

ARC COLLECTOR

A REVOLUTIONARY TOOL FOR FIELD DATA COLLECTION



Jessica Spencer – Jacksonville District, Invasive Species Biologist
Douglas Swanson – Portland District, Geographer, GIS Specialist



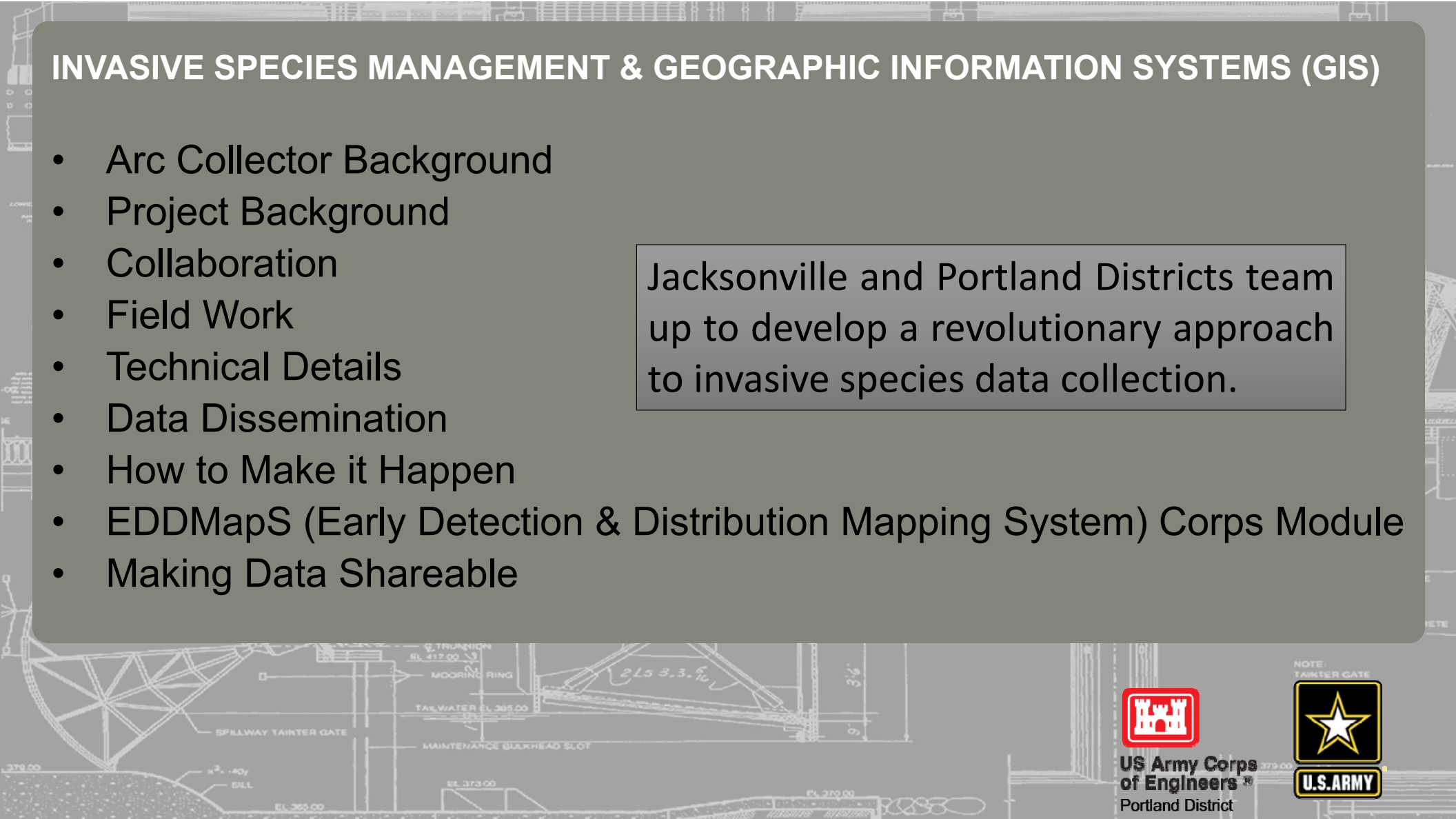
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INVASIVE SPECIES MANAGEMENT & GEOGRAPHIC INFORMATION SYSTEMS (GIS)

- Arc Collector Background
- Project Background
- Collaboration
- Field Work
- Technical Details
- Data Dissemination
- How to Make it Happen
- EDDMapS (Early Detection & Distribution Mapping System) Corps Module
- Making Data Shareable

Jacksonville and Portland Districts team up to develop a revolutionary approach to invasive species data collection.



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COLLECTOR BACKGROUND

ESRI.COM states: Collector for ArcGIS
Accurate data collection made easy

- GPS-based App on a smartphone
- Allows for highly tailored data collection
- Utilizes phone's camera, GPS and Bluetooth link
- Utilizes phone's network to upload data to the Cloud
- Allows feature Location, Information and Photo to be easily collected, stored and shared



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PROJECT BACKGROUND

OBJECTIVE: Revolutionize USACE Field Data Collection for Invasive Species

Field Data can now be collected, loaded and accessed with Corps networks, in real time, without any data-transfer issues.

- CESAJ and CENWP collaborated to generate pre-determined drop-down lists
- Photographs are linked to GIS data automatically
- Information shared via the cloud is immediately ready for viewing and analysis back at the office
- Both terrestrial and aquatic applications were developed
- Experts were involved to ensure compatibility and data sharing with EDDMapS



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COLLECTOR BENEFITS

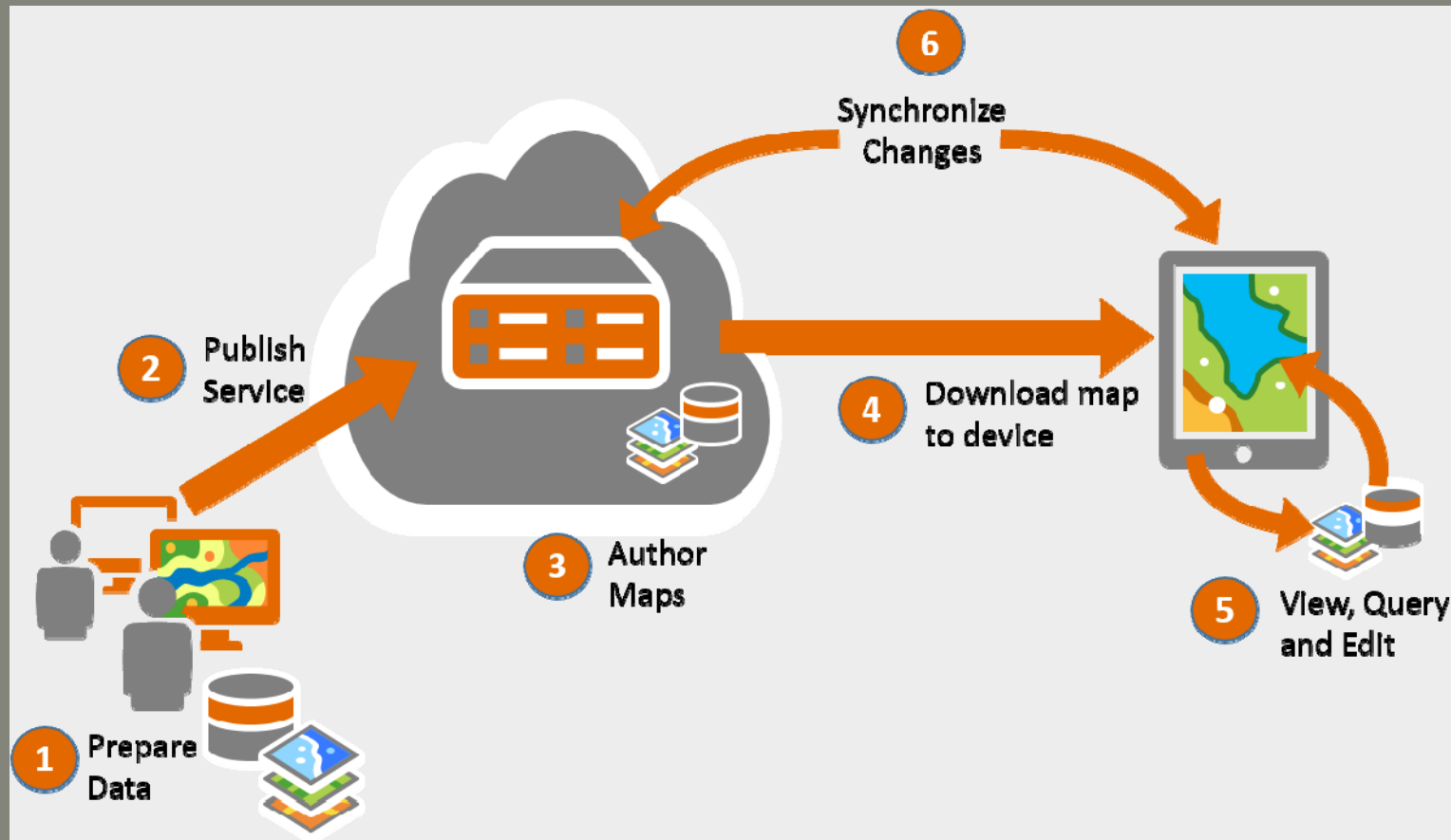


- No downloading photos
- No Air Gap computers
- Less ACE-IT
- Less Frustrations
- No GPS downloads
- TIME savings
- Happy Biologists
- Powerful GIS tool
- Customizable



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COLLECTOR BACKGROUND - WORKFLOW



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COLLABORATION – CESAJ & CENWP

Collaboration is Key. Biologists know what they need; geographers know the software capabilities. Discussions with Terrestrial and Aquatic Biologists and Geographers were critical to getting pre-determined drop-down lists within the GIS data to facilitate quick and easy species tracking in the field.



CESAJ_ISM_COLLECTOR_27JUN18.xls [Compatibility Mode] - Excel

Swanson, Douglas C CIV USARMY CENWP (US)

ISM_AQ_Point	Point				
NAME	TYPE	Characters	Description	Source	Comments
Species	Text	50	Field Biologist enters a description of the feature (Salt Cedar or Tamaricaceae)	Tim	10 Domain names
Acres_Observed	Float	~	A number input by the surveyor to estimate the acreage of species observed		
Survey_Type	Text	14			
Fiscal_Year	Text	6	"FY2018"		
Percent_Effectiveness	Text	7	Percent effectiveness of treatment		
Notes	Text	255	Free flow for comments	ALL	SDS uses "FeatureDescription" EDDMAPS use
ObservationDate	Date	~	Date the feature was GPS'd	EDDMAPS	Autopopulated
Observer	Text	14	auto-populate with G2ECCDCS or USACE_NWP_DCS		
GlobalUniqueID	GUID	~	A unique alphanumeric designation for each and every individual record	SDSFIE	All agree on the value of GUID

CESAJ_ISM_COLLECTOR_27JUN18.xls [Compatibility Mode] - Excel

Swanson, Douglas C CIV USAR

ISM_AQ_WB_Table	Non-Spatial Table related to WB Polygon				
NAME	TYPE	Characters	Description	Source	Comments
Waterbody_Code	S-INT	~			
Survey_Type	Text	14			
Fiscal_Year	Text	6	Can this default to FY with code based on current date? Ie: if 28 Aug THEN 2018		
Season	Text	6	Can this default to a season based on current date? Ie: if 30 Apr THEN Spring		
Species	Text	50	Field Biologist enters a description of the feature (Salt Cedar or Tamaricaceae)	Tim	
Acres_Observed	Float	~	A number input by the surveyor to estimate the acreage of species observed		

SPECIES	TSN for SPECIES	FEATURE_COND	MANGT ACTION	Percent_Cover	ActiveIngredient	HabitatType
ALL	ALL	ALL	ALL	POLYGON	ALL	ALL
Casuarina spp. (Australian pine)	19514	In Flower	Basal Spray	Trace (<1%)	Triclopyr - T	Disturbed
Cinnamomum camphora (camphor tree)	18175	In Fruit	Cut Stump	1-5%	Glyphosate - T	Natural Area
Imperata cylindrica (cogon grass)	41788	Resprouting	Hand Pull	6-25%	Triclopyr - AQ	Other
Lantana camara (lantana)	32175	Seedling	Foliar Spray	26-50%	Glyphosate - AQ	
Leucaena leucocephala (lead tree)	26766	Immature	Biological	51-75%	Imazapyr - T	
Lygodium japonicum (Japanese climbing fern)	17983	Mature	Hack & Squirt	76-95%	Imazamox - AQ	
Lygodium microphyllum (Old World climbing fern)	17984	Dead	Girdle	96-100%	Aminopyralid	
Melia azedarach (Chinaberry)	29024	Seeds	Survey		Aminocyclopyrachlor	
Ricinus communis (castor bean)	28393	Mixed Stand	Other		Other	
Schinus terebinthifolius (Brazilian pepper)	28812	Not Present			N/A *(default)	
Tamarix spp. (Saltcedar)	22303					
Triadica sebifera (Chinese tallow)	522777					
Urena lobata (caesarsweed)	21759					
Other	~					



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IN THE FIELD

Identify the Species

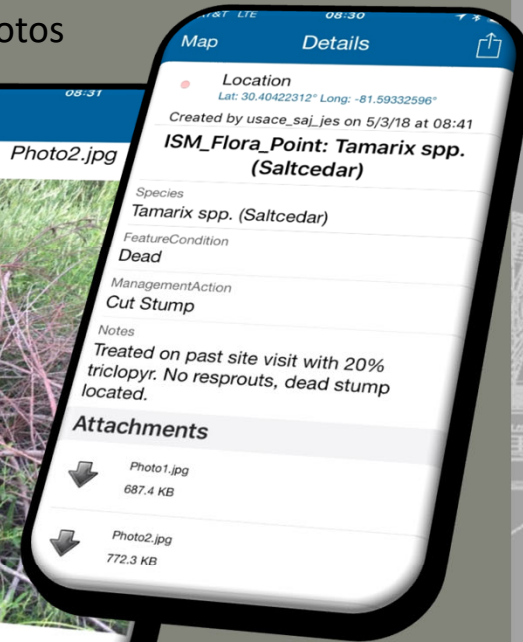
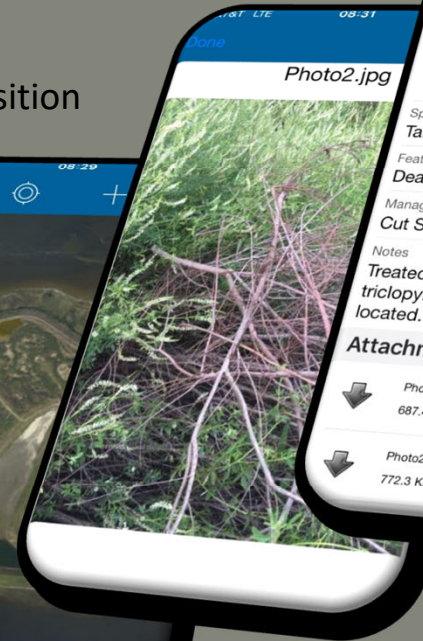
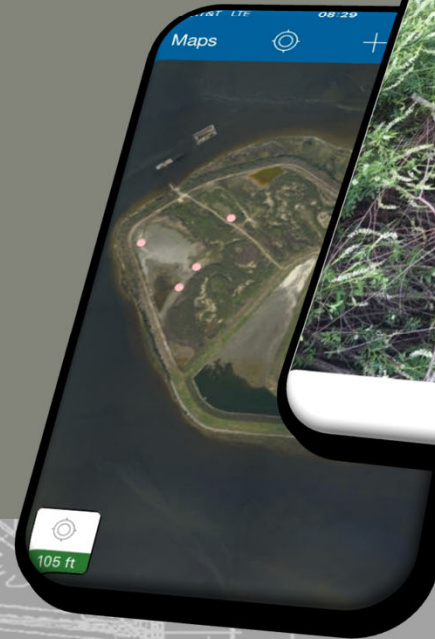
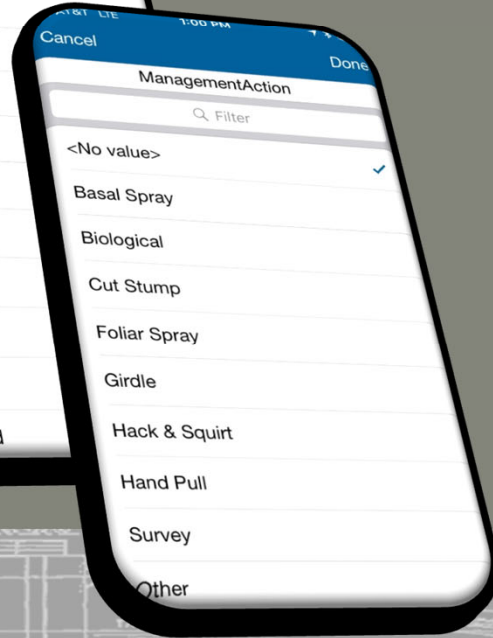
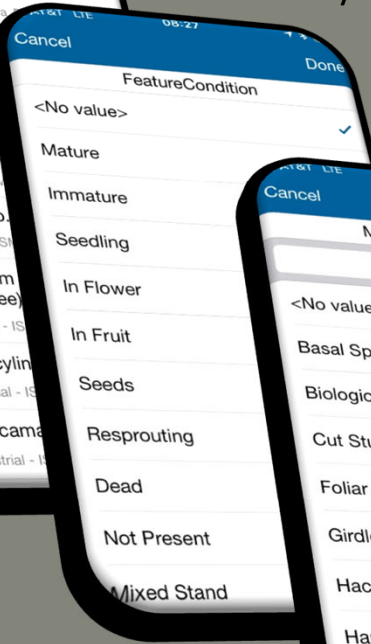
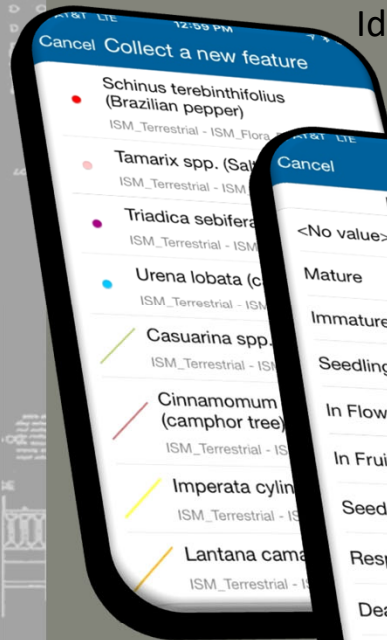
Identify Condition

Management Action Taken

Record Position

Take Photos

Record and photos auto saved to Cloud



Behind the scenes, auto-populated information like Date and Field Observer are automatically recorded.



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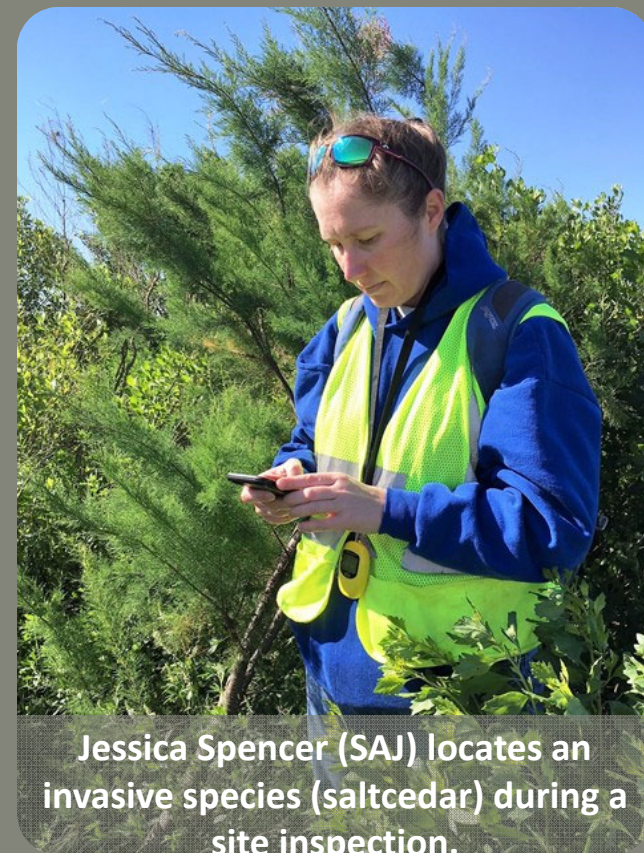
IN THE FIELD

BOTH TERRESTRIAL AND AQUATIC APPLICATIONS WERE CREATED AND ARE FREE AND ACCESSIBLE TO EVERY CORPS OF ENGINEERS EMPLOYEE.



Douglas Swanson (NWP) and Tim Harris (SAJ) use Collector to record aquatic invasive species.

GPS receivers can be bluetoothed to the smart phone to enhance location accuracy.



Jessica Spencer (SAJ) locates an invasive species (saltcedar) during a site inspection.



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TECHNICAL INFORMATION



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ISM_Flora_Point						
NAME	TYPE	Characters	Description	Source	Comments	ORDER
Species	Text	47	Field Biologist indicates which species is observed	Biologist	14 Domain names	1
TSN *(NOT A FIELD)*	~	~	Taxonomic Serial Number - Unique identifier for each	ITIS GOV	Tied to Species through CODE/DESCRIPTION relationship in Domain Properties	
FeatureCondition	Text	20	Life-stage, health or reproductive activity of plant	EDDMAPS	SDS name with EDDMAPS domains	2
ManagementAction	Text	17	The practice used in response to the feature	SDSFIE		3
ActiveIngredient	Text	24	The chemical used to treat the invasive species	Biologist		
HabitatType	Text	12	The condition of the area being surveyed	Biologist		
Notes	Text	255	Free flow for comments	ALL	SDS uses "FeatureDescription" EDDMAPS uses "Comments". "Notes" is shorter word for iphone form?	
ObservationDate	Date	~	Date the feature was GPS'd	EDDMAPS	Autopopulated	5
Observer	Text	14	auto-populate with ArcGIS Online login			
GlobalUniqueID	GUID	~	A unique alphanumeric designation for each and every individual record	SDSFIE	All agree on the value of GUID	
ISM_Flora_Polygon						
NAME	TYPE	Characters	Description	Source	Comments	ORDER
Species	Text	47	Field Biologist indicates which species is observed	Biologist	14 Domain names	1
TSN *(NOT A FIELD)*	~	~	Taxonomic Serial Number - Unique identifier for each	ITIS GOV	Tied to Species through CODE/DESCRIPTION relationship in Domain Properties	
FeatureCondition	Text	20	Life-stage, health or reproductive activity of plant	EDDMAPS	SDS name with EDDMAPS domains	2
ManagementAction	Text	17	The practice used in response to the feature	SDSFIE		3
ActiveIngredient	Text	24	The chemical used to treat the invasive species	Biologist		
HabitatType	Text	12	The condition of the area being surveyed	Biologist		
Square_Feet	INT	6	Calculated from Area of Poly			
Percent_Cover	Text	11	Trace (<1%), Etc.			
Notes	Text	255	Free flow for comments	ALL	SDS uses "FeatureDescription" EDDMAPS uses "Comments". "Notes" is shorter word for iphone form?	
ObservationDate	Date	~	Date the feature was GPS'd	EDDMAPS	Autopopulated	5
Observer	Text	14	auto-populate with ArcGIS Online login			
GlobalUniqueID	GUID	~	A unique alphanumeric designation for each and every individual record	SDSFIE	All agree on the value of GUID	
ISM_Flora_Line						
NAME	TYPE	Characters	Description	Source	Comments	ORDER
Species	Text	47	Field Biologist indicates which species is observed	CESAJ	14 Domain names	1
TSN *(NOT A FIELD)*	~	~	Taxonomic Serial Number - Unique identifier for each	ITIS GOV	Tied to Species through CODE/DESCRIPTION relationship in Domain Properties	
FeatureCondition	Text	20	Life-stage, health or reproductive activity of plant	EDDMAPS	SDS name with EDDMAPS domains	2
ManagementAction	Text	17	The practice used in response to the feature	SDSFIE		3
ActiveIngredient	Text	24	The chemical used to treat the invasive species	Biologist		
HabitatType	Text	12	The condition of the area being surveyed	Biologist		
Width_FT	S INT	~	Distance in feet FROM observer of typical species/condition/action	CESAJ		
Notes	Text	255	Free flow for comments	ALL	SDS uses "FeatureDescription" EDDMAPS uses "Comments". "Notes" is shorter word for iphone form?	
ObservationDate	Date	~	Date the feature was GPS'd	EDDMAPS	Autopopulated	5
Observer	Text	14	auto-populate with ArcGIS Online login			
TSN	INT	6	Taxonomic Serial Number - Unique identifier for each	ITIS GOV		
GlobalUniqueID	GUID	~	A unique alphanumeric designation for each and every individual record	SDSFIE	All agree on the value of GUID	

D3 : *fx* Field Biologist indicates which species is observed

	A	B	C	D	E	
1	ISM_AQ_Point	Point				
2	NAME	TYPE	Characters	Description	Source	Comments
3	Species	Text	50	Field Biologist indicates which species is observed	Biologist	10 Domain names
4	Acres_Observed	Float	~	A number input by the surveyor to estimate the acreage of species observed		
5	Survey_Type	Text	14			
6	Fiscal_Year	Text	6	"FY2018"		
7	Percent_Effectiveness	Text	7	Percent effectiveness of treatment		
8	Notes	Text	255	Free flow for comments	ALL	SDS uses "FeatureDescript
9	ObservationDate	Date	~	Date the feature was GPS'd	EDDMAPS	Autopopulated
10	Observer	Text	14	auto-populate with ArcGIS Online login		
11	GlobalUniqueID	GUID	~	A unique alphanumeric designation for each and every individual record	SDSFIE	All agree on the value of GU
12						
13						
14						
15	ISM_AQ_WB_Table	Non-Spatial Table related to WB Polygon				
16	NAME	TYPE	Characters	Description	Source	Comments
17	Waterbody_Code	S-INT	~			
18	Survey_Type	Text	14			
19	Fiscal_Year	Text	6	Can this default to FY with code based on current date? le: if 28 Aug THEN 2018		
20	Season	Text	6	Can this default to a season based on current date? le: if 30 Apr THEN Spring		
21	Species	Text	50	Field Biologist indicates which species is observed	Biologist	
22	Acres_Observed	Float	~	A number input by the surveyor to estimate the acreage of species observed		
23	Percent_Effectiveness	Text	7	Percent effectiveness of treatment		
24	ManagementAction	Text	22	The action to take in response to the feature	SDSFIE	
25	Notes	Text	255	Free flow for comments	ALL	SDS uses "FeatureDescript
26	ObservationDate	Date	~	Date the feature was GPS'd	EDDMAPS	Autopopulated
27	Observer	Text	14	auto-populate with ArcGIS Online login		
28	GlobalUniqueID	GUID	~	A unique alphanumeric designation for each and every individual record	SDSFIE	All agree on the value of GU
29						
30						

Database Properties

General Domains

Domain Name	Description
ActiveIngredient	Chemical used to treat feature, if applicable
AOR	Area of Responsibility. Defined area within Project.
FeatureCondition	
HabitatType	Condition of Survey Area
ManagementAction	
PercentCover	
Species	

Domain Properties:

Field Type	Text
Domain Type	Coded Values
Split policy	Default Value
Merge policy	Default Value

Coded Values:

Code	Description
19514	Casuarina spp. (Australian pine)
18175	Cinnamomum camphora (camphor tree)
41788	Imperata cylindrica (cogongrass)
26766	Leucaena leucocephala (lead tree)
17983	Ilvandiium iannicum (Japanese climbing fern)

OK Cancel Apply

Database Properties

General Domains

Domain Name	Description
ActiveIngredient	Chemical used to treat feature, if applicable
AOR	Area of Responsibility. Defined area within Project.
FeatureCondition	
HabitatType	Condition of Survey Area
ManagementAction	
PercentCover	
Species	

Domain Properties:

Field Type	Text
Domain Type	Coded Values
Split policy	Default Value
Merge policy	Default Value

Coded Values:

Code	Description
Basal Spray	Basal Spray
Biological	Biological
Cut Stump	Cut Stump
Foliar Spray	Foliar Spray
Girdle	Girdle

OK Cancel Apply

Database Properties

General Domains

Domain Name	Description
ActiveIngredient	Chemical used to treat feature, if applicable
AOR	Area of Responsibility. Defined area within Project.
FeatureCondition	
HabitatType	Condition of Survey Area
ManagementAction	
PercentCover	
Species	

Domain Properties:

Field Type	Text
Domain Type	Coded Values
Split policy	Default Value
Merge policy	Default Value

Coded Values:

Code	Description
Triclopyr - T	Triclopyr - T
Glyphosate - T	Glyphosate - T
Triclopyr - AQ	Triclopyr - AQ
Glyphosate - AQ	Glyphosate - AQ
Imazanvr - T	Imazanvr - T

OK Cancel Apply

TECHNICAL INFORMATION



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NOTE:
TAMPER GATE

IN THE FIELD

Identify the Species

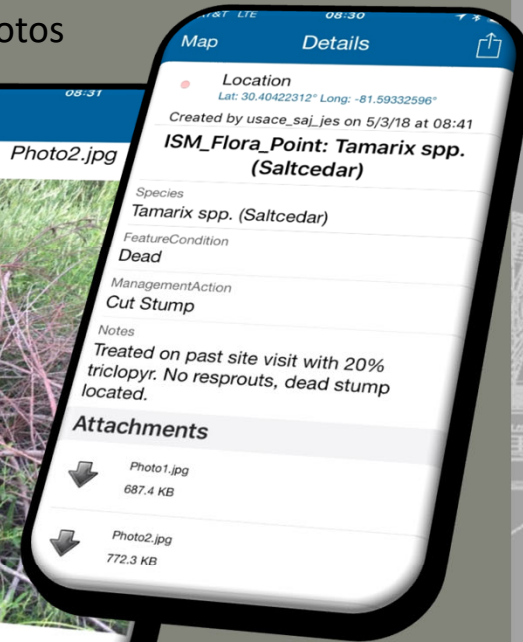
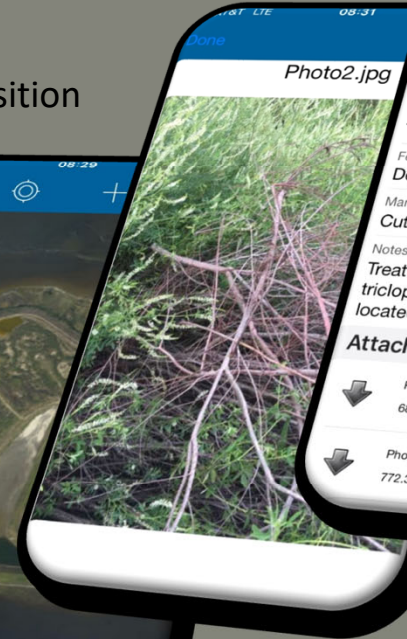
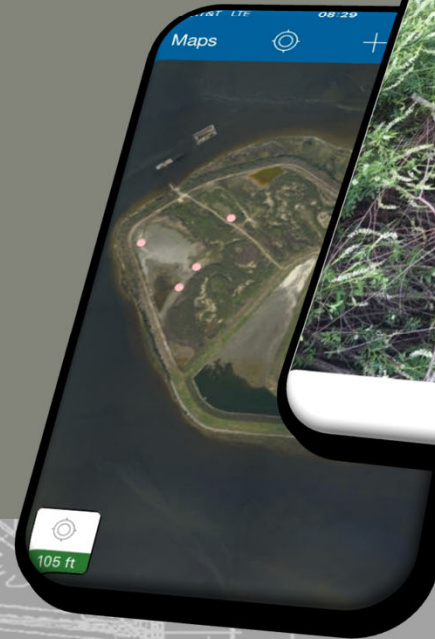
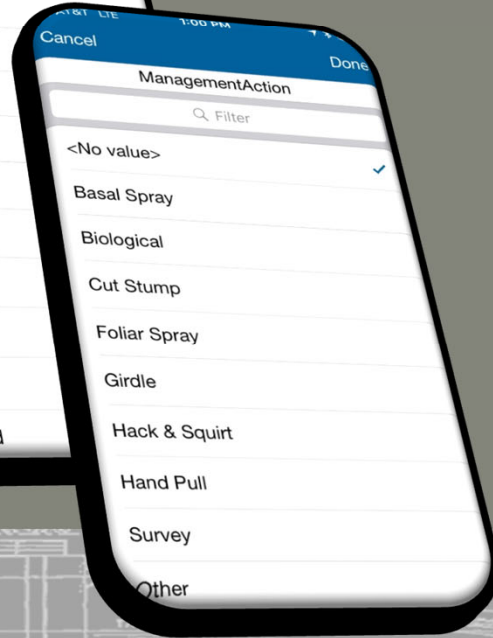
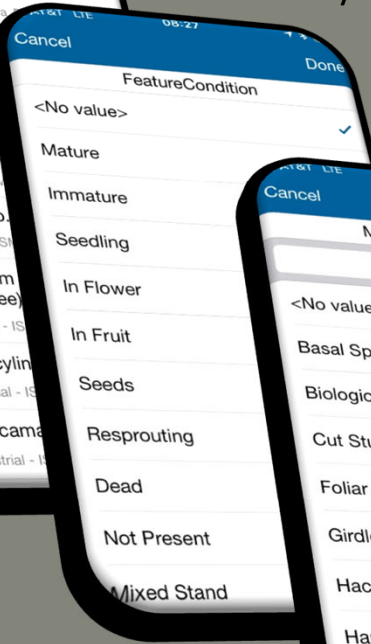
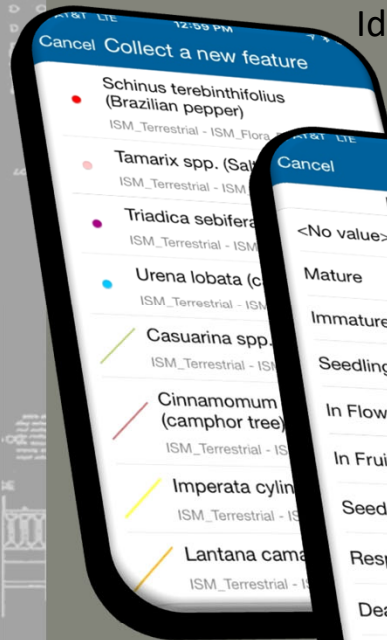
Identify Condition

Management Action Taken

Record Position

Take Photos

Record and photos auto saved to Cloud



Behind the scenes, auto-population information like Date and Field Observer are automatically recorded.



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DATA DISSEMINATION - WEBMAP

https://usace.maps.arcgis.com/home/webmap/viewer.html?webm

Home Invasive Species - Terrestrial - CESAJ

New Map Jessica

Details Add Edit Basemap Analysis

Save Share Print Directions Measure Bookmarks Find address or place

About Content Legend

Legend

TR_Track_Log

●

Invasive_Species_Managment_CESAJ - ISM_Flora_Point

- Casuarina spp. (Australian pine)
- Cinnamomum camphora (camphor tree)
- Imperata cylindrica (cogongrass)
- Lantana camara (lantana)
- Leucaena leucocephala (lead tree)
- Lygodium japonicum (Japanese climbing fern)
- Lygodium microphyllum (Old World climbing fern)
- Melia azedarach (Chinaberry)
- Other
- Ricinus communis (castor bean)
- Schinus terebinthifolius (Brazilian pepper)
- Tamarix spp. (Saltcedar)
- Triadica sebifera (Chinese tallow)
- Urena lobata (caesarsweed)

Invasive_Species_Managment_CESAJ - ISM_Flora_Line

- Casuarina spp. (Australian pine)
- Cinnamomum camphora (camphor tree)
- Imperata cylindrica (cogongrass)
- Lantana camara (lantana)
- Leucaena leucocephala (lead tree)
- Lygodium japonicum (Japanese climbing fern)
- Lygodium microphyllum (Old World climbing fern)
- Melia azedarach (Chinaberry)
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- Ricinus communis (castor bean)
- Schinus terebinthifolius (Brazilian pepper)
- Tamarix spp. (Saltcedar)
- Triadica sebifera (Chinese tallow)
- Urena lobata (caesarsweed)

Trust Center Contact Esri Report Abuse Contact Us



Home Invasive Species - Terrestrial - CESAJ

New Map Create Presentation Invasive

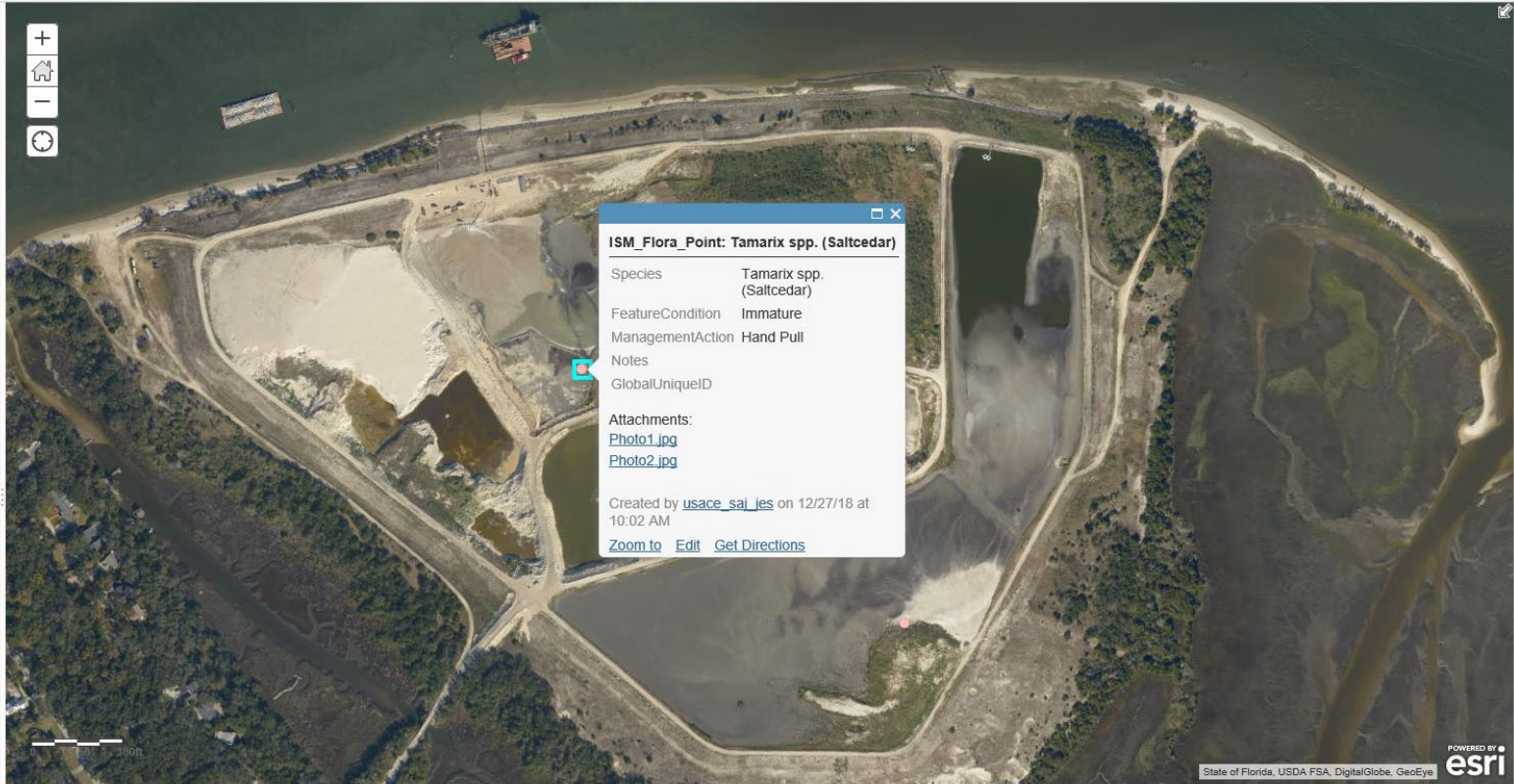
Details Add Edit Basemap Analysis

Save Share Print Directions Measure Bookmarks Find address or place

About Content Legend

Contents

- TR Track Log
- Invasive Species Management CESAJ - ISM Flora Point
 - Casuarina spp. (Australian pine)
 - Cinnamomum camphora (camphor tree)
 - Imperata cylindrica (cogongrass)
 - Lantana camara (lantana)
 - Leucaena leucocephala (lead tree)
 - Lygodium japonicum (Japanese climbing fern)
 - Lygodium microphyllum (Old World climbing fern)
 - Melia azedarach (Chinaberry)
 - Other
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 - Schinus terebinthifolius (Brazilian pepper)
 - Tamarix spp. (Saltcedar)
 - Triadica sebifera (Chinese tallow)
 - Urena lobata (caesarweed)
- Invasive Species Management CESAJ - ISM Flora Line
- Invasive Species Management CESAJ - ISM Flora Polygon



ISM_Flora_Point: Tamarix spp. (Saltcedar)

Species: Tamarix spp. (Saltcedar)
 FeatureCondition: Immature
 ManagementAction: Hand Pull
 Notes:
 GlobalUniqueID:

Attachments:
[Photo1.jpg](#)
[Photo2.jpg](#)

Created by [usace_saj_jes](#) on 12/27/18 at 10:02 AM
[Zoom to](#) [Edit](#) [Get Directions](#)

Invasive Species Management CESAJ - ISM Flora Point (Features: 92, Selected: 1)

Species	FeatureCondition	ManagementAction	Notes	Photos and Files
Tamarix spp. (Saltcedar)	Immature	Hand Pull		(2) Show
Tamarix spp. (Saltcedar)	Seedling	Hand Pull		(2) Show
Tamarix spp. (Saltcedar)	Seedling	Hand Pull		(1) Show
Tamarix spp. (Saltcedar)	Seedling	Hand Pull		(1) Show
Tamarix spp. (Saltcedar)	Seedling	Hand Pull		(1) Show

Invasive Species Management CESAJ - ISM Flora Point

- Pinus* spp. (Australian pine)
- Cinnamomum camphora* (camphor tree)
- Imperata cylindrica* (cogongrass)
- Cordia alliodora* (alligator tree)
- Artocarpus lacucha* (lead tree)
- Adiantum japonicum* (Japanese climbing fern)
- Microphllum* spp. (Old World climbing fern)
- Phytolacca dioica* (Chinaberry)

- Ricinus communis* (castor bean)
- Schinus molle* (Brazilian pepper)
- Tamarix* spp. (Saltcedar)
- Azadirachta indica* (Chinese tallow)
- Albizia julibrissin* (silkworm tree)
- Albizia leonensis* (caesarweed)

Invasive Species Management CESAJ - ISM Flora Line

Invasive Species Management CESAJ - ISM Flora



Invasive Species Management

Species

Tamarix spp. (Saltcedar)

Tamarix spp. (Saltcedar)



Photos and Files

(2) Show

(2) Show

DATA DISSEMINATION - DASHBOARD

 Invasive Species Management Branch Jacksonville District, US Army Corps of Engineers

◀ 2 of 20 ▶

Species Tamarix spp. (Saltcedar)

FeatureCondition Seedling

ManagementAction Hand Pull

Notes

GlobalUniqueID

Photo1.jpg



◀ 1 of 2 ▶

Last update: a minute ago



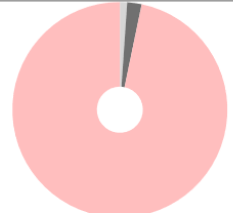
92

Last update: a minute ago

TR_Track_Log

Invasive_Species_Management - ISM_Flora_Point

- Casuarina spp. (Australian pine)
- Cinnamomum camphora (camphor tree)
- Imperata cylindrica (cogongrass)
- Lantana camara (lantana)
- Leucaena leucocephala (leucaena)



Last update: a minute ago

Terrestrial Aquatic

HOW TO MAKE IT HAPPEN

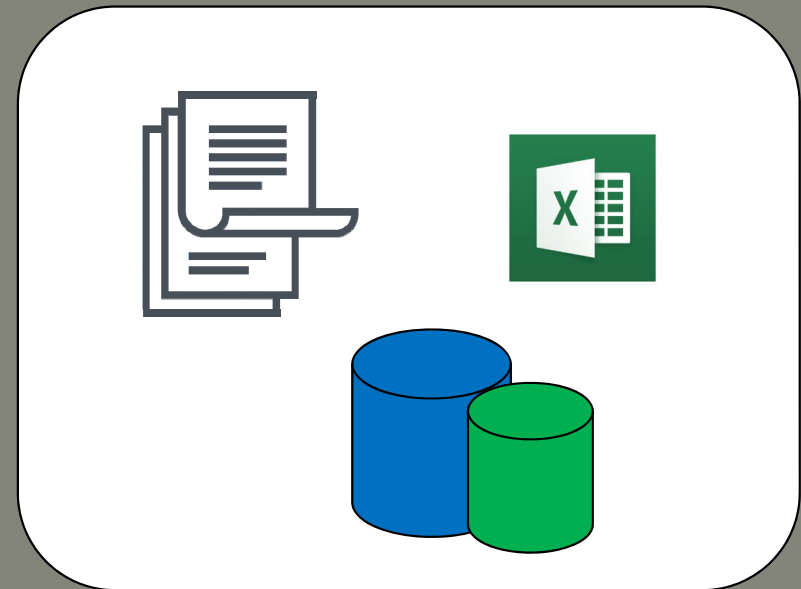
Materials Ready to Share

A Standard Operating Procedure – provides instruction on how to edit existing projects to make them relevant to your area of responsibility

Excel Spreadsheet – contains all of the fields/domains and drop down lists

Terrestrial Geodatabase - provides set up for Arc Collector terrestrial data collection

Aquatic Geodatabase – provides set up for Arc Collector aquatic data collection



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HOW TO MAKE IT HAPPEN

- USACE has an Enterprise License Agreement in place with the software vendor (ESRI). No additional cost for software, apps, cloud storage.
- Every District & Lab has a POC in place for ArcGIS Online access & data management.
- ECB 2018-12 - Transfer of Data Collected by Global Positioning System and Geographic Information System Devices onto CorpsNet approves process.



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NOTE:
TAINTER GATE

EARLY DETECTION & DISTRIBUTION MAPPING SYSTEM



Early Detection & Distribution Mapping System U.S. Army Corps of Engineers®

[Home](#) [Report Sightings](#) [Distribution Maps](#) [Species Information](#) [Tools & Training](#) [My EDDMapS](#) [About](#) [sign out](#)

Distribution Maps

Click on each species to view distribution maps.



Project Name	Division	District
Canyon Lake	Southwestern	Fort Worth
Aquilla Lake	Southwestern	Fort Worth
Arcadia Lake	Southwestern	Tulsa
Arthur B. Ormond Lock (J.W. Rockefeller) - Pool 9	Southwestern	Little Rock
Bardwell Lake	Southwestern	Fort Worth



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EARLY DETECTION & DISTRIBUTION MAPPING SYSTEM

EDDMAPS brings together disparate invasive species data sets (Federal, state, local agency data, as well as citizen scientists)

Data is verified - QA/QC

Provides a better idea of the distribution of species across the United States

Alerts can be set up to notify you when a certain species is reported, or a new report is entered for a county or state

The screenshot displays the EDDMapS web application interface. At the top, the logo for EDDMapS (Early Detection & Distribution Mapping System) is shown, along with the U.S. Army Corps of Engineers logo. A navigation menu includes links for Home, Report Sightings, Distribution Maps, Species Information, Tools & Training, My EDDMapS, and About, with a sign out button on the right. The main content area is titled "Top 15 species within 0 miles of Canyon Lake". Below the title is a list of 15 species, each with a checkmark and a small icon representing the species. The species listed are: Chinese tallowtree, *Triadica sebifera*; red imported fire ant, *Solenopsis invicta*; european starling, *Sturnus vulgaris*; Japanese privet, *Ligustrum japonicum*; hydrilla, *Hydrilla verticillata*; johnsongrass, *Sorghum halepense*; wild pig, *Sus scrofa* (feral type); Texas lupine, *Lupinus texensis*; common mullein, *Verbascum thapsus*; tamarisk, *Tamarix* spp.; chinaberry, *Melia azedarach*; castorbean, *Ricinus communis*; cat (feral), *Felis catus* (feral type); and yellow bluestem, *Bothriochloa ischaemum*. Below the list is a satellite map of Canyon Lake, with a red overlay indicating the distribution of the selected species. The map includes a search bar, a "Map" button, and a "Satellite" button. At the bottom of the map, it says "All species within 0 miles of Canyon Lake".



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EDDMAPS AND THE CORPS OF ENGINEERS

2013 – USACE worked with UGA to develop the EDDMapS Corps Module www.eddmaps.org/usace

Corps Invasive Species Leadership Team is working towards broader use within the Corps

EDDMapS
Early Detection & Distribution Mapping System
U.S. Army Corps of Engineers

Home Report Sightings **Distribution Maps** Species Information Tools & Training My EDDMaps About

Distribution Maps
Click on each species to view distribution maps.

PLANTS INSECTS DISEASES WILDLIFE

Project Name	Division	District
Canyon Lake	Southwestern	Fort Worth
Aquilla Lake	Southwestern	Fort Worth
Arcadia Lake	Southwestern	Tulsa
Arthur B. Ormond Lock (J.W. Rockefeller) - Pool 9	Southwestern	Little Rock
Bardwell Lake	Southwestern	Fort Worth
Birch Lake	Southwestern	Tulsa
Beaver Lake	Southwestern	Little Rock
Belton Lake	Southwestern	Fort Worth
Benbrook Lake	Southwestern	Fort Worth
Cooper Dam and Jim Chapman Lake	Southwestern	Fort Worth
Copan Lake	Southwestern	Tulsa
Dardanelle Lock and Dam (Dardanelle Lake)	Southwestern	Little Rock
David D. Terry Lake (pool 6) - McClellan-Kerr Arkansas River System	Southwestern	Little Rock

Showing 323 to 336 of 398 entries

EDDMapS
Early Detection & Distribution Mapping System
U.S. Army Corps of Engineers

Home Report Sightings **Distribution Maps** Species Information Tools & Training My EDDMaps About [sign out](#)

Top 15 species within 5 miles of Beech Fork Lake

- tree-of-heaven, *Ailanthus altissima*
- multiflora rose, *Rosa multiflora*
- mimosa, *Albizia julibrissin*
- common teasel, *Dipsacus fullonum*
- kudzu, *Pueraria montana var. lobata*
- Japanese knotweed, *Reynoutria japonica*
- Japanese honeysuckle, *Lonicera japonica*
- Japanese stiltgrass, *Microstogium vimineum*
- autumn olive, *Elaeagnus umbellata*
- Amur honeysuckle, *Lonicera maackii*
- Johnsongrass, *Sorghum halepense*
- ground ivy, *Glechoma hederacea*
- cutleaf teasel, *Dipsacus laciniatus*
- poison hemlock, *Conium maculatum*
- butterflybush, *Buddleja davidii*

Map Satellite



NOTE: TAMIER GATE

EDDMAPS CORPS MODULE

EDDMAPS Corps Module allows Corps employees to view the species that have been reported within their project boundaries (by staff and members of the public)

Corps staff can also view invasive species that are within a certain radius of their projects

Helps with development of management strategies

The screenshot displays the EDDMapS web application interface. At the top, the URL is <https://www.eddmaps.org/usace/distribution/projectmap.cfm?site=11002>. The page title is "EDDMapS U.S. Army Corps of Engineers Early Detection & Distribution Mapping System". The navigation menu includes "Home", "Report Sightings", "Distribution Maps", "Species Information", "Tools & Training", "My EDDMapS", and "About", along with a "sign out" button.

The main content area is titled "Top 15 species within 5 miles of Beech Fork Lake". It features a list of 15 species with checkboxes and colored location markers:

- tree-of-heaven, *Ailanthus altissima*
- multiflora rose, *Rosa multiflora*
- mimosa, *Albizia julibrissin*
- common teasel, *Dipsacus fullonum*
- kudzu, *Pueraria montana var. lobata*
- Japanese knotweed, *Reynoutria japonica*
- Japanese honeysuckle, *Lonicera japonica*
- Japanese stiltgrass, *Microstegium vimineum*
- autumn olive, *Elaeagnus umbellata*
- Amur honeysuckle, *Lonicera maackii*
- johnsongrass, *Sorghum halepense*
- ground ivy, *Glechoma hederacea*
- cutleaf teasel, *Dipsacus laciniatus*
- poison hemlock, *Conium maculatum*
- butterflybush, *Buddleja davidii*

Below the list is a satellite map showing the project area with a red boundary and numerous colored location markers. The map includes a "Map" and "Satellite" toggle, a "Google" logo, and a "Report a map error" link.



INCORPORATING DATA INTO EDDMAPS

The Arc Collector projects were specifically designed to be compatible with the EDDMAPS database (linked by TSN number for each species)

Data can be shared with EDDMAPS through a bulk data upload (just send them your files)

Allows EDDMAPS to display Corps data along with all other national data and enhances utility of Corps Module in EDDMAPS

The screenshot shows the EDDMaps Bulk Data Uploader interface. The top navigation bar includes links for Home, Report Sightings, Distribution Maps, Species Information, Tools & Training, My EDDMaps, and About, along with a sign out button. The left sidebar lists navigation options: Overview, Reports, Download, Alerts, Projects, Edit Profile, View Profile, and My Uploads. The main content area is titled "Bulk Data Uploader" and contains the following elements:

- Batch Name (something you will recognize):** An empty text input field with a blue arrow pointing to it from a box labeled "Optional".
- Reporter Name (who should these reports go under):** A text input field containing "Rebekah Wallace".
- Select files:** A green header with a plus icon and the text "Add files to the upload queue and click the start button." Below this is a table with columns for "Filename", "Status", and "Size".
- Table:** A single row is visible with the filename "NPN Canada Thistle 2011.xls", a status of "0%", and a size of "199 kb".
- Upload Queue:** A green box indicates "1 files queued".
- Buttons:** "Upload" and "clear" buttons are located at the bottom of the interface.

Annotations include a blue arrow pointing from the "Optional" box to the Batch Name field, a blue arrow pointing from the "When finished, click Upload" box to the Upload button, and a blue arrow pointing from the "Click Add Files to browse to data files, images, metadata, etc. to load into the Uploader Box" box to the "Select files" header.



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SUMMARIZING DATA FOR OMBIL

Reports can be run on the Arc Collector data to provide summaries for the end of the FY.

EDDMAPS also has an Advanced Query tool that can provide summarized information based on date, location, observer, etc.

Improves the data quality for OMBIL and provides managers with a geospatial database that OMBIL does not contain.

The screenshot displays the EDDMaps web application interface. At the top, there is a search bar and a navigation menu with the following items: Home, Report Sightings, Distribution Maps, Species Information, Tools & Training, My EDDMaps, and About. A 'sign out' button is located on the right side of the navigation bar. The main content area is titled 'Advanced Query Tools' and contains several input fields for filtering data:

- Reporter:** A text input field.
- User Group:** A dropdown menu.
- Observation Date:** A date range selector with 'to' and 'from' fields.
- Date Entered:** A date range selector with 'to' and 'from' fields.
- Date Updated:** A date range selector with 'to' and 'from' fields.
- EDDMaps Record ID:** A text input field.
- Species Information:**
 - Species:** A text input field.
 - Category:** A dropdown menu.
 - Division:** A dropdown menu.
 - Eradication Status:** A dropdown menu.
 - Invasive Species List:** A dropdown menu.
 - Invasive Species List Rank:** A text input field.
- Location Information:**
 - Habitat:** A text input field.
 - Country:** A dropdown menu (currently set to 'United States').
 - State:** A dropdown menu.
 - County:** A dropdown menu.
 - Township:** A dropdown menu.
 - Layers:** A text input field.



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QUESTIONS?

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