

Fish Tagging Forum
Draft Compilation of Tagging Data Collection and Management
2012_11_12 v0

Data Management is one topic specified in our charter that we have heard a few things about as part of individual presentations, but we haven't discussed comprehensively as a group. This includes the collection of tag/mark related data, management of data using database tools, and the regional accessibility of data. To facilitate future discussion of data management related recommendations, we have drafted two pages of synthesis diagrams to organize data collection and management information in a manner that is consistent with our Charter's requirement to assess life-cycle tracking. The diagrams are populated with example content for:

- a) data collection and management information across the life-cycle; and
- b) flow of data from field efforts to regionally accessible databases. Note that this diagram does not have a flow of data associated with Adipose Clips at this point. Based on your input we will put one together for the next iteration.

As with other synthesis tools, the ultimate work product needs to reflect the knowledge of the Forum participants. Your input on additions, deletions, and modifications is critical. Both diagrams have example, or partial content that as placeholders for "fill in the blank" from you. It is understood that the data management system associated with F&W program is very complex and integrated. As such, the Forum will be challenged to capture and communicate the information in a somewhat simplified, but representative manner necessary to discriminate between tagging technologies. These tools are designed to facilitate this process.

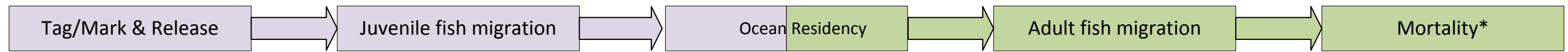
Below are definitions of the terms we used in the diagrams – we can adjust these also based on your input:

- 1) Tag/mark assignment: responsible party for distributing code, frequency, pattern, or otherwise unique identification for tag/mark assignment (Who)
- 2) Tag/mark coordinator(s): responsible party for coordinating and facilitating the implementation of tagging techniques and handling protocol to ensure consistent high quality marking (Who)
- 3) Mark application: mechanism for applying technology mark (automated, manual)
- 4) Data entry: mechanism for uploading data into respective mark/tag database (automatic, manual)
- 5) Collection Locations: where within the CRB is the technology able to give us information (mainstem or tributary)
- 6) Data collection: mechanism for collecting life cycle stage data for the given tagging technology (automated, manual, visual)
- 7) Sample collection: mechanism for collecting life cycle stage data for the given marking technology (automated, manual)
- 8) Lab processing: responsible party for processing collected sample and yielding data for life cycle stage (Who)

Your time dedicated to completing these synthesis tools is much appreciated especially as we approach the busy holiday season. Please collaborate within or across your organizations as necessary to provide accurate and timely input. It would be great to get your input and/or questions and recommendations related to the attached diagram by **November 27**. Please call or email if you want to discuss your thoughts directly. kkytola@sapereconsulting.com or 509.524.2343.

Data Collection and Management Associated with Fish Tagging/Marking Technologies

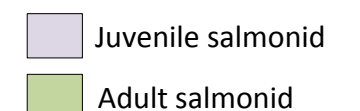
DRAFT: Example content pending input from Fish Tagging Forum subject matter experts



Adipose Fin Clip	<i>Mark assignment:</i> (WHO?) <i>Mark coordinator(s):</i> (WHO?) <i>Mark application:</i> automated <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> visual/manual entry <i>Data entry:</i> manual upload	<i>Data collection:</i> visual/manual entry <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> visual/manual entry <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> visual/manual entry <i>Data entry:</i> manual upload
Acoustic	<i>Tag assignment:</i> NOAA, USACE, PUD <i>Tag coordinator(s):</i> NOAA, USACE, PUD <i>Tag application:</i> manual <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated <i>Data entry:</i> manual upload <i>Data processing:</i> UW (JSATS), POST database, (PUDs?)	<i>Data collection:</i> automated <i>Data entry:</i> manual upload <i>Data processing:</i> UW (JSATS), POST database, (PUDs?)	N/A	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated <i>Data entry:</i> manual upload <i>Data processing:</i> UW (JSATS), POST database, (PUDs?)
Genetic	<i>Mark assignment:</i> Genetic Analysis of Pacific Salmon (GAPS) <i>Mark coordinator(s):</i> GAPS database exchange <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Sample collection:</i> manual <i>Data entry:</i> manual upload <i>Lab processing:</i> (WHO?)	<i>Sample collection:</i> manual <i>Data entry:</i> manual upload <i>Lab processing:</i> (WHO?)	<i>Collection locations:</i> mainstem, tributary <i>Sample collection:</i> manual <i>Data entry:</i> manual upload <i>Lab processing:</i> (WHO?)	<i>Collection locations:</i> mainstem, tributary <i>Sample collection:</i> manual <i>Data entry:</i> manual upload <i>Lab processing:</i> (WHO?)
CWT	<i>Tag assignment:</i> Regional Committee on Marking and Tagging (Mark Committee) <i>Tag coordinator(s):</i> Mark Committee <i>Tag application:</i> automated, manual <i>Data entry:</i> manual upload	N/A	N/A	N/A	<i>Collection locations:</i> mainstem, tributary <i>Sample collection:</i> manual <i>Lab processing:</i> CWT processing lab <i>Data entry:</i> manual upload
Otolith	<i>Mark assignment:</i> (WHO?) <i>Mark coordinator(s):</i> The North Pacific Anadromous Fish Commission (NPAFC) <i>Mark application:</i> automated <i>Data entry:</i> manual upload	N/A	N/A	N/A	<i>Collection locations:</i> tributary <i>Sample collection:</i> manual <i>Lab processing:</i> (WHO?) <i>Data entry:</i> manual upload
PIT	<i>Tag assignment:</i> PIT Tag Coordinator (Kennewick field office) <i>Tag coordinator(s):</i> PTSC <i>Tag application:</i> automated & manual <i>Data entry:</i> automatic or manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated & manual <i>Data entry:</i> automatic or manual upload	<i>Data collection:</i> automated & manual <i>Data entry:</i> automatic or manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated & manual <i>Data entry:</i> automatic or manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated & manual <i>Data entry:</i> automatic or manual upload
Radio	<i>Tag assignment:</i> (WHO?) <i>Tag coordinator(s):</i> small group of experts/vendors <i>Tag application:</i> manual <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated <i>Data entry:</i> manual upload	N/A	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated <i>Data entry:</i> manual upload	<i>Collection locations:</i> mainstem, tributary <i>Data collection:</i> automated <i>Data entry:</i> manual upload

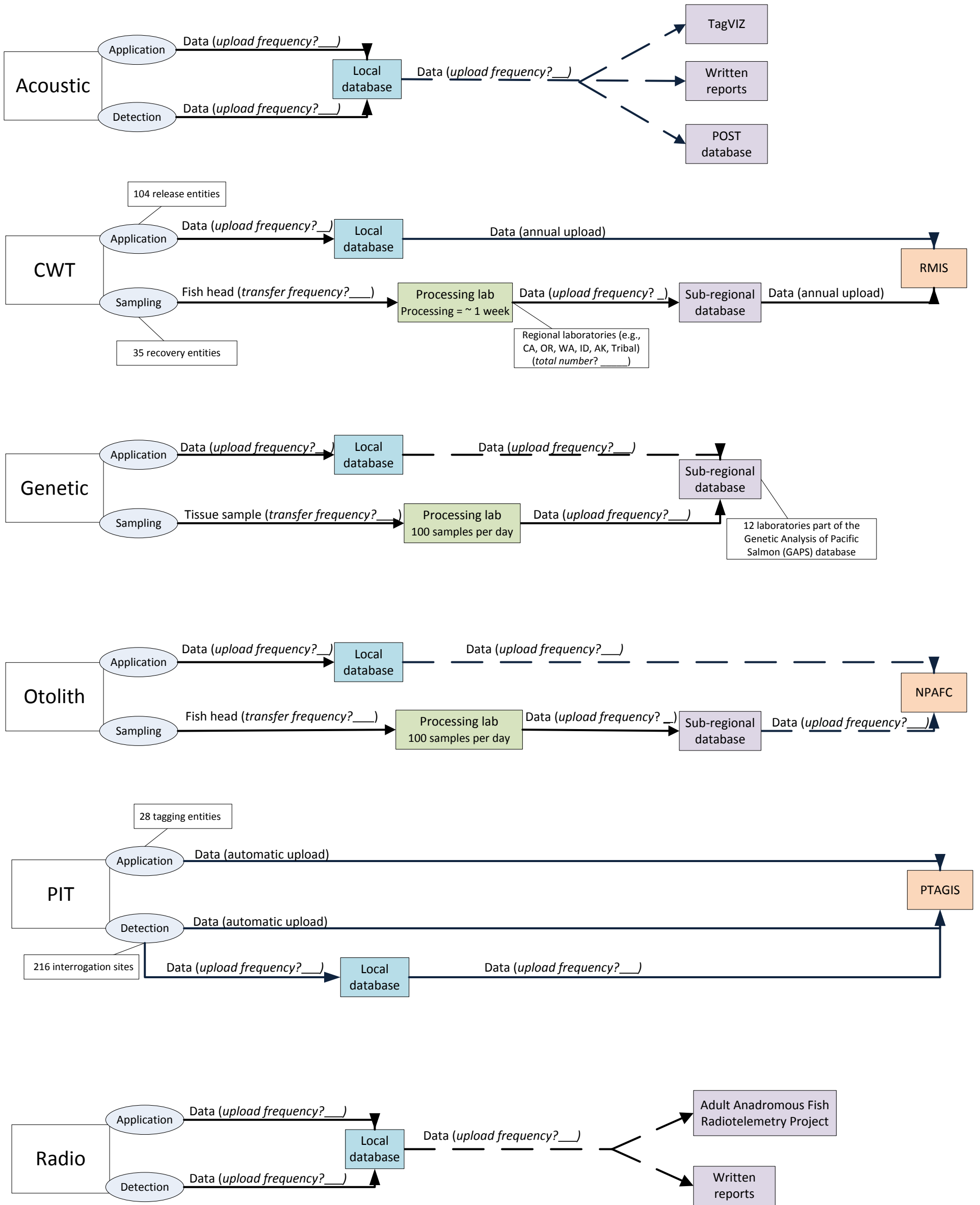
*Fish mortality data may be collected at any stage of the fish life cycle from harvest, recovered carcasses, and predators

NOTE: Italicized text indicates data collected outside Fish Tagging Forum materials



Data Flow Chart Associated with Fish Tagging/Marking Technologies

DRAFT: Content pending input from Fish Tagging Forum subject matter experts



NOTES:

Text in *italics* followed by a blank indicates an information gap
 ----- Indicates voluntary upload

Sub-regional database *Sub-regional Database:* These are projects or work elements within projects that contribute to the development, maintenance, and/or management of databases that are designed to store data collected in the field from one or more organizations (e.g., Idaho Fish and Wildlife Information System, CRITFC's Tribal Data Network).

Local database *Local Database:* An entity's information repository that occurs within an individual project and collects data for a specific project objective.

Regional database *Regional Database:* What we generally refer to as regional databases are designed to manage, store, and or synthesize data and information for specific users and the public. These databases incorporate data from multiple sources and are not restricted to an individual project's field data or to organizing data collected by an agency or tribe.

Processing lab *Processing Lab:* The processing lab is responsible for further analysis of fish sample. Processing of the fish sample in the laboratory yields data required to track fish.