

# Survey 123: CDMS Driven Field Data Collection

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# CDMS and Survey 123 for SGS and Carcass Surveys

- ▶ CDMS driven data validation
  - ▶ Built in to decrease user error
  - ▶ Standardized values and data entry
  - ▶ Ease of import- ArcGIS portal to CDMS
- ▶ Cascading selects
  - ▶ LOCATIONS
- ▶ Conditional Fields
  - ▶ PIT Tag Readers
  - ▶ Radio Tags and Additional Tags and Marks

# Data Validation

- ▶ Standardizing SGS Surveys across Research Division Projects
- ▶ Data Validation-CDMS Metadata

- ▶ Data Validation (built in Survey 123 template)
  - ▶ Required, Required Message, Default, Relevant, and Calculation options
  - ▶ Controlling input for data integrity
    - ▶ Easier QA/QC-less man hours spent at the computer post-survey season!

Survey Method	
Description	Primary mode of travel used for survey.
DbColumnName	SurveyMethod
Units	
Validation	Required
Data Type	string
Field Control Type	select
Possible Values	["Boat","Ground","Ground & Snorkel","Snorkel","Raft","Fixed Wing","Helicopter","Unmanned Aerial Vehicle","Vehicle","NC"]
Field Role	
Source	
Instrument	
Order Index	9

Target Species	
Description	Primary species for which the survey is intended
DbColumnName	TargetSpecies
Units	
Validation	Required
Data Type	string
Field Control Type	select
Possible Values	["BT","F_CHN","S_CHN","CHUM","COHO","SOCK","S_STH"]
Field Role	
Source	
Instrument	
Order Index	1

TargetSpecies	S_STH	Summer Steelhead
TargetSpecies	S_CHN	Spring/Summer Chinook
TargetSpecies	F_CHN	Fall Chinook
SurveyMethod	Boat	Boat
SurveyMethod	Ground	Ground
SurveyMethod	Boat & Snorkel	Boat & Snorkel
SurveyMethod	Snorkel	Snorkel
SurveyMethod	Raft	Raft
SurveyMethod	Fixed Wing	Fixed Wing
SurveyMethod	Helicopter	Helicopter
SurveyMethod	Unmanned Aerial V	Unmanned Aerial Vehicle
SurveyMethod	NC	NC

▼ Survey Info

Project: \*

Target Species \*

Primary species for which the survey is intended.

Pass \*

Number of times transect ha

Start Survey

Common Name or GPS WPT

End Survey

Common Name or GPS WPT used to define ending poi

! Enter a Survey Date

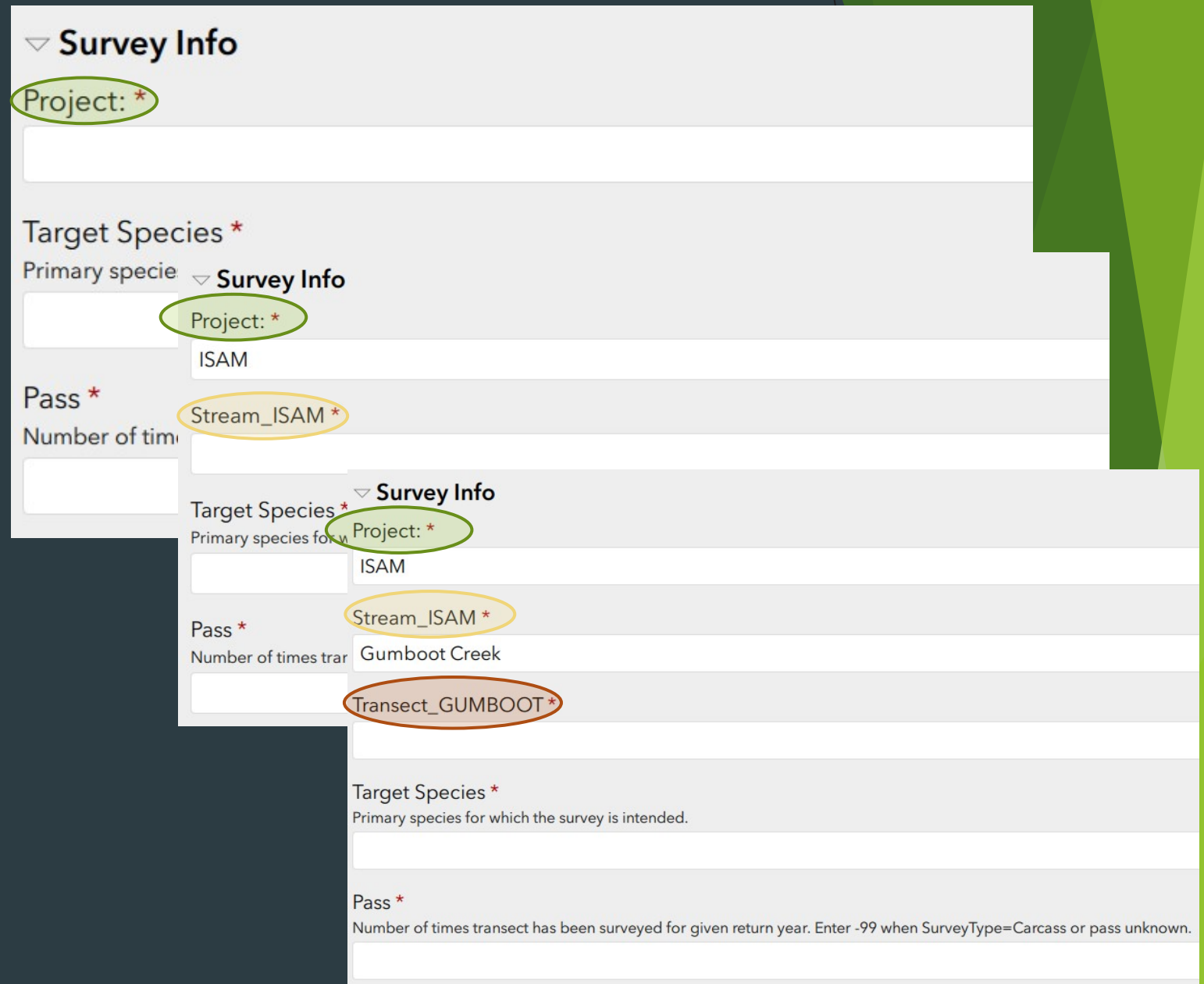
Survey Date \*

📅 Date

Device Tag Number \*

# Cascading Values

- ▶ Locations-LOTS!
  - ▶ Impossible to load all locations into a manageable list without these cascading fields
- ▶ Project → Streams → transects
- ▶ This allows for the stored value to be compatible with accepted CDMS values
  - ▶ Locations table fed choices lists
- ▶ Happier field technicians!



▼ Survey Info

Project: \*

Target Species \*

Primary specie ▼ Survey Info

Project: \*

ISAM

Pass \*

Stream\_ISAM \*

Number of times transect has been surveyed for given return year. Enter -99 when SurveyType=Carcass or pass unknown.

▼ Survey Info

Target Species \*

Primary species for which the survey is intended.

Project: \*

ISAM

Pass \*

Stream\_ISAM \*

Number of times transect has been surveyed for given return year. Enter -99 when SurveyType=Carcass or pass unknown.

Gumboot Creek

Transect\_GUMBOOT \*

Target Species \*

Primary species for which the survey is intended.

Pass \*

Number of times transect has been surveyed for given return year. Enter -99 when SurveyType=Carcass or pass unknown.

# Conditional Fields

- ▶ SGS Standardization (again) → concerning Carcass data fields

- ▶ Radio Tags-not extremely common but will need to be accounted for if encountered

- ▶ Conditional fields allow hidden options

- ▶ Additional Tags and Marks

- ▶ Comprehensive list-not all are relevant to all areas we conduct surveys
- ▶ Cascades allow for all types of possible tags and marks to be entered-need be basis-otherwise, out of sight! 😊

The image shows a screenshot of a data entry form with several sections. The top section is titled 'PIT Reader Type \*' and contains two radio buttons: 'HPR Plus' (selected) and 'HPR Lite'. Below this is a 'PIT Scanned \*' section with radio buttons for 'Yes', 'No', and 'Unknown'. The 'PIT Code \*' section has a text input field with 'NA' entered. The 'Radio Tag' section has a radio button for 'Yes' and a text input field. The 'Additional Tags/Marks' section has a text input field. Below the main form, there are two columns of detailed field descriptions. The left column lists 'Radio Tag' (Yes/No), 'Vendor' (Transmitter vendor name), 'Serial Number' (Transmitter serial number), 'Frequency' (Transmitter frequency), 'Channel' (Transmitter channel), and 'Code' (Transmitter code). The right column lists 'Additional Tags/Marks' (Yes/No), 'Tags-Floy' (Indicates presence of a Floy tag), 'Tags-Jaw' (Indicates presence of a Jaw tag), 'Tags-Peterson Disk' (Indicates presence of a Peterson Disk tag), 'Tags-Spaghetti' (Indicates presence of a Spaghetti tag), and 'Tags-Staple' (Indicates presence of a staple(s) on operculum).

Questions?