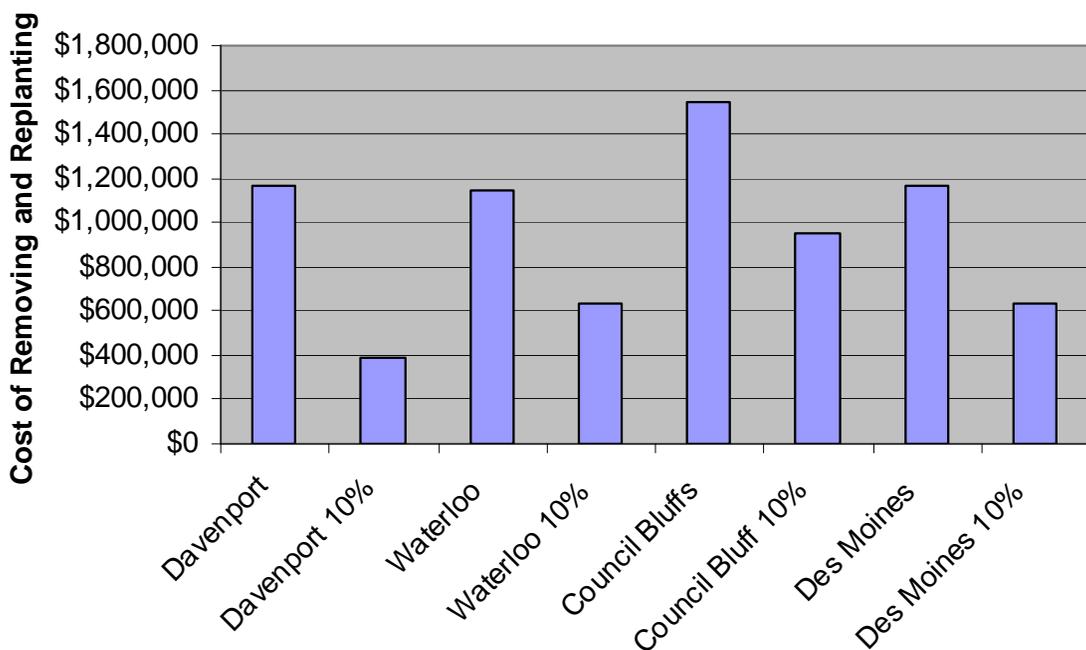


- What is Emerald Ash Borer (EAB)?**  
 EAB is a small green insect that attacks and kills ash trees. The adults live on the outside of ash trees feeding on the leaves during the summer months. The larvae look similar to white grubs and feed on the living plant tissues (phloem and cambium) underneath the bark of ash trees. The trees are killed by the tunneling activity of the larvae under the tree's bark, which disrupts the flow of water and nutrients.
- Where is EAB?**  
 EAB is native to eastern Asia but has been found in Illinois, Indiana, Maryland, Michigan, Minnesota, Missouri, New York, Ohio, Pennsylvania, Virginia, West Virginia, Wisconsin, and Ontario Canada. No one knows exactly when it was introduced to the United States, however many scientist feel that EAB may have been introduced as early 1990. After its introduction, EAB has spread by natural flight, in ash firewood, nursery stock, and other ash materials.
- Why should I care about EAB?**  
 All ash trees are susceptible to EAB damage and millions of ash trees have already been killed in infested areas. Early inventory data indicates that there are 50 million rural ash trees and 30 million urban ash trees in Iowa. The cost of removing and replacing a single tree can range from hundreds to thousands of dollars. Take a moment to think about how many ash trees are in your yard, neighborhood, community, and woodlands. Then imagine those areas without ash trees.
- When will EAB reach Iowa?**  
 No one knows. EAB has **not** yet been found in Iowa but most experts believe that it will inevitably be here. In other states, EAB has been present for a number of years before building to detectable levels. EAB is currently 1.5 miles north from New Albin, IA along the Iowa/Minnesota border.
- What could have been done to help protect Iowa's woodland and community forests?**  
 A healthy woodland and community forest would have many different tree species that create diversity. Ideally, no single tree species would make up more than 10% of the forest population to help limit the impacts from diseases and insects. Sadly, ash trees are over planted in Iowa's communities
- What are the potential financial costs?**  
 The University of Purdue developed an EAB Cost Calculator that allows cities to enter the number of ash trees by trunk size to better determine a realistic cost of removing the trees and grinding out the stumps. In addition, it allows each city to calculate the replacement cost (\$150/tree). The graph below shows the estimated financial cost to remove ash trees and replant new trees in four different communities in Iowa. In addition, the graph shows what the cost would be if the communities were properly diversified to ensure that green ash did not comprise more than 10% of the community trees. The cost of removing and replanting were developed using Purdue's cost calculator.

### Estimated Emerald Ash Borer Cost to Iowa Communities



**Cities in Iowa Based on Current Green Ash Stocking and if Green Ash was 10% Stocked**

