

Database Design Draft of Relational Tables Structure

Photo

Photo #
 Filename-origin
 Filename-new
 Web URL link
 Description
 Location #

Time
 Date
 Year-Day
 e.g. Feb 1 = 32
 Leap Year ??
 Time-of-day
 Season
 Late Winter
 Spring
 Summer
 Fall
 Late Fall
 Early Winter

EXIF
 Focal Length
 f-stop
 Exposure
 Aperture

Plant ID#
 Associated Life
 Bird ID#
 Animal ID#
 Associated Plant ID# 1
 Associated Plant ID# 2

Field Notes
 Verification Needed?
 Yes
 No

Location

Location #
 Long
 Lat
 Elevation
 Aspect
 Location Name

Environment
 Ecotype
 Forest
 Meadow
 Garden
 Road Edge
 Path Edge
 Sidewalk Edge
 Field Edge

Maintenance Schedule
 Pruning
 Date
 Mowing
 Date

Associated Phenomena
 Comments

Plant

Plant ID #
 Species ID #
 Leaf Growth
 % Growth - Flower
 Dormant
 Bud Set
 Bud Swell
 Leaf Opening
 Starting to Grow
 Full Leaf
 Fall Colour
 Leaf Fall

Flower Growth
 % Growth - Leaf
 Dormant
 Bud
 Bud Open
 Flower Open
 Full Flower
 Flower Dying
 Dead Flower
 Fruit
 Cone

% Canopy Cover
 Plant Description
 Age
 Height
 Circumference

Secies

Secies ID#
 Names
 Common Name
 Alternate Names
 Latin
 SENCOFEN

Plant Type
 Tree Evergreen
 Tree Deciduous
 Shrub
 Perennial
 Annual
 Bulb
 Tuber

1st Nations
 Seasonal Round
 Assoc Ecosystem
 Uses

Weather

Date
 Temp
 Precip
 Sky
 Cloud
 Wind
 Notes

What I Want From Database?

Which photo has ... ?
 Specific plant species
 Specific location
 Date / Range / Season
 Weather
 Growth Stage

Populate
 Drop-Down Lists
 accuracy
 consistency
 Report
 Photo Gallery

Compare
 Years
 Seasons
 Time Range
 Locations
 Interval between leaf bud/fall

Analyze
 Start Dates
 Date Ranges
 Change

Apply Database To Other Data
 Plants in Different Location
 Birds
 Invasive Species

←from