

CRITFC Accomplishments and Plans

ITMD Annual Workshop

April 16 - 17, 2019

Major Project Foci

- ▶ Successful deployment of CDMS to the tribes and CRITFC
- ▶ Modernization of the ITMD “data center”
- ▶ Support several other Accords projects
- ▶ ISRP Review
- ▶ Replanning of the BPA and EPA projects

Deployment of CDMS to the tribes and CRITFC

- ▶ As of last September:
 - ▶ CDMS installed at Nez Perce, Warm Springs, and CRITFC
 - ▶ Personnel at all three locations were trained in its use
- ▶ CRITFC now serving as Help Desk
- ▶ CRITFC has uploaded 12 million water quality records

Modernization of the ITMD “data center”

- ▶ Moved to new hardware platforms and retired old servers
- ▶ Upgraded from Windows 2008 to Windows 2016
- ▶ Upgraded to SQL Server 2016
- ▶ Created split Dev and Prod environments
- ▶ Multiple actions to improve security

Supported several other Accords projects

- ▶ Supported Nez Perce and Zone 6 harvests
- ▶ Developed Anoto pen application for Warm Spring screwtrap
- ▶ Developed specifications for new Kelt data capture application
 - ▶ RTR developed the system on contract
 - ▶ Uses tablets in the field (in Otter boxes)
 - ▶ Simplifies data entry with menus, radio buttons, etc.
 - ▶ Expected to reduce data errors
 - ▶ Good review so far from users

Samples Form

| | | | | | | | | |
|-------------------|------------|----------|------------|----------|-------|---------|--------|----------------------------|
| Process Date | Spawn Year | PIT-Tag: | PIT Status | | | Origin | | Collection Date (Kelts-in) |
| 04/15/19 10:55:43 | 2018 | | DUP TAG | Existing | RETAG | DNFHLAD | LGDJBS | |

Flagged Fish Resolved?

| | | | | | | | | | | |
|--------------|-----------------|----------|---------|----|------|--------|-----------|------|------|------|
| Blood Draw # | Blood Sample ID | Other ID | Ad Clip | | Sex | | Condition | | | |
| | | | Yes | No | Male | Female | Very Good | Good | Fair | Poor |

| | | | | | | |
|------------|-------------|-----------|--------------|-----------|-----------|------------------|
| Length(cm) | Weight (kg) | Fat Meter | Ovary Weight | Treatment | | Other Treatments |
| | | | | Oxytet | Emamectin | |

| | | | | | | | | | | | | | | |
|-------------|-----|-----|-----------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|
| Fish Status | | | Tank From | | | | Fish To | | | | | | | |
| MRT | REL | RET | NPTH1 | NPTH2 | DNFH1 | DNFH2 | DNFH3 | DNFH4 | NPTH1 | NPTH2 | DNFH1 | DNFH2 | DNFH3 | DNFH4 |

Comment

Next Fish

Supported Several Other Accords Projects

- ▶ Optimized genetics computations to significantly reduce run time
- ▶ Reviewed the CIS system and made recommendations on how to move forward to the project team
- ▶ Set up a tools environment for CRITFC genetics researcher
- ▶ Developed software framework for up/downloading data to/from the Amazon cloud

ISRP Review Process

- ▶ This year the ITMD project was due for review by the BPA's ISRP (independent scientific review panel)
- ▶ ISRP members are scientific academics who judge the scientific merit of BPA projects
- ▶ Denise, Tom Iverson, and I created the proposal and submitted it for review in January (all 44 pages of it)
- ▶ In mid-February I presented a series of slides to the panel summarizing the project
 - ▶ Slides well received
 - ▶ One panel member said he believed the project was "underfunded"
- ▶ Received review results earlier this month and we passed muster
- ▶ Have been invited to have a direct conversation with the panel in the near future

Replanning of the BPA and EPA projects

- ▶ And finally, significantly revised both BPA and EPA project budgets in order to fund CDMS activities in the last 12 months
- ▶ It was a whole lot of paperwork

And Next

- ▶ Continue loading data in to CDMS
- ▶ Establish first cut at CDMS metadata standards and develop software to support these
- ▶ Establish ability to upload data into CAX and WQX
- ▶ Test and deploy framework to store CRITFC data offsite in the cloud
- ▶ Plan and execute modernizations of several software systems we support
- ▶ Continue to track technical innovations