

Web-based tools for invasive species management



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Stewardship Network Conference



invasive
PLANT CONTROL

Managing Invasive Species

- On-the-ground
- Workshops and Trainings
- Developing tools to assist managers in their jobs.



Cut and Treat with Brush Cutters



Arnold AFB, TN

Everglades National Park

"The way to show yourself wise is not so much by speech but by silence"



2-weeks after treatment



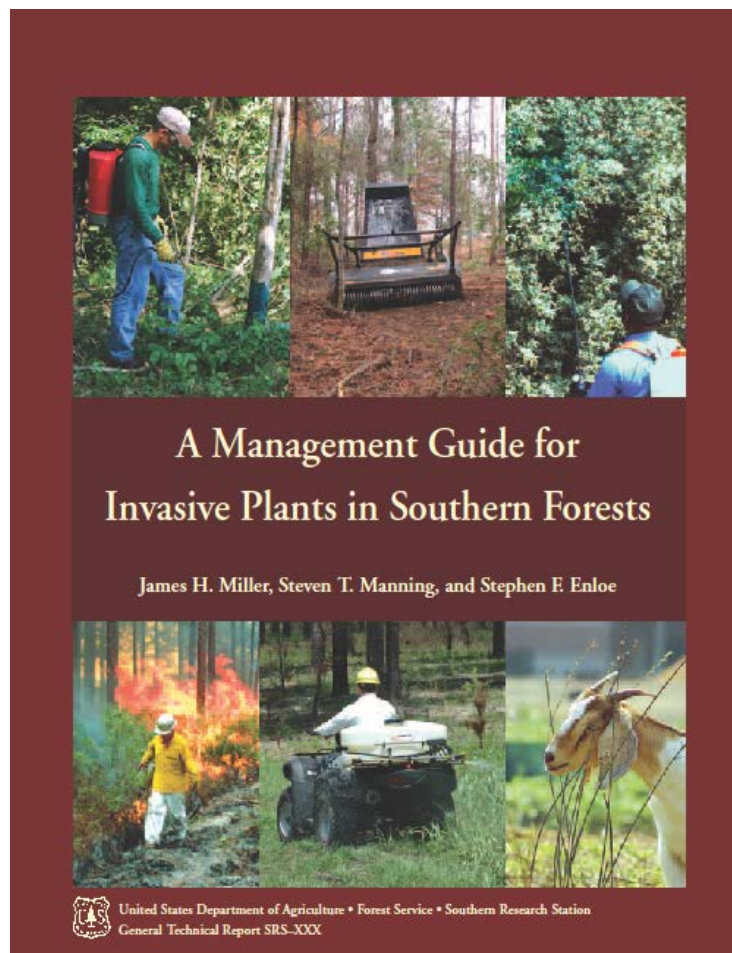


Tanzania, Africa





Invasive Plant Management Tools



Contracting Invasive Plant Management

Developing Bid Specifications for Invasive Plant Control Programs



Instructions for contracting a successful
invasive plant management program—from
the ground up

Other Resources

- Exotic Pest/Invasive Plant Councils
- Natural Areas Association
- invasiveplantcontrol.com
- IPCConnect.com

Questions?





THE UNIVERSITY OF GEORGIA
**CENTER FOR INVASIVE SPECIES
AND
ECOSYSTEM HEALTH**
WARNELL SCHOOL OF FORESTRY AND NATURAL RESOURCES COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

EDD **MapS**
Early Detection & Distribution Mapping System

EDD **MapS** *PRO*
Early Detection & Distribution Mapping System with Management Tracking





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**A Public/Private Partnership to Develop Advanced
Web-based Tools to Assist in Management of Invasive Plants**

ip web+ solutions

ipclogic

ipccconnect

ipcc logic

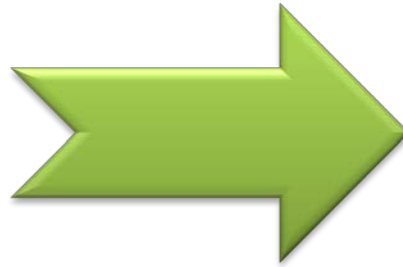
The image features the text "ipcc logic" in a sans-serif font. The letters "ipcc" are a light green color, while "logic" is a darker green. The letter "g" in "logic" is stylized to resemble a plant stem with a root system extending downwards. The letter "i" is also stylized, with its dot positioned above the stem of the "g". Two leaves, one dark green and one light green, are attached to the top of the stem. The entire graphic is set against a plain white background.



A decision support tool to help determine the best and most economical management strategies for an invasive plant infestation.

Input

- Species
- Size of Infestation
- Habitat
- Etc



Output

- Methods
- Chemicals
- Tools and Equipment
- Labor
recommendations
- Restoration
recommendations



Enter your username:

Enter your password:

Submit



Fort A.P. Hill

Tell us about the infestation you are trying to control

What species are you trying to control? tree-of-heaven (Ailanthus altissima)

How large is the infestation of this species? acres

How dense is the infestation of this species? No selection

What growth stage are you trying to control? No selection

Is the infested area wet or near water? No selection

Do you want to treat while dormant? No selection

Are there species in the infested area that should not be damaged? No selection

What season do you want to perform treatments in? No selection

Get my control options



Potential solutions for your invasive plant problem

You have requested a list of control options for an 20 acres , high density infestation of Japanese stiltgrass (*Microstegium vimineum*) trees. This infestation is not in a wet area and is not located close to water. These control options are selective to minimize injury to

[Control a different species](#)

Modify current Recommendation

Method	Equipment	Herbicide	Rate	Man Hours	Notes
	Foliar Backpack Sprayer	Imazapic	7 oz/acre	320	Notes on Treatment: Ensure treatment is in late growing season before flowering stage. Notes on Herbicide: 6 oz/A emerged <i>Microstegium</i> . Does have some soil residual and may kill/damage non-target plants through root uptake.
	Foliar ATV/UTV	Imazapic	7 oz/acre	138	Notes on Treatment: Ensure treatment is in late growing season before flowering stage. Notes on Equipment: Spot treatments in open range landscapes. Notes on Herbicide: 6 oz/A emerged <i>Microstegium</i> . Does have some soil residual and may kill/damage non-target plants through root uptake.
	Foliar ATV/UTV with Spray Boom	Imazapic	7 oz/acre	40	Notes on Treatment: Ensure treatment is in late growing season before flowering stage. Notes on Equipment: Broad cast treatments in open range landscapes. Notes on Herbicide: 6 oz/A emerged <i>Microstegium</i> . Does have some soil residual and may kill/damage non-target plants through root uptake.
	Foliar Backpack Sprayer	Fluazifop	0.5 percent	320	Notes on Treatment: Ensure treatment is in late growing season before flowering stage. Notes on Herbicide: Post emergent control of annual and perennial grass weeds. Usually more costly than using Plateau or Journey.
	Foliar ATV/UTV	Fluazifop	0.5 percent	138	Notes on Treatment: Ensure treatment is in late growing season before flowering stage. Notes on Equipment: Spot treatments in open range landscapes. Notes on Herbicide: Post emergent control of annual and perennial grass weeds. Usually more costly than using Plateau or Journey.
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	Trimmer	None		Man Hour Rates Not Available	
	Hand pull	None		Man Hour Rates Not Available	Notes on Treatment: Due to <i>Microstegium</i> 's shallow roots system, hand pulling is an option in smaller populations. Notes on Method: Consider in small isolated infestions.

Questions?



The logo for 'ipccconnect' features the text 'ipccconnect' in a lowercase, sans-serif font. The 'ipcc' portion is a light green, while 'connect' is a darker green. A stylized plant with two leaves and a root system is integrated into the text, with the leaves above the 'cc' and the roots below the 'cc'.

ipccconnect



- Tools for IPC Crews and Clients to better document work flow in real time while in the field
- iPhone app – for photos and photo points
- iPad app – for documenting daily work
 - *Eliminate paper and lag time
- Web Interface – for supervisors, crews and clients
- Personalized



ipccconnect



Login



Project Sites

Demo County Park



Demo Park



Demo State Park



Fulwood Park



Sites



Plants



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Fulwood Park



Fulwood Park

Tift County GA

Address

100 West 12th Street
Tifton GA 31794

Contact Name - Chuck Bargeron

Contact Phone - 229-402-0412

Description - Fulwood Park is a 35 acre park featuring picnic areas, playgrounds, and rest area. A stage is located in the park for concerts.

[Sites](#)[Plants](#)[Upload](#)[Settings](#)[Help](#)

Target Plants

Ailanthus altissima

Tree-of-Heaven



Akebia quinata

Five-Leaf Akebia, Chocolate Vine



Albizia julibrissin

Silktree, Mimosa



Alliaria petiolata

Garlic Mustard



Alternanthera philoxeroides

Alligatorweed



Ampelopsis brevipedunculata

Amur Peppervine, Porcelain Berry



Ardisia crenata

Hen's Eyes, Coral Ardisia



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Tree-of-Heaven



Tree-of-Heaven

Ailanthus altissima

Tree-of-heaven or ailanthus [*Ailanthus altissima* (Mill.) Swingle] is a shallow-rooted deciduous tree to 80 feet (25 m) tall with long pinnately compound leaves having two circular glands under small lobes on leaflet bases. Large terminal clusters of greenish flowers in early summer yield persistent clusters of wing-shaped fruit with twisted tips on female trees. Light-green seeds in midsummer are capable of germination. Viable seed are produced by 2- to 3-

Back

Tree-of-Heaven



Tree-of-Heaven

Ailanthus altissima

Management strategies

Do not plant. Remove prior plantings, and control sprouts and seedlings. Bag and dispose of fruit in a dumpster or burn.

Target female seed-producing plants.

Minimize disturbance within miles of where this plant occurs, and anticipate

Tree-of-Heaven

Ailanthus altissima

10/27/2011 12:20



Latitude 37.785834

Longitude -122.406417

Accuracy 5 meters



Infested Area

Acres Sq Feet

Notes

Oriental Bittersweet

Celastrus orbiculatus

10/27/2011 12:20



Latitude 37.785834

Longitude -122.406417

Accuracy 5 meters



Infested Area

Acres Sq Feet

Notes

Target Plants

Ailanthus altissima
Tree-of-Heaven

Akebia quinata
Five-Leaf Akebia, Chocolate Vine

Ailanthus fulbrissin
Silktree, Mimosa

Allypeltis
Garlic Mustard

Ageranthera philoxeroides
Angatorweed

Ampelopsis brevipedunculata
Amur Peppervine, Porcelain Berry

Ardisia crenata
Hen's Eyes, Coral Ardisia

Thanks!
Your observation is in upload queue.

OK

Tree-of-Heaven
Ailanthus altissima
10/27/2011 12:20

Bush Honeysuckles
Lonicera spp.
10/27/2011 12:20

Tree-of-Heaven
Ailanthus altissima
10/27/2011 12:21

iPad

9:41 AM



Project Sites

Demo County Park



Demo Park



Demo State Park



Fulwood Park



Sites



Plants



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Daily Site Report

Save

Fulwood Park

10/27/2011 2:36

Methods

Cut & Treat - Hand Sprayer

Backpack Sprayer

ATV Mounted Sprayer

Kubota RTV Mounted Sprayer

Skid Sprayer

Hack & Squirt - Squirt Bootle

Hand Pull

Chipping

Time

Temp

Sky Conditions

AM

PM

Wind Conditions

AM

PM

Crew

Crew Member	Hours
Crew Member	Hours
Crew Member	Hours
Crew Member	Hours
Crew Member	Hours
Crew Member	Hours
Crew Member	Hours

Site Conditions

Light

Flat

Acreage, Area or Number of Plants Treated

Species

Chemicals Applied

Herbicide	Amount	Percent	Surfactant	Amount	Percent	Dye	Amount	Percent
Herbicide	Amount	Percent	Surfactant	Amount	Percent	Dye	Amount	Percent
Herbicide	Amount	Percent	Surfactant	Amount	Percent	Dye	Amount	Percent

Notes

Back

Daily Site Report

Save

Fulwood Park

10/27/2011 2:36

Methods

Cut & Treat - Hand Sprayer

Backpack Sprayer

ATV Mounted Sprayer

Kubota RTV Mounted Sprayer

Skid Sprayer

Hack & Squirt - Squirt Bottle

Hand Pull

Chipping

Other Method

Other Method

Time

Temp

Sky Conditions

AM

PM

Wind Conditions

AM

PM

Crew

Crew Member	Hours
Crew Member	Hours
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Crew Member	Hours
Crew Member	Hours
Crew Member	Hours
Crew Member	Hours

Acreage, Area or Number of Plants Treated

Species

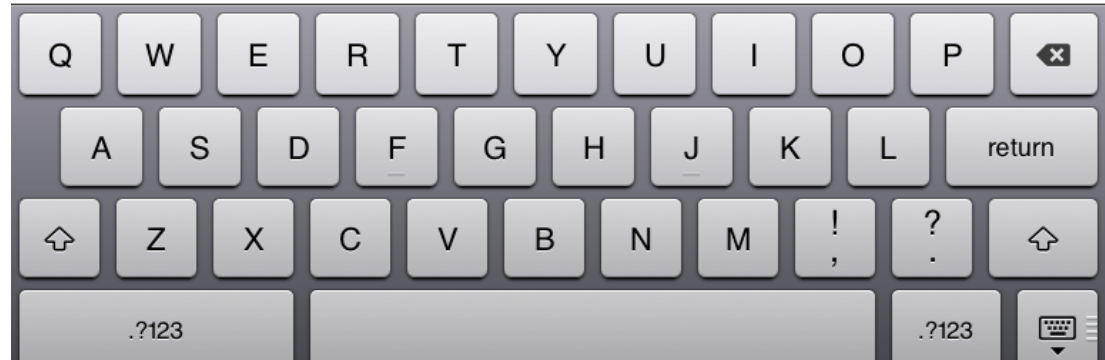
Site Conditions

Light

Flat

Chemicals Applied

Herbicide	Amount	Percent	Surfactant	Amount	Percent	Dye	Amount	Percent
Herbicide	Amount	Percent	Surfactant	Amount	Percent	Dye	Amount	Percent
Herbicide	Amount	Percent	Surfactant	Amount	Percent	Dye	Amount	Percent



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Ailanthus altissima
Tree-of-Heaven



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Five-Leaf Akebia, Chocolate Vine



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Alligatorweed



Ampelopsis brevipedunculata
Amur Peppervine, Porcelain Berry



Ardisia crenata
Hen's Eyes, Coral Ardisia



Arundo donax
Giant Reed



Berberis thunbergii
Japanese Barberry



Broussonetia papyrifera
Paper Mulberry



Carduus nutans
Nodding Plumeless Thistle, Musk Thistle



Celastrus orbiculatus
Oriental Bittersweet



Centaurea stoebe L. ssp. *micranthos*
Spotted Knapweed



Cinnamomum camphora
Camphortree



Dioscorea spp.
Climbing Yams



Elaeagnus angustifolia
Russian Olive



Elaeagnus pungens
Silverthorn, Thorny Olive



Elaeagnus umbellata



Sites



Plants



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Tree-of-Heaven

Ailanthus altissima

Tree-of-heaven or ailanthus [*Ailanthus altissima* (Mill.) Swingle] is a shallow-rooted deciduous tree to 80 feet (25 m) tall with long pinnately compound leaves having two circular glands under small lobes on leaflet bases. Large terminal clusters of greenish flowers in early summer yield persistent clusters of wing-shaped fruit with twisted tips on female trees. Light-green seeds in midsummer are capable of germination. Viable seed are produced by 2- to 3-year-old plants, and a mature tree can produce 300,000 seeds per year. Seed can be blown up to 330 feet (100 m) from parent. Root sprouts will appear after the main stem is deadened, and root segments left in soil after pulling treatments will sprout. Sprouts can grow 10 to 14 feet (3 to 4 m) tall the first year. This vigorous growth can continue for 4 or more years.

Management strategies

Do not plant. Remove prior plantings, and control sprouts and seedlings. Bag and dispose of fruit in a dumpster or burn.

Target female seed-producing plants.

Minimize disturbance within miles of where this plant occurs, and anticipate wider occupation when plants are present before disturbance.

Treat when new plants are young to prevent seed formation.

Cutting and pulling treatments result in abundant surface root sprouts and should not be used without herbicide treatments.

Burning treatments are suspected of having minimal topkill effect due to scant litter.

Recommended control procedures

Large trees. Make stem injections and then apply Garlon 3A when safety to surrounding vegetation is desired, or Pathway* or Arsenal AC* in dilutions and cut-spacings specified on the herbicide label (midsummer best, late winter somewhat less effective). For felled trees, apply the herbicides to stem and stump tops immediately after cutting. Also, ORTHO Brush-B-Gon, Enforcer Brush Killer, and Vine-X are effective undiluted for treating cut-stumps and available in retail garden stores (safe to surrounding plants).

Saplings. Apply as basal sprays in mixed in a labeled basal oil product, vegetable oil or mineral oil with a penetrant, or fuel oil or diesel fuel (where permitted) using Garlon 4 as a 20 percent solution



IPC Connect provides access to information and resources from past meetings and events. You can also log in and share files for projects.

Log In

User Name:

Password:

Login

Meetings

Access information and resources from past meetings.

- ✓ [Forest Glen Invasive Plant Management Conference](#)
- ✓ [Pacific Northwest - IPC Workshop \(Everett, WA\)](#)
- ✓ [Pacific Northwest - IPC Workshop \(Eugene, OR\)](#)
- ✓ [Strategic Management of Invasive Species in the Southern United States DOD Legacy Short Course Presentations](#)
- ✓ [Field Techniques for Invasive Plant Management - Utah October 2010](#)
- ✓ [Field Techniques for Invasive Plant Management - NCTC May 2010](#)

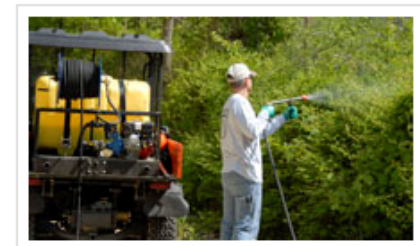


Projects

Log in here to share files and information on projects.

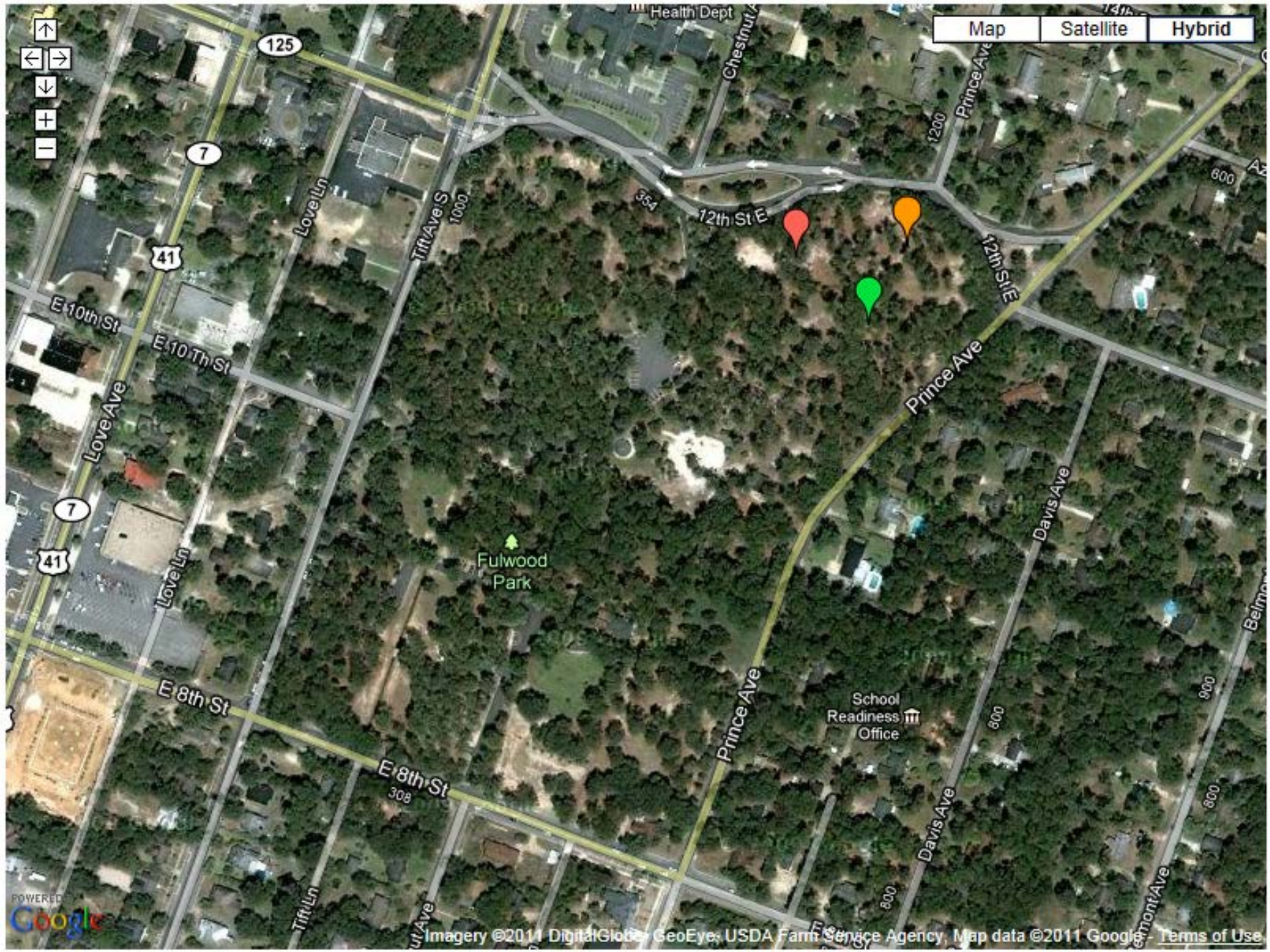
- ✓ TNC Adirondacks
- ✓ Fort AP Hill.

|





Map Satellite Hybrid





To draw on the map, click on one of the buttons and then click on the map. Double-click to stop drawing a line or shape. Click on an element to change color. To edit a line or shape, mouse over it and drag the points. Click on a point to delete it.

- Placemark 1 (31.46, -83.5)
- Placemark 2 (31.46, -83.5)
- Placemark 3 (31.46, -83.5)
- Shape 1 0.02km²





Client Reports

- Chemical Usage
- Man hours
- Equipment Used
- Acres Treated
- Weather Patterns



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