

East Providence Street Tree Inventory Update

RIDEM

MONDAY 10/2/23









CNUC Team























Project Background & Steps

- Background:
 - Street Tree Inventory Data Collected in 2021
 - Volunteers and College Intern
 - 6,376 Street Trees Identified
- Current Project Steps
 - Data Cleanup
 - 2. Groundtruthing
 - 3. Tree Risk Assessments
 - 4. Recommendations & Analysis

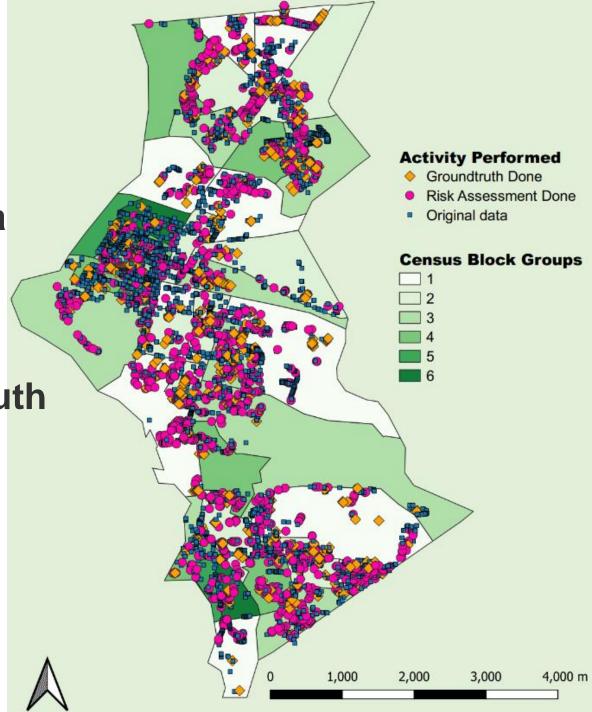


Step 1: Data Cleanup

- Missing Data
- Incorrect Data
- Improbable Data

483 Groundtruth

1,698 RiskAssessment



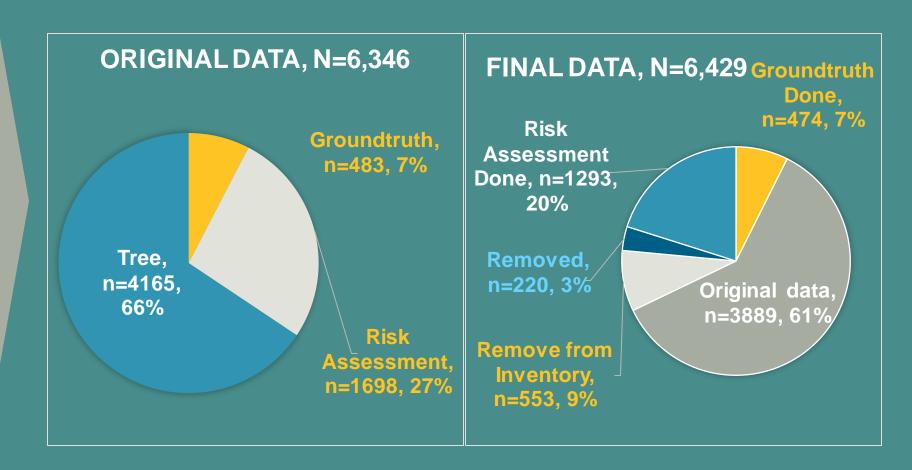


- Standard Equipment
 - Software
 - DBH Tape
 - PPE/Vehicle/Phone
- Additional Equipment
 - Rangefinder
 - Mallet
 - Probe



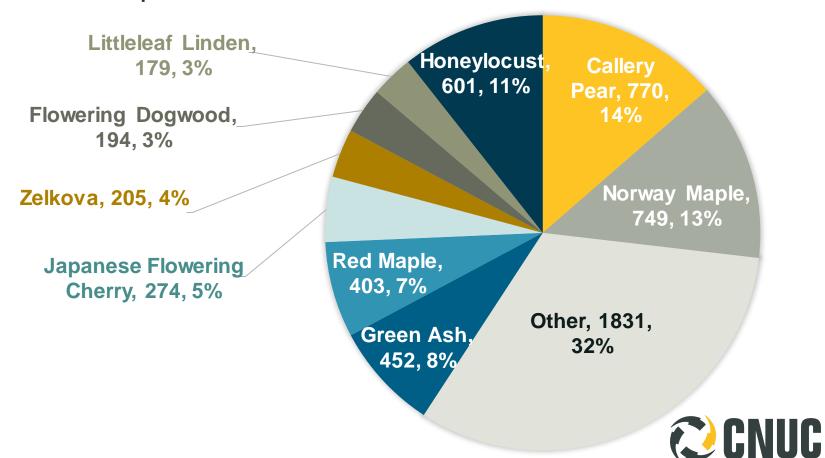








- Species Diversity
 - 95 Species Total



Ash Trees

monitor, 1, 1%

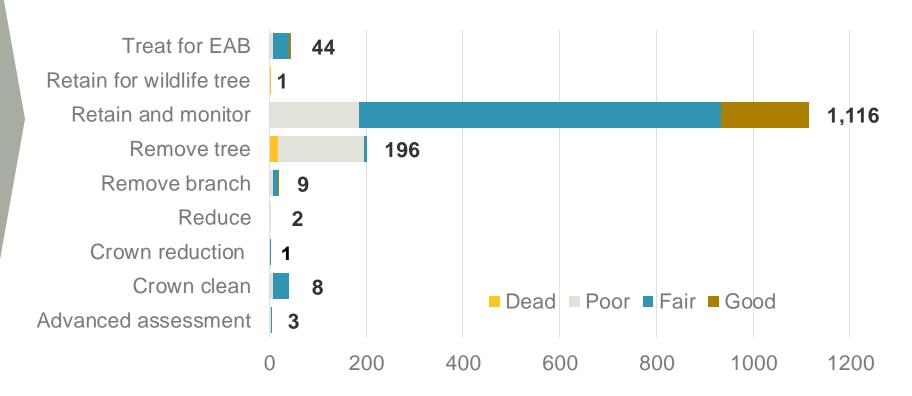
91 surveyed



location, eventual decline, 12, 13%



- Risk Tree Management
 - n=1,433 Trees





GIS Software & Training







i-Tree Eco Analysis

- Number of trees: 5,656
- Tree cover: 81.43 acres
- Pollution removal: 2.362 tons/year (\$27.3 thousand/year)
- Carbon storage: 4.383 thousand tons (\$748 thousand)
- Carbon sequestration: 77.21 tons (\$13.2 thousand/year)
- Oxygen production: 205.9 tons/year
- Avoided Runoff: 1.215 million gallons/year (\$10.9 thousand/year)
- Replacement value: \$16.8 million



Grow the Urban Forest







Questions?

