

November Techinar 12/17/2015

Attendees: Kirstin Holfelder (CNHP), Amy Greenwell (CNHP), Dave Speas (BOR), Andy Treble (CPW), Scott Durst (FWS), Tildon Jones (FWS), Travis Francis (FWS), Koreen Zolasko (LFL)

Key: Question, Action Item

Review of PowerPoint Presentation (see 2015_12_17 STReAMS Monthly Webinar Presentation.pptx)

- User experience: Dave was able to run numbers for some reports. It worked pretty fast. Tildon has the same experience. Any and all feedback is welcome.
- A new release will include an inactive user box, linked source files, error checking for duplicate hydro areas, and query fixes. This is forthcoming.
- **Question: Have invitations been sent out to the committee members to register on STReAMS?** The group does not think this has happened.
- Specific mark/recapture studies need to have effort. People are recording it but it has never gone into the database for endangered fish, only non-native fish.
- The group reviewed the non-native database from Travis and discussed effort data in more detail. In terms of effort, the non-native database has start time and end time for net sets, gear type, electrofishing effort (number of seconds), net set hours, different types of boats, => there can be multiple fish tied to these records, etc. These attributes connect to another table with the actual fish caught. **Question (from CNHP): What is Pass?** Biologists are tasked with doing a certain number of “passes” on a project.
- An electrofishing event is a sampling event but it can also be done by a day. Biologists need to tally up how many fish were caught, and divide it by hour. (fish/hr) (fish/net might be all we can get on old data). Dave hasn't requested effort data yet from PIs.
- **Question: Do we need to artificially generate sampling events to store effort data?** Would date and river mile, and perhaps time, be the right criteria to use to generate sampling events? It might even be more specific than this. The group suggested picking a study to review and we can see what the data look like. **Action Item: Travis will send out the Black Rocks project to the group.** The non-native and endangered fish surveys overlap. Endangered fish caught on non-native surveys are in streams. Transition towards collecting effort data for endangered fish should be an easy request and easily accommodated in the future.
- Within sampling events are days, then times. Data need to get entered per sample. This is the most logical way to get the data entered. It looks like there might be more layers to this, intermediate tables, and we should look at the terminology we are using.
- CPW tracks overall survey effort, but then has line items for details on specific gear types. If you don't have gear data at the sample level, then you just fill out the overall survey effort.
- Database costs into the future for Maintenance and Enhancements will be covered 2/3 by UC and 1/3 by SJ. The new database manager salary will be covered by UC, but Scott and Nate will continue to participate in that role for SJ.

- Question: (Feature Request) When you get a list of tags, is there a way to get a pop up with a brief summary of the data so you don't have to navigate through all of the pages?** Basically, users want a quick look for exceptional events (ex. number of times a tag has been detected, or other sub heading details). This is definitely possible, but will likely get put on the back burner until major features, like the batch upload tools, are developed. **Action Item: CNHP will enter this into our developer tracking database so the idea is not forgotten.** We can revisit this item at the end of year 2 or early year 3.
- Question: How do we track portable antennas?** Maybe this is just another gear type? This is more like a net, not a PIA Location. These data will go to Travis this year. Andy handles it this way in his database at CPW as well.
- Explanation of Registration: If folks are already in the system because they have contributed data or we have identified them as a user in the system, all they need to do is reset their password to access STReaMS. Users not in the system will have to officially register on the website and identify their organization. They will be assigned the lowest level of permission on the site, currently the "Researcher" level. If their organization has a Data Administrator, this person will receive an email notification that a new user in their organization has joined STReaMS. This is a courtesy heads-up, but the Data Administrator may also need to tweak permission levels for the new user to give him/her a higher level of access. If a new user registers with an organization that does not have a Data Administrator (an unmanaged organization), all Database Managers will receive a notification email that this user has registered. Again, this is just a heads-up, but permission levels might need to be tweaked.
- Question: Once we have identified all appropriate users, should we lock down registration until a new role, with less privileges, is developed?** Yes, this is a good idea since we can't prevent people from seeing all of the data with the three roles we currently have in place. We will work on developing the 4th role this year. Once it is activated, we can open registration. In the meantime, if there are new users that need to be part of the system, please email CNHP and we will get them in the system.
- There are a few new tweaks we have made to STReaMS. These changes will be online after a mini-release in December.
- PIA data uploads are an ongoing process. CNHP has complete datasets in STReaMS for: Colorado River – Price Stubb, Green River Canal (Flume and Below Siphon), and White River Bonanza Bridge. Peter McKinnon is organizing his files and sending us complete datasets for the other PIAs. Right now, Price River (Woodside and Confluence) and McElmo Creek are in the pipeline. We should have these formatted and imported to STReaMS by early December. We will work on batch uploads as we receive data. In PIA Locations, at the array level, there are import dates on the website so you know when the data were imported for any given PIA.
- Question: CPW has antenna data. When should it be delivered to CNHP?** Data can be sent to us at any time. We will need to review the particulars with Andy Treble and discuss what duplicates might appear in the database and how we can search on those to filter them out. Andy also has his own database at CPW for managing PIT Tags. It would be a good idea for him to see the backend of STReaMS. **Action Item: Meet with Andy at CNHP offices to show him the backend SQL Server database, and discuss the antenna data, 3 Species data, and potential for duplicates.**

- CNHP originally proposed quarterly database releases in Year 2, but after reviewing the minor tweaks we need and bugs that have been identified, we think it is better to do monthly releases, at least for the first 6 months of the year. This gives us less to test at each release to ensure the system is remaining stable, and gives you a quicker response time to address your database needs. We will revisit this later in the year, and extend release dates if needed. At each release, we will send out an email announcement and post release notes on the website.
- Priorities in Year 2 have been identified as follows:
 - PIT Distributions – data are in the system, but building the webpage will be our first priority
 - Batch upload capabilities – this is really important to ensure the website is being used as intended and to get the burden off of Travis
 - Fourth, “public” role – a draft of this role is available and we will work on finalizing it at upcoming Techinars
 - QA/QC features for Database Managers and Data Administrators
 - More online help
 - Query Builder for customized downloads – this became the lowest priority since the ability to download everything is available right now
- The programs need to run queries where the answer is known, to make sure that all of the data are in STReaMS. This will be an ongoing housekeeping task.
- For the query builder, it will be really helpful to know what queries Travis has to complete for people right now. **Action Item: Travis will keep track of query requests this year in a spreadsheet so CNHP has samples of common queries that need to be developed.**
- Historically, sampling effort has not been collated into the master database for rare species, although it is probably in the annual or final reports to some degree. Examples would be: *a trammel net was used on this date from this time to this time. XXX turned on at this time and stopped at this time on this date.* This might be harder to glean from older data, but everything from 2002 on should have this information even though it is not in the database. PIs will need to be contacted to provide this information. This could be a heavy lift. CNHP has student helpers available if there is any data entry tasks that can be completed by an intern or work study.
- Dave stresses the need for researchers to be able to calculate catch per unit effort (# of fish caught per sampling event) and the importance of getting this into STReaMS as soon as possible. We will need to make sure that these data are delivered and uploaded with projects from here on out.
- The Sampling Events page on STReaMS need further development to capture effort data. Capture effort collected in the non-native fish data files is a good place to start to identify additional fields we need in the database. **Action Item: Travis will send CNHP non-native fish data and CNHP will use this model to propose new fields to add to the Sampling Events table in STReaMS.** We will display a mockup of the redesign at an upcoming Techinar to ensure we have all fields necessary to run the calculations needed by the programs. This will be a top priority.
- We reviewed a draft PowerPoint of a fourth role. The draft proposes to gray out all features except Browse Fish, Browse Encounters, Studies, Downloads, and Help/Documentation. The fish, encounters and studies sections will show limited attributes and downloads will be limited to these attributes. Attributes removed from the site will include anything of spatial detail. So

far the proposed fields to remove include: river miles, coordinates, associated antennas, and comments fields (since these can't be controlled). This new role will have read only permission.

- The annual researchers meeting is coming up in January. **Action Item: CNHP needs to send an abstract to Scott Durst to present STReaMS at the meeting.**

Thanks Everyone!

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