### Center For Invasive Species and Ecosystem Health
#### EDDMapS Data Dictionary for Bulk data

<table>
<thead>
<tr>
<th>Category</th>
<th>Field Name</th>
<th>Data type</th>
<th>Description</th>
<th>Example</th>
<th>Required?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reporter Information</strong></td>
<td>Reporter</td>
<td>nvarchar(MAX)</td>
<td>Name of the person, agency, group, organization reporting the data</td>
<td>John Smith or Florida Fish and Wildlife Conservation Commission</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>ObservationDate</td>
<td>datetime</td>
<td>Date the subject was observed/recorded in the field</td>
<td>mm/dd/yyyy; 10/17/2009</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>YearAccuracy</td>
<td>nvarchar(255)</td>
<td>Use when only have year or month/year for observation date</td>
<td>Actual, estimated, published, to the year, to the month</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>dateentered</td>
<td>datetime</td>
<td>Date record is entered into the database</td>
<td>mm/dd/yyyy; 10/17/2009</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Dateupdated</td>
<td>datetime</td>
<td>Date record information is updated in the database</td>
<td>mm/dd/yyyy; 10/17/2009</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Updatedby</td>
<td>nvarchar(MAX)</td>
<td>Person or group who updated the record</td>
<td>John Smith or Florida Fish and Wildlife Conservation Commission</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Species Information</strong></td>
<td>Genus</td>
<td>nvarchar(MAX)</td>
<td>Genus name of the subject</td>
<td>Centaurea</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Species</td>
<td>nvarchar(MAX)</td>
<td>Specific epithet of the subject</td>
<td>stoebe</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>Variety</td>
<td>nvarchar(MAX)</td>
<td>The variety or subspecies of the subject</td>
<td>micranthos</td>
<td>Required</td>
</tr>
<tr>
<td></td>
<td>phenology</td>
<td>nvarchar(MAX)</td>
<td>Description of subject life stage and characteristics</td>
<td>Flowering, Fruiting, Seedling, Mature plant, Adult, Juvenile, Immature, etc.</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Sex</td>
<td>nvarchar(50)</td>
<td>Sex of the subject, if known</td>
<td>Male/Female/Both</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>ObservationIdentifier</td>
<td>nvarchar(100)</td>
<td>Person or group who identified subject</td>
<td>John Smith or Florida Fish and Wildlife Conservation Commission</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Confidence</td>
<td>nvarchar(50)</td>
<td>Confidence of subject identification of the reporter</td>
<td>Unsure, Possible, Probable, Certain</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Voucher</td>
<td>bit</td>
<td>If a herbarium or museum specimen was made</td>
<td>True (1) or false (0)</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Herbarium</td>
<td>char(255)</td>
<td>Name of Herbarium or Voucher Location</td>
<td>University of Georgia Herbarium</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>HerbariumRecord</td>
<td>char(50)</td>
<td>Code associated with the record at Herbarium or Museum</td>
<td>1354832</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Verification and Review</strong></td>
<td>VerificationMethod</td>
<td>nvarchar(255)</td>
<td>Review process, reviewer describing verification method</td>
<td>Expertise, photographs, herbarium specimen</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>IdentificationCredibility</td>
<td>nvarchar(255)</td>
<td>Review process, the reviewer making the call on record information accuracy</td>
<td>Verified or credible</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>ReviewIdentifier</td>
<td>nvarchar(100)</td>
<td>Review process, person or group who identified subject</td>
<td>John Smith or Florida Fish and Wildlife Conservation Commission</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Identificationdate</td>
<td>datetime</td>
<td>Date of subject identification</td>
<td>mm/dd/yyyy; 10/17/2009</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>reviewed</td>
<td>bit</td>
<td>If record is reviewed by a person or group to determine information accuracy</td>
<td>True (1) or false (0)</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>reviewer</td>
<td>nvarchar(50)</td>
<td>Name of Review</td>
<td>John Smith or Florida Fish and Wildlife Conservation Commission</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>datereviewed</td>
<td>datetime</td>
<td>Date record is reviewed by a person or group for record information accuracy</td>
<td>mm/dd/yyyy; 10/17/2009</td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Infestation Information</strong></td>
<td>NumberCollected</td>
<td>nvarchar(255)</td>
<td>Number or description of species observed or collected</td>
<td>4 beetles, 20 birds, 18 egg masses, etc.</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Abundance</td>
<td>int</td>
<td>Distribution pattern and amount of plants</td>
<td>Single plant, Scattered plants. Dense monoculture, Dominant cover, or Linearly scattered</td>
<td>Recommended</td>
</tr>
<tr>
<td></td>
<td>density</td>
<td>nvarchar(50)</td>
<td>Number of plants, or abundant, common, rare, etc.</td>
<td>10-20</td>
<td>Optional</td>
</tr>
<tr>
<td>Grossarea</td>
<td>float</td>
<td>Entire area that a large or discontinuous infestation covers</td>
<td>3 acres; gross area = 3</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>---------</td>
<td>-------------------------------------------------------------</td>
<td>-------------------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Grossareaunits</td>
<td>nvarchar(20)</td>
<td>Unit of measure (acres, sq feet, etc)</td>
<td>3 acres; gross area units = acres</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>Infestedarea</td>
<td>float</td>
<td>Actual amount of infested area within the gross area</td>
<td>2 acres; infested area = 2</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>Infestedareaunits</td>
<td>nvarchar(20)</td>
<td>Unit of measure (acres, sq feet, etc)</td>
<td>2 acres; infested area units = acres</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>canopycover</td>
<td>char(10)</td>
<td>Percent Cover (High, Low, Moderate, Trace, Number)</td>
<td>10% or low</td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>stemcount</td>
<td>nvarchar(50)</td>
<td>Approximate number of stems for infestation, range of numbers</td>
<td>15, or 25-30</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>Treatment</td>
<td>bit</td>
<td>If an attempt at control of invasive species was made (1) or not made (0)</td>
<td>True (1) or false (0)</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td>TreatmentComments</td>
<td>nvarchar(255)</td>
<td>Description and/or date of treatment Type of treatment made (pesticide name, mechanical method, etc), date of treatment, environmental conditions at time of treatment, etc.</td>
<td>Optional</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Location Information**

<table>
<thead>
<tr>
<th>Habitat</th>
<th>nvarchar(255)</th>
<th>Area where the subject was located</th>
<th>Forest</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locality</td>
<td>nvarchar(MAX)</td>
<td>Description about the Habitat</td>
<td>Located at the East edge of forest near pond</td>
<td>Required</td>
</tr>
<tr>
<td>HUC_Number</td>
<td>nvarchar(50)</td>
<td>Hydrologic Unit Code (8-digit number), <strong>Recommended for aquatic species</strong></td>
<td>Little Watershed: 03110204</td>
<td>Optional</td>
</tr>
<tr>
<td>Elevation</td>
<td>int</td>
<td>Elevation from sea level</td>
<td>100 ft = 100</td>
<td>Optional</td>
</tr>
<tr>
<td>Elevation_Units</td>
<td>char(10)</td>
<td>Units of elevation</td>
<td>100 ft = ft</td>
<td>Optional</td>
</tr>
<tr>
<td>DisturbTyp</td>
<td>nvarchar(255)</td>
<td>Description of current or historical disturbance that occurred to habitat</td>
<td>Agriculture, road, trail, fence, mining, logging, hog damage/digging, etc.</td>
<td>Optional</td>
</tr>
<tr>
<td>DisturbSev</td>
<td>nvarchar(255)</td>
<td>Description of severity of disturbance</td>
<td>Light, moderate, heavy</td>
<td>Optional</td>
</tr>
<tr>
<td>ManagementType</td>
<td>nvarchar(255)</td>
<td>Description of priority for land management</td>
<td>Recreation, wildlife, water quality, etc.</td>
<td>Recommended</td>
</tr>
<tr>
<td>ImpactedResources</td>
<td>nvarchar(255)</td>
<td>Description of resource the subject is impacting by infestation</td>
<td>Specific animal sanctuary, endangered species, habitat restoration, etc.</td>
<td>Recommended</td>
</tr>
<tr>
<td>FIPSCode</td>
<td>nchar(5)</td>
<td>FIPS Code of the state and county the subject is located</td>
<td>Clarke county, GA = 13059</td>
<td>Required</td>
</tr>
<tr>
<td>State</td>
<td>int</td>
<td>The state portion of the FIPS Code</td>
<td>13059 = 13</td>
<td>Required</td>
</tr>
<tr>
<td>County</td>
<td>int</td>
<td>The county portion fo the FIPS Code</td>
<td>13059 = 059</td>
<td>Required</td>
</tr>
<tr>
<td>Country</td>
<td>int</td>
<td>Country in which the subject was recorded</td>
<td>United States of America, Canada, Mexico, etc.</td>
<td>Recommended</td>
</tr>
<tr>
<td>Latitude_Decimal</td>
<td>float</td>
<td>Latitude coordinate in decimal degrees</td>
<td>31.450843</td>
<td>Required</td>
</tr>
<tr>
<td>Longitude_Decimal</td>
<td>float</td>
<td>Longitude coordinate in decimal degrees</td>
<td>-83.507764</td>
<td>Required</td>
</tr>
<tr>
<td>City</td>
<td>nvarchar(50)</td>
<td>City of occurance</td>
<td>Atlanta</td>
<td>Optional</td>
</tr>
<tr>
<td>Section</td>
<td>nvarchar(255)</td>
<td>Public land survey system, numbers</td>
<td>034</td>
<td>Optional</td>
</tr>
<tr>
<td>Township</td>
<td>nvarchar(255)</td>
<td>Public land survey system, numbers and letters</td>
<td>45S</td>
<td>Optional</td>
</tr>
<tr>
<td>Range</td>
<td>nvarchar(255)</td>
<td>Public land survey system, numbers and letters</td>
<td>40E</td>
<td>Optional</td>
</tr>
<tr>
<td>Quart</td>
<td>nchar(10)</td>
<td>Public land survey system, Direction and fraction</td>
<td>SW 1/4</td>
<td>Optional</td>
</tr>
<tr>
<td>Quad_Name</td>
<td>nvarchar(255)</td>
<td>Public land survey system, name on quadrangle map</td>
<td>Alton</td>
<td>Optional</td>
</tr>
<tr>
<td>Quad_Number</td>
<td>nvarchar(50)</td>
<td>Public land survey system, Combination of letters and numbers</td>
<td>Q3915</td>
<td>Optional</td>
</tr>
<tr>
<td>QtrQuad</td>
<td>nvarchar(50)</td>
<td>Public land survey system, recorded as &quot;q####direction&quot;</td>
<td>q2103sw</td>
<td>Optional</td>
</tr>
<tr>
<td>gmapszoom</td>
<td>int</td>
<td>Level of zoom when marking a subject in a digital map</td>
<td>1:1000000</td>
<td>Optional</td>
</tr>
<tr>
<td>National_Ownership</td>
<td>char(4)</td>
<td>Federal ownership. Name</td>
<td>Bureau of Land Management (BLM), National Park Service (NPS), etc.</td>
<td>Optional</td>
</tr>
<tr>
<td>Local_Ownership</td>
<td>char(200)</td>
<td>State or regional ownership, description</td>
<td>Stephen Foster State Park</td>
<td>Optional</td>
</tr>
</tbody>
</table>

**Survey Information**

<p>| DataType        | nvarchar(50) | Description of shape of documented subject | Point, Line, Polyline, Polygon, County Record, Quad Record, Quarterquad Record | Recommended |
| StudyType       | nvarchar(50) | Survey method or type | Highest priority species, Single species study, Aerial Survey, Driving Survey, Walking Survey, Specimen, Observaton | Optional |</p>
<table>
<thead>
<tr>
<th>Column</th>
<th>Type</th>
<th>Description</th>
<th>Values</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>visittype</td>
<td>nvarchar(50)</td>
<td>Purpose of visit to area</td>
<td>Control, Monitoring, Recon, Research</td>
<td>Optional</td>
</tr>
<tr>
<td>method</td>
<td>nvarchar(50)</td>
<td>Method of documenting coordinates</td>
<td>GPS, Map, Google Earth, Google Map</td>
<td>Optional</td>
</tr>
<tr>
<td>precision</td>
<td>nvarchar(50)</td>
<td>Accuracy Error (in feet) for geographic coordinate data if number</td>
<td>Accurate, Number Range, Centroid, Approximate</td>
<td>Optional</td>
</tr>
<tr>
<td>Surveyor</td>
<td>nvarchar(255)</td>
<td>Name or initials of surveyor other than Reporter</td>
<td>John Smith; J. S.</td>
<td>Optional</td>
</tr>
<tr>
<td>otherSurveyors</td>
<td>nvarchar(255)</td>
<td>Name or initials of surveyor other than Reporter</td>
<td>Mary Jones, Jane Kelly</td>
<td>Optional</td>
</tr>
<tr>
<td>ReporterAffiliation</td>
<td>nvarchar(50)</td>
<td>Agency or Company that the surveyor is affiliated with</td>
<td>United States Department of Agriculture, USDA</td>
<td>Optional</td>
</tr>
<tr>
<td>ReporterAffiliation2</td>
<td>nvarchar(50)</td>
<td>Agency or Company that the surveyor is affiliated with</td>
<td>Animal &amp; Plant Health Inspection Service</td>
<td>Optional</td>
</tr>
<tr>
<td>project</td>
<td>int</td>
<td>Website reporting form used or bulk data</td>
<td>True (1) or false (0)</td>
<td>Optional</td>
</tr>
<tr>
<td>Srcname</td>
<td>nvarchar(255)</td>
<td>Organization providing data</td>
<td>Florida Fish and Wildlife Conservation Commission</td>
<td>Optional</td>
</tr>
<tr>
<td>Srcid</td>
<td>nvarchar(255)</td>
<td>Organizational number for record</td>
<td>Waypoint or Organization ID</td>
<td>Optional</td>
</tr>
<tr>
<td>SiteName</td>
<td>nvarchar(255)</td>
<td>Specific name of area by organization</td>
<td>GH135</td>
<td>Optional</td>
</tr>
<tr>
<td>URL</td>
<td>nvarchar(255)</td>
<td>URL link to source data record</td>
<td><a href="http://www.invasiveplants.org/specimen/IP65461">www.invasiveplants.org/specimen/IP65461</a></td>
<td>Optional</td>
</tr>
<tr>
<td>NADatum</td>
<td>char(10)</td>
<td>North America Datum</td>
<td>WSG84, NAD83</td>
<td>Recommended</td>
</tr>
<tr>
<td>GPSModel</td>
<td>nvarchar(50)</td>
<td>Brand and model of the GPS used to document the coordinates</td>
<td>Trimble Nomad 900G</td>
<td>Optional</td>
</tr>
<tr>
<td>Comments</td>
<td>nvarchar(MAX)</td>
<td>Anything that is relevant to the subject, environment, mapping</td>
<td>&quot;Infestation across road from landscaping with many documented invasive species&quot;</td>
<td>Optional</td>
</tr>
<tr>
<td>Actionable</td>
<td>bit</td>
<td>True (1) or false (0), Want data entered, but not available to view</td>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td>private</td>
<td>bit</td>
<td>True (1) or false (0), Doesn’t show latitude or longitude</td>
<td></td>
<td>Optional</td>
</tr>
</tbody>
</table>

Updated 7/19/2011