Inventory and Monitoring Subcommittee

Need for Database

- Desire for region-wide distribution and condition data
- Database with uniform and consistent data
- Currently, distribution and condition data is widely variable
- Better for whitebark, less so for limber
- Necessary to inform CCE-wide restoration strategy
- Other nice features
  - Standing inventory and mapping protocols
  - Activity tracking
  - Case studies

WLIS/High-5 Database

- WLIS
  - Data call
  - Lit review
  - Lived on FS server, limited accessibility
- Morphed to High-5 Database
  - Wanted online accessibility
  - Designed user data-entry form + data dictionary for common formatting
  - All WLIS data was transferred over

High-Elevation Five-Needle Pine Datasheet Builder

Survey & Plot Info

Survey Month

Survey Year

Plot Type

Plots: 1

Five-Needle Pine Species Present
- whitebark
- limber
- RM bristlecone
- GB bristlecone
- foxtail
- SW white

Permanent Plot

Permanent Plot? Yes N

Year Established

Remeasurement? Yes N

Measurement Units

English Metric

I'll manually enter units

Selecting ENGLISH will insert
> SQUARE FT PER ACRE
> TREES PER ACRE, and
> FEET
for BA, stem density, and elevation, respectively.

Selecting METRIC will insert:
> SQUARE METERS PER HECTARE
> TREES PER HECTARE, and
> METERS

If you want to manually enter measurement units for each data element during data-entry, select:
"I'll manually enter units."

Data Source

What data were collected

Tree Density
- Density of 5-needle pines
- % component of other species

WPBR & Mortality
- WPBR Presence
- WPBR Mortality
- Mortality: All causes

Physiography
- All
- Elevation
- Aspect
- Slope

Aspect as...
- Ordinal
- Azimuth

Slope Unit
- Percent
- Degrees
- Leave Blank

Other
- Regeneration / Definition
- Other Injurious Agents
- Fuels Data

Geography

USA CAN

State / Province

County

Admin. Unit

Coordinate Source

Coordinate Type
- Lat-Long: Decimal Deg.
- Lat-Long: D M S
- UTM
- N/A

Distorte

UTM Zone

Datum

use for all plots*

Hide Form

Close Form

After completing header data, select the "Create Datasheet" button below.

To clear this form, click the "Clear Form" button.

Comments

Submitter

Provide a name for your new worksheet.

Create Datasheet

Sheet9

Clear Form

* Coordinates are typically entered at the plot-level (i.e. on the data sheet where plot-level data are recorded). For cases where plot-specific coordinates are not available, and a single set of coordinates is being used to represent a multi-plot study area, the coordinates entered here will be repeated for all plot records in the worksheet.

Database Field Name	Field Description	Data Type	Field Size	Format	Valid Field Values or lookup source	Entry Required in Database
Line_Index	Unique Identifier	number		small integer	Integer>0 - Auto numbered	required
Source	User generated citation using recommended format	text	500 characters	variable character	Recommended format from tbl_Source_Format	required
SurveyMonth	Month survey occurred	number, text	2 characters	small integer	Numeric or alphabetic description of month	
SurveyYear	Year survey occurred	number		small integer	Year	required
PermPlot	Identified as a permanent plot with remeasurements expected	text	1 character	variable character	Y, N or Blank	
PermPlotYearEstd	Year permanent plot established	number		small integer	Numeric Year, Blank or NE	
PermPlotRemeasure	Revisit of established permanent plot	text	1 character	variable character	Y, N or NE	
PlotID	Specific user supplied identifier for plot	text	10 characters	variable character	Alphabetic or numeric	
PlotType	Type of plot	text	3 characters	variable character	PlotType - Fixed (Fix.), Variable (Var.), Observational (Obs.) or Blank	
Elevation	Elevation stored as feet above sea level (converted by program from metric)	number		small integer	Numeric estimate of elevation above sea level in feet (converted from metric)	
Elev_Unit	Measurement unit of elevation	text	2 characters	variable character	Ft or M	
Slope	Slope is reported as %	number		small integer	Integer (0 to 100) or NE	
Slope_Unit	Measurement unit of slope	text	3 characters	variable character	Percent or Degrees	
Aspect	Direction plot faces by major compass unit	text	2 characters	small integer	N, NE, E, SE, S, SW, W, NW or Blank	
Azimuth	Direction plot faces by degrees	number	3 characters	small integer	Integer 0 to 360	
FuelsData_Y_N	Identification if data on fuels was collected	text	3 characters	variable character	Y or N	
PIAL	Presence of Whitebark pine	text	1 character	variable character	From tbl_FNP_Species	required
PIFL2	Presence of Limber pine	text	1 character	variable character	From tbl_FNP_Species	required
PIAR	Presence of Southwestern white pine	text	1 character	variable character	From tbl_FNP_Species	required
PILO	Presence of Great Basin bristlecone pine	text	1 character	variable character	From tbl_FNP_Species	required
PIBA	Presence of Foxtail pine	text	1 character	variable character	From tbl_FNP_Species	required
PIST3	Presence of Rocky Mountain bristlecone pine	text	1 character	variable character	From tbl_FNP_Species	required
Nation	Country where plot is located	text	6 characters	variable character	US or CA	

Outstanding Issues

- Need for a data steward
  - Solicit for data at regular intervals
  - Ensure database quality
  - Answer questions and help “advertise” the database
  - Evolve the database over time as needs arise
- Need for a server where data can be stored
  - ScienceBase (USGS semi-public database)
- Desire for ArcGIS online capability?