Its All About the data
The Power of a Story
Forest Inventory and Analysis (FIA): Mission

FIA reports on status and trends in:

- Forest area and location
- Species, size, and health of trees
- Total tree growth, mortality, and removals by harvest
- Wood production and utilization rates by various products
- Social Views Regarding Urban Greenspace Owners (Survey)
Some Trees Fell Through the Gaps
Why FIA and Urban?

- 34% of the MN is forested
- 12 billion trees on MN forest land
- Aspen is most Numerous type

- 1.1 billion Ash trees > 1” DBH
- Make up 8% of all MN trees

- How is our urban Ash resource?
- What is its distribution?
- How is it changing?
A Tree is a Tree

Gary Halvorson, Oregon State Archives [Attribution]

Ryan Hagerty [Public domain]
The Power of a Story – FIA teams with i-Tree

The Nation’s *Urban* Forest Census
Urban Forest Inventory & Analysis (UFIA)

Strategic level long-term monitoring system

- Functions across rural and urban ecosystems
- Operational on public and private lands
- Annualized data collection
UFIA: Sample 68 Million Acres & 100 Cities
UFIA 2019: 35 Cities - 24 States w/ 15 Statewide
Communicating the Story
Communicating the Story
National in Scope, Local in Relevance

Rebekah Zehnder, Texas A&M Forest Service / FS Forest Inventory & Analysis

MY CITY'S TREES
BRINGING THE NATION'S FOREST CENSUS TO URBAN AREAS
OPEN APPLICATION
Example 1: Potential EAB impact on stormwater runoff in Austin
MY CITY'S TREES

CITY: Austin | THEME: Watershed | CLASSES: 2/5

MY CITY

Austin

195,223 ACRES
65%

126,009 ACRES
AREA

790,390 PEOPLE
77%

611,432 PEOPLE
POPULATION

206 PLOTS
65%

133 PLOTS

MY AREA

Watershed

INVENTORY STATISTICS

COUNT

CARBON

VALUE

LEAVES

ENERGY

RUNOFF

POLLUTION

HEALTH

Reduction in surface water runoff

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>MILLION CUBIC FEET PER YEAR</th>
<th>PERCENT</th>
<th>CUBIC FEET PER YEAR PER PERSON</th>
</tr>
</thead>
<tbody>
<tr>
<td>cedar elm</td>
<td>6.2</td>
<td>21%</td>
<td>10.1</td>
</tr>
<tr>
<td>live oak</td>
<td>4.2</td>
<td>15%</td>
<td>6.9</td>
</tr>
<tr>
<td>sugarberry</td>
<td>3.9</td>
<td>13%</td>
<td>6.3</td>
</tr>
<tr>
<td>51 more</td>
<td>14.8</td>
<td>51%</td>
<td>24.2</td>
</tr>
<tr>
<td>All</td>
<td>29.1</td>
<td>100%</td>
<td>47.6</td>
</tr>
</tbody>
</table>

MY CITY: 65.0 MILLION CUBIC FEET PER YEAR

MY AREA: 29.1 MILLION CUBIC FEET PER YEAR

Generate Report
Ash species account for 8.9% of the total runoff avoided in the area. Close to a quarter of the ash runoff reduction is on public land.
Who is the Story For?

How To Plumbing
## Austin’s Urban Forest 2014

Table 17.—Potential risk to trees by insect or disease, Austin, 2014

<table>
<thead>
<tr>
<th>Code</th>
<th>Scientific name</th>
<th>Common name</th>
<th>Trees at risk</th>
<th>As proportion of all trees</th>
<th>Compensatory value $ millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALB</td>
<td><em>Anoplophora glabripennis</em></td>
<td>Asian longhorned beetle</td>
<td>6,214,000</td>
<td>19.1</td>
<td>2,121</td>
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<tr>
<td>DED</td>
<td><em>Ophiostoma novo-ulmi</em></td>
<td>Dutch elm disease</td>
<td>4,804,000</td>
<td>14.8</td>
<td>1,583</td>
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<tr>
<td>GM</td>
<td><em>Lymantria dispar</em></td>
<td>gypsy moth</td>
<td>4,170,000</td>
<td>12.8</td>
<td>4,530</td>
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<tr>
<td>OW</td>
<td><em>Ceratocystis fagacearum</em></td>
<td>oak wilt</td>
<td>4,032,000</td>
<td>12.4</td>
<td>4,521</td>
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<tr>
<td>EAB</td>
<td><em>Agrilus planipennis</em></td>
<td>emerald ash borer</td>
<td>1,434,000</td>
<td>4.4</td>
<td>546</td>
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<tr>
<td>TCD</td>
<td><em>Pityophthorus juglandis &amp; Geosmithia spp.</em></td>
<td>thousand canker disease</td>
<td>105,000</td>
<td>0.3</td>
<td>50</td>
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<tr>
<td>DA</td>
<td><em>Discula destructive</em></td>
<td>dogwood anthracnose</td>
<td>60,000</td>
<td>0.2</td>
<td>&lt;1</td>
</tr>
<tr>
<td>LAT</td>
<td><em>Choristoneura conflictana</em></td>
<td>large aspen tortrix</td>
<td>60,000</td>
<td>0.2</td>
<td>4</td>
</tr>
</tbody>
</table>
For general information regarding UFIA:

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651-261-0053

Urban FIA Field Guide & General Information:
http://www.nrs.fs.fed.us/fia/urban/

We are always looking for “willing and able” partners & cooperators. If you are interested in getting your “Focus City” involved please contact your regional FIA Program Manager:

North: Dennis May
South: Bill Burkman
Pacific West: Sharon Stanton
Interior West: Michael Wilson