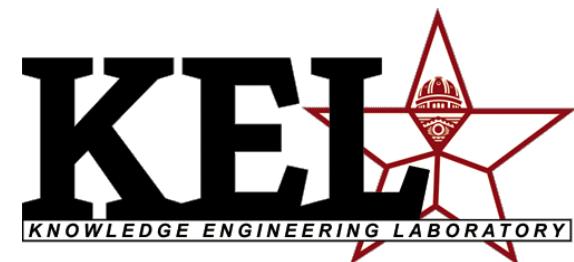


FIRE ANT SPATIAL INFORMATION AND DECISION SUPPORT

Reza H. Teshnizi

Knowledge Engineering Laboratory
Department of Entomology
Texas A&M University

April 1, 2015
FASIDS v4



BACKGROUND

1 2 3 4 5 6
7 8 9 10 11 12 13

What is FASIDS?

- **Fire Ant Spatial Information and Decision Support** aims to:
 1. create a knowledgebase to ease control of Red Imported Fire Ant (RIFA) across Texas.
 2. capture statewide data about distribution, abundance, and treatment of RIFA impacts.
 3. encourage individuals and organizations facing RIFA management issue to share the information in a way that benefits all RIFA stakeholders.

Who Benefits from FASIDS?

- Fire Ant Researchers
 - FASIDS gathers a crowdsourced information which improves the understanding of the RIFA problem.
- Management Cooperators
 - FASIDS creates a network of individuals and organizations facing RIFA management issue and professional pest management providers.

Design and Develop team

- Dr. Robert Coulson (r-coulson@tamu.edu)
 - Project Supervisor
- Dr. Andrew Birt (abirt@tamu.edu)
 - Development Supervisor
 - Design Supervisor
- Reza H. Teshnizi (rht1369@gmail.com)
 - Lead Developer
 - Lead Designer

USER INTERFACE

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Website and Tools Statistics

Enter "Lat, Lon":

Soil

Climate

Daily

Topography

Elevation:-1 meters

About



Fire Ant Fact sheet [image source: fireant.tamu.edu]

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 HOME BUDGET TOOL	<i>Distribution of Solenopsis invicta in Texas</i>	<i>Distribution of Aphaenogaster punctaticeps in Texas</i>
 <i>Distribution of Nylanderia sp in Texas</i>	<i>Stroy: Texas A&M Golf Course: Evaluation of Fire Ant Products</i>	
<i>Distribution of Acanthomyops interjectus in Texas</i>	<i>Distribution of RiFA undefined in Texas</i>	<i>Resources: ANTWEB: Texas Ant Guide</i>
<i>Distribution of RiFA Distribution of RiFA</i>	<i>Distribution of Solenopsis invicta in Texas</i>	<i>Distribution of Aphaenogaster tennesseensis in Texas</i>

Forecast for ZIP: 77840

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

	Wed 1 April	Thu 2 April
6am	77	77
12pm	69	69
6pm	66	66
12am	80	80
6am	71	71
12pm	12	12
6pm	12	12
12am	54	54
Fire Ant Activity Guide	HIGH FORAGING	
<small>Hover Over image for more information</small>		
Temperature (°F)	-	77
Rain (% Chance)	-	50
Cloud Cover (%)	-	79
Rel. Humidity (%)	-	69
Dew Point (°F)	-	65
Feels Like (°F)	-	77
Wind (mph)	-	13

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Forecast for ZIP: 77840

User Manager Widget (Registration and Login)

Fire Ant Activity Guide
Hover Over image for more information

	HIGH		
PORAGING			
Temperature (°F)	77	77	69
Rain (% Chance)	50	20	20
Cloud Cover (%)	79	69	67
Rel. Humidity (%)	69	67	87
Dew Point (°F)	66	65	65
Feels Like (°F)	77	77	69
Wind (mph)	13	13	10
	80	80	80
	12	20	12
	59	59	31
	67	67	54
	68	68	88
	83	83	71
	16	14	13

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FASIDS

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←
Forecast for ZIP: 77840
→

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

Wed 1 April	Thu 2 April
6am 12pm 6pm 12am	6am 12pm 6pm 12am

Fire Ant Activity:   

Website navigation menu



Rain (% Chance)	-	50	20	20	20	20	12	12
Cloud Cover (%)	-	79	69	67	69	59	31	54
Rel. Humidity (%)	-	69	67	87	100	67	67	88
Dew Point (°F)	-	66	65	65	66	68	68	67
Feels Like (°F)	-	77	77	69	66	83	83	71
Wind (mph)	-	13	13	10	10	16	14	13

Fire Ant Fact sheet [image source: fireant.tamu.edu]

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 <p>HOME BUDGET TOOL</p>	<p>Distribution of <i>Solenopsis invicta</i> in Texas</p>	<p>Distribution of <i>Aphaenogaster punctaticeps</i> in Texas</p>
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Fire Ant Fact sheet [image source: fireant.tamu.edu]

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HOME BUDGET TOOL

Solenopsis invicta in Texas

Aphaenogaster punctaticeps in Texas

Distribution of Nylandera sp in Texas

Stroy: Texas A&M Golf Course: Evaluation of Fire Ant Products

Forecast for ZIP: 77840

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

	Wed 1 April	Thu 2 April
6am	77	77
12pm	69	69
6pm	80	80
12am	80	80
HIGH		
HIGH		

Fire Ant Activity Guide
Hover Over image for more information

	6am	12pm	6pm	12am	6am	12pm	6pm	12am
Temperature (°F)	-	77	77	69	66	80	80	71
Rain (% Chance)	-	50	20	20	20	20	12	12
Cloud Cover (%)	-	79	69	67	69	59	31	54
Rel. Humidity (%)	-	69	67	87	100	67	67	88
Dew Point (°F)	-	66	65	65	66	68	68	67
Feels Like (°F)	-	77	77	69	66	83	83	71
Wind (mph)	-	13	13	10	10	16	14	13

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FASIDS Fire Ant Spatial Information and Decision Support

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Fire Ant Fact sheet [image source: fireant.tamu.edu]



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Watercooler (Q&A) Widget

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Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

Wed 1 April	Thu 2 April
6am 12pm 6pm 12am	6am 12pm 6pm 12am
PORACTING	PORACTING
PORACTING	PORACTING

Fire Ant Activity Guide
Hover Over image for more information

6am 12pm 6pm 12am
6am 12pm 6pm 12am
6am 12pm 6pm 12am

Related Resources:

- 1 [ANTWEB: Texas Ant Guide](#)
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Rel. Humidity (%)
- 69 67 87 100 67 67 88

Dew Point (°F)
- 66 65 65 66 68 68 67

Feels Like (°F)
- 77 77 69 66 83 83 71

Wind (mph)
- 13 13 10 10 16 14 13

Fire Ant Fact sheet [image source: fireant.tamu.edu]

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	Distribution of Solenopsis invicta in Texas	Distribution of Aphaenogaster punctaticeps in Texas
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Related Resources

List of related resources (e.g., documents, websites, etc.) to this page

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	Wed 1 April	Thu 2 April
6am	77	77
12pm	69	66
6pm	80	80
12am	71	71
Rain (% Chance)	50	20
	20	20
	20	12
	12	12

Related Resources:

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Fire Ant Fact sheet [image source: fireant.tamu.edu]

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Fire Ant Activity Predictor

FASIDS Fire Ant Spatial Information and Decision Support

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Fire Ant activity predictor



	Texas <i>punctaticeps</i> in Texas	
Distribution of <i>Nylandera</i> sp in Texas	Stroy: Texas A&M Golf Course: Evaluation of Fire Ant Products	
Distribution of <i>Acanthomyops interjectus</i> in Texas	Distribution of <i>RIFA</i> in Texas	
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Environmental Data

FASIDS Fire Ant Spatial Information and Decision Support

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Environmental information widget



Forecast for ZIP: 77840

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

Wed 1 April Thu 2 April

6am 12pm 6pm 12am 6am 12pm 6pm 12am

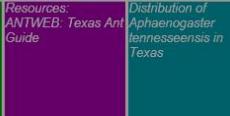
HIGH PORACTING HIGH PORACTING HIGH PORACTING

Fire Ant Activity Guide
 Hover Over image for more information

	6am	12pm	6pm	12am	6am	12pm	6pm	12am
Temperature (°F)	-	77	77	69	66	80	80	71
Rain (% Chance)	-	50	20	20	20	20	12	12
Cloud Cover (%)	-	79	69	67	69	59	31	54
Rel. Humidity (%)	-	69	67	87	100	67	67	88
Dew Point (°F)	-	66	65	65	66	68	68	67
Feels Like (°F)	-	77	77	60	66	92	92	71

Fire Ant Fact sheet [image source: fireant.tamu.edu]

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Resources: ANTWEB: Texas Ant Guide		
Distribution of Solenopsis invicta in Texas		

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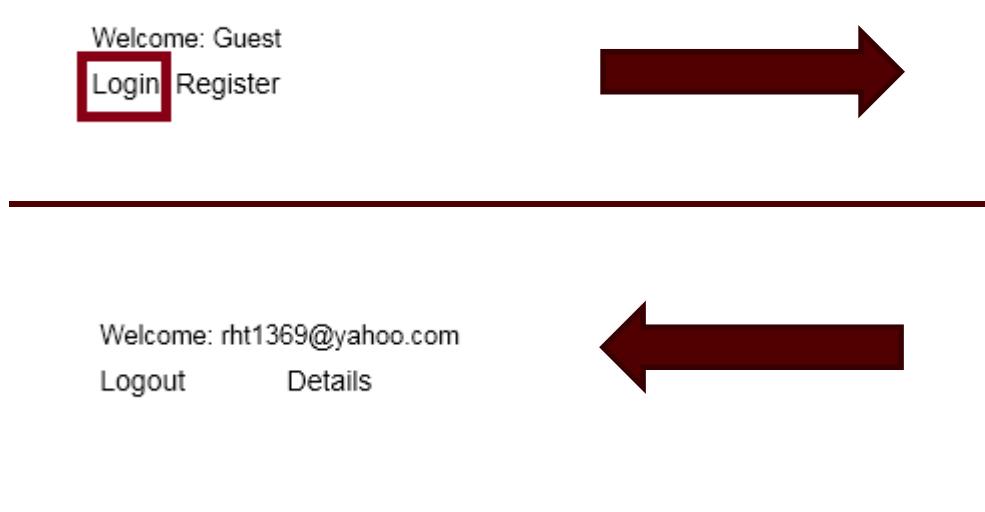
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USER MANAGER WIDGET

1 2 3 4 5 6
7 8 9 10 11 12 13

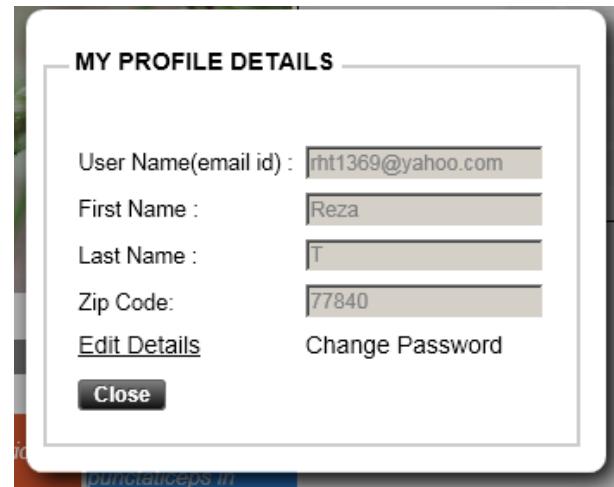
Login Process

- Users can login in two ways:
 - Using their FASIDS credentials (if they have registered through FASIDS website)
 - Using their Facebook credentials (which will be registered in FASIDS database)



User Profile

- Users can see and edit their profile details.
- The profile information is used to tailor the widgets on the website to user's location.
 - Some features of the website requires users to be logged in to be accessible (e.g., Q&A, landscape management, etc.)



Registration

- Some features of the website requires users to be logged in to be accessible (e.g., Q&A, landscape management, etc.)
- Users can login in two ways:
 - Using their email address
 - Using their Facebook credentials

Register using FASIDS or Facebook

User Name (email id)

First Name:

Last Name:

ZIP code:

OR 

Submit

Cancel Registration

Texas

WATERCOOLER (Q&A) WIDGET

1 2 3 **4** 5 6
7 8 9 10 11 12 13

What does it do?

- Watercooler gives the registered users the ability to:
 - ask their questions on a specific page or resource.
 - Post comments on a specific page or resource.
- Inappropriate or irrelevant content can be flagged for review.
- Registered users can post new content, edit their own posts, or reply to existing posts.

Widget's Entry

When logged in

Contents related to this page
(Click to see the list):

Questions:	<input type="text" value="2"/>
Comments:	<input type="text" value="0"/>
Compose a new Content	
About this Widget	



When not logged in

Contents related to this page
(Click to see the list):

Questions:	<input type="text" value="2"/>
Comments:	<input type="text" value="0"/>
About this Widget	

Posting Content (only for registered users)

- Clicking on the “Compose a new Content” button opens a dialog for composing a post.

FASIDS Fire Ant Spatial Information and Decision Support

Welcome: kel.fasids@gmail.com
Logout Details

Select Content Type: Question

Title:

Add New Block

Done Editing

Tools

- Plain Text
- Image
- Map
- Rich Text

Contents related to this page
(Click to see the list):

Questions:	2
Comments:	0

Compose a new Content

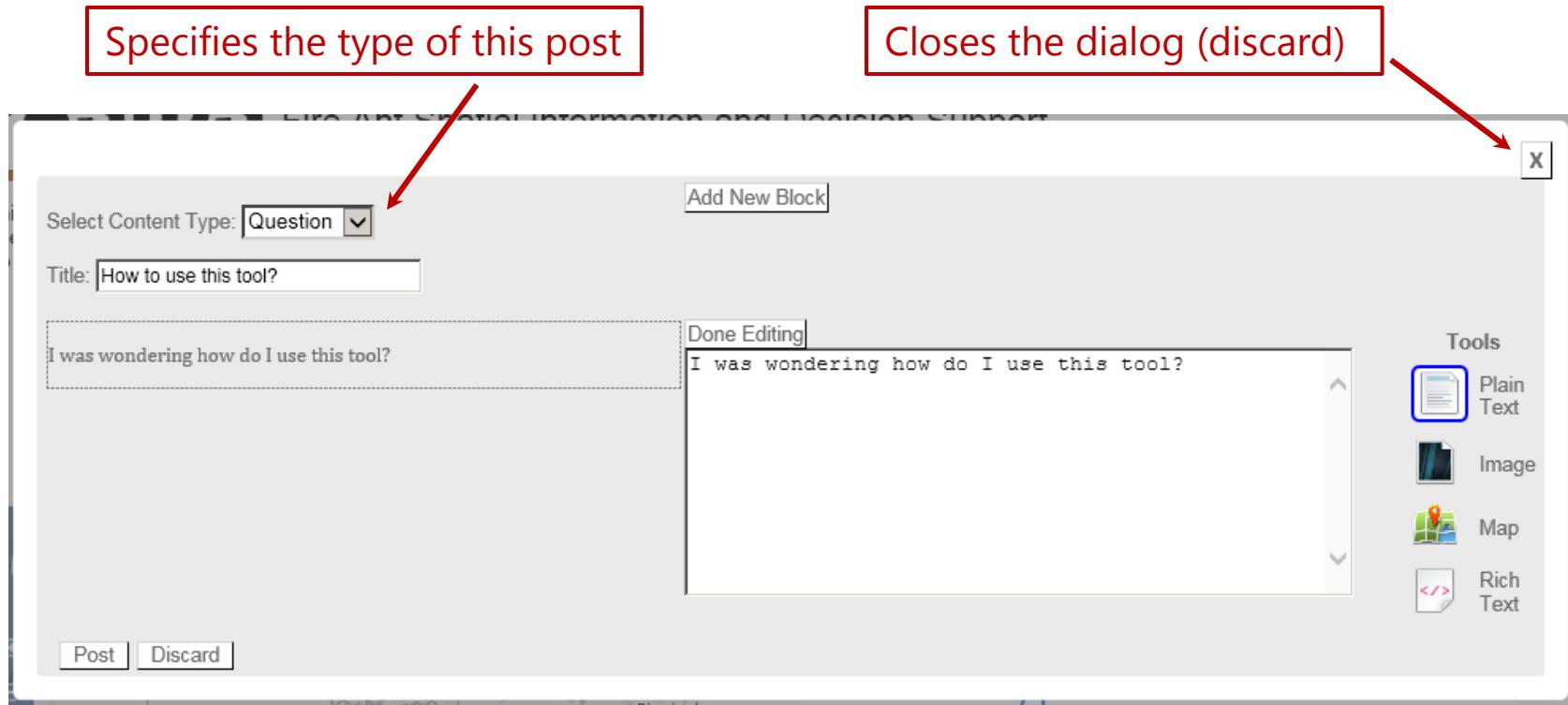
About this Widget

Related Resources:

- [Managing Imported Fire Ants in Urban Areas: A Regional Publication for AL, AR, FL, GA, LA, OK, SC, TN, TX \(University of Georgia\)](http://www.caes.uga.edu/publications/pubDetail?pk_ID=7171)
- [Controlling Raspberry Crazy Ants \(Texas A&M Urban Entomology\) \(PDF\)](http://urbanentomology.tamu.edu/pdf/RCA.pdf)
- <http://harris.agrilife.org/program-areas/fireant/>

The screenshot shows the FASIDS interface. On the left is a sidebar with links: Home, Landscape Management Tool, Home Owner Management Tool, Texas Ant Distributions, Management Reports, Invasive Ant Monitoring, and Website and Tools Statistics. The main area has a map of the southern US (Texas, Louisiana, Mississippi, Alabama, Georgia, South Carolina, North Carolina, and Florida) with several blue dots indicating ant infestation points. Overlaid on the map is a content composition dialog. The dialog title is "Select Content Type: Question". It contains a "Title:" input field, a large text area with a "Done Editing" button, and "Post" and "Discard" buttons at the bottom. To the right of the map is a sidebar with user information (Welcome: kel.fasids@gmail.com, Logout, Details), a "Contents related to this page" section with a table for Questions (2) and Comments (0), a "Compose a new Content" button, and an "About this Widget" link. Below these are "Related Resources" with five numbered links to external websites.

How to compose content?



How to compose content?

The screenshot shows a user interface for composing content. At the top left, there is a dropdown menu labeled "Select Content Type" with "Question" selected. To the right of the dropdown is a button labeled "Add New Block". Below these, a text input field is labeled "Title: How to use this tool?". A red arrow points from a callout box containing the text "Sets the title for this post" to the title input field. In the center, there is a rich text editor window with a dashed border. Inside the editor, the text "I was wondering how do I use this tool?" is visible. Above the editor, the text "Done Editing" is displayed. On the far right, a sidebar titled "Tools" contains four options: "Plain Text" (selected), "Image", "Map", and "Rich Text". At the bottom left of the main window are two buttons: "Post" and "Discard".

Select Content Type: Question

Add New Block

Title: How to use this tool? ← Sets the title for this post

I was wondering how do I use this tool?

Done Editing

I was wondering how do I use this tool?

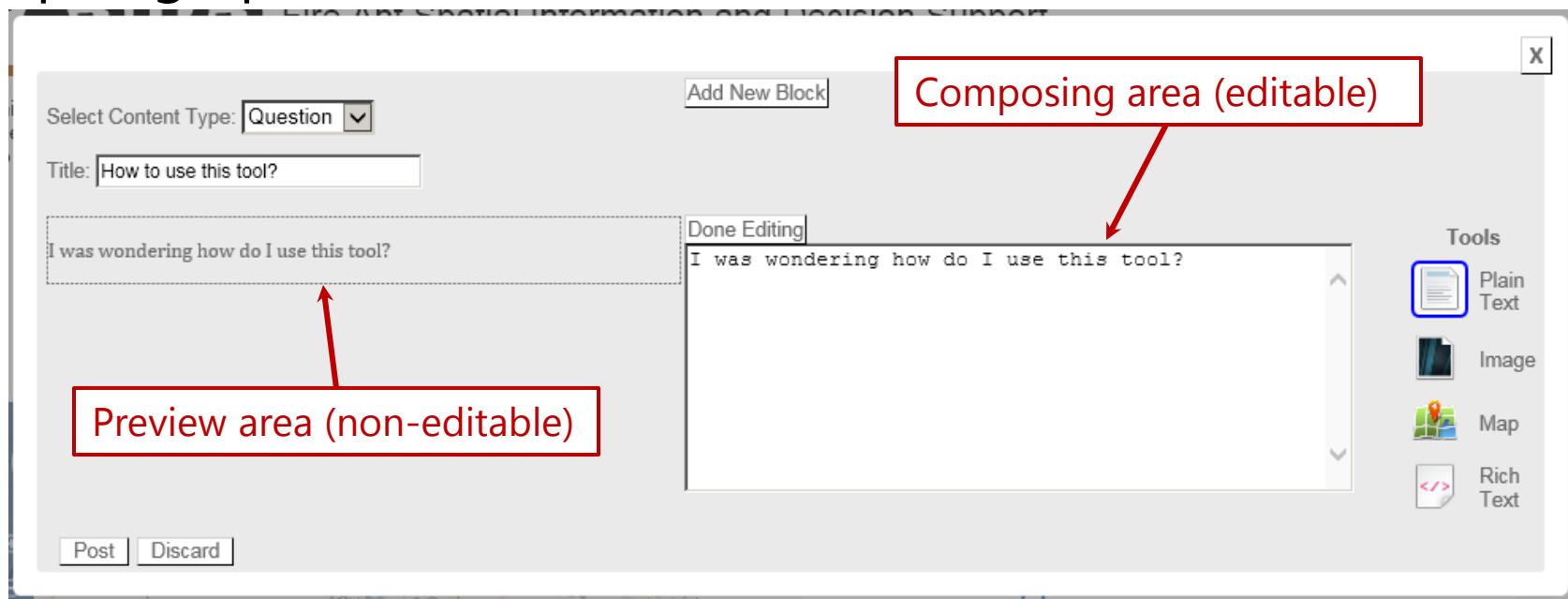
Tools

- Plain Text
- Image
- Map
- Rich Text

Post Discard

How to compose content?

- Each post in this widget is constructed from blocks (or paragraphs).



How to compose content?

- Four types of block is provided.

Available block types.

The screenshot shows a user interface for composing content. At the top left, there is a dropdown menu labeled "Select Content Type" with "Question" selected. To its right is a button labeled "Add New Block". Below these, there is a title input field containing "How to use this tool?". A text block contains the text "I was wondering how do I use this tool?". On the right side, there is a sidebar titled "Tools" listing four block types: "Plain Text" (selected), "Image", "Map", and "Rich Text". A red arrow points from the text "Available block types." to the "Tools" sidebar. At the bottom left, there are "Post" and "Discard" buttons.

Select Content Type: Question

Add New Block

Title: How to use this tool?

I was wondering how do I use this tool?

Done Editing

I was wondering how do I use this tool?

Tools

Plain Text

Image

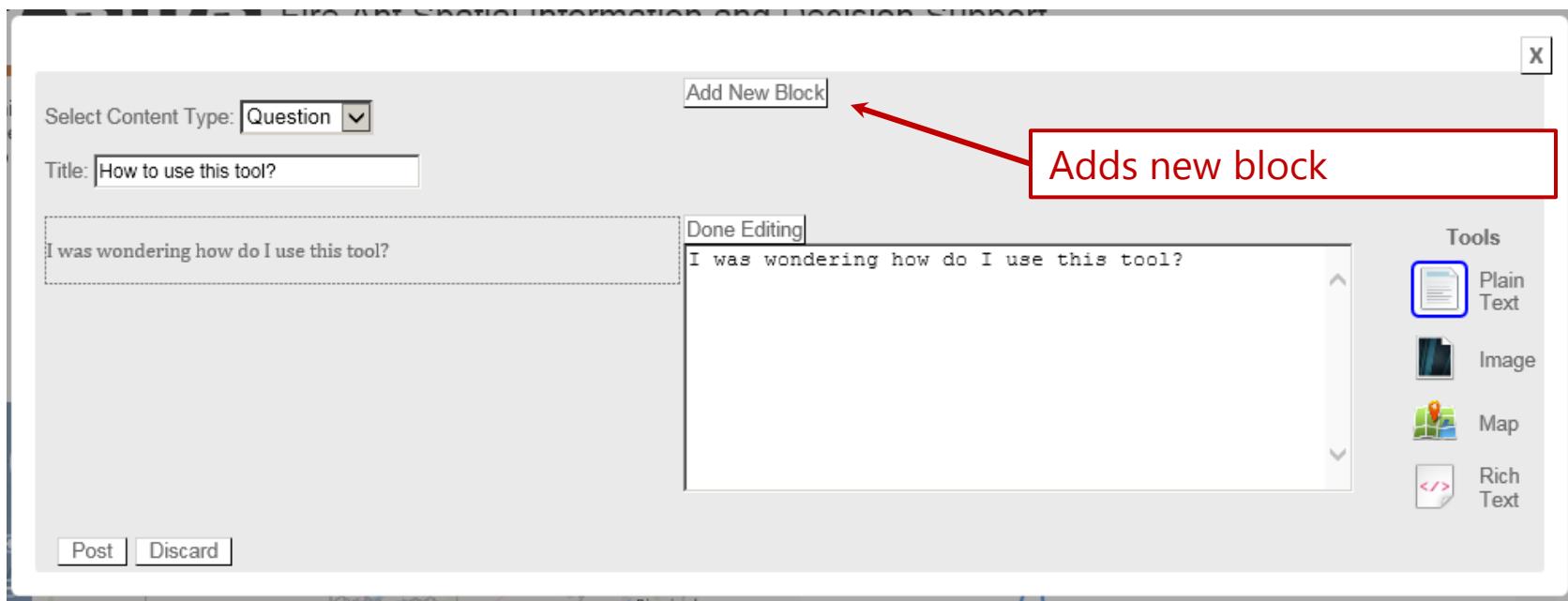
Map

Rich Text

Post Discard

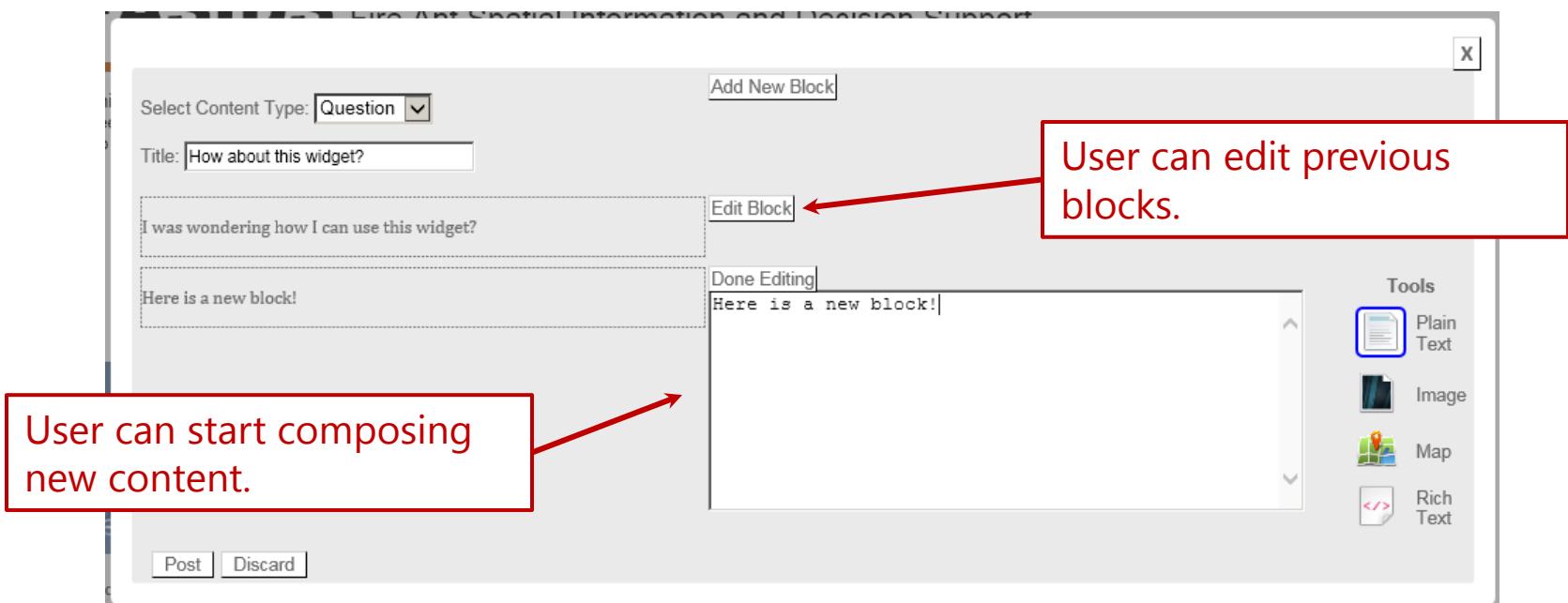
How to compose content?

- Once the user is satisfied with composed block, they can add a new block.



How to compose content?

- Once the user is satisfied with composed block, they can add new blocks.



Posting the composed content

Select Content Type: Question

Title: How about this widget?

I was wondering how can I use this widget?

I can add maps like this



Done Editing

INSTRUCTIONS:

- You can insert maps in your document using this tool.
- You need to take the map to your desired location and set it on your preferred zoom level before posting the document.
- Also you can specify a caption to be shown below the map.
- To highlight an area in the map, you need to follow these step:
 - 1- Click on the "Polygon Tool" button below. It will remain pressed.
 - 2- click on the map to add vertices to the polygon.
 - 3- To finish drawing, click again on the "Polygon Tool".
- You can specify a text to be shown when user hover over the drawn polygon by typing a text into the Tooltip area.

Caption:

Tooltip:

Polygon Tool

Posts the content to the page.

Discards the composed content.

Tools

- Plain Text
- Image
- Map
- Rich Text

Posting the composed content

- Done!

Users can edit their own posts.

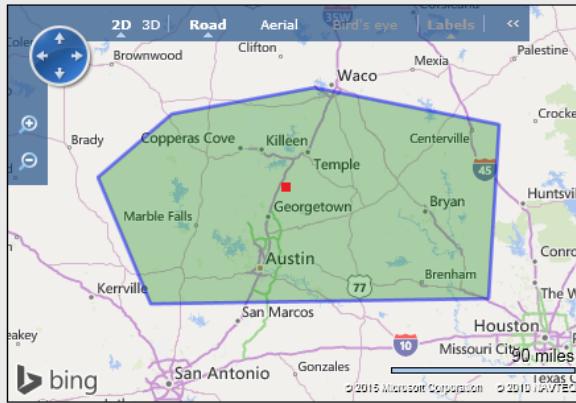
This Question was posted on [This page](#).
[See the root list.](#) [BACK](#)

[Edit This Content](#) [Delete Content](#)

QUESTION

HOW ABOUT THIS WIDGET?

I was wondering how can I use this widget?
I can add maps like this



Posted By You on 4/2/2015 1:47:00 AM

[Reply](#)

There are no replies to this content yet. [See the root list.](#)

Users can delete their own posts.

Viewing list of the posts threads

User can see the list of all the posts on this page by clicking on "Questions" or "Comments" button.

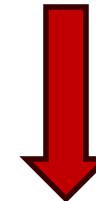


Contents related to this page
(Click to see the list):

Questions:	2
Comments:	0

Compose a new Content

[About this Widget](#)



No.	Title	Posted By	Date Posted
Q 1	How about this widge...	kel.fasids@gmail.com	4/2/2015 1:47:00 AM
Q 2	How to use this tool...	rht1369@yahoo.com	2/25/2015 6:05:00 PM

Viewing a post

No.	Title	Posted By	Date Posted
Q 1	How about this widge...	kel.fasids@gmail.com	4/2/2015 1:47:00 AM
Q 2	How to use this tool...	rht1369@yahoo.com	2/25/2015 6:05:00 PM

User can see a post by clicking on the title.

This Question was posted on [This page](#).
[See the root list](#) | [BACK](#)

[Edit This Content](#) | [Delete Content](#)

QUESTION

HOW ABOUT THIS WIDGET?

I was wondering how can I use this widget?
I can add maps like this



Posted By You on 4/2/2015 1:47:00 AM
[Reply](#)

There are no replies to this content yet. [See the root list](#).

Navigating through a post thread

This screenshot shows a post thread interface. At the top, there's a header bar with some icons and text. Below it, a post is displayed with a timestamp and a reply button. A red box highlights the 'See the root list' link, with a red arrow pointing to it from the text 'Shows the list of all the post threads.' Another red box highlights the 'Flag' button, with a red arrow pointing to it from the text 'Opens the page on which this content was posted.'

This Question was posted on [This page](#).
[See the root list.](#)

[Flag](#)

QUESTION

HOW TO USE THIS TOOL?

How do I use this tool?
I am **serious!**

Posted By rht1369@yahoo.com on 2/25/2015 6:05:00 PM

[Reply](#)

No.	Title	Posted By	Date Posted
A 1	RE: How to use this tool...	rht1369@yahoo.com	2/25/2015 6:07:00 PM

Navigating through a post thread

This Question was posted on [This page](#).
[See the root list.](#)

QUESTION

HOW TO USE THIS TOOL?

How do I use this tool?
I am **serious**!

Posted By rht1369@yahoo.com

Reply

No.	Title	Posted By	Date Posted
A 1	RE: How to use this tool...	rht1369@yahoo.com	2/25/2015 6:07:00 PM

Users can flag other users' post for review.

Users can reply to post (an Answer or a Comment)

Navigating through a post thread

This Question was posted on [This page.](#)
[See the root list.](#)

[Flag](#)

QUESTION

HOW TO USE THIS TOOL?

How do I use this tool?
I am **serious!**

Posted By rht1369@yahoo.com on 2/25/2015 6:05:00

[Reply](#)

No.	Title	Posted By	Date Posted
A 1	RE: How to use this tool...	rht1369@yahoo.com	2/25/2015 6:07:00 PM

List of replies to this content.

Navigating through a post thread

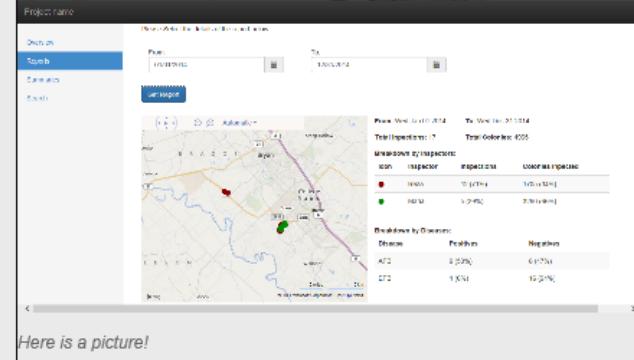
This Answer was posted on [This page](#).
This is a reply to [This Content](#). [BACK](#)

[Flag](#)

*A*NSWER

RE: HOW TO USE THIS TOOL

Good Point! Maybe this picture will help you

A screenshot of a software application window titled "Project name". The left sidebar has tabs for "Drawings", "Tables", "Comments", and "Tools". The "Tables" tab is selected, showing a table with two rows. The first row has columns "icon", "inspector", "inspection", and "colorblind inspection". It contains entries for "red dot" (HABO), "10.17%", "10.17%", and "10.17%". The second row has entries for "green dot" (HABO), "10.20%", "10.20%", and "10.20%". Below the table is a map of a river system with several inspection points marked by red and green dots. A legend indicates that red dots represent HABO and green dots represent HABO.

Here is a picture!

Posted By rht1369@yahoo.com on 2/25/2015 6:07:00 PM

[Reply](#)

There are no replies to this content yet. [See the root list](#).

Shows the previous post that the user was viewing.

Shows the post to which this post replies.

RELATED AND POPULAR RESOURCES

1 2 3 4 **5** 6
7 8 9 10 11 12 13

Most Popular Content

- We collect statistics for each page.
- A list of top 10 most popular content of the website is shown on all the pages.
- This widget provides the title of the page and number of times it has been viewed.

Most Popular Content		
1	<u>Distribution of RIFA in Texas</u>	246 hits
2	<u>Distribution of Solenopsis in Texas</u>	104 hits
3	<u>Resources: ANTWEB: Texas Ant Guide</u>	52 hits
4	<u>Stroy: Texas A&M Golf Course: Evaluation of Fire Ant Products</u>	41 hits
5	<u>Distribution of Acanthomyops interjectus in Texas</u>	38 hits
6	<u>Distribution of Solenopsis invicta in Texas</u>	38 hits
7	<u>Distribution of RIFA undefined in Texas</u>	34 hits
8	<u>Distribution of Nylanderia sp in Texas</u>	24 hits
9	<u>Distribution of Aphaenogaster tennesseensis in Texas</u>	22 hits
10	<u>Distribution of Aphaenogaster punctaticeps in Texas</u>	16 hits

Related Resources

- On each page a list of top 10 most related resources is shown.

Related Resources:

- 1 [ANTWEB: Texas Ant Guide](#)
- 2 [http://www.extension.org/pages/9725/geographic distribution-of-fire-ants](http://www.extension.org/pages/9725/geographic-distribution-of-fire-ants)
- 3 [Geographic Distribution of Fire Ants](#)
- 4 [Fire Ant Information for Texas Residents](#)
- 5 [Research Reports - Texas Imported Fire Ant Project](#)
- 6 <http://www.desertmuseum.org/invaders/invader>
- 7 <http://entnemdept.ufl.edu/creatures/urban/ants/>
- 8 http://maps.acesag.auburn.edu/Imported_Fire_Ants.html
- 9 [Fire Ants \(DesertMuseum.org\)](#)
- 10 [Featured Creatures: Red Imported Fire Ant \(University of Florida\)](#)

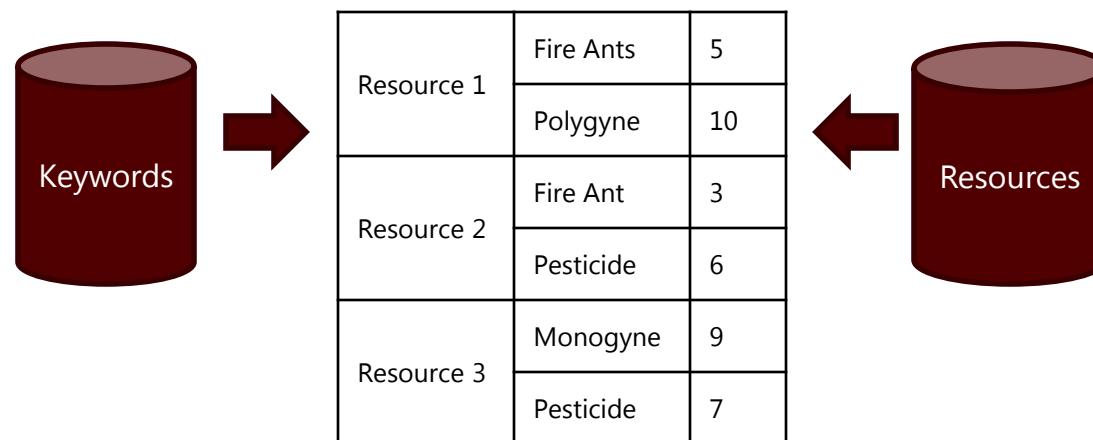
How do we find correlations between contents?

- First we built databases of keywords and resources.
- These databases are crowdsourced but administrated.



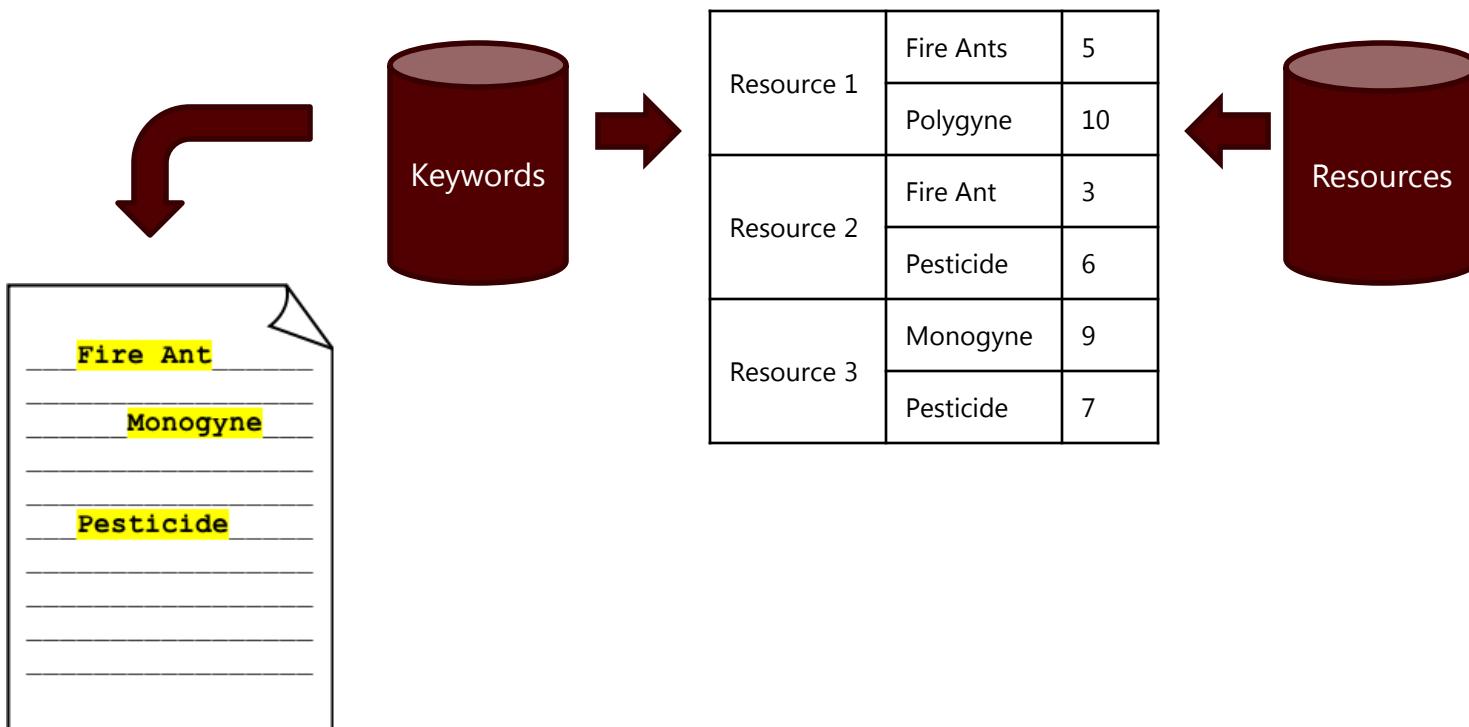
How do we find correlations between contents?

- We then find the matching keywords in each resource and assign a score to each keyword on the page.



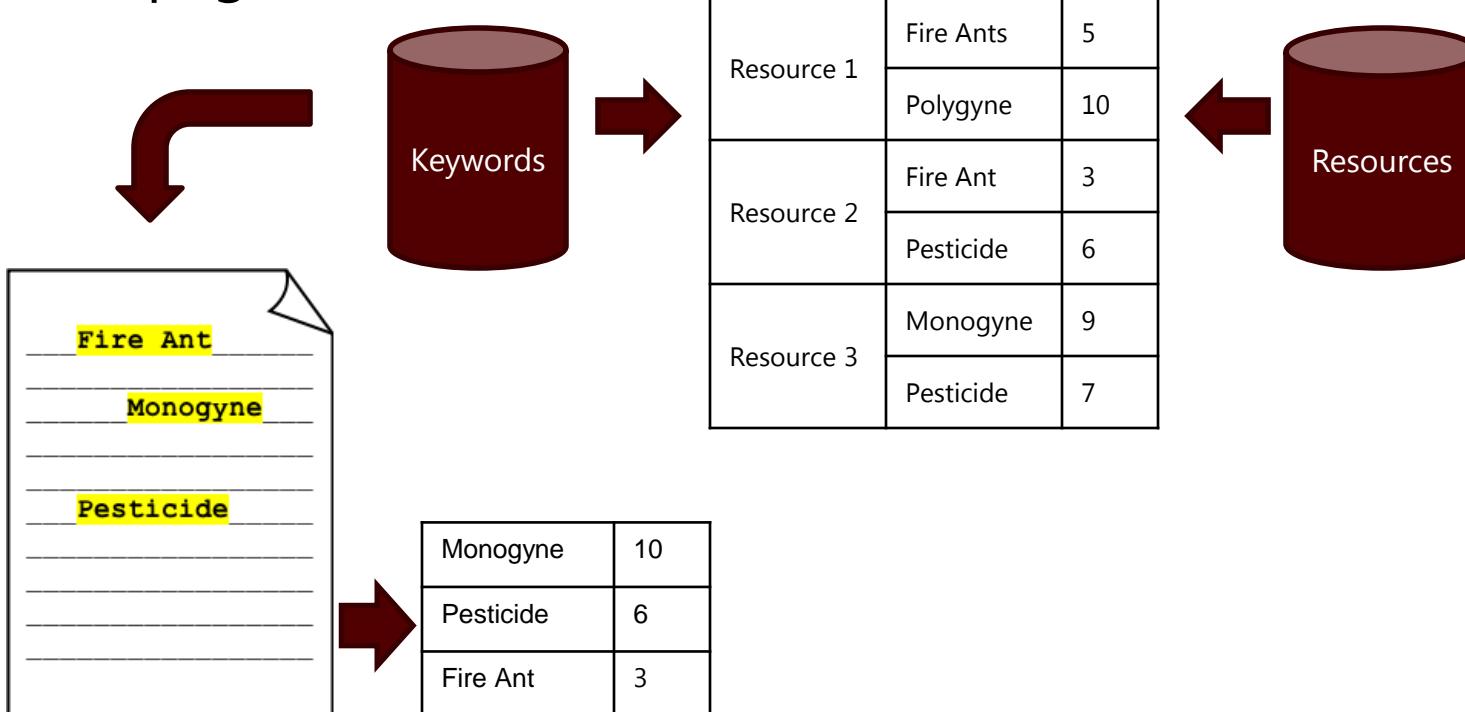
How do we find correlations between contents?

- We check the content of the page that the user is viewing.
- We look for those keywords in the content.



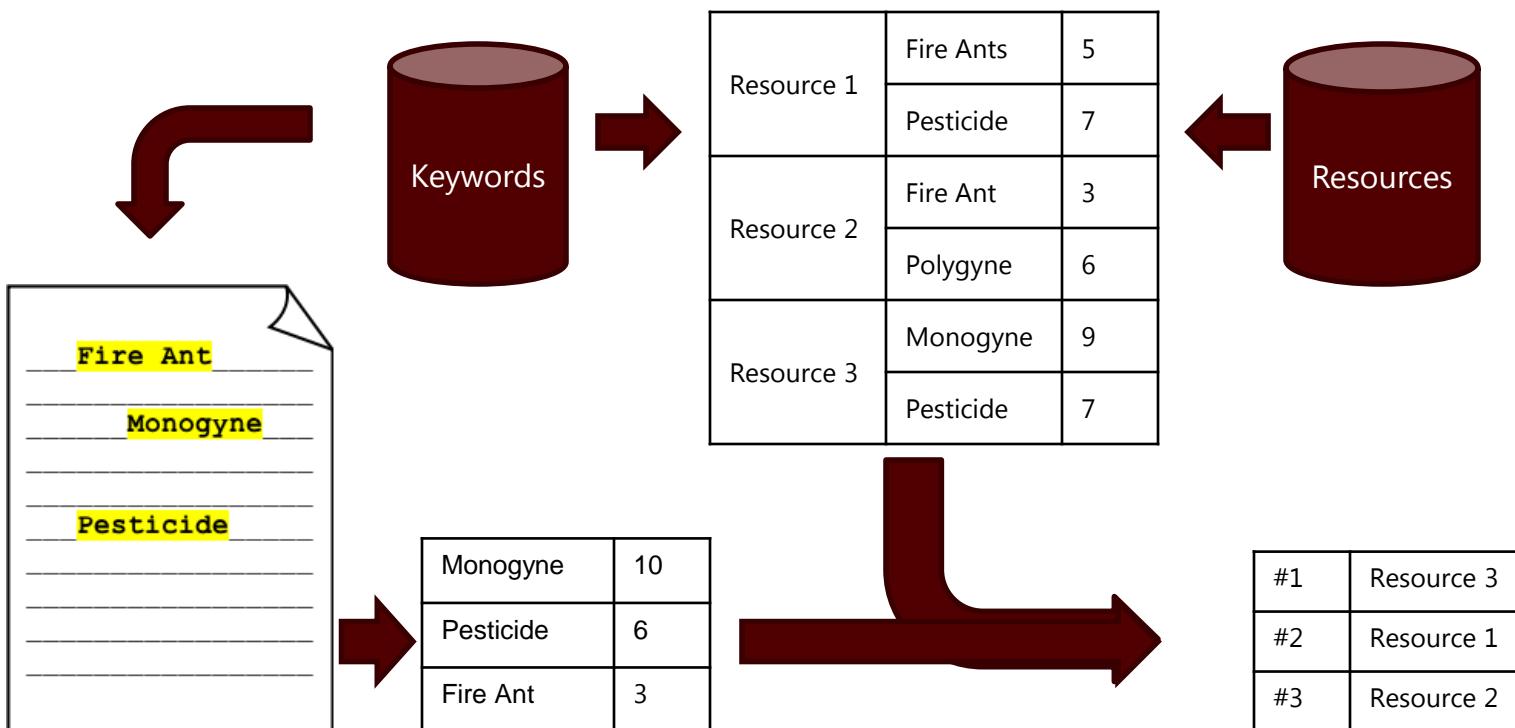
How do we find correlations between contents?

- We will score the keywords on the page based on the mean and standard deviation of its occurrence in our resources and in this page.



How do we find correlations between contents?

- Finally we compare the score of the keywords to the resources and retrieve the top 10.

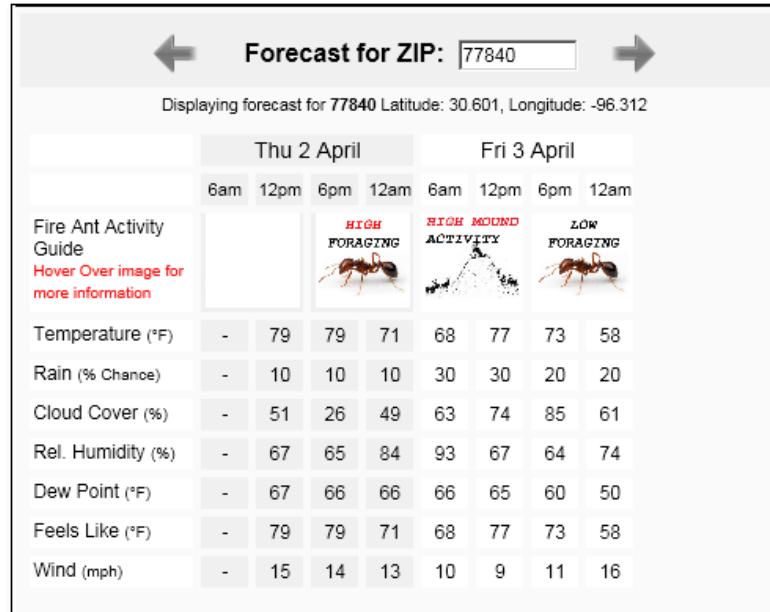


FIRE ANT ACTIVITY PREDICTOR

1 2 3 4 5 **6** 7 8 9 10 11 12 13

What does it do?

- Based the weather forecast, we provide a prediction of the activities of the Fire Ants up to a week.
- To retrieve the forecast, this widget receives a Zip code.



Widget's Interface

Forecast for ZIP:

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

	Thu 2 April				Fri 3 April			
	6am	12pm	6pm	12am	6am	12pm	6pm	12am
Fire Ant Activity Guide								
Temperature (°F)	-	79	79	71	68	77	73	58
Rain (% Chance)	-	10	10	10	30	30	20	20
Cloud Cover (%)	-	51	26	49	63	74	85	61
Rel. Humidity (%)	-	67	65	84	93	67	64	74
Dew Point (°F)	-	67	66	66	66	65	60	50
Feels Like (°F)	-	79	79	71	68	77	73	58
Wind (mph)	-	15	14	13	10	9	11	16

User can go to the next/previous day using the arrows.

Widget's Interface

Forecast for ZIP: 77840

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

	Thu 2 April				Fri 3 April			
	6am	12pm	6pm	12am	6am	12pm	6pm	12am
Fire Ant Activity Guide								
Temperature (°F)	-	79	79	71	68	77	73	58
Rain (% Chance)	-	10	10	10	30	30	20	20
Cloud Cover (%)	-	51	26	49	63	74	85	61
Rel. Humidity (%)	-	67	65	84	93	67	64	74
Dew Point (°F)	-	67	66	66	66	65	60	50
Feels Like (°F)	-	79	79	71	68	77	73	58
Wind (mph)	-	15	14	13	10	9	11	16

The weather forecast is shown for every 6 hours.

Widget's Interface

Forecast for ZIP: 77840

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

Thu 2 April				Fri 3 April				
	6am	12pm	6pm	12am	6am	12pm	6pm	12am
Fire Ant Activity Guide								
Temperature (°F)	-	79	79	71	68	77	73	58
Rain (% Chance)	-	10	10	10	30	30	20	20
Cloud Cover (%)	-	51	26	49	63	74	85	61
Rel. Humidity (%)	-	67	65	84	93	67	64	74
Dew Point (°F)	-	67	66	66	66	65	60	50
Feels Like (°F)	-	79	79	71	68	77	73	58
Wind (mph)	-	15	14	13	10	9	11	16

The predicted activity type is shown with an image.

Widget's Interface

User can hover over the image for detailed description of the activity type and a guidance on how to manage the Fire Ants while they are in this state.

Forecast for ZIP: 77840

Displaying forecast for 77840 Latitude: 30.601, Longitude: -96.312

Thu 2 April				Fri 3 April			
6am	12pm	6pm	12am	6am	12pm	6pm	12am
79	71	68	77	73	58		
10	10	30	30	20	20		
26	49	63	74	85	61		
65	84	93	67	64	74		
66	66	66	65	60	50		
79	71	68	77	73	58		
14	13	10	9	11	16		

HIGH FORAGING ACTIVITY

BIOLOGY:
Fire Ants will actively forage when soil temperatures are above 60°F. Foraging activity is highest between ambient temperatures of 70°F and 90°F. Despite high activity, ants may not be particularly noticeable. Food items are transported from foraging sites to the nest through a network of tunnels just below the vegetation or soil surface.

MANAGEMENT:
Bait applications are most effective when foraging activity is high.

ENVIRONMENTAL INFORMATION WIDGET

1

2

3

4

5

6

7

8

9

10

11

12

13

What does it do?

- This widget aims to provide a quick peek to the environmental information of a specified latitude and longitude.
- The information categories include
 - Soil type
 - Daily and monthly climate history
 - Elevation
- The widget is designed in such a way that adding a new third party information category can be done easily.

Widget's Interface

Different categories of information are provided.

The screenshot shows a user interface for a geographical information system. At the top, there is a text input field labeled "Enter 'Lat, Lon'" containing the coordinates "30.6014, -96.3144". Below this is a "Soil" section. Further down is a "Climate" section with a dropdown menu set to "Daily". The next section is "Topography", which displays "Elevation:-1 meters". At the bottom of the interface is an "About" section.

Widget's Interface

User can specify a latitude and longitude and hit refresh to get the environmental information

The screenshot shows a user interface for environmental data. At the top, there is a text input field with the placeholder "Enter 'Lat, Lon'" containing the coordinates "30.6014, -96.3144". Below this is a "Soil" section. Under "Climate", there is a dropdown menu set to "Daily". A horizontal line separates this from the "Topography" section, which includes the text "Elevation:-1 meters". Another horizontal line separates this from the "About" section.

Enter "Lat, Lon"
30.6014, -96.3144

Soil

Climate

Daily

Topography

Elevation:-1 meters

About

Widget's Interface

The screenshot shows a desktop application window titled "KelSoils". On the left, there is a sidebar with a search bar for "Lat, Lon" (30.6014, -96.3144) and a dropdown menu. The main content area displays a soil profile diagram with four horizons labeled H1 through H4, and a bedrock layer at the bottom. The diagram shows increasing depth from 0cm to 152cm. To the left of the diagram, the horizon labels are listed vertically. A red callout box with a red arrow points to the "Soil" category in the sidebar, containing text about clicking to open detailed information.

Enter "Lat, Lon"
30.6014, -96.3144 C

Soil In Climate Daily

Topography Elevation-1 meters

About

KelSoils

Feels Like

* Map unit consist of 1 or more soil types:
Zack

Soil Data

- Soil Type: Zack-Urban land complex, 1 to 5 percent slopes
- Map Unit Type: Complex
- Map Unit Symbol: ZCB

* This profile has 4 horizons.

Horizons

H1

H2

H3

H4

Bedrock

0cm
18cm
71cm
89cm
152cm

See Raw Data
Service Description:
SSURGO Soil Profile
See More

Clicking on each category opens a dialog box with the detailed information.

LANDSCAPE MANAGEMENT TOOL

1 2 3 4 5 6
7 8 9 10 11 12 13

What does it do?

- The landscape management tool assists the land owner to manage their Fire Ant issues.
- This tool aims to provide guidance in:
 - creating a map of a landscape and saving it for future use.
 - specifying the type of land and details in the landscape.
 - estimating the cost of treatment based on the product type and treatment frequency.

Tool's interface

1. Create Landscape
2. Set Treatments
3. Monitor and Treat

Create or Edit a landscape.

Landscape Name:

Landscape Description:

Add Area
Add Path / Road / River
Check Landscape

2D 3D Road Aerial Bird's eye <<



Area name	Landcover	Area (acres)	Edit
Texas A&M University	Urban	2154	2347
Texas A&M Golf Course	Green	234	234
Reed Arena	Urban	600	600

Lat: 30.6173, Lon: -96.3242
Type address here...
search

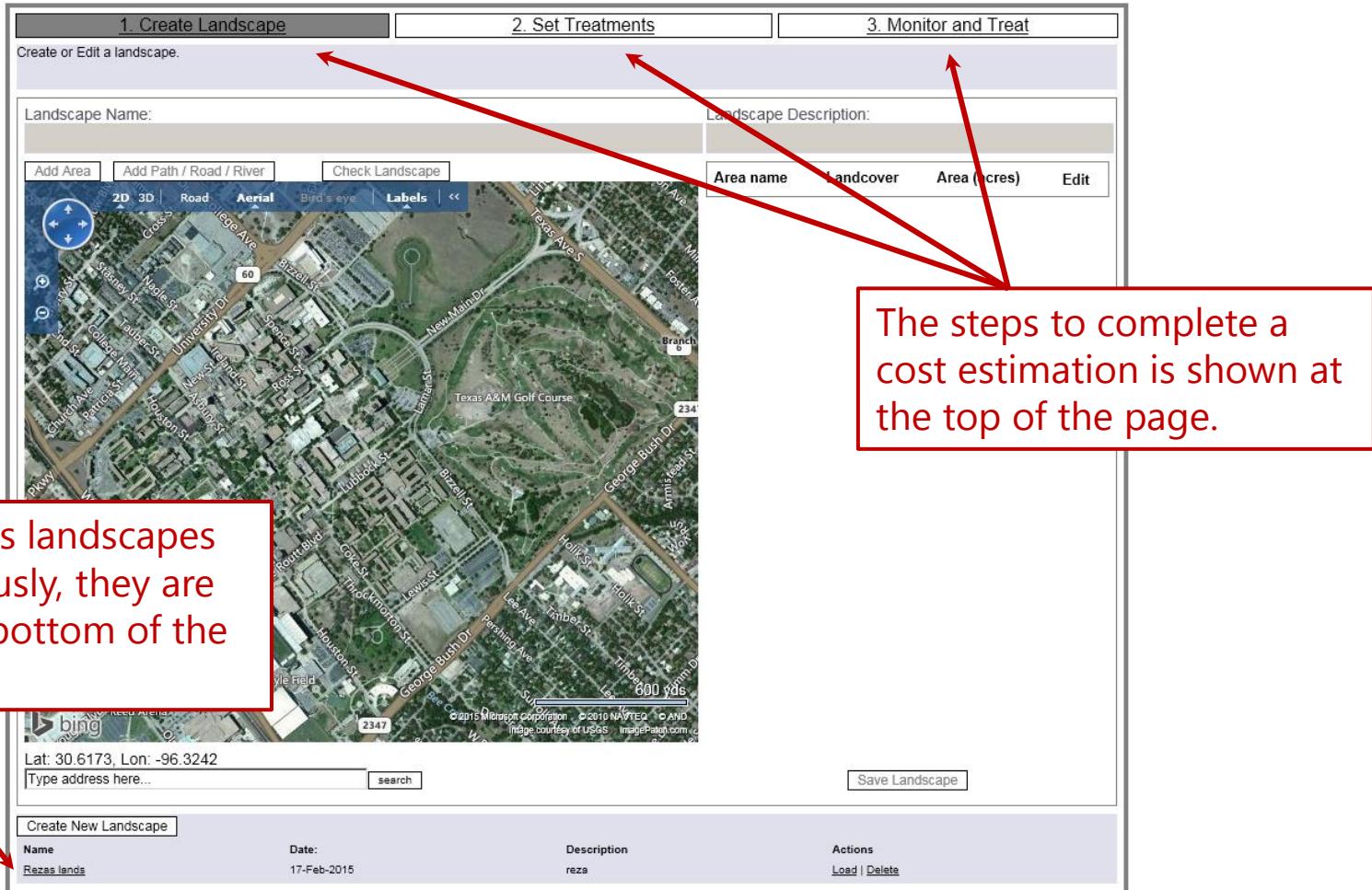
Create New Landscape

Name: <input type="text" value="Rezas lands"/>	Date: <input type="text" value="17-Feb-2015"/>	Description: <input type="text" value="reza"/>	Actions: <input type="button" value="Load Delete"/>
--	--	--	---

Tool's interface

The steps to complete a cost estimation is shown at the top of the page.

If the user has landscapes saved previously, they are listed at the bottom of the page.



1. Create Landscape 2. Set Treatments 3. Monitor and Treat

Create or Edit a landscape.

Landscape Name:

Landscape Description:

Add Area Add Path / Road / River Check Landscape

2D 3D Road Aerial Bird's eye Labels

Lat: 30.6173, Lon: -96.3242 Type address here... search Save Landscape

Create New Landscape

Name	Date:	Description	Actions
Rezas lands	17-Feb-2015	reza	Load Delete

Tool's interface

User can create a new landscapes.



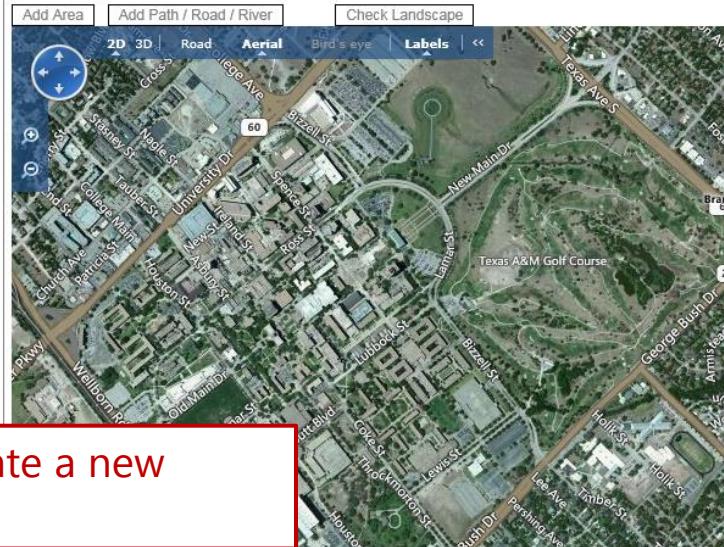
Lat: 30.6173, Lon: -96.3242

Type address here... search

Create New Landscape

Name <input type="text" value="Rezas lands"/>	Date: 17-Feb-2015	Description <input type="text" value="reza"/>	Actions
--	----------------------	--	----------------

User can load (edit) or delete saved landscapes.



Landscape Name:

Landscape Description:

Area name	Landcover	Area (acres)	Edit
Branch 0		234	

Save Landscape

Load | Delete

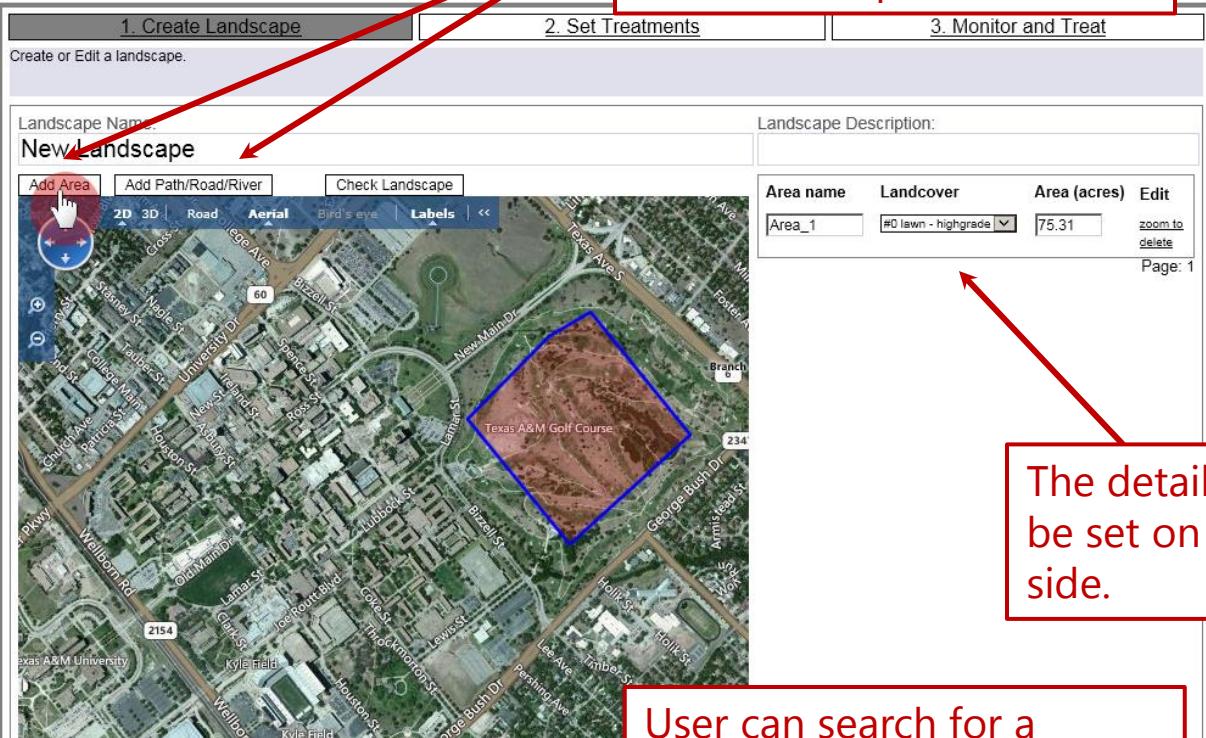
Creating a landscape

Once the user clicks on "Create New Landscape" button, the editing tools become active.

User can create a new landscapes.



Creating a landscape



The user can add areas or remove rivers and roads from landscape.

Area name	Landcover	Area (acres)	Edit
Area_1	#0 lawn - highgrade	75.31	zoom to delete

Page: 1

User can search for a specific address.

Lat: 30.6127, Lon: -96.3250

Type address here...

[Create New Landscape](#)

Name: Rezas lands

Date: 17-Feb-2015

Description: reza

Actions: [Load](#) | [Delete](#)

Creating a landscape

1. Create Landscape
2. Set T

Create or Edit a landscape.

Landscape Name: **New Landscape**

[Add Area](#) [Add Path/Road/River](#) [Check Landscape](#)

2D **3D** [Road](#) [Aerial](#) [Bird's eye](#) [Labels](#) [<<](#)



The map shows a blue polygon drawn over the Texas A&M Golf Course area on the campus. The polygon is roughly rectangular with rounded corners, covering a significant portion of the golf course. The map includes street names like College Station, University Dr, and New Main Dr, along with various buildings and roads.

Once all the areas are added and rivers and roads are specified, user should click on "Check Landscape" to remove overlapping areas and calculate the accurate total area.

[Area_1](#) [#1 town - high grade](#) [/ 5.31](#)

[zoom to delete](#)

Page: 1

Lat: 30.6127, Lon: -96.3250

Type address here...

[Create New Landscape](#)

Name	Date:	Description	Actions
Rezas lands	17-Feb-2015	reza	Load Delete

Creating a landscape

The user can set a name and description for the landscape.

1. Create Landscape

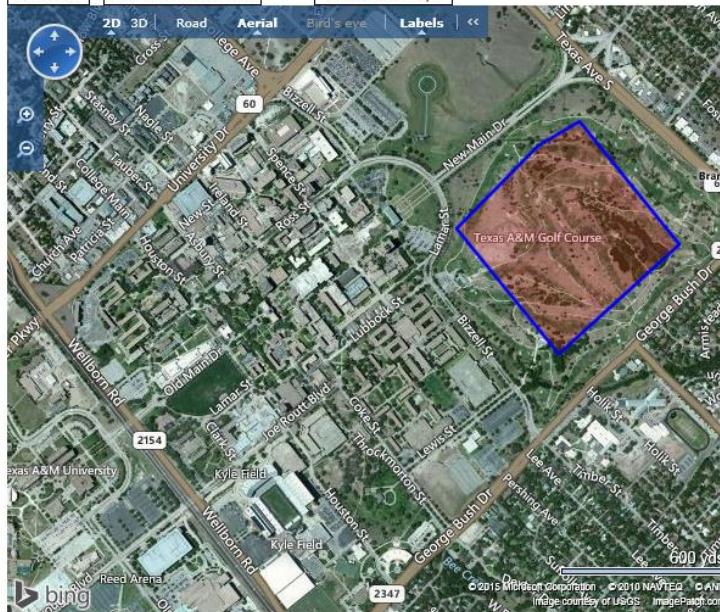
Create or Edit a landscape.

Landscape Name: **Reza** 

Landscape Description: This is a test

Add Area Add Path/Road/River Check Landscape

2D 3D Road Aerial Bird's eye Labels <>



Area name Landcover Area (acres) Edit

Area_1	#0 lawn - highgrade	75.31	zoom to delete
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Page: 1

Lat: 30.6248, Lon: -96.3243

Type address here... Save Landscape

Create New Landscape

Name	Date:	Description	Actions
Rezas lands	17-Feb-2015	reza	Load Delete

Creating a landscape

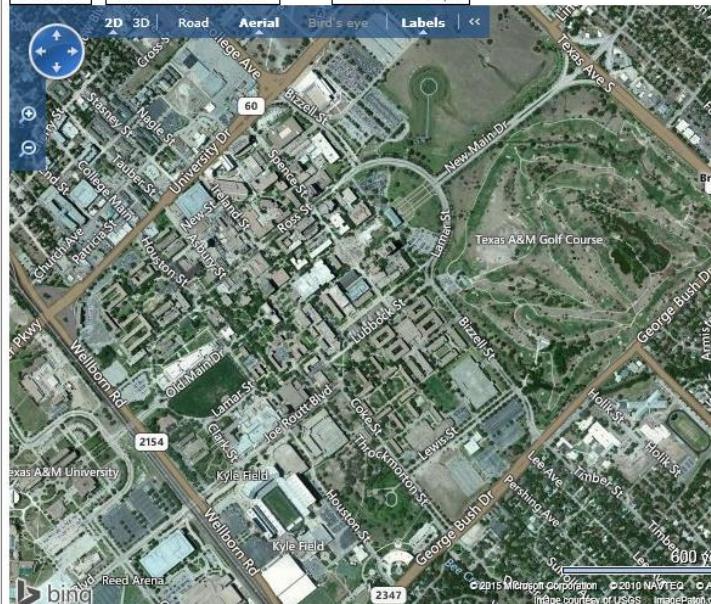
1. Create Landscape
2. Set Treatments
3. Monitor and Treat

Create or Edit a landscape.

Landscape Name:
New Landscape

Add Area | Add Path / Road / River | Check Landscape

2D | 3D | Road | **Aerial** | Bird's eye | <>



bing

Lat: 0, Lon: 0
Type address here... search

Create New Landscape

Name: <u>Reza</u>	Date: 3-Apr-2015	Description: This is a test	Actions: Load Delete
Rezas lands	17-Feb-2015	reza	Load Delete

Landscape Description:

Area name	Landcover	Area (acres)	Edit

Finally, by clicking on "Save Landscape" it will be added to our database and to the list at the bottom of the page.

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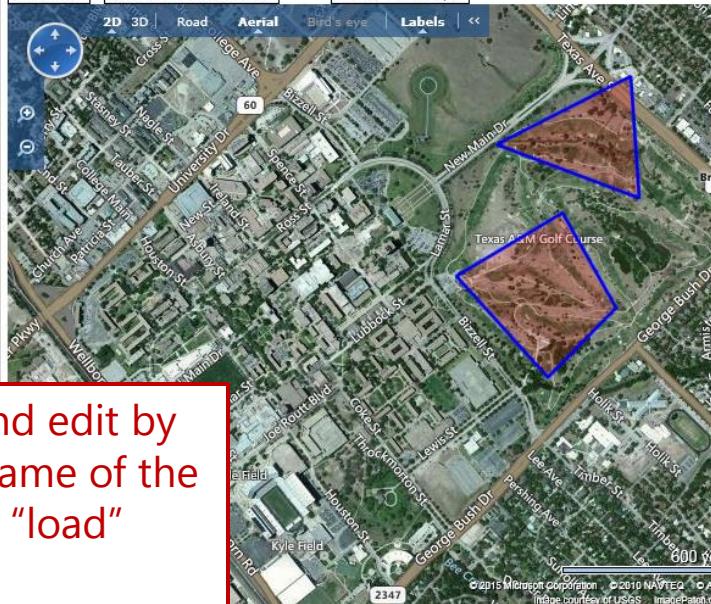
→

<div style="position: absolute; bottom: 50px; right: 3840px; font

Loading and editing a landscape

1. Create Landscape
2. Set Treatments
3. Monitor and Treat

Create or Edit a landscape.

Landscape Name: <input type="text" value="Rezas lands"/>	Landscape Description: <input type="text" value="reza"/>												
<input type="button" value="Add Area"/> <input type="button" value="Add Path / Road / River"/> <input type="button" value="Check Landscape"/>	<input type="button" value="Labels"/>												
													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Area name</th> <th style="width: 15%;">Landcover</th> <th style="width: 15%;">Area (acres)</th> <th style="width: 15%;">Edit</th> </tr> </thead> <tbody> <tr> <td>a1</td> <td>#0 lawn - highgrade</td> <td>37.49</td> <td><input type="button" value="zoom to delete"/></td> </tr> <tr> <td>a2</td> <td>#0 lawn - highgrade</td> <td>23.73</td> <td><input type="button" value="zoom to delete"/></td> </tr> </tbody> </table>		Area name	Landcover	Area (acres)	Edit	a1	#0 lawn - highgrade	37.49	<input type="button" value="zoom to delete"/>	a2	#0 lawn - highgrade	23.73	<input type="button" value="zoom to delete"/>
Area name	Landcover	Area (acres)	Edit										
a1	#0 lawn - highgrade	37.49	<input type="button" value="zoom to delete"/>										
a2	#0 lawn - highgrade	23.73	<input type="button" value="zoom to delete"/>										
Page: 1													

User can load and edit by clicking on the name of the landscape or the "load" button.

Once the landscape is loaded, the selected areas are shown on the map with their details on the right-hand side of the map which can be edited.

Lat: 30.6123, Lon: -96.3246

Type address here...

Name:

Date: 17-Feb-2015

Description: reza

Actions:

Setting Treatment

Once the landscape is saved, the user can move on to setting a treatment option.

1. Create Landscape 2. Set Treatments 3. Monitor and Treat

Create or Edit a landscape.

Landscape Name: Reza

Landscape Description: This is a test

Add Area Add Path / Road / River Check Landscape

2D 3D Road Aerial Bird's eye Labels <<

Area name Landcover Area (acres) Edit

Area_1 #0 lawn - highgrade 75.31 zoom to delete

Page: 1

Texas A&M Golf Course

Lat: 30.6138, Lon: -96.3243

Type address here... search Save Landscape

Create New Landscape

Name	Date:	Description	Actions
Reza	3-Apr-2015	This is a test	Load Delete
Rezas lands	17-Feb-2015	reza	Load Delete

Setting Treatment

1. Create Landscape 2. Set Treatments 3. Monitor & Report

Set landscape treatments.

Landscape Name: Reza

Landscape Description: This is a test

Map View: 2D | 3D | Road | Aerial | Bird's eye | Labels | <>

Type address here... search

Lat: 0, Lon: 0, Bearing: 0

Save Treatment

Area name	Landcover	Area (acres)	Broadcast Product	Broadcast Product Cost
Total		0.00	\$ 0.00	????
Area_1	#0-lawn-highgrade	75.31	select	Andro
			select	Andro Pro
				Probait
				Maxforce Fire Ant Granular Bait
				Fertiome Come and Get it
				TopChoice
				Advison
				Ascend
				Advance 375 A Fire Ant Bait
				Award
				Extinguish
				Extinguish Plus
				Distance/Esteem
				Andro
				Andro Pro
				Probait
				Maxforce Fire Ant Granular Bait
				Fertiome Come and Get it
				TopChoice
				Advison
				Ascend
				Advance 375 A Fire Ant Bait
				Award
				Extinguish
				Extinguish Plus
				Distance/Esteem

Description: This is a test

Name: Reza

Date: 3-Apr-2015

Description: reza

Actions: Load | Delete

Name: Rezas lands

Date: 17-Feb-2015

Actions: Load | Delete

The user can pick a treatment option by hovering over the "Select" menu.

Manufactured by:	Bayer
Active Ingredient:	1.0% Hydramethylnon
Approximate Cost per Acre (\$):	13.06
Application Rate (lbsacre):	1 - 2
Label Restrictions:	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

By hovering over each option the details of that option will be shown.

Setting Treatment

Once the user clicks on one option, the estimated cost will be set.

Lastly, the user should click on "Save Treatment" to store the current treatment options for the selected landscape.

1. Create Landscape 2. Set Treatments

Landscape Name: Reza

Landscape Description: This is a test

Area name	Landcover	Area (acres)	Broadcast Product	Broadcast Cost
Total	#0-lawn-highgrade	75.31	select	\$ 1491.19
Area_1		75.31	Extinguish	\$ 1491.19 details

Type address here...
Lat: 30.6158, Lon: -96.3260

Name: Reza
Rezas lands

Date: 3-Apr-2015
17-Feb-2015

Description: This is a test
reza

Actions: Load | Delete
Load | Delete

Save Treatment

Setting a monitoring and treatment actions

1. Create Landscape 2. Set Treatments 3. Monitor and Treat

Set Monitor Stations.

Landscape Name: Reza

Landscape Description: This is a test

Area name Landcover Area (acres) Monitor and Treatment Actions

Area_1	0-lawn-highgrade	75.31	Summary Add
--------	------------------	-------	---

Page: 1

The third step is to set a monitoring and treatment schedule.

Lat: 0, Lon: 0

Type address here...

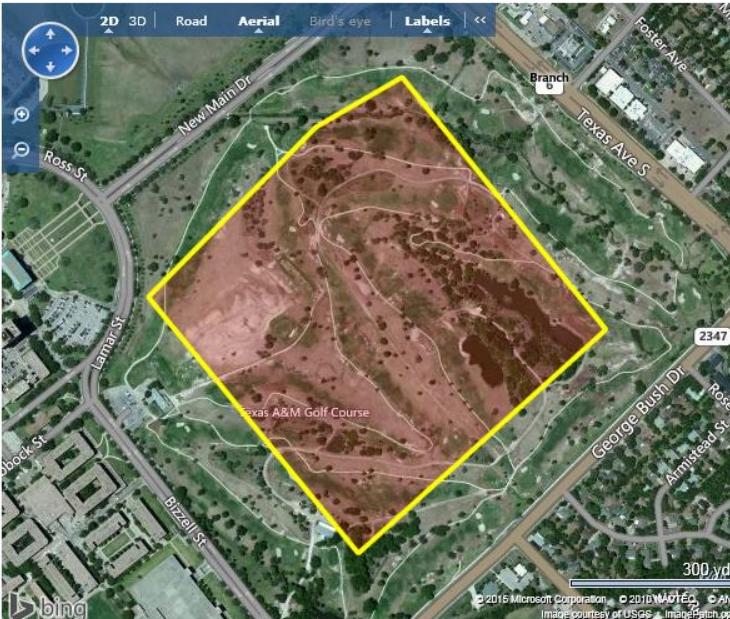
Name	Date:	Description	Actions
Reza	3-Apr-2015	This is a test	Load Delete
Rezas lands	17-Feb-2015	reza	Load Delete

Setting a monitoring and treatment actions

1. Create Landscape
2. Set Treatments
3. Monitor and Treat

Set Monitor Stations.

Landscape Name:
Reza



bing

Lat: 0, Lon: 0
Type address here...

Name	Date:	Description	Actions
Reza	3-Apr-2015	This is a test	Load Delete
Rezas lands	17-Feb-2015	reza	Load Delete

Landscape Description:
This is a test

Area name	Landcover	Area (acres)	Monitor and Treatment Actions
Area_1	0-lawn-highgrade	75.31	Summary Add Page: 1

The user can add the treatment actions.

Setting a monitoring and treatment actions

There are 4 types of actions to report.

1. Create Landscape 2. Set Treatments

Set Monitor Stations.

Landscape Name: Reza

Landscape Description: This is a test

Parcel Details for Area 1

Land Cover: lawn-highgrade

Selected Broadcast Product: Extinguish

Area (acres): 75.31

Select Action to Report:

Broadcast Spot Mound Count Hotdog Sample

Treatment Treatment

Record a Broadcast Treatment

Treatment Date: 4/8/2015

Broadcast Product: Extinguish

Application Rate: 1.25 (lbs/acre)

Approximate Time Taken (hrs): 0

Notes: type additional details here.....

Save Broadcast Treatment

Name	Date	Description	Actions
Reza	3-Apr-2015	This is a test	Load Delete
Rezas lands	17-Feb-2015	reza	Load Delete

Setting a monitoring and treatment actions

There are 4 types of actions to report.

1. Create Landscape 2. Set Treatments

Set Monitor Stations.

Landscape Name: Reza

Landscape Description: This is a test

Parcel Details for Area 1

Land Cover: lawn-highgrade

Selected Broadcast Product: Extinguish

Area (acres): 75.31

Select Action to Report:

Broadcast Spot Mound Count Hotdog Sample

Treatment Treatment

Record a Broadcast Treatment

Treatment Date: 4/8/2015

Broadcast Product: Extinguish

Application Rate: 1.25 (lbs/acre)

Approximate Time Taken (hrs): 0

Notes: type additional details here.....

Save Broadcast Treatment

Name	Date	Description	Actions
Reza	3-Apr-2015	This is a test	Load Delete
Rezas lands	17-Feb-2015	reza	Load Delete

Setting a monitoring and treatment actions

- User can set and save details for each action.

[NEXT PARCEL](#) | [CLOSE](#)

Parcel Details for: Area_1

Land Cover:	lawn-highgrade		
Selected Broadcast Product:	Extinguish		
Area (acres):	75.31		
Select Action to Report:			
Broadcast	Spot	Mound Count	Hotdog Sample
Treatment	Treatment		

Record a Broadcast Treatment

Treatment Date:	4/8/2015
Broadcast Product:	Extinguish
Application Rate: (lbs/acre)	1.25
Approximate Time Taken (hrs):	0
Notes:	type additional details here.....

Save Broadcast Treatment

[NEXT PARCEL](#) | [CLOSE](#)

Parcel Details for: Area_1

Land Cover:	lawn-highgrade		
Selected Broadcast Product:	Extinguish		
Area (acres):	75.31		
Select Action to Report:			
Broadcast	Spot	Mound Count	Hotdog Sample
Treatment	Treatment		

Record a Mound Treatment

Treatment Date:	4/8/2015
Mound Product:	Extinguish
Application Rate: (lbs/acre)	1.25
Approximate Time Taken (hrs):	0
Number of Mounds Treated:	5
Notes:	type additional details here.....

Save Mound Treatment

[NEXT PARCEL](#) | [CLOSE](#)

Parcel Details for: Area_1

Land Cover:	lawn-highgrade		
Selected Broadcast Product:	Extinguish		
Area (acres):	75.31		
Select Action to Report:			
Broadcast	Spot	Mound Count	Hotdog Sample
Treatment	Treatment		

Record Mound Count

Date of count:	4/8/2015
Number of Mounds:	0
Area Counted:	0
Approximate Time Taken (hrs):	0
Notes:	type additional details here.....

Save Mound Survey

[NEXT PARCEL](#) | [CLOSE](#)

Parcel Details for: Area_1

Land Cover:	lawn-highgrade		
Selected Broadcast Product:	Extinguish		
Area (acres):	75.31		
Select Action to Report:			
Broadcast	Spot	Mound Count	Hotdog Sample
Treatment	Treatment		

Record Hot Dog Survey

Date of Sample:	4/8/2015
Add a sample:	enter a number (0-100 %)
All Hotdog Samples: (Click on sample to remove)	Enter Values
Approximate Time Taken (hrs):	0.15
Notes:	

Save Hotdog Survey

Treatment action summary

- Once the actions are saved, they will appear in the summary section for the user to review.

[NEXT PARCEL](#) | [CLOSE](#)

Area_1

Mound Survey Number of Mounds: 30 Area Surveyed: 75 acres												Broadcast Treatment Product: Award Rate:1.25 lbs/acre			
Broadcast Treatment Product: Extinguish Rate:1.25 lbs/acre												HotDog Survey No of Hotdogs: 1 Average :10			
Mound Treatment Product: Fertilome Come and Get it Rate:3.75 lbs/acre Mounds Treated:5												Record Mound Count Date of count: <input type="text" value="4/7/2015"/> Number of Mounds: <input type="text" value="30"/> Area Counted: <input type="text" value="75"/> Approximate Time Taken (hrs): <input type="text" value="20"/> Notes: <div style="border: 1px solid #ccc; padding: 5px; height: 100px; width: 100%;">type additional details here.....</div>			

00 04:00 08:00 12:00 16:00 20:00 00:00 04:00 08:00 12:00 16:00 20:00 00:00
Tuesday 7 April 2015 Wednesday 8 April 2015 Thursday

Date	Action Type	Details	Edit
7-Apr-2015	Mound Survey	Mound Density: 0.40 mounds per acre	view
8-Apr-2015	Mound Treatment	5 mounds treated with Fertilome Come and Get it at 3.75 lbs/acre	view
8-Apr-2015	Broadcast Treatment	Product: Award at 1.25 lbs/acre	view
8-Apr-2015	Hotdog Survey	Average per Hotdog: 10	view
8-Apr-2015	Broadcast Treatment	Product: Extinguish at 1.25 lbs/acre	view

Page: 1 2 3

[Delete Mound Survey](#)

Treatment action summary

The diagram shows the treatment schedule (timeline).

Area_1

The timeline diagram illustrates the sequence of treatments and surveys for Area_1. The timeline spans from Tuesday, April 7, 2015, to Thursday, April 8, 2015. Key events include:

- Mound Survey:** Performed on Tuesday, April 7, 2015, covering 75 acres with 30 mounds.
- Broadcast Treatment:** Product: Award, Rate: 1.25 lbs/acre, performed on Wednesday morning.
- Broadcast Treatment:** Product: Extinguish, Rate: 1.25 lbs/acre, performed on Wednesday afternoon.
- HotDog Survey:** No of Hotdogs: 1, Average :10, performed on Wednesday afternoon.
- Mound Treatment:** Product: Fertilome Come and Get it, Rate: 3.75 lbs/acre, Mounds Treated: 5, performed on Wednesday evening.

Record Mound Count

Date of count: 4/7/2015
 Number of Mounds: 30
 Area Counted: 75
 Approximate Time Taken (hrs): 20
 Notes: type additional details

The saved actions are listed below the diagram.

Date	Action Type	Details	Edit
7-Apr-2015	Mound Survey	Mound Density: 0.40 mounds per acre	view
8-Apr-2015	Mound Treatment	5 mounds treated with Fertilome Come and Get it at 3.75 lbs/acre	view
8-Apr-2015	Broadcast Treatment	Product: Award at 1.25 lbs/acre	view
8-Apr-2015	Hotdog Survey	Average per Hotdog: 10	view
8-Apr-2015	Broadcast Treatment	Product: Extinguish at 1.25 lbs/acre	view

Page: 1 2 3

Treatment action summary

[NEXT PARCEL](#) | [CLOSE](#)

Area_1

Mound Survey Number of Mounds: 30 Area Surveyed: 75 acres												Broadcast Treatment Product: Award Rate:1.25 lbs/acre						
												Broadcast Treatment Product: Extinguish Rate:1.25 lbs/acre						
												HotDog Survey No of Hotdogs: 1 Average :10						
												Mound Treatment Product: Fertilome Come and Get it Rate:3.75 lbs/acre Mounds Treated:5						
00	04:00	08:00	12:00	16:00	20:00	00:00	04:00	08:00	12:00	16:00	20:00	00:00	04:00	08:00	12:00	16:00	20:00	00:00
Tuesday 7 April 2015						Wednesday 8 April 2015						Thursday						

[Delete Mound Survey](#)

Date	Action Type	Details
7-Apr-2015	Mound Survey	Mound Density: 0.40 mounds per acre
8-Apr-2015	Mound Treatment	5 mounds treated with Fertilome Come and Get it at 3.75 lbs/acre
8-Apr-2015	Broadcast Treatment	Product: Award at 1.25 lbs/acre
8-Apr-2015	Hotdog Survey	Average per Hotdog: 10
8-Apr-2015	Broadcast Treatment	Product: Extinguish at 1.25 lbs/acre

Page: 1 2 3

Edit
view
view
view
view

Actions can choose a specific action to view or delete.

HOME OWNER MANAGEMENT TOOL

1 2 3 4 5 6
7 8 **9** 10 11 12 13

What does it do?

- The home owner management tool is targeted towards the non-expert public for managing their Fire Ant issues.
- This tool aims to provides:
 - simple tool for specify a landscape.
 - calculator of the area of the landscape.
 - estimator for the amount of product required for treatment.
 - cost estimator and comparator for different treatment products.

Tool's interface

USE THIS TOOL TO EXPLORE THE PRODUCTS AVAILABLE TO TREAT FIRE ANTS, AND THE AMOUNT OF PRODUCT YOU WILL NEED TO TREAT YOUR PROPERTY.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT
[\(more details\)](#)



Search for your property using zip code or address.

🔍

Treatment Zones:

Use the buttons below to plot your treatment zones. Use the left mouse button to define boundaries. Use mouse right click or 'stop drawing' button to finish each polygon. You can define multiple treatment zones.

Low Risk
High Risk
No Treatment

Calculate Area
Clear All

2) EXPLORE PESTICIDE OPTIONS:
 Select products from the list of home use pesticides below. Choose the number of treatments per year based on the product, your local ant population, your budget, and the degree of control you would like to achieve.

◀








▶

Product	Selected Pesticide				Comparison Product 1			Comparison Product 2		
	Manufacturer	Product 1		Product 2	Product 3	Product 2	Product 3	Product 2	Product 3	
Ingredient										
Application										
Restrictions										
Area Type	Area (acres)	Number of Treatments (per year)	Product Required (lbs/acre)	Cost (lbs/acres)	Product Required (lbs/year)	Estimated Cost (per year)	Product Required (lbs/year)	Estimated Cost (per year)	Product Required (lbs/year)	Estimated Cost (per year)
High Risk	1	2	-	-	-	-	-	-	-	-
Low Risk	0.5	1	-	-	-	-	-	-	-	-
No Treatment	2	0	-	-	-	-	-	-	-	-
Totals:	3.50	3.00	NA	NA	-	-	-	-	-	-

Specifying a Landscape

- First user have to specify a landscape.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT:
(more details)

User can search for a specific address.

Search for your property using zip code or address.

Treatment Zones:

Use the buttons below to plot your treatment zones. Use the left mouse button to define boundaries. Use mouse right click, or 'stop drawing' button to finish each polygon. You can define multiple treatment zones.

Specifying a Landscape

- First user have to specify a landscape.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT:
[\(more details\)](#)

A landscape can be of one the following types.

Search for your property using zip code or address.

Low Risk

High Risk

No Treatment

Calculate Area

Clear All

Specifying a Landscape

- First user have to specify a landscape.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT:
[\(more details\)](#)

Search for your property using zip code or address.

Low risk is a piece of land that contains few Fire Ant mounds.

Treatment Zones:

Use the buttons below to plot your treatment zones. Use the left mouse button to define boundaries. Use mouse right click, or 'stop drawing' button to finish each polygon. You can define multiple treatment zones.

Low Risk

High Risk

No Treatment

Calculate Area

Clear All

Specifying a Landscape

- First user have to specify a landscape.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT:
[\(more details\)](#)

Search for your property using zip code or address.

High risk is a piece of land that requires special attention as it contains several Fire Ant mounds.

Treatment Zones:

Use the buttons below to plot your treatment zones. Use the left mouse button to define boundaries. Use mouse right click, or 'stop drawing' button to finish each polygon. You can define multiple treatment zones.

Low Risk

High Risk

No Treatment

Calculate Area

Clear All

Specifying a Landscape

- First user have to specify a landscape.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT:
[\(more details\)](#)



No treatment is a piece of land that does not require treatment as it does not contain Fire Ant mounds.

Search for your property using zip code or address.

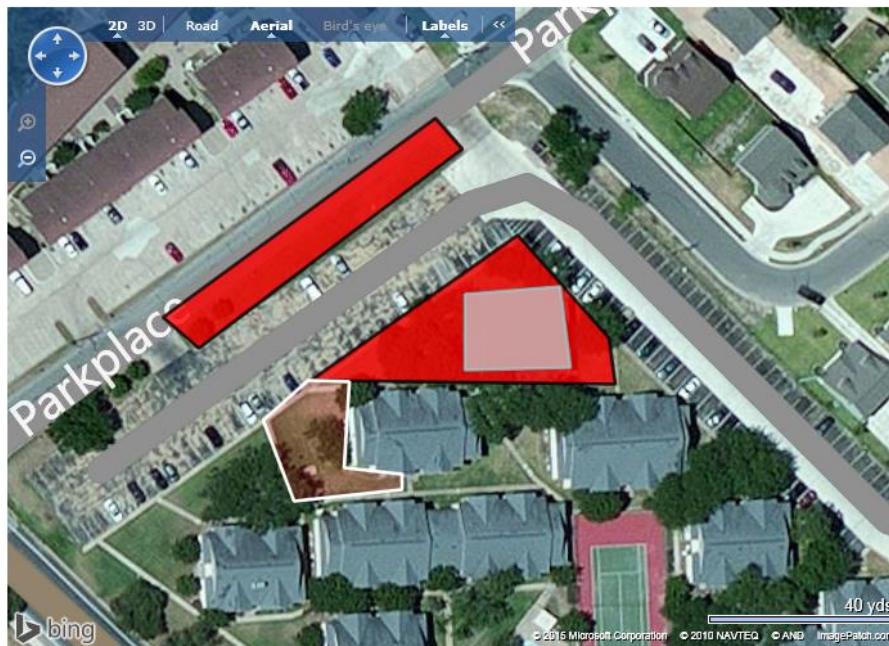
Treatment Zones:

Use the buttons below to plot your treatment zones. Use the left mouse button to define boundaries. Use mouse right click, or 'stop drawing' button to finish each polygon. You can define multiple treatment zones.

Specifying a Landscape

- First user have to specify a landscape.

1) LOCATE YOUR PROPERTY USING THE MAP BELOW. ASSESS AND DELINEATE AREAS OF HIGH AND LOW RISK AND AREAS THAT DO NOT NEED TREATMENT:
(more details)



Search for your property using zip code or address.

77840

Once all the land types are specified, the user have to click on "Calculate Area" to remove overlaps and calculate the area.

High Risk

No Treatment

Calculate Area

Clear All

Selecting and Comparing Products

- Once the area is calculated, the user can move on to the second step.

The total calculated area and the area for each land type is shown in the table.

Application Restrictions	Area (acres)	Number of Treatments (per year)	Product Required (lbs/acre)	Cost (per acre)	Product Required (lbs/year)	Estimated Cost (per year)	Product Required (lbs/year)	Estimated Cost (per year)	Product Required (lbs/year)	Estimated Cost (per year)
High Risk	0.30	2	-	-	-	-	-	-	-	-
Low Risk	0.09	1	-	-	-	-	-	-	-	-
No Treatment	0.08	0	-	-	-	-	-	-	-	-
Totals:	0.387707	3.00	NA	NA	-	-	-	-	-	-

Selecting and Comparing Products

- User can select up to 3 products to compare. The first product is shown in more details.

User has to click on the product image to see the details below.

Select products from the list or home use pesticides below. Choose the number of treatments per year based on the product, your local ant population, your budget, and the degree of control you would like to achieve.

Product	Manufacturer	Selected Pesticide	Comparison Product					
Product		Extinguish Plus	Siesta					
Manufacturer		Wellmark International	BASF					
Ingredient		0.25% s-methoprene and 0.36% hydramethylnon	0.063% metaflumizone					
Application		1.5	1.5					
Restrictions			Requires low-volume spreader					
Area Type	Area (acres)	Number of Treatments (per year)	Product Required (lbs/acre)	Cost (per acre)	Product Required (lbs/year)	Estimated Cost (per year)	Product Required (lbs/year)	Estimated Cost (per year)
High Risk	0.30	2	1.5	16	0.90	9.65	0.90	9.04
Low Risk	0.09	1	1.5	16	0.13	1.38	0.13	0.13
No Treatment	0.08	0	1.5	16	0.00	0.00	0.00	0.00
Totals:	0.46	3.00	NA	NA	1.03	11.03	1.03	10.33

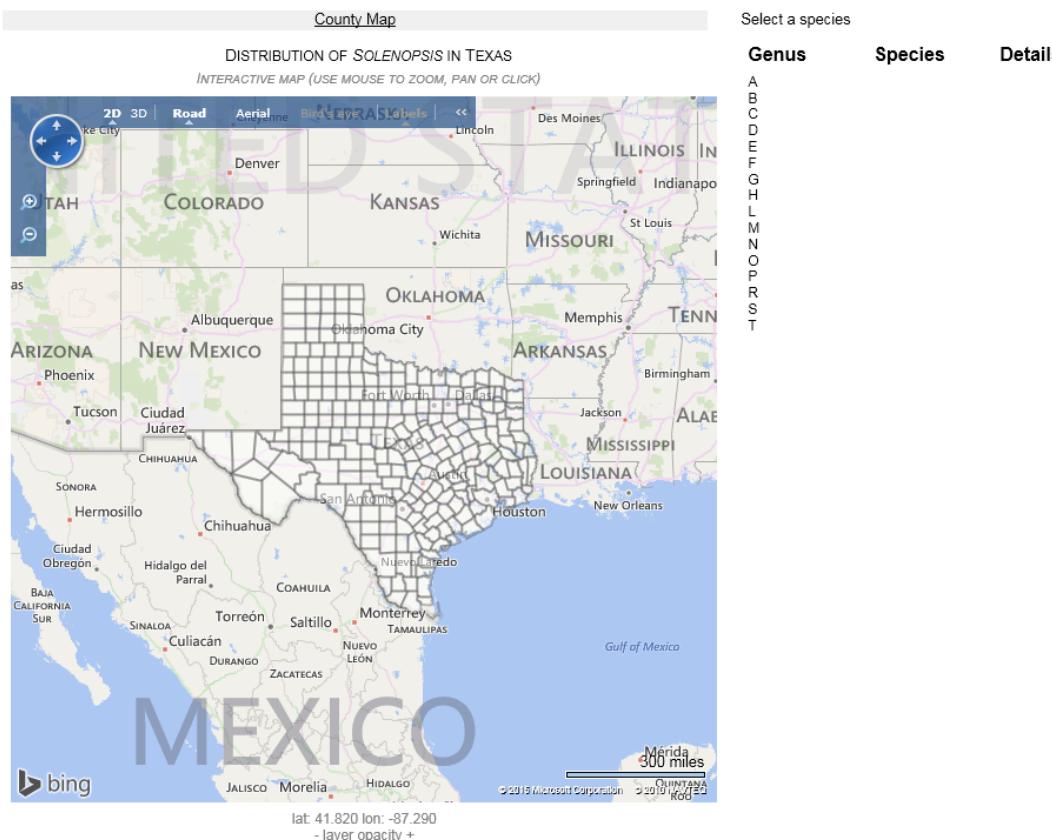
The table shows the details of the selected products.

TEXAS ANT DISTRIBUTION MAP

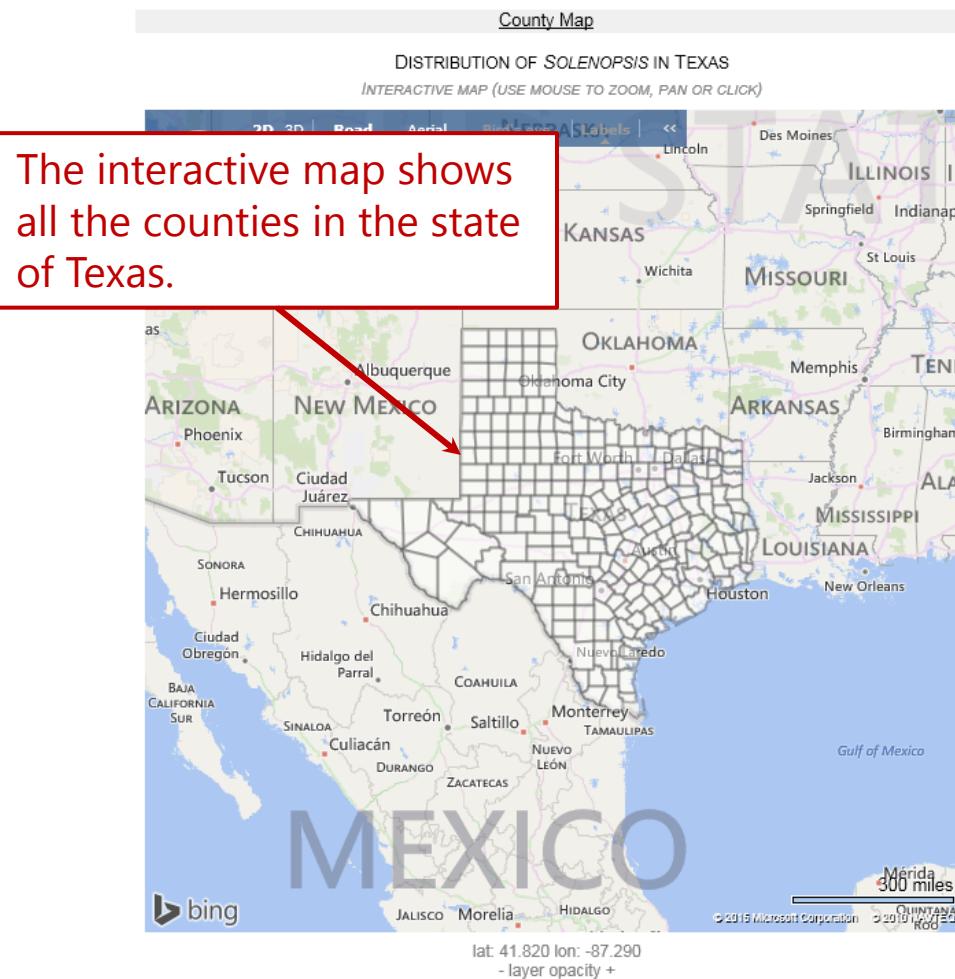
1 2 3 4 5 6
7 8 9 **10** 11 12 13

What does it do?

- This map illustrates the distribution of different Fire Ant genus and species across the state of Texas.



Getting Distribution



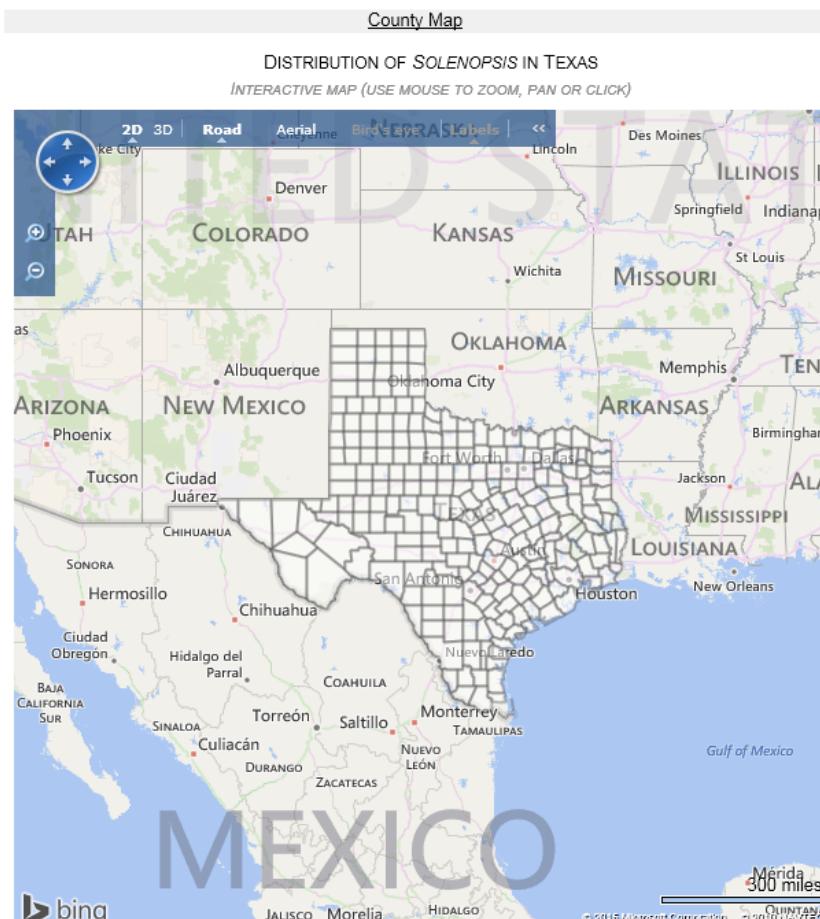
Select a species

Genus

A
B
C
D
E
F
G
H
L
M
N
O
P
R
S
T

Genera are grouped by their first letter.

Getting Distribution



Select a species

Genus Species Details

A
B
C
D
E
F
G
H
I
M
N
O
P
R
S

User first selects the initial of the genus.

Getting Distribution



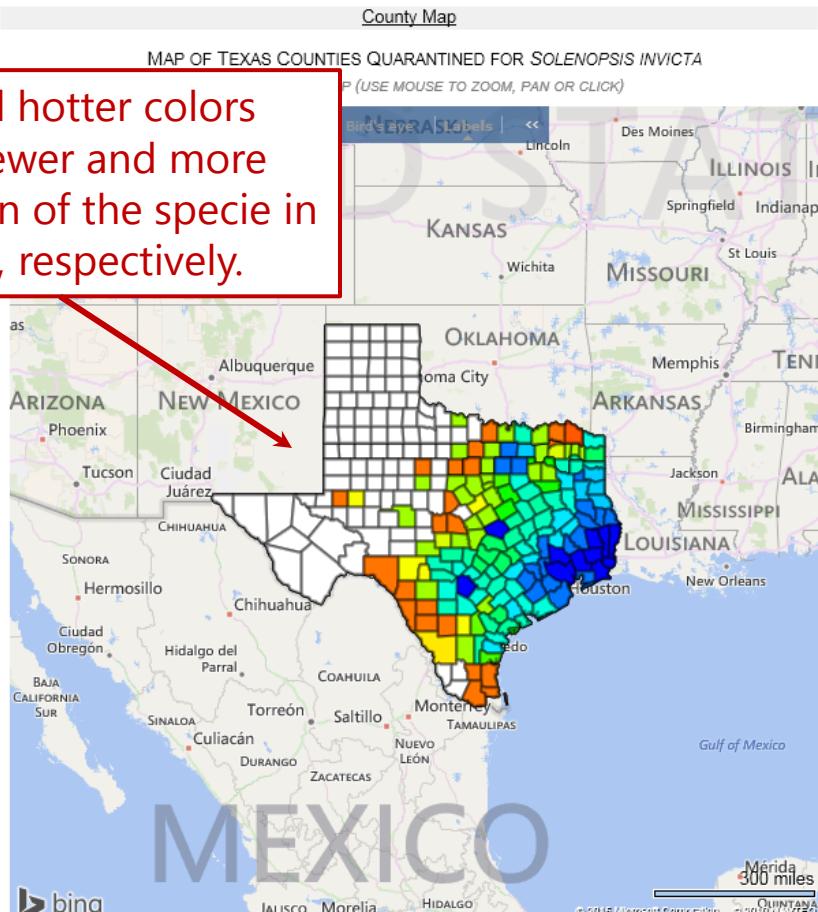
Select a species

Genus	Species	Details
A		
B		
C		
D		
E		
F		
G		
H		
L		
M		
N		
O		
P		
R		
S		
Solenopsis		
Strumigenys		
Solenopsis	Smithistruma	
Smithistruma		
Soleopsis		
Smithistruma		
Stenamma		
Solenopsis		
Smithistruma		
Solenopsis		
Smithistruma		
Solenopsis		
Strumigenys		
T		

From the list of the genera, one should be selected.

Getting Distribution

Colder and hotter colors illustrate fewer and more observation of the specie in the county, respectively.



Select a species

Genus

A
B
C
D
E
F
G
H
L
M
N
O
P
R
S

Solenopsis
Strumigenys

Solenopsis
Smithistruma
Solenopsis
Smithistruma
Stenamma
Solenopsis
Smithistruma
Solenopsis
Smithistruma
Solenopsis
Solenopsis
Strumigenys
T

Species Details

aurea
krockowi
xylonii
pilosula
invicta
sa
molesta
tennesseensis
geminata
subterranea
picta
puncticeps
texana
amblychila

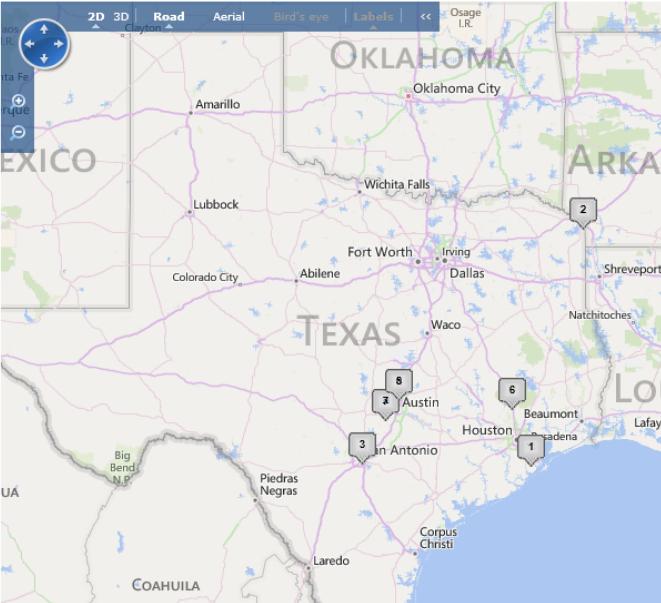
Finally, the specie is selected, which will update the distribution map.

MANAGEMENT REPORTS

1 2 3 4 5 6
7 8 9 10 11 12 13

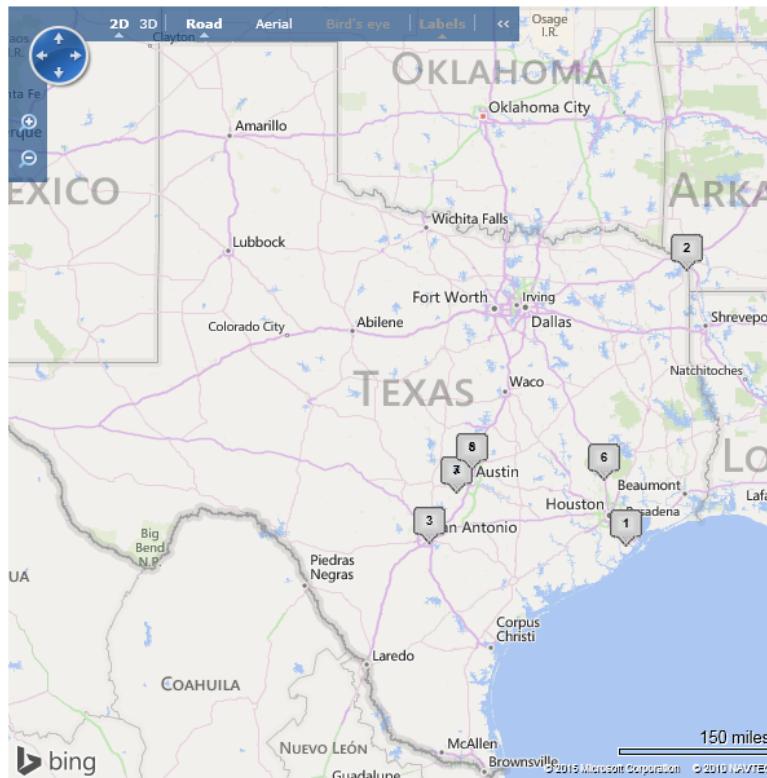
What does it do?

- This page contains reports of officially documented managements and studies. These reports are uploaded by the website administrator.



Pin	Year	Report Title
1	2002	Community-wide red imported fire ant programs in Texas in Program Highlights of the Texas Imported Fire Ant Research and Management Project view
2	2002	Bowie Co., Texas Precinct 4 imported fire ant management initiative. view
3	2010	Fort Sam Houston Final Report view
4	2010	Community wide fire ant management at Belterra in Austin, TX view
5	2010	Community wide fire ant management at Wood Glen in Round Rock, TX view
6	2010	Assessment of Red Imported Fire Ant Management Programs at Tree Lakes Camps, and Camp Casa Mare, Girl Scouts San Jacinto Council view
7	2009	Community wide fire ant management at Belterra in Austin, TX view
8	2009	Community wide fire ant management at Wood Glen in Round Rock, TX view

Downloading/Viewing a Report



Pin	Year	Report Title
1	2002	Community-wide red imported fire ant programs in Texas in Program Highlights of the Texas Imported Fire Ant Research and Management Project view
2	2002	Bowie Co., Texas Precinct 4 imported fire ant management initiative. view
3	2010	Fort Sam Houston Final Report view
4	2010	Community wide fire ant management in Austin, TX view
5	2010	Community wide fire ant management in Round Rock, TX view
6	2010	Assessment of Red Imported Fire Ant Management Program at Tree Lakes Camps, and Camp Casa Mare, Girl Scouts San Jacinto Council view
7	2009	Community wide fire ant management at Belterra in Austin, TX view
8	2009	Community wide fire ant management in Round Rock, TX view
	1	

User can click on "view" button to view a report.

The reports are available in pdf format for download or review.

Authors

Riggs, N. L., L. Lennon, C. L. Barr, B. M. Drees, S. Cummings, and C. Lard

Title

Community-wide red imported fire ant programs in Texas in Program Highlights of the Texas Imported Fire Ant Research and Management Project

page

31

Documents

[SWE_S25_Pp31-41.pdf](#)
[download](#)
[open in new window](#)

Summary:

no summary available

INVASIVE ANT MONITORING TOOL

1 2 3 4 5 6
7 8 9 10 11 **12** 13

What does it do?

- One goal of the Invasive Ant Research program is to develop methods to understand environmental conditions that favor the establishment of Crazy Ants; and their subsequent spread throughout the state.
- Insect specimen records are needed to
 1. Improve the Taxonomic status of invading crazy ants.
 2. Understand the rate and direction of spread of the species.

Tool's Interface

Two species are under study:

- Tawny Crazy Ant
- Argentine Ant

TAWNY (RASPBERRY) CRAZY ANT

ARGENTINE ANT

Tawny (Raspberry) Crazy Ant: *Nylanderia fulva*

Description:
 Individuals are approximately 0.125 in (3.2 mm) and are covered with reddish-brown hairs. Colonies have multiple queens. Individuals often forage on plants, and are known to tend aphids for honeydew. Colonies use loose foraging trails but often forage randomly (non-trailing), moving rapidly and erratically (hence the description 'crazy' ant).



Why do we need records?
 The first colonies were found around Houston (Harris County) in 2002, but have spread to many locations in the South East Like Red Imported Fire Ants. Crazy ants have potential to spread widely throughout Texas and displace other ant species and cause considerable economic damage. Unlike RIFA, this species is not readily attracted to baited pesticides, and little is currently known about its biology. A significant goal of the Crazy Ant Research program is to develop methods to understand environmental conditions that insect specimen records are needed to:

- 1) Improve the Taxonomic status of invading crazy ants.
- 2) Understand rate and direction of spread of the species.

Contribute Information:
Information required: Specimens of *Nylanderia* species linked to a physical location. Winged males especially important (for identification to species level).

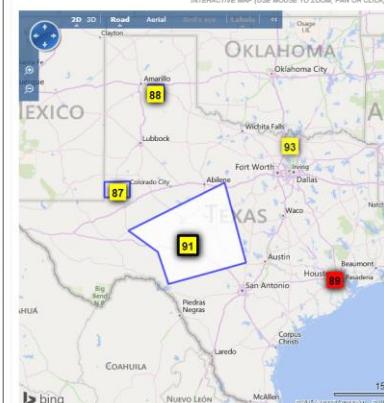
Instructions:

1. Use the link below to enter information about a specimen. The location at which the specimen was collected is especially important.
2. Enter mailing specimen address and attach a copy of the mailing instructions and a form to include with your sample. Print this document. You may wish to have a copy of the form in your records.
3. Detach the mailing address from the printed form. Place the sample in a small envelope with the remainder of the form. Record additional information or contact details on the submitted form.
4. Specimens will be identified, mounted and stored at Texas A&M. Location data will contribute towards *Nylanderia* distribution and risk maps.

[Click here to add a new record](#)

Current Distribution Map:

13 SPECIMENS OF *NYLANDERIA* SP IN TEXAS
INTERACTIVE MAP (USE MOUSE TO ZOOM, PAN OR CLICK)



Map Legend
? Possible Record (Pending validation)
? Certified Record (validated)

Tool's Interface

Two species are under study:

- Tawny Crazy Ant
- Argentine Ant

TAWNY (RASPBERRY) CRAZY ANT

ARGENTINE ANT

Invasive Ants of Immediate Concern:

Tawny (Raspberry) Crazy Ant: *Nylanderia fulva*

Description:

Individuals are approximately 0.125 in (3.2 mm) and are covered with reddish-brown hairs. Colonies have multiple queens. Individuals often forage on plants, and are known to tend aphids for honeydew. Colonies use loose foraging trails but often forage randomly (non-trailing), moving rapidly and erratically (hence the description 'crazy' ant).



Why do we need records?

The first colonies were found around Houston (Harris County) in 2002, but have spread to many locations in the South East Like Red Imported Fire Ants. Crazy ants have potential to spread widely throughout Texas and displace other ant species and cause considerable economic damage. Unlike RIFA, this species is not readily attracted to baited pesticides, and little is currently known about its biology.

A significant goal of the Crazy Ant Research program is to develop methods to understand environmental conditions that insect specimen records are needed to:

- 1) Improve the Taxonomic status of invading crazy ants.
- 2) Understand rate and direction of spread of the species.

Contribute Information:

Information required: Specimens of *Nylanderia* species linked to a physical location. Winged males especially important (for identification to species level).

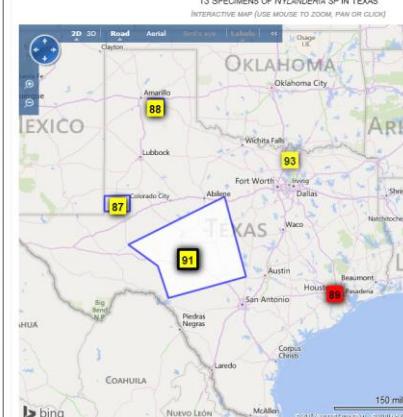
Instructions:

1. Use the link below to enter information about a specimen. The location at which the specimen was collected is especially important.
2. Enter mailing specimen address and attach a copy of the form to your records.
3. Detach the mailing address from the printed form. Place the sample in a small envelope with the remainder of the form. Record additional information or contact details on the submitted form.
4. Specimens will be identified, mounted and stored at Texas A&M. Location data will contribute towards *Nylanderia* distribution and risk maps.

[Click here to add a new record](#)

Current Distribution Map:

13 SPECIMENS OF *NYLANDERIA* SP IN TEXAS
INTERACTIVE MAP (USE MOUSE TO ZOOM, PAN OR CLICK)



Map Legend

- Possible Record (Pending validation)
- Certified Record (validated)

Users can contribute in gathering information.

Contributing

First user should select what type of specie they are contributing to.

Invasive Ants of Immediate Concern:

TAWNY (RASPBERRY) CRAZY ANT

ARGENTINE ANT

Tawny (Raspberry) Crazy Ant: *Nylanderia fulva*

Description:
 Individuals are approximately 0.125 in (3.2 mm) and are covered with reddish-brown hairs. Colonies have multiple queens. Individuals often forage on plants, and are known to tend aphids for honeydew. Colonies use loose foraging trails but often forage randomly (non-trailing), moving rapidly and erratically (hence the description 'crazy' ant).



Why do we need records?
 The first colonies were found around Houston (Harris County) in 2002, but have spread to many locations in the South East Like Red Imported Fire Ants. Crazy ants have potential to spread widely throughout Texas and displace other ant species and cause considerable economic damage. Unlike RIFA, this species is not readily attracted to baited pesticides, and little is currently known about its biology. A significant goal of the Texas Crazy Ant Research program is to develop methods to understand environmental conditions that insect the establishment of Crazy Ants, and their subsequent spread throughout the state. Insect specimen records are needed to:

- 1) Improve the Taxonomic status of invading crazy ants.
- 2) Understand rate and direction of spread of the species.

Contribute Information:
Information required: Specimens of *Nylanderia* species linked to a physical location. Winged males especially important (for identification to species level).

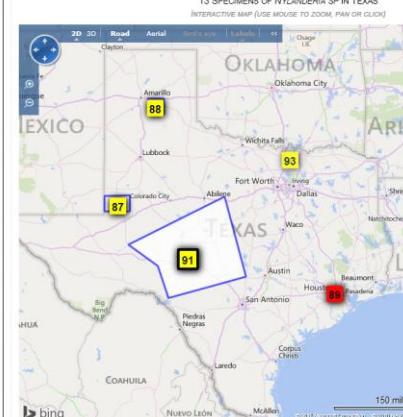
Instructions:

1. Use the link below to enter information about a specimen. The location at which the specimen was collected is especially important.
2. Enter mailing address and attach a copy of the mailing instructions and a form to include with your sample. Print this document. You may wish to have a copy of the form in your records.
3. Detach the mailing address from the printed form. Place the sample in a small envelope with the remainder of the form. Record additional information or contact details on the submitted form.
4. Specimens will be identified, mounted and stored at Texas A&M. Location data will contribute towards *Nylanderia* distribution and risk maps.

[Click here to add a new record](#)

Current Distribution Map:

13 SPECIMENS OF *NYLANDERIA* SP IN TEXAS
INTERACTIVE MAP (USE MOUSE TO ZOOM, PAN OR CLICK)



Map Legend:
■ Possible Record (awaiting validation)
■ Certified Record (validated)

The map shows the confirmed cases (red) and pending case (yellow).

Contributing

Users have to follow the instructions to contribute.

Clicking on this link opens the form to enter information.

Contribute Information:
Information required: Specimens of Nylanderia species linked to a physical location. Winged males especially important (for identification to species level).

Instructions:

1. Use the link below to enter information about a specimen. The location at which the specimen was collected is especially important.
2. After submitting specimen details, a link will appear that contains mailing instructions and a form to include with your sample. Print the document. You may wish to save a copy of the form for your records.
3. Detach the mailing address from the printed form. Place the sample in a small envelope with the remainder of the form. Record additional information or contact details on the submitted form.
4. Specimens will be identified, mounted and stored at Texas A&M. Location data will contribute towards Nylanderia distribution and risk maps.

Click here to add a new record

Current Distribution Map:

13 SPECIMENS OF NYLANDERIA SP IN TEXAS
INTERACTIVE MAP (USE MOUSE TO ZOOM, PAN OR CLICK)

Map Legend

Possible Record (awaiting validation) ?

Certified Record (validated) ?

bing

Contributing

- User has to fill the required information in the form.

SENTINEL

Define a location for this record:
County Search for a location Draw Polygon

Record ID: new record

Genus and Species: Nylanderia fulva

Collector Name: First Last

Entered by: rht1369@yahoo.com

Collected Between: 04/08/2015 select and 04/08/2015 select

Verified By: pending... pending...

Verified Date: pending select

Location of Specimen: Sent to Texas A&M for confirmation

Notes: Enter notes here...

Key Words (Click on a Key Word to add extra information)
Habitat Time of Day Stage Sex Color

2D 3D Road Aerial Bird's eye Labels

ALBERTA MANITOBA SASKATCHEWAN ONTARIO MICHIGAN OHIO PENNSYLVANIA WEST VIRGINIA KENTUCKY VIRGINIA NORTH CAROLINA SOUTH CAROLINA ALABAMA GEORGIA LOUISIANA MISSISSIPPI ARKANSAS TEXAS OKLAHOMA KANSAS NEBRASKA SOUTH DAKOTA NORTH DAKOTA IOWA MONTANA IDAHO WYOMING COLORADO UTAH NEW MEXICO ARIZONA CALIFORNIA NEVADA RIVER MEXICO MEXICO CITY MEXICO CITY

bing

Submit Cancel

SEARCHING...
SEARCHING...
SEARCHING...

WEBSITE STATISTIC TOOL

1 2 3 4 5 6
7 8 9 10 11 12 **13**

What does it do?

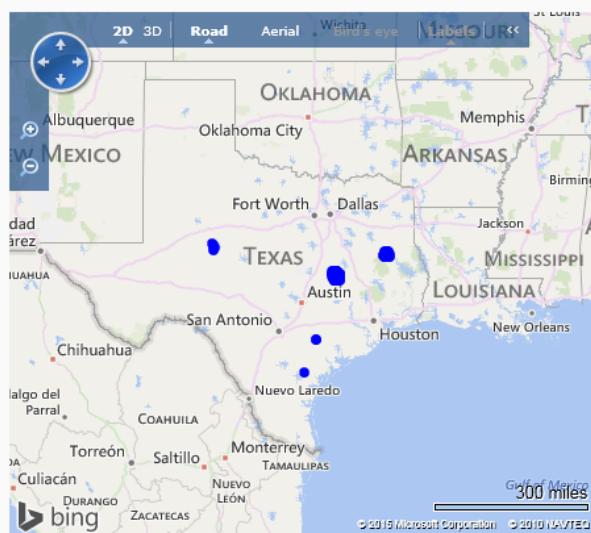
- This page provides insight into the accesses to this website.
- Visitors can choose a time span and/or a region on the map in order to see the number times that this website has been visited.
- Visits to a specific tool on the website are available.

Tool's Interface

This page provides insight into the accesses to this website. You can choose a time span and/or a region on the map in order to see the number times that this website has been visited.

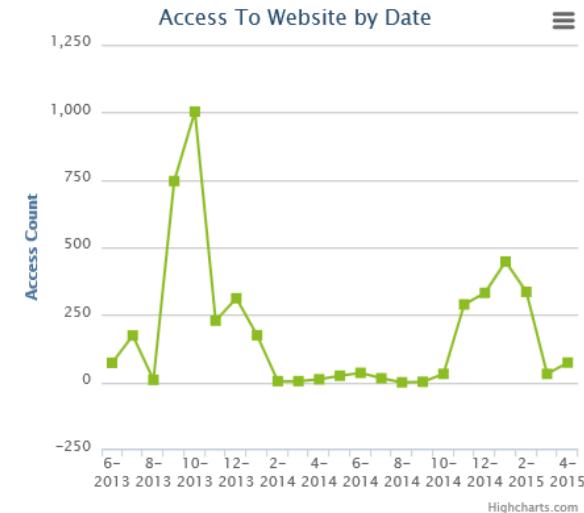
To choose a time span, first you need to check the "Bound Date" Checkbox. Then you select the year and the month for the beginning and the end of your time span.

Bound Date: From: 2010 To: 2015



This map shows the geo location users (anonymous) of the website. This provides an insight to which where the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the desired area, then click on the "Create Boundary" button. Then you can click and drag your mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.

Show Graph of Overall Trend: Show Graph of Year-by-Year Trend:



This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and clicking the submit button.

Tool's Interface

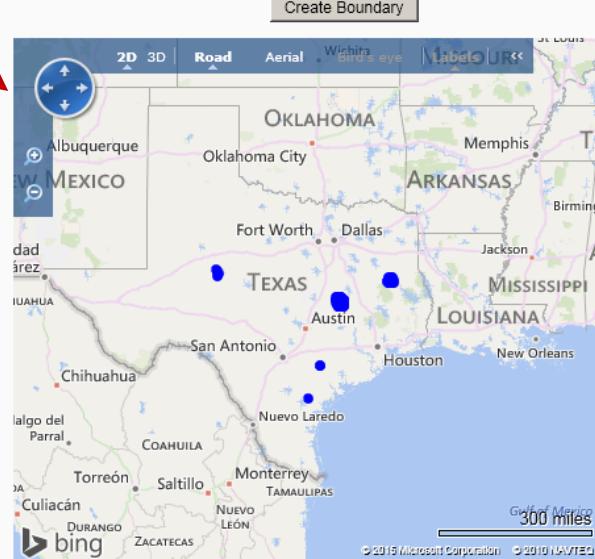
This page provides insight into the accesses to this website. You can choose a time span and/or a region on the map in order to see the trend of visits to the website or tool.

The map shows where the visitors are located.

Bound Date: From: 2010 To: 2015

All

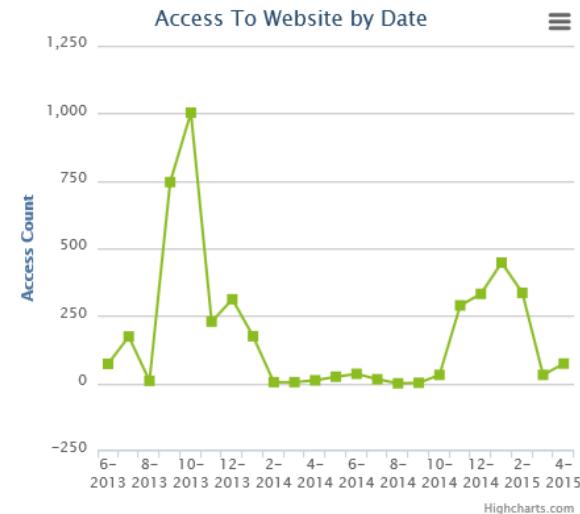
Submit



This map shows the geo location users (anonymous) of the website. This provides an insight to which where the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the desired area, then click on the "Create Boundary" button. Then you can click and drag your mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.

The diagram shows the trend of visits to the website or tool.

Show Graph of Overall Trend: Show Graph of Year-by-Year Trend:



This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and clicking the submit button.

Tool's Interface

This page provides insight into the accesses to this website. You can choose a time span and/or a region on the map it been visited.

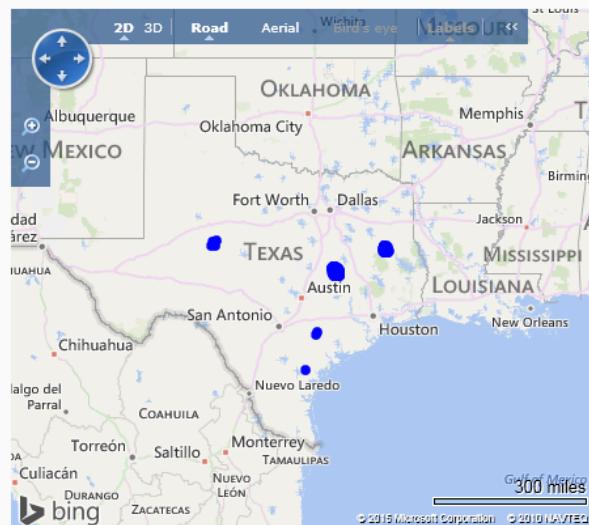
To choose a time span, first you need to check the "Bound Date" Checkbox. Then you select the year and the month

Bound Date: From: 2010 To: 2015

All

Submit

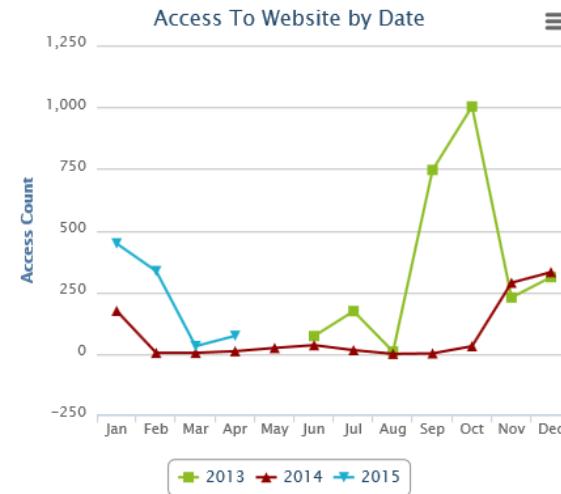
Create Boundary



This map shows the geo location users (anonymous) of the website. This provides an insight to which where are the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the the desired area, then click on the "Create Boundary" button. Then you can click and drag you mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.

Visits can be compared based on the year of the visit.

Show Graph of Overall Trend: Show Graph of Year-by-Year Trend:

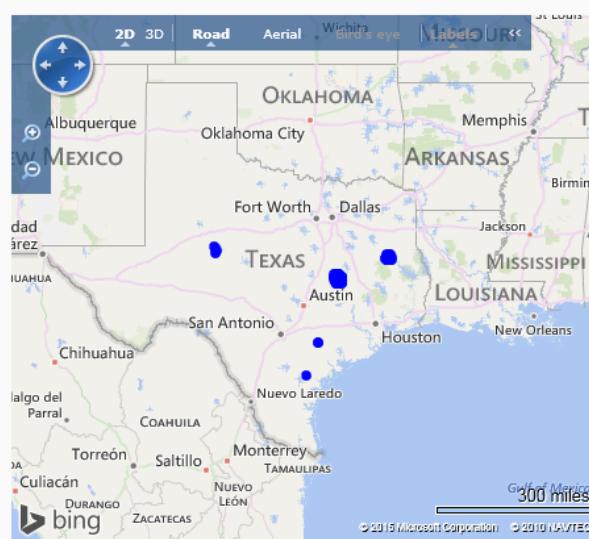


Highcharts.com

This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and the licking the submit button.

Tool's Interface

User's can view visits to the website base in certain time span. They can also uncheck "Bound Date" to see all visits.



This map shows the geo location users (anonymous) of the website. This provides an insight to which where the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the desired area, then click on the "Create Boundary" button. Then you can click and drag your mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.

Accesses to this website. You can choose a time span and/or a region on the map in order to see the number times that this website has been accessed. You need to check the "Bound Date" Checkbox. Then you select the year and the month for the beginning and the end of your time span.

Bound Date: From: 2010 To: 2015

All

Show Graph of Overall Trend: Show Graph of Year-by-Year Trend:



This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and clicking the submit button.

Tool's Interface

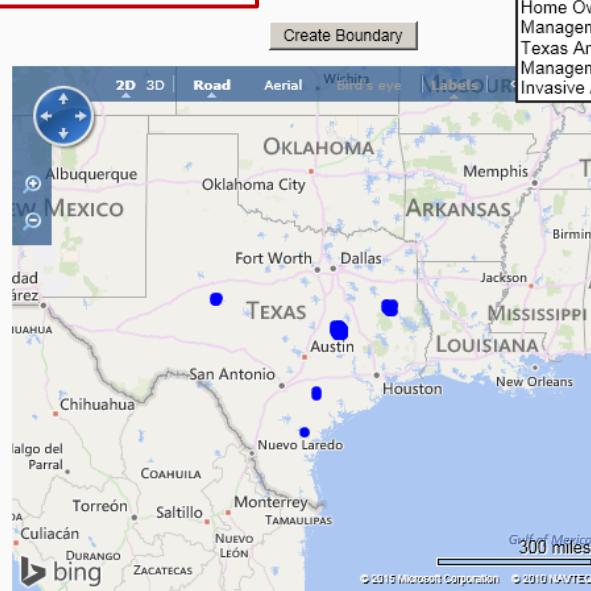
Visits can be separated based on the tool that has been used.

This page provides insight into the accesses to this website. You can choose a time span and/or a region on the map in order to see the number times that this website has

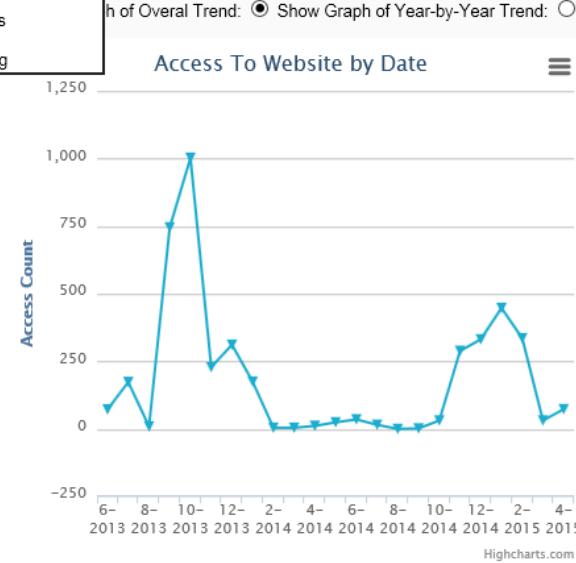
need to check the "Bound Date" Checkbox. Then you select the year and the month for the beginning and the end of your time span.

Bound Date: From: 2010 To: 2015

All
Home
Landscape Management Tool
Home Owner Management Tool
Management Stories
Texas Ant Distributions
Management Reports
Invasive Ant Monitoring



This map shows the geo location users (anonymous) of the website. This provides an insight to which where are the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the desired area, then click on the "Create Boundary" button. Then you can click and drag your mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.



This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and the clicking the submit button.

Tool's Interface

This page provides insight into the accesses to this website. You can choose a time span and/or a region on the map in order to see the number times that this website has been visited.

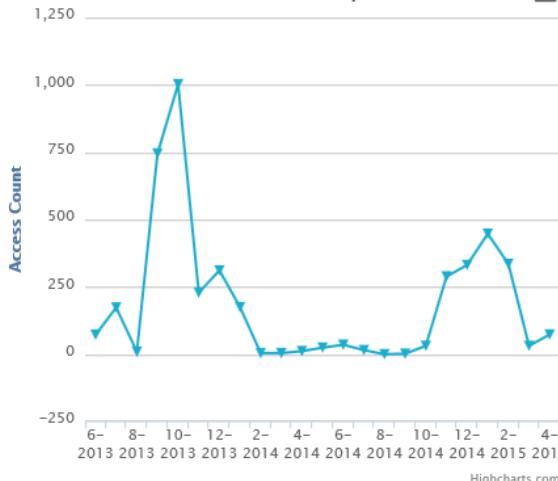
To choose a time span, first you need to check the "Bound Date" Checkbox. Then you select the year and the month for the beginning and the end of your time span.

Bound Date: From: 2010 To: 2015

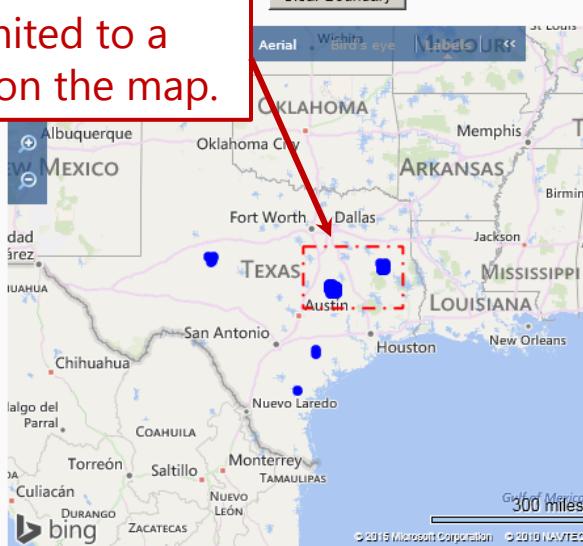
All

Show Graph of Overall Trend: Show Graph of Year-by-Year Trend:

Access To Website by Date



Visits can be limited to a specific region on the map.



This map shows the geo location users (anonymous) of the website. This provides an insight to which where are the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the the desired area, then click on the "Create Boundary" button. Then you can click and drag you mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.

This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and the licking the submit button.

Tool's Interface

This page provides insight into the accesses to this website. You can choose a time span and/or a region on the map in order to see the number times that this website has been visited.

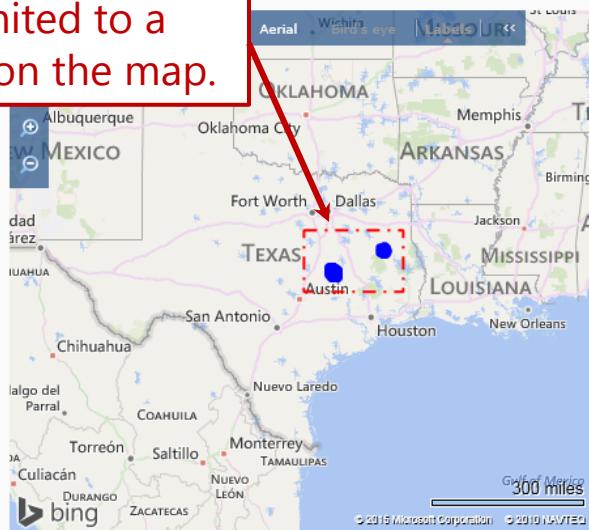
To choose a time span, first you need to check the "Bound Date" Checkbox. Then you select the year and the month for the beginning and the end of your time span.

Bound Date: From: 2010 To: 2015

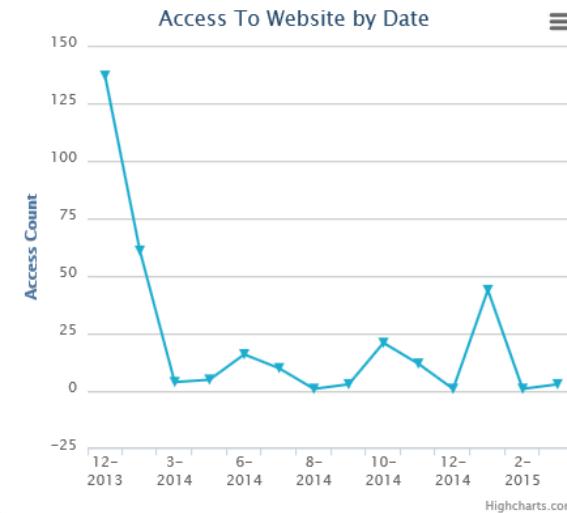
All



Show Graph of Overall Trend: Show Graph of Year-by-Year Trend:



Visits can be limited to a specific region on the map.



This map shows the geo location users (anonymous) of the website. This provides an insight to which where are the main users of this web application are located. To select a specific region for viewing the accesses, first zoom into the desired area, then click on the "Create Boundary" button. Then you can click and drag your mouse to draw a rectangle around the area in which you are interested and finally click submit to refresh the map and the chart on the right side. You can clear the boundary to see the accesses from anywhere by clicking the "Clear Boundary" button.

This chart shows the trend of the accesses to the website. You can choose to view the overall trend or to compare the year-by-year trend by choosing one of the options above the chart and clicking the submit button.