Data Management System

**Outline**

* **Page 0**. Login
  + NEW - Create tool to update password (guessing we will need this based on new rules once we go to the cloud)
* **Page 1**. Home - Different regions based on user level.
  + - All
      * Field app download
      * USG Species with No Vial Number – List of fish that need to have a genetics vial number assigned so they can be sent to the labs. Office and Office Admin users can only see their fish. Admin can see all fish.
    - Admin – Not critical
      * Datasheet records for Approval – Links to datasheets that require approval
    - Office user
      * Office Error Log – List of error log records for the office.
      * BAFI datasheets – List of fish where species code = ‘BAFI’ indicating there is a bag of fish that need species id.
    - Office admin
      * Office Error Log – List of error log records for the office.
      * Unchecked Data Sheet Records – Links to datasheets that need to be marked as checked by.
* **Page 27**. Unchecked Datasheet Records– Page to mark Missouri river, fish, and supplemental datasheets as checked by. Links to edit pages. Update – add search effort, telemetry fish, and procedures datasheets. Critical
* **Page 27**. Datasheet Records for Approval – Page to mark Missouri river, fish, and supplemental datasheets as approved. Links to edit pages. Update – add search effort, telemetry fish, and procedures datasheets. Not critical
* **Page 10**. PSPA Data Summaries Not Critical
  + New Submenu – **Page #**. Data Dump. Move existing pages under submenu and create a dropdown to select the datasheet type. Keep filters.
    - **Page 11**. Missouri River Data Sheet. Page to download Missouri River data based on filters. NC
      * Update - Change UniqueID to MR\_ID
    - **Page 12**. Fish Data Sheet. Page to download fish data based on filters.
      * Update – Add ds\_fish.Condition. NC
    - **Page 13**. Supplemental Data Sheet. Page to download supplemental data based on filters.
    - **Page 5**. DS Search. Page to download search effort data. NC
      * Update - Add filters.
      * Update - Change name To Search Effort Data Sheet
    - **Page #** - New. Add page to download telemetry fish
    - **Page #** - New. Add page to download procedures datasheet
  + **Page 15**. Genetic Card Summary. Page to download genetics card data based on filters. Critical
  + **Page 14**. Update - Tables and Figures. ~~Pages 167, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 169, 171, 173, 173.~~ Data summaries for old reporting. Will need to build new summaries. Not Critical
  + **Page #** - New - Telemetry Summaries Critical
    - **Page #** - Priority fish
    - **Page #** - Last location
    - **Page #** - Tag replacement
  + **Page #** - New - Field app summaries Critical
    - Stocked Juveniles
    - Recaptured Pallids
    - Floy Tag LK
* **Page 20**. Critical
  + Find Datasheet by ID. Tool to quickly search for a given datasheet. First select a data sheet type then enter either the table ID or field id or if supplemental is selected for datasheet type you can also search by genetics vial number or pit tag. Search limited to office. Takes user to corresponding data entry page.
    - Update - Need to add search effort, telemetry fish, and procedure datasheet search.
  + Select Year – limits sites list to data year selected.
  + Create New Site Button Links to **Page 21**. Data entry page to create new site. ‘Project’ and ‘Segment’ are limited by field\_office\_segment\_lk. ‘Season’ is limited by season\_gear\_office\_lk. ‘Sample unit type’ is limited by ‘Project’. ‘Bend’ is limited by segment in bend\_river\_mile\_lk.
    - Update the site creation to not use **Page 21** and instead change the sites list report to a dynamic table that you can add rows to. Use all of the rules as described above.
  + Sites list filter.
  + Sites list. Displays sites based on office user. Blue highlights on ‘Sample Unit’ indicate Missouri river data sheets exist for that site. ‘Sample Unit’ links to **Page 22**.
    - Update - Remove ‘Sample Unit’ link. Add column ‘MR’ with count of ds\_moriver records for that site and link to **Page 22**. Add column ‘SE’ with count of ds\_search records and link to new data entry page for Search Effort Data Sheets list.
* **Page 22**. Missouri River Data Sheets List Critical
  + Display site info.
  + Create Button
  + Missouri River Data Sheet list
    - Fish Data Sheet column. Link to Fish Data Sheet **Page 24**. Link is highlighted when fish exist and gives a count of the number of fish records associated with that Missouri River Data Sheet (ds\_moriver.MR\_ID).
    - Supplemental Data Sheet column. Link to Supplemental Data Sheets list **Page 26**. Link highlighted when supplemental records exist and gives a count of the number of records associated with that Missouri river Data Sheet (DS\_moriver.MR\_ID).
    - MR\_ID column. Link to the Missouri River Data Sheet data entry **Page 23**.
    - Checked? column linked to **Page 27**. ‘Yes’ if ds\_moriver.checkby is not null, ‘No’ of ds\_moriver.checkby is null. Link active for admin users and only active for Office Admin user if ds\_moriver.approved is not null.
    - Approved column linked to **Page 27**. Unapproved if ds\_moriver.approved is null. ‘Approved’ if ds\_moriver.approved is not null. Link only active for Admin user when ds\_moriver.check\_by is not null.
* **Page 23**. Missouri River Data Sheets – Edit Data. Critical
  + Display Site Info
  + Check By Approve Region.
    - Check By is active for Admin users and for Office admin users when ds\_moriver.approved is null. Approved is only active for Admin users when ds\_moriver.checkby is not null.
  + Button with link to Fish Data Sheet where ds\_moriver.mr\_id = ds\_fish.mr\_id
  + Submit, cancel, delete, Apply changes buttons
  + Data entry form
    - Validation on page based on project\_id, gear, season…
    - Fields are grayed out when not required but are still editable.
    - Change tracking process writes data to change\_tracking table, if data have changed must enter ‘Edit Comment’ and ‘Edit Initials’
  + Changes to Data Sheet region
    - Lists all of the changes to the datasheet where change\_tracking.pspa\_table = 2 and ds\_moriver.mr\_id = change\_tracking.tbl\_record
* **Page 24**. Fish Data Sheet Critical
  + Display Missouri River ID (MR\_ID - ######)
  + Display Missouri River Field ID (MR\_FID - #########-########-###)
  + Display Site Info
  + Check By Approve Region.
    - Check By is active Admin users and for Office admin users when ds\_fish.approved is null. Approved is only active for Admin users when ds\_fish.checkby is not null.
  + Button with link to Supplemental Data Sheets where ds\_fish.f\_id = ds\_supplemental.f\_id
  + Button with link to Missouri River Data Sheet where ds\_moriver.mr\_id = ds\_fish.mr\_id
  + Submit, cancel, delete, Apply changes buttons
    - Condition is calculated. Different formula depending on species.
  + Data Entry form
    - Validation on page based on species
    - Fields are grayed out when not required
    - Update – Remove ‘KN’ and ‘WR’
  + Add Row button – adds a new row
  + Copy Last row button – copies ‘panel/hook’, species, and count from previous record.
  + Changes to Data Sheet region
    - Lists all of the changes to the datasheet where change\_tracking.pspa\_table = 3 and ds\_fish.f\_id = change\_tracking.tbl\_record
* **Page 29**. Supplemental Datasheet Critical
  + Display Missouri River ID (MR\_ID - ######)
  + Display Missouri River Field ID (MR\_FID - #########-########-###)
  + Display Site Info
  + Checked By Approve Region.
    - Check By is active Admin and for Office admin users when ds\_supplemental.approved is null. Approved is only active for Admin users when ds\_supplemental.checkby is not null.
  + Update – Add buttons to go back to Supplemental list (**Page 26**), Fish (**Page 24**) and Missouri River (**Page 23**).
  + Data Entry Form
  + Changes to Data Sheet region
    - Lists all of the changes to the datasheet where change\_tracking.pspa\_table = 4 and ds\_supplemental.s\_id = change\_tracking.tbl\_record
* **Page #**. New - Search Effort Data List Critical
  + Display site info.
  + Create Button
  + Search Effort Data list
    - Telemetry Fish Data column. Link to Telemetry Fish Data **Page #**. Link is highlighted when fish exist and gives a count of the number of telemetry\_fish records associated with that Search Effort Data Sheet (search\_effort.SE\_ID).
    - Procedure Data Sheet column. Link to Procedures Data Sheets list **Page #**. Link highlighted when Procedure records exist and gives a count of the number of records associated with that Search Effort Data Sheet (DS\_search.SE\_ID).
    - SE\_ID column. Link to the Search Effort Data Sheet data entry **Page #**.
    - Checked? column linked to **Page 27**. ‘Yes’ if ds\_search.checkby is not null, ‘No’ if ds\_search.checkby is null. Link active for admin users and only active for Office Admin user if ds\_search.approved is not null.
    - Approved column linked to **Page 27**. Unapproved if ds\_search.approved is null. ‘Approved’ if ds\_search.approved is not null. Link only active for Admin user when ds\_search.check\_by is not null.
    - Additional columns – SE\_ID, SE\_FID, Date, Recorder, Checked By
* New – Search Effort Data Sheet Critical
  + Build new page
* New – Telemetry Fish Data Sheet Critical
  + Build new page
* New – Procedures Data Sheet Critical
* **Page 2** – Data Upload Critical
  + Update - Find a more streamlined way to load data
  + Update – Update geometry on ds\_moriver, ds\_search, and ds\_telemetry\_fish on upload
  + New - Add upload for Procedures data sheet
* **Page 50** – Map – Add a map. Not Critical
* **Page 30** – PSPA Administration Home page Not Critical
  + **Page 31 –** Tool to upload files to the database
  + **Page 60 –** Tool with canned queries to run. Used for finding errors in the data.
    - Update – Add more queries for pitrn, telemetry data, etc
  + **Page 62** – Tool to set approved on multiple records at once.
    - Update – Add search, telemetry fish, and procedure
  + **Page 63** – Tool to set checkby on multiple records at once.
    - Update – Add search, telemetry fish, and procedure

**Ensure consistency across the site**

Replace the word Data Sheet or Datasheets with Data

Ensure that header info such as Site info on all pages is displayed the same.

Any time an ID is references use the following

Missouri River ID (MR\_ID)

Missouri River Field ID (MR\_FID)

Fish ID (F\_ID)

Fish Field ID (F\_FID)

Supplemental ID (S\_ID)

Supplemental Field ID (S\_FID)

Search Effort ID (SE\_ID)

Search Effort Field ID (SE\_FID)

Telemetry Fish ID (TF\_ID)

Telemetry Fish Field ID (TF\_FID)

Procedure ID (P\_ID)

Procedure Field ID (P\_FID)

**Database cleanup**

- Add checkby and approved to DS\_Search, DS\_telemetry\_fish, and ds\_procedure.

Delete any sites that don’t have any associated DS\_moriver records or ds\_search records.

Add sequences, triggers, constraints, indexes where needed.

Ensure fields are named the same across tables. For example, b\_segment in Bend\_river\_mile\_lk is the same as segment\_id in Segments\_lk but they should both be Segments\_lk. If changes are made will need to find everywhere that column is referenced and update the column name.