

EAB Management Plan for the City of Des Moines

presented by
David Jahn, Municipal Arborist



www.dmgov.org

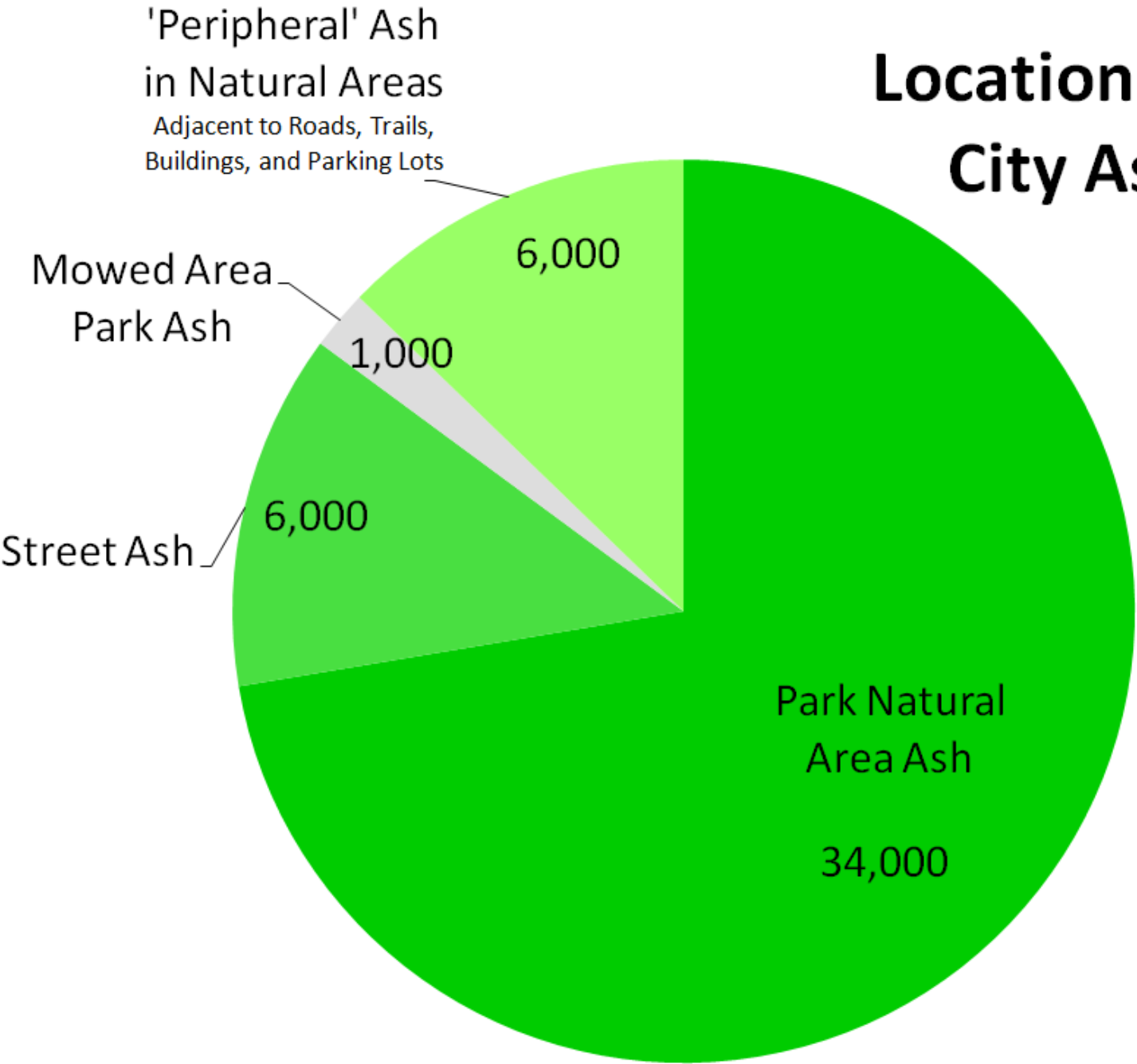
Go here for helps on our Forestry webpage,
including links to
ISU, IDALS, IA DNR

Public trees and Private trees

- plan the same way!

- Inventory
- Assessment
- Treatment
- Removal
- Replacement
- Budget
- Action

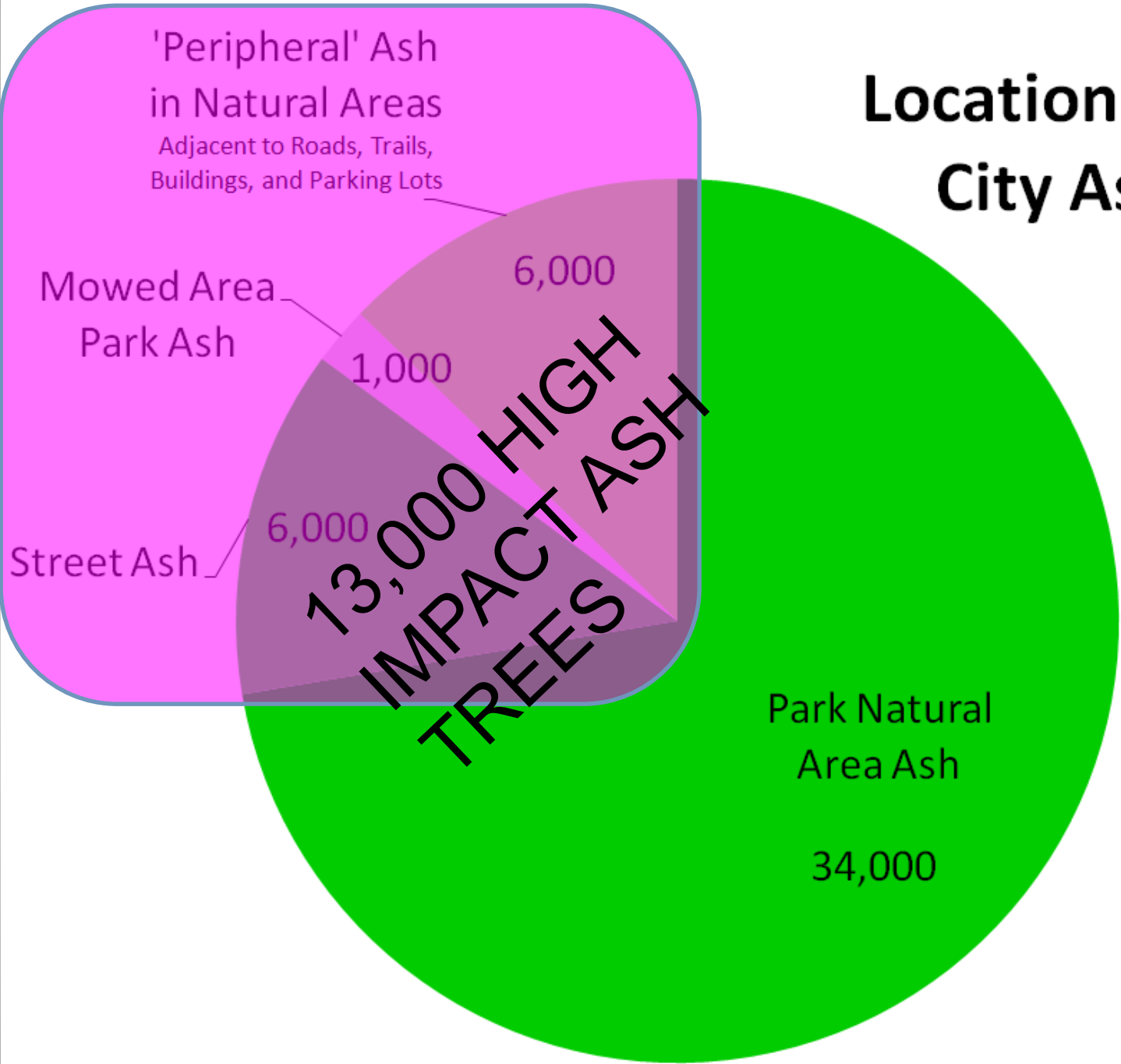
Location of 47,000 City Ash Trees



34,000 (estimated) 'low impact' park ash trees in natural and riparian areas



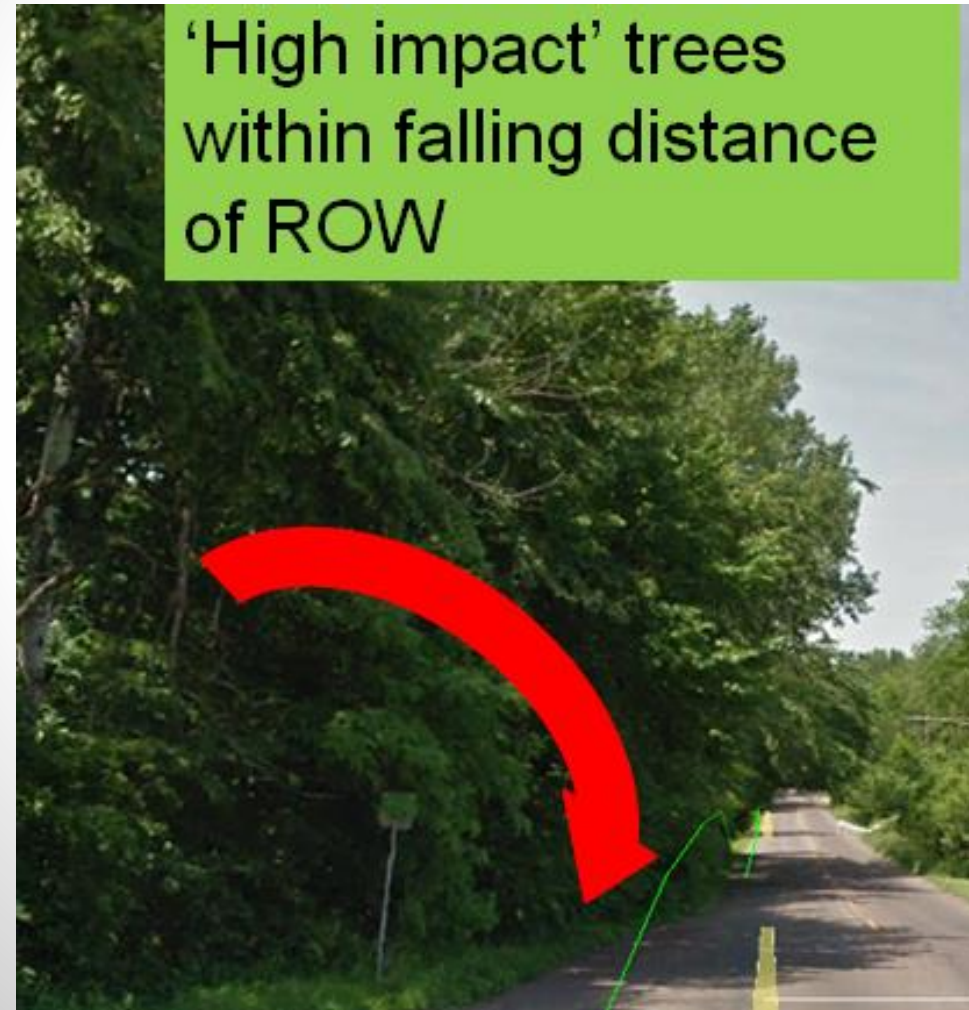
Location of 47,000 City Ash Trees



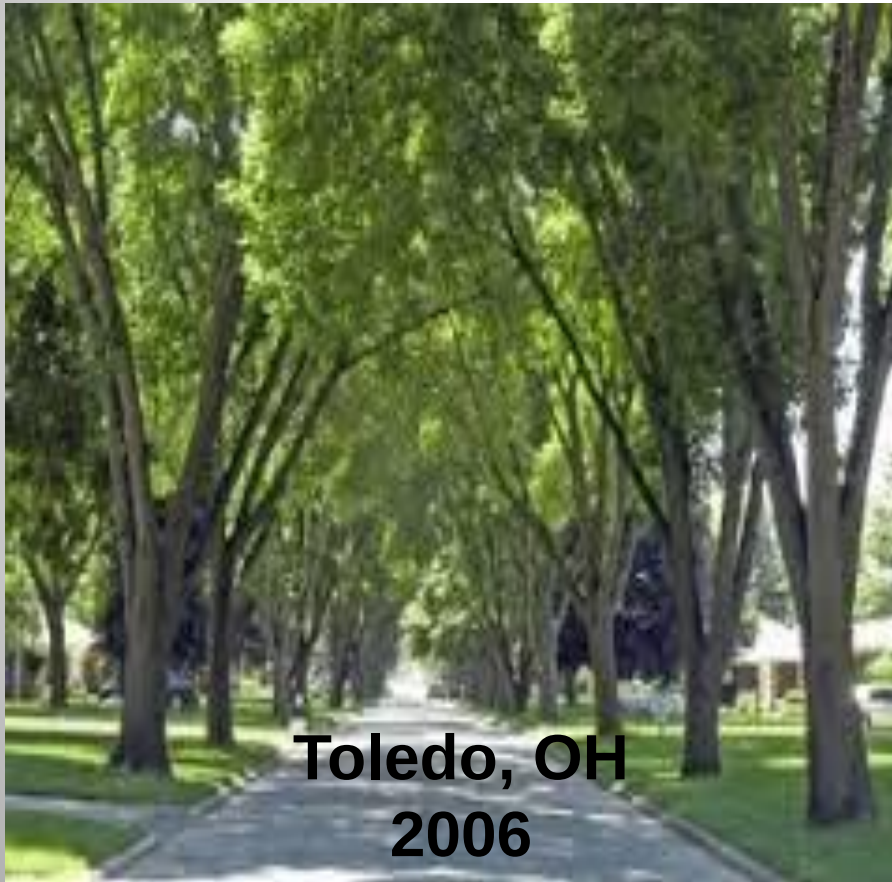
1,000 of the estimated 13,000 'high impact' ash trees are in mowed areas of parks



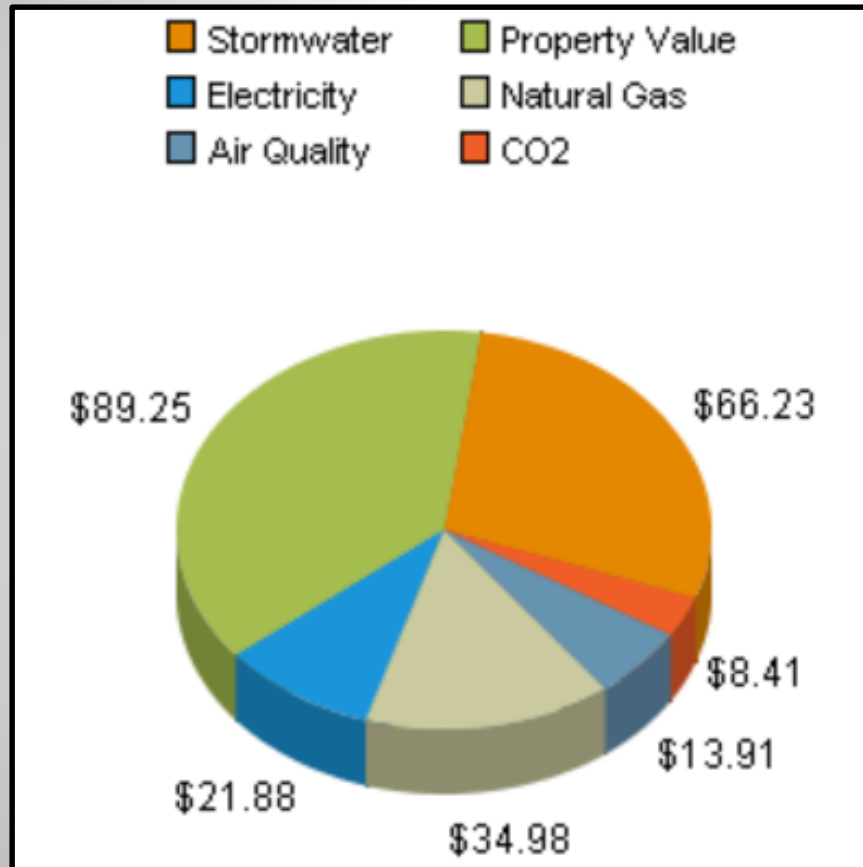
6,000 of the estimated 13,000 'high impact' ash trees are in peripheral areas of naturally forested parks



6,000 of the estimated 13,000 'high impact' ash trees are street trees



Impact of losing 6000 ash street trees



- An **18 inch white ash** provides overall benefits of \$235 every year
- 6000 ash trees produce \$1.4M in annual benefits

The National Tree Benefit Calculator was conceived and developed by
[Casey Trees](#) and [Davey Tree Expert Co.](#)

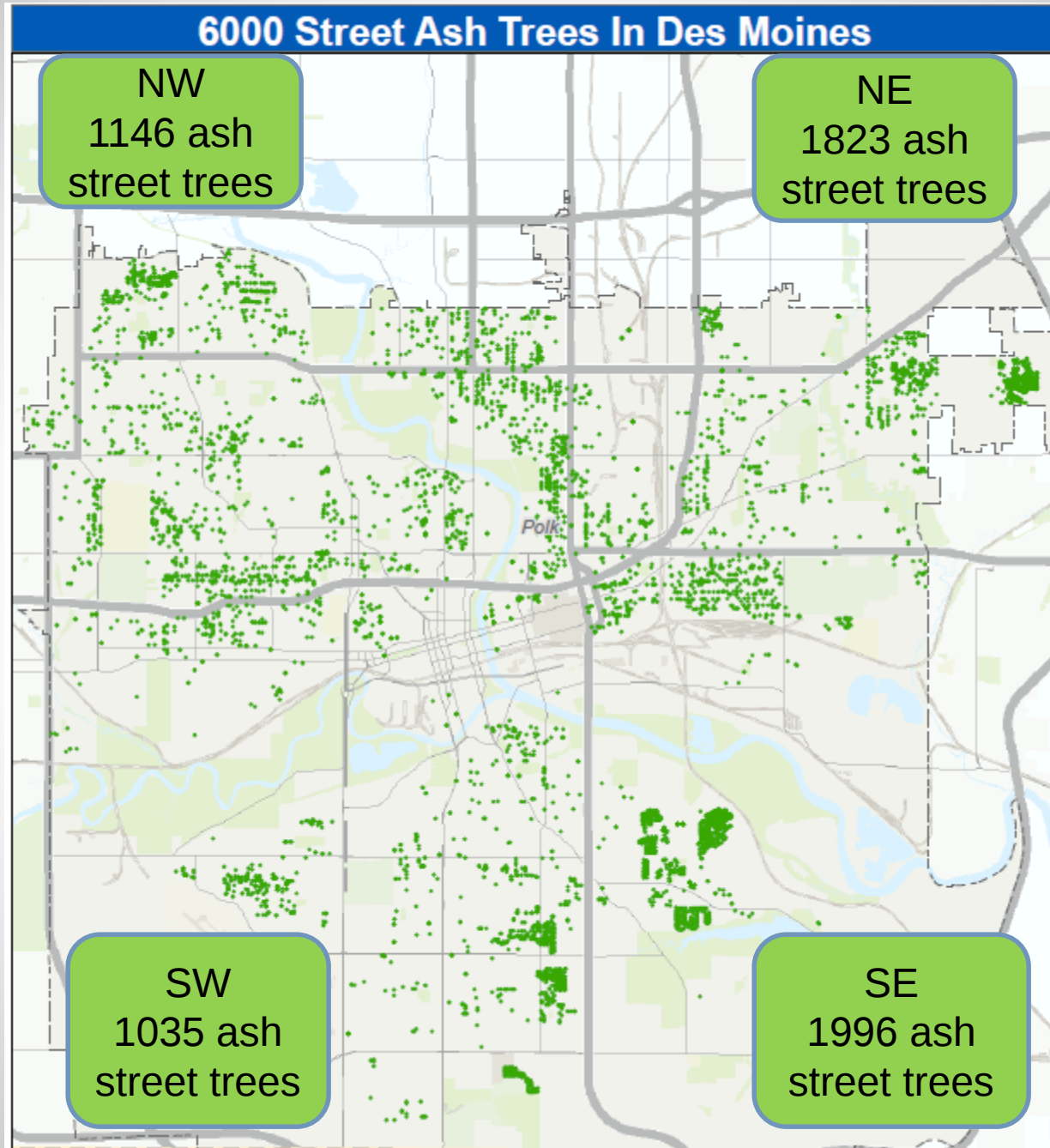
6000 Street Ash Trees In Des Moines

NW
1146 ash
street trees

NE
1823 ash
street trees

SW
1035 ash
street trees

SE
1996 ash
street trees



There are an estimated 100K-120K ash trees on private property inside DM borders



How long does it take for an infested ash tree to die?

“Within 2 years of observing symptoms, most of the crown of the tree will be dead. Complete tree death typically occurs within 5 years, but may take as few as 2-3 years.”

www.ncforestservice.gov/forest_health/fh_eabfaq.htm



Other Cities

CITY	# of ash street trees	TREATMENT	REMOVAL
Minneapolis	40,000	None	All 40,000 – remove (will treat only as a strategy to prolong removal)
Davenport	3,000	200 for unspecified length of time	2800
Kansas City	20,000	14,000 every 3 years for 9 years then re-assess	Remove/replace 6000
Madison	21,000	15,000	6,000
Chicago	85,000	Treat 35,000/yr for 2 years to slow spread. Reassess every 3 years	15,000
Milwaukee	31,000	Treat 28,000 indefinitely	5,000

When did the Des Moines Response Begin?

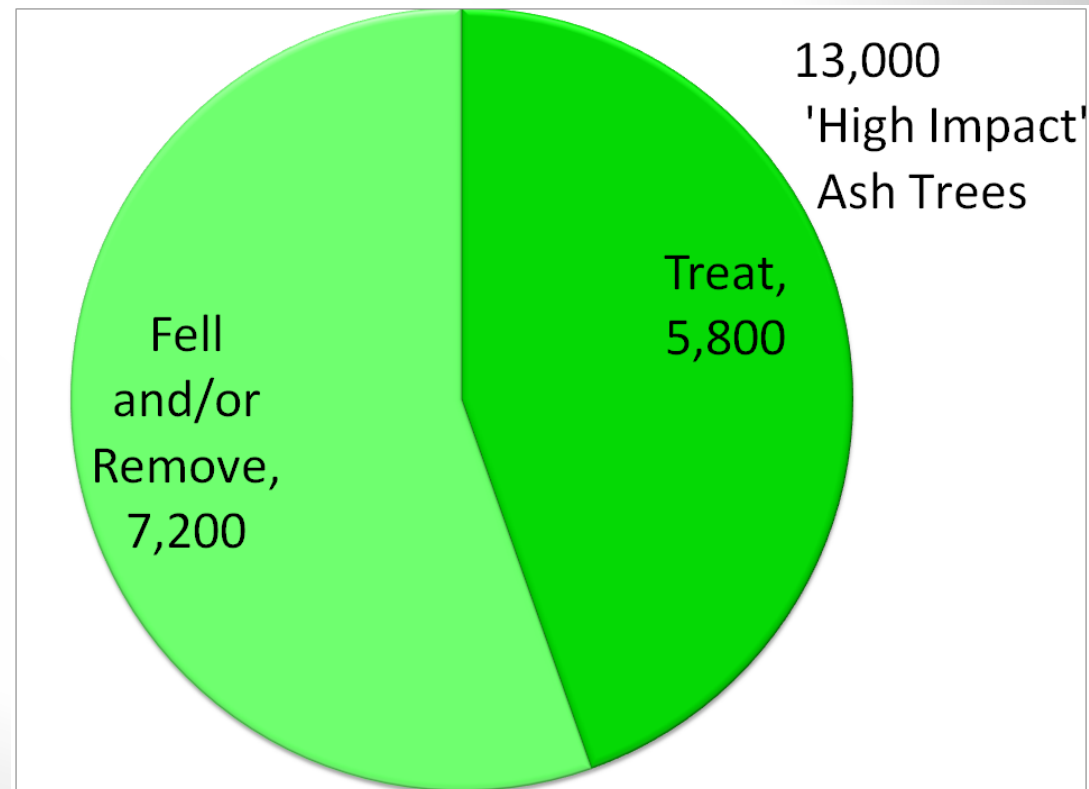


- 2007 stopped planting ash; removed ash from Recommended Species List
- 2010 proactive removal of small ash trees
- 2012 Community Forestry Workshop; also a “What’s Bugging Our Trees?” workshop for tree professionals
- 2012 updated Nuisance Ordinance
- 2013 removing large ash with poor structure; inspecting all removed ash for the presence of EAB

City of Des Moines EAB Plan

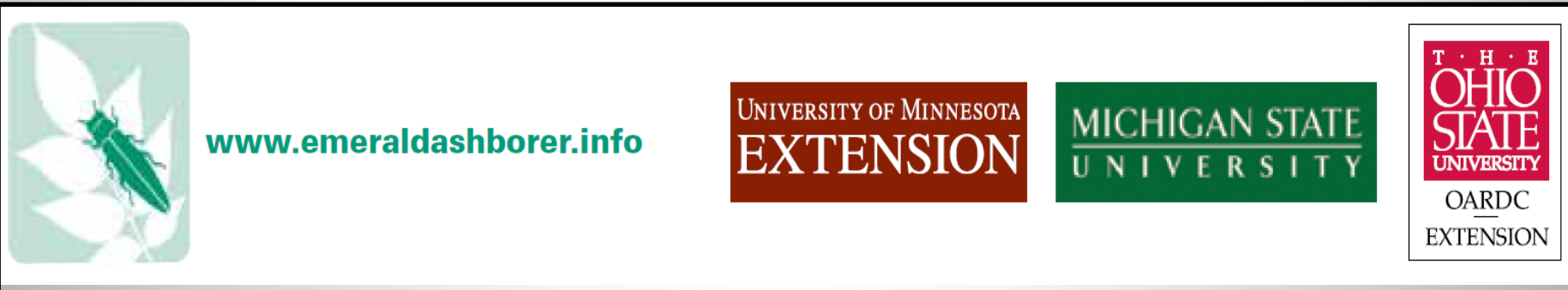
- Treat 5800 'high impact' street and park ash trees in good health with good structure

- Treat to preserve environmental benefits
- Allow time for replacement trees to develop canopy
- Evaluate preservation vs. removal options

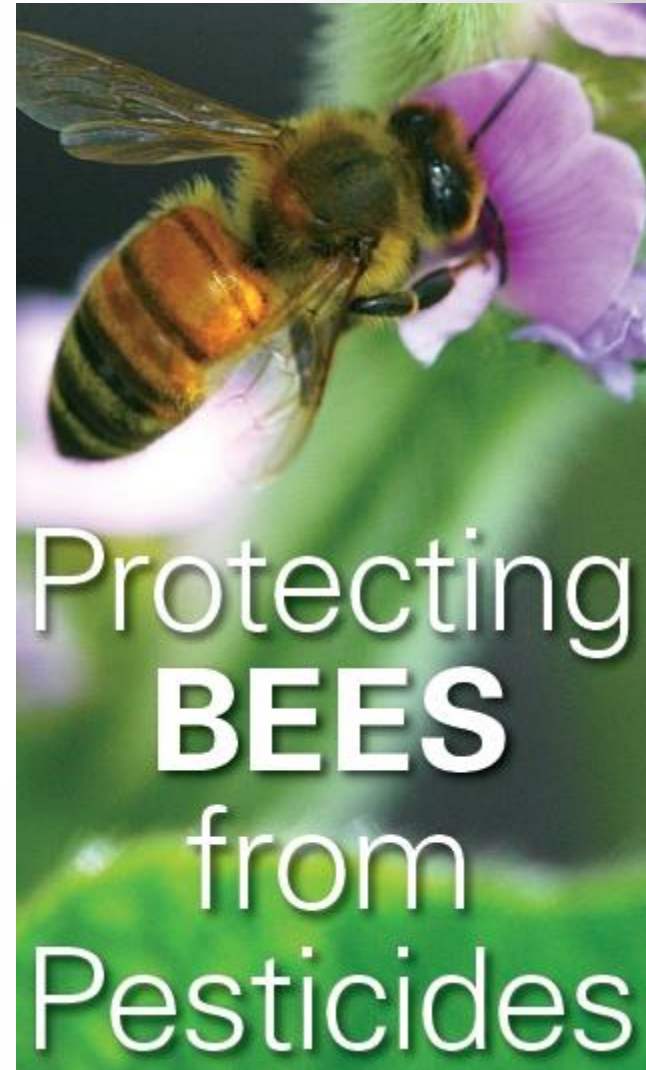


Effectiveness and environmental impact of treatment

- *Emamectin benzoate* (trade name TREE-äge) has been approved for use by the EPA in all states in which EAB is found
- Treatment is by injection (a closed delivery system)
- It is 99+% effective in killing both adult and larval EAB
- Shared university research indicates negligible environmental impact from this treatment on ash trees

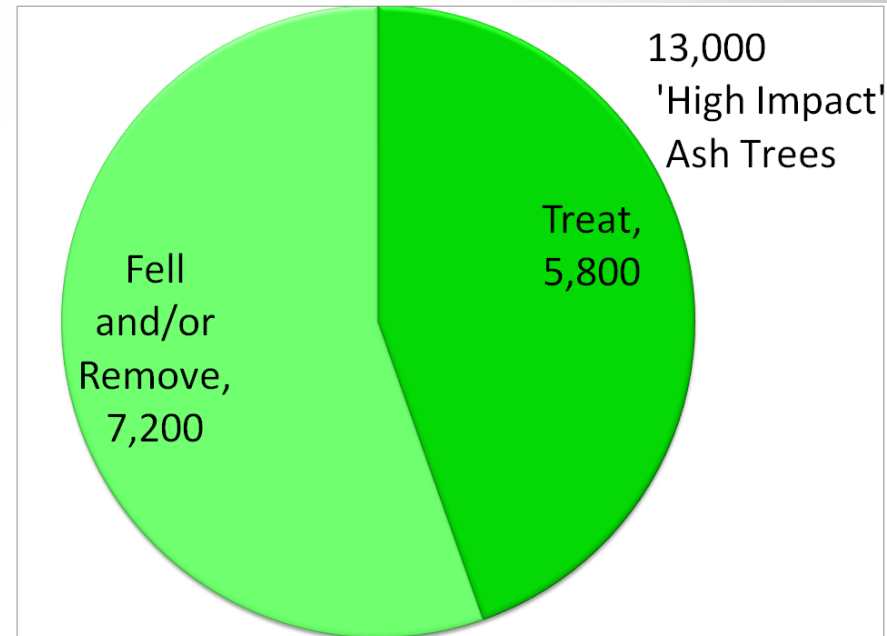


- Ash wind pollinated
- Ash flowers early
- Injection method



City of Des Moines EAB Plan (cont'd)

- 7,200 balance of peripheral 'high impact' trees will be felled within 3 years



34,000 'low impact' ash in park forests and riparian zones left to die and fall on their own

Public Works Proactive Removal Program



- Suspend non-emergency Forestry operations
- Dedicate 1-2 crews to ash tree removal

Collaborative Parks and Recreation Proactive Removal Program



- Park crews remove trees felled by Forestry



Collaborative Agreement

- Up to 1200 (20%) street ash are under utilities
- MEC will provide maps to city
- MEC will remove tree canopies of ash under utilities while performing circuit pruning, covering the entire city in the next 3 years
- PW Forestry will remove balance of tree structure
- City and MEC will collaborate on an effective public notification program

Other collaborative pursuits

- Other public landowners
 - Airport
 - DM Public Schools
 - DM Water Works
 - Metro Waste Authority
 - Polk County
 - Zoo
- Possibilities
 - Public education
 - Ash tree surveys
 - Disposal alternatives

Tree Contractor Services

- The city will require contract assistance to complete program effectively
- July 2014, expand current program with addition of contractor services



Disposal of Debris



- Temporary
 - city marshalling yards
- Final
 - MWA Compost Center and/or Landfill



Opportunities for community planting programs led by citizens, and bare root planting

REPLANTING PLAN

- \$254K average CTRF available funding over next 7 years + MEC 'Trees Please' grant \$20K annually
= \$1.9M available for a 7 year planting program
- Plant 6,850 trees with available funds (@ \$280 per tree) to replace the 7200 high impact trees lost to EAB

Public Education



- Information at dmgov.org
- Public Service Announcements
- Door hangers to affected residents
- Workshops:
 - Tree Des Moines 'Tree Doctors Series'
 - IDALS / ISU / DNR/CDM workshop
April 10, 2014
 - Professional tree workers
 - Evening sessions for residents

EAB Program Funding Elements

- 11 year plan for concurrent tree removal and treatment
- \$5.28 million in proposed CIP (FY 15 – FY 20)
- Beyond proposed CIP – additional \$4.4 million total

(through FY 25)

- Funding Sources:
 - ✓ GO
 - ✓ Stormwater Utility

If you are a resident of Des Moines,
and you think you have ash trees, log
on to
www.dmgov.org

Various links will inform you of your
treatment and removal options. Now
is the time to make plans, before EAB
causes a backlog of service requests
for tree companies.