



REGIONAL MARK INFORMATION SYSTEM

USER GUIDE

*Pacific States Marine Fisheries Commission
Regional Mark Processing Center*

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Chapter 1 Data Introduction and Overview

This user guide is intended for users of the Regional Mark Information System (RMIS) web application operated by the Pacific States Marine Fisheries Commission (PSMFC).

The Pacific States Marine Fisheries Commission hosts the Regional Mark Processing Center (RMPC). This office maintains RMIS to facilitate exchange of regional tagging and marking data between release agencies, sampling/recovery agencies, and other data users. The RMPC houses the regional Coded-Wire Tag (CWT) database.

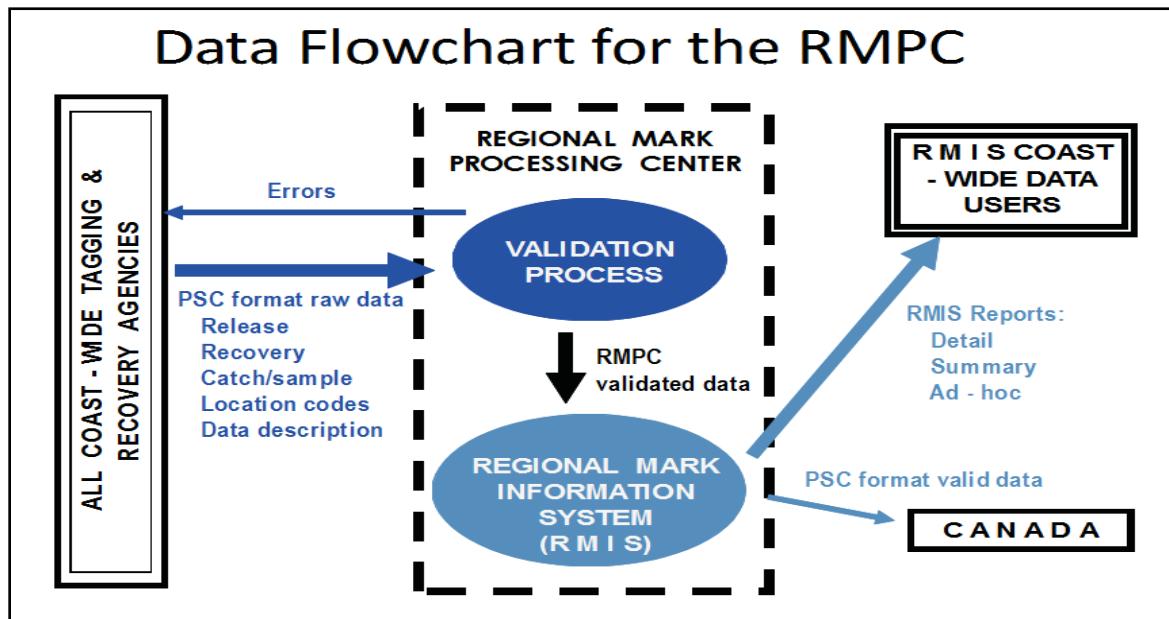


Figure 1: Flowchart showing flow of datasets at the PSMFC Regional Mark Processing Center

The data flow process of the RMPC is shown in Figure 1. The CWT data are submitted to the RMPC where they are loaded and validated against an extensive set of checks. These checks are to verify the integrity and accuracy of the data elements. The RMPC also serves as the U.S. site for exchanging U.S. CWT data with Canada for Pacific Salmon Treaty purposes. Canada also houses a complete copy of coastwide CWT data sets.

1.1 Document References

Users of the RMIS web site must be familiar with the principal CWT data specification reference named below. 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 at the following URL: [CWT Data File Definition, Specification, & Validation](#). In addition, users of RMIS may wish to consult the principal overview publication of the coast-wide CWT program located at this URL: [Overview of the CWT Program](#).

1.2 Types (classes) of data

All types of data housed at the RMPC are described as follows.

Release (RL)

When a group of fish is released from a hatchery or other release site containing any number of coded wire tagged fish, the group is associated with a unique tag code. Any pertinent information from releasing agencies regarding the release group is submitted to the RMPC by the responsible state, provincial, or federal agencies. There are approximately 50,000 tagged release groups in the database dating back to 1968.

When groups of fish are released without coded wire tagged fish present, the release group is called an untagged/unassociated group. The release group is assigned a 12 character alpha-numeric identifier. This information is likewise submitted to the RMPC. There are approximately 100,000 untagged release groups in the database dating back to 1952.

Catch / Sample (CS)

Tagged fish are sampled at various commercial, recreational, tribal and escapement fisheries Pacific Coastwide by sampling agencies. These agencies usually record the sampling area, number caught, and percent of catch that was sampled and related information. This information is called Catch/Sample data and is collected by sampling agencies for submission to the RMPC on a yearly basis by specific reporting agencies. There are currently about 340,000 Catch/Sample records in the database.

Recovery (RC)

When tags are removed from fish and decoded, the tag is linked to the specific location of catch, date of catch, fishery, and other related biological data. 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 collected by sampling agencies for submission to the RMPC on a yearly basis along with Catch/Sample data. Individual recovery records correspond to one observed (decoded) tag.

Each recovery record has an associated 'Status of Tag'. This status is coded as follows:

- '1' Tag read OK
- '2' No tag
- '3' Tag lost before read
- '4' Tag not readable
- '7' Unresolved discrepancy
- '8' Head not processed
- '9' Pseudo tag, blank wire

In addition to passing rigorous validation tests, the status '1' recoveries must match by tag code with a tagged release group. There are currently about 6 million status '1' recovery records in the database. Recoveries with a status other than '1' are not included in most RMIS reports. There are currently about 1.5 million non-status '1' recoveries in the database.

Catch-&-Effort (CE)

Catch effort is the amount of fish caught by a specified amount of effort. It can also be defined as the catch of fish, in numbers or in weight, taken by a defined unit of fishing effort. Typically, effort is a combination of gear type, gear size, and length of time gear is used. Catch per unit of effort is often used as a measurement of relative abundance for a particular fish. There are currently about 140,000 Catch & Effort records in the database.

Location (LC)

The geographic locations of release, sample, and specific recovery of fish are also assembled by specific location reporting agencies. Collectively, these are called Location data and are submitted to the RMPC 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 and a geographical reference to the location. Currently there are approximately 22,000 geographic locations referenced by the above classes of data (among a total of about 35,000 location codes maintained in the database).

The five types of locations are described as follows:

1. **Recovery Site:** Indicates as closely as possible the actual geographic place where a tagged fish was caught. They are usually specified within larger Catch Areas in the sampling stratum. This type of location is found only in Recovery data.
2. **Catch Area:** Corresponds to geographic areas where sampling occurred for a given fishery. They may encompass several recovery sites. This type of location is found in Catch/Sample and Catch & Effort data.
3. **Hatchery:** Specifies 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 Site:** Specifies the geographic release location of the release group. It may differ from the hatchery. This type of location is found only in Release data.
5. **Stock:** Differs 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 or if the stock was mixed, a composite of stream names. This type of location is found only in Release data.

Description (DD)

In addition to the above classes, the CWT database contains Description data (e.g. metadata) that is intended to help maintain a permanent centralized record of changes made over time to the data values in the database (i.e. among the 5 data classes). Descriptions are intended to indicate what data is new or what changes have occurred to the data itself since the last submission of a given data type. Description data are all publicly available on the following RMPC web page: [RMPC News & Data Status](#) (see § below).

Chapter 2 RMIS Elements, Definitions, and Setup

2.1 RMIS Web Site Elements

Figure 2: RMPC Home Page: <http://www.rmpc.org>

RMIS Home Page & Query Systems

RMIS is comprised of three principal Internet based reporting systems for public download of CWT and related datasets (see Figure 2). They are:

1. **RMIS Standard Reporting System (RSR)**
2. **RMIS Analysis Reporting System (RAR)**
3. **RMIS Catch-&-Effort Data Reporting System**

The **RMIS Standard Reporting System** is an application that allows the user to build a query, select, and optionally preview the result set row by row, and then run a formatted report of their choice using the result set. The report may then be returned to the browser, or sent to their email address. Data retrieval includes selection by location or by tag code as well as many other data elements.

All classes of data are available in user-customizable raw data download format. In addition, RMIS Standard Reporting has the following report formats available in either textual summary (with page headers) or textual detail (one report row per line) levels:

- Release reports by tag code or release id: 5 reports (detail)
- Release reports by adipose clip: 1 report (summary)
- Recovery reports by tag code: 18 reports (summary and detail)
- Recovery reports by tag list: 2 reports (summary and detail)
- Recovery reports by hatchery of release: 7 reports (summary and detail)
- Catch / Sample reports: 1 report (detail/raw)
- Location reports: 1 report (detail/raw).

The **RMIS Analysis Reporting System** was developed to facilitate the analysis of coastwide salmon recovery information in terms of actual geographic areas used for management of the various fisheries. It refers to a version of the CWT database that is summarized by tag code, "management-fishery" units, and age class of returning fish. RMIS Analysis allows the user to auto-generate and maintain lists of tag codes based on various criteria—such as morphological characteristics of the fish releases. RMIS Analysis also provides a means of organizing (grouping) tag codes and/or management-fisheries by various user-identified criteria and using the group definitions as units for aggregation in report output. RMIS Analysis Reporting has the following report formats available:

- CWT- based recovery reports: 9 reports (summary and detail)
- Management-fishery based recovery report: 1 report (summary).

In the following chapters, this document will provide usage instructions for the RMIS Standard and RMIS Analysis reporting systems (systems 1 & 2 above) as well as provide report explanations and examples.

There are no formatted reports available of Catch-&-Effort data (only detail/raw reports are available) so the **RMIS Catch-&-Effort Reporting System** (system 3 above) will not be described in this document. Please see the CWT specification document described above or contact the RMPC for specific information regarding Catch-&-Effort datasets.

News & Data Status Page

Data File	Dataset Descriptions	Dataset Load Dates
<u>RELEASES</u>	<u>Release</u>	<u>Release</u>
<u>RECOVERIES</u>	<u>Recovery</u>	<u>Recovery</u>
<u>CATCH/SAMPLES</u>	<u>Catch/Sample</u>	<u>Catch/Sample</u>
<u>LOCATIONS</u>	<u>Location</u>	<u>Location</u>
<u>CATCH & EFFORT</u>	<u>Catch & Effort</u>	<u>Catch & Effort</u>

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Figure 3: News & Data Status Page

This page of the web site includes (see Figure 3 and Figure 4):

- Status tables of all CWT metadata ('Descriptions') selectable by data class and reporting agency which allow user tracking and review of data update activity.
- Status tables showing all current data processing information from the RMPC including load date and number of records loaded into the database.
- Scrolling list of recent news developments regarding the RMPC computer system and the CWT database updates.

CWT metadata that has been provided by the Reporting Agencies can be obtained from these charts. For example, under the column 'Dataset Descriptions', the 'Recovery' chart is illustrated as follows:

Descriptions of Recovery Data																
Click on Cells for Additional Information																
From CWT Description Data files submitted to RMPC By Run Year and Reporting Agency as of Tue Jan 10 11:21:05 2012																
Table includes all agencies for which Recovery data is relevant.																
Process status: ■ = Partially validated ■ = Fully validated/not yet available ■ = Fully validated and available																
Submission Status: N = New R = Resubmitted																
File Status: I = Incomplete C = Complete																
Explanation: ? Help																
Year	ADFG	CDFG	CDFGK	CDFO	CRFC	FWS	IDFG	NIFC	NMFS	ODFW	QDNR	WDFW	YAKA	YTFP	Year	
2011	N/C															
2010	N/C	R/C		N/C			N/I	N/C	N/I							
2009	N/C	R/C		R/C			N/C	R/C	N/I							
2008	N/C	N/C		R/C			N/C	N/C	R/C							
2007	N/C	R/C	N/C	R/C			R/C	R/C	N/C							
2006	N/C	R/C	N/C	R/C			R/C	R/C	N/I							
2005	N/C	R/C	N/C	R/C			N/C	R/C	N/I							
2004	N/C	R/C	N/C	R/C			R/C	R/C	N/I							
2003	N/C	R/C	N/C	R/C			N/C	R/C	N/I							
2002	N/C	R/C	N/C	R/C			N/C	R/C	R/C							
2001	N/C	R/C		R/C	N/C		N/C	R/C	N/C							
2000	N/C	R/C		R/C	N/C		N/C	R/C	N/C	R/C	N/C					
1999	N/C			R/C			N/C	R/C								
1998	N/C			R/C			R/C	R/C	N/C	R/C	N/C	R/C				1998

Figure 4: Illustration of Data Status table and pop-up window showing metadata

Other Pages

The web site also includes an image gallery illustrating many aspects of the coastwide CWT field processes as well as a set of numerous CWT related publications available for download.

2.2 Definitions

The following concepts and terms (both general and CWT specific) are used throughout RMIS and this guide 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.

CSV Report : A report in text-based comma-separated-value (CSV) format. The first record of a CSV report contains comma-separated field names. 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 CWT Data Format Specification (§ 1.1).

CWT : The Coded-Wire Tag database. Contains the Release, Recovery, Catch/Sample, and Location data defined in CWT Data Format Specification (§ 1.1).

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 and/or that produce large amounts of output.

Geographic Narrowing Menus: A series of menus (applicable to certain fields) which allow for identifying RMIS Regions, RMIS Basins, or specific Location Codes by successively narrowing down your choices and finally choosing the value(s) for placement into the field.

HTM Report : A report in Hyper-Text Markup Language (HTML) format. HTM reports can be displayed as easily-viewable tables in a Web browser.

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

Pop-up Window : A window that opens 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 data-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.

RAR Navigation Menu: The list of all available Query Forms and Report output formats in the RMIS Analysis Reporting (RAR) system. This menu appears on the left-hand side of all RAR Query Forms.

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 PSMFC office that provides for the planning, organization, direction and control of the centralized CWT data repository at the direction of the Pacific Salmon Commission.

RSR Navigation Menu: The list of all available Query Forms in the RMIS Standard Reporting (RSR) system (see Figure 6). This menu appears on the left-hand side of all RSR Query Forms.

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 (see Figure 8).

2.3 RMIS Usage Setup

Login

The 3 RMIS reporting systems can all be accessed from the RMIS website home page (see Figure 2 above) by clicking on the desired reporting system. If RMIS Standard is chosen, the login screen will appear as shown here (Figure 5).

Please Login

Database Name
crep ▾

Email Address

Login

New RMIS User?

Please enter your email address and click **Login**. You will then be prompted for information to establish a new RMIS account.

Welcome to the Regional Mark Information System (RMIS)

The RMIS Standard Reporting system is the standard method of accessing data from the **Coded-Wire Tag (CWT)** database. This system allows the user to build a query, optionally preview the result set row by row, then run a familiar RMIS formatted report of their choice using the result set. The report may be displayed in the browser or delivered by email.

Choose Start Page:

- Tagged Releases** (Record Code T only)
- Non-Assoc. Releases** (Record Code N only)
- All Releases** (Tagged and Non-Assoc.)
- Adclipped Releases** (Tagged and Non-Assoc.)
- Related Releases** (DIT & Other related groups only)
- Recoveries By Tag Code** (Tag Status 1 only, limit 180 tags)
- Recoveries By Release Hatchery** (Tag Status 1 only)
- Recoveries By Tag List** (Tag Status 1-9, limit 180 tags)
- All Recoveries** (Tag Status 1-9, up to 1000 tags)
- Catch/Sample**
- Locations**
- User Guide**

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Figure 5: RSR Login Screen

Returning Users: To login, enter your email address and click on the Login button.

New Users: The first time you login you'll need to verify that you want to create a new account. At this point please enter in the following information:

1. Email Address (re-type)
2. Name
3. Organization
4. Phone Number

On subsequent logins your email address will be recognized as a returning user.

RMIS logins are based on browser sessions. 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.

Hardware and Software Requirements

RMIS should function on a variety of systems and web browsers, including the following:

1. Operating Systems: Linux, Windows (2000/Windows-7), Mac (OS X);
2. Web browsers: Firefox, Google Chrome, Internet Explorer, Opera;
3. Browser settings: JavaScript is required and session cookies must be enabled;
4. Screen resolution: 1024 by 768 pixels or higher.

Chapter 3 RMIS Standard: Introduction, & Navigation

From the RMIS Home Page clicking on the RMIS Standard Reporting icon leads to the RSR Login page (see above for login instructions). The contents of this page are determined by which database you chose. Here are the start pages available on the RSR Login page (see Figure 5 above):

1. **Tagged Releases (Record Code T only)** : Search & report release groups containing only coded-wire tagged fish
2. **Non-Associated Releases (Record Code N only)** : Search & report release groups not containing any coded-wire tagged fish
3. **All Releases (Tagged and Non-Assoc)** : Search & report all release groups regardless of whether they contain coded-wire tagged fish
4. **Adclipped Releases** : Search & report while comparing ad-clipped with un-clipped releases
5. **Related Releases** : Search & report based on double-index tag (DIT) & other related release groups
6. **Recoveries by Tag Code (Tag Status 1 only, limit 180 tags)** : Search & report on all fully-decoded (i.e. Tag Status '1') recoveries by specific tag codes or other release & recovery fields
7. **Recoveries by Hatchery (Tag Status 1 only)** : Search & report on all fully-decoded (i.e. Tag Status '1') recoveries by release hatchery or other release & recovery fields
8. **All Recoveries (Tag Status 1-9, limit 180 tags)** : Search & report on all recoveries in the database (including those with Tag Status other than '1')
9. **Recoveries by Tag List (Tag Status 1-9, up to 1000 tags)** : Search & report on all fully-decoded (i.e. Tag Status '1') recoveries by specific tag codes and you have a large number of tag codes for your search
10. **Catch/Sample** : Search & report on raw catch/sample records
11. **Location Codes** : Search & report on location records

From the RSR Login page clicking on Login button leads to the RSR Query Form. The navigation of these forms is described below.

3.1 RSR Navigation

Indicates reporting system in use

Indicates type of CWT data being queried

You are here: Home > RMIS Standard Reporting

Locations : Query Form

Help

Click here for detailed instructions. This icon indicates where help can be obtained throughout the RSR system.

Enter query criteria in boxes below and click on Retrieve button; Click on field names above boxes for help

Logged in
Database Name: crep
Email Address: <user email>

Logout

Navigation menu for choosing different RSR query forms

Releases
Tagged Releases
Non-Assoc. Releases
All Releases
Adclipped Releases
Related Releases

Recoveries
By Tag Code
By Release Hatchery
By Tag List
All Recoveries

Other
Catch/Sample Locations

Help
User Guide

Location Code Location Type Reporting Agency Name

State/ Province RMIS Region RMIS Basin

Retrieve Options: Params

Highlighted entry indicates which query form is now in use

Enter criteria in the query form, then click 'Retrieve' to see if any matching records are found

Figure 6: RSR Query Form illustration of navigation elements

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 (see Figure 6). The left-hand 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 up to three rows of fields that you can use to build your query. 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.

Chapter 4 RMIS Standard: Query Form Window

4.1 Key Fields & Data Restriction

Example criteria values entered for selecting Recoveries

You are here: Home > RMIS Standard Reporting

Recoveries by Tag Code : Query Form [Help](#)

Enter query criteria in boxes below and click on Retrieve button; Click on field names above boxes for help

Tag Code (key)	Tag Status	Species	Recovery Year (key)	Run Year (key)	Reporting Agency	Sampling Agency	Fishery (key)	Sample Type	Recorded Mark
051078 051079 051080 051081	1						23 54 50		
Recovery Location Name (key)		Recovery Location RMIS Region							
Recovery Location Code (key)									

At least one of these 'key' fields must be filled in with values in order to select data.

Logged in Database Name: crep Email Address: <user email>

Logout

Releases

- Tagged Releases
- Non-Assoc. Releases
- All Releases
- Adclipped Releases
- Related Releases

Recoveries

- By Tag Code
- By Release Hatchery
- By Tag List
- All Recoveries

Other

- Catch/Sample Locations

Help User Guide

Retrieve Options: Params

Figure 7: RSR Query Form illustration of field & criteria elements

Entering Codes

Each field in a query form consists of a name and a box. You can click on the name which will display a pop-up window for help in filling in the box, or you can type the desired criteria (values) directly into the box. In general you can type as many values as you want into each box, but each value must be on a separate line (Figure 7).

Key Fields

Some query forms (such as Recoveries by Tag Code shown in Figure 7) have 'key' fields. This means that the data table has indexes on these fields and in order to select data there must be at least one value entered in at least one of the key fields.

Wild-Card Searches

Releases : Query Form [? Help](#)

Enter query criteria in boxes below and click on Retrieve button; Click on field names above boxes for help

Record Code	Tag Code or Release ID	Tag Type	Species	Run	Brood Year	Last Release Date Year	Release Agency	Study Type	Release Stage	Rearing Type	Reporting Agency	Release Location State/Prov
T												
all	all	all	all	all	all	all	all	all	all	all	all	all
Release Location RMIS Region	Release Location Name	Hatchery Location Name		Stock Location Name		Mark Codes						
		TRASK%										
all	all	all	all	all	all	all	all	all	all	all	all	
Release Location RMIS Basin	Release Location Code	Hatchery Location Code		Stock Location Code								
all	all	all	all	all	all							

Retrieves **Options:** Params

In some fields, you may use the percent (%) sign to do pattern-matching searches for data rows.

Figure 8: RSR Query Form illustration of wild-card pattern matching

Data rows may be found when searching by location name when you don't know the exact spelling of the name. This is done using the pattern-matching character: '%'. For example, within the Tagged Releases query form, CWT release groups that begin with the string 'TRASK' may be selected by entering the string **TRASK%** into the field 'Hatchery Location Name' (see Figure 8). This locates data from both 'TRASK R HATCHERY' and 'TRASK R PONDS' facilities. This query retrieves about 243 CWT rows from the database. Pattern-matches can sometimes be used both before and after the search string. For example, '%COLUMBIA R%' entered into the field Release Location Name will match any rows of data where the Release Location explicitly indicates the Columbia River.

Geographic Narrowing Menus

Some query forms in the RSR system allow geographic data selection using a series of menus within a pop-up window. The user can simply type in the field values if known, or can use the geographic narrowing menus by clicking on the field header. The fields listed below have this capability -- allowing the user to choose from hydrologically defined domains, regions, and basins to fill in the desired criteria value(s):

- **Releases query forms:** Release Location RMIS Region, Release Location RMIS Basin, Release Location Name, Release Location Code, Hatchery Location Name, Hatchery Location Code, Stock Location Name, Stock Location Code
- **Locations query form:** RMIS Region, RMIS Basin

Geographic criteria values are then placed into the query form by narrowing down your choices through one or more of the following geographic divisions in the greater Pacific region:

- **RMIS Domain:** (see Figure 9: RSR Locations lookup step 1: choose domain)
- **RMIS Region:** (see Figure 10: RSR Locations lookup step 2: choose region)
- **RMIS Basin:** (see Figure 11: RSR Locations lookup step 3: choose basins)
- **Location Code/Name:** (see Figure 12: RSR Locations lookup step 4: choose locations)

All Releases : Query Form [Help](#)

Enter query criteria in boxes below and click on Retrieve button; Click on field names above boxes for help

Record Code	Tag Code or Release ID	Tag Type	Species	Run	Breed Year	Last Release Date Year	Release Agency	Study Type	Release Stage	Rearing Type	Reporting Agency	Release Location State/Prov
Release Location RMIS Region	Release Location Name	Hatchery Location Name		Stock Location Name								
Release Location RMIS Basin	Release Location Name											

Click here to look for hatcheries /facilities geographically by locating them in the domain, region, and basins in which they are located.

Example: In Step 1, we choose the RMIS Domain: WA/ Washington State (which has 11 RMIS Regions)

Help: Location - Mozilla Firefox http://www.rmpc.org/cgi-bin/querydb.mpl?Form=queryfrm.mpl&Table=all_releases&Version=4.1

All Releases 4.1: Hatchery location name

Location Type: 3 -- Hatchery location

Step 1: Choose one Domain

Domain	Domain Name	Regions
AK	Alaska	5
BC	British Columbia	9
CA	California	7
CR	Columbia River	5
OI	Other International	3
OR	Oregon	3
TR	Transboundary Rivers	5
WA	Washington	11
YR	Yukon River	3

Select a Domain from the menu, then click GO to continue. [Help](#)

Figure 9: RSR Locations lookup step 1: choose domain

Help: Location - Mozilla Firefox <http://www.rmpc.org/cgi-bin/querydb.mpl>

All Releases 4.1: Hatchery location name

Location Type: 3 -- Hatchery location

Step 2: Choose one Region

Region	Region Name	Basins
GRAY	Grays Harbor	3
HOOD	Hood Canal	4
JUAN	Strait of Juan de Fuca	3
MPS	Mid Puget Sound	5
NOWA	Northern Washington	4
NPS	Northern Puget Sound	4
NWC	Northern Washington Coast	3
SKAG	Skagit R	3
SPS	Southern Puget Sound	6
WAGN	Washington, general	3
WILP	Willapa Bay	4

Select a Region from the menu, then click GO to continue. [Help](#)

Example: In Step 2, we choose the RMIS Region: SPS (which has 6 RMIS Basins)

Figure 10: RSR Locations lookup step 2: choose region

Help: Location - Mozilla Firefox <http://www.rmpc.org/cgi-bin/querydb.mpl>

All Releases 4.1: Hatchery location name

Location Type: 3 -- Hatchery location

Region: SPS -- Southern Puget Sound

Step 3: Choose one or more Basins

Basin	Basin Name	Locations In Use
CHAM	Chambers Cr	32
DES	Deschutes R / WA	43
EKPS	East Kitsap Peninsula; S of Narrows	25
KENN	Kennedy Cr, Goldsborough Cr	13
NISQ	Nisqually R	12
SPSG	Southern Puget Sound; general	2

Click checkboxes to select Basins, then click GO to continue. [Help](#)

Important notice regarding Basin Codes: see Help!

Example: In Step 3, we choose the RMIS Basins: NISQ, SPSG (which have 12, and 2 hatcheries /facilities respectively)

Figure 11: RSR Locations lookup step 3: choose basins

Example: In Step 4, we choose two hatchery /facility locations, one from each of the 2 RMIS Basins chosen. Note that each hatchery /facility has the number of release groups (both CWT and untagged / unassociated groups) listed here.

All Releases 4.1: Hatchery location name

Location Type: 3 -- Hatchery location
Region: SPS -- Southern Puget Sound
Basins: NISQ;SPSG
Step 4: Choose one or more Locations

Location Code	Basin	Location Short Name	Total Releases	Tagged Releases
<input type="checkbox"/> 3F10513 1174331E	NISQ	CENTENNIAL ES(GRAHAM)	2	0
<input type="checkbox"/> 3F10513 110013CH	NISQ	CLEAR CREEK HATCHERY	91	56
<input type="checkbox"/> 3F10513 1172808E	NISQ	COLUMBIA CREST ES	4	0
<input type="checkbox"/> 3F10513 116005 H	NISQ	EATONVILLE EAGLES	37	0
<input type="checkbox"/> 3F10513 1174407E	NISQ	FRONTIER JHS(GRAHAM)	2	0
<input type="checkbox"/> 3F10513 116010 H	NISQ	FT LEWIS CLEAR CR	3	0
<input type="checkbox"/> 3F10513 1174297E	NISQ	GRAHAM ES (GRAHAM)	5	0
<input type="checkbox"/> 3F10513 110017AH	NISQ	KALAMA CR HATCHERY	255	58
<input checked="" type="checkbox"/> 3F10513 110324 H	NISQ	MCMILLISTER HATCHERY	134	14
<input type="checkbox"/> 3F10513 1174381E	NISQ	PIONEER VALLEY ES(SP	2	0
<input type="checkbox"/> 3F10513 1174227E	NISQ	ROCKY RIDGE ES(GRAHA	2	0
<input type="checkbox"/> 3F10513 110056 H	NISQ	SCHORNO REARING	39	0
<input type="checkbox"/> 3F10513 H05	SPSG	POND	12	0
<input type="checkbox"/> 3M114 H99	SPSG	RFG 5 SOUTH PUGET S	1	0
		S.PUGET SOUND ADULTS	10	10

GO

Click checkboxes to select Locations, then click GO to continue.  **Help**

Figure 12: RSR Locations lookup step 4: choose locations

All Releases : Query Form [Help](#)

Enter query criteria in boxes below and click on Retrieve button; Click on field names above boxes for help

Record Code	Tag Code or Release ID	Tan Type	Species	Run	Brood Year	Last Release Date Year	Release Agency	Study Type	Release Stage	Rearing Type	Reporting Agency	Release Location State/Prov
Release Location RMIS Region	Release Location Name											Stock Location
Release Location RMIS Basin	Release Location Code											Stock Location C

**Hatchery
Location Name**

MCALLISTER HATCHERY
S PUGET SOUND ADULTS

**Stock
Location**

**Stock
Location C**

Result of Steps 1 – 4 in this example: These 2 hatchery / facility names were placed into the Hatchery Location Name field.

Figure 13: RSR Locations lookup result

The above figures (Figure 9 to Figure 13) show how to select releases from specific hatcheries /facilities by using the geographic narrowing menus. Note that the location name(s) could also be typed into the box exactly as seen or could be found by pattern-matching (see Figure 8); however, these methods are subject to typing errors, etc. and are therefore somewhat less reliable than using the geographic narrowing menus. In the above example scenario, after placing the 2 values into the Hatchery Location Name field, the data can be selected by clicking the 'Retrieve' button (see Figure 6).

These geographic divisions (RMIS Domain / RMIS Region / RMIS Basin) are detailed in documents and maps found on the following RMPC web page: [RMIS Map Documents](#).

Note that the geographic narrowing menus are also available on Recoveries and Catch/Sample query forms; however, fully inclusive data selection cannot be assured on these query forms using these menus since some Recovery Site locations do not have values for RMIS Region and RMIS Basin codes. This is the case because RMIS Domain, RMIS Region, and RMIS Basin codes are only formally defined for Release Site, Hatchery/Facility, and Stock locations.

Chapter 5 RMIS Standard: Query Results Window

After clicking 'Retrieve' the RSR system will attempt to retrieve the rows from the database and go to the Query Results window. There could be some conditions in which the RSR system cannot select the data rows and go to the Query Results window. These conditions include:

- ..Warning. Your `<queryform>` query didn't retrieve any rows. Please go back to the Query form and change your query.
 - ..Warning. Your `<queryform>` query must include a value for at least one key column. Please go back to the Query form and change your query.
 - ..Warning. Your `<queryform>` query retrieved too many rows (`<# rows>`). Please go back to the Query form and change your query.

If rows are found for the query and the result is reportable, then the RSR system will open the Query Results window -- a new window with the elements shown in Figure 14. The sections of this window are described below.

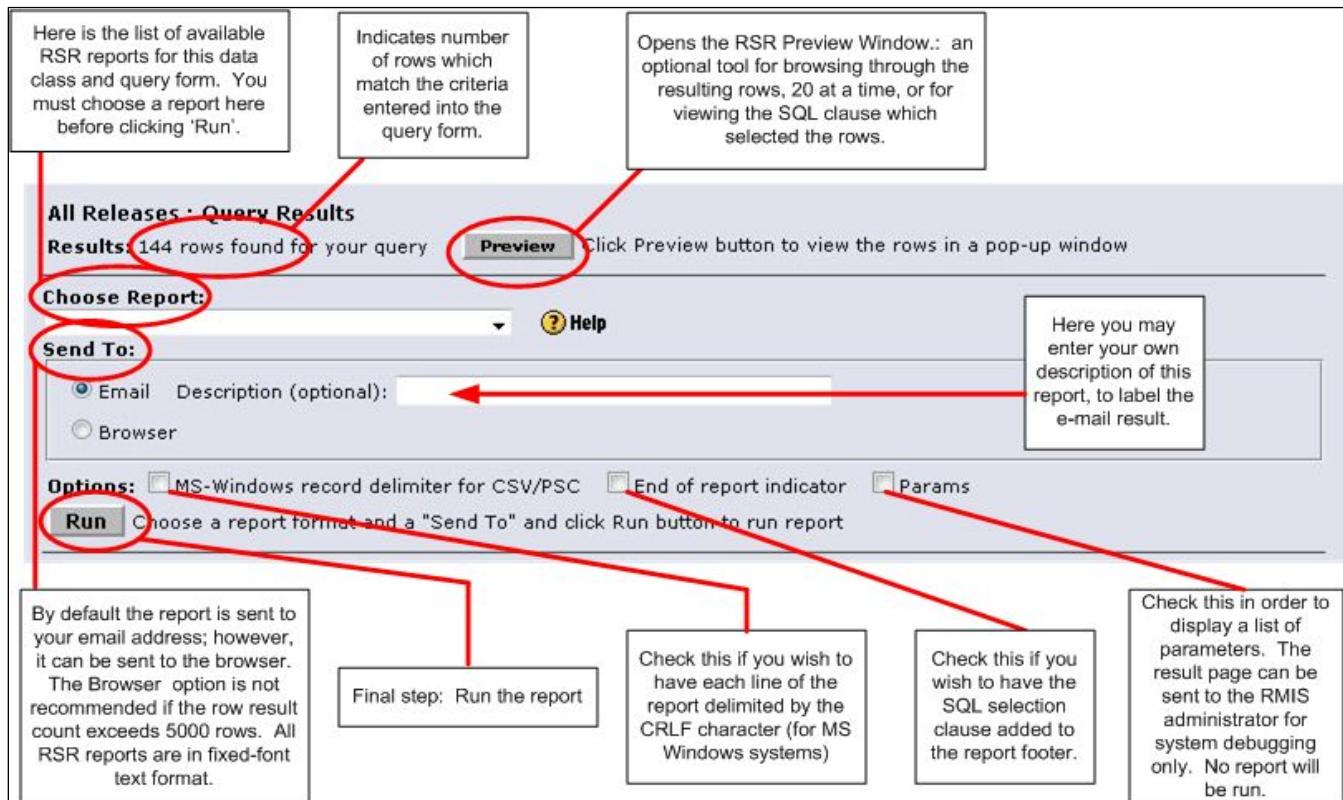


Figure 14: RSR Query Result window illustration

Results & Preview section

The Query Results window begins by showing how many data rows were found based on the specific criteria entered on the query form. You may go directly to the 'Choose Report' section (see below) or you may wish to preview the data first. The **Preview** button opens a new window which displays rows of data in sets of 20 rows at a time so you can inspect the data retrieved by your query prior to running a report. The preview window is shown in Figure 15.

All Releases 4.1: Preview -- 144 rows found for your query														
Preview of rows 1-20 ? Help														
Row #	Record Code	Tag Code or Release ID	Tag Type	Species	Run	Brood Year	Last Release Date Year	Release Agency	Study Type	Release Stage	Rearing Type	Reporting Agency	Release Location State/Prov	Release Location RMIS Region
1	N	I04020027240	1	3	2000	2002	WDFW	S	H	WDFW	WA	SPS		
2	N	I04020027241	1	3	2000	2002	WDFW	S	H	WDFW	WA	SPS		
3	N	I04020027499	1	3	2001	2002	WDFW	S	H	WDFW	WA	SPS		
4	N	I04980013201	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
5	N	I04980013202	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
6	N	I04980013203	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
7	N	I04980013205	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
8	N	I04980013206	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
9	N	I04980013018	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
10	N	I04980013019	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
11	N	I04980013020	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
12	N	I04980013021	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
13	N	I04980013200	1	3	1997	1998	WDFW	S	H	WDFW	WA	SPS		
14	N	I04990016369	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		
15	N	I04990016370	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		
16	N	I04990016371	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		
17	N	I04990016359	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		
18	N	I04990016360	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		
19	N	I04990016362	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		
20	N	I04990016364	1	3	1998	1999	WDFW	S	H	WDFW	WA	SPS		

----- [Next 20 rows >>](#) [Show SQL](#) [Close Preview](#)

Figure 15: RSR Row Preview table illustration

If the data in the Preview table is not what you expected, click the Back button to return to the Query Form and change your query.

When you are satisfied that the data in the Preview table looks correct, close the preview window and choose your desired report format and delivery method, then click the **Run** button.

These elements are shown in Figure 14.

Choose Report section

The pop-up menu in this form-section allows you to choose the output format for your report. Some reports have a row-limit specified. (I.e. the available reports shown here are determined in part by the number of rows selected). For example, if you are running a Recoveries-by-Tagcode report and the number of rows selected is extremely large (e.g. more than 100,000 rows) then certain reports (such as TS3) may not appear as an option because they have a very long page format and produce numerous lines for each row found. However, the raw data listing reports (CSV, HTM, etc.) are nearly always available. If you choose Comma-Separated Values (CSV) or HTML table (HTM) format, you will need to go down to the next section (see below) and choose at least one output column before running the report.

These elements are shown in Figure 14.

Send To & Options sections

Send To: These two radio buttons allow you to choose the delivery method for your report. Email is checked by default, which means the report will be delivered as an FTP link sent to you by email. Due to limitations in the browser and server software, Send To: Browser is only appropriate for short reports. For reports in which you expect large amounts of data (e.g. more than about 5000 rows), it is better to check the Email button option.

Options: The CR-LF checkbox uses both carriage return & line feed characters as the record delimiter for CSV & PSC reports rather than the default record delimiter which is line feed only. The End of report checkbox adds the text of the SQL select clause after the last record in the report. If you check the Params checkbox, the system will not run a report, but will instead display only parameter and SQL information about the query.

Then, click on the **Run** button to run your report. NOTE: If you chose Send To: Browser, your web browser will have to wait until the report is done running; however, if you chose Send To: Email, you will get a confirmation message and then you can continue working in your web browser without having to wait for the report to complete.

These elements are shown in Figure 14.

CSV / HTM Data Field Chooser section

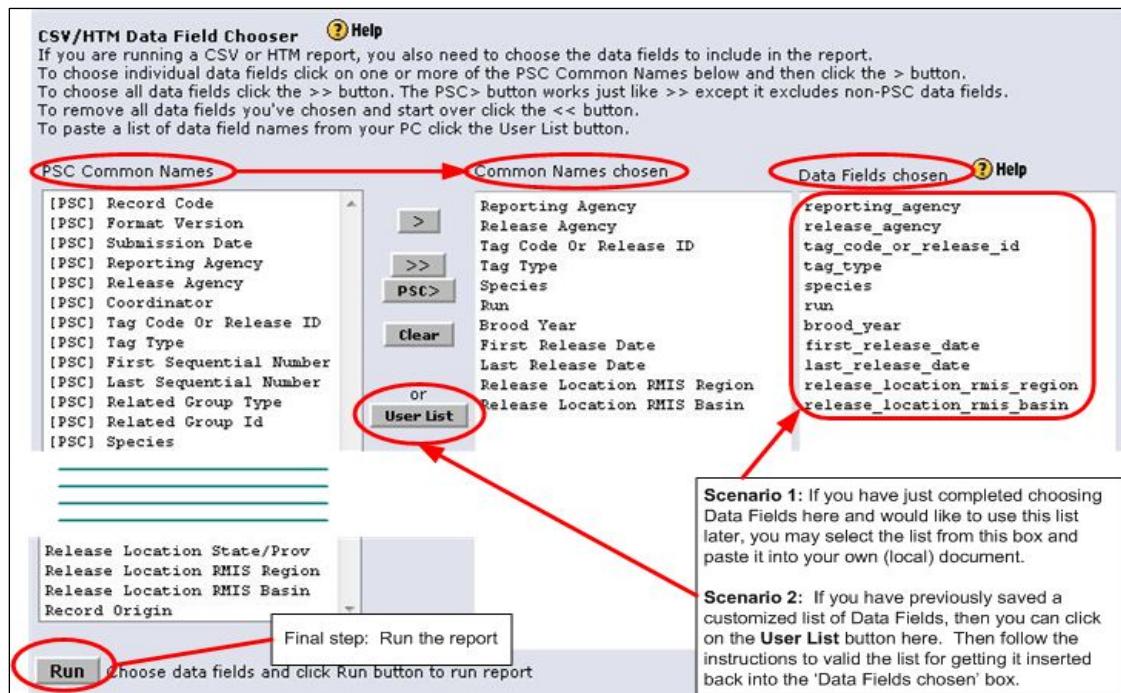


Figure 16: RSR CSV/HTM Data Field Chooser illustration

You must choose the "Comma-Separated Values custom file (CSV)" or the "HTML custom table (HTM)" report format in order to use these data field names to generate a customized report.

Click on one or more PSC Common Names in the left-hand box. You may click and drag to select multiple adjacent PSC Common Names, or you may Ctrl-click to select multiple non-adjacent Names. Then click on the > button which will add corresponding data field names from the CWT database to the right-hand box.

To select all of the Names in the left-hand box, click on the >> button and all of the corresponding data field names from the CWT database will be added to the right-hand box. The **PSC>** button works just like the >> button except that it selects only those Names that appear in the PSC Specification for the currently selected table (i.e. Names prefixed with "[PSC]").

If you make a mistake by choosing the wrong data fields, you can correct the mistake by clicking on the **Clear** button which will clear out the right-hand box so you can re-do the field selection.

These elements are shown in Figure 16.

Customized User List

If you have built a customized list of Data Fields in the 'Data Fields chosen' box and would like to use the list later, you may select the list from this box and paste it into your own (local) document. Save the document for later use. Then when running a report later on, you may use this customized list of Data Fields by clicking on the **User List** button. After clicking on **User List**, follow the instructions to validate the list for getting the list inserted back into the 'Data Fields chosen' box. This procedure is illustrated as Scenario 1 and Scenario 2 in Figure 16 above.

Then, after you have chosen all your data fields run your report by clicking the **Run** button (see Figure 14 or Figure 16).

Chapter 6 RMIS Standard: Report Examples

RMIS Reports can be run from the Query Results Window after rows of data have been selected (see Figure 14). The set of available reports is determined by the Query Form initially chosen for selecting data (see Figure 6).

6.1 Release Reports

General Release Reports & Downloading

If you selected one of these three Query Forms in the **--Releases--** section of the RSR Navigation Menu:

- Tagged Releases
- Non-Assoc. Releases
- All Releases

then you may have up to nine (9) report formats available to run:

- RMPC Release book, side A (RBA)
- RMPC Release book, side B (RBB)
- PSC 4.1 Data Exchange format (PRL)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM)
- Tag List (RTL) for copy/paste to new query
- Releases with Zero Rec. By Tag Code (RZ1)
- Releases with Zero Rec. By Hatchery (RZ2)
- CWT & Total Released By Year (RTR).

These reports are described and illustrated as follows:

RMPC RELEASE BOOK, SIDE A (RBA)

This report lists the most commonly used columns from the Releases data file (including numbers of fish released). Report characteristics:

- tabular format
- does not break down or aggregate data results
- sorts by column: Tag Code or Release Id.

Example output listing:

PAGE 1A											14:52:15	11/08/2011	
Tag Code or. Release ID..	Run. Typ	Spec Agy	BdYr	Rel.	Hatchery	Location...	Release	Location....	First. Release	Last. Release	CWT....	Loss	Non-CWT
									Mrk	Cnt	Rate	Mrk	Cnt
042222	0	Spri Chin	1981	ADFG	DEER MOUNTAIN	KETCHIKAN CR	101-47		830516	830516	8,341	0.022	188
042244	0	Coho	1981	ADFG	SNETTISHAM	INDIAN LK	111-33		830826	830826	7,164	0.219	11,836
042255	0	Spri Chin	1982	SSRA	WHITMAN LAKE	NEETS BAY	101-90		840601	840601	20,063	0.012	50,593
044422	0	Fall Coho	1993	ADFG	MARX CREEK	MARX CR	101-15		950316	950529	686	0.0186	13
051122	0	Fall Chin	1981	FWS	QUINAULT NFH -COOK C	COOK CR	21.0429		830503	830503	27,545	0.033	27,705
052222	0	Fall Chin	1989	FWS	ABERNATHY SCDC HATCH	ABERNATHY CR	25.0297		900329	900518	22,241	0.0838	863,661
052233	0	Wint Sthd	1989	FWS	EAGLE CR NFH	EAGLE CR (CLACKAMAS)			900425	900425	21,027	0.0659	1,483
052244	0	Spri Chin	1989	FWS	WARM SPRINGS NFH	WARM SPRINGS R			900926	910417	49,883	0.03	1,542
052255	0	Coho	1988	FWS	QUILCENE NFH	BIG QUILCENE	17.0012		900503	900503	26,109	0.01	140,117
054422	0	Fall Chin	1999	FWS	SPRING CR NFH	SPRING CR	29.0159		000420	000420	66,303	0.1282	2,084,195
064422	12	Fall Chin	2000	CDFG	MERCED R FISH FACIL	MERCED R FISH FACIL			010508	010508	24,722	0.019	479
071122	0	Spri Chin	1994	ODFW	CEDC YOUNGS BAY NET	YOUNGS R & BAY			960229	960229	51,737	0.019	81,780
072211	0	Spri Chin	1979	ODFW	COLE RIVERS HATCHERY	ROGUE R 4			801211	801212	29,811	0.009	65,861
072222	0	Spri Chin	1979	ODFW	MCKENZIE HATCHERY	MCKENZIE R 1			810316	810316	36,005	0.072	2,793
072233	0	Late Chin	1979	ODFW	FALL CR HATCHERY	FALL CR (ALSEA R)			801025	801025	25,214	0.012	306
072244	0	Fall Chin	1979	ODFW	ELK R HATCHERY	ELK R			801025	801025	26,173	0.014	372
072255	0	Coho	1979	ODFW	SANDY HATCHERY	CEDAR CR #2 (SANDY R			810501	810501	27,742	0.025	158,162
073322	0	Chin	1984	ODFW	BONNEVILLE HATCHERY	TANNER CR (BNVILLE)			850513	850513	79,162	0.039	146,974
074422	9	Coho	1985	ODFW	TRASK R HATCHERY	TRASK R			870416	870416	27,118	0.018	150,180
082211	0	Fall Chin	1982	CDF0	H-Quinsam River H	R-Campbell Est			8304	830421	11,666	0.0201	239

RMPC RELEASE BOOK, SIDE B (RBB)

This report lists some additional columns from the Releases data file that are not included in the RBA report. Report characteristics:

- tabular format
- does not break down or aggregate data results
- sorts by column: Tag Code or Release Id.

Example output listing:

Tag Code or. Tag Ct. T.L. Weight Length Rear Rel.. Rel. St. Co- Stock Location..... Comments.....											15:33:43 11/08/2011		
Release ID..	Typ	Mhd	Days	(gm)	(mm)	Type	Stage	Type	Int	ord			
042222	0		107	17.70		H	Smolt		01		KETCHIKAN CR		
042244	0		6		85	H	Unkn	E	01		SNETTISHAM+SPEEL		
042255	0		45	47.60		H	Unkn	P	01		LPW (UNUK R)		
044422	0		0			H	Smolt	B	N	01	MARX CR 101-15		
051122	0		34	64.86		H	Smolt	K	N	07	COOK CR	21.0429	
052222	0	W	36	6.06		H	Finlg	E	N	07	ABERNATHY CR	25.0297	
052233	0	W	108	41.46		H	Smolt	E	N	07	CLACKAMAS R	EARLY	
052244	0	B	173	32.89		H	Smolt	B	N	07	WARM SPRINGS R		
052255	0	W	42	20.45		H	Smolt	P	N	07	BIG QUILCENE	17.0012 QUIL000061	
054422	0	B	32	6.71	95	H	Finlg	K	N	07	ABERNATHY CR	25.0297 SC 62 Columbia River	Spring Creek NFH
064422	12		54	6.74	83	H	Finlg	E	N	08	MERCED RIVER	MERCED R. SURVIVAL TEST.	
071122	0	W	34	41.69		H	Smolt	B	05		SANTIAM R S FK	NET PEN STUDY FROM MCKENZIE	
072211	0		170	58.68		H	Unkn	P	05		COLE RIVERS HATCHERY		
072222	0		160	47.59		H	Unkn	E	05		MCKENZIE HATCHERY		
072233	0		103	38.67		H	Unkn	P	05		FALL CR (ALSEA R)		
072244	0		30	40.86		H	Unkn	P	05		ELK R (ELK R HT)		
072255	0		172	23.62		H	Unkn	P	05		SANDY R (SANDY HT)		
073322	0	W	20	7.48		H	Unkn	E	05		TANNER CR (BNVILLE)		
074422	9	W	68	40.03		H	Unkn	P	05		TRASK R (TRASK HT)		
082211	0		5	3.60		H	Smolt	E	N	03	S-Quinsam R	ESTUARY STUDY - ESTUARY RELEASE	

PSC 4.1 DATA EXCHANGE FORMAT (PRL)

This report is a fixed raw data listing of columns that correspond exactly to the Pacific Salmon Commission data exchange format for Release data. See "PSC Format Specification" document, Ch. 2 (referenced in §1.1).

Example output listing:

record_code,format_version,submission_date,reporting_agency,release_agency,coordinator,tag_code_or_release_id,tag_type,first_sequential_number,last_sequential_number,related_group_type,related_group_id,species,run,brood_year,first_release_date,last_release_date,release_location_code,hatchery_location_code,stock_location_code,release_stage,rearing_type,study_type,release_strategy,avg_weight,avg_length,study_integrity,cwt_1st_mark,cwt_1st_mark_count,cwt_2nd_mark,cwt_2nd_mark_count,non_cwt_1st_mark,non_cwt_1st_mark_count,non_cwt_2nd_mark,non_cwt_2nd_mark_count,counting_method,tag_loss_rate,tag_loss_days,tag_loss_sample_size,tag_reused,comme

"N", "4.1", "20020328", "NIFC", "SUQ", "14", "!14199800107", "5", "3", "1997", "19980512", "19980512", "3F10510 150298 R", "3F10510 150298 H", "3F10510 150298 S", "F", "H", "P", "FR", "1.22", "0", "N", "0000", "615952", "B", "150298 H", "3F10510 150298 S", "F", "H", "P", "FR", "0.52", "0", "N", "0000", "131343", "B", "150298 H", "3F10510 150298 S", "F", "H", "P", "FR", "0.52", "0", "N", "0000", "131343", "B", "150298 H", "3F10510 150298 S", "F", "H", "P", "FR", "0.52", "0", "N", "0000", "131343", "B", "150298 H", "3F10510 150298 S", "E", "H", "V0", "0.38", "N", "0000", "490900", "B", "EGG BOX RELEASE" "N", "4.1", "20081106", "WDFW", "WDFW", "04", "04710025808", "2", "3", "1970", "19710422", "19710422", "3F42001 260002 R", "3F42001 270017 H", "3F42001 270017 S", "G", "H", "1.18", "0000", "285000", "B", "270017 H", "3F42001 270002 S", "G", "H", "5.66", "0000", "978000", "SURPLUS COHO." "T", "4.1", "20110617", "WDFW", "WDFW", "04", "635694", "12", "1", "3", "2010", "20110601", "20110609", "3F42001 260002 R", "3F42001 260002 S", "S", "M", "P", "5.84", "78", "0000", "82047", "Bo. Mix rel. by COWLITZ SALMON HATCH" "T", "4.1", "20110617", "WDFW", "WDFW", "04", "635576", "13", "2", "7", "2009", "20110427", "20110502", "3F42001 260002 R", "3F42001 260002 S", "S", "W", "29.52", "136", "0000", "823183", "0000", "4549", "Bo. W rel. by COWLITZ SALMON HATCH" "T", "4.1", "20110617", "WDFW", "WDFW", "04", "635389", "13", "2", "7", "2009", "20110427", "20110502", "3F42001 260002 R", "3F42001 260002 S", "S", "W", "P", "29.84", "138", "0000", "251270", "Bo. W rel. by COWLITZ SALMON HATCH"

COMMA-SEPARATED VALUES CUSTOM FILE (CSV)

NOTE: This report requires that you choose your own list of **--Releases--** columns (see Figure 16).

This report is simply a raw data listing of columns that you can customize by arranging in any order desired. It is generally intended for import into a spreadsheet program for further manipulation. Report characteristics:

- does not break down or aggregate data results
- has no particular sort order.

Example output listing:

```
tag_code_or_release_id,reporting_agency,tag_type,species,brood_year,first_release_date,rear ing_type,release_strategy,release_loca
tion_name,cwt_1st_mark,cwt_1st_mark_count,cwt_2nd_mark,cwt_2nd_mark_count,comments
"!05NT9020","ODFW",,"3","2007","20070602","H","FR","ROWLAND CR (COQUILLE R S",,,,"FRY RELEASE V0 1190"
"!05NT9062","ODFW",,"3","2006","20060611","H","FR","ROWLAND CR (COQUILLE R S",,,,"FRY RELEASE V01173 COQUILLE HS"
"635176","WDFW",,"13","2","2008","20100428","W",,"COWLITZ R 26.0002",,,"5000",,"936291",,,,
"635286","WDFW",,"12","1","2009","20100610","M",,"COWLITZ R 26.0002",,,"0000",,"197510",,,,
"634979","WDFW",,"12","2","2007","20090402","W",,"COWLITZ R @ MAYFIELD",,,"0000",,"11362",,,,"COHO WILDSTOCK"
"634983","WDFW",,"12","2","2007","20090402","W",,"COWLITZ R @ MAYFIELD",,,"0000",,"11398",,,,"COHO WILDSTOCK"
"634984","WDFW",,"12","2","2007","20090630","W",,"COWLITZ R @ MAYFIELD",,,"0000",,"4243",,,,"COHO WILDSTOCK"
"!04970009259","WDFW",,"8","1996","19970509","H",,"HORSESHOE LK (COWL)",,,,"THESE WERE EXTRA CUTTHROAT"
"!04970009261","WDFW",,"8","1996","19970529","H",,"HORSESHOE LK (COWL)",,,,"THESE WERE EXTRA CUTTHROAT"
"!04070045591","WDFW",,"8","2006","20070415","H",,"COWLITZ R 26.0002",,,,
"!04060042811","WDFW",,"8","2006","20060831","H",,"COWEEMAN LK (COWL)",,,,
"!04980014495","WDFW",,"8","1998","19981020","H",,"LK MERWIN (COWL)",,,,"EXCESS TO PROGRAM."
"!04980014513","WDFW",,"8","1998","19981026","H",,"ROWLAND LK (KLIC)",,,,"EXTRA 98 BROOD."
```

HTML CUSTOM TABLE (HTM)

NOTE: This report requires that you choose your own list of **--Releases--** columns (see Figure 16).

This report is simply a raw data listing of columns that you can customize by arranging in any order desired. The columns are placed into an HTML formatted table for viewing in an Internet browser. It is generally intended only for viewing in an Internet browser. Report characteristics:

- does not break down or aggregate data results
- has no particular sort order.

Example output listing:

You are here: Home > RMIS Standard Reporting > Query Results > Report HTM											
tag_code_or_release_id	reporting_agency	tag_type	species	brood_year	first_release_date	rearing_type	release_location_name	cwt_1st_mark	cwt_1st_mark_count	comments	
I04060042811	WDFW		8	2006	20060831	H	COWEEMAN LK (COWL)				
I04070045591	WDFW		8	2006	20070415	H	COWLITZ R 26.0002				
I04970009259	WDFW		8	1996	19970509	H	HORSESHOE LK (COWL)			THESE WERE EXTRA CUTTHROAT	
I04970009261	WDFW		8	1996	19970529	H	HORSESHOE LK (COWL)			THESE WERE EXTRA CUTTHROAT	
I04980014495	WDFW		8	1998	19981020	H	LK MERWIN (COWL)			EXCESS TO PROGRAM.	
I04980014513	WDFW		8	1998	19981026	H	ROWLAND LK (KLIC)			EXTRA 98 BROOD.	
I05NT9020	ODFW		3	2007	20070602	H	ROWLAND CR (COQUILLE R S)			FRY RELEASE VO 1190	
I05NT9062	ODFW		3	2006	20060611	H	ROWLAND CR (COQUILLE R S)			FRY RELEASE VO1173 COQUILLE HS	
634979	WDFW	12	2	2007	20090402	W	COWLITZ R @ MAYFIELD	0000	11362	COHO WILDSTOCK	
634983	WDFW	12	2	2007	20090402	W	COWLITZ R @ MAYFIELD	0000	11398	COHO WILDSTOCK	
634984	WDFW	12	2	2007	20090630	W	COWLITZ R @ MAYFIELD	0000	4243	COHO WILDSTOCK	
635176	WDFW	13	2	2008	20100428	W	COWLITZ R 26.0002	5000	936291		
635286	WDFW	12	1	2009	20100610	M	COWLITZ R 26.0002	0000	197510		

TAG LIST (RTL) FOR COPY/PASTE TO NEW QUERY

This report simply 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. It is generally used to select Recoveries when only certain Release criteria are known and a tag code list has not yet been obtained for insert into a Recoveries by Tag Code (see Figure 7 above) or Recoveries by Tag-List query form.

RELEASES WITH ZERO REC. BY TAG CODE (RZ1)

This report lists release groups based on the query entered which have zero recoveries (i.e. groups for which no recoveries have occurred). It is applicable to the Tagged Releases query form. Report characteristics:

- does not break down or aggregate data results
- sorts by column: Tag Code.

Example output listing:

14:23:36 12/05/2011	Regional Mark Information System					PAGE 1
REPORT: RZ1	RELEASES WITH ZERO RECOVERIES					
BY TAG CODE						
Tag Code	Rel.	Hatchery	Spec	1st	Last	Release
	Agcy	Location Name		Rel.	Rel.	Location Name
024339*1	CDF0		Coho	1986	1986	R-Sheslay R
041340	ADFG	SNETTISHAM	Coho	1987	1988	TWIN LKS 111-40
042422	ADFG	JERRY MYERS	Coho	1986	1986	TAIYA INLET 115-34
065101	CDFG	WARM SPRINGS HATCHERY	Coho	1985	1985	WARM SPRINGS HATCHERY
065102	CDFG	WARM SPRINGS HATCHERY	Coho	1985	1985	WARM SPRINGS HATCHERY
B40003	ADFG	TRAIL LAKES	Coho	1985	1985	SIX MILE CR 247-60
B40004*2	ADFG	TRAIL LAKES	Coho	1985	1985	SIX MILE CR 247-60
B40600	NSRA	MEDVEJIE CIF	Coho	1986	1986	FINGER LK 109-10
B40700	ADFG	TRAIL LAKES	Coho	1985	1985	TERN LK 244-30
B40701	ADFG	TRAIL LAKES	Coho	1985	1985	QUARTZ CR 244-30
B41509	ADFG	BIG LAKE	Coho	1985	1985	WASILLA LK 247-50
End of report						
The query criteria used to produce this report was:						
WHERE record_code = 'T'						
AND species = '2'						
AND brood_year = 1984						

RELEASES WITH ZERO REC. BY HATCHERY (RZ2)

This report lists release groups based on the query entered which have zero recoveries (i.e. groups for which no recoveries have occurred). It is similar to the RZ1 report (described above) except that it is sorts by different columns. Report characteristics:

- does not break down or aggregate data results
- sorts by columns: Release Agency, Hatchery Location Name.

Example output listing:

14:34:08 12/05/2011	Regional Mark Information System					PAGE 1
REPORT: RZ2	RELEASES WITH ZERO RECOVERIES					
BY HATCHERY						
Rel.	Hatchery	Spec	1st	Last	Release	Tag Code
Agcy	Location Name		Rel.	Rel.	Location Name	
ADFG	BIG LAKE	Coho	1985	1985	WASILLA LK 247-50	B41509
ADFG	JERRY MYERS	Coho	1986	1986	TAIYA INLET 115-34	042422
ADFG	SNETTISHAM	Coho	1987	1988	TWIN LKS 111-40	041340
ADFG	TRAIL LAKES	Coho	1985	1985	TERN LK 244-30	B40700
ADFG	TRAIL LAKES	Coho	1985	1985	SIX MILE CR 247-60	B40003
ADFG	TRAIL LAKES	Coho	1985	1985	SIX MILE CR 247-60	B40004*2
ADFG	TRAIL LAKES	Coho	1985	1985	QUARTZ CR 244-30	B40701
CDFG	WARM SPRINGS HATCHERY	Coho	1985	1985	WARM SPRINGS HATCHERY	065102
CDFG	WARM SPRINGS HATCHERY	Coho	1985	1985	WARM SPRINGS HATCHERY	065101
CDF0		Coho	1986	1986	R-Sheslay R	024339*1
NSRA	MEDVEJIE CIF	Coho	1986	1986	FINGER LK 109-10	B40600
End of report						
The query criteria used to produce this report was:						
WHERE record_code = 'T'						
AND species = '2'						
AND brood_year = 1984						

CWT & TOTAL RELEASED BY YEAR (RTR)

This report provides an aggregate summary in two columns showing total CWT-only fish released, and all fish released. It also provides a subtotal for each Release Year and Species. Report characteristics:

- aggregates by columns: Release Year, Species
- sorts by columns: Species, Release Year, State/Province.

Example output listing:

14:38:36 12/05/2011		Regional Mark Information System			PAGE 1	
REPORT: RTR		CWT & TOTAL RELEASED BY YEAR				
Species	Name	Release Year	State	CWT Released	Total Released	
Coho		2003	NA	109091	553625	
Coho		2003	OR	48758	505400	
Coho		2003	WA	898349	2110151	
				-----	-----	
Coho		2003 subtotal		1056198	3169176	
Coho		2004	OR	46629	557016	
Coho		2004	WA	946179	2511111	
				-----	-----	
Coho		2004 subtotal		992808	3068127	
				=====	=====	
Coho		TOTAL		2049006	6237303	
Steelhead		2003	CA	159207	166580	
Steelhead		2003	ID	184042	1990668	
Steelhead		2003	WA	207761	381906	
				-----	-----	
Steelhead		2003 subtotal		551010	2539154	
Steelhead		2004	CA	121789	127265	
Steelhead		2004	ID	214619	1957510	
Steelhead		2004	WA	196719	409882	
				-----	-----	
Steelhead		2004 subtotal		533127	2494657	
				=====	=====	
Steelhead		TOTAL		1084137	5033811	

Adclipped-Release Reports

If you selected Query Form Adclipped Releases in the **--Releases--** section of the RSR Navigation Menu then you may have up to three (3) report formats available to run:

- Ad-clipped Releases Summary (AS1)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM).

The CSV and HTM reports are described in the section above. The AS1 report is described and illustrated as follows:

AD-CLIPPED RELEASES SUMMARY (AS1)

This report provides an aggregate summary of ad-clipped and unclipped releases in 6 columns including:

- CWT-tagged & Ad-clipped
- CWT-tagged & Unclipped
- Non-CWT-tagged & Ad-clipped
- Non-CWT-tagged & Unclipped
- Non-CWT-tagged & Unknown clip status
- Totals column.

It also provides columnar subtotals and a grand total. Report characteristics:

- aggregates by columns: Species, Brood Year, State/Province, Release Year, RMIS Region, RMIS Basin, Hatchery/Facility
- sorts by columns: Species, Brood Year, Release Year.

Example output listing:

15:22:51 12/05/2011	Regional Mark Information System	PAGE 1			
REPORT: AS1	AD-CLIPPED RELEASES SUMMARY				
SPECIES: Chinook	BROOD YEAR: 2007	RELEASE YEAR: 2008			
S/P REGION BASIN HATCHERY/FACILITY	----- CWT TAGGED -----	----- NON-CWT -----	TOTAL		
	AD-CLIPPED UNCLIPPED	AD-CLIPPED UNCLIPPED	UNKNOWN		
WA CECR WIND LTL WHITE SALMON NFH	199665 199740	1603155 0	0 0	2002560	
WA CECR WIND SPRING CR NFH	445962 445588	14002310 5410	0 0	14899270	
15:22:51 12/05/2011	Regional Mark Information System	PAGE 2			
REPORT: AS1	AD-CLIPPED RELEASES SUMMARY				
SPECIES: Chinook	BROOD YEAR: 2007	RELEASE YEAR: 2009			
S/P REGION BASIN HATCHERY/FACILITY	----- CWT TAGGED -----	----- NON-CWT -----	TOTAL		
	AD-CLIPPED UNCLIPPED	AD-CLIPPED UNCLIPPED	UNKNOWN		
OR CECR DESC WARM SPRINGS NFH	577289 0	3598 0	0 0	580887	
WA CECR WIND CARSON NFH	71613 0	1144585 0	0 0	1216198	
WA CECR WIND LTL WHITE SALMON NFH	71221 0	519542 0	0 0	590763	
WA CECR WIND WILLARD NFH	75394 0	349175 0	0 0	424569	
15:22:51 12/05/2011	Regional Mark Information System	PAGE 3			
REPORT: AS1	AD-CLIPPED RELEASES SUMMARY				
SPECIES: Chinook	BROOD YEAR: 2008	RELEASE YEAR: 2009			
S/P REGION BASIN HATCHERY/FACILITY	----- CWT TAGGED -----	----- NON-CWT -----	TOTAL		
	AD-CLIPPED UNCLIPPED	AD-CLIPPED UNCLIPPED	UNKNOWN		
WA CECR WIND LTL WHITE SALMON NFH	511501 197857	5828541 1938	0 0	6539837	
WA CECR WIND SPRING CR NFH	359893 439989	10513169 94	0 0	11313145	
15:22:51 12/05/2011	Regional Mark Information System	PAGE 4			
REPORT: AS1	AD-CLIPPED RELEASES SUMMARY				
SPECIES: Chinook	BROOD YEAR: 2008	RELEASE YEAR: 2010			
S/P REGION BASIN HATCHERY/FACILITY	----- CWT TAGGED -----	----- NON-CWT -----	TOTAL		
	AD-CLIPPED UNCLIPPED	AD-CLIPPED UNCLIPPED	UNKNOWN		
OR CECR DESC WARM SPRINGS NFH	699847 0	5394 0	0 0	705241	
WA CECR WIND CARSON NFH	74183 0	1204309 0	0 0	1278492	
WA CECR WIND LTL WHITE SALMON NFH	72614 0	512189 0	0 0	584803	
WA CECR WIND WILLARD NFH	74970 0	350571 0	0 0	425541	
Report Totals	3234152 1283174	36036538 7442	0 0	40561306	
Note: Numbers of adipose-clipped fish may be inaccurate due to incomplete data collection and/or partial marking.					
End of report					
The query criteria used to produce this report was:					
WHERE species IN ('1', '3')					
AND brood_year IN (2007,2008)					
AND release_agency = 'FWS'					
AND release_location_rmis_region = 'CECR'					

Related Releases Reports

If you selected Query Form Related Releases in the **--Releases--** section of the RSR Navigation Menu then you may have up to four (4) report formats available to run:

- Related Group Summary (RS1)
- Ad-clipped Releases Summary (AS1)
- Comma-Separated Values custom file (CSV)

- HTML custom table (HTM).

The CSV, HTM, and AS1 reports are described in the sections above. The RS1 report is described and illustrated as follows:

RELATED-GROUP RELEASES SUMMARY (RS1)

This report provides a tabular chart with information for all members of a given related group of fish (i.e. releases sharing the same Related Group Id). The columns shown include:

- CWT 1-st Mark
- CWT 2-nd Mark
- Ad-clipped
- Unclipped.

It also provides a totals row as well as the ratio of unclipped to clipped fish to be used in DIT (Double-Index Tag) group analysis. Report characteristics:

- aggregates by column: Related Group Id
- sorts by columns: Species, Hatchery/Facility, Brood Year, Related Group Id.

Example output listing:

16:25:14 12/05/2011	Regional Mark Information System RELATED GROUP RELEASES SUMMARY				PAGE 1				
REPORT: RS1									
RELATED GROUP: 072011Smolt	TYPE:DIT	SPECIES: Chinook	RUN:						
HATCHERY: LTL WHITE SALMON NFH		BR YEAR: 2010	AGENCY: FWS						
RELATED_GROUP	RELEASE_GRP	RL_YEAR	CWT_1ST_MK	CWT_2ND_MK	TT_ADCLIPPED	TT_UNADCLIPPED			
072011Smolt	055069	2011	0000		0	98724			
072011Smolt	054599	2011	5000	0000	96925	2403			
072011Smolt	055070	2011	0000		0	99070			
072011Smolt	055232	2011	5000	0000	96360	2199			
072011Smolt	TOTALS and RATIO.....			193285	202396	1.047			
RELATED GROUP: 072011April	TYPE:DIT	SPECIES: Chinook	RUN: Fall						
HATCHERY: SPRING CR NFH		BR YEAR: 2010	AGENCY: FWS						
RELATED_GROUP	RELEASE_GRP	RL_YEAR	CWT_1ST_MK	CWT_2ND_MK	TT_ADCLIPPED	TT_UNADCLIPPED			
072011April	055405	2011	5000		203259	0			
072011April	055406	2011	0000		0	202650			
072011April	TOTALS and RATIO.....			203259	202650	0.997			
RELATED GROUP: 072011May	TYPE:DIT	SPECIES: Chinook	RUN: Fall						
HATCHERY: SPRING CR NFH		BR YEAR: 2010	AGENCY: FWS						
RELATED_GROUP	RELEASE_GRP	RL_YEAR	CWT_1ST_MK	CWT_2ND_MK	TT_ADCLIPPED	TT_UNADCLIPPED			
072011May	055365	2011	5000		199576	0			
072011May	055398	2011	0000		0	199410			
072011May	TOTALS and RATIO.....			199576	199410	0.999			
Notes:									
1) This report is sorted by: 1) Species; 2) Hatchery; 3) Brood Year; 4) Related Group Id.									
2) Related Group Ratio: Ratio = Total{CWT&UnAdclipped} / Total{CWT&Adclipped}									
3) Numbers of ad-clipped fish may be inaccurate due to incomplete data collection &/or partial marking.									
End of report									
The query criteria used to produce this report was:									
WHERE related_group_type IN ('D', '0')									
AND species = '1'									
AND reporting_agency = 'FWS'									
AND brood_year IN (2010, 2011)									
AND release_location_state = 'WA'									

6.2 Recovery Reports

NOTE: If there is a very large number of recovery data rows (generally greater than about 150,000) selected by the query (see Figure 14) then some RMIS recovery reports may not appear in the list of available reports. Some report formats are very long and have an upper rowlimit for availability because the format is very large and could result in too much data to send to a browser session for output. In this case, to obtain all data rows desired for your

output you can divide your query into multiple queries. For example, you could run one query for Recovery Years 1976 to 1985, then run another query for Recovery Years 1986 to 1995, etc.

Recoveries-by-Tag-Code Reports

If you selected Query Form By Tag Code in the --Recoveries-- section of the RSR Navigation Menu, then you may have up to twenty (20) report formats available to run:

- Tag Detail by Recovery Year, Fishery (TD1-Rec)
- Tag Detail by Run Year, Fishery (TD1-Run)
- Tag Detail by Recovery Year, Site Name (TD2-Rec)
- Tag Detail by Run Year, Site Name (TD2-Run)
- Tag Detail by Recovery Month, Site Name (TD3)
- Tag Detail by Recovery Year, Site Name (TD4-Rec)
- Tag Detail by Run Year, Site Name (TD4-Run)
- Tag Detail by Site, Statistical Week (TD5)
- Tag Raw Zero Filled (TR1)
- Tag Summary by Recovery Year, Fishery (TS1-Rec)
- Tag Summary by Run Year, Fishery (TS1-Run)
- Tag Summary by Month, Site Name (TS2)
- Tag Summary by Fortnt, Site Name (TS3)
- Tag Summary by Statwk, Site Name (TS4)
- Tag Estimation Analysis by Rec Year (TA1-Rec)
- Tag Estimation Analysis by Run Year (TA1-Run)
- Species Analysis: Smolt/Adult Ratio (SA1)
- PSC 4.1 Data Exchange format (PRC)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM).

NOTE: regarding result values: Most RSR Recovery reports give these numeric aggregate totals:

- **OBS'D** : This is simply the number of observed fish recovered (rows in the Recoveries data table) for the given aggregated criteria;
- **EST'D** : This is the total number of estimated recoveries (Estimated Number) for the given aggregated criteria. It is rounded during summation to the nearest integer value;
- **MEAS'D** : This is the number of fish among those observed that were measured to determine the average length;
- **AVG MM** : This is the average length for the given aggregated criteria.

These reports are described and illustrated as follows:

TAG DETAIL BY RECOVERY YEAR, FISHERY (TD1-REC)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Fishery
- sorts by columns: Tag Code, Recovery Year, Reporting Agency, Fishery.

Example output listing:

FORMAT: TAG DETAIL BY FISHERY (TD1) -- BY RECOVERY YEAR							
TAGCODE	YEAR	AGCY	FC	OBS'D	EST'D	MEAS'D	Avg MM
093640	2004	ADFG	25	1	0	1	578
093640	2004	ODFW	46	2	2	2	597
093640	2004	ODFW	52	1	1	1	620
093640	2005	ODFW	44	1	4	1	690
093640	2005	ODFW	46	1	1	1	584
093640	2005	ODFW	50	5	5	4	580
093640	2005	ODFW	52	3	4	3	665
093640	2006	ODFW	50	3	3	3	703
635824	1997	ODFW	44	3	6	1	770
635824	1997	WDFW	50	4	4	4	688
635824	1998	WDFW	50	4	4	4	733
End of report							
The query criteria used to produce this report was:							
WHERE tag_code IN ('093640', '635824')							
AND tag_status = '1'							

TAG DETAIL BY RUN YEAR, FISHERY (TD1-RUN)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Run Year, Reporting Agency, Fishery
- sorts by columns: Tag Code, Run Year, Reporting Agency, Fishery.

Example output listing:

FORMAT: TAG DETAIL BY FISHERY (TD1) -- BY RUN YEAR							
TAGCODE	YEAR	AGCY	FC	OBS'D	EST'D	MEAS'D	Avg MM
093640	2004	ADFG	25	1	0	1	578
093640	2004	ODFW	46	3	3	3	593
093640	2004	ODFW	50	5	5	4	580
093640	2004	ODFW	52	1	1	1	620
093640	2005	ODFW	44	1	4	1	690
093640	2005	ODFW	50	3	3	3	703
093640	2005	ODFW	52	3	4	3	665
635824	1997	ODFW	44	3	6	1	770
635824	1997	WDFW	50	7	7	7	696
635824	1998	WDFW	50	1	1	1	810
End of report							
The query criteria used to produce this report was:							
WHERE tag_code IN ('093640', '635824')							
AND tag_status = '1'							

TAG DETAIL BY RECOVERY YEAR, SITE NAME (TD2-REC)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name, Brood Year
- sorts by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name, Brood Year.

Example output listing:

FORMAT: TAG DETAIL BY RECOVERY SITE NAME (TD2) -- BY RECOVERY YEAR											
BRD- REC-											
TAGCODE	YEAR	YEAR	AGCY	FC	SITE NAME	SITE CODE	OBS'D	EST'D	MEAS'D	Avg	MM
093640	2002	2004	ADFG	25	AK M 1 SW SASO	1M1SWSAS0	1	0	1	578	
093640	2002	2004	ODFW	46	UMATILLA R SPORT SEC	5F33428 R2801	27	1	1	1	584
093640	2002	2004	ODFW	46	UMATILLA R SPORT SEC	5F33428 R2802	27	1	1	1	610
093640	2002	2004	ODFW	52	THREE MILE DAM (UMAT	5F33427 H27	24	1	1	1	620
093640	2002	2005	ODFW	44	COL R WA SEC 4	5F33203 R104	12	1	4	1	690
093640	2002	2005	ODFW	46	UMATILLA R SPORT SEC	5F33428 R2801	27	1	1	1	584
093640	2002	2005	ODFW	50	CTUIR BROOD PONDS	5F33421 H21	22	3	3	2	595
093640	2002	2005	ODFW	50	MINTHORN PD (UMATILL	5F33414 H14	22	2	2	2	566
093640	2002	2005	ODFW	52	THREE MILE DAM (UMAT	5F33427 H27	24	3	4	3	665
093640	2002	2006	ODFW	50	MINTHORN PD (UMATILL	5F33414 H14	22	3	3	3	703
635824	1994	1997	ODFW	44	COL R OR SPORT SEC 8	5F33203 R208	12	1			
635824	1994	1997	ODFW	44	COL R OR SPORT SEC 9	5F33203 R209	12	2	6	1	770
635824	1994	1997	WDFW	50	SKAMANIA HATCHERY	3F42001 280200 H	4	4	4	4	688
635824	1994	1998	WDFW	50	SKAMANIA HATCHERY	3F42001 280200 H	4	4	4	4	733

End of report

The query criteria used to produce this report was:

WHERE tag_code IN ('093640', '635824')
AND tag_status = '1'

TAG DETAIL BY RUN YEAR, SITE NAME (TD2-RUN)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Run Year, Reporting Agency, Fishery, Recovery Site Name, Brood Year
- sorts by columns: Tag Code, Run Year, Reporting Agency, Fishery, Recovery Site Name, Brood Year.

Example output listing:

FORMAT: TAG DETAIL BY RECOVERY SITE NAME (TD2) -- BY RUN YEAR											
BRD- RUN-											
TAGCODE	YEAR	YEAR	AGCY	FC	SITE NAME	SITE CODE	OBS'D	EST'D	MEAS'D	Avg	MM
093640	2002	2004	ADFG	25	AK M 1 SW SASO	1M1SWSAS0	1	0	1	578	
093640	2002	2004	ODFW	46	UMATILLA R SPORT SEC	5F33428 R2801	27	2	2	2	584
093640	2002	2004	ODFW	46	UMATILLA R SPORT SEC	5F33428 R2802	27	1	1	1	610
093640	2002	2004	ODFW	50	CTUIR BROOD PONDS	5F33421 H21	22	3	3	2	595
093640	2002	2004	ODFW	50	MINTHORN PD (UMATILL	5F33414 H14	22	2	2	2	566
093640	2002	2004	ODFW	52	THREE MILE DAM (UMAT	5F33427 H27	24	1	1	1	620
093640	2002	2005	ODFW	44	COL R WA SEC 4	5F33203 R104	12	1	4	1	690
093640	2002	2005	ODFW	50	MINTHORN PD (UMATILL	5F33414 H14	22	3	3	3	703
093640	2002	2005	ODFW	52	THREE MILE DAM (UMAT	5F33427 H27	24	3	4	3	665
635824	1994	1997	ODFW	44	COL R OR SPORT SEC 8	5F33203 R208	12	1			
635824	1994	1997	ODFW	44	COL R OR SPORT SEC 9	5F33203 R209	12	2	6	1	770
635824	1994	1997	WDFW	50	SKAMANIA HATCHERY	3F42001 280200 H	7	7	7	7	696
635824	1994	1998	WDFW	50	SKAMANIA HATCHERY	3F42001 280200 H	1	1	1	1	810

End of report

The query criteria used to produce this report was:

WHERE tag_code IN ('093640', '635824')
AND tag_status = '1'

TAG DETAIL BY RECOVERY MONTH, SITE NAME (TD3)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name, Recovery Month
- sorts by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name, Recovery Month.

Example output listing:

FORMAT: TAG DETAIL BY RECOVERY SITE/CAL. MONTH (TD3)											
TAGCODE	YEAR	AGCY	FC	SITE NAME	SITE CODE	MO	OBS'D	EST'D	MEAS'D	Avg	MM
093640	2004	ADFG	25	AK M 1 SW SASO	1M1WSASO	08	1	0	1	578	
093640	2004	ODFW	46	UMATILLA R SPORT SEC	5F33428	R2801	27	12	1	1	584
093640	2004	ODFW	46	UMATILLA R SPORT SEC	5F33428	R2802	27	10	1	1	610
093640	2004	ODFW	52	THREE MILE DAM (UMAT	5F33427	H27	24	12	1	1	620
093640	2005	ODFW	44	COL R WA SEC 4	5F33203	R104	12	08	1	4	690
093640	2005	ODFW	46	UMATILLA R SPORT SEC	5F33428	R2801	27	03	1	1	584
093640	2005	ODFW	50	CTUIR BROOD PONDS	5F33421	H21	22	03	3	3	595
093640	2005	ODFW	50	MINTHORN PD (UMATILL	5F33414	H14	22	04	1	1	606
093640	2005	ODFW	50	MINTHORN PD (UMATILL	5F33414	H14	22	05	1	1	525
093640	2005	ODFW	52	THREE MILE DAM (UMAT	5F33427	H27	24	09	1	1	610
093640	2005	ODFW	52	THREE MILE DAM (UMAT	5F33427	H27	24	10	1	1	735
093640	2005	ODFW	52	THREE MILE DAM (UMAT	5F33427	H27	24	11	1	1	650
093640	2006	ODFW	50	MINTHORN PD (UMATILL	5F33414	H14	22	03	1	1	670
093640	2006	ODFW	50	MINTHORN PD (UMATILL	5F33414	H14	22	04	1	1	734
093640	2006	ODFW	50	MINTHORN PD (UMATILL	5F33414	H14	22	05	1	1	704
635824	1997	ODFW	44	COL R OR SPORT SEC 8	5F33203	R208	12	06	1		
635824	1997	ODFW	44	COL R OR SPORT SEC 9	5F33203	R209	12	06	2	6	770
635824	1997	WDFW	50	SKAMANIA HATCHERY	3F42001	280200 H	12	4	4	4	688
635824	1998	WDFW	50	SKAMANIA HATCHERY	3F42001	280200 H	01	1	1	1	680
635824	1998	WDFW	50	SKAMANIA HATCHERY	3F42001	280200 H	02	2	2	2	720
635824	1998	WDFW	50	SKAMANIA HATCHERY	3F42001	280200 H	12	1	1	1	810
End of report											
The query criteria used to produce this report was:											
WHERE tag_code IN ('093640', '635824')											
AND tag_status = '1'											

TAG DETAIL BY RECOVERY YEAR, SITE NAME (TD4-REC)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name
- sorts by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name.

Example output listing:

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
093640	2004	ADFG	25	AK M 1 SW SASO	1	0	1	578
093640	2004	ODFW	46	UMATILLA R SPORT SEC	1	1	1	584
093640	2004	ODFW	46	UMATILLA R SPORT SEC	1	1	1	610
093640	2004	ODFW	52	THREE MILE DAM (UMAT	1	1	1	620
093640	2005	ODFW	44	COL R WA SEC 4	1	4	1	690
093640	2005	ODFW	46	UMATILLA R SPORT SEC	1	1	1	584
093640	2005	ODFW	50	CTUIR BROOD PONDS	3	3	2	595
093640	2005	ODFW	50	MINTHORN PD (UMATILL	2	2	2	566
093640	2005	ODFW	52	THREE MILE DAM (UMAT	3	4	3	665
093640	2006	ODFW	50	MINTHORN PD (UMATILL	3	3	3	703
635824	1997	ODFW	44	COL R OR SPORT SEC 8	1			
635824	1997	ODFW	44	COL R OR SPORT SEC 9	2	6	1	770
635824	1997	WDFW	50	SKAMANIA HATCHERY	4	4	4	688
635824	1998	WDFW	50	SKAMANIA HATCHERY	4	4	4	733

End of report

The query criteria used to produce this report was:

```
WHERE tag_code IN ('093640', '635824')
AND tag_status = '1'
```

TAG DETAIL BY RUN YEAR, SITE NAME (TD4-RUN)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Run Year, Reporting Agency, Fishery, Recovery Site Name
- sorts by columns: Tag Code, Run Year, Reporting Agency, Fishery, Recovery Site Name.

Example output listing:

FORMAT: TAG DETAIL BY SITE SHORT NAME (TD4) -- BY RUN YEAR								
TAGCODE	YEAR	AGCY	FC	SITE NAME	OBS'D	EST'D	MEAS'D	Avg MM
093640	2004	ADFG	25	AK M 1 SW SASO	1	0	1	578
093640	2004	ODFW	46	UMATILLA R SPORT SEC	2	2	2	584
093640	2004	ODFW	46	UMATILLA R SPORT SEC	1	1	1	610
093640	2004	ODFW	50	CTUIR BROOD PONDS	3	3	2	595
093640	2004	ODFW	50	MINTHORN PD (UMATILL	2	2	2	566
093640	2004	ODFW	52	THREE MILE DAM (UMAT	1	1	1	620
093640	2005	ODFW	44	COL R WA SEC 4	1	4	1	690
093640	2005	ODFW	50	MINTHORN PD (UMATILL	3	3	3	703
093640	2005	ODFW	52	THREE MILE DAM (UMAT	3	4	3	665
635824	1997	ODFW	44	COL R OR SPORT SEC 8	1			
635824	1997	ODFW	44	COL R OR SPORT SEC 9	2	6	1	770
635824	1997	WDFW	50	SKAMANIA HATCHERY	7	7	7	696
635824	1998	WDFW	50	SKAMANIA HATCHERY	1	1	1	810

End of report

The query criteria used to produce this report was:

```
WHERE tag_code IN ('093640', '635824')
AND tag_status = '1'
```

TAG DETAIL BY SITE, STATISTICAL WEEK (TD5)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name, Recovery Week
- sorts by columns: Tag Code, Recovery Year, Reporting Agency, Fishery, Recovery Site Name, Recovery Week.

Example output listing:

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
093640	2004	ADFG	25	AK M 1 SW SASO	33	1	0	1	578	
093640	2004	ODFW	46	UMATILLA R SPORT SEC	1	1	1	1	584	
093640	2004	ODFW	46	UMATILLA R SPORT SEC	44	1	1	1	610	
093640	2004	ODFW	52	THREE MILE DAM (UMAT	51	1	1	1	620	
093640	2005	ODFW	44	COL R WA SEC 4	32	1	4	1	690	
093640	2005	ODFW	46	UMATILLA R SPORT SEC	10	1	1	1	584	
093640	2005	ODFW	50	CTUIR BROOD PONDS	12	3	3	2	595	
093640	2005	ODFW	50	MINTHORN PD (UMATILL	16	1	1	1	606	
093640	2005	ODFW	50	MINTHORN PD (UMATILL	19	1	1	1	525	
093640	2005	ODFW	52	THREE MILE DAM (UMAT	38	1	1	1	610	
093640	2005	ODFW	52	THREE MILE DAM (UMAT	43	1	1	1	735	
093640	2005	ODFW	52	THREE MILE DAM (UMAT	45	1	1	1	650	
093640	2006	ODFW	50	MINTHORN PD (UMATILL	14	1	1	1	670	
093640	2006	ODFW	50	MINTHORN PD (UMATILL	16	1	1	1	734	
093640	2006	ODFW	50	MINTHORN PD (UMATILL	19	1	1	1	704	
635824	1997	ODFW	44	COL R OR SPORT SEC 8	25	1				
635824	1997	ODFW	44	COL R OR SPORT SEC 9	25	2	6	1	770	
635824	1997	WDFW	50	SKAMANIA HATCHERY	49	1	1	1	710	
635824	1997	WDFW	50	SKAMANIA HATCHERY	50	1	1	1	700	
635824	1997	WDFW	50	SKAMANIA HATCHERY	52	1	1	1	660	
635824	1997	WDFW	50	SKAMANIA HATCHERY	53	1	1	1	680	
635824	1998	WDFW	50	SKAMANIA HATCHERY	2	1	1	1	680	
635824	1998	WDFW	50	SKAMANIA HATCHERY	6	2	2	2	720	
635824	1998	WDFW	50	SKAMANIA HATCHERY	52	1	1	1	810	

End of report

The query criteria used to produce this report was:

```
WHERE tag_code IN ('093640', '635824')
AND tag_status = '1'
```

TAG RAW ZERO FILLED (TR1)

Report characteristics:

- tabular, fixed-field line, zero-filled format
- does not break down or aggregate data results
- sorts by columns: Tag Code, Reporting Agency, Fishery, Recovery Date.

Example output listing:

212255	Coho	86	890715	CDF0	10	2MS02024	000	6.43	600
212255	Coho	86	890805	CDF0	10	2MS01027	069	5.56	652
212255	Coho	86	891009	QDNR	22	3F21703	210016	R	2.08
212255	Coho	86	890723	WDFW	40	3M32202		0.00	0
212255	Coho	86	890716	WDFW	42	3M32202		0.00	0
232244	Chin	86	900815	FWS	50	3F42001	450474	H	1.00
232244	Chin	86	910814	FWS	50	3F42001	450474	H	1.00
232244	Chin	86	910522	WDFW	46	3F42001	450474	R	3.13
End of report									
The query criteria used to produce this report was:									
WHERE tag_code IN ('232244', '212255')									
AND tag status = '1'									

TAG SUMMARY BY RECOVERY YEAR, FISHERY (TS1-REC)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency
- sorts by columns: Tag Code, Recovery Year, Fishery, Reporting Agency.

Example output listing:

11:42:38 12/21/2011	Regional Mark Information System	PAGE 1			
REPORT: TS1-Rec	ANNUAL RECOVERIES BY REC YEAR				
	TAGCODE: 090137				
RELEASE AGENCY: ODFW		STUDY TYPE: P			
2008 Summer	Steelhead	#CWT: 18472	HATCHERY: UMATILLA HATCHERY		
RELEASED: 4/29/2009	LOSS RATE: .109	SITE: BOSTON CANYON CR (UM			
LENGTH:	#NON-CWT: 36037	STOCK: UMATILLA R			
YEAR FISHERY - Recovery Agency	OBS'D	EST'D	MEAS'D	Avg MM	
2010 Columbia River Sport	- ODFW	1	5	1	570
Fish Trap (freshwater)	- ODFW	5	5	5	570
2010 TOTALS:		6	10	6	570
2011 Fish Trap (freshwater)	- ODFW	3	3	3	585
2011 TOTALS:		3	3	3	585
TOTALS FOR TAGCODE 090137		9	13	9	575
End of report					
The query criteria used to produce this report was:					
WHERE tag_code = '090137'					
AND tag status = '1'					

TAG SUMMARY BY RUN YEAR, FISHERY (TS1-RUN)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Tag Code, Run Year, Reporting Agency
- sorts by columns: Tag Code, Run Year, Fishery, Reporting Agency.

Example output listing:

11:42:54 12/21/2011	Regional Mark Information System			PAGE 1
REPORT: TS1-Run	ANNUAL RECOVERIES BY RUN YEAR			
	TAGCODE: 090137			
RELEASE AGENCY: ODFW				STUDY TYPE: P
2008 Summer Steelhead #CWT: 18472				HATCHERY: UMATILLA HATCHERY
RELEASED: 4/29/2009 LOSS RATE: .109				SITE: BOSTON CANYON CR (UM
LENGTH: #NON-CWT: 36037				STOCK: UMATILLA R
YEAR FISHERY - Recovery Agency	OBS'D	EST'D	MEAS'D	AVG MM
2010 Columbia River Sport Fish Trap (freshwater)	- ODFW	1	5	1 570
	- ODFW	8	8	8 575
2010 TOTALS:		9	13	9 575
TOTALS FOR TAGCODE 090137		9	13	9 575
End of report				
The query criteria used to produce this report was:				
WHERE tag_code = '090137'				
AND tag status = '1'				

TAG SUMMARY BY MONTH, SITE NAME (TS2)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Recovery Site Name
- sorts by columns: Tag Code, Recovery Year, Fishery, Reporting Agency, Recovery Site Name.

Example output listing:

14:34:21 12/21/2011	Regional Mark Information System 2010 RECOVERIES OF TAGCODE 062589 BY CALENDAR MONTH											PAGE 1											
2008 Hybrid Chinook																							
RELEASE AGENCY: CDFG #CWT: 13010 LENGTH: HATCHERY: FEATHER R HATCHERY																							
RELEASED: 10/31/2009 LOSS RATE: .025 SITE: TIBURON NET PENS																							
STUDY TYPE: E #NON-CWT: 668 STOCK: FEATHER R HATCHERY																							
FISHERY AREA..... DATA JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC UNK TOTAL																							
Hatchery - CDFG																							
FEATHER R HATCHERY OBS 1 7 8																							
EST 1 7 8																							
#LM 1 7 8																							
MM 541 546 545																							
FISHERY TOTALS: OBS 1 7 8																							
EST 1 7 8																							
#LM 1 7 8																							
MM 541 546 545																							
Hatchery - FWS																							
COLEMAN NFH OBS 3 3																							
EST 3 3																							
#LM 3 3																							
MM 556 556																							
FISHERY TOTALS: OBS 3 3																							
EST 3 3																							
#LM 3 3																							
MM 556 556																							
Ocean Sport - CDFG																							
FORT ROSS-PIGEON PT OBS 1 1																							
EST 5 5																							
#LM 1 1																							
MM 592 592																							
FISHERY TOTALS: OBS 1 1																							
EST 5 5																							
#LM 1 1																							
MM 592 592																							
TOTALS FOR 2010 OBS 1 10 12																							
EST 5 10 16																							
#LM 1 10 12																							
MM 592 549 552																							
End of report																							
The query criteria used to produce this report was:																							
WHERE tag_code = '062589'																							
AND tag_status = '1'																							

TAG SUMMARY BY FORTNT, SITE NAME (TS3)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Recovery Site Name
- sorts by columns: Tag Code, Recovery Year, Fishery, Reporting Agency, Recovery Site Name.

Example output listing:

14:37:47 12/21/2011	Regional Mark Information System	PAGE 1
REPORT: TS3	2010 RECOVERIES OF TAGCODE	
	062589	
	BY STATISTICAL FORTNIGHT	
2008 Hybrid Chinook	LENGTH:	
RELEASE AGENCY: CDFG #CWT: 13010	HATCHERY: FEATHER R HATCHERY	
RELEASED: 10/31/2009 LOSS RATE: .025	SITE: TIBURON NET PENS	
STUDY TYPE: E #NON-CWT: 668	STOCK: FEATHER R HATCHERY	
FISHERY/AREA		
WEEK NUMBER: 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 UNK TOTAL		
Hatchery - CDFG		
FEATHER R HATCHERY		
OBS	2 6	8
EST	2 6	8
#LM	2 6	8
MM	556 542	545
FISHERY TOTALS:		
OBS	2 6	8
EST	2 6	8
#LM	2 6	8
MM	556 542	545
Hatchery - FWS		
COLEMAN NFH		
OBS	3	3
EST	3	3
#LM	3	3
MM	556	556
FISHERY TOTALS:		
OBS	3	3
EST	3	3
#LM	3	3
MM	556	556
Ocean Sport - CDFG		
FORT ROSS-PIGEON PT		
OBS	1	1
EST	5	5
#LM	1	1
MM	592	592
FISHERY TOTALS:		
OBS	1	1
EST	5	5
#LM	1	1
MM	592	592
TOTALS FOR 2010		
OBS	1 2 9	12
EST	5 2 9	16
#LM	1 2 9	12
MM	592 556 546	552
End of report		
The query criteria used to produce this report was:		
WHERE tag_code = '062589'		
AND tag_status = '1'		

TAG SUMMARY BY STATWK, SITE NAME (TS4)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section

- aggregates by columns: Tag Code, Recovery Year, Reporting Agency, Recovery Site Name
- sorts by columns: Tag Code, Recovery Year, Fishery, Reporting Agency, Recovery Site Name.

Example output listing:

14:56:05 12/21/2011	Regional Mark Information System	PAGE 1
REPORT: TS4	2010 RECOVERIES OF TAGCODE	
	210849	
	BY STATISTICAL WEEK	
2008 Spring Chinook	LENGTH:	
RELEASE AGENCY: WDFW	#CWT:	48447
RELEASED: 4/10/2010	LOSS RATE:	.02
STUDY TYPE:	#NON-CWT:	1153
	HATCHERY: DUNGENESS HATCHERY	
	SITE: DUNGENESS R	18.0018
	STOCK: DUNGENESS R	18.0018
FISHERY/AREA		
Spawning Ground	- WDFW	
DUNGENESS R 18.0018		
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		
EST		
#LM		
MM		
WEEK 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 UNK		TOTAL
OBS		5
EST		14
#LM		4
MM		360
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		
EST		
#LM		
MM		
WEEK 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 UNK		TOTAL
OBS		5
EST		14
#LM		4
MM		360
TOTALS FOR 2010		
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		
EST		
#LM		
MM		
WEEK 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 UNK		TOTAL
OBS		5
EST		14
#LM		4
MM		360
End of report		
The query criteria used to produce this report was:		
WHERE tag_code = '210849'		
AND tag_status = '1'		

TAG ESTIMATION ANALYSIS BY REC YEAR (TA1-REC)

Report characteristics:

- summarized, aggregated by columns: Tag Code, Recovery Year

- sorts by columns: Tag Code, Recovery Year.

Example output listing:

Regional Mark Information System															PAGE 1			
REPORT: TA1-Rec			TAGCODE ESTIMATION ANALYSIS BY RECOVERY YEAR (2001-2008)															
Tagcode	Tagged	Hatchery Name	Sp	Run	BrYr	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	TT
050190	24096	EAGLE CR NFH	Coho	1999	**	**	20	436							**	**	456	
050191	22577	EAGLE CR NFH	Coho	1999	**	**	2	831							**	**	833	
050195	23799	DWORSHAK NAT. HATCH	Stee Summ	2001	**	**		1	2	11	29				**	**	43	
050199	22517	DWORSHAK NAT. HATCH	Stee Summ	2001	**	**			1	4	41				**	**	46	
050264	21966	DWORSHAK NAT. HATCH	Stee Summ	2003	**	**				8	59				**	**	67	
050265	21331	DWORSHAK NAT. HATCH	Stee Summ	2002	**	**				31	23				**	**	54	
050266	22430	DWORSHAK NAT. HATCH	Stee Summ	2002	**	**			9	21	14				**	**	44	
050489	55845	DWORSHAK NAT. HATCH	Chin Spr i	2000	**	**		32	224	4					**	**	261	
050575	29885	WARM SPRINGS NFH	Chin Spr i	2000	**	**	7	71	177	2					**	**	256	
050777	68627	SPRING CR NFH	Chin Fall	2001	**	**		49	404	103	5				**	**	561	
050799	65864	KOOSKIA NAT	Chin Spr i	2001	**	**			4	30					**	**	34	
051170	38022	LTL WHITE SALMON NFH	Chin Spr i	2002	**	**				4	22	5			**	**	31	
051171	144186	SPRING CR NFH	Chin Hybr	2002	**	**			81	360	38				**	**	479	
051181	73062	LTL WHITE SALMON NFH	Chin Spr i	2002	**	**			1	7	299	68			**	**	374	
051184	67174	DWORSHAK NAT. HATCH	Chin Spr i	2002	**	**				8	112	31	7		**	**	159	
051468	42649	WILLARD NFH	Coho	2002	**	**				34					**	**	34	
051477	22990	WARM SPRINGS NFH	Chin Spr i	2002	**	**				8	129	15			**	**	152	

**: In this 12-year report format, these year columns either have no recoveries or were left out of this query.
End of report

The query criteria used to produce this report was:
WHERE tag_code IN
('050575', '050777', '050799', '051170', '051171', '051181', '051184', '051468', '051477', '050190', '050191', '050195', '050199', '050264', '050265', '050266', '050489')
AND tag status = '1'

TAG ESTIMATION ANALYSIS BY RUN YEAR (TA1-RUN)

Report characteristics:

- summarized, aggregated by columns: Tag Code, Run Year
- sorts by columns: Tag Code, Run Year.

Example output listing:

15:41:24 12/21/2011		Regional Mark Information System TAGCODE ESTIMATION ANALYSIS BY RUN YEAR (2001-2008)															PAGE 1	
REPORT: TA1-Run																		
Tagcode	Tagged	Hatchery Name	Sp	Run	BrYr	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	TT
050190	24096	EAGLE CR NFH	Coho	1999	**	**	20	436								**	**	456
050191	22577	EAGLE CR NFH	Coho	1999	**	**	2	831								**	**	833
050195	23799	DWORSHAK NAT. HATCH	Stee Summ	2001	**	**		1	2	11	29					**	**	43
050199	22517	DWORSHAK NAT. HATCH	Stee Summ	2001	**	**			1	4	41					**	**	46
050264	21966	DWORSHAK NAT. HATCH	Stee Summ	2003	**	**				7	60					**	**	67
050265	21331	DWORSHAK NAT. HATCH	Stee Summ	2002	**	**				32	22					**	**	54
050266	22430	DWORSHAK NAT. HATCH	Stee Summ	2002	**	**				9	21	14				**	**	44
050489	55845	DWORSHAK NAT. HATCH	Chin Spr i	2000	**	**			32	224	4					**	**	261
050575	29885	WARM SPRINGS NFH	Chin Spr i	2000	**	**	7	71	177	2						**	**	256
050777	68627	SPRING CR NFH	Chin Fall	2001	**	**			49	404	103	5				**	**	561
050799	65864	KOOSKIA NAT	Chin Spr i	2001	**	**			4	30						**	**	34
051170	38022	LTL WHITE SALMON NFH	Chin Spr i	2002	**	**				4	22	5				**	**	31
051171	144186	SPRING CR NFH	Chin Hybr	2002	**	**			81	360	38					**	**	479
051181	73062	LTL WHITE SALMON NFH	Chin Spr i	2002	**	**			1	7	299	68				**	**	374
051184	67174	DWORSHAK NAT. HATCH	Chin Spr i	2002	**	**				8	112	37	1	**	**			159
051468	42649	WILLARD NFH	Coho	2002	**	**				34						**	**	34
051477	22990	WARM SPRINGS NFH	Chin Spr i	2002	**	**				8	129	15				**	**	152

**: In this 12-year report format, these year columns either have no recoveries or were left out of this query.
End of report

The query criteria used to produce this report was:
WHERE tag_code IN ('050575', '050777', '050799', '051170', '051171', '051181', '051184', '051468', '051477', '050190', '050191', '050195', '050199', '050264', '050265', '050266', '050489')
AND tag_status = '1'

SPECIES ANALYSIS: SMOLT/ADULT RATIO (SA1)

Report characteristics:

- tabular, fixed-field line format
- aggregates by column: Tag Code
- sorts by columns: Species, Brood Year, Tag Code.

Example output listing:

09:55:42 12/30/2011		Regional Mark Information System SPECIES SURVIVAL ANALYSIS															PAGE 1
REPORT: SA1																	
Tagcode	BrYr	Date	Rel	Release	Location....	Hatchery	Location...	#CWT....	LossRt	#Non-CWT.	Total	Rel	#Obs.	#Est....	% Surv	
631084	2000	20020415	NASELLE R	24.0543	NASELLE HATCHERY		23986		267	24253	246	936.73	3.91				
631085	2000	20020415	NASELLE R	24.0543	NASELLE HATCHERY		24429		197	24626	274	1087.94	4.45				
631086	2000	20020415	NASELLE R	24.0543	NASELLE HATCHERY		24790		454	25244	242	904.81	3.65				
631195	2000	200204	NAHCOTTA NET PENS		NASELLE HATCHERY		20829	0	20829	131	447.61	2.15					
631196	2000	200204	NAHCOTTA NET PENS		NASELLE HATCHERY		20059	0	20059	120	411.67	2.05					

Release Group Percent Survival: (%.Surv) = (Total{Estimated.Number})/(100) / (Number.Released.CWT)
This report is sorted by: 1) Species Name; 2) Brood Year; 3) Tag Code.
End of report

The query criteria used to produce this report was:
WHERE UPPER(hatchery_location_name) = 'NASELLE HATCHERY'
AND brood_year = 2000
AND tag_status = '1'

PSC 4.1 DATA EXCHANGE FORMAT (PRC)

This report is a fixed raw data listing of columns that correspond exactly to the Pacific Salmon Commission data exchange format for Recovery data. See "PSC Format Specification" document, Ch. 3 (referenced in §1.1).

Example output listing:

```
record_code,format_version,submission_date,reporting_agency,sampling_agency,recovery_id,species,run_year,recovery_date,recovery_d
ate_type,period_type,period,fishery,gear,adclip_selective_fishery,estimation_level,recovery_location_code,sampling_site,recorded_
mark,sex,weight,weight_code,weight_type,length,length_code,length_type,detection_method,tag_status,tag_code,tag_type,sequential_n
umber,sequential_column_number,sequential_row_number,catch_sample_id,sample_type,sampled_maturity,sampled_run,sampled_length_rang
e,sampled_sex,sampled_mark,estimated_number
"R", "4.1", "20111227", "NMFS", "NMFS", "1995091145", "1", "1995", "19950122", "R", "1", "01", "88", "74", "N", , "7M
", "6", "1", "1", "290", "0", "1", "V", "1", "312311", "0", , , , "3", "4", , , ,
"R", "4.1", "20111227", "NMFS", "NMFS", "1995091144", "1", "1995", "19950122", "R", "1", "01", "88", "74", "N", , "7M
", "1.6", "1", "1", "460", "0", "1", "V", "1", "043919", "0", , , , "3", "4", , , ,
"R", "4.1", "20111227", "NMFS", "NMFS", "1995091129", "1", "1995", "19950122", "R", "1", "01", "88", "74", "N", , "7M
", "2.9", "1", "1", "580", "0", "1", "V", "1", "043929", "0", , , , "3", "4", , , ,
"R", "4.1", "20111227", "NMFS", "NMFS", "1995091130", "1", "1995", "19950125", "R", "1", "01", "88", "74", "N", , "7M
", "2.4", "1", "1", "540", "0", "1", "V", "1", "044033", "0", , , , "3", "4", , , ,
End of report
```

The query criteria used to produce this report was:

```
WHERE tag_status = '1'
AND recovery_date_year = 1995
AND fishery = '88'
```

COMMA-SEPARATED VALUES CUSTOM FILE (CSV)

NOTE: This report requires that you choose your own list of **--Recoveries**—columns (see Figure 16).

To see a description and an example listing of this report format, see the **Release Reports** section above (§ 6.1).

HTML CUSTOM TABLE (HTM)

NOTE: This report requires that you choose your own list of **--Recoveries**—columns (see Figure 16).

To see a description and an example listing of this report format, see the **Release Reports** section above (§ 6.1).

Recoveries-by-Release-Hatchery Reports

If you selected Query Form 'By Release Hatchery' in the **--Recoveries--** section of the RSR Navigation Menu, then you may have up to nine (9) report formats available to run:

- Species Analysis; Smolt/Adult Ratio (SA1)
- Annual Rec by Recovery Year, Fishery (HS1-Rec)

- Annual Rec by Run Year, Fishery (HS1-Run)
- Estimated Recoveries by Calendar Month (HS2)
- Annual Recoveries by Recovery Year (HS4)
- Recovery Estimation Analysis by Year (HA2)
- PSC 4.1 Data Exchange format (PRC)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM).

The SA1, PRC, CSV, and HTM reports are described in the above section. The other reports are described and illustrated as follows:

ANNUAL REC BY RECOVERY YEAR, FISHERY (HS1-REC)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Recovery Year, Reporting Agency
- sorts by columns: Hatchery Location Name, Stock Location Name, Species, Run, Recovery Year, Fishery, Reporting Agency.

Example output listing:

10:23:54 12/30/2011		Regional Mark Information System		PAGE 1		
REPORT: HS1-Rec		ANNUAL RECOVERIES BY REC YEAR				
		HATCHERY: OAK SPRINGS HATCHERY		SPECIES: Steelhead		
		STOCK: UMATILLA R		RUN: Summ		
YEAR FISHERY - Recovery Agency OBS'D EST'D MEAS'D AVG MM						
1991	Columbia River Gillnet	- ODFW	14	30	14	587
	Columbia River Sport	- ODFW	3	32	2	575
	Fish Trap (freshwater)	- ODFW	73	74	73	641
	Freshwater Sport	- ODFW	9	3	9	593
	Hatchery	- FWS	1	1	1	750
	Hatchery	- ODFW	88	88	88	616
1991 TOTALS:			188	228	187	623
1992	Columbia River Gillnet	- ODFW	39	98	39	634
	Columbia River Sport	- ODFW	3	14	2	600
	Fish Trap (freshwater)	- ODFW	48	69	48	610
	Freshwater Sport	- ODFW	7	15	7	582
	Freshwater Sport	- WDFW	7	86	7	700
	Hatchery	- ODFW	73	82	73	633
1992 TOTALS:			177	363	176	627
End of report						
The query criteria used to produce this report was:						
WHERE UPPER(hatchery_location_name) = 'OAK SPRINGS HATCHERY'						
AND recovery_date_year IN (1991,1992)						
AND tag_status = '1'						

ANNUAL REC BY RUN YEAR, FISHERY (HS1-RUN)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section

- aggregates by columns: Run Year, Reporting Agency
- sorts by columns: Hatchery Location Name, Stock Location Name, Species, Run, Run Year, Fishery, Reporting Agency.

Example output listing:

10:24:17 12/30/2011		Regional Mark Information System		PAGE 1	
REPORT: HS1-Run		ANNUAL RECOVERIES BY RUN YEAR			
		HATCHERY: OAK SPRINGS HATCHERY		SPECIES: Steelhead	
		STOCK: UMATILLA R		RUN: Summ	
YEAR	FISHERY - Recovery Agency	OBS'D	EST'D	MEAS'D	AVG MM
1990	Fish Trap (freshwater)	- ODFW	28	28	716
1990	TOTALS:		28	28	716
1991	Columbia River Gillnet	- ODFW	14	30	587
	Columbia River Sport	- ODFW	3	32	575
	Fish Trap (freshwater)	- ODFW	84	86	603
	Freshwater Sport	- ODFW	9	3	593
	Hatchery	- FWS	1	1	750
	Hatchery	- ODFW	88	88	616
1991	TOTALS:		199	240	608
1992	Columbia River Gillnet	- ODFW	39	98	634
	Columbia River Sport	- ODFW	3	14	600
	Fish Trap (freshwater)	- ODFW	9	29	599
	Freshwater Sport	- ODFW	7	15	582
	Freshwater Sport	- WDFW	7	86	700
	Hatchery	- ODFW	73	82	633
1992	TOTALS:		138	323	631
End of report					
The query criteria used to produce this report was:					
WHERE UPPER(hatchery_location_name) = 'OAK SPRINGS HATCHERY'					
AND recovery_date_year IN (1991,1992)					
AND tag_status = '1'					

ESTIMATED RECOVERIES BY CALENDAR MONTH (HS2)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Recovery Year, Reporting Agency, Recovery Site Name
- sorts by columns: Hatchery Location Name, Stock Location Name, Species, Run, Recovery Year, Fishery, Reporting Agency, Recovery Site Name.

Example output listing:

11:26:25 12/30/2011	Regional Mark Information System	PAGE 1
REPORT: HS2	1986 ESTIMATED RECOVERIES (CALENDAR MONTH)	
	HATCHERY: H-Deer Bay Seapen	SPECIES: Chum
	STOCK: S-Pallant Cr	RUN: Fall
FISHERY/AREA..... JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC UNK TOTAL		
1986		
Commercial Seine	- ADFG	
AK M 1 SW SASO		4
FISHERY TOTALS:		4
Hatchery	- CDF0	
H-PALLANT CR		165 165
FISHERY TOTALS:		165 165
Mixed Net and Seine	- CDF0	
NN 02E-000		9 43 51
NN 02E-120		6 6
NN 02E-186		5 5
NN 02E-187		3 3
FISHERY TOTALS:		18 48 66
TOTALS FOR 1986		4 18 48 165 235
1987		
Commercial Seine	- ADFG	
AK M 1 SW SASO		4 4
FISHERY TOTALS:		4 4
Mixed Net and Seine	- CDF0	
NN 02E-000		6 148 154
NN 02E-120		102 23 125
FISHERY TOTALS:		108 171 279
Ocean Gillnet (non-treaty)	- ADFG	
AK M 1 SE 101-11		2 2
FISHERY TOTALS:		2 2
Spawning Ground	- CDF0	
R-PALLANT CR		316 316
FISHERY TOTALS:		316 316
TOTALS FOR 1987		2 4 108 171 316 601
End of report		
The query criteria used to produce this report was:		
WHERE UPPER(hatchery_location_name) = 'H-DEER BAY SEAPEN'		
AND recovery_date_year IN (1986,1987)		
AND species = '5'		
AND tag status = '1'		

ANNUAL RECOVERIES BY RECOVERY YEAR (HS4)

Report characteristics:

- summarized, aggregated master-detail format showing release information in header section
- aggregates by columns: Tag Code, Recovery Year, Reporting Agency
- sorts by columns: Hatchery Location Name, Stock Location Name, Species, Run, Tag Code, Recovery Year, Fishery, Reporting Agency.

Example output listing:

11:42:43 12/30/2011	Regional Mark Information System	PAGE 1		
REPORT: HS4	ANNUAL RECOVERIES BY RECOVERY YEAR			
	HATCHERY: TUOLUMNE R FISH FAC.	SPECIES: Chinook		
	STOCK: TUOLUMNE RIVER	RUN: Fall		
YEAR FISHERY - Recovery Agency	OBS'D	EST'D	MEAS'D	Avg MM
TAG CODE 0601110203				
1992 Treaty Troll	- WDFW	1	1	640
TOTALS FOR YEAR:		1	1	640
GRAND TOTALS:		1	1	640
TAG CODE 0601110204				
1992 Ocean Troll (non-treaty)	- ODFW	1	17	740
TOTALS FOR YEAR:		1	17	740
GRAND TOTALS:		1	17	740
End of report				
The query criteria used to produce this report was:				
WHERE UPPER(hatchery_location_name) = 'TUOLUMNE R FISH FAC.'				
AND tag_status = '1'				

RECOVERY ESTIMATION ANALYSIS BY YEAR (HA2)

Report characteristics:

- tabular, fixed-field line format
- aggregates by columns: Brood Year
- sorts by columns: Hatchery Location Name, Stock Location Name, Species, Run, Brood Year.

Example output listing:

13:32:58 12/30/2011	Regional Mark Information System	PAGE 1														
REPORT: HA2	RECOVERY ESTIMATION ANALYSIS BY RECOVERY YEAR (2001-2010)															
	HATCHERY: ELWHA HATCHERY															
Stock Name	Sp	Run	BrYr	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	TT
ELWHA R	18.0272	Chin	Fall	2002	**	**				1	9	18				28
ELWHA R	18.0272	Chin	Fall	2003	**	**					15	75	2			92
ELWHA R	18.0272	Chin	Fall	2004	**	**					1	35	28	7		71
ELWHA R	18.0272	Chin	Fall	2005	**	**						1	27	82	26	136
ELWHA R	18.0272	Chin	Fall	2006	**	**							5	37		41
ELWHA R	18.0272	Chin	Fall	2008	**	**								2		2
ELWHA R	18.0272	Coho	Fall	2005	**	**						17	44			62
ELWHA R	18.0272	Coho	Fall	2007	**	**								371	366	738
ELWHA R	18.0272	Coho	Wint	2000	**	**		81	812	25						919
ELWHA R	18.0272	Coho	Wint	2001	**	**		238	1512	1						1752
ELWHA R	18.0272	Coho	Wint	2002	**	**			432	1243	85					1760
ELWHA R	18.0272	Coho	Wint	2003	**	**				112	265					377
ELWHA R	18.0272	Coho	Wint	2004	**	**					31	99				130
LOWER ELWHA	18.0274	Coho	Fall	1997	**	**	2									2
LOWER ELWHA	18.0274	Coho	Fall	1998	**	**	3140	53								3193
LOWER ELWHA	18.0274	Coho	Fall	1999	**	**	478	1894	144							2516
LOWER ELWHA	18.0274	Coho	Fall	2006	**	**						24	233			257

**: In this 12-year report format, these year columns either have no recoveries or were left out of this query.

End of report

The query criteria used to produce this report was:

WHERE UPPER(hatchery_location_name) IN ('ELWHA HATCHERY', 'LOWER ELWHA HATCHERY')

AND recovery_date_year IN (2001,2002,2003,2004,2005,2006,2007,2008,2009,2010)

AND tag_status = '1'

PSC 4.1 DATA EXCHANGE FORMAT (PRC)

The PRC report is described in the above section.

COMMA-SEPARATED VALUES CUSTOM FILE (CSV)

NOTE: This report requires that you choose your own list of **--Recoveries**—columns (see section above).

To see a description and an example listing of this report format, see the **Release Reports** section above (§ 6.1).

HTML CUSTOM TABLE (HTM)

NOTE: This report requires that you choose your own list of **--Recoveries**—columns (see section above).

To see a description and an example listing of this report format, see the **Release Reports** section above (§ 6.1).

Recoveries-by-Tag-List Reports

This query form is for use if you have only Tag Codes as a selection criterion. It can accommodate up to 1000 tag codes per query for data selection; whereas, the 'Recoveries by Tag-Code' query form can only accept up to 180 tag codes per query.

If you selected Query Form 'by-Tag-List' in the **--Recoveries--** section of the RSR Navigation Menu then you may have up to four (4) report formats available to run:

- Tag Analysis by SFEC Region, FisheryType (TA3)
- PSC 4.1 Data Exchange format (PRC)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM).

The PRC report is described in the 'Recoveries-by-Tag-Code' section above. The CSV and HTM reports are described the **Release Reports** section above (§ 6.1). The TA3 report is described and illustrated as follows:

TAG ANALYSIS BY SFEC REGION, FISHERYTYPE (TA3)

This report is designed to provide a high-level aggregation of recoveries to assist with Selective Fishery Evaluation Committee (SFEC) analyses. Please see Appendix, §12.1 for further explanation of this report format.

Example output listing:

14:16:38 12/30/2011 Regional Mark Information System REPORT: TA3 TAGCODE OBSERVED ANALYSIS BY SFEC-REGION, SFEC-FISHERYTYPE			
TAG_CODE	SFEC_REGION	SFEC_FISHERYTYPE	OBSERVED
212212	Alaska	Commercial	1
212212	BC Marine South	Commercial	8
212212	BC Marine South	Sport	14
212212	Washington	Commercial	72
212212	Washington	Sport	24
212229	Alaska	Commercial	4
212229	BC Marine North	Commercial	5
212229	BC Marine North	Sport	1
212229	BC Marine South	Commercial	258
212229	BC Marine South	Sport	30
212229	Washington	Commercial	166
212229	Washington	Sport	1
End of report			
The query criteria used to produce this report was: WHERE tag_code IN ('212212', '212229')			

All Recoveries Reports

This query form is for use if you want to query for **all** possible recoveries for your tag groups – regardless of 'Status of Tag' indicator. I.e. if you want to include data rows in which no tag was present, or there was a discrepancy of some kind (see discussion on 'Status of Tag' in § 1.2) then this query form must be used.

If you selected Query Form 'All Recoveries' in the **--Recoveries--** section of the RSR Navigation Menu then you may have up to four (4) report formats available to run:

- PSC 4.1 Data Exchange format (PRC)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM)
- Recoveries by Fin Mark (FM1).

The PRC report is described in the 'Recoveries-by-Tag-Code' section above. The CSV and HTM reports are described the **Release Reports** section above (§ 6.1). The FM1 report is described and illustrated as follows:

RECOVERIES BY FIN MARK (FM1)

This report is based on an aggregation of recoveries by generalized type of fin mark (i.e. 'Fin Mark Type') and is based on the 'Marks' table (see "PSC Format Specification" document, Ch. 11, referenced in §1.1). Fin Mark types are:

- No Adclip
- Adclip
- Adipose Clip Unknown
- Left Ventral
- Right Ventral
- Left Pectoral
- Right Pectoral
- Left Maxillary
- Right Maxillary
- Visual Implant
- Elastomer Injection
- Freeze Brand

Report characteristics:

- summarized, aggregated, fixed-field line format
- aggregates by columns: Fin Mark Type (above)
- sorts by columns: Fin Mark Type, Recorded Mark (Mark Code), Recovery Year, Reporting Agency.

Example output listing:

10:57:57 01/05/2012	Regional Mark Information System				PAGE 1					
REPORT: FM1	RECOVERIES BY FIN MARK									
FIN MARK										
MARK REC. REPORTING										
	CODE	YEAR	AGENCY	OBSERVED						
No Adclip	0000	2000	ODFW	13						
No Adclip	0001	2000	ODFW	2						
No Adclip	TOTAL				15					
Adclip	5000	2000	ODFW	681						
Adclip	5001	2000	ODFW	61						
Adclip	5002	2000	ODFW	12						
Adclip	TOTAL				754					
Left Ventral	0001	2000	ODFW	2						
Left Ventral	5001	2000	ODFW	61						
Left Ventral	TOTAL				63					
Right Ventral	5002	2000	ODFW	12						
Right Ventral	TOTAL				12					
End of report										
The query criteria used to produce this report was:										
WHERE run_year = 2000										
AND UPPER(recovery_location_name) LIKE 'BONNEVILLE POOL%'										

6.3 Other Reports

Catch /Sample Downloading

If you selected Query Form 'Catch/Sample' in the **--Other--** section of the RSR Navigation Menu then you may have up to three (3) report formats available to run:

- PSC 4.1 Data Exchange format (PCS)
- Comma-Separated Values custom file (CSV)
- HTML custom table (HTM).

The CSV and HTM reports are described the **Release Reports** section above (§ 6.1). The PCS report is described and illustrated as follows:

PSC 4.1 DATA EXCHANGE FORMAT (PCS)

This report is a fixed raw data listing of columns that correspond exactly to the Pacific Salmon Commission data exchange format for Catch/Sample data. See "PSC Format Specification" document, Ch. 4 (referenced in §1.1).

Example output listing:

The query criteria used to produce this report was:

```
WHERE species = '5'  
AND catch_year = 1999  
AND UPPER(catch_location_code) LIKE '3M21902%'
```

Locations Downloading

If you selected Query Form 'Locations' in the **--Other--** section of the RSR Navigation Menu then you may have up to three (3) report formats available to run:

- PSC 4.1 Data Exchange format (PLC)
 - Comma-Separated Values custom file (CSV)
 - HTML custom table (HTM).

The CSV and HTM reports are described the **Release Reports** section above (§ 6.1). The PLC report is described and illustrated as follows:

PSC 4.1 DATA EXCHANGE FORMAT (PLC)

This report is a fixed raw data listing of columns that correspond exactly to the Pacific Salmon Commission data exchange format for Location data. See "PSC Format Specification" document, Ch. 6 (referenced in §1.1).

Example output listing:

record_code,format_version,submission_date,reporting_agency,location_code,location_type,name,latitude,longitude,psc_basin,psc_region,epa_reach,description
 "L", "4.1", "20111220", "WDFW", "3F10805 196005 H", "3", "OLSON RESORT (19) ,,, "LYHO", "JUAN", , "OLSON RESORT"
 "L", "4.1", "20111220", "WDFW", "3F10805 1973422E", "3", "CLALLAM BAY ES/HS" ,,, "LYHO", "JUAN", , "CLALLAM BAY HIGH & ELEMENTARY (SEKIU)"
 "L", "4.1", "20111220", "WDFW", "3F10804 190235 H", "3", "SAIL R NETARTS BOXES" ,,, "LYHO", "JUAN", , "SAIL RIVER STREAMSIDE NETARTS BOX"
 "L", "4.1", "20111220", "WDFW", "3F10805 190148 H", "3", "HOKO FALLS HATCHERY" ,,, "LYHO", "JUAN", , "HOKO FALLS HATCHERY (MAKAH TRIBE)
 [FORMERLY HOKO HATCHERY]"
 "L", "4.1", "20111220", "WDFW", "3M10705 888001 H", "3", "CLALLAM BAY NET PENS" ,,, "LYHO", "JUAN", , "CLALLAM BAY NET PENS"
 End of report

The query criteria used to produce this report was:

```
WHERE location_type = '3'  
AND rmis_basin = 'LYH0'
```

Chapter 7 RMIS Analysis: Introduction and Navigation

The RMIS Analysis Reporting (RAR) system is based on the former "CWT Retrieval and Analysis System" (CRAS) developed by the Northwest Indian Fisheries Commission (NWIFC) in 1995. The reporting system is based on a summarized table of CWT recoveries maintained at the RMPC (updated twice per week). This table is aggregated by Tag Code, age cohort index, Management-Fishery, and Recovery Date Year.

RAR also has a number of additional distinguishing features including:

- Allows analyzing recoveries based on **Management-Fishery** – which is a coast-wide alternative fishery designation to the standard PSC 'Fishery' code. (The PSC 'Fishery' code is stored in the CWT database and reported through the RMIS Standard Reporting (RSR) system). See Appendix, §12.2 for a list of Management-Fisheries in RAR;
- Allows the ability to aggregate recoveries in multiple ways in a single report by using grouped criteria (i.e. sets of Tag Codes or Management-Fisheries). For example, Tag Codes can be grouped by Brood Year, Hatchery/Facility, Release Site, etc. and viewed in this way in the recovery distribution reports;
- Allows viewing and analyzing recoveries based on age cohort;
- Allows viewing and analyzing recoveries as a distribution (by percentage) across Management-Fisheries or across Recovery Years.

There are two main types of analysis reporting in RAR:

1. CWT Recoveries;
2. Management-Fishery Recoveries.

Both of these require that you first specify the conditions you want to use to return a list of recoveries. Reports are then generated from these lists.

From the RMIS Home Page clicking on the RMIS Analysis Reporting icon leads to the RAR Login page (see § 2.3 above for login instructions). The contents of this page are determined by which database you chose. Here are the start pages available on the RAR Login page:

Welcome to the Regional Mark Information System (RMIS)

The RMIS Analysis Reporting system contains release and recovery data from the Coded-Wire Tag (CWT) database located at the Pacific States Marine Fisheries Commission (PSMFC) in Portland, Oregon. The raw recovery data are summarized by management fisheries regionwide.

The RMIS Analysis Reporting system is based on the CWT Retrieval and Analysis System (CRAS) developed by the Northwest Indian Fisheries Commission (NWIFC) in 1995.

Choose Start Page:

Define CWT Criteria
 Edit CWT Criteria
 Create Tag List
 Edit Tag List
 CWT Recovery Reports
 Define Combined Fishery
 Edit Combined Fishery
 Fishery Recovery Reports
 User Guide
 Requirements

Figure 17: RAR Login Screen

1. **Define CWT Criteria:** Define and create a Criteria object and (optionally) generate a RAR Tag-List based on the Criteria;
2. **Edit CWT Criteria:** Change, rename, or delete previously created Criteria objects;
3. **Create Tag List:** Create a RAR Tag-List (manually) by entering specific Tag Codes;
4. **Edit Tag List:** Manage all existing RAR Tag-Lists (I.e. inspect, edit, rename, or delete);
5. **CWT Recovery Reports:** Choose and run a CWT-based recovery report using a RAR Tag-List;
6. **Define Combined Fishery:** Create a list of Management-Fisheries for use with the RAR Management-Fishery report;
7. **Edit Combined Fishery:** Change, rename, or delete previously created Management-Fishery list objects;
8. **Fishery Recovery Reports:** Run the Management-Fishery based report using a Management-Fishery list.

From the RAR Login page clicking on Login button leads to the selected RAR Query Form. The navigation of these forms is described below.

7.1 RAR Navigation

Indicates reporting system in use.

Indicates function and mode of this RAR form. Mode is either "New" or "Edit".

Logged in
Database Name: crep
Email Address: <user email>
Logout

You are here: Home > RMIS Analysis Reporting

CWT Criteria Maintenance - (New)

Criteria Name: Lower Columbia 1 **Description:** Some tags from Grays R

Save Save and Generate Tag List

Biological Brood Year/Release Year Locations

Species

- Atlantic
- Chinook
- Chum
- Coho
- Cutthroat
- Masu
- Pink
- Sockeye
- Steelhead

Run Type

- Spring
- Summer
- Fall
- Late fall
- URB L-Fall
- Winter
- Hybrid
- Landlocked

Rearing Type

- Hatchery reared fish
- Wild fish
- Mixed hatchery & wild
- Unknown

Release Stage

- Zygote (eyed eggs)
- Emergent fry
- Fed fry
- Fingerling
- Advanced Fingerling
- Yearling
- Pre-smolt
- Smolt
- Adult
- Multiple release stages

These 3 tabs display different forms for choosing RAR query criteria. All criteria chosen will be saved permanently under the "Criteria Name" entered above.

After choosing all criteria, click 'Save' to simply save this criteria object for use later, or click 'Save and Generate Tag List' to also produce a list of Tag Codes for running RAR reports.

This area displays forms for choosing specific criteria to be saved in this criteria object. It can be edited later and used to run additional tag lists.

Highlighted entry indicates which RAR form is currently in use.

Navigation menu for choosing different RAR forms.

Figure 18: RAR Query Form illustration of navigation elements

The RAR query forms are used to do analysis based on Tag Codes (CWT) or based on Management-Fisheries (see Figure 18, left-side navigation column above).

For CWT Analysis (see Figure 18):

- First, define your criteria by choosing species, run type, rearing type, release stage, brood year, release year and/or hatchery;
- Process your criteria list by selecting the Save and Generate Tag List button;
- A list of tags will automatically be generated.

You can edit this list a number of ways: adding tag codes, removing tag codes, temporarily excluding tag codes, or grouping tag codes to analyze their combined recoveries (see below).

You can also hand-enter tag codes in a tag code list if you already know the ones you want, avoiding the steps above (see 'Create Tag List' form).

Your personal Criteria and RAR Tag-Lists are automatically saved for later recall.

Chapter 8 RAR Tag-List Maintenance

Here is an example RAR Tag-List with 15 Tag Code releases which can be manipulated in a number of ways in preparation for running a RAR CWT Recovery report. Some RAR reports give best results when the RAR Tag-List is grouped (see §8.1 and §8.2 below).

Tag List Maintenance - (Edit)

List Name: Bonneville production 1
Description: List # 3 generated from criteria Bonneville production 1
Tag Count: 15 Rows Highlighted: 3

F	A	E	C	J					
Add Tag Code	Automatic Grouping	Manual Grouping	Edit Group Names	Email Tag List					
Tag Code	Group	Excl	Br Yr	Rel Yr	Species	Run	Hatchery	Release Site	
092042	1	<input type="checkbox"/>	2004	2006	Coho		BONNEVILLE HATCHERY	TANNER CR (BNVILLE)	Delete
094114	2	<input checked="" type="checkbox"/>	2003	2005	Coho		SANDY HATCHERY	BLIND SL (LWR COL R)	Delete
094115	2	<input type="checkbox"/>	2003	2005	Coho		SANDY HATCHERY	CEDAR CR #1 (SANDY R)	Delete
094116	2	<input type="checkbox"/>	2003	2005	Coho		SANDY HATCHERY	CEDAR CR #1 (SANDY R)	Delete
094117	2	<input type="checkbox"/>	2003	2005	Coho		SANDY HATCHERY	CEDAR CR #1 (SANDY R)	Delete
094245	1	<input type="checkbox"/>	2004	2006	Coho		BONNEVILLE HATCHERY	TANNER CR (BNVILLE)	Delete
094306	2	<input checked="" type="checkbox"/>	2004	2006	Coho		SANDY HATCHERY	BLIND SL (LWR COL R)	Delete
094307	2	<input type="checkbox"/>	2004	2006	Coho		SANDY HATCHERY	CEDAR CR #1 (SANDY R)	Delete
094308	2	<input type="checkbox"/>	2004	2006	Coho		SANDY HATCHERY	CEDAR CR #1 (SANDY R)	Delete
094309	2	<input type="checkbox"/>	2004	2006	Coho		SANDY HATCHERY	CEDAR CR #1 (SANDY R)	Delete
631184	3	<input type="checkbox"/>	2003	2005	Coho	Late fall	WASHOUGAL HATCHERY	KLICKITAT+ WASHOUGAL	Delete
632295	3	<input type="checkbox"/>	2003	2005	Coho	Late fall	WASHOUGAL HATCHERY	WASHOUGAL R 28.0159	Delete
632699	3	<input type="checkbox"/>	2004	2006	Coho	Late fall	WASHOUGAL HATCHERY	KLICKITAT R 30.0002	Delete
632764	3	<input type="checkbox"/>	2004	2006	Coho	Late fall	WASHOUGAL HATCHERY	KLICKITAT R 30.0002	Delete
633271	3	<input type="checkbox"/>	2004	2006	Coho	Late fall	WASHOUGAL HATCHERY	WASHOUGAL R 28.0159	Delete

G **H** **I** **B** **D** **C** **J**

Figure 19: RAR Tag-List Maintenance example illustration

8.1 Automatic Tag Code Grouping

Tag Codes can be automatically grouped by: brood year, species, run, hatchery, or release site. To do this, click 'Automatic Grouping' (A). In this example, they have been grouped by hatchery (B). To edit the name of a group, click on a group number (B), or click 'Edit Group Names' (C). These group names will appear in some report results. *NOTE: RAR CWT Maintenance always includes a default group (0) called 'Ungrouped Tags'.*

8.2 Manual Tag Code Grouping

Manual Grouping is a two-step process. First, highlight rows you want to group together by clicking on them (D). The number of highlighted rows will appear in the top header of the form. Then, after you have highlighted all the rows to be grouped, click on the 'Manual Grouping'

button (E) to choose a group. This will go to a Tag Group Maintenance form showing the highlighted Tag Codes and having the new group to be added listed at the bottom. There, enter a name for the new group (ex: 'Klickitat R Sites') in the box, then click 'Save'. You will be returned to the form shown above (Figure 19). In this example, a new, 4th group will be created to identify Release Sites which include the Klickitat River.

8.3 More Editing Features

Adding Tag Code

You can manually add a Tag Code to this list by clicking on 'Add Tag Code' (F). This will go to a form to enter the new Tag Code and assign it to one of the groups.

Changing Sort Columns

The RAR Tag-List Maintenance form can have sort order changed by clicking on the column header (G). The sort order shown is by Tag Code.

Excluding Tag Codes

Specific Tag Codes can be excluded (temporarily) from the RAR Tag-List to compare recovery results without them. For example, in the illustration above (H), releases from 'BLIND SL (LWR COL R)' have been excluded from being run in the report. They can be re-included later.

Looking up Tag-Code Detail

TAG_LOSS_DAYS	
TAG_LOSS_SAMPLE_SIZE	
TAG_REUSE	
COMMENTS	
TAGGED_ACLIPPED	29654
TAGGED_UNCLIPPED	604
UNTAGGED_ACLIPPED	60
UNTAGGED_UNCLIPPED	0
UNTAGGED_UNKNOWN	0
TOTAL_RELEASED	30318
RELATED_GROUP_TYPE	
RELATED_GROUP_ID	
MIDYEAR	N

Recovery Summary for Tag Code 633271				
Reporting Agency	Rec Yr	Fishery	Obs.	Est.
ODFW	2007	Columbia River Gillnet	34	59.55
ODFW	2007	Columbia River Sport	1	3.46
ODFW	2007	Estuary Sport	1	2.21
ODFW	2007	Ocean Sport	24	61.12
ODFW	2007	Ocean Troll (non-treaty)	9	32.54
WDFW	2006	Hatchery	4	4.00
WDFW	2007	Hatchery	181	182.81
WDFW	2007	Ocean Sport	2	0.00
WDFW	2007	Ocean Troll (non-treaty)	2	3.09
WDFW	2007	Sport (charter)	19	32.21
WDFW	2007	Sport (private)	22	56.38
Total recoveries for Tag Code 633271				437.37



Figure 20: RAR Tag Code Detail showing recovery table

Figure 21: RAR Tag Code Detail showing map

The release and recovery detail of a Tag Code can be viewed by clicking on the '?' button (Figure 19, I). This feature has the ability to display a table of the Tag Code's release & recovery information (Figure 20), as well as generate a dynamic map of releases and recoveries for the Tag Code (if available) Using a GoogleMaps application (Figure 21). **Note that these maps show only points where lat/long coordinates are available for the Tag Code. Some recovery sites do not have lat/longs and cannot be shown.**

Emailing RAR Tag-List

You can obtain a simple list of these Tag Codes sent by email by clicking on 'Email Tag List' button (Figure 19, J). This allows easy copy & paste of this RAR Tag-List for use in other applications (such as RMIS Standard Reporting).

Chapter 9 RAR Combined Fishery Maintenance

Combined Fishery Maintenance - (Edit)

Name: Net-1
Description: Some Net Management-Fisheries
Fishery Mapping: CRAS1
Row Count: 100 **Rows Highlighted:** 14

E

Manual Grouping **Edit Group Names** **F**

Code	Management Fishery Name	Group
01	Southeast Alaska Troll	0
02	Southeast Alaska Net	0
03	Southeast Alaska Sport	0
04	North British Columbia Troll	0
05	Central British Columbia Troll	0
06	North/Central British Columbia Sport	0
07	North British Columbia Net	0
08	Central British Columbia Net	0
09	NW Vancouver Island Troll	0
10	SW Vancouver Island Troll	0
100	Southern British Columbia Troll	0
101	Canada General Net	0
111	West Coast Vancouver Island Sport	0
96	Oregon Test Fishery	0
97	Canada Aboriginal	0
98	Oregon General-Sport	0

D

Combined Fishery Maintenance - (New)

Name: Net-1 **A**
Description: Some Net Management-Fisheries **B**
Fishery Mapping: CRAS1 **C**
 Enter Name and Description above, then click Create Combined Fishery

Create Combined Fishery

Management Fishery Name

Combined Fishery Maintenance

Name: Net-1
Description: Some Net Management-Fisheries
Mapping: CRAS1
Row Count: 100 **Rows Highlighted:** 14

Manual Grouping

Manual Grouping is a two-step process. Step 1 was highlighting the Management Fisheries to be grouped on the Combined Fishery Maintenance page. Step 2 is choosing which Group to add the highlighted Management Fisheries to on this page.

Step 2: Choose Group

Click on a radio button to choose a Group below. If you're creating a New Group enter a name in the Group Name field. After choosing the desired Group, click the "Save" button.

Add To	Group #	Group Name	Fishery Count
<input type="radio"/>	0	Ungrouped Fisheries	100
<input checked="" type="radio"/> G	1	Custom Group 1 H	--

I Save **Cancel**

Figure 22: RAR Combined-Fishery Maintenance example illustration

On the Combined Fishery Maintenance forms (Figure 22), enter a Name (A) and Description (B) for your new 'Combined-Fishery' object. Then click 'Create Combined Fishery' button (C). The table shown above will appear. At that point, you can do the two-step sequence below.

9.1 Adding Groups to a Combined-Fishery

Step 1

Choose your first group of Management-Fisheries by clicking on them as seen in the example above (D). Then click on the 'Manual Grouping' button in the upper left (E).

Step 2

You will then go to a form to enter a name for the group of items (shown lower-right). Per instructions on the form, click on the lowest radiobutton (G), type in a Group Name (H), and click 'Save' (I). Then you will be returned to the table at left with Group '1' items identified (F).

Repeat

Repeat steps 1 & 2 to create multiple groups of Management-Fisheries. Each item will have a Group number (F) as shown. *Note: Group '0' is always categorized as the default group: 'Ungrouped Fisheries'.*

Chapter 10 RAR CWT Recovery Reports

You can generate a number of CWT recovery reports using a range of fishery recovery locations. RMIS Analysis CWT Reports are as follows:

- **CWT Summary**
- **CWT Recovery Distribution (all fisheries)**
- **CWT Recovery Distribution (combined fisheries)**
- **CWT Recovery Distribution (CWT groups)**
- **CWT Recovery Distribution (CWT groups and combined fisheries)**
- **Freshwater Fishery Recovery**
- **Freshwater Recovery (CWT groups)**
- **Survival and Contribution Rate (CWT groups)**
- **Contribution Rate (combined fisheries)**.

RAR CWT Recovery reports are run from a RAR Tag-List object (described in Ch. 8). Some reports optionally can include, or require; a RAR Combined-Fishery object as well (a list of Management- Fisheries – described in Ch. 9).

These reports are described and illustrated as follows:

CWT SUMMARY

Report characteristics:

- summarized, master-detail format showing release information in header section
- recovery data (by general recovery location) and estimated recoveries by age
- aggregates by columns: Location State/Province, age cohort
- sorts by columns: Release Year, Tag Code.

Example output listing:

<p style="text-align: center;">CWT Summary Run Date: 2012-03-14 Tag List: Chinook1 Sorted by: year of release</p>						
Release Summary						
Tag Code: 630884	Run: Spring					
Brood Year: 2000	Release Site: GREEN R 26.0323					
Species: Chinook	Stock: COWLITZ R 26.0002					
Hatchery Name: NORTH TOUTLE HATCHRY	Rearing Type: Hatchery reared fish					
Release Agency: Washington Department of Fish and Wildlife	Tag Type: Standard Alphanumeric (1 mm)					
Release Stage: Smolt	Avg. Weight (g): 50.39					
First Release Date: 2002-05-26	Non CWT 1st Mark Name: Adipose clip (Ad)					
Last Release Date: 2002-05-30	Non CWT 1st Mark Count: 970					
CWT 1st Mark Name: Adipose clip (Ad)	Non CWT 2nd Mark Name:					
CWT 1st Mark Count: 105,616	Non CWT 2nd Mark Count:					
CWT 2nd Mark Name:						
CWT 2nd Mark Count:						
Total # Released: 106,586						
# Adclips Associated w/Release: 106,586						
Recovery Summary (All Ages)						
Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries			
Alaska	4	14.9	1%			
British Columbia	48	157.2	15%			
Washington	46	124.6	12%			
Oregon	28	82.4	8%			
California	0	0.0	0%			
Escapement	231	601.3	56%			
Other	45	90.0	8%			
Total Recoveries	409	1074.2	100%			
Estimated Minimum Survival Rate 0.01017						
Estimated Recoveries by Age						
Recovery Age	Total	Total %	Fishery	Fishery %	Freshwater Escapement	Freshwater %
2	18.0	2%	0.0	0%	18.0	3%
3	210.2	20%	103.2	22%	107.0	18%
4	671.9	63%	331.2	70%	340.7	57%
5	160.6	15%	33.9	7%	126.7	21%
6	13.5	1%	4.6	1%	8.9	1%

CWT RECOVERY DISTRIBUTION (ALL FISHERIES)

Report characteristics:

- summarized, master-detail format showing release information in header section
- recoveries are summarized showing distribution into management fishery
- aggregates by columns: age cohort, Management-Fishery, fishery summary type (whether freshwater escapement or otherwise)
- sorts by columns: Release Year, Tag Code, age cohort, fishery summary type.

Example output listing:

CWT Recovery Dist (all fisheries)			
Run Date: 2012-03-14			
Tag List: Chinook1			
Sorted by: year of release			
Release Summary			
Tag Code: 630884			
Brood Year: 2000			
Species: Chinook			Run: Spring
Hatchery Name: NORTH TOUTLE HATCHRY			Release Site: GREEN R 26.0323
Release Agency: Washington Department of Fish and Wildlife			Stock: COWLITZ R 26.0002
Release Stage: Smolt			Rearing Type: Hatchery reared fish
First Release Date: 2002-05-26			Tag Type: Standard Alphanumeric (1 mm)
Last Release Date: 2002-05-30			Avg. Weight (g): 50.39
CWT 1st Mark Name: Adipose clip (Ad)			Non CWT 1st Mark Name: Adipose clip (Ad)
CWT 1st Mark Count: 105,616			Non CWT 1st Mark Count: 970
Total # Released: 106,586			
# Adclips Associated w/Release: 106,586			
Recovery Summary (Age 2)			
Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Freshwater Escapement	18	18.0	100.0%
Total Recoveries	18	18.0	100.0%
Recovery Summary (Age 3)			
Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
SW Vancouver Island Troll	10	29.2	13.9%
WA Area 2 Sport (Westport)	7	19.8	9.4%
WA Area 1 Troll (Columbia River Mouth)	1	8.0	3.8%
WA Area 1 Sport (Illwaco)	4	7.4	3.5%
Buoy 10 Sport	1	2.8	1.3%
Tillamook Troll	2	3.4	1.6%
Tillamook Sport	2	5.8	2.8%
Freshwater Net	13	23.0	10.9%
High Seas Catch	4	3.8	1.8%
Freshwater Escapement	107	107.0	50.9%
Total Recoveries	151	210.2	100.0%

<report example continued on next page..>

Recovery Summary (Age 4)

Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Southeast Alaska Troll	4	14.9	2.2%
North British Columbia Troll	2	4.6	0.7%
NW Vancouver Island Troll	16	48.2	7.2%
SW Vancouver Island Troll	8	24.7	3.7%
Southern British Columbia Troll	3	0.0	0.0%
West Coast Vancouver Island Sport	4	31.9	4.7%
WA Areas 4 and 4B Troll (Cape Flattery)	15	37.0	5.5%
WA Area 4 Sport (Neah Bay)	2	3.9	0.6%
WA Area 3 Troll (Quileute)	1	2.0	0.3%
WA Area 2 Troll (Grays Harbor)	6	19.6	2.9%
WA Area 2 Sport (Westport)	2	5.2	0.8%
WA Area 1 Troll (Columbia River Mouth)	4	12.0	1.8%
WA Area 1 Sport (Illwaco)	2	5.6	0.8%
Newport Troll	19	57.2	8.5%
Newport Sport	2	3.8	0.6%
Coos Bay Troll	3	12.2	1.8%
Freshwater Sport	5	21.6	3.2%
Freshwater Net	17	26.8	4.0%
High Seas Catch	3	0.0	0.0%
Freshwater Escapement	69	340.7	50.7%
Total Recoveries	187	671.9	100.0%

Recovery Summary (Age 5)

Recovery Location	Number of	Number of	% of Total
North British Columbia Troll		2	3.8
NW Vancouver Island Troll		2	10.2
WA Areas 4 and 4B Troll (Cape Flattery)		1	1.3
Freshwater Sport		2	8.4
Freshwater Net		8	10.2
Freshwater Escapement		31	126.7
Total Recoveries		46	160.6
			100.0%

Recovery Summary (Age 6)

Recovery Location	Number of	Number of	% of Total
SW Vancouver Island Troll	1	4.6	34.1%
Freshwater Escapement	6	8.9	65.9%
Total Recoveries	7	13.5	100.0%

Recovery Summary (All Ages)

Recovery Location	Number of	Number of	% of Total
Fishery	178	472.9	44.0%
Freshwater Escapement	231	601.3	56.0%
Total Recoveries	409	1074.2	100.0%

CWT RECOVERY DISTRIBUTION (COMBINED FISHERIES)

Report characteristics:

- summarized, master-detail format showing release information in header section
- recoveries are summarized showing distribution into customized fishery categories (groups) using a combined-fishery (created by the user, see Ch. 9 above)
- aggregates by columns: age cohort, Management-Fishery group, fishery summary type (whether freshwater escapement or otherwise)
- sorts by columns: Release Year, Tag Code, age cohort, Management-Fishery group, fishery summary type.

Example output listing:

CWT Recovery Dist (combined fishery)				
Run Date: 2012-03-14				
Tag List: Chinook1				
Combined Fishery: Gear Types 1				
Sorted by: year of release				
Release Summary				
Tag Code: 630884	Run: Spring			
Brood Year: 2000	Release Site: GREEN R 26.0323			
Species: Chinook	Stock: COWLITZ R 26.0002			
Hatchery Name: NORTH TOUTLE HATCHRY	Rearing Type: Hatchery reared fish			
Release Agency: Washington Department of Fish and Wildlife	Tag Type: Standard Alphanumeric (1 mm)			
Release Stage: Smolt	Avg. Weight (g): 50.39			
First Release Date: 2002-05-26	Non CWT 1st Mark Name: Adipose clip (Ad)			
Last Release Date: 2002-05-30	Non CWT 1st Mark Count: 970			
CWT 1st Mark Name: Adipose clip (Ad)	Non CWT 2nd Mark Name:			
CWT 1st Mark Count: 105,616	Non CWT 2nd Mark Count:			
CWT 2nd Mark Name:				
CWT 2nd Mark Count:				
Total # Released: 106,586				
# Adclips Associated w/Release: 106,586				
Recovery Summary (Age 2)				
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries (All Ages)	% of Total Est. Recoveries for Age
Ungrouped Fisheries	18	18.0	1.7%	100.0%
Total Recoveries	18	18.0	1.7%	100.0%
Recovery Summary (Age 3)				
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries (All Ages)	% of Total Est. Recoveries for Age
Ungrouped Fisheries	111	110.8	10.3%	52.7%
All-Troll	13	40.6	3.8%	19.3%
All-Net	13	23.0	2.1%	10.9%
All-Sport	14	35.8	3.3%	17.0%
Total Recoveries	151	210.2	19.6%	100.0%
<report example continued on next page..>				

Recovery Summary (Age 4)				
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries (All Ages)	% of Total Est. Recoveries for Age
Ungrouped Fisheries	72	340.7	31.7%	50.7%
All-Troll	81	232.4	21.6%	34.6%
All-Net	17	26.8	2.5%	4.0%
All-Sport	17	72.0	6.7%	10.7%
Total Recoveries	187	671.9	62.5%	100.0%

Recovery Summary (Age 5)				
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries (All Ages)	% of Total Est. Recoveries for Age
Ungrouped Fisheries	31	126.7	11.8%	78.9%
All-Troll	5	15.3	1.4%	9.5%
All-Net	8	10.2	0.9%	6.4%
All-Sport	2	8.4	0.8%	5.2%
Total Recoveries	46	160.6	15.0%	100.0%

Recovery Summary (Age 6)				
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries (All Ages)	% of Total Est. Recoveries for Age
Ungrouped Fisheries	6	8.9	0.8%	65.9%
All-Troll	1	4.6	0.4%	34.1%
Total Recoveries	7	13.5	1.3%	100.0%

Recovery Summary (All Ages)				
Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries	
Fishery	178	472.9	44.0%	
Freshwater Escapement	231	601.3	56.0%	
Total Recoveries	409	1074.2	100.0%	

CWT RECOVERY DISTRIBUTION (CWT GROUPS)

Report characteristics:

- tabular format, organized by CWT group number (see RAR Tag-List grouping in Ch. 8)
- recoveries are summarized by CWT groups and Management-Fisheries
- aggregates by columns: CWT group number, age cohort
- sorts by columns: CWT group number, age cohort.

Example output listing:

CWT Recovery Dist (groups)																																																																																							
Run Date: 2012-03-14																																																																																							
Tag List: Bonneville production 1																																																																																							
Group Name: Hatchery: BONNEVILLE HATCHERY																																																																																							
Age: 2 Total # of Est. Recoveries: 213.2 Total # of Est. Fishery Recoveries: 3.0																																																																																							
<table border="1"> <thead> <tr> <th>Recovery Location</th><th>Number of Obs. Recoveries</th><th>Number of Est. Recoveries</th><th>% of Total Est. Recoveries</th></tr> </thead> <tbody> <tr> <td>WA Area 1 Sport (Illwaco)</td><td>1</td><td>3.0</td><td>1.4%</td></tr> <tr> <td>Freshwater Escapement</td><td>208</td><td>210.2</td><td>98.6%</td></tr> <tr> <td>Total Recoveries</td><td>209</td><td>213.2</td><td>100.0%</td></tr> </tbody> </table>				Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries	WA Area 1 Sport (Illwaco)	1	3.0	1.4%	Freshwater Escapement	208	210.2	98.6%	Total Recoveries	209	213.2	100.0%																																																																				
Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries																																																																																				
WA Area 1 Sport (Illwaco)	1	3.0	1.4%																																																																																				
Freshwater Escapement	208	210.2	98.6%																																																																																				
Total Recoveries	209	213.2	100.0%																																																																																				
Group Name: Hatchery: BONNEVILLE HATCHERY																																																																																							
Age: 3 Total # of Est. Recoveries: 1,976.6 Total # of Est. Fishery Recoveries: 641.6																																																																																							
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<report example continued on next page..>																																																																																							

Group Name: Hatchery: SANDY HATCHERY

Age: 2 Total # of Est. Recoveries: 184.1 Total # of Est. Fishery Recoveries: 0.0

Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Freshwater Escapement	157	184.1	100.0%
Total Recoveries	157	184.1	100.0%

Group Name: Hatchery: SANDY HATCHERY

Age: 3 Total # of Est. Recoveries: 2,336.6 Total # of Est. Fishery Recoveries: 630.4

Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
West Coast Vancouver Island Sport	1	14.9	0.6%
WA Areas 4 and 4B Troll (Cape Flattery)	2	4.4	0.2%
WA Area 3 Sport (La Push)	1	1.6	0.1%
WA Area 2 Troll (Grays Harbor)	1	1.3	0.1%
WA Area 2 Sport (Westport)	13	28.1	1.2%
WA Area 1 Troll (Columbia River Mouth)	5	19.8	0.8%
WA Area 1 Sport (Illwaco)	103	209.5	9.0%
Buoy 10 Sport	29	84.1	3.6%
Tillamook Sport	12	29.9	1.3%
Newport Troll	1	2.1	0.1%
Newport Sport	18	57.1	2.4%
Coos Bay Troll	6	22.7	1.0%
Coos Bay Sport	14	41.7	1.8%
Brookings Sport	1	5.7	0.2%
WA Area 5 Sport	1	4.2	0.2%
Freshwater Sport	8	34.2	1.5%
Freshwater Net	37	66.4	2.8%
Freshwater Escapement	1,541	1,706.2	73.0%
Oregon General-Sport	2	2.7	0.1%
Total Recoveries	1,796	2,336.6	100.0%

Group Name: Hatchery: SANDY HATCHERY

Age: 4 Total # of Est. Recoveries: 1.0 Total # of Est. Fishery Recoveries: 0.0

Recovery Location	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Freshwater Escapement	1	1.0	100.0%
Total Recoveries	1	1.0	100.0%

CWT RECOVERY DISTRIBUTION (CWT GROUPS AND COMBINED FISHERIES)

Report characteristics:

- tabular format, organized by CWT group number (see RAR Tag-List grouping in Ch. 8)
- recoveries are summarized by CWT groups and show a distribution into customized fishery categories (groups) using a combined-fishery (also created by the user, see Ch. 9)
- aggregates by columns: CWT group number, age cohort, Management-Fishery group
- sorts by columns: CWT group number, age cohort, Management-Fishery group.

Example output listing:

CWT Recoveries (groups/combined fishery)			
Run Date: 2012-03-15			
Tag List: Bonneville production 1			
Combined Fishery: Gear Types 1			
Group Name: Hatchery: BONNEVILLE HATCHERY			
Age: 2 Total # of Est. Recoveries: 213.2 Total # of Est. Fishery Recoveries: 3.0			
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Ungrouped Fisheries	208	210.2	98.6%
All-Sport	1	3.0	1.4%
Total Recoveries	209	213.2	100.0%
Age: 3 Total # of Est. Recoveries: 1,976.6 Total # of Est. Fishery Recoveries: 641.6			
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Ungrouped Fisheries	1,339	1,344.2	68.0%
All-Troll	20	67.3	3.4%
All-Net	16	34.8	1.8%
All-Sport	208	530.3	26.8%
Total Recoveries	1,583	1,976.6	100.0%
Group Name: Hatchery: SANDY HATCHERY			
Age: 2 Total # of Est. Recoveries: 184.1 Total # of Est. Fishery Recoveries: 0.0			
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Ungrouped Fisheries	157	184.1	100.0%
Total Recoveries	157	184.1	100.0%
Age: 3 Total # of Est. Recoveries: 2,336.6 Total # of Est. Fishery Recoveries: 630.4			
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Ungrouped Fisheries	1,541	1,706.2	73.0%
All-Troll	15	50.3	2.2%
All-Net	37	66.4	2.8%
All-Sport	203	513.7	22.0%
Total Recoveries	1,796	2,336.6	100.0%
Age: 4 Total # of Est. Recoveries: 1.0 Total # of Est. Fishery Recoveries: 0.0			
Grouped Fishery Name	Number of Obs. Recoveries	Number of Est. Recoveries	% of Total Est. Recoveries
Ungrouped Fisheries	1	1.0	100.0%
Total Recoveries	1	1.0	100.0%

FRESHWATER FISHERY RECOVERY

Report characteristics:

- summarized, master-detail format showing release information in header section
- observed and estimated freshwater recoveries by recovery year, (standard PSC) fishery, and site
- aggregates by columns: Tag Code, Recovery Year
- sorts by columns: Tag Code, Recovery Year, PSC Fishery name.

Example output listing:

<p style="text-align: center;">Freshwater Recovery Run Date: 2012-03-15 Tag List: Mid-Columbia</p>																																																																																										
Release Summary																																																																																										
Tag Code: 094052																																																																																										
Brood Year: 2003																																																																																										
Species: Coho																																																																																										
Hatchery Name: OXBOW HATCHERY					Run:																																																																																					
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Release Stage: Smolt					Stock: TANNER CR (BNVILLE)																																																																																					
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Brood Year: 2005																																																																																										
Species: Coho					Run:																																																																																					
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FRESHWATER RECOVERY (CWT GROUPS)

Report characteristics:

- tabular format, organized by CWT groups (see RAR Tag-List grouping in Ch. 8)
- observed and estimated freshwater recoveries by CWT groups, recovery year, (standard PSC) fishery, and site
- aggregates by columns: CWT group number, Recovery Year, PSC Fishery name
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Example output listing:

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SURVIVAL AND CONTRIBUTION RATE (CWT GROUPS)

Report characteristics:

- tabular format, organized by Species, CWT groups (see RAR Tag-List grouping in Ch. 8)
- shows number CWT released, 'contribution' into Management-Fisheries, 'expanded escapement' rate, and 'total expanded recovery' rate for each Tag Code release
- aggregates by columns: Tag Code
- sorts by columns: Species, CWT group number, Tag Code.

Example output listing:

Survival and Contribution Rate (groups)								
Run Date: 2012-03-16								
Tag List: Umatilla Basin								
Species: Chinook								
Group Name	Tag Code	Hatchery Name	Release Site	BrYr	# CWTs Released	Expanded Fishery Contribution Rate	Expanded Escapement Rate	Total Expanded Recovery Rate
Release Site: COLUMBIA R-5	B50312	SOC SEC PENS (MCNARY	COLUMBIA R-5	1985	50,840	0.0029	0.0001	0.0029
Release Site: COLUMBIA R-5	B50313	SOC SEC PENS (MCNARY	COLUMBIA R-5	1985	54,598	0.0019	0.0004	0.0023
Release Site: COLUMBIA R-5	B50314	SOC SEC PENS (MCNARY	COLUMBIA R-5	1985	52,387	0.0023	0.0004	0.0027
Release Site: COLUMBIA R-5	B50315	SOC SEC PENS (MCNARY	COLUMBIA R-5	1985	52,946	0.0014	0.0014	0.0028
					Average	0.0021	0.0006	0.0027
Release Site: UMATILLA R	073162	BONIFER POND	UMATILLA R	1984	30,838	0.0063	0.0004	0.0067
Release Site: UMATILLA R	073327	IRRIGON HATCHERY	UMATILLA R	1984	88,396	0.0294	0.0027	0.0321
Release Site: UMATILLA R	073833	IRRIGON HATCHERY	UMATILLA R	1985	20,636	0.0050	0.0024	0.0074
Release Site: UMATILLA R	073834	IRRIGON HATCHERY	UMATILLA R	1985	21,335	0.0037	0.0000	0.0038
Release Site: UMATILLA R	073835	IRRIGON HATCHERY	UMATILLA R	1985	20,690	0.0032	0.0004	0.0036
Release Site: UMATILLA R	073836	IRRIGON HATCHERY	UMATILLA R	1985	20,170	0.0041	0.0011	0.0052
Release Site: UMATILLA R	073837	IRRIGON HATCHERY	UMATILLA R	1985	20,982	0.0028	0.0021	0.0050
Release Site: UMATILLA R	073838	IRRIGON HATCHERY	UMATILLA R	1985	20,815	0.0032	0.0003	0.0035
Release Site: UMATILLA R	073839	IRRIGON HATCHERY	UMATILLA R	1985	21,659	0.0053	0.0002	0.0054
Release Site: UMATILLA R	073840	IRRIGON HATCHERY	UMATILLA R	1985	20,269	0.0051	0.0005	0.0056
Release Site: UMATILLA R	073841	IRRIGON HATCHERY	UMATILLA R	1985	20,895	0.0027	0.0034	0.0061
Release Site: UMATILLA R	073842	IRRIGON HATCHERY	UMATILLA R	1985	21,694	0.0042	0.0002	0.0044
					Average	0.0063	0.0011	0.0074
Species: Steelhead								
Group Name	Tag Code	Hatchery Name	Release Site	BrYr	# CWTs Released	Expanded Fishery Contribution Rate	Expanded Escapement Rate	Total Expanded Recovery Rate
Release Site: LTL SHEEP CR (IMNAHA	073760	IRRIGON HATCHERY	LTL SHEEP CR (IMNAHA	1985	28,491	0.0042	0.0039	0.0081
Release Site: LTL SHEEP CR (IMNAHA	073761	IRRIGON HATCHERY	LTL SHEEP CR (IMNAHA	1985	28,527	0.0026	0.0041	0.0067
					Average	0.0034	0.0040	0.0074
Release Site: SPRING CR (WALLOWA R	073762	IRRIGON HATCHERY	SPRING CR (WALLOWA R	1985	28,610	0.0105	0.0050	0.0155
Release Site: SPRING CR (WALLOWA R	073763	IRRIGON HATCHERY	SPRING CR (WALLOWA R	1985	29,766	0.0115	0.0051	0.0165
Release Site: SPRING CR (WALLOWA R	073801	IRRIGON HATCHERY	SPRING CR (WALLOWA R	1985	28,518	0.0036	0.0032	0.0068
Release Site: SPRING CR (WALLOWA R	073802	IRRIGON HATCHERY	SPRING CR (WALLOWA R	1985	28,303	0.0062	0.0032	0.0094
					Average	0.0080	0.0041	0.0121

CONTRIBUTION RATE (COMBINED FISHERIES)

Report characteristics:

- tabular format across Recovery Years
- shows Estimated Number and, 'contribution' rate into customized Management-Fishery categories (groups) using a combined-fishery (created by the user, see Ch. 9 above)
- aggregates by columns: Management-Fishery group number
- sorts by columns: Management-Fishery group number.

Example output listing:

Contribution Rate (combined fishery)													
Run Date: 2012-03-16													
Tag List: Umatilla Basin													
Combined Fishery: Gear Types 1													
		Recovery Years											
Fisheries		1986 # %		1987 # %		1988 # %		1989 # %		1990 # %		1991 # %	
Ungrouped Fisheries		79.1	64.9	27.9	2.6	582.7	20.4	487.1	26.7	96.8	17.0	24.1	58.1
All-Troll		4.7	3.9	58.7	5.6	1,024.6	35.9	491.5	26.9	190.0	33.3	14.1	34.0
All-Net		38.0	31.2	586.7	55.6	990.1	34.7	804.1	44.0	255.8	44.8	3.3	8.0
All-Sport		0.0	0.0	382.8	36.2	256.1	9.0	43.0	2.4	28.2	4.9	0.0	0.0
Total Recoveries		121.8	100.0	1,056.1	100.0	2,853.5	100.0	1,825.7	100.0	570.8	100.0	41.5	100.0

Contribution Rate = total # of estimated recoveries in fishery for recovery year / total # of recoveries in all fisheries and escapement for recovery year

Chapter 11 RAR Fishery Recovery Report

The RAR Fishery recovery report is described and illustrated as follows:

- based on inputs of:
 - user created RAR Combined-Fishery object (described in Ch. 9)
 - one Species
 - range of Recovery Years;
- produces a complete table of observed and estimated recoveries for each Tag Code release as distributed into the Management-Fishery categories defined in the RAR Combined-Fishery;
- aggregates by columns: Management-Fishery group number, Tag Code;
- sorts by columns: Management-Fishery group number, Brood Year, Recovery Year, Tag Code.

Example output listing:

Fishery Recovery Run Date: 2012-03-16 Combined Fishery: Coastal—2 Species: Chum Recovery Year: 2000 to 2002							
Fishery Group: #1 Washington Troll Species: Chum							
Strata	BY	Tag Code	Release Site	Hatchery	Stock	# Observed	# Estimated
2002	1998	183850	R-Chehalis R	H-Chehalis River H	S-Chehalis R	1	2
	1998	183851	R-Chehalis R	H-Chehalis River H	S-Chehalis R	1	2
	1998	183852	R-Chehalis R	H-Chehalis River H	S-Chehalis R	1	2
	1999	184543	R-Inch Cr	H-Inch Creek H	S-Inch Cr	1	2
	1999	184545	R-Sliammon R	H-Sliammon River H	S-Sliammon R	3	7
Fishery Group: #3 SE Alaska Troll Species: Chum							
Strata	BY	Tag Code	Release Site	Hatchery	Stock	# Observed	# Estimated
2001	1997	0401010308	NAKAT INLET 101-11	NAKAT INLET	NEETS BAY	3	0
	1998	0401031406	NAKAT INLET 101-11	NAKAT INLET	NEETS BAY	1	0
Fishery Group: #4 High Seas Species: Chum							
Strata	BY	Tag Code	Release Site	Hatchery	Stock	# Observed	# Estimated
2000	1997	0401010307	NAKAT INLET 101-11	NAKAT INLET	NEETS BAY	1	0
2001	1998	184045	R-Inch Cr	H-Inch Creek H	S-Inch Cr	1	0

Chapter 12 APPENDIX

12.1 Explanation of RSR, TA3 Report

The TA3 report is designed to provide a high-level aggregation of recoveries to assist with Selective Fishery Evaluation Committee (SFEC) analyses. The report provides a custom aggregation of recovery record counts (observed) by Tag Code and specially defined conceptual region (SFEC-Region) and type of fishery (SFEC-FisheryType) where SFEC-Region is a geographic entity based on PSC format fields Recovery Location Code and/or PSC Region code; SFEC-FisheryType is a broad fishery categorization value based on PSC format field Fishery.

Report characteristics:

- Tabular, fixed-field line format
- aggregates by columns: Tag Code, SFEC Region, SFEC FisheryType
- sorts by columns: Tag Code, SFEC Region, SFEC FisheryType.

where SFEC Region, SFEC FisheryType are described as follows:

- **SFEC-Region:** This comprises the following broadly categorized regions for SFEC purposes:
 - ALASKA: all one category
 - BRITISH COLUMBIA:
 - BC Marine North (where Recovery Location Code contains '2MN...')
 - BC Marine South (where Recovery Location Code contains '2MS...')

- WASHINGTON:
 - Columbia River (where RMIS Region is: LOCR, CECR, UPCR, SNAK)
 - Washington (includes all other WA recovery locations)
 - IDAHO: Columbia River (where RMIS Region is: UPCR, SNAK)
 - OREGON:
 - Columbia River (where RMIS Region is: LOCR, CECR, UPCR, SNAK)
 - Oregon Coast (includes all other OR recovery locations)
 - CALIFORNIA: all one category
- **SFEC-FisheryType:** Only PSC Fishery values that fall into defined 'commercial' or 'sport' categories are included in the report. (i.e. those in series ranges: 10 – 19, 20 – 29, 40 – 49). **All other fishery categories are considered not relevant and are excluded from the report.**

12.2 Table of RAR CRAS1 Management-Fisheries

The following table of fisheries is used in the RMIS Analysis Reporting system. These Management-Fisheries are 'mapped' to PSC Fishery codes and Recovery Sites coast-wide in the RMIS CWT database using a translation known as 'CRAS1'. CRAS1 has been used in research and analysis at the Northwest Indian Fisheries Commission (NWIFC), and by other fisheries analysts throughout the Pacific Northwest. The RMIS Analysis Reporting system can be modified to accommodate additional fishery-to-Recovery-Site translations.

Management Fishery Code	Management Fishery Name	Management Fishery Code	Management Fishery Name
01	Southeast Alaska Troll	49	Lummi Bay Net (WA Area 7D)
02	Southeast Alaska Net	50	Juan de Fuca Troll (WA Areas 5, 6,6C, 7,7A)
03	Southeast Alaska Sport	51	WA Area 5 Sport
04	North British Columbia Troll	52	WA Area 6 Sport
05	Central British Columbia Troll	53	Juan de Fuca Net (WA Areas 4B,5,6,6A,6C)
06	North/Central British Columbia Sport	54	Dungeness Net (WA Area 6D)
07	North British Columbia Net	55	WA Area 8 or 8-1 Sport (Skagit)
08	Central British Columbia Net	56	Skagit Marine Net (WA Area 8)
09	NW Vancouver Island Troll	57	WA Area 8-2 Sport (Stillaguamish-Snohomish)
10	SW Vancouver Island Troll	58	Stillaguamish/Snohomish Net (WA Area 8)
100	Southern British Columbia Troll	59	Tulalip Bay Net (Area 8D)
101	Canada General Net	60	WA Area 9 Sport (Discovery-Admiralty)
11	West Coast Vancouver Island Sport	61	WA Areas 6B and 9 Net
12	West Coast Vancouver Island Net	62	WA Area 9A Net (Port Gamble Bay)
13	Georgia/Juan de Fuca/Johnstone Str. Troll	63	WA Area 10 Sport (Seattle-Bainbridge)
14	Georgia/Juan de Fuca/Johnstone Str. Sport	64	WA Area 11 Sport (Tacoma-Vashon)
15	Georgia/Johnstone Straits Net	65	WA Area 10 Net
16	Fraser River Net	66	WA Area 10A Net
17	Juan de Fuca Net (Canadian Area 20)	67	WA Area 10B, 10C, 10D, 10F, 10G Net
18	WA Areas 4 and 4B Troll (Cape Flattery)	68	WA Area 10E Net
19	WA Area 4 Sport (Neah Bay)	69	WA Area 11 Net
20	WA Area 3 Troll (Quileute)	70	WA Area 11A Net

21	WA Area 3 Sport (La Push)	71	WA Area 12 Sport
22	WA Area 2 Troll (Grays Harbor)	72	Hood Canal Net (WA Areas 12,12B,12C,12D)
23	WA Area 2 Sport (Westport)	73	Quilcene Bay Net (WA Area 12A)
24	WA Area 1 Troll (Columbia River Mouth)	74	WA Area 13 Sport (South Sound)
25	WA Area 1 Sport (Illwaco)	75	WA Area 13 Net
26	North Washington Coastal Marine Net	76	WA Area 13A Net
27	Grays Harbor Net	77	WA Area 13C Net
28	Willapa Bay Net	78	WA Area 13D Net
29	Buoy 10 Sport	79	WA Areas 13E-13K Net
30	Tillamook Troll	80	Freshwater Sport
31	Tillamook Sport	81	Freshwater Net
32	Newport Troll	82	Juvenile Catch
33	Newport Sport	83	High Seas Catch
34	Coos Bay Troll	84	Freshwater Escapement
35	Coos Bay Sport	85	Alaska Coast Recovery
36	Brookings Troll	86	Gear and Location Unknown
37	Brookings Sport	87	BC General-Troll
38	Crescent City Troll	88	Oregon General-Troll
39	Crescent City Sport	89	Oregon-Calif General-Troll
40	Eureka Troll	90	California General-Troll
41	Eureka Sport	91	Alaska-Unknown or Mixed Gear
42	Fort Bragg Troll	92	Oregon-Unknown or Mixed Gear
43	Fort Bragg Sport	93	Columbia R-Unknown or Mixed Gear
44	Southern California Troll	94	California-Unknown or Mixed Gear
45	Southern California Sport	95	Washington General-Net
46	WA Area 7 Sport	96	Oregon Test Fishery
47	San Juan Net (WA Areas 7 and 7A)	97	Canada Aboriginal
48	Nooksack/Samish Net (WA Areas 7B, 7C, 7E)	98	Oregon General-Sport