

Alaska Weeds ID mobile application: usage, updates, and new target audiences

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The Alaska Weeds ID mobile application was released in August 2015 as a free app for the public to identify invasive plants and report the location of weeds. The overall goal of the app was to educate the public on identification and to acquire more information from the public that contributes to the Alaska Exotic Plant Information Clearinghouse. While downloads of the app are substantial, use of the reporting function has been minimal. In fact, Extension receives more reports via walk-in, phone call, and web-based submission forms. We suspect low reporting is because of the complexity of the report form and that most reports Extension receives are general inquiries. Updates for the app will address this by incorporating a general inquiry form; however, this will not address adding more data into AKEPIC. Other strategies we may employ include targeting land management professionals, advertising, and increasing the number of workshops on identification and reporting with the app. Strategies for increasing use will benefit from promotion of the app by others, in particular when targeting land management professionals.

Alaska Weeds ID Mobile Application

Gino Graziano

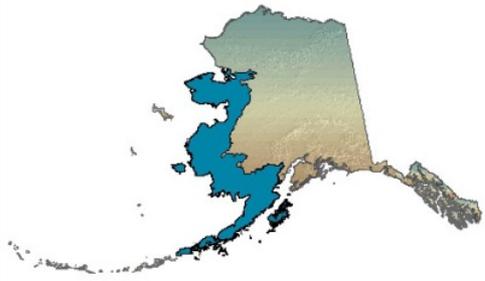
UAF, Cooperative Extension Service

Invasive Plants Instructor

gagraziano@alaska.edu



Western Alaska LCC



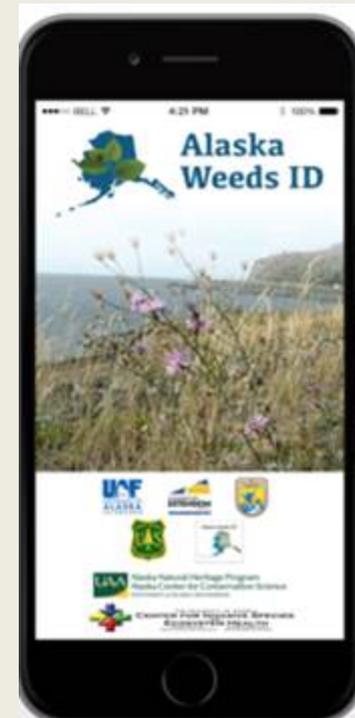
THE UNIVERSITY OF GEORGIA
**CENTER FOR INVASIVE SPECIES
AND
ECOSYSTEM HEALTH**
WARWELL SCHOOL OF FORESTRY AND NATURAL RESOURCES COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Outline

- Initial creation and goals
- How it works
- Reports
- Updates
- New goals and directions

Alaska Weeds ID Mobile Application

- Created by the UAF Cooperative Extension Service, partnering with University of Georgia, with funding from Western Alaska LCC
- Available on IOS and Android
 - 1149 IOS downloads
 - 265 Android downloads
- Works when without coverage



Alaska Weeds ID Mobile Application

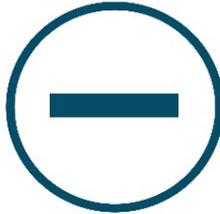
- Goals:
 - Enable identification
 - Enable reporting of weeds
 - Confirm identification of reported weeds
 - Add more data from the public to existing databases
 - Create awareness

Alaska Weeds ID

Reports



Report Form



Negative Survey Form



Upload Queue

Field Guide



Alaska Weeds ID

Field Guide



Species by Category



All Species



My List



Species Key



Alaska Weeds ID



District Species

Miscellaneous



EDDMapS Login

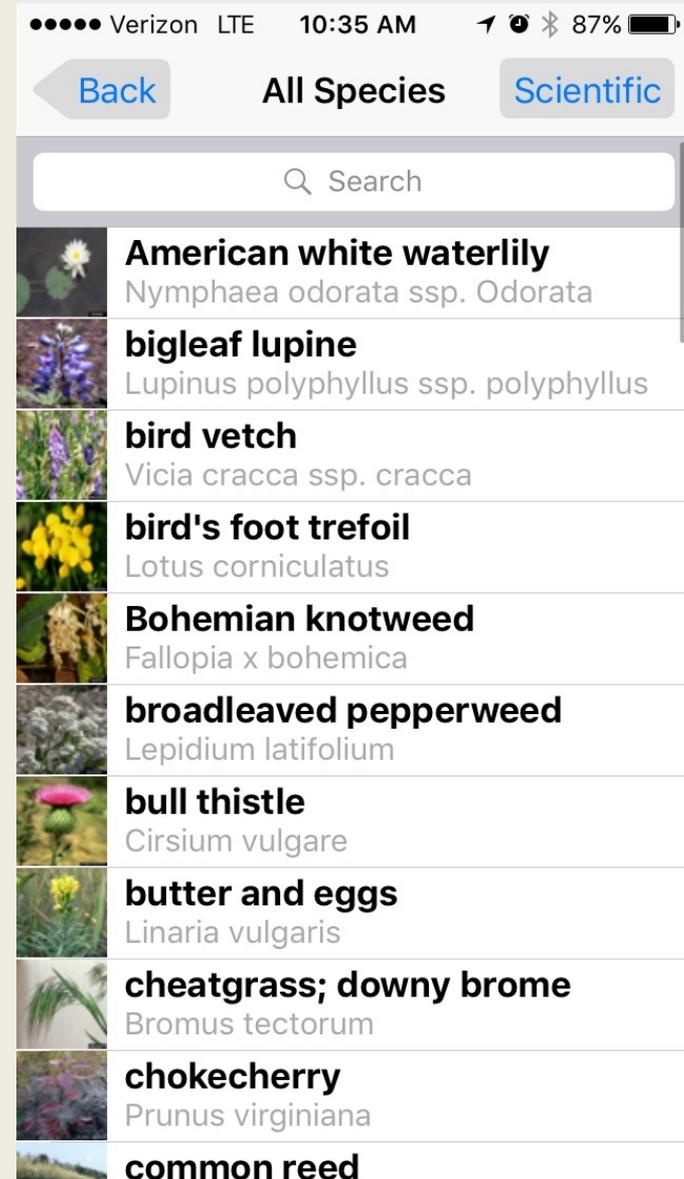
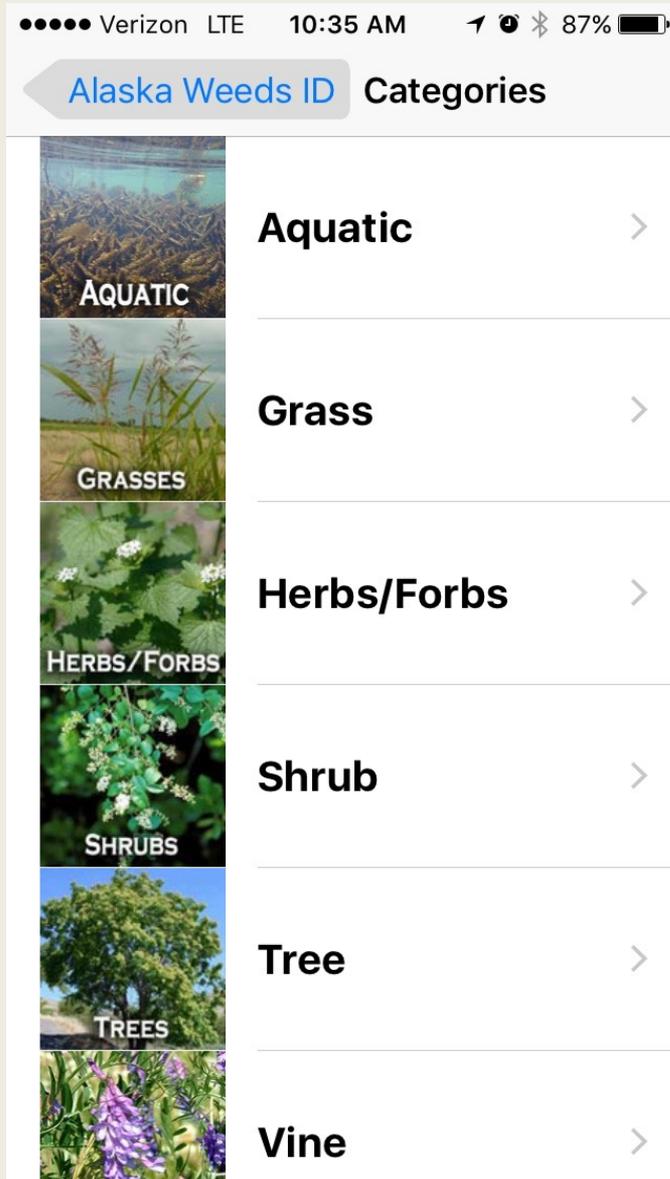


More Options



How To

Species Lists



The Key

Verizon LTE 10:35 AM 87%

Alaska Weeds ID Categories



AQUATIC

Aquatic >



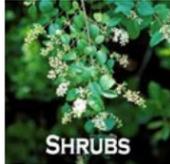
GRASSES

Grass >



HERBS/FORBES

Herbs/Forbs >



SHRUBS

Shrub >



TREES

Tree >



Vine >

Verizon LTE 10:36 AM 86%

Leaf Type Leaf Position



Opposite (1) >



Alternate (10) >



Whorled (0) >

Verizon LTE 10:36 AM 86%

Leaf Position Leaf Margin



Entire/Smooth (5) >



Serrated/Toothed (4) >



Spiny (1) >



Hairy (1) >



Flower

Photo By: Loke T. Kok, Bugwood.org



Report

Cirsium vulgare
bull thistle

Family

Asteraceae

Known in Alaska?

Yes (uncommon, but locally abundant where present)

Native Species Look-alikes

3 native *Cirsium* species are found in meadows and woods in Southeast Alaska, Yukon Territory, and the Aleutian Islands. These native plants have stems that are not winged

Report

Ecological Impact

Competes with native plants for soil moisture and nutrients; decreases forage quality for grazing animals through displacement of native plant species;

Distribution and Abundance

Most commonly found in disturbed areas such as pastures, rangelands, roadsides, and ditches but can also move into undisturbed grasslands, meadows, and forest openings; Currently known in Alaska from Southeast, Southcentral, and Kodiak; Native to Europe, Western Asia, and Northern Africa;

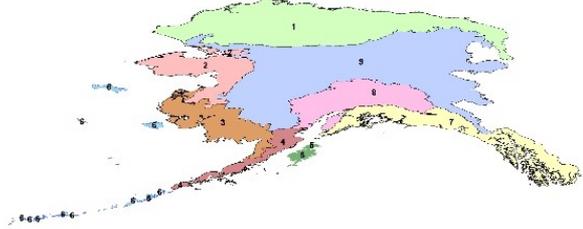
Management

Hand pulling and mowing has been shown to be effective if maintained for at least 4 years:

Weeds in your area

Verizon LTE 10:37 AM 86%

Alaska Weeds ID



A map of Alaska is shown, divided into eight distinct regions, each color-coded and numbered. Region 1 is the northernmost part, colored light green. Region 2 is the Seward Peninsula and Nulato Hills, colored light red. Region 3 is the Yukon-Kuskokwim Delta and Bristol Bay, colored brown. Region 4 is the Alaska Peninsula, colored dark red. Region 5 is the Kodiak Archipelago, colored light blue. Region 6 is the Aleutian and Pribilof Islands, colored pink. Region 7 is the Coastal Forests, colored yellow. Region 8 is South Central Alaska, colored light blue.

1 - Northern Arctic

2 - Seward Peninsula/Nulato Hills

3 - Yukon Kuskokwim Delta and Bristol Bay

4 - Alaska Peninsula

5 - Kodiak Archipelago

6 - Aleutian and Pribilof Islands

7 - Coastal Forests

8 - South Central Alaska

Reporting weeds

Verizon LTE 10:26 AM 89%

Alaska Weeds ID

2015-10-26 10:26 AM

Study Type**

Site Area** (Acres)

 Tap Here to Add Photo

Latitude 58.29942
Longitude -134.416
Accuracy 50.0 m 

Any Extra Information Goes Here

Add Species Save

Verizon LTE 10:27 AM 89%

Cancel

 Aquatic >

 Grass >

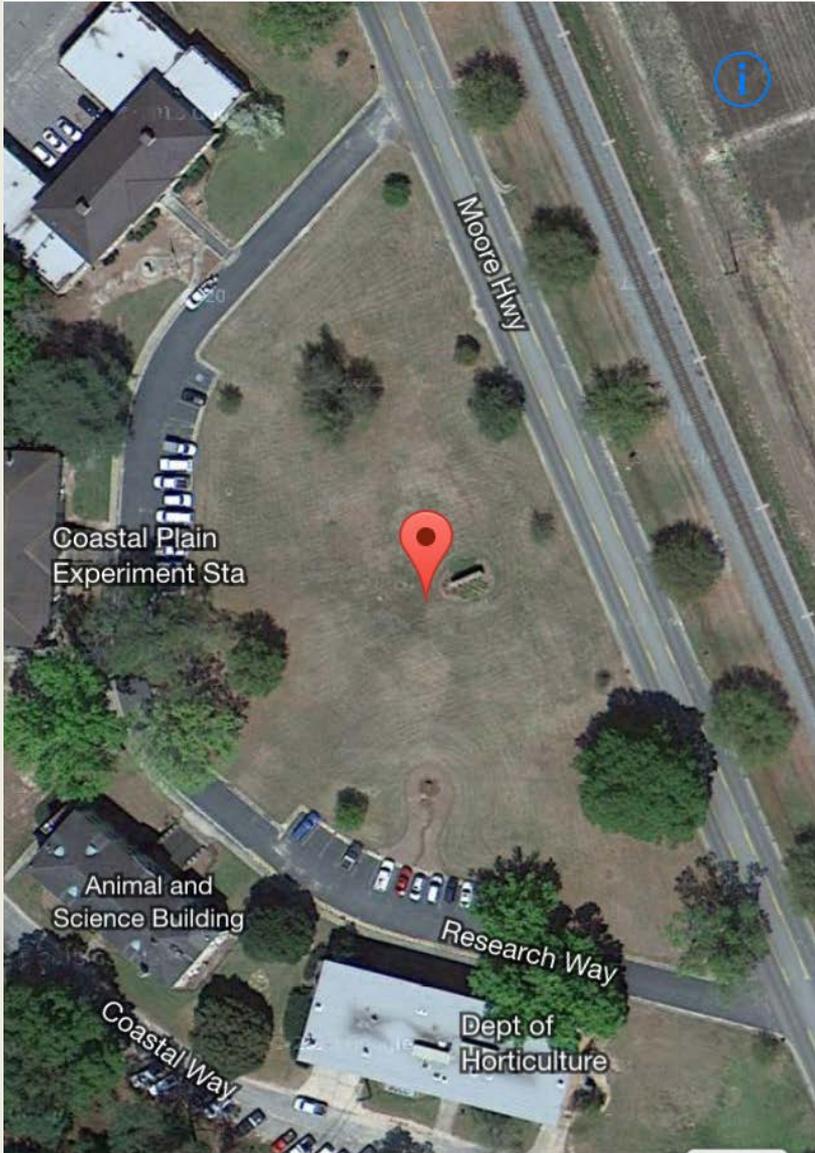
 Herbs/Forbs >

 Shrub >

 Tree >

Categories All Species Favorites Recent

Carrier 10:24 AM
Pin Location:
LAT:31.476442 LNG:-83.524559



Cancel Point Polygon Done

Carrier 10:25 AM
Polygon Drawn:
Approximately 0.7230 Acres



Clear Points Sketch Draw
Cancel Point Polygon Done

Alaska Weeds ID

Latitude 58.29942
Longitude -134.416
Accuracy 50.0 m



broadleaved pepperweed

Infested Area** (Acres)

Canopy Cover**

Disturbance Age (Years)

Stem Count

Herbarium**

Control Action

Aggressiveness

[Remove](#)

- ALA
- TNFS
- UAH
- Not Collected
- Not Curated
- Other
- None

Negative Report Forms

oxeye daisy chokecherry bird v...

1.5219 acre Polygon Drawn

Report Forms



broadleaved pepperweed

2015-10-26 10:26 AM

Negative Report Forms

oxeye daisy chokecherry bird v...

1.5219 acre Polygon Drawn

Report Forms

oadleaved pepperweed

15-10-26 10:26 AM

Delete

What the reports look like

EDDMapS Alaska New Record Added

[Review Records Online](#)
[View Record 4778334](#)

Pest: English ivy, *Hedera helix* L.
Submitted By: Gino Graziano, - Gagraziano@alaska.edu
Observation Date: Oct 14, 2016
Site Name: alaska21637EE8
Latitude: 61.18455
Longitude: -149.7957
Comments: This was a cotoneaster

Image:



Record ID 4778334

Location Information

Elevation 0 meters
Location Anchorage Borough, Alaska
Coordinates 61.1846,-149.796
Site Name alaska21637EE8
Coordinate Uncertainty 10 Meters
Course 0
Speed In Meters Per Second 0

Infestation Information

Gross Area 0 acres
Infested Area 0.001 Acres
Canopy Cover 1%
Infestation Status Positive

Reporter Information

Reporter Gino Graziano
Observation Date October 14, 2016
Date Entered October 14, 2016
Source Type iPhone
Reported By Gino Graziano
Email Gagraziano@alaska.edu

Species Information

Herbarium None

Verification and Review

Reviewed Not Verified

Survey Information

Study Type Highest Priority Species
Comments This was a cotoneaster



Map Satellite

Labels

South Fork Chester Creek

South Fork Chester Creek

South Fork Chester Creek

University Lake Trail

Un

Google

Map data ©2016 Google Imagery ©2016 Terms of Use Report a map error



Record Review

Use this form to verify and release occurrences.

Records marked as Incorrect or Delete will not be released to the public

Reviewed By

Gino Graziano

Verification Method

Photographs ▼

Identified By

Gino

Identification Date

10/14/2016 

Identification Credibility

Incorrect ▼

Report Source ID (?)

Select One ▼

Reviewed/Verified Released (show record in EDDMapS) Private (show record - hide Lat/Long)

Reviewer Comments

This is a cotoneaster|

Submit

Updates

- Increase the number of plants
- Allow for what is this query without the form
- Suggestions on where-geographically to report species

New goals and directions

- Increase reports received
 - 25 in the last year
 - 9 different participants including me
- Agency partners doing informal surveys
- More informal use by us
- Explore incorporating other taxa



AK Weeds ID