UW Botanic Gardens
Washington Park Arboretum
Interactive Web Map

Building a georeferenced database from print inventory maps

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UW Botanic Gardens has two sites:

- Center for Urban Horticulture
- Washington Park Arboretum
Collection data stored in **BG-Base**: proprietary, steep learning curve, limited to 6 users
Basic collection search on website, must be manually updated with export from BG-Base
Both give map grid location code, but neither pinpoint the exact location in the grid
Over 10,000 specimens in Living Collection, most are mapped.
Grid original installed in the 1950’s & updated in 1970’s.
544 monument points make 582 100’ x 100’ grids.
Plants and other features are mapped with tape measures
Paper maps are information dense & high resolution
Maps are not searchable, not easily updated nor available to public or most staff
$119,000 grant:
Purchase total station
Survey the grid
Digitize accession inventory maps
Build web application

+ Integrate Herbarium records
Digitize historic print records

= Georeferenced Database of Arboretum plant collections
Surveying

Paper Maps

Georeferencing

Digitizing

BG-Base Botanic Garden Database

High-resolution aerial photography from WAGDA

Publishing

Online Maps
ArcGIS Server
Uwbgmaps.cfr.washington.edu

ArcGIS Server with Web Adapter

Geodatabase REST API Services

IIS 7 HTML
And javascript

Dojo framework
With ESRI objects

ArcGIS Server

Uwbgmaps.cfr.washington.edu
ESRI provides themed css files online

The Dojo framework and ESRI objects are then in one online file

Then Dojo methods are used in the JavaScript to load and manipulate map services from the ArcGIS Server Rest API

The Dijit library of Dojo is used for some UI elements
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