

A photograph of a pine forest. The foreground is dominated by a large, weathered log lying horizontally across the frame. The ground is covered in tall, dry grasses and some green plants. In the background, a dense stand of tall, thin pine trees reaches towards the sky. The lighting suggests a bright, sunny day.

North Carolina Sandhills Weed Management Area

Tracy Rush – Program Coordinator

Weed Management Area

- Partnership of federal, state and local government agencies; conservation organizations; individuals and other interested groups that cooperatively manage invasive plants in a defined area.

Partners

- U.S. Department of Defense
- U.S. Fish and Wildlife Service
- U.S.D.A. Natural Resources Conservation Service
- N.C. Division of Parks and Recreation
- N.C. Wildlife Resources Commission
- The Nature Conservancy
- Sandhills Area Land Trust
- Sandhills Ecological Institute
- Private commercial foresters
- Private landowners/Interested parties

Advantages of WMA

- Management can occur across jurisdictional boundaries.
- Costs and management burdens are reduced for each individual landowner.
- Share data and resources.
- More access to various funding sources.

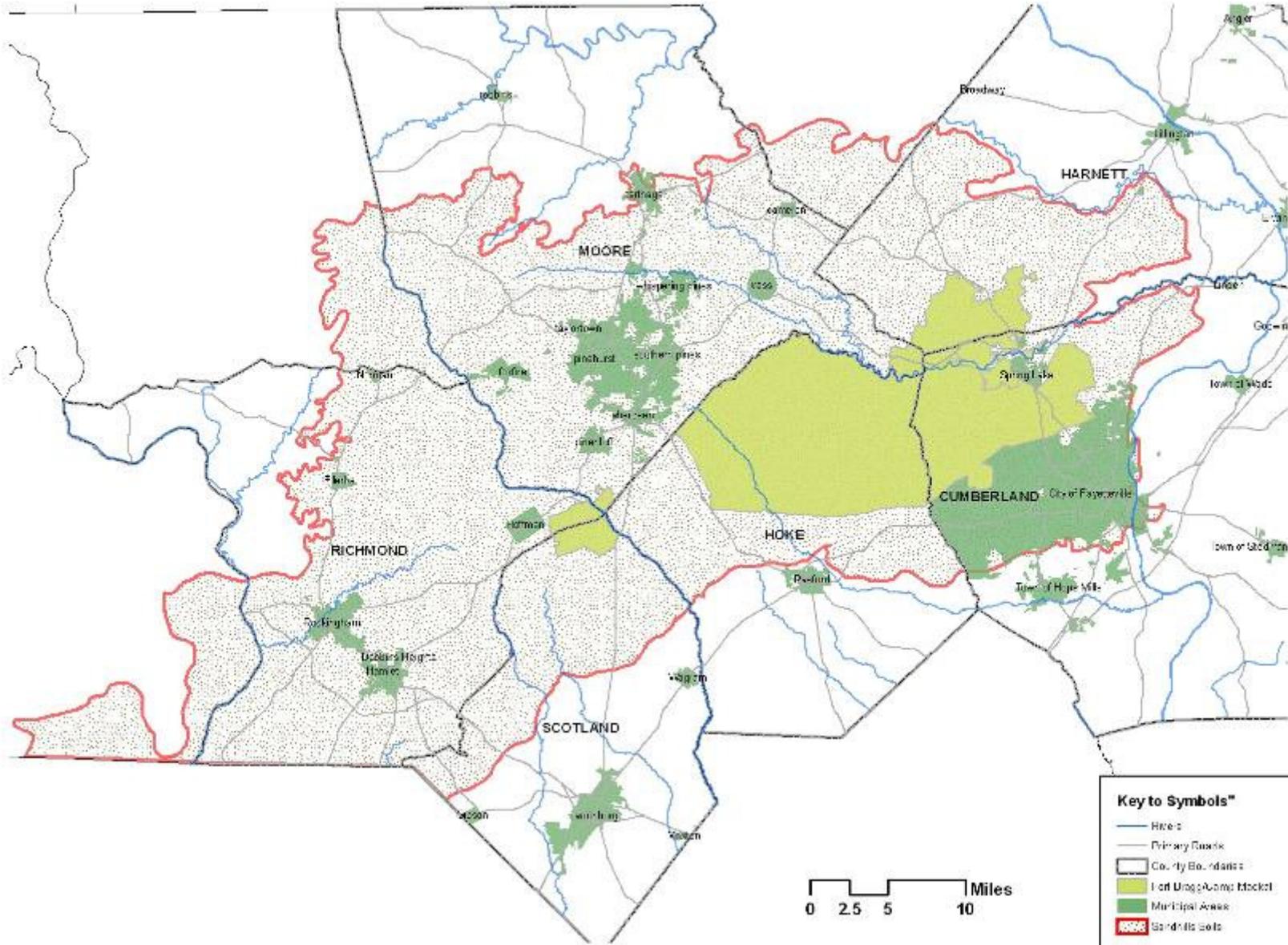
Establishment of the Sandhills Weed Management Area

- An invasive plant survey of Fort Bragg and Camp Mackall indicated the occurrence of at least 51 invasive plants.
- The military reservations initiated a large-scale invasive plant management program to prevent these 51 species from damaging valuable natural resources and training lands.
- Supporting a WMA on surrounding lands would protect the significant investments these installations have made in invasive plant management.

Establishment of the Sandhills Weed Management Area

- Based on this information and various federal regulations requiring federal agencies to control invasive species, the U.S. Army Corps of Engineers, Engineering Research and Development Center (ERDC-CERL) secured funding from the Department of Defense Legacy Program to establish a WMA in the Sandhills in 2006.

North Carolina Sandhills

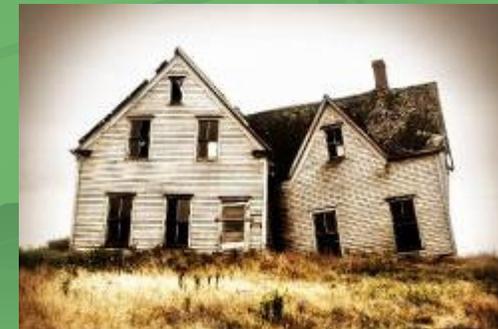


Survey 2009-2010

- Through the partners we were able to gain immediate access to a large number of properties.
- Surveyed 50+ properties for a total of 20,945 acres:
 - State Parks
 - The Nature Conservancy Preserves
 - Sandhills Area Land Trust parcels
 - Sandhills Game Lands parcels
 - Private Conservation Land

Notes on Surveys:

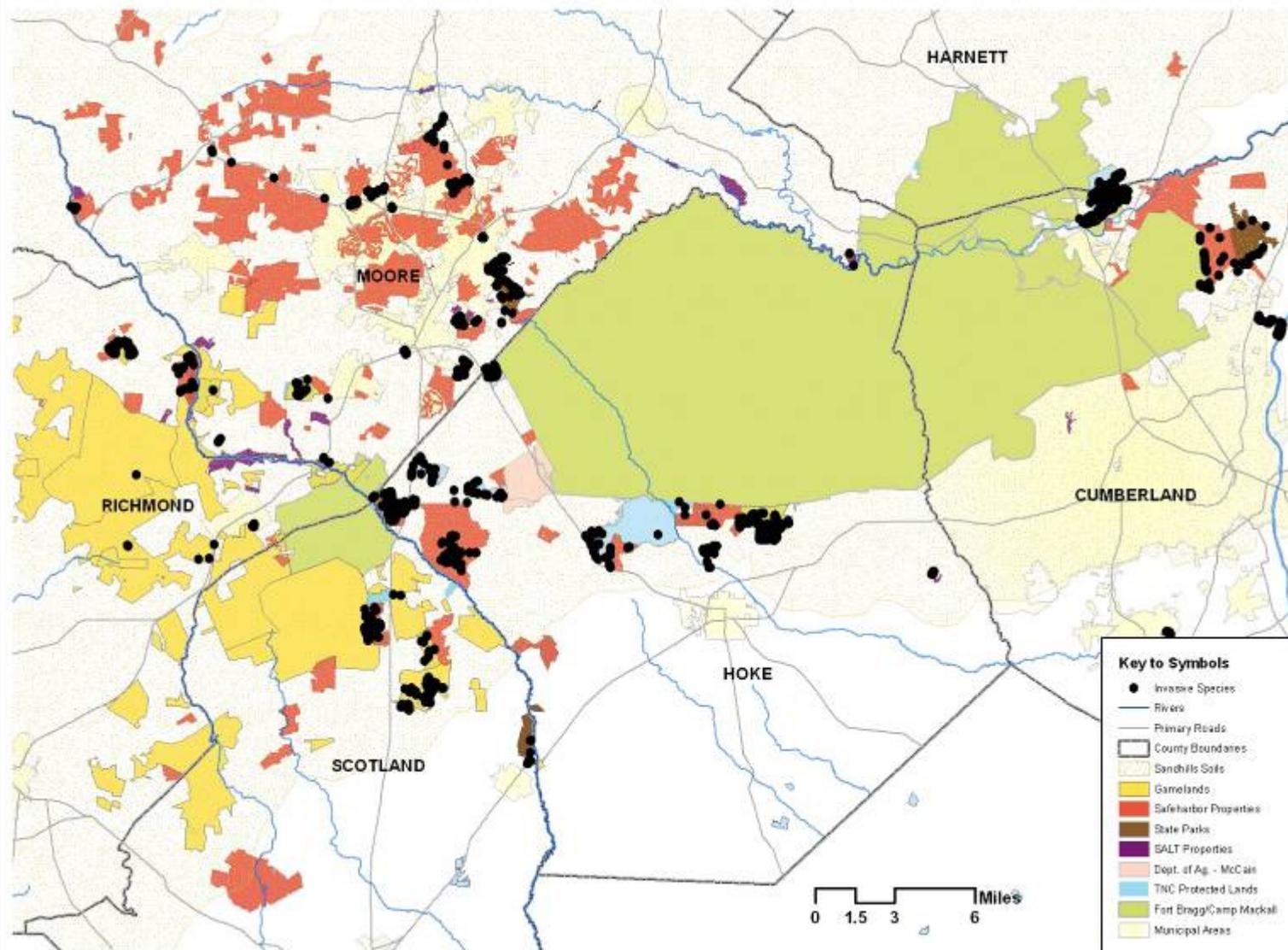
- Surveys focused on “conservation lands”.
- Properties were not 100% surveyed. Surveys focused on invasion corridors such as:
 - Roads
 - Railroads
 - Utility Right-of-ways
 - Old Homesites
 - Old Fields
 - Disturbed Areas
 - Property Boundaries



Mapping

- Mapped almost 1,800 occurrences of 35 different invasive plants on these properties.
 - Occurrences varying in size from a single plant to acre-size infestations.
- Used handheld Garmin GPS units.
- A data sheet was filled out for each occurrence.
 - Simple datasheet with check boxes.

NC Sandhills Conservation Area - Invasive Plant Locations



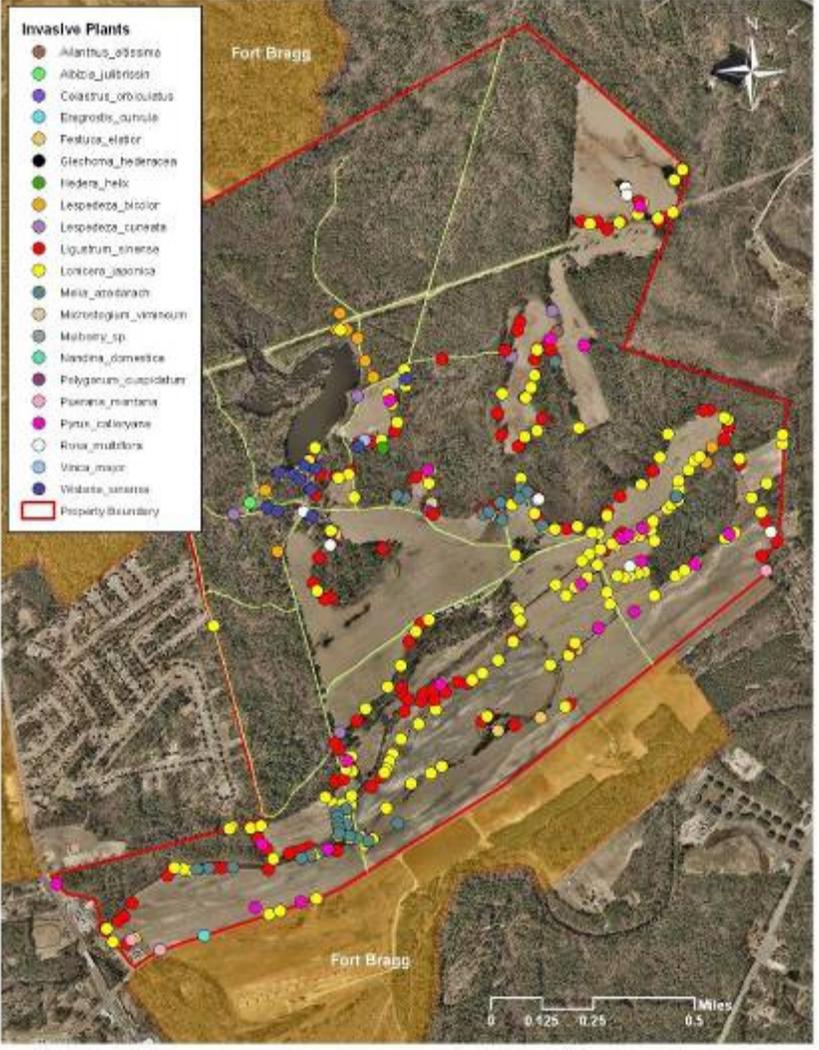
2009-2010 Breakdown

- 51% of the occurrences were Chinese Privet and Japanese Honeysuckle.
- 20% of the occurrences were “wildlife-related” (planted for food or cover):
 - Chinese Lespedeza = 7.2 % (full extent not mapped)
 - Shrubby Lespedeza = 4.5%
 - Multiflora Rose = 4.7%
 - Weeping Lovegrass = 4.3%
- Other most common species:
 - Chinaberry = 7.2%
 - Wisteria = 4.2%
 - Mimosa = 3.7%

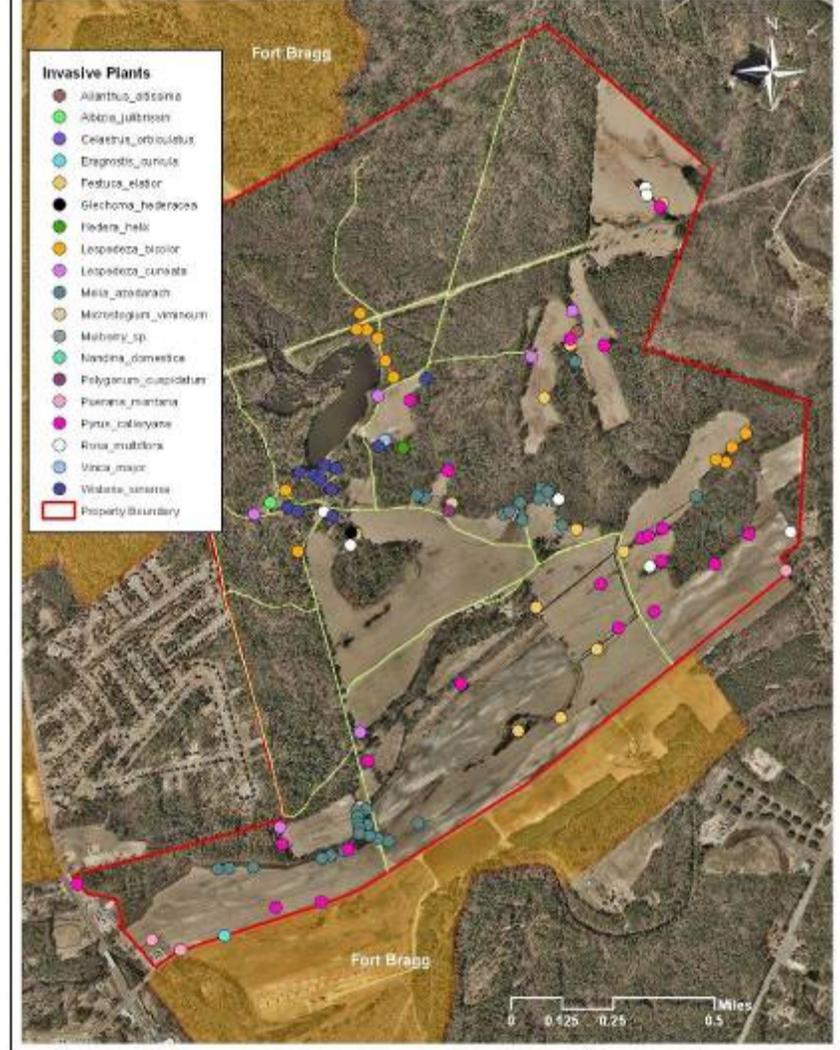
| Scientific Name | Common Name | Number of Occurrences | Percentage of Total Mapped |
|------------------------------|----------------------|-----------------------|----------------------------|
| <i>Ailanthus altissima</i> | tree of heaven | 34 | 1.89 |
| <i>Albizia julibrissin</i> | mimosa, silk tree | 67 | 3.73 |
| <i>Artemisia vulgaris</i> | mugwort | 2 | 0.11 |
| <i>Arundo donax</i> | giant reed | 1 | 0.05 |
| <i>Celastrus orbiculatus</i> | Oriental bittersweet | 1 | 0.05 |
| <i>Elaeagnus pungens</i> | thorny olive | 6 | 0.33 |
| <i>Elaeagnus umbellata</i> | autumn olive | 1 | 0.05 |
| <i>Eragrostis curvula</i> | weeping lovegrass | 78 | 4.34 |
| <i>Euonymus fortunei</i> | wintercreeper | 2 | 0.11 |
| <i>Festuca elatior</i> | tall fescue | 14 | 0.78 |
| <i>Glechoma hederacea</i> | gill-over-the-ground | 3 | 0.17 |
| <i>Hedera helix</i> | English ivy | 9 | 0.50 |
| <i>Ipomoea sp.</i> | morning glory | 3 | 0.17 |
| <i>Lespedeza bicolor</i> | shrubby bushclover | 80 | 4.45 |
| <i>Lespedeza cuneata</i> | Chinese lespedeza | 129 | 7.18 |
| <i>Ligustrum sinense</i> | Chinese privet | 462 | 25.70 |
| <i>Ligustrum sp.</i> | ornamental privet | 1 | 0.05 |
| <i>Lonicera japonica</i> | Japanese honeysuckle | 448 | 24.96 |
| <i>Lonicera sp.</i> | bush honeysuckle | 4 | 0.22 |

| Scientific Name | Common Name | Number of Occurrences | Percentage of Total Mapped |
|------------------------------|----------------------|-----------------------|----------------------------|
| <i>Melia azedarach</i> | chinaberry | 129 | 7.18 |
| <i>Microstegium vimineum</i> | Japanese stilt grass | 33 | 1.84 |
| <i>Miscanthus sinensis</i> | zebra grass | 2 | 0.11 |
| <i>Morus alba</i> | white mulberry | 3 | 0.17 |
| <i>Murdannia keisak</i> | marsh dewflower | 23 | 1.28 |
| <i>Nandina domestica</i> | sacred bamboo | 9 | 0.50 |
| <i>Paulownia tomentosa</i> | princesstree | 11 | 0.61 |
| <i>Phyllostachys aurea</i> | bamboo | 1 | 0.05 |
| <i>Polygonum cuspidatum</i> | Japanese knotweed | 8 | 0.44 |
| <i>Pueraria montana</i> | kudzu vine | 17 | 0.95 |
| <i>Pyrus calleryana</i> | Bradford pear | 32 | 1.78 |
| <i>Rosa multiflora</i> | multiflora rose | 84 | 4.67 |
| <i>Senna obtusifolia</i> | sicklepod | 8 | 0.44 |
| <i>Sorghum halepense</i> | johnsongrass | 13 | 0.72 |
| <i>Vinca spp.</i> | periwinkle | 2 | 0.11 |
| <i>Wisteria spp</i> | wisteria | 75 | 4.17 |

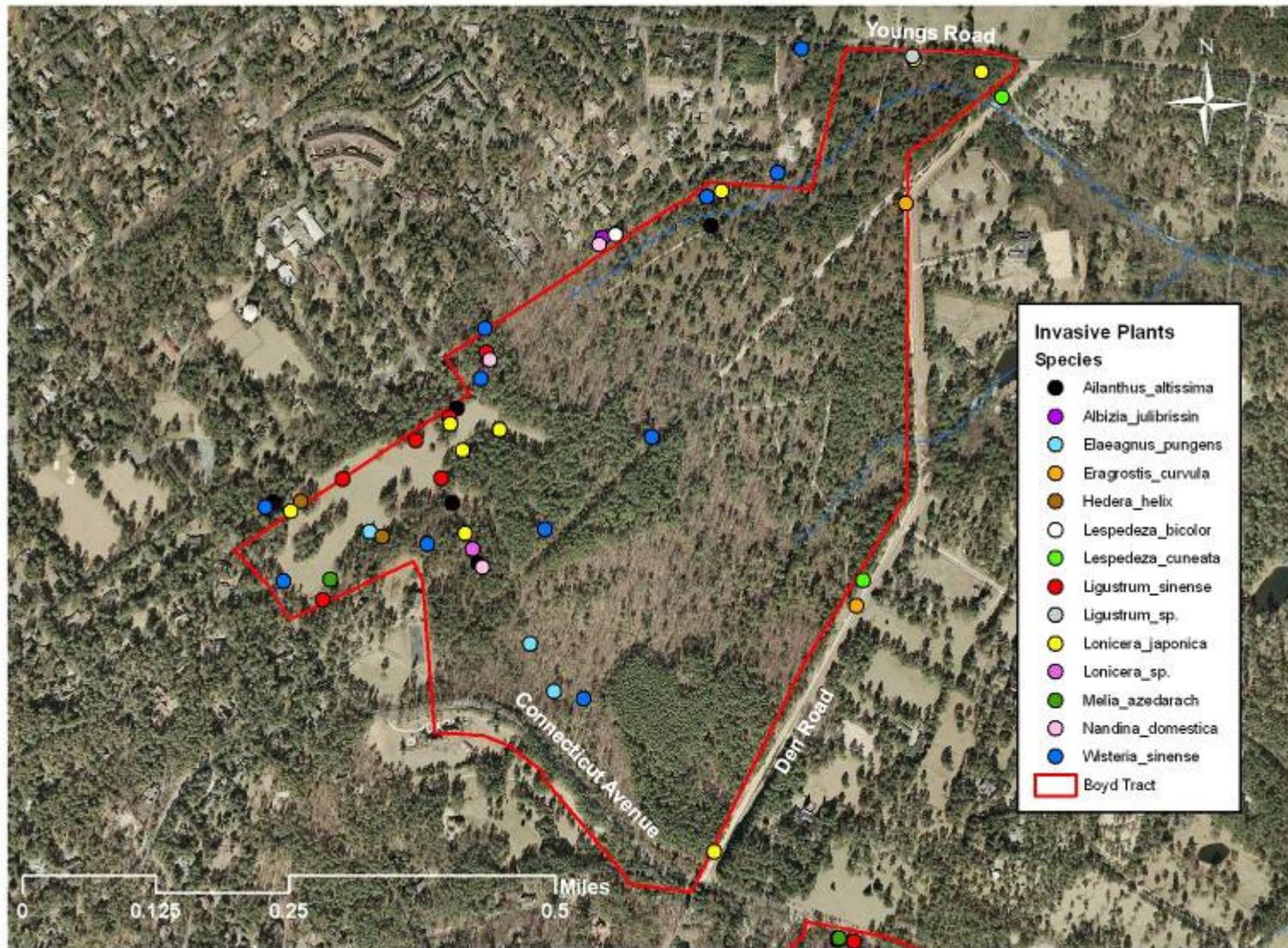
Long Valley Farm Invasive Plants



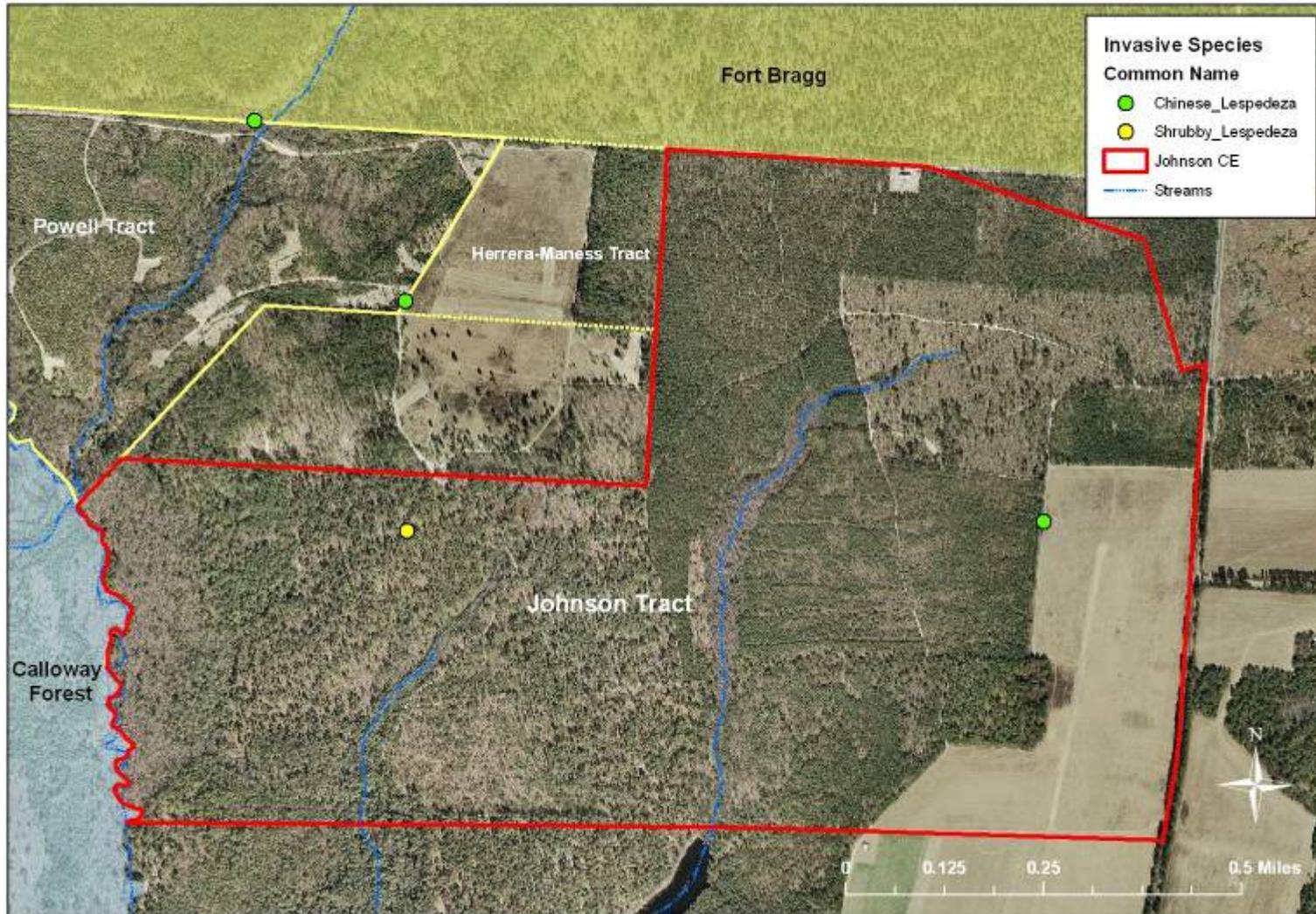
Long Valley Farm Invasive Plants



Weymouth Woods Nature Preserve - Boyd Tract Invasive Plants



Johnson Tract Invasives



Invasives Treated

- In the past 2 years we have treated 456 occurrences (25% of all occurrences mapped) and some occurrences have been treated a number of times (169 occurrences have been treated at least twice).
- Chinese privet and Japanese honeysuckle were treated if the occurrences were isolated or if the occurrences were immediately adjacent to other species.

Treatment Methods

- Herbaceous species:

- Foliar spray with 2%+ glyphosate solution.

- Vines:

- For large vines (>0.5 inch dbh) we used the “cut and spray” method on the first treatment. We cut the vine close to the ground and applied a concentrated glyphosate solution to the cut surface.
- After 1 month or so, we treated any remaining foliage with a 4%+ glyphosate foliar spray.

Treatment Methods

■ Shrubs:

- For most shrubs we used the “cut and spray” method. But in a few cases the shrubs (multiflora rose) were too dense to get to the stems so then we used a 4%+ glyphosate foliar solution.

■ Trees:

- Saplings and small trees (<4 inch dbh) were treated using the “cut and spray” or “basal bark” methods.
- Large trees were treated with the “hack and squirt” method whereby a chainsaw (most efficient) was used to “girdle” the trunk near the ground. Then we squirted a concentrated glyphosate solution into the cuts.

Parsons Tract - Before NC Wildlife Resources Commission



Parsons Tract - After NC Wildlife Resources Commission



After 3 Months.....sprouts!!



Boyd Tract - Before Weymouth Woods State Park



Boyd Tract - After Weymouth Woods State Park



Game Lands - Before NC Wildlife Resources Commission



Game Lands - After NC Wildlife Resources Commission



Data Management

Microsoft Excel - survey_master_back_up 10-27-09.xls

File Edit View Insert Format Tools Data Window Help

Type a question for help

100% Arial

Reply with Changes... End Review...

| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|-------|---------|-----------------------|-----------|------------------|------------|----------------|-------|----------|----------|--------------|------------------|-------------------|-----------------|-----------------|--------------|
| pt_id | Species | Common Name | Date | Property Name | County | Ownership | NAD83 | Est_size | Waypoint | Single_plant | Scattered_plants | Dense_monoculture | Scattered_dense | Invasion_Threat | Control_tec |
| 643 | 642 | Lonicera japonica | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | small | loja140 | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 644 | 643 | Lonicera japonica | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | medium | loja139 | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 645 | 644 | Ligustrum sinense | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | small | lisi141 | 0 | 0 | 0 | 1 | Contain_Control | foliar_spray |
| 646 | 645 | Ligustrum sinense | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | medium | lisi133 | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 647 | 646 | Ligustrum sinense | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | medium | lisi134 | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 648 | 647 | Lonicera japonica | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | small | loja154 | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 649 | 648 | Pyrus calleryana | 6/8/2009 | Long_Valley_Farm | Cumberland | TNC | Y | small | Psa20 | 1 | 0 | 0 | 0 | ED_RR | cut_spray |
| 650 | 649 | Lespedeza cuneata | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lecu1Q | 0 | 0 | 1 | 0 | Contain_Control | foliar_spray |
| 651 | 650 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi1Q | 0 | 0 | 0 | 1 | Contain_Control | foliar_spray |
| 652 | 651 | Lonicera japonica | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | loja1Q | 0 | 0 | 1 | 0 | Contain_Control | foliar_spray |
| 653 | 652 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi3Q | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 654 | 653 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi4Q | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 655 | 654 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi5Q | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 656 | 655 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi6Q | 1 | 0 | 0 | 0 | ED_RR | cut_spray |
| 657 | 656 | Lespedeza cuneata | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lecu02Q | 0 | 0 | 1 | 0 | Contain_Control | foliar_spray |
| 658 | 657 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi7Q | 0 | 0 | 1 | 0 | ED_RR | foliar_spray |
| 659 | 658 | Ligustrum sinense | 5/27/2009 | Quewiffle | Hoke | TNC | Y | small | lisi2Q | 0 | 0 | 0 | 0 | ED_RR | foliar_spray |
| 660 | 659 | Lespedeza bicolor | 6/17/2009 | Bowling_Crowley | Hoke | TNC | Y | small | lebi01 | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 661 | 660 | Lespedeza bicolor | 6/17/2009 | Bowling_Crowley | Hoke | TNC | Y | small | lebi1 | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 662 | 661 | Melia azedarach | 6/17/2009 | Bowling_Crowley | Hoke | TNC | Y | medium | meaz03 | 0 | 1 | 0 | 0 | ED_RR | hack_treat |
| 663 | 662 | Pyrus calleryana | 6/17/2009 | Bowling_Crowley | Hoke | TNC | Y | medium | pear | 0 | 1 | 0 | 0 | ED_RR | hack_treat |
| 664 | 663 | Pueraria montana | 6/23/2009 | Bowling_Crowley | Hoke | TNC | Y | small | pumo04 | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 665 | 664 | Albizia julibrissis | 6/25/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | alju04cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 666 | 665 | Melia azedarach | 6/25/2009 | Unknown | Cumberland | Private | Y | small | meaz04cc | 0 | 1 | 0 | 0 | Monitor | cut_spray |
| 667 | 666 | Albizia julibrissis | 6/25/2009 | Fort Bragg | Cumberland | USA | Y | small | alju03cc | 0 | 1 | 0 | 0 | ED_RR | cut_spray |
| 668 | 667 | Ligustrum sinense | 6/25/2009 | Fort Bragg | Cumberland | USA | Y | small | lisi01cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 669 | 668 | Lespedeza bicolor | 6/25/2009 | Fort Bragg | Cumberland | USA | Y | small | lebi08cc | 1 | 0 | 0 | 0 | ED_RR | foliar_spray |
| 670 | 669 | Lespedeza bicolor | 6/25/2009 | Fort Bragg | Cumberland | USA | Y | small | lebi07cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 671 | 670 | Rosa multiflora | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | romu01cc | 1 | 0 | 0 | 0 | ED_RR | foliar_spray |
| 672 | 671 | Microstegium vimineum | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | miv01cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 673 | 672 | Melia azedarach | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | meaz01cc | 0 | 1 | 0 | 0 | ED_RR | cut_spray |
| 674 | 673 | Murdannia keisak | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | muku01cc | 0 | 0 | 1 | 0 | Contain_Control | foliar_spray |
| 675 | 674 | Lespedeza bicolor | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | medium | lebi04cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 676 | 675 | Lespedeza bicolor | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | lebi03cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 677 | 676 | Lespedeza bicolor | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | lebi02cc | 1 | 0 | 0 | 0 | ED_RR | foliar_spray |
| 678 | 677 | Lespedeza cuneata | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | medium | lecu02cc | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 679 | 678 | Lespedeza cuneata | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | large | lecu01cc | 0 | 0 | 1 | 0 | Contain_Control | foliar_spray |
| 680 | 679 | Lespedeza bicolor | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | medium | lebi01cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 681 | 680 | Albizia julibrissis | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | alju02cc | 0 | 1 | 0 | 0 | ED_RR | cut_spray |
| 682 | 681 | Albizia julibrissis | 6/22/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | medium | alju01cc | 0 | 1 | 0 | 0 | ED_RR | hack_treat |
| 683 | 682 | Eragrostis cunula | 6/25/2009 | Fort Bragg | Cumberland | USA | Y | small | ercu01cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 684 | 683 | Lespedeza cuneata | 6/25/2009 | Clarkill | Cumberland | Private | Y | huge | lecu06cc | 0 | 0 | 0 | 1 | Contain_Control | foliar_spray |
| 685 | 684 | Lespedeza cuneata | 6/25/2009 | Clarkill | Cumberland | Private | Y | huge | lecu04cc | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 686 | 685 | Lespedeza cuneata | 6/25/2009 | Clarkill | Cumberland | Private | Y | huge | lecu05cc | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 687 | 686 | Lagerstroemia indica | 6/25/2009 | Clarkill | Cumberland | Private | Y | small | euai01cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 688 | 687 | Lespedeza bicolor | 6/25/2009 | Clarkill | Cumberland | Private | Y | huge | lebi06cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 689 | 688 | Lespedeza cuneata | 6/25/2009 | Clarkill | Cumberland | Private | Y | large | lecu03cc | 0 | 0 | 0 | 1 | Contain_Control | foliar_spray |
| 690 | 689 | Lespedeza bicolor | 6/25/2009 | Clarkill | Cumberland | Private | Y | huge | lebi05cc | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 691 | 690 | Lespedeza bicolor | 6/25/2009 | Unknown | Cumberland | Private | Y | medium | lecu08cc | 0 | 1 | 0 | 0 | Monitor | foliar_spray |
| 692 | 691 | Eragrostis cunula | 6/25/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | small | ercu03cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 693 | 692 | Eragrostis cunula | 6/25/2009 | Carvers_Creek | Cumberland | NC State Parks | Y | medium | ercu02cc | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 694 | 693 | Lespedeza cuneata | 6/25/2009 | Unknown | Cumberland | Private | Y | medium | lecu07cc | 0 | 1 | 0 | 0 | Contain_Control | foliar_spray |
| 695 | 694 | Lespedeza bicolor | 6/25/2009 | Clarkill | Cumberland | Private | Y | small | lebi09cc | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 696 | 695 | Pueraria montana | 7/6/2009 | Haskell | Scotland | Private | Y | large | pumo03 | 0 | 0 | 0 | 0 | ED_RR | foliar_spray |
| 697 | 696 | Rosa multiflora | 7/6/2009 | Haskell | Scotland | Private | Y | medium | romu03 | 0 | 1 | 0 | 0 | ED_RR | foliar_spray |
| 698 | 697 | Pueraria montana | 7/6/2009 | Haskell | Scotland | Private | Y | small | pumo02 | 1 | 0 | 0 | 0 | ED_RR | foliar_spray |

Ready

start Default Weekl... Meetings Microsoft Pow... Microsoft Exce...

NUM

8:50 AM

GIS Data

Troutman_EDRR.mxd - ArcMap - ArcView

File Edit View Bookmarks Insert Selection Tools Window Help

1:10,382

Editor

Task: Create New Feature Target:

Layers

- Treated Invasives
- Invasive Species
 - Common Name
 - Autumn_Olive
 - Chinaberry
 - Chinese_Lespedeza
 - Chinese_Privet
 - Chinese_Wisteria
 - Ground_Civy
 - Heavenly_Bamboo
 - Japanese_Honeysuckle
 - Japanese_Knotweed
 - Japanese_St_Ilglass
 - Johnsongrass
 - Kudzu
 - Marsh_Dawflower
 - Mimosa
 - Multiflora_Rose
 - Shrubby_Lespedeza
 - Sicklepod
 - Tall_Fescue
 - Tree-of-Heaven
 - Weeping_Lovegrass
- Burn Unit
- troutman_stands
- Troutman
 - Troutman Farm
- Hoke_Troutman_5_07
- mncasnd0504_utm
- RCW Trees
- Primary Roads
- Municipal Ares
- County Lines
- Railroad

Identify

Identify from: Invasive Species

Invasive Species

Location: 641,906.266 3,870,311.379 Meters

| Field | Value |
|-------------|-----------------------|
| FID | 916 |
| Shape | Point |
| TYPE | WAYPOINT |
| IDENT | 916106 |
| LAT | 35.237453 |
| COMMENT | 23 JUL 09 10:14 13AM |
| UTM | 1093 |
| LONG | -79.444027 |
| OID | 1067 |
| PT_ID_1 | 1093 |
| SPECIES | A. Autumn_Olive |
| COMMON_NAME | Mimosa |
| DATE | 7/23/2009 |
| PROPERTY_ID | Troutman |
| COUNTY | Polk |
| OWNER_SHP | Private |
| MADES | Y |
| OST_SIZE | large |
| WAYPOINT | ajuto3 |
| SINGLE_PLG | 0 |
| SCATTERED_1 | 0 |
| SCIES_PHOTO | 0 |
| SCAT_TREEID | 0 |
| INVASIONLT | ED_DR |
| CONTROL_TIE | OUTSMRY |
| LOCATION_ID | |
| EDGE_UPLAN | 0 |
| EDGE_FIELD | 0 |
| EDGE_LAKE | 0 |
| EDGE_ROAD | 0 |
| ORNL_FIELD | 0 |
| CLD_FIELD | 0 |
| ROADWAY | 0 |
| FOREST_PSN | 0 |
| FOREST_HAR | 0 |
| FOREST_HDX | 0 |
| DUNE | 0 |
| BEACH | 0 |
| PARK | 0 |
| SOCKY | 0 |
| WETLAND | 0 |
| STREAMBANK | 0 |
| ROAD_GARDE | 0 |
| AG_FIELD | 0 |
| CLD_HOMES | 1 |
| DITCH | 0 |
| MANAGEMENT | add to |
| FIRE_SURPR | 1 |
| FIRE_HAZARD | 0 |
| RECENT_SUR | 0 |
| FUTURE_SUR | 0 |
| MANAGED_R | long term restoration |
| TREAT1_DAT | 04/2009 |
| TREAT1_MST | cut and spray |
| HERBICIDE1 | 41% glyphosate |

Identify Field 1 Feature

Troutman Farms - Treated Invasives

Invasive Species Common Name

- Autumn_Olive
- Chinaberry
- Chinese_Lespedeza
- Chinese_Privet
- Chinese_Wisteria
- Ground_Civy
- Heavenly_Bamboo
- Japanese_Honeysuckle
- Japanese_Knotweed
- Japanese_St_Ilglass
- Johnsongrass
- Kudzu
- Marsh_Dawflower
- Mimosa
- Multiflora_Rose
- Shrubby_Lespedeza
- Sicklepod
- Tall_Fescue
- Tree-of-Heaven
- Weeping_Lovegrass

0 0.125 0.25 0.5 Miles

HWY 15-501

Display Sources Selection Catalog

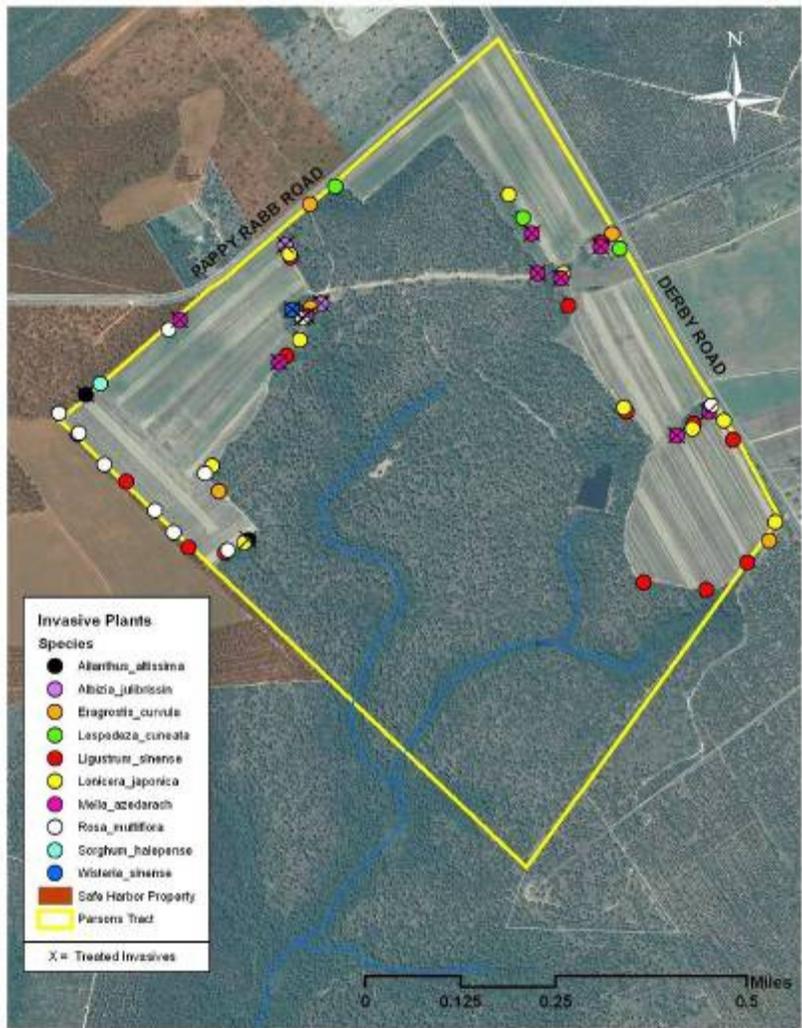
Drawing

641900.69 3878807.92 Meters 5.29 5.88 Inches

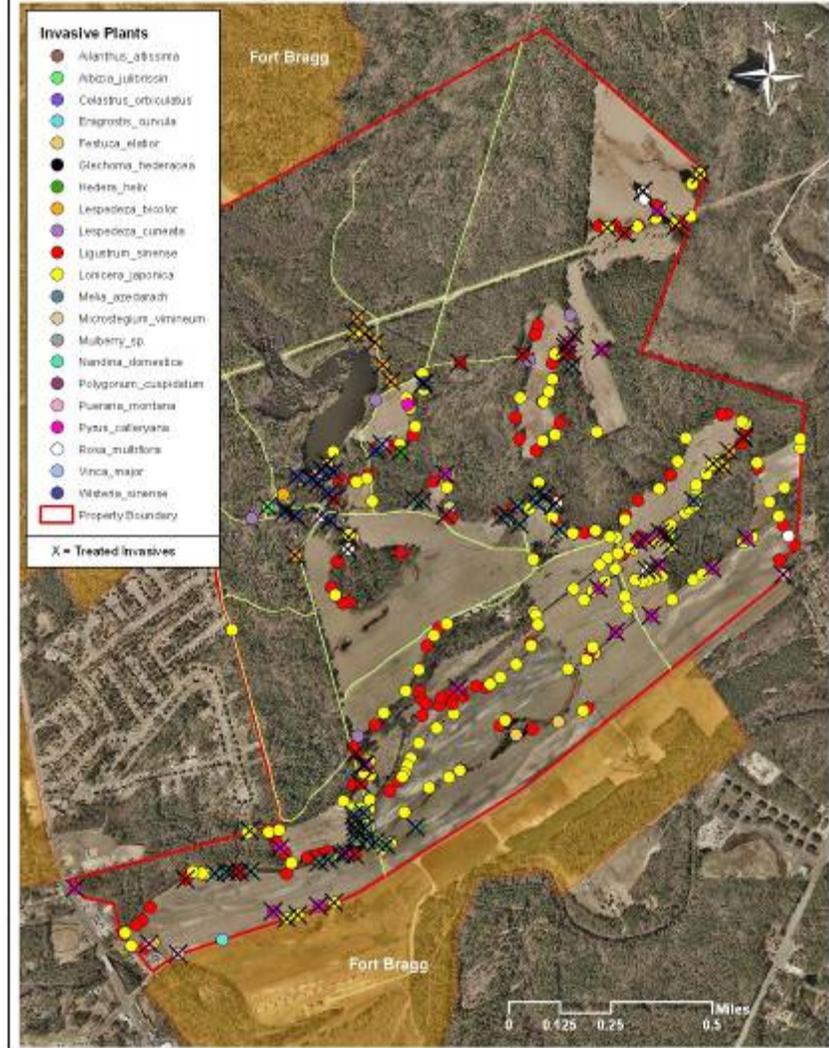
start Default Weekl... Troutman Far... Microsoft Pow... Troutman_ED...

9:01 AM

Parsons Tract Invasive Plants



Long Valley Farm Invasive Plants



Future Activities

- Talk to local nurseries about invasives and native alternatives.
- Engage county and local governments in invasive plant management.
- Continue surveys of conservation lands (we've only surveyed 20,945 acres out of 143,000+ acres).
- Once survey and initial treatment of conservation lands are complete, we plan to survey adjacent lands in order to establish "weed free" buffers zones.

The background of the slide is a solid green color with a faint, repeating pattern of stylized green leaves and stems, creating a natural, organic feel.

Thank You!

Tracy Rush

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www.ncswma.org