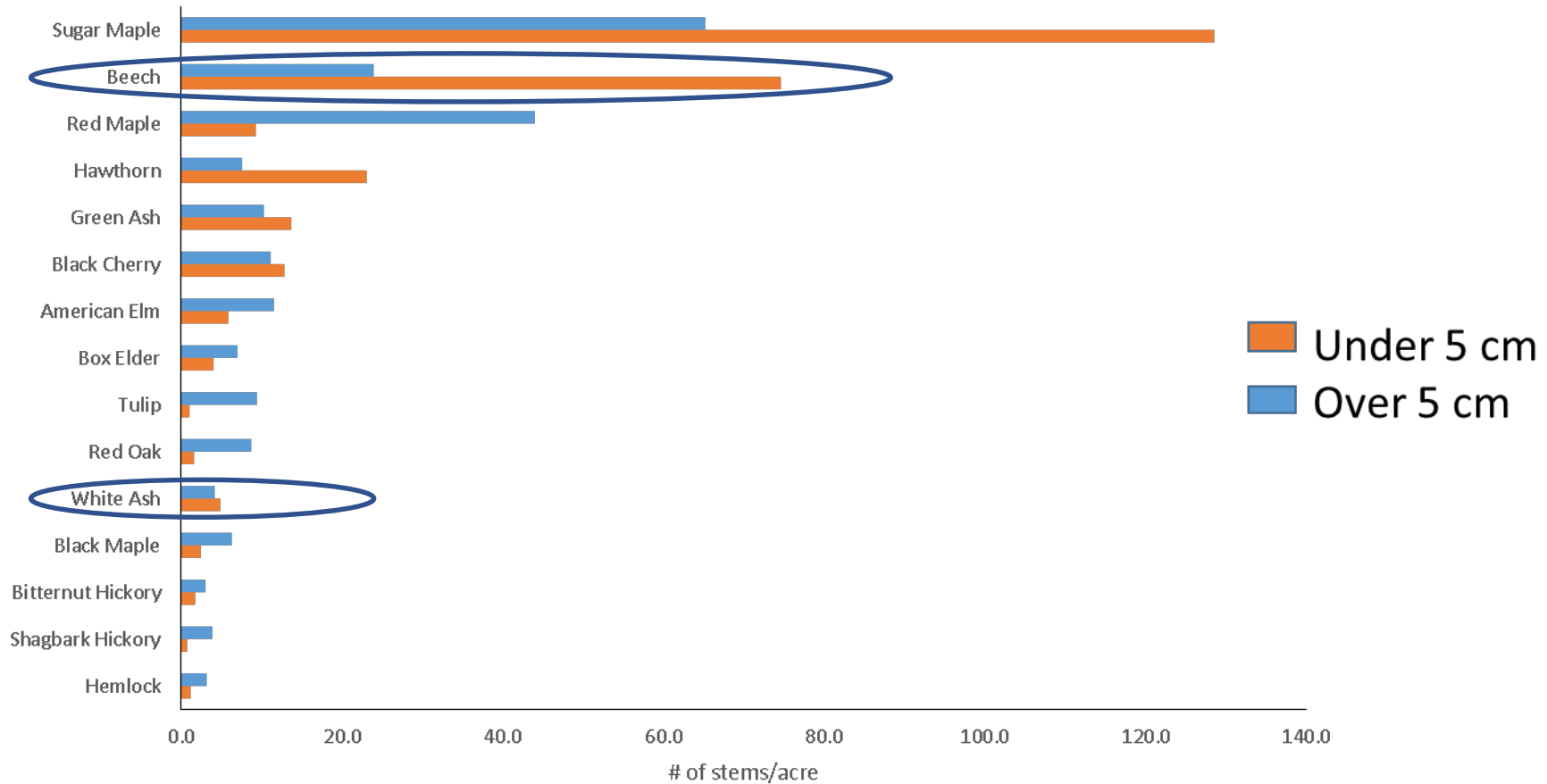
2011



2016

# Most Common Tree Species

Top 15 Tree Species





# Current Status

Ongoing: season symptom progression, stand & geographic spread, test treatments, causal agent (Holden, OSU)



# BLD Workshop, May 2-3<sup>rd</sup> 2018

53 attendees (+ 11 remote)

## RECOGNITION OF ISSUE!

- USFS, OMNRF, DNR (OH, NY, PA, IN, WI, NJ, NH), NRCS, APHIS PPQ
- “Frankly, I’m a little

embarrassed that we haven’t taken a lead in this”





# Future

Tentative approval for  
\$155,176 (\$85,176 for CM)  
from USDA Forest Service

- Regional monitoring
- Continue spread models
- Causal agent (nematode? virus?)



**DR. CONNIE HAUSMAN**  
TAKING  
**TIME TO**  
**EXPLORE**  
Cleveland Metroparks

