RMIS Web Site User Manual

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Section 1. Introduction

This manual is intended for users of the Regional Mark Information System (RMIS) Web site operated by the Pacific States Marine Fisheries Commission (PSMFC).

Definitions

The "PSC Format V4.0 Specification" document contains a list of definitions that are used throughout the Regional Mark Information System (RMIS). Please read that document and learn the various definitions so that you can more effectively use the RMIS Web site and analyze your data more decisively.

The following terms are used throughout this manual and are described here for reference.

Browser Delivery: An alternate method for delivery of report output. Suitable for small result sets and reports that run quickly.

CE: The Catch & Effort database. Contains the Catch & Effort and Location data defined in the "PSC Format V4.0 Specification".

CSV Report: A report in comma-separated-value (CSV) format. The first record of a CSV report contains comma-separated field names (example: record_code,format_version,submission_date,reporting_agency), and all subsequent records hold comma-separated data (example: "T","4.0","20021202","CDFO"). CSV report files can be imported into many popular personal computer database and spreadsheet programs.

CSV/HTM Data Field Chooser: A window that allows you to choose which data fields to include in your CSV or HTM report by clicking on PSC Common Names as described in the "PSC Format V4.0 Specification".

CWT: The Coded Wire Tag database. Contains the Release, Recovery, Catch/Sample, and Location data defined in the "PSC Format V4.0 Specification".

Database: A collection of related information and their definitions.

Email Delivery: The default method for delivery of report output. Preferable for large result sets that take a long time to run or that produce large amounts of output.

HTM Report: A report in Hyper-Text Markup Language (HTML) format. HTM reports can be displayed as tables in a Web browser and can be imported into many popular personal computer database and spreadsheet programs.

Key Field: A field on a Recovery Query Form that corresponds to an indexed column on the recovery table in the CWT database. Every recovery query must have at least one key field filled in.

Pop-up Window: A window that open in your Web browser when you click on a link or a button on the RMIS Web site. Pop-up windows are displayed above the main RMIS window and they must be closed in order to return to the underlying window. Two uses of pop-up windows in RMIS are to display help messages and to display forms that allow the user to click on checkboxes to select PSC codes when using a Query Form.

Preview Window: A separate browser window in which you can preview the result set returned by your query prior to running a report.
**Query Form**: A Query Form is a set of parameters that identifies what data you want reported. Queries serve to restrict the amount of data retrieved from the database when a report is run.

**RMIS**: The Web site that is used to create queries and run reports using data contained in the CWT and CE databases.

**RMPC**: Regional Mark Processing Center, The Pacific States Marine Fisheries office that provides for the planning, organization, direction and control of the centralized CWT data repository at the direction of the Pacific Salmon Commission.

**Tag List**: A tag list is a list of up to 1,000 tag codes. Tag lists are used in the Recoveries by Tag List Query Form, which is optimized for quick retrieval of recovery data from large tag lists.

**Wild Card Searches**: Searching for character string patterns within fields of character data. The most useful example of this is searching by location name when you don't know the exact spelling of the name. If you know that the location name starts with HOH but you're not sure what comes after that, you can enter HOH% in the location name field to search for all location names that start with HOH. Or you can enter %HOH% to search for all location names that contain HOH anywhere in the name.

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### Section 2. Hardware and Software Requirements

You need to have the following in order to use the RMIS Web site.

1. **Operating System**: Windows (2000/XP), Mac (OS X), Linux (RedHat/Fedora)
2. **Web browser**: Internet Explorer 6, Firefox 1.5, Netscape 7 or higher
3. **Browser setting**: JavaScript is required and session cookies must be enabled
4. **Screen resolution**: 1024 by 768 pixels or higher

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### Section 3. Overview

The Pacific States Marine Fisheries Commission hosts the Regional Mark Processing Center (RMPC). This office provides for the management of the centralized data repository for Coded Wire Tag data.

The Coded Wire Tag (CWT) Database is designed to house information relating to the release, sample, and recovery of coded-wire tagged salmonids throughout the Pacific region. These data flow to the PSMFC in the form of Pacific Salmon Commission (PSC) format datasets sent by reporting agencies and must meet stringent validation criteria for inclusion in the permanent database. The RMIS Web site described in this manual is the means by which you may extract CWT data from this database.

Users of the RMIS Web site must be familiar with the document named "PSC Format V4.0 Specification". It is very important that users of CWT data understand the information contained in this document in order to perform conclusive, accurate and responsible analysis of these data. If you do not have a copy of this document you may download an electronic copy in Microsoft Word format at the following URL.

============== PSC_V40_Specification.doc ==============

There are four main classes of CWT data: Release, Catch/Sample, Recovery, and Location. These classes of data are described below.

**Release**

When a group of fish is released from a hatchery or other release location containing any number of coded-wire tagged fish, the group is associated with a unique coastwide Tag Code. Any pertinent information regarding the release group is submitted to the coordinating state, provincial, or federal agency (i.e. Reporting Agency). That agency in turn submits the information to the PSMFC. This information is known as Release data.

When groups of fish are released without coded-wire tagged fish present, the release group is called a non-associated group. Any pertinent information regarding the release group is also submitted to the coordinating state, provincial, or federal agency where it is assigned a 12 character alpha-numeric identifier. This information is likewise submitted to the PSMFC. As of March 2006 there were 40,544 tagged release groups and 87,934 non-associated release groups in the database. Tagged release groups are identified in the CWT database as Record Code "T" and non-associated release groups are identified as Record Code "N".

**Catch/Sample**

Tagged fish are sampled at various commercial, recreational, and escapement fisheries coastwide by sampling agencies. These agencies usually record the sampling area, number caught, percent of catch that was sampled, and related information. This information is called Catch/Sample data and is collected and submitted to the PSMFC on a yearly basis by Reporting Agencies. As of March 2006 there were 1,274,614 Catch/Sample records in the database.

**Recovery**

When tags are removed from fish and decoded, the tag code, specific location of catch, date of catch, fishery, and related biological data are recorded. Where possible, the ratio of the number of fish sampled to the total catch is multiplied by the total number of tags extracted to form the Estimated Number of fish. These data are assembled by the Reporting Agency and are called Recovery data. These data are submitted to the PSMFC on a yearly basis along with Catch/Sample data. Individual recovery records correspond to one observed (decoded) tag.

Each recovery record has an associated "tag status". This status is coded as follows:
Most of the recovery reports in RMIS include only recoveries with a status of "1" (Tag read OK). In addition to passing rigorous validation tests, the status "1" recoveries must match by tag code with a tagged release group. As of March 2006 there were 4,897,735 status "1" recovery records in the database.

Recoveries with a status other than "1" are only available in a few recovery reports, including PSC and CSV formats. As of March 2006 there were 1,187,187 non-status "1" recoveries in the database.

Use of the term "recoveries" in this manual refers only to status "1" recoveries unless explicitly stated otherwise.

**Location**

The geographic locations of release, sample, and specific recovery of fish are also assembled by the Reporting Agency. Collectively, these are called Location data and are submitted to the PSMFC along with all other classes of data.

There are five types of locations. Within each type of location, the location record is uniquely identified coastwide by a 19 character Location Code. That code is associated with a textual description of the location. As of March 2006 there are 31,438 locations in the database.

The five types of locations are described as follows:

1. **Recovery Location**: Recovery locations indicate as closely as possible the actual geographic place where a tagged fish was caught. They are usually specified within larger Catch locations in the sampling stratum. This type of location is found only in Recovery data.
2. **Catch Location**: Catch locations correspond to geographic areas where sampling occurred for a given fishery. They may encompass several recovery locations. This type of location is found only in Catch/Sample data.
3. **Hatchery Location**: Hatchery locations specify the name of the hatchery or rearing facility for non-wild release groups. This type of location is found only in Release data.
4. **Release Location**: Release locations specify the geographic release location of the release group. It may differ from the hatchery location. This type of location is found only in Release data.
5. **Stock Location**: Stock locations differ from all other locations in that they identify the brood stock or morphology of a release group rather than a geographic location. Stocks usually correspond to the name of a stream reach but may be combined if the stock was mixed. This type of location is found only in Release data.

**Section 4. Using the RMIS Web site**

This section describes the top-level menus in the RMIS Web site and outlines how to use an RMIS Query Form to create a query and retrieve records from the database.
Figure 1: RMIS Home Page

The initial page of the RMIS Web site contains three Reporting System options and six other options that can be selected depending on what you want to do. The three Reporting System options represented as icons at the bottom of the page are:

1. **RMIS Standard Reporting**: Run reports using the CWT database
2. **RMIS Catch & Effort Reporting**: Run reports using the CE database
3. **RMIS Analysis Reporting**: Run CWT Analysis and Management Fishery Analysis reports

The six other options represented as links on the left side of the page are:

1. **Overview**: RMPC Introduction, CWT Program Overview, and RMPC Gallery
2. **Committees**: Pacific Salmon Commission and Regional Mark Committee
3. **Publications**: Documents Published by the RMPC
4. **Forums**: Pacific Salmon Commission Discussion Forums
5. **News & Data Status**: View data descriptions and status of data loads in the CWT and CE databases
Figure 2: RMIS Login page

From the RMIS Home Page clicking on either the RMIS Standard Reporting icon or the RMIS Catch & Effort icon leads to the RMIS Login page. The contents of this page are determined by which database you chose, but for the purposes of this user manual the CWT database will be used as an example. Here are the start pages available on the RMIS Login page:

1. **Tagged Releases (Record Code T only)**: Search for Release groups containing coded-wire tagged fish
2. **Non-Associated Releases (Record Code N only)**: Search for Release groups not containing any coded-wire tagged fish
3. **All Releases (Tagged and Non-Associated)**: Search for all release groups regardless of whether they contain coded-wire tagged fish
4. **Adclipped Releases**: For reporting on ad-clipped and unclipped releases
5. **Recoveries by Tag Code (Tag Status 1 only, limit 180 tags)**: Choose this option if you want to search for recoveries by specific tag codes or other Recovery fields
6. **Recoveries by Hatchery (Tag Status 1 only)**: Choose this option if you want to search for recoveries by hatchery or other Release fields
7. **All Recoveries (Tag Status 1-9, limit 180 tags)**: Choose this option if you want to search for recoveries with tag status other than 1 (Tag read OK)
8. **Recoveries by Tag List (Tag Status 1-9, up to 1000 tags)**: Choose this option if you want to search for recoveries by specific tag codes and the number of tag codes in your search is large
9. **Catch/Sample**: Search for all Catch/Sample records
10. **Location Codes**: Search for all Location records

To login, enter your email address and click on the Login button. The first time you login you'll need to verify that you want to create a new account, and then on subsequent logins your email address will be recognized as an existing user. After you click the Login button you'll have full access to all of the RMIS Reporting systems until you either logout or close your browser.
Figure 3: RMIS Query Form

From the RMIS Login page clicking on Login button leads to the RMIS Query Form. The contents of the Query Form are determined by which type of CWT data you choose, but the Query Forms all have the same general structure. The lefthand column of the Query Form is a menu of links that allow you to navigate between different types of CWT data. The top line of the Query Form identifies the type of CWT data being queried. Beneath that are three rows of fields that you can use to build your query. Each field consists of a name and a box. You can click on the name to display a pop-up window for help in filling in the box, or you can type the desired PSC codes directly into the box. In general you can type as many codes as you want into each box, but each code must be on a separate line. The bottom line of the Query Form contains a Retrieve button -- click on the button to run the query and see how many matching records it finds in the database.

Section 5. Running Reports

After you have created a query and successfully retrieved records from the database you can run a report and have the report results delivered to your email inbox or view the report results in your Web browser.

Figure 4: RMIS Query Results

There are three required steps to run a report, and two additional steps depending on the type of report and whether you want to preview the data before running the report. Here are the required steps for all reports.

1. Choose Report : Choose a report format from the pulldown menu.
2. Send To : Choose a delivery method for the report output (Email or Browser)
Section 6. Tutorial: Running a Release Report

This example will show how to run a Release report using a wild card search. Starting from the RMIS Home Page select "RMIS Standard Reporting", then select "Tagged Releases" to display the Releases Query Form.

Build a Release Query

The Query Form allows you to enter values in any or all of the fields to restrict the number of Releases that will be reported. For the purposes of this example, we will use a wild card search to build a query that will report Release data from all release locations whose name begins with the word HOH.

1. Click in the box beneath the field name "Release Location Name".

2. Type HOH% in the box. (The % is a wild card character.)

Note About Wild Card Searches: Many character fields in the RMIS Query Forms allow "wild card" searches for matching patterns of characters within the field rather than matching the full field value. To perform a wild card search, type the initial part of the pattern, followed by the % pattern matching character. For example, to match all release location names that start with the word PHOH, type PHOH%.

Retrieve and Display Query Results

1. Click on the Retrieve button at the bottom of the Query Form. This should display the Query Results window which tells you how many rows were found for your query.

2. If you would like to preview the rows returned by your query prior to running a report, click on the Preview button.

Note About the Preview Window: The Preview Windows allows you to page through the result set returned by your query using Next and Previous buttons. It displays actual rows of data from the CWT database in HTML table format. In the case where there are less than 20 rows returned by your query the Next and Previous buttons aren't displayed. If you want to see the SQL SELECT statement generated by your query click on the Show SQL button. When you are done with the Preview Window click the Close Preview button to return to the Query Results page.

Run a Report

1. Choose a report to run by clicking on the "Choose Report:" pulldown menu and then clicking on the report named "RMPC Release book, side A (RBA)".

2. Choose a delivery method for your report by clicking on the "Browser" radio button in the "Send To:" box.

3. Click on the Run button to start the report. Depending on which Web browser you're using you may see the cursor turn into an hourglass or you may see a status message at the top or the bottom of the browser window while the report is running.

4. When the report is done it will be displayed in your browser window. You can read the report in your browser window, or you can select the data in the browser window and copy & paste it into another program, or you can save the data in the browser window to a file on your PC. When you are done with the report click on one of the buttons at the top of the browser window to return to either the Query Results page or the Query Form page.

This concludes the example of running a Release report. Reports for the other type of PSC data can be run in a similar manner.

Section 7. Tutorial: Running a Recovery Report

This example will show how to run a Recovery report using a key field search and a pop-up window. Starting from the RMIS Home Page select "RMIS Standard Reporting", then select "Recoveries by Tag Code" to display the Recoveries by Tag Code Query Form.

Build a Recovery Query
For the purposes of this example, we will use a tag code search to build a query that will report Recovery data for four tag codes from the Ambrose Ponds hatchery that were released in 1987-1988 and recovered in 1988-1991.

1. Click in the box beneath the field name "Tag Code (key)".

Note About Key Fields: Because there are over 5 million recovery records in the CWT database it's necessary to use indexes to achieve acceptable performance when retrieving recovery records. The indexes are represented on the recovery Query Form by "key" fields, and the rule is that every recovery query must include at least one key field. If you neglect to enter a value in at least one key field RMIS will display a warning message when you try to retrieve the query results.

2. Type these four tag codes on separate lines: 065630, 065631, 065633, and 066147. Press the [Enter] key after each tag code to move the cursor to the next line.

3. Click on the field name "Recovery Year (key)". Each field name is a link to a pop-up window that helps you construct your query.

4. In the "Begin:" pulldown menu select 1988, and in the "End:" pulldown menu select 1991. Then click the Close button which will return you to the Query Form and you'll see the years 1988, 1989, 1990, and 1991 in the "Recovery Year (key)" box.

Note Pop-Up Windows: Every field name on every RMIS query form has a context-sensitive pop-up window. In the case of fields with defined PSC codes, the pop-up window will display the codes and associated descriptions and you can click on checkboxes to select the desired codes. In the case of year fields, the pop-up window let's you choose the begin and end years and then fills in the intervening years. In the case of location fields, the pop-up window displays the top level of the geographic hierarchy of locations and let's you navigate down the levels of the hierarchy to find the desired location codes or location names or PSC basins or PSC regions.

Retrieve and Display Query Results

1. Click on the Retrieve button at the bottom of the Query Form. This should display the Query Results window which tells you how many rows were found for your query.

2. If you would like to preview the rows returned by your query prior to running a report, click on the Preview button.

Run a Report

1. Choose a report to run by clicking on the "Choose Report:" pulldown menu and then clicking on the report named "Tag Summary by Recovery Year, Fishery (TS1-Recy)."

2. Choose a delivery method for your report by clicking on the "Browser" radio button in the "Send To:" box.

This concludes the example of running a Recovery report.

Section 8. Tutorial: Running a CSV Report With Email Delivery

This example will show how to run a Location report producing an ASCII comma-separated-value output file and having it delivered via email. Starting from the RMIS Home Page select "RMIS Standard Reporting", then select "Location Codes" to display the Locations Query Form.

Build a Location Query

For the purposes of this example, we will use a simple search to build a query that will report all Location data for one reporting agency.

1. Click in the box beneath the field name "Reporting Agency".

2. Type IDFG in the box.

Retrieve and Display Query Results

1. Click on the Retrieve button at the bottom of the Query Form. This should display the Query Results window which tells you how many rows were found for your query.

2. If you would like to preview the rows returned by your query prior to running a report, click on the Preview button.

Run a Report

1. Choose a report to run by clicking on the "Choose Report:" pulldown menu and then clicking on the report named "Comma-Separated Values custom file (CSV)".

2. Choose a delivery method for your report by clicking on the "Email" radio button in the "Send To:" box.
3. Click in the "Description:" field and type TESTING.

4. Scroll to the bottom of the Web page so you can see the entire section titled "CSV/HTM Data Field Chooser". In the left-hand box click on the line "[PSC] Location Code" and then click on the '>' button, which will put "location_code" on the first line in the right-hand box. In the left-hand box click on the line "[PSC] Location Type" and then click on the '>' button, which will put "location_type" on the second line in the right-hand box. In the left-hand box click on the line "[PSC] Name" and then click on the '>' button, which will put "name" on the third line in the right-hand box.

5. Click on the Run button to start the report.

6. When the report starts running an Email Notification message will be displayed in your browser window.

   Note About Email Delivery: The advantage of using Email delivery for RMIS reports is that you don't have to wait for the report to complete, you can continue working on other tasks in your browser window while the report is running on the server. Email delivery isn't limited to CSV reports, it can be used with any RMIS report, and it is particularly advantageous with large result sets that take a long time to run or that produce large amounts of output.

7. When the report is done you will receive an email message from rmpc.admin@psmfc.org. The subject of the email message will identify the type of report, in this case it will say "Locations CSV report from RMPC website". Open the email message and you will see the description TESTING at the top of the message followed by two links that allow you to download the report output file in either text or zip format. The message tells you how large the two files are to help you decide which format to download. The zip file will download faster, but it will need to be unzipped after the download using a program like WinZip. After you decide which format to download, click on the appropriate link to start the download. The actual download steps will vary depending on which email program you're using, but most programs should allow you to save the file to a directory of your choice on your PC's local disk.

8. After you have successfully downloaded the CSV file to your disk, you can import it into any personal computer program that can read CSV files. For example, it can be imported into a Microsoft Excel spreadsheet or a Microsoft Access database table.

   Note About HTM Reports: Like CSV reports, HTM reports allow you to create custom output files that can be easily imported into Excel and Access. The major difference between CSV and HTM reports is that HTM report data is written in HTML table format which is easier to view in a Web browser window.

This concludes the example of running a CSV report with email delivery.

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Section 9. Data Status

In addition to the RMIS Query System that provides access to Release, Recovery, Catch/Sample and Location data, there are a set of RMIS Data Status pages that provide descriptions and load dates for the datasets in the CWT database. You can get to the RMIS Data Status Menu by clicking on the "News & Data Status" link on the left side of the RMIS Home Page.

![Figure 5: RMIS Data Status Menu](image)

The Data Status Menu is a table with Dataset Descriptions in the first column and Dataset Load Dates in the second column. The rows of the table are the five types of data available: Release, Recovery, Catch/Sample, Location and Catch & Effort. Clicking on one of the links in the Dataset Descriptions column displays the Data Descriptions summary page.
The Data Descriptions summary page is a table with one column for each reporting agency and rows that vary depending on the type of data being displayed. For Release and Location data there is only one row, and for Recovery and Catch/Sample data there is a row for each year. The legend above the table describes the meaning of the colors in the cells and the labels on the buttons. Clicking on a button in one of the cells displays a pop-up Data Descriptions detail window.

The Data Descriptions detail pop-up window displays the descriptions submitted by the reporting agency for a particular dataset, as described in the Description section of the "PSC Format V4.0 Specification" document. Descriptions are sorted by Submission date with the most recent submission on top.

Going back to the RMIS Data Status Menu, clicking on one of the links in the Dataset Load Dates column displays the Load Dates summary page.
The Load Dates summary page is a table with one column for each reporting agency and rows that vary depending on the type of data being displayed. For Release and Location data there is only one row, and for Recovery and Catch/Sample data there is a row for each year. The legend above the table describes the meaning of the colors in the cells. The labels on the buttons show the most recent load date for that cell. Clicking on a button in one of the cells displays a pop-up Load Dates detail window.

The Load Dates detail pop-up window displays the actual dates a particular dataset was loaded into the CWT database and validated with the rules defined in the "PSC Format V4.0 Specification" document. Rows in the table are sorted by Dataset Processed date with the most recent date on top. The description column includes validation statistics (how many rows passed the validation and how many failed), and also indicates the most recent date a fully validated dataset was moved into the CWT database and made available for reporting.

Section 10. Help

RMIS has extensive on-line Help information available. In addition to the pop-up windows described in previous sections of this manual that provide help selecting PSC codes for use on a Query Form, there is context-sensitive help available on most pages. The help icon is a question mark in a circle followed by the word "Help". Here's an example showing how the help icon looks (note: this example icon doesn't open a pop-up window so don't bother clicking on it).

Clicking on a help icon on any RMIS page will display a pop-up window with detailed instructions on how to use the features of that page. After you've read the help information close the pop-up window to continue working on the page.
### Appendix A. Releases Report Format Descriptions

This appendix describes the report formats available in the "Tagged Releases", "Non-Associated Releases", and "All Releases" paths of the RMIS Query System, and shows example output for all except CSV, HTM and PSC formats. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the “PSC Format V4.0 Specification” document.

**RMPC Release book, side A (RBA):** First side of the annual Release book published by the RMPC.

<table>
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<th>Rate</th>
<th>Mrk Cnt</th>
<th>Rpmt Cnt</th>
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<th>Bd Rel.</th>
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<td>0</td>
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<td>R-CAPILANO R</td>
<td>850604</td>
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</table>

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**RMPC Release book, side B (RBB):** Second side of the annual Release book published by the RMPC.

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<td>E</td>
<td>03</td>
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</table>

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**PSC Format V4.0 Specification**
Comma-Separated Values custom file (CSV): Comma-separated-value report with fields selected by the user.

HTML custom table (HTM): HTML table report with fields selected by the user.

Tag List (RTL) for copy/paste to new query: Generates a list of tag codes that can be copied to the clipboard and pasted into the tag code field on a Release or Recovery Query Form.
Appendix B. Adclipped Releases Report Format Descriptions

This appendix describes the report formats available in the "Adclipped Releases" path of the RMIS Query System, and shows example output for all except CSV and HTM formats. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen.

Ad-clipped Releases Summary (AS1) : Summary of ad-clipped and unclipped releases sorted by species, brood year and release year.

---------- Begin AS1 Example ----------

10:21:27 01/15/2003 Regional Mark Information System
PAGE 1
REPORT: AS1 AD-CLIPPED RELEASES SUMMARY
SPECIES: Chinook BROOD YEAR: 2000
RELEASE YEAR: 2000
S/P REGION BASIN HATCHERY/FACILITY ----- CWT TAGGED ----- ------------ NON-CWT --------
-----       TOTAL
-----       UNCLIPPED AD-CLIPPED UNCLIPPED AD-CLIPPED UNCLIPPED
UNKNOWN
CA SACR SACR COLEMAN NFH 222491 0 7628 0
0 230119
CA SACR SACR 1266 0 91 0
0 1357
WA MPS PUYA VOIGHTS CR HATCHERY 0 0 0 4
0 4
----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  ----------  ----------  -----  ----------  ----------  --------

Note: Numbers of adipose-clipped fish may be inaccurate due to incomplete data collection and/or partial marking.
---------- End AS1 Example ----------

Comma-Separated Values custom file (CSV) : Comma-separated-value report with fields selected by the user.

HTML custom table (HTM) : HTML table report with fields selected by the user.

Appendix C. Recoveries by Tag Code Report Format Descriptions

This appendix describes the report formats available in the "Recoveries by Tag Code" path of the RMIS Query System, and shows example output for all except CSV, HTM and PSC formats. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the "PSC Format V4.0 Specification" document.

Tag Detail by Recovery Year, Fishery (TD1-Rec) : This fixed-field report summarizes tag code recoveries by recovery year, agency, and fishery.

---------- Begin TD1-Rec Example ----------

FORMAT: TAG DETAIL BY FISHERY (TD1) -- BY RECOVERY YEAR
TAGCODE YEAR AGCY FC OBS'D EST'D MEAS'D AVG MM
082244 1984 CDFO 50 28 29
082244 1985 CDFO 10 28 123 21 559
082244 1985 CDFO 23 45 160 42 601
082244 1985 CDFO 40 99 355
082244 1985 CDFO 50 142 199
082244 1985 WDFW 23 2 4 2 655
082244 1985 WDFW 45 1 2
082244 1986 CDFO 40 1 4
---------- End TD1-Rec Example ----------

Tag Detail by Run Year, Fishery (TD1-Run) : This fixed-field report summarizes tag code recoveries by run year, agency, and fishery.

---------- Begin TD1-Run Example ----------

FORMAT: TAG DETAIL BY FISHERY (TD1) -- BY RUN YEAR
TAGCODE YEAR AGCY FC OBS'D EST'D MEAS'D AVG MM
082244 1984 CDFO 50 28 29

--- Begin TD1-Run Example ---

<table>
<thead>
<tr>
<th>Tag Code</th>
<th>Year</th>
<th>Site Name</th>
<th>Site Code</th>
<th>Obs'D</th>
<th>Est'D</th>
<th>Meas'D</th>
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<tbody>
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--- End TD1-Run Example ---

--- Begin TD2-Rec Example ---

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<td>089</td>
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<td>8</td>
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--- End TD2-Rec Example ---

--- Begin TD2-Run Example ---

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<th>Site Code</th>
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<td>29</td>
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<td>CDFO 10</td>
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--- End TD2-Run Example ---

--- Begin TD3 Example ---

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<th>Est'D</th>
<th>Meas'D</th>
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<td>CDFO 10</td>
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<td>3</td>
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<td>082244</td>
<td>1985</td>
<td>CDFO 10</td>
<td>014-000 2MS04014</td>
<td>000</td>
<td>3</td>
<td>16</td>
<td></td>
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<tr>
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<td>1985</td>
<td>CDFO 10</td>
<td>014-089 2MS04014</td>
<td>089</td>
<td>2</td>
<td>8</td>
<td>1</td>
</tr>
<tr>
<td>082244</td>
<td>1985</td>
<td>CDFO 10</td>
<td>016-000 2MS04016</td>
<td>000</td>
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<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

--- End TD3 Example ---

--- Begin TD4-Rec Example ---

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<th>Site Code</th>
<th>Obs'D</th>
<th>Est'D</th>
<th>Meas'D</th>
<th>AVG MM</th>
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</thead>
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<td>2FS99JNSTH0106</td>
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<td>CDFO 10</td>
<td>013-000 2MS040101</td>
<td>000</td>
<td>3</td>
<td>12</td>
<td>3</td>
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<tr>
<td>082244</td>
<td>1985</td>
<td>CDFO 10</td>
<td>014-000 2MS04014</td>
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<td>3</td>
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<td>1</td>
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<tr>
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<td>1985</td>
<td>CDFO 10</td>
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<td>000</td>
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--- End TD4-Rec Example ---
Tag Detail by Run Year, Site Name (TD4-Run): This fixed-field report summarizes recoveries of tag codes by run year, agency, fishery, recovery location code.

FORMAT: TAG DETAIL BY SITE SHORT NAME (TD4) -- BY RECOVERY YEAR
TAGCODE YEAR AGCY FC SITE NAME OBS'D EST'D MEAS'D AVG MM
082244 1984 CDFO 50 H-QUINSAM R 28 29
082244 1985 CDFO 10 GSTR 013-000 3 12 3 530
082244 1985 CDFO 10 GSTR 014-000 3 16
082244 1985 CDFO 10 GSTR 014-089 2 8 1 450
082244 1985 CDFO 10 GSTR 032-086 1 4
082244 1985 CDFO 10 GSTR 101-043 2 8

Tag Detail by Site, Statistical Week (TD5): This fixed-field report summarizes recoveries of tag codes by recovery year, agency, fishery, recovery location code, and statistical week.

FORMAT: TAG DETAIL BY SITE SHORT NAME/STAT. WEEK (TD5)
TAGCODE YEAR AGCY FC SITE NAME WK OBS'D EST'D MEAS'D AVG MM
082244 1984 CDFO 50 H-QUINSAM R -1 28 29
082244 1985 CDFO 10 GSTR 013-000 27 1 5 1 570
082244 1985 CDFO 10 GSTR 013-000 29 1 0 1 430
082244 1985 CDFO 10 GSTR 013-000 30 1 6 1 590
082244 1985 CDFO 10 GSTR 014-000 28 1 3
082244 1985 CDFO 10 GSTR 014-000 30 2 13
082244 1985 CDFO 10 GSTR 014-000 30 2 8 1 450
082244 1985 CDFO 10 GSTR 016-000 29 1 4 1 481
082244 1985 CDFO 10 GSTR 032-086 29 1 4
082244 1985 CDFO 10 GSTR 101-043 29 2 8

Tag Raw Zero Filled (TR1): This fixed-field report lists individual tag code recoveries sorted by agency, fishery, and recovery date.

FORMAT: TAG DETAIL BY SITE SHORT NAME (TD4) -- BY RECOVERY YEAR
TAGCODE YEAR AGCY FC SITE NAME OBS'D EST'D MEAS'D AVG MM
082244 1982 Coho 850706 CDFO 10 2MN57011 000 0.00 580
082244 1982 Coho 850706 CDFO 10 2MN57000 000 4.88 564
082244 1982 Coho 850706 CDFO 10 2MS04013 000 5.46 570
082244 1982 Coho 850706 CDFO 10 2MS17118 000 0.00 514
082244 1982 Coho 850713 CDFO 10 2MS04014 000 2.68 0
082244 1982 Coho 850713 CDFO 10 2MS01027 070 6.01 640
082244 1982 Coho 850713 CDFO 10 2MS02023 000 5.38 533
082244 1982 Coho 850713 CDFO 10 2MN57011 042 5.18 590

Tag Summary by Recovery Year, Fishery (TS1-Rec): This formatted report summarizes recoveries of tag codes by recovery year, fishery, and agency.

REPORT: TS1-Rec ANNUAL RECOVERIES BY REC YEAR
TAGCODE: 082244
RELEASE AGENCY: CDFO STUDY TYPE: E
1982 Fall Coho #CWT: 9843 HATCHERY: H-QUINSAM R
RELEASED: 6/ 1/1984 LOSS RATE: 0.013 SITE: R-QUINSAM R
LENGTH: #NON-CWT: 17623 STOCK: S-QUINSAM R
YEAR FISHERY - Recovery Agency ................. OBS'D EST'D MEAS'D AVG MM
1984 Hatchery - CDFO 28 29
1984 TOTALS: 28 29
1985 Estuary Sport - WDFW 1 2
Hatchery - CDFO 142 199
Mixed Net and Seine - CDFO 45 160 42 601
Mixed Net and Seine - WDFW 2 4 2 655
Ocean Sport - CDFO 59 355
Ocean Troll (non-treaty) - CDFO 28 123 21 559
1985 TOTALS: 7844 65 589
1986 Ocean Sport - CDFO 1 4
1986 TOTALS: 1 4
Tag Summary by Run Year, Fishery (TS1-Run): This formatted report summarizes recoveries of tag codes by run year, fishery, and agency.

Release Agency: CDFO
Study Type: E

1982 Fall Coho
#CWT: 9843 HATCHERY: H-QUINSAM R
RELEASED: 6/1/1984 LOSSE RATE: 0.013 SITE: R-QUINSAM R
LENGTH: #NON-CWT: 17623 STOCK: S-QUINSAM R

YEAR FISHERY - RECOVERY AGENCY...
OBS'D EST'D MEAS'D AVG MM
1984 Hatchery - CDFO 28 29
1984 TOTALS: 28 29
1985 Estuary Sport - WDFW 1 2
Hatchery - CDFO 142 199
Mixed Net and Seine - CDFO 45 160 42 601
Mixed Net and Seine - WDFW 2 4 2 655
Ocean Sport - WDFW 3 205
Ocean Trolled (non-treaty) - WDFW 28 123 21 559
1985 TOTALS: 317 844 65 589
1986 Ocean Sport - CDFO 1 4
1986 TOTALS: 1 4

TOTALS FOR TAGCODE 082244 346 878 65 589

--- End TS1-Run Example ---

Tag Summary by Month, Site Name (TS2): This formatted report summarizes recoveries of tag codes by recovery year, fishery, agency, recovery location name, and month.

RELEASE AGENCY: CDFO
STUDY TYPE: E

1982 Fall Coho
#CWT: 9843 HATCHERY: H-QUINSAM R
RELEASED: 6/1/1984 LOSSE RATE: 0.013 SITE: R-QUINSAM R
LENGTH: #NON-CWT: 17623 STOCK: S-QUINSAM R

YEAR FISHERY - RECOVERY AGENCY...
OBS'D EST'D MEAS'D AVG MM
1984 Hatchery - CDFO 28 29
1984 TOTALS: 28 29
1985 Estuary Sport - WDFW 1 2
Hatchery - CDFO 142 199
Mixed Net and Seine - CDFO 45 160 42 601
Mixed Net and Seine - WDFW 2 4 2 655
Ocean Sport - WDFW 3 205
Ocean Trolled (non-treaty) - WDFW 28 123 21 559
1985 TOTALS: 317 844 65 589
1986 Ocean Sport - CDFO 1 4
1986 TOTALS: 1 4

TOTALS FOR TAGCODE 082244 346 878 65 589

--- End TS2 Example ---

Tag Summary by Fortnight, Site Name (TS3): This formatted report summarizes recoveries of tag codes by recovery year, fishery, agency, recovery location name, and fortnight (2-week period).

RELEASE AGENCY: CDFO
STUDY TYPE: E

1982 Fall Coho
#CWT: 9843 HATCHERY: H-QUINSAM R
RELEASED: 6/1/1984 LOSSE RATE: 0.013 SITE: R-QUINSAM R
LENGTH: #NON-CWT: 17623 STOCK: S-QUINSAM R

YEAR FISHERY - RECOVERY AGENCY...
OBS'D EST'D MEAS'D AVG MM
1984 Hatchery - CDFO 28 29
1984 TOTALS: 28 29
1985 Estuary Sport - WDFW 1 2
Hatchery - CDFO 142 199
Mixed Net and Seine - CDFO 45 160 42 601
Mixed Net and Seine - WDFW 2 4 2 655
Ocean Sport - WDFW 3 205
Ocean Trolled (non-treaty) - WDFW 28 123 21 559
1985 TOTALS: 317 844 65 589
1986 Ocean Sport - CDFO 1 4
1986 TOTALS: 1 4

TOTALS FOR TAGCODE 082244 346 878 65 589

--- End TS3 Example ---
Tag Summary by Statwk, Site Name (TS4): This formatted report summarizes recoveries of tag codes by recovery year, fishery, agency, recovery location name, and statistical week.

---------- Begin TS4 Example ----------

**1982 Fall Coho**

**LENGTH:**

**RELEASE AGENCY:** CDFO  
**#CWT:** 9843  
**HATCHERY:** R-QUINSAM R

**RELEASED:** 6/1/1984  
**LOSS RATE:** 0.013  
**SITE:** R-QUINSAM R

**STUDY TYPE:** E  
**#NON-CWT:** 17623  
**STOCK:** S-QUINSAM R

**FISHERY/AREA**

**WEEK NUMBER:**

**5 PLUS 4 & 4B**

**Mixed Net and Seine**

**- WDFW**

**OBS**

1

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**SAN JUAN ISLANDS**

**- WDFW**

**OBS**

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**FISHERY TOTALS:**

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**TOTALES FOR 1985**

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**---------- End TS3 Example ----------**

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**Regional Mark Information System**

**PAGE 1**

**REPORT:** TS4  
**1985 RECOVERIES OF TAMCODE**  
**082244**

**1982 Fall Coho**

**LENGTH:**

**RELEASE AGENCY:** CDFO  
**#CWT:** 9843  
**HATCHERY:** H-QUINSAM R

**RELEASED:** 6/1/1984  
**LOSS RATE:** 0.013  
**SITE:** R-QUINSAM R

**STUDY TYPE:** E  
**#NON-CWT:** 17623  
**STOCK:** S-QUINSAM R

**FISHERY/AREA**

**WEEK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21**

**5 PLUS 4 & 4B**

**Mixed Net and Seine**

**- WDFW**

**OBS**

1

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**SAN JUAN ISLANDS**

**- WDFW**

**OBS**

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**---------- End TS3 Example ----------**

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**Regional Mark Information System**

**PAGE 1**

**REPORT:** TS4  
**1985 RECOVERIES OF TAMCODE**  
**082244**

**1982 Fall Coho**

**LENGTH:**

**RELEASE AGENCY:** CDFO  
**#CWT:** 9843  
**HATCHERY:** R-QUINSAM R

**RELEASED:** 6/1/1984  
**LOSS RATE:** 0.013  
**SITE:** R-QUINSAM R

**STUDY TYPE:** E  
**#NON-CWT:** 17623  
**STOCK:** S-QUINSAM R

**FISHERY/AREA**

**WEEK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48**

**5 PLUS 4 & 4B**

**Mixed Net and Seine**

**- WDFW**

**OBS**

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**SAN JUAN ISLANDS**

**- WDFW**

**OBS**

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**---------- End TS3 Example ----------**

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**Regional Mark Information System**

**PAGE 1**

**REPORT:** TS4  
**1985 RECOVERIES OF TAMCODE**  
**082244**

**1982 Fall Coho**

**LENGTH:**

**RELEASE AGENCY:** CDFO  
**#CWT:** 9843  
**HATCHERY:** H-QUINSAM R

**RELEASED:** 6/1/1984  
**LOSS RATE:** 0.013  
**SITE:** R-QUINSAM R

**STUDY TYPE:** E  
**#NON-CWT:** 17623  
**STOCK:** S-QUINSAM R

**FISHERY/AREA**

**WEEK 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48**

**5 PLUS 4 & 4B**

**Mixed Net and Seine**

**- WDFW**

**OBS**

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**SAN JUAN ISLANDS**

**- WDFW**

**OBS**

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**---------- End TS3 Example ----------
### FISHERY TOTALS:

| WEEK | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| OBS  | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| EST  | 3 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| #LM | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

**TOTALS FOR 1985**

| WEEK | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| OBS  | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| EST  | 3 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| #LM | 1 |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

---------- End TS4 Example ----------

**Tag Estimation Analysis by Rec Year (TA1-Rec):** This formatted report summarizes recoveries of tag codes by recovery year. The column headers in the report header are determined by the actual years in the query results.

---------- Begin TA1-Rec Example ----------

**REPORT: TA1-Rec**

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<tr>
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<tbody>
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<td>082244</td>
<td>9843</td>
<td>H-QUINSAM R</td>
<td>Coho</td>
<td>Fall</td>
<td>1982</td>
<td>29</td>
<td>844</td>
<td>4</td>
<td>878</td>
<td>20:43:44 01/15/2003</td>
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</table>

---------- End TA1-Rec Example ----------

**Tag Estimation Analysis by Run Year (TA1-Run):** This formatted report summarizes recoveries of tag codes by run year. The column headers in the report header are determined by the actual years in the query results.

---------- Begin TA1-Run Example ----------

**REPORT: TA1-Run**

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<td>1982</td>
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<td>844</td>
<td>4</td>
<td>878</td>
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---------- End TA1-Run Example ----------

**Species Survival Analysis (SA1):** This formatted report calculates release group percent survival.

---------- Begin SA1 Example ----------

**REPORT: SA1**

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<th>BrYr</th>
<th>Date Rel</th>
<th>Release Location</th>
<th>Hatchery Location</th>
<th>#CWT</th>
<th>LossRt</th>
<th>#Non-CWT</th>
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<th>#Obs</th>
<th>#Est</th>
<th>% Surv</th>
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<td>8.92</td>
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**Release Group Percent Survival:** \( \% \text{Surv} = \frac{\text{Total(Estimated.Number)}}{\text{Number.Released.CWT}} \times 100 \)

---------- End SA1 Example ----------

**PSC 4.0 Data Exchange format (PRC):** Pacific Salmon Commission data exchange format for Recovery data. See "PSC Format V4.0 Specification" document.

**Comma-Separated Values custom file (CSV):** Comma-separated-value report with fields selected by the user.
Appendix D. Recoveries by Hatchery Report Format Descriptions

This appendix describes the report formats available in the "Recoveries by Hatchery" path of the RMIS Query System, and shows example output for all except CSV, HTM and PSC formats. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the "PSC Format V4.0 Specification" document.

Annual Rec by Recovery Year, Fishery (HS1-Rec): This formatted report summarizes recoveries by recovery year, fishery, and agency.

---------- Begin HS1-Rec Example ----------
20:51:00 01/15/2003  Regional Mark Information System  PAGE 1
REPORT: HS1-Rec  ANNUAL RECOVERIES BY REC YEAR
HATCHERY: HUMPTULIPS HATCHERY  SPECIES: Chinook
STOCK: HUMPTULIPS R 22.004  RUN: Fall

YEAR FISHERY - Recovery Agency .......... OBS'D EST'D MEAS'D AVG MM
1992 Coastal Gillnet - QDNR 4 9
Commercial Seine - ADFG 3 0 3 433
Groundfish Observer (Gulf of Alaska - NMFS 1 8
Hatchery - WDFW 6 6 6 478
Mixed Net and Seine - CDFO 1 4 1 355
Sport (private) - WDFW 1 3 1 420
1992 TOTALS: 16 30 11 449
---------- End HS1-Rec Example ----------

Annual Rec by Run Year, Fishery (HS1-Run): This formatted report summarizes recoveries by run year, fishery, and agency.

---------- Begin HS1-Run Example ----------
20:54:57 01/15/2003  Regional Mark Information System  PAGE 1
REPORT: HS1-Run  ANNUAL RECOVERIES BY RUN YEAR
HATCHERY: HUMPTULIPS HATCHERY  SPECIES: Chinook
STOCK: HUMPTULIPS R 22.004  RUN: Fall

YEAR FISHERY - Recovery Agency .......... OBS'D EST'D MEAS'D AVG MM
1992 Coastal Gillnet - QDNR 4 9
Commercial Seine - ADFG 3 0 3 433
Groundfish Observer (Gulf of Alaska - NMFS 1 8
Hatchery - WDFW 6 6 6 478
Mixed Net and Seine - CDFO 1 4 1 355
Sport (private) - WDFW 1 3 1 420
1992 TOTALS: 16 30 11 449
---------- End HS1-Run Example ----------

Estimated Recoveries by Calendar Month (HS2): This formatted report summarizes estimated recoveries by recovery year, fishery, agency, and recovery month.

---------- Begin HS2 Example ----------
20:55:35 01/15/2003  Regional Mark Information System  PAGE 1
REPORT: HS2  1992 ESTIMATED RECOVERIES (CALENDAR MONTH)
HATCHERY: HUMPTULIPS HATCHERY  SPECIES: Chinook
STOCK: HUMPTULIPS R 22.004  RUN: Fall

FISHERY/AREA....... JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC UNK TOTAL
--------------------------
1992

---------------------------------------------
Coastal Gillnet - QDNR
HUMPTULIPS R 22.004  3 6 9
FISHERY TOTALS: 3 6 9

Commercial Seine - ADFG
AK M 1 NE 109-62
AK M 1 SE 102-10
AK M 1 SW 104-40 0 0
FISHERY TOTALS: 0 0

Groundfish Observer (Gulf of Alaska - NMFS
HIGH SEA 3 57N 151W 8 8
FISHERY TOTALS: 8 8

Hatchery - WDFW
HUMPTULIPS HATCHERY 3 3 6
FISHERY TOTALS: 3 3 6

---------- End HS2 Example ----------
Mixed Net and Seine - CDFO
  CN 086-313 4 4
FISHERY TOTALS: 4 4
Sport (private) - WDFW
MARINE AREA 1
  FISHERY TOTALS: 3 3
TOTALS FOR 1992 7 3 17 3 30

Annual Recoveries by Recovery Year (HS4): This formatted report summarizes recoveries by tag code, recovery year, fishery, and agency.

Recovery Estimation Analysis by Year (HA2): This formatted report summarizes estimated recoveries by stock, species, run, brood year, and recovery year.

Appendix E. All Recoveries Report Format Descriptions

This appendix describes the report formats available in the "All Recoveries" path of the RMIS Query System, and shows example output for all except CSV, HTM and PSC formats. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the "PSC Format V4.0 Specification" document.

Appendix F. Recoveries by Tag List Report Format Descriptions

This appendix describes the report formats available in the "Recoveries by Tag List" path of the RMIS Query System. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the "PSC Format V4.0 Specification" document.

- **PSC 4.0 Data Exchange format (PRC)**: Pacific Salmon Commission data exchange format for Recovery data. See "PSC Format V4.0 Specification" document.

- **Comma-Separated Values custom file (CSV)**: Comma-separated-value report with fields selected by the user.

- **HTML custom table (HTM)**: HTML table report with fields selected by the user.

Appendix G. Catch/Sample Report Format Descriptions

This appendix describes the report formats available in the "Catch/Sample" path of the RMIS Query System. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the "PSC Format V4.0 Specification" document.

- **PSC 4.0 Data Exchange format (PCS)**: Pacific Salmon Commission data exchange format for Catch/Sample data. See "PSC Format V4.0 Specification" document.

- **Comma-Separated Values custom file (CSV)**: Comma-separated-value report with fields selected by the user.

- **HTML custom table (HTM)**: HTML table report with fields selected by the user.

Appendix H. Locations Report Format Descriptions

This appendix describes the report formats available in the "Location Codes" path of the RMIS Query System. CSV and HTM reports are custom designed by the user, as described earlier in this manual, so the format varies depending on the fields chosen. PSC reports are described fully in the "PSC Format V4.0 Specification" document.

- **PSC 4.0 Data Exchange format (PLC)**: Pacific Salmon Commission data exchange format for Location data. See "PSC Format V4.0 Specification" document.

- **Comma-Separated Values custom file (CSV)**: Comma-separated-value report with fields selected by the user.

- **HTML custom table (HTM)**: HTML table report with fields selected by the user.