

Florida Department of Environmental Protection



Florida Park Service



Doing Things Differently: Tracking Invasive Exotic Plants in the Florida Park Service

21 May 2013





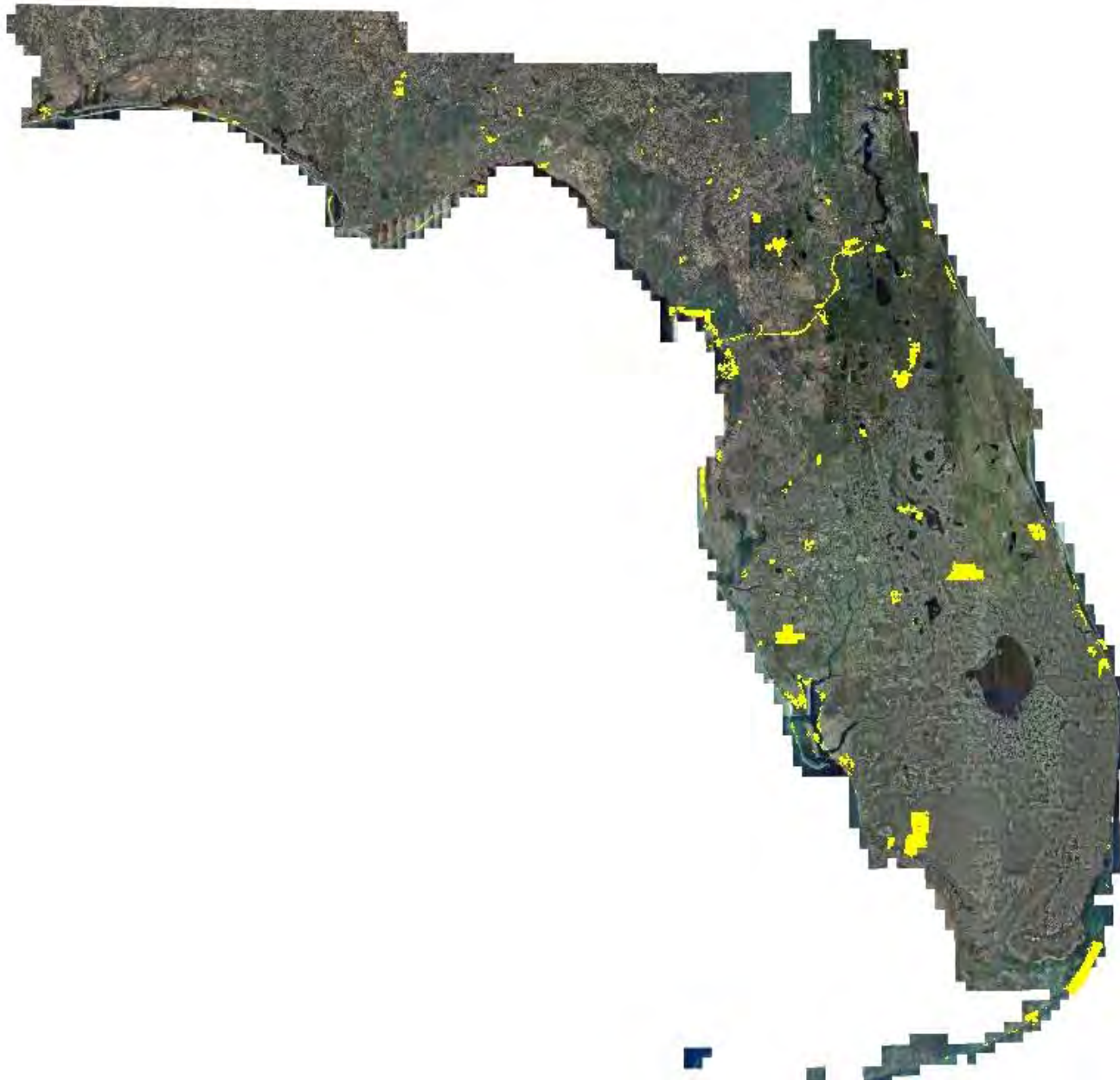
The Big Picture



- 171 State Parks and Trails across 5 Districts
- ~785,000 Acres
- Almost all FNAI Natural Communities are represented
- 94% of Florida's rarest species and natural community types are represented
- Annual visitation ~25 million



The Big Picture





The Big Picture



Florida Park Service Mission Statement:

Provide resource-based recreation while preserving, interpreting and restoring natural and cultural resources.



FPS History of Managing Exotic Plants



- For many years we collected information on “acres treated”
 - Inconsistent system of counting stems and acres
 - Numbers were converted to summarize statewide accomplishments
 - Used MS Excel Spreadsheets
- No state-wide information collected on the extent of the problem (no standardized surveys)



FPS History of Managing Exotic Plants



				Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	
				Acres Treated	Acres Treated	Acres Treated	Acres Treated	Total
Big Lagoon							29.250	29.250
Common name	Scientific name	EPPC Category		acres	stems	acres	stems	
Cogon grass	<i>Imperata cylindrica</i>	I					1.000	
Chinese tallow tree	<i>Sapium sebiferum</i>	I					18.000	76
Moss verbena	<i>Glandularia pulchella</i>	n/a					0.250	
Pampas grass	<i>Cortaderia selloana</i>	n/a					10.000	64
Blackwater River							4.000	4.000
Common name	Scientific name	EPPC Category		acres	stems	acres	stems	
Cogon grass	<i>Imperata cylindrica</i>	I					3.500	
Japanese climbing fern	<i>Lygodium japonicum</i>	I					0.250	
Japanese honeysuckle	<i>Lonicera japonica</i>	I					0.250	
Falling Waters				37.000	65.000			102.000
Common name	Scientific name	EPPC Category		acres	stems	acres	stems	
Japanese climbing fern	<i>Lygodium japonicum</i>	I	35.500		42.000			
Chinese privet	<i>Ligustrum sinense</i>	I		8		52		
Showy rattlebox	<i>Crotalaria spectabilis</i>	n/a		25	23.000			
Cogon grass	<i>Imperata cylindrica</i>	I	0.500					
Mimosa	<i>Albizia julibrissin</i>	I			4.000			
Florida Caverns							0.100	0.100
Common name	Scientific name	EPPC Category		acres	stems	acres	stems	
Nandina	<i>Nandina domestica</i>	I						
Chinese privet	<i>Ligustrum sinense</i>	I						
Grayton Beach					0.010		0.200	0.210
Common name	Scientific name	EPPC Category		acres	stems	acres	stems	
Chinese tallow tree	<i>Sapium sebiferum</i>	I			10			
Cogon grass	<i>Imperata cylindrica</i>	I					0.200	



FPS History of Managing Exotic Plants



- In 2009 we began to “Raise the Bar” for exotic plant data management
 - Established a state-wide committee of FPS staff stake-holders
 - Determined what our needs and resources were
 - Reviewed existing products and methods
- Ultimately decided that we need to develop our own product and protocol



FPS History of Managing Exotic Plants



- Compliant with NAWMA Mapping Standards
- Based on FNAI's methods with significant differences:
 - Multiple species per infestation
 - Not GIS or GPS dependant
- When is an Acre Infested? , Frank Price (FNAI)
 - Wildland Weeds, Spring 2009
- **Infested Area = Gross Area x Midpoint of Cover Class**
- MS Access as database platform



FPS History of Managing Exotic Plants



- Feb 2010 – survey protocol implemented
- May 2010 – database opens for entering
Survey Records
- July 2011 – database opens for setting
Annual Treatment Goals
- Aug 2011 – database opens for entering
Treatment Records

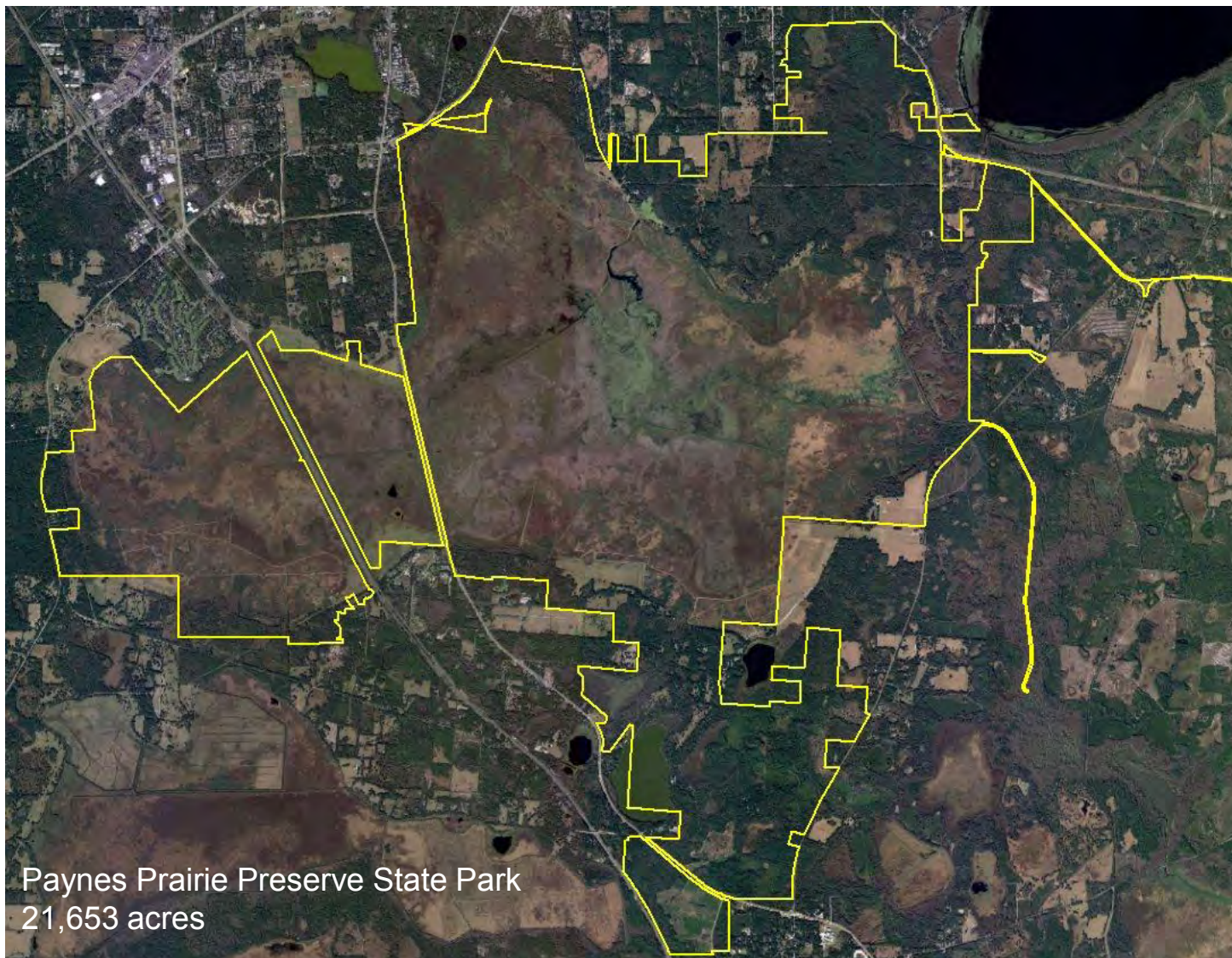


How Does it Work?

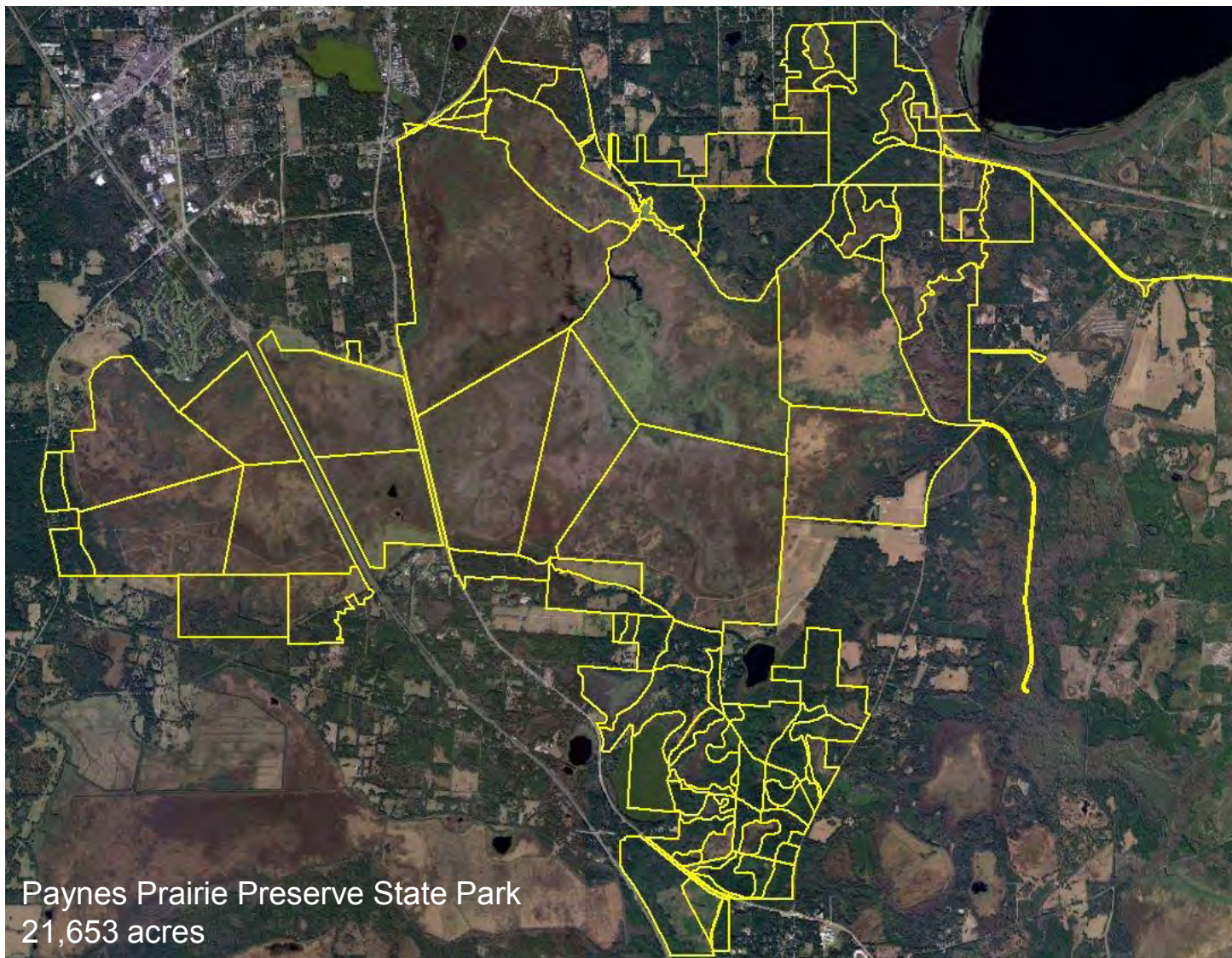


- Spatial Distribution – Management Zones in GIS

How Does it Work?



How Does it Work?



Paynes Prairie Preserve State Park
21,653 acres

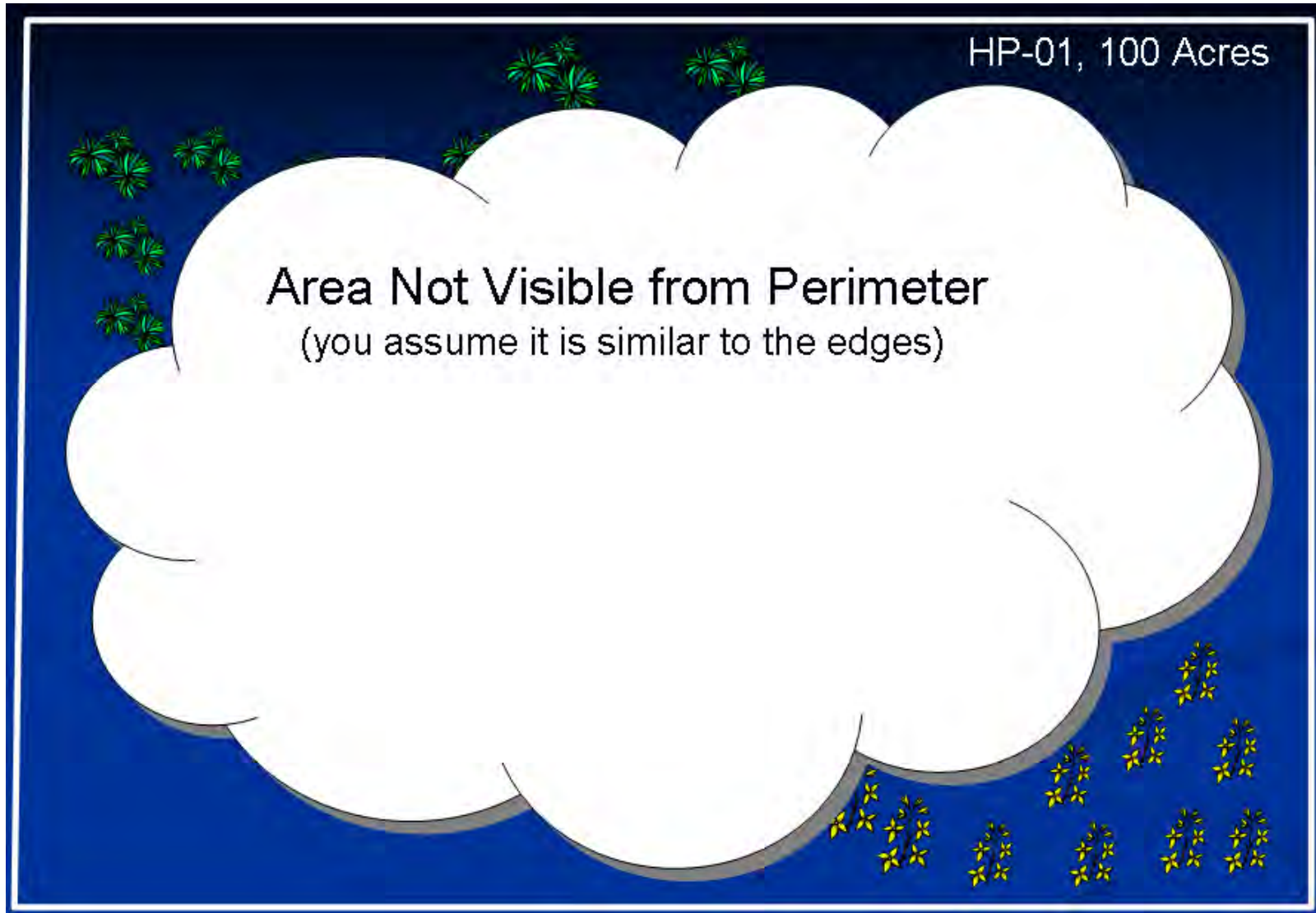


How Does it Work?

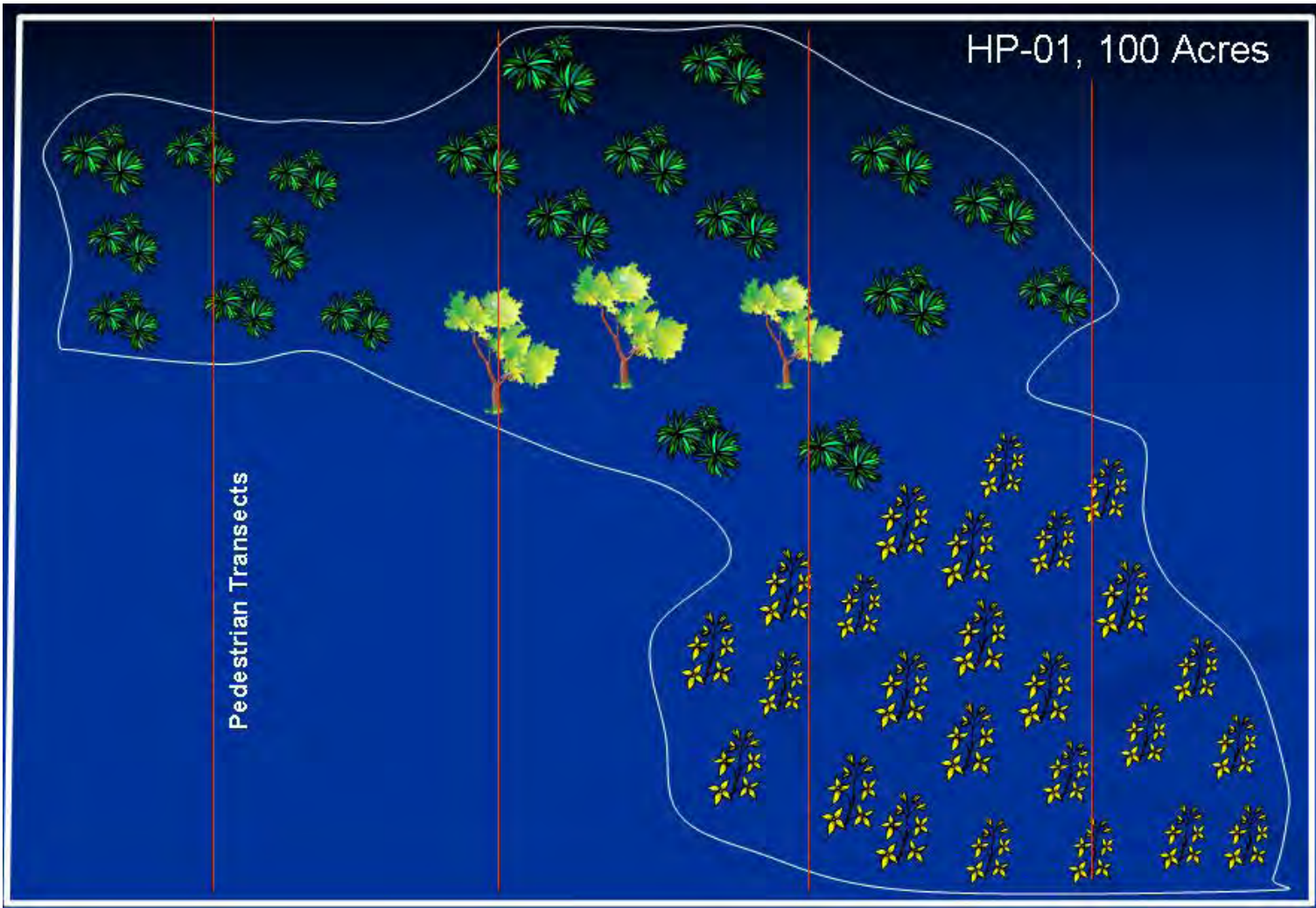


- **Baseline Surveys**
 - Every Management Zone has one or more Survey Records:
 - No Infestation Record (exotic free)
 - Broad Survey
 - Specific Survey(s) of one or more Infestation Areas
 - Core Information:
 - Species
 - Gross Area
 - Cover Class
 - Infested Area
 - calculated by database
 - = Gross Area x midpoint of Cover Class

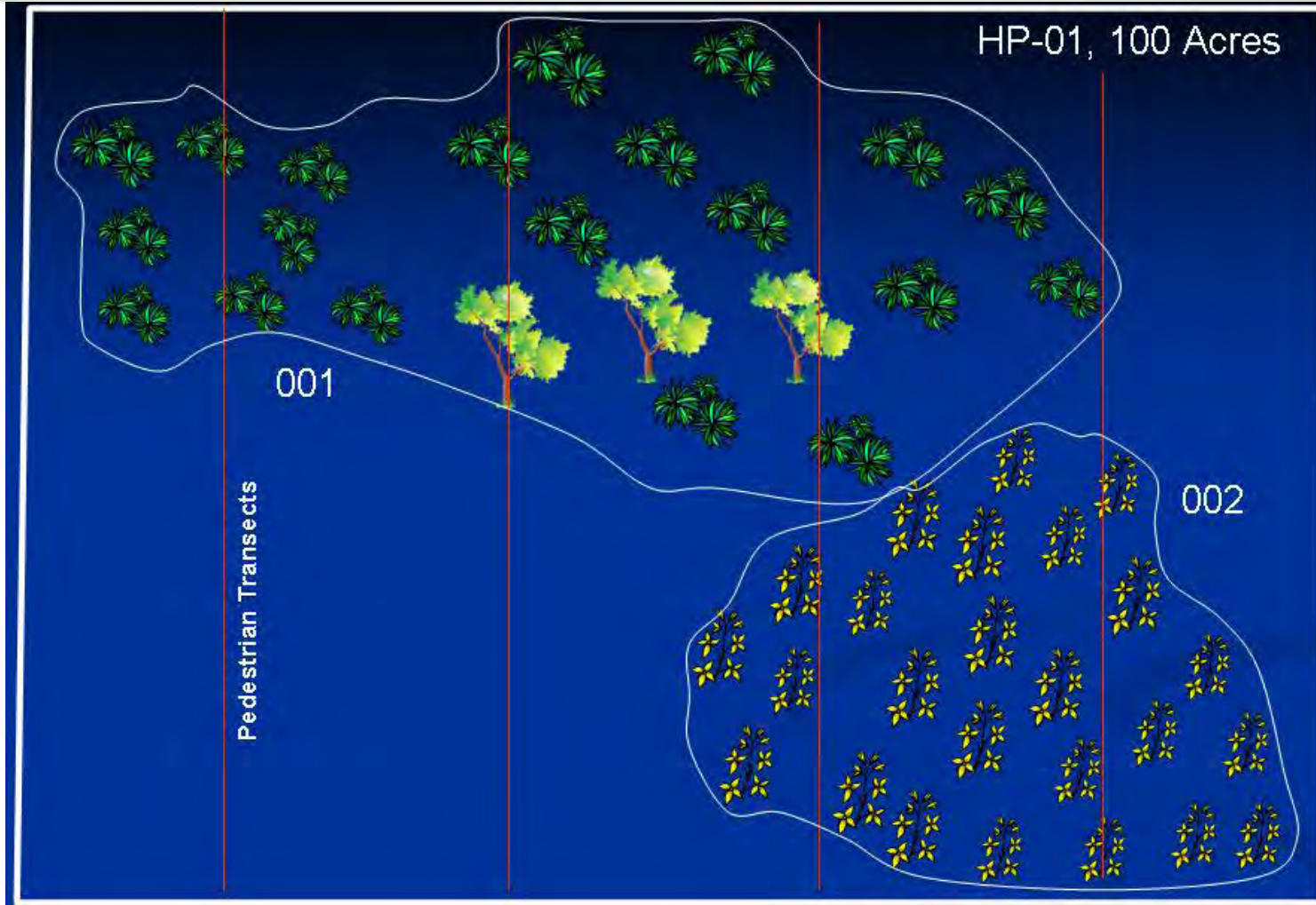
How Does it Work?



How Does it Work?



How Does it Work?





How Does it Work?



- **Baseline Surveys**
 - Every Management Zone has one or more Survey Records:
 - No Infestation Record
 - Broad Survey of one Infestation Area
 - Specific Survey(s) of one or more Infestation Areas
 - **Core Information:**
 - Species
 - Gross Area
 - Cover Class*
 - Infested Area (calculated by database)

How Does it Work?

Cover Classes

Cover Class	Range of Percent Cover	Midpoint of Range
0	0%	0%
1	1% - 5%	3.0%
2	6% - 25%	15.5%
3	26% - 50%	38.0%
4	51% - 75%	63.0%
5	76% - 95%	85.5%
6	96% - 100%	98.0%

How Does it Work?

New Surveys

Create New Survey Record

District: 2
 Park: Paynes Prairie
 Mng Zone: PP-1103
 Infestation Area: PP-1103-001

Abbreviation: PP
 Zone Acres: 138.33

Skip the drill-down, take me to IAs

At time of survey was Area PP-1103-001 in maintenance? Yes No

Survey Date: 5/1/2013
 SurveyType: Broad
 Surveyor: G. Walker
 Current Record: PP-1103-001

Gross Area (acres): 138.3300
 Cover Class: I
 Infested Area (acres): 4.1499

PestPlants - One, and only one, must be dominant; Distribution code needed on all.

	Species	Dominant	Greatest Concern	Distribution:
<input type="checkbox"/>	Chinese tallow tree - <i>Sapium sebifer</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2
<input type="checkbox"/>	cogon grass - <i>Imperata cylindrica</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3
<input checked="" type="checkbox"/>	*	<input type="checkbox"/>	<input type="checkbox"/>	

Survey Notes - Max 65K characters; ctrl-Enter creates a new paragraph.

Next Step

- Create another new record (saves any current data show
- Cancel/Clear all fields (deletes survey data, Inf Area saved.)
- Return (saves any current data shown in center section)

OK You may have to press OK

If you're trying to close this form and get "must enter value", just keep clicking OK until closed.

Record: 1 of 1



How Does it Work?



All Surveys Report

In Maint	Survey Date	Survey Type	Gross Area	CoverClass	Infested Area	Survey Notes	Surveyor
	Dom./Concer		ScientificName - CommonName		FLEP Category	Distribution	
<input checked="" type="checkbox"/>	Greatest Concern	<input checked="" type="checkbox"/> Dominant	Imperata cylindric	cogon grass	I	3	Weimer
<input type="checkbox"/>	Greatest Concern	<input type="checkbox"/> Dominant	Ardisia crenata	coral ardisia	I	2	
PP-1102		2.84 acres					
PP-1102-001		Latitude/Longitude:					
<input type="checkbox"/>	In Maint	5/1/2010 Broad	2.84	2	0.4402		
<input checked="" type="checkbox"/>	Greatest Concern	<input checked="" type="checkbox"/> Dominant	Colocasia esculent	wild taro	I	3	Weimer
<input type="checkbox"/>	Greatest Concern	<input type="checkbox"/> Dominant	Ardisia crenata	coral ardisia	I	2	
<input type="checkbox"/>	Greatest Concern	<input type="checkbox"/> Dominant	Hydrilla verticillata	hydrilla	I	2	
PP-1103		138.33 acres					
PP-1103-001		Latitude/Longitude:					
<input checked="" type="checkbox"/>	In Maint	5/1/2013 Broad	138.33	1	4.1499		
<input checked="" type="checkbox"/>	Greatest Concern	<input checked="" type="checkbox"/> Dominant	Sapium sebiferum	Chinese tallow tre	I	2	G. Walker
<input checked="" type="checkbox"/>	Greatest Concern	<input type="checkbox"/> Dominant	Imperata cylindric	cogon grass	I	3	
<input type="checkbox"/>	In Maint	5/1/2010 Broad	138.176	1	4.1453		
<input type="checkbox"/>	Greatest Concern	<input checked="" type="checkbox"/> Dominant	Ardisia crenata	coral ardisia	I	3	Weimer
PP-1104		113.52 acres					
PP-1104-001		Latitude/Longitude:					
<input type="checkbox"/>	In Maint	5/1/2010 Broad	113.43	1	3.4029		
<input type="checkbox"/>	Greatest Concern	<input checked="" type="checkbox"/> Dominant	Ardisia crenata	coral ardisia	I	3	Weimer



How Does it Work?



Current Conditions Summary Report

Park Summary of Current Conditions

as of 5/15/2013

All Species

Management Zone	Total Acreages	In Maintenance Acres (%)	Gross Area	Infested Area	Number of Inf. Areas
PP-1	812.69	0 (0.0%)	812.68	24.38	1
PP-10	1,057.12	0 (0.0%)	1,057.11	31.71	1
PP-1001	124.58	2 (1.8%)	122.40	3.67	1
PP-101	64.41	0 (0.0%)	64.40	1.93	1
PP-11	544.92	0 (0.0%)	544.92	16.35	1
PP-1101	68.86	0 (0.0%)	68.83	2.06	1
PP-1102	2.84	0 (0.0%)	2.84	0.44	1
PP-1103	138.33	138 (100.0%)	138.33	4.15	1
PP-1104	113.52	0 (0.1%)	113.43	3.40	1
PP-1105	33.82	0 (-0.6%)	34.01	1.02	1
PP-12	1,734.35	0 (0.0%)	1,734.35	52.03	1



How Does it Work?



Current Conditions Summary Report

Management Zone	Total Acreages	In Maintenance Acres (%)	Gross Area	Infested Area	Number of Inf. Areas
PP-38	182.60	0 (0.0%)	182.60	5.48	1
PP-39	49.37	49 (100.0%)	0.00	0.00	0
PP-4	380.94	0 (0.0%)	380.94	11.43	1
PP-40	25.75	26 (100.0%)	0.00	0.00	0
PP-41	47.71	0 (0.2%)	47.62	1.43	1
PP-42	84.67	0 (0.1%)	84.62	2.54	1
PP-5	498.16	7 (1.4%)	491.15	14.73	1
PP-6	639.88	0 (0.0%)	639.87	19.20	1
PP-601	14.72	0 (0.0%)	14.72	2.28	1
PP-7	686.65	0 (0.0%)	686.65	20.60	1
PP-8	1,703.55	0 (0.0%)	1,703.55	51.11	1
PP-801	605.99	-3 (-0.6%)	609.48	19.56	4
PP-802	145.00	0 (0.0%)	145.00	4.35	1
PP-803	25.32	0 (0.0%)	25.33	0.76	1
PP-804	169.25	0 (0.0%)	169.25	5.08	1
PP-805	186.94	0 (0.0%)	186.93	5.61	1
PP-806	98.11	10 (10.1%)	88.24	2.65	1
PP-807	1.49	0 (-0.5%)	1.50	0.23	1
PP-9	2,135.68	0 (0.0%)	2,135.68	64.07	1
Paynes Prairie	21,678.97	2,686 (12.4%)	19,131.09	577.59	64



How Does it Work?



- Entering Annual Treatment Goals
 - Park Managers (or assignee) establish Annual Treatment Goal Prior to July1
 - Division measure is in Infested Acres (not Gross Acres)

How Does it Work?

Treatment Goals

Annual Invasive Exotic Plant Treatment Goals

District: 2
 Park: Paynes Prairie
 FY Desired: 2014 (July 1, 2013 - June 30, 2014)

Total Gross Acres Planned: 19368.807
 Total Inf. Acres Planned: 584.718
 Total Park Infested Acres: 585.479
 % of IA Planned: 99.9%

**Optional check-off/bookmark

** Infestation Area	Plan to Treat?	Planned Gr. Acres	DC* 0-6	Planned Inf. Acres	Notes
PP-10-001	✓	1,057.1100	1	31.7133	
PP-1-001	✓	812.6770	1	24.3803	
PP-1001-001	✓	122.3990	1	3.6720	
PP-101-001	✓	64.3980	1	1.9319	
PP-11-001	✓	544.9200	1	16.3476	
PP-1101-001	✓	68.8290	1	2.0649	
PP-1102-001	✓	2.8400	2	0.4402	
PP-1103-001	✓	138.3300	1	4.1499	
PP-1104-001	✓	113.4300	1	3.4029	
PP-1105-001	✓	34.0080	1	1.0202	
PP-12-001	✓	1,734.3480	1	52.0304	
PP-13-001	✓	1,025.5400	1	30.7662	
PP-1301-001	✓	936.0300	1	28.0809	
PP-1302-001	✓	289.2200	1	8.6766	
PP-1303-001	✓	65.5370	1	1.9661	

Infestation Survey Information

PP-10-001

In Maint

1057.1100 Gross Acres

1 Cover Class

31.7133 Infested Acres

MS Access Tips:

Records are saved automatically, but you can click on the pencil on the left-hand side, or press F9 to 'force save.'

When entering text, use shift-F2 to pop open a larger box and ctrl-Enter to create a new line. Also works for viewing.

* CC = Cover Class

Close Form



How Does it Work?



- Entering Exotic Plant Treatments
 - Tied to a Recorded Infestation Area
 - Similar Core Information
 - Gross Area Treated
 - Cover Class of Species Treated*
 - Optional Information



How Does it Work?



All Entries Done
Add Another

TREATMENT PROJECT

Data Entry Mode

Record ID

10044

MS Access Tips:

To find a record, place your cursor in the field you are searching. Press ctrl-F. Enter the search term and change 'Match' to either 'Start of Field' or 'Any part of Field'. BEST FIELD TO USE: Record ID, if known.

Find Next

Records are saved automatically, but you can click on the pencil on the left-hand side, or press F9 to 'force save.' Pressing 'Esc' twice often backs out your entries when adding/editing the main window.

When entering text, use shift-F2 to pop open a larger box and ctrl-Enter to create a new line. Shft-F2 also works while reading.

Park: Paynes Prairie

Treatment Date: 5/10/2013

Applicator Type:

- FWC-IPM Cntrctr
- DRP Cntrctr
- DRP Staff/Volunteer/AmeriCorps
- Other

Applicator Name: G. Walker Contractor name or staff/vol name

Herbicide Bank?

Notes:

Follow Up Date: [Optional]

Active Inf. Area PP-1103-001

Inf. Area	Treated Gross Acres	Inf. Information	Create New Survey	Species	Cover Class*	Inf. Acres	Opt'l Info	Notes
▶ PP-1103-001	4.5	Inf.	New Surv	Chinese tallow tree	I	0.1350	Opt'l	
* 	0	Inf.	New Surv	cogon grass	II	0.6975	Opt'l	
						0.0000	Opt'l	
Total of Inf. Acres:						0.8325		

Use scroll bars to continue entering data in small windows * Cover class represents % cover of each individual species within the treated area.

How Does it Work?

Optional Treatment Information

Optional Information Paynes Prairie, PP-1103-001, Chinese tallow tree

Edit/Add Mode

TreatmentType: Chemical hack and squirt

Ingredients

Active Ingredient 1: Triclopyr ester (e) Concentration: 22.0%

Active Ingredient 2: Concentration: 0.0%

Adjuvant: Basal Oil Concentration: 78.0%

Gallons of Mix Applied: 45

Hours

Staff: 16

Volunteer: 0

AmeriCorps: 32

Notes:

Close Form

[Esc] twice will undo this record.
For Text boxes:
Shift-F2 to get a larger pop-up. Ctrl-Enter to start a new paragraph.
(true for all MS Access text boxes)



How Does it Work?



Treatment Report

Treatments							
Inf Area	Record ID*	Treatment Date	Applicator Type	Gross Area (acres)	Species Treated	Cover Class	Infested Area (acres)
District 2							
Paynes Prairie							
PP-1103-001	10044	5/10/2013	Staff	4.5000	Chinese tallow tree	I	0.13500
					cogon grass	II	0.69750
							0.83250
PP-13-001	9477	3/19/2013	Staff	3.0000	Japanese climbing fern	III	1.14000
							1.14000
PP-13-001	9474	3/15/2013	Staff	2.0000	camphor-tree	III	0.64600
					coral ardisia	I	0.05100
					glossy privet	II	0.26350
					shrimpplant	II	0.26350
					wandering jew	III	0.64600
							1.87000
PP-31-001	9473	3/16/2013	Staff	0.1000	coral ardisia	V	0.08550
							0.08550
PP-31-001	9472	3/16/2013	Staff	0.1000	coral ardisia	V	0.08550
							0.08550
PP-34-001	9476	3/20/2013	Staff	2.0000	camphor-tree	II	0.31000
					Chinese wisteria	III	0.76000
							1.07000
PP-802-001	9462	3/25/2013	Staff	1.9000	coral ardisia	I	0.05700
					hardy orange	I	0.05700
							0.11400
PP-9-001	9475	3/20/2013	Staff	2.0000	coral ardisia	I	0.06000
					Japanese climbing fern	II	0.31000
					Japanese honeysuckle	IV	1.26000
							1.63000
Park Totals:				15.6000			6.82750



How Does it Work?



Infestation Area History Report

Infestation Area History for PP-1103-001

Date	Surveys						Treatments		
	Gross Area	Cover Class	Infested Area	Distribution	Dominant	Greatest Concern	Gross Area	Cover Class	Infested Area
5/10/2013							4.50		
Chinese tallow tree								I	0.135
cogon grass								II	0.6975
5/1/2013	138.33	I	4.1499						
Chinese tallow tree				2	Yes	Yes			
cogon grass				3	No	Yes			
5/1/2010	138.18	I	4.1453						
coral ardisia				3	Yes	No			



How Does it Work?



Annual Report

Florida Park Service Invasive Exotic Plants Annual Report - Fiscal Year: July 1, 2012 - June 30, 2013

Unit	Summary of Current Conditions / Planning					Accomplishments / Infested Area Treated (acres)						Gross Area Worked
	Total Park Acres	Acres In Maintenance Condition	Gross Area (acres)	Infested Area (acres)	Treatment Goals (Inf. Area)	Total Treated	Quarter 1 July-Sep	Quarter 2 Oct-Dec	Quarter 3 Jan-Mar	Quarter 4 Apr-Jun	% of Goal Met	
Marjorie Kinnan Rawlings	99.630	97.530	26.740	0.162	0.001	3.542	0.689	0.001	2.872	0.000	100%	32.842
Mike Roess Gold Head Branch	2,434.700	1,842.350	994.565	29.472	0.525	0.180	0.180	0.000	0.000	0.000	34%	5.000
O'Leno/River Rise	6,197.390	5,835.640	1,422.520	23.203	1.452	4.002	3.236	0.766	0.000	0.000	100%	86.590
Olustee Battlefield	617.050	613.933	3.117	0.094	0.008	0.009	0.009	0.000	0.000	0.000	100%	3.300
Paynes Prairie	21,678.970	2,154.023	19,368.807	584.718	6.915	82.589	24.378	51.384	5.995	0.833	100%	162.733
Pumpkin Hill	4,087.490	3,994.758	34.671	1.515	0.136	0.311	0.242	0.000	0.069	0.000	100%	3.319
Rainbow Springs	1,476.240	1,234.529	580.701	40.612	7.207	44.387	1.869	29.575	12.942	0.000	100%	615.053
San Felasco Hammock	7,358.700	5,649.180	2,180.379	155.689	28.683	190.257	122.526	43.612	21.157	2.963	100%	574.805
Stephen Foster	903.880	672.729	288.541	25.406	1.545	1.721	1.000	0.721	0.000	0.000	100%	2.900
Suwannee River	1,935.910	1,423.010	679.450	21.983	1.870	0.664	0.484	0.180	0.000	0.000	36%	12.738
Troy Spring	83.540	56.860	56.961	1.735	0.423	0.557	0.557	0.000	0.000	0.000	100%	18.510
Waccasassa Bay	34,228.650	34,198.650	70.620	7.539	0.138	0.197	0.098	0.099	0.000	0.000	100%	3.400
Wes Skiles Peacock Springs	761.020	277.590	483.430	14.628	0.525	6.390	0.000	6.390	0.000	0.000	100%	106.500
Yellow Bluff Fort	1.730	1.730	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100%	0.001
Yulee Sugar Mill Ruins	4.600	2.150	2.450	0.931	0.931	0.018	0.018	0.000	0.000	0.000	2%	0.600
District 2 Total	129,939.46	100,984.20	32,979.53	2,613.46	100.38	421.56	188.35	155.16	60.26	17.79	100%	2,311.16



How Does it Work?



- Mapping Application using FDEP's MapDirect
 - What is FDEP's MapDirect?
 - These layers are also available in ArcGIS

How Does it Work?

Map Direct: Division of Recreation and Parks Florida Department of Environmental Protection

Search Results
[Show in Tabular Database View](#)

Welcome

Find Places

Search Results

Data Layers

Draw Shapes

Florida State Park Exotic Plant Infestations (1 found)
 [1] MR-03A-CG049
 GPS/Specific In Maintenance? No
[Go to this Place](#)

Florida State Park Management Zones (1 found)
 [1] Myakka River State Park Unit S00056, Zone MR-03A
 936.9 acres.
 Last Burn Date: 03/29/2012
[Go to this Place](#)

Florida State Park Boundaries (1 found)
 [1] Myakka River State Park
 Open-Fee Required
 Manatee, Sar County
[Go to this Place](#)

Counties (1 found)
 [1] Sarasota County (FDEP#58)
[Go to this Place](#)

Aerial Imagery Flight Dates 2004-2009 (1 found)
 [1] Sarasota
2004-2009 Aerials Flight Dates:
 12/7/2008, 12/8/2008,
 12/13/2008, 12/16/2008,
 12/17/2008, 12/30/2008,
 1/1/2009, 1/3/2009 and
 1/16/2009
[Go to this Place](#)

Move the Mouse on the Map to see Coordinates. ([Show More](#))
 Set Coordinate System Set Distance Units

Using Tool: Selection Box
 Click Map or Drag Box to Identify Selected Area. Roll Wheel to Zoom.

Pan
 N
 W E
 S
 Zoom
 Back Full Next
 1:24,000
 2001 feet

Hide Toolbar
 Map Direct (v5.130426) | [Print to PDF](#) | [Help](#) | [Disclaimer](#) | [Gateway](#) | [Email This Map](#) | [Contact Us](#)
 Show Toolbar



How Does it Work?



Search Results: Florida State Park Management Zones (1 found)

All Results.

[Show Results in Formatted View](#)

All Results in Database View

[Florida State Park Exotic Plant Infestations](#) 1 found.

Rec#	INFESTATION_AREA_ID	SPECIES_OBSERVED	LAST_SURVEY_DATE	GROSS_AREA	COVER_CLASS	INFESTED_AREA	SURVEY_SCALE	MNGZONE_ACREAGE	DIST	
#1/1	Go Here	MR-03A-CG100	Cogon Grass	10/30/2011	0.2296	1	0.0069000000000000001	Specific	936.88	4

[Florida State Park Management Zones](#) 1 found.

Rec#	UNIT_ID	SITE_NAME	ACREAGE	MANAGEMENT_TYPE	
#1/1	Go Here	S00056	Myakka River State Park	936.9	

[Florida State Park Boundaries](#) 1 found.

Rec#	UNIT_ID	SITE_NAME	DISTRICT	COUNTY	PUBLIC_ACC	
#1/1	Go Here	S00056	Myakka River State Park	4	Manatee, Sar	Open-Fee Required

[Counties](#) 1 found.

Rec#	OBJECTID_1	STATEFP10	COUNTYFP10	COUNTYNS10	GEOID10	NAME10	NAMELSAD10	LSAD10	CLASSFP10	MT	
#1/1	Go Here	51	12	115	00295741	12115	Sarasota	Sarasota County	06	H1	G4

[Aerial Imagery Flight Dates 2004-2009](#) 1 found.

Rec#	OBJECTID	COUNTY_QUAD	FLIGHT_DATE_2007	FLIGHT_DATE_2008	FLIG

Close



How Does it Work?



Florida State Park Management Zones (1 found)

All Results.

RN IN_MAINTENANCE	SURVEY_NOTES	SPECIES_TREATED	LAST_TREATMENT_DATE	LAST_TREATMENT_YEAR	TREATMENT_ID	POINT_SOURCE	INFESTATION_GROUP	OBJECTID
No	Treated 340 Sq Ft	Cogon Grass	10/30/2011	2011	1972	GPS	GPS / SpecificSurv / Not InMaint	2419

TRICT	GROUPING	OBJECTID	SHAPE.AREA	SHAPE.LEN
	SP	2533	3791505.33881311	9089.19295047915

FIRST_ACQ	CLASSIFY	OBJECTID	SHAPE.AREA	SHAPE.LEN
06/23/1936	Park	110	150533664.777411	100869.21996318601

ID	AWATER10	INTPTLAT10	INTPTLON10	OBJECTID	LABEL	COUNTY_ID	NUMPOINTS	SHAPE.AREA	SHAPE.LEN
708	438941172	+27.1843855	-82.3658351	33	Sarasota	58	241	1878640837.38222	207891.174070984

FLIGHT_DATE_2004_2005	YEAR_2004_2009	QUAD_NUM	QUATERQUAD	QUARTER	SHAPE.AREA	SHAPE.LEN

Close



Is It Working?



The Positive Aspects:

- It is standardized (written protocol)
- We now have a statewide picture of the issue
- We can now address program-wide needs
- It provides flexibility for the user
- Reports are geared towards Division Management as well as local users
- We developed it – we can change it



Is It Working?



There are significant challenges:

- Database speed over the network
 - High cost of upgrading to Oracle
- Meeting the needs of hundreds of users & legislation
- Training many users / field staff turnover
- What level of data is “good enough”?
 - Can we measure change over time?
- Gross Area vs. Infested Area confusion
- Achieving “buy-in” from field staff
 - Treatments are part of evaluations but not surveys
- Data hasn’t been exported into a global format



On the Cusp of Change?



- We are currently evaluating the entire system
- We have been asked to set Annual Treatment Goals based on “ecological need” and not available resources.

Questions?



Questions?





Thank You!

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