

## **Introduction**

### **Your Opinions on Protecting Ash Trees in Parks**



This study is being conducted by the [Institution]. All survey information and data will be kept completely confidential. Individual data will not be shared or reported. A link to our consent document can be found [HERE](#).

If you have any questions about this survey please contact [NAME].

We are interested in your opinions on protecting trees in your local park against non-native insects. Your responses will help us determine what management actions are acceptable to park users. The information you provide is confidential. Please answer all questions because surveys with missing answers cannot be used to make recommendations. This survey will take 10 minutes to complete.

Do you consent to taking this survey?

Yes

No

### Section 1: Park Usage

Approximately how many times did you visit the park this past month?

What recreational activities do you engage in when you use this park? Select up to three.

Walking/Hiking

Running/Jogging

Cycling

Birdwatching

Picnics/BBQs

Sitting and enjoying being outside

Other:

None of the above

### Attitudes Towards Trees

How important to you are the following characteristics of trees in the park?

	Not at all important	Slightly important	Moderately important	Important	Very important
That the park contains trees that provide <b>shade.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The park contains a variety of trees with <b>different leaf shapes and colors.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Not at all important	Slightly important	Moderately important	Important	Very important
The park contains trees that <b>flower</b> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The park contains trees that are <b>different shapes and heights</b> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Knowledge and Attitudes Towards Trees

On a scale of 1 to 10, how would you rate your ability to identify different tree species?

	<b>I cannot identify any tree species</b>						<b>I am extremely confident in my ability to identify different tree species</b>			
	1	2	3	4	5	6	7	8	9	10

Have you heard of *ash* trees?

- Yes
- No
- Unsure

To the best of your knowledge, which of the following trees is an ash?









Ash trees are a group related tree species, similar to maples or oaks. Ash trees comprise only 1% of Georgia's forest trees, but they can be very common along streams and on floodplains. They provide habitat to animals and help stabilize stream banks. Ash trees are also commonly planted in urban settings as shade trees.





The above tree is an ash tree.

How much do you agree with the following statement: I would like if my street had trees like this.

Strongly disagree

Disagree

Neither agree nor disagree

Agree

Strongly agree

## Knowledge and Attitudes Towards Insects

For the following questions, please indicate how much you like or dislike having the following insects in this park.



**Butterflies**

Strongly dislike

Dislike

Neutral

Like

Strongly like



**Bees**

- Strongly dislike
- Dislike
- Neutral
- Like
- Strongly like



**Ants**

- Strongly dislike

- Dislike
- Neutral
- Like
- Strongly like



**Flies**

- Strongly dislike
- Dislike
- Neutral
- Like
- Strongly like



**Wasps**

- Strongly dislike
- Dislike
- Neutral
- Like
- Strongly like



**Mosquitoes**

- Strongly dislike
- Dislike
- Neutral
- Like
- Strongly like



**Beetles**

Strongly dislike

Dislike

Neutral

Like

Strongly like

Before today, had you heard of the term "invasive species"?

Yes

No

I'm not sure

Invasive species are species that have been introduced from other regions of the world. A non-native species is considered invasive if it causes harm to the environment, economic damage, or it harms people and pets.

Before today, were you aware that non-native species are considered invasive if they cause...

	Yes	No	I'm not sure
Harm to the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Harm to people or their pets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Before today, had you heard of the emerald ash borer?

Yes

No

I'm not sure

How confident are you that you could identify an emerald ash borer?

Not at all confident

Slightly confident

Moderately confident

Confident

Very confident

Where or how have you heard about the emerald ash borer?

News (online, newspaper, television)

Through a friend or neighbor

Social media

Through work or education

I do not remember

## **Emerald Ash Borer**

The emerald ash borer is an invasive insect that comes from Asia. It was first detected in Georgia in 2013. It is a small green beetle and the larvae feed on ash trees. Once they arrive in an area, emerald ash borers can completely kill all healthy ash trees within 2-5

years.



The emerald ash borer is present in this park. How concerned are you about the loss of ash trees in this park from the emerald ash borer?

Not at all concerned

Somewhat concerned

Moderately concerned

Concerned

Very concerned

One option for controlling the emerald ash borer is through biological control (biocontrol). Wasps that eat the ash borer larvae could be released into parks to find and kill the ash borers. The wasps, like the ash borers, come from Asia. These wasps are very small, do not sting or affect humans,

and have little to no effect on native insects.



What **risk** do you think there is that...

	No risk	Low risk	Moderate risk	High risk
The wasps will harm the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The wasps will harm humans (stinging, allergies, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The wasps will harm pets (stinging, allergies, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Another option for controlling the emerald ash borer is through the use of chemical insecticides. Chemicals can either be applied into the soil around a tree or injected straight into the trunk. They are known as “systemic” insecticides since they mostly stay

within the tree and kill all insects that feed upon the tree.



What **risk** do you think there is that...

	No risk	Low risk	Moderate risk	High risk
Applying chemicals in or around trees will harm the environment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying chemicals in or around trees will harm humans.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying chemicals will harm pets (ingestion, contact, etc.).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How concerned are you that...

	Not at all concerned	Slightly concerned	Moderately concerned	Concerned	Very concerned
<b>Wasps</b> used for biocontrol will attack native species in this park.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Wasps</b> used for biocontrol will harm human health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Wasps</b> used for biocontrol will harm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Not at all concerned	Slightly concerned	Moderately concerned	Concerned	Very concerned
pets.					
<b>Chemical control</b> will have unintended environmental impacts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Chemical control</b> will harm human health.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Chemical control</b> will harm pets.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please indicate your level of support for the following two control measures:

	Strongly oppose	Oppose	Neutral	Support	Strongly support
Releasing wasps for biocontrol	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Treating trees with chemicals.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Demographics

What is your sex?

- Male
- Female
- Non-binary / other
- Prefer not to say

How old are you?

- 17 or younger
- 18-24
- 25-34
- 35-44
- 45-54

55-64

65+

How long does it take you to drive to this park?

1-10 minutes

11-20 minutes

Over 20 minutes

I walk to the park

I do not know

If there is anything else you would like to add to your survey results please do so in the space provided:

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