Analyzing tree damage from August 2020 Derecho storm in Chicago
By Annalise Nordgren

Research Questions:
1) Can virtual imagery be used to detect obvious tree defects that may lead to storm failure?
2) Can virtual imagery help with high-level maintenance prioritization to minimize tree loss?
3) What species and size of trees were lost in Northern neighborhoods of Chicago during Derecho storm?

On-the-ground Field Survey (n=840):
• Nov. 12th – Dec. 22nd
• 16 total transects (7 EW, 9 NS)
• Record visible structural and biological defects & storm damage

Street-level virtual Survey:
• Feb. 12th – Present
• Treetective inventory tool
On-the-ground field inventory

Treective inventory
Preliminary Field Data Results

*Complete damage rating of all entries. 31% (260) received storm damage, 23% (192) received crown damage.

Damage Recorded (n=260)

PERCENT CROWN LOST (N=192)

Genus (n=840)

Questions?
- [www.lufa-depaul.org/virtualinventory](http://www.lufa-depaul.org/virtualinventory)
- Annalise.Nordgren.2@gmail.com

Next steps:
- Complete virtual inventory (about 250 more trees)
- Analyze, analyze, and analyze!

感激！

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