## REGIONAL MARK PROCESSING CENTER

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## Summary of PSC Format V4.1 Changes

The Data Standards Working Group met in Portland, Oregon on Jun 3-4, 2008. From this meeting, the following changes are identified here for the principal data exchange document: CWT Data File Definition, Specification, and Validation. If you have any questions or comments regarding this summary, please visit the RMIS PSC Data Exchange Forum at: http://www.rmpc.org/forums.html. You may also contact PSMFC-RMPC at 503-595-3100 or email mailto:rmpc.admin@psmfc.org .

## Notes on this summary of proposed changes:

-- The order of items presented here is by data file type.
-- At the time that any changes are adopted and take effect the RMPC will have the validation program modified as needed for the new requirements.
-- Any text for V4.1 which has had substantial changes or additions from the version 4.0 specification will appear as grey text .
-- Any text for V4.1 which is being deleted from the version 4.0 specification will appear as strikethrough text .

## RELEASE FILE CHANGES:

Release fields 16,17; First Release Date, Last Release Date :
render *both* dates required by striking text in requirement rules as follows..

| Fld <br> \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 16 | First Release Date | 8 | No | YYYMMDD | Date in which releasing began for this release group |
|  | first release_date |  |  |  | If the release occurs on a single day, report that date for both first and last date fields. \#f a release oecurredover |
|  |  |  |  |  | more than one day but only one date is known, then leave the unknown date field (first or last) absent |
|  |  |  |  |  | If present, must be of the form 'YYMMMMDD' where: |
|  |  |  |  |  | MM must be in the range '01' through '12'. May be absent |
|  |  |  |  |  | DD must be in the range ' 01 ' through the last day of the month referenced by M . Must be absent if M . is absent. May be absent when MM is present |
|  |  |  |  |  | This date must be less than or equal to today |
|  |  |  |  |  | first_release_date must be less than or equal to last_release_date |
|  |  |  |  |  | Required if last release date is absent and study integrity is not ' $D$ ' |
|  |  |  |  |  | If present, YYYY portion of date is required. |
|  |  |  |  |  |  |
| 17 | Last Release Date | 8 | No | YPYMMDD | Date in which releasing ended for this release group |
|  | last release_date |  |  |  | If the release occurs on a single day, report that date for both first and last date fields. \#f arelease өeeurredover |
|  |  |  |  |  | more than one day but only one date is known, then leave the unknown date field (first or last) absent |
|  |  |  |  |  | If present, must be of the form 'YMYMMDD' where: |
|  |  |  |  |  | MM must be in the range '01' through '12'. May be absent |
|  |  |  |  |  | DD must be in the range ' 01 ' through the last day of the month referenced by M . . Must be absent if M . is absent. May be absent when MM is present |
|  |  |  |  |  | This date must be less than or equal to today |
|  |  |  |  |  | last release_date must be greater than or equal to first_release_date |
|  |  |  |  |  | Required if first release date is absent and study integrity is not ' $D$ ' |
|  |  |  |  |  | If present, YYYY portion of date is required. |

Release fields 28, 30, 32, 34; CWT 1-st Mark, CWT 2-nd Mark, Non CWT 1-st Mark, Non CWT 2-nd Mark :
add (highlighted) text as follows...

| Fld <br> \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | CWT 1 ${ }^{\text {st }}$ Mark | 4 | No | Lookup | Mark(s) on CWT fish corresponding to count value in cut_ $1^{\text {st }}$ _ mark_count |
|  | cut_1 ${ }^{\text {st }}$. mark |  |  |  | If present, must match a mark code from Mark Coding table in chapter 11 |
|  |  |  |  |  | Required if record_code is ' $T$ |
|  |  |  |  |  | Must be absent if record code is ' N ' |
|  |  |  |  |  | Required if corresponding cut_1st mark_count is present |
|  |  |  |  |  | Must be absent if corresponding cut_ $1^{\text {st }}$ _ mark_count is absent |
|  |  |  |  |  | Must not begin with '9' if brood year greater than 1994 |
|  |  |  |  |  | See chapter 15 for further discussion of the use of this field. |
| $\begin{aligned} & \text { Fd } \\ & \# \\ & \hline \end{aligned}$ | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| 30 | CWT 2 ${ }^{\text {nd }}$ Mark | 4 | No | Lookup | Mark(s) on CWT fish corresponding to count value in cut_ $2^{\text {nd }}$ _ mark_count |
|  | cut $2^{\text {nd }}$ _mark |  |  |  | If present, must match a mark code from Mark Coding table in chapter 11 |
|  |  |  |  |  | Must be absent if record_code is ' N ' |
|  |  |  |  |  | Required if corresponding cwt $2^{\text {nd }}$ mark count is present |
|  |  |  |  |  | Must be absent if corresponding cut $2^{\text {nd }}$ _ mark_count is absent |
|  |  |  |  |  | Must not contain the same value as cutt $1^{\text {st }}$ _mark |
|  |  |  |  |  | Must not begin with '9' if brood year greater than 1994 |
|  |  |  |  |  | See chapter 15 for further discussion of the use of this field. |


| $\begin{aligned} & \text { Fd } \\ & \# \\ & \hline \end{aligned}$ | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 32 | Non CWT 1 ${ }^{\text {st }}$ Mark | 4 | No | Lookup | Mark(s) on Non-CWT fish corresponding to count value in non_cht_1st mark_count |
|  | non_cut $1^{\text {st }}$ _mark |  |  |  | If present, must match a mark code from Mark Coding table in chapter 11 |
|  |  |  |  |  | Required if record_code is ' N ' |
|  |  |  |  |  | Required if corresponding non_cwt $1^{\text {st }}$ _mark count is present |
|  |  |  |  |  | Must be absent if corresponding non_cut_ $1^{\text {st }}$ mark count is absent |
|  |  |  |  |  | Must not begin with '9' if brood year greater than 1994 |
|  |  |  |  |  | See chapter 15 \& 16 for further discussion of the use of this field. |


| Fld \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | Non CWT $2^{\text {nd }}$ Mark | 4 | No | Lookup | Mark(s) on Non-CWT fish corresponding to count value in non_cwt $2^{\text {nd }}$ _mark_count |
|  | non_cut $2^{\text {nd }}$ mark |  |  |  | If present, must match a mark code from Mark Coding table in chapter 11 |
|  |  |  |  |  | Required if corresponding non_cwt $2^{\text {nd }}$ _mark_count is present |
|  |  |  |  |  | Must be absent if corresponding non_cut $2^{\text {nd }}$ _mark_count is absent |
|  |  |  |  |  | Must not contain the same value as non_cut_1 ${ }^{\text {st }}$ _ mark |
|  |  |  |  |  | Must not begin with '9' if brood year greater than 1994 |
|  |  |  |  |  | See chapter 15 \& 16 for further discussion of the use of this field. |

## Release field-12; Related Group ID :

add notes:
Within a new dataset, if Related Group Type (field 11) is 'D' then, at least 1 record must exist with the "Ad Clip" condition where:

1) cwt_1st_mark starts with '5' OR cwt_2nd_mark starts with '5';

AND 2) (cwt_1st_mark_count + cwt_2nd_mark_count) >0
AND at least 1 record must exist with the "no Ad Clip" condition where
$\begin{array}{lll} & \text { 1) cwt_1st_mark starts with '0' OR cwt_2nd_mark s } \\ \text { AND } & \text { 2) (cwt 1st mark count }+ \text { cwt } 2 \text { nd mark count) }>0\end{array}$
AND all records involved must have the same Related Group Id (field 12), Species (field 13), and Brood Year (field 15).

## Release field-35; Non CWT 2-nd Mark Count :

| Fld \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 35 | Non CWT $2^{\text {nd }}$ Mark Count | 9 | No | Numeric | Number with No CWT Tag |
|  | non_cut_2 ${ }^{\text {nd }}$ _mark_count |  |  |  | Corresponds to mark code value in non_cut $2^{\text {nd }}$ _ mark |
|  |  |  |  |  | Required if corresponding non_cwt_2 ${ }^{\text {nd }}$ _mark is present and study integrity is not ' $D$ ' |
|  |  |  |  |  | Must be absent if corresponding non_cut_ $2^{\text {nd }}$ _ mark is absent |


|  |  |  |  |  | Must be absent if non_cut_1st mark_count is zeroor absent |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | If present, must be numeric in the range: '0' through '999999999' |

Release field-37; Tag Loss Rate; field-38, Tag Loss Days; field-39, Tag Loss Sample Size :
add phrases to text, other changes as follows...

| Fld \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 37 | Tag Loss Rate | 6 | No | Numeric | Proportion of fish which shed the CWT from the tag loss sample (expressed as a decimal) |
|  | tag_loss_rate |  |  |  | If present, must be numeric in the range: '0' through ' 1 ' |
|  |  |  |  |  | No implied decimal. Decimal optional with up to 4 digits after the decimal point |
|  |  |  |  |  | Must be absent if record_code is ' N ' and tag type is not ' 16 ' |
|  |  |  |  |  | May be present if record_code is ' N ' and tag type is ' $166^{\prime}$ |
|  |  |  |  |  |  |
| 38 | Tag Loss Days | 3 | No | Numeric | Number of days fish held to measure tag loss; Fish tagged and released the same day are assigned '0' |
|  | tag_loss_days |  |  |  | If present, must be numeric in the range: '0' through '999' |
|  |  |  |  |  | Must be absent if record_code is ' N ' and tag type is not ' 16 ' |
|  |  |  |  |  | May be present if record_code is ' N ' and tag_type is ' 16 ' |
|  |  |  |  |  |  |
| 39 | Tag Loss Sample Size | 5 | No | Numeric | Number of fish sampled to calculate tag loss rate |
|  | tag_loss_sample_size |  |  |  | If present, must be numeric in the range: '0' through '99999' |
|  |  |  |  |  | Must be absent if record_code is ' N ' and tag_type is not ' 16 ' |
|  |  |  |  |  | May be present if record_code is ' N ' and tag type is ' 16 ' |

Release field-8 (and Recovery field 30); Tag Type :

| add phrases to text.. | Format/Use | Description \& Validation |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{8}$ | PSC Common Name | Max <br> Cols | Reqd | For |  |
| $\mathbf{8}$ | Tag Type | 2 | No | Lookup | Code to indicate type of tag used for release group; If present, must match one of the following: |
|  | tag type |  |  | 'O' | =Standard binary ( 1 mm ) |



## CHAPTER 15 CHANGES:

These are proposed changes to Chapter 15 (Release Count and Mark Code Fields) to reflect the decisions from the meeting on June 3,4. All references to ' 4.0 ' are to be changed to '4.1'.

## Section 'F'; Version 3.2 Release Count and Mark Code Fields:

Remove this section ( F ) and 'Figure 1' as version 3.2 is now historic (i.e. 2 revisions in the past). Rename 'Figure-2' to 'Figure-1'.

## Section 'G'; Version 4.0 Release Count and Mark Code Fields:

excerpt shown here with proposed new wording as follows..

The intention of the version 4.0 count and mark code fields is to provide a physical view of release counts and marks. Changes to the method of reporting release counts and marks were necessary due to the desequestering of the adipose clip to indicate a coded-wire tagged fish. The changes enable the user to calculate the number of adipose clipped fish in a release group, whether or not they are coded-wire tagged. The changes also permit the reporting of up to two different marks for CWT or NonCWT (fish that do not contain a CWT) fish in a release.

Each Reporting Agency may have a different usage for each release count and mark code field. The agency may determine the particular order of usage of count and mark code fields; therefore no information is implied by the ordering of values in count and mark code fields.

Under version 4.0 specifications, the following fields are used to report release counts and mark codes (Figure 2):
...[Figure-2:](Figure-2:)...

## Section 'H'; Version 3.2 / Version 4.0 Mark and Count Fields - Examples:

Remove 'Table 1' from this section as version 3.2 is now historic (i.e. 2 revisions in the past). Rename 'Table 2' to 'Table 1'.

## RECOVERY FILE CHANGES:

Recovery field-24; Length:
add rule and changes as follows:

| Fdd <br> $\#$ | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 24 | Length | 4 | No | Numeric | Length in millimeters |
|  | length |  |  |  | lf present, must be numeric in the range: '1' through '1600' |
|  |  |  |  |  | Must not be greater than 1600mm if Species (field 7) is '1' (Chinook) |
|  |  |  |  |  | Must not be greater than 1300mm if Species (field 7) is not '1' |
|  |  |  |  |  | These fields must all have values or must all be absent: |
|  |  |  |  |  | - length |
|  |  |  |  |  | - length code |
|  |  |  |  |  | - length type |

## Recovery field-27; Detection Method:

add rule and changes as follows:

| Fld <br> $\#$ | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{2 7}$ | Detection Method | 1 | No | Lookup | Code indicating the method used to detect the presence of a tag on the fish; If present, must match one of the <br> following: |
|  | detection_method |  |  | 'E | = lectronic; used only when all fish in the sample pass through electronic detection, regardless of clip status <br> =Visual; used when all fish in the sample are first identified for adipose fin clip, regardless of the use or timing of <br> electronic detection |
|  |  |  |  | V |  |
|  |  |  |  |  | Required if catch_sample_id is present |
|  |  |  |  |  | If present, must match the value of detection_method in corresponding Catch/Sample file |

## Recovery field-28; Tag Status

Rescind the added value: ' 5 ' = Unclipped, positive-signal, head not taken
I.e. the value ' 5 ' which had been added to Tag Status on a provisional basis is now removed.

## Recovery field-29; Tag Code:

add rule: Required if Tag Status is ' 1 ' or ' 9 '

## Recovery field-41; Estimated Number:

add rule: If present and greater than zero, then catch_sample_id should be present and, if present, must match an existing catch_sample_id in the Catch/Sample file.

## Recovery field-35; Sample Type:

change text by striking some phrases and adding other phrases...

| Fd \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 35 | Sample Type | 1 | Yes | Lookup | Must match one of the folloving: |
|  | sample_type |  |  | '1' | =In-sample recoveries from a sampled fishery with known catch; estimated_number is nen_zere. Also used to repert unsampled catch |
|  |  |  |  |  | estimated number must be absent or greater than '0' |
|  |  |  |  | '2' | =Voluntary recoveries from a sampled fishery with known catch; Awareness estimates are available; |
|  |  |  |  |  | estimated number must be absent or greater than '0' (e.g., Puget Sound Sport) |
|  |  |  |  | '3' | =Voluntary recoveries from an unsampled fishery. Awareness approximations may be possible yielding non-zero estimated number othervise estimated number should be absent. (e.g., Hoh River freshwater sport fishery) |
|  |  |  |  | '4' | =In-sample or voluntary recoveries from a sampled fishery with unknown catch; |
|  |  |  |  |  | estimated_number must be absent. (e.g., Stream Survey) |
|  |  |  |  | '5' | =Voluntary or select recoveries from a sampled fishery with known catch and no awareness estimates available; Use of these recoveries leads to double counting; see also Note \#3 to follow |



## Recovery field-6; Recovery ID

| Fld <br> $\#$ | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| :--- | :--- | :---: | :--- | :--- | :--- |
| 6 | Recovery ID | 10 | Yes | Primary | Unique ID's assigned to each recovery record by the recovery agency |
|  | recovery id |  |  | Lookup | Once reported, must remain the same forever for this snout recovery |
|  |  |  |  |  | Must be unique for a given reporting agency and run year |
|  |  |  |  |  | Must not contain embedded blanks |

## Recovery field-15; Adclip Selective Fishery

introduce new values; (At the point of adoption of version 4.1, the RMPC will change all existing blank values to ' $N$ ' where Run Year < 1998)

| Fd \# | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | Adclip Selective Fishery | 1 | No | Lookup | Alag to indicate whether this <recovery> came from a fishery where only adipose clipped fish were allowed to be harvested. |
|  | adclip_selective fishery |  |  |  | Required if Run Year (field 8) > 2007 |
|  |  |  |  |  | Must match one of the following: |
|  |  |  |  | 'S' | = Yes /adclip selective fishery |
|  |  |  |  | 'M | = Yes /mixed selective fishery (ad-clipped plus unclipped fish) ; see note below |
|  |  |  |  | N | = Not selective |
|  |  |  |  |  | Must have the value ' $S$ ' or ' $M$ if fishery is selective for ad-clips |
|  |  |  |  |  |  |
| NOTE for addlip selective fishery 'M: Refers to ad-clipped and unclipped catch. For example: a bag liimit of 1 unclipped but multiple clipped fish. |  |  |  |  |  |

## CATCH / SAMPLE FILE CHANGES:

Catch/Sample field-18; Sample Type:
add value '7', other changes to notes

| Fld <br> $\#$ | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 8}$ | Sample Type | 1 | Yes | Lookup | Must match one of the following: |
|  | sample_type |  |  | '1' | = In-sample recoveries from a sampled fishery with known catch; estimated_number is non-zero. Aso used to report <br> unsampled catch |
|  |  |  |  |  | estimated_number must be absent or greater than 'O’ |
|  |  |  |  | '2' | =Voluntary recoveries froma sampled fishery with known catch; Awareness estimates are available; |
|  |  |  |  |  | estimated number must be absent or greater than '0' (e.g., Puget Sound Sport) |


|  |  |  |  | '4' | =In-sample or voluntary recoveries from a sampled fishery with unknown catch; |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | estimated number must be absent. (e.g., Stream Survey) |
|  |  |  |  | '6' | =Mark Incidence - Indirect Sample: Voluntary recoveries from indirectly sampled sport fishery, estimated_number are calculated from sport_mark_inc_sampl_obs_ads in sport_mark_incidence_sampl_size from the corresponding Catch Sample record |
|  |  |  |  | '7' | =Pass-Through Sample: Recoveries that are selectively removed from certain in-river sampling programs; The migrant fish are subject to subsequent destination sampling. |
|  |  |  |  |  | number_caught must equal number_sampled. see also Note \#3 to follow |
|  |  |  |  |  |  |

## Notes for sample_type:

1) Four keys are used to distinguish the type of sample:
a) Sample: In-sample or Voluntary
b) Fishery: Sampled or Unsampled
c) Catch:
d) Awareness: Avai
2) Awareness estimates (Sample Type Code 2) are based on current year's data, while awareness approximations (Sample Type Code 3) are based on extrapolations of data from other periods or locations.
3) "Pass-through" Sampling (Sample Type Code 7) In certain sampling programs, some fish are released while selected fish are killed and snouts removed. The non-sampled fish are subject to subsequent destination sampling and the lack of reporting would result in underestimation of the tag codes. In this sampling situation the number of fish pulled out of the pass-through equals the number sampled and generally gives an estimated number of 1.
4) Any associated Catch/Sample and Recovery records must have the same value for sample type.

## Catch/Sample field-14; Adclip Selective Fishery

introduce new values; (At the point of adoption of version 4.1, the RMPC will change all existing blank values to ' N ' where Catch Year < 1998)

| Fd <br> $\#$ | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 4}$ | Adclip Selective Fishery | 1 | No | Lookup | Fag to indicate whether this <recovery> came from a fishery where only adipose clipped fish were allowed to be <br> havested. |
|  | adclip_selective_fishery |  |  |  | Required if Catch Year (field 8) $>2007$ |



## CATCH \& EFFORT FILE CHANGES:

## Catch\&Effort field-21; Effort Quantity

change from required (Yes) to not required (No)
Catch\&Effort; Add new field; Field title: "Adclip Selective Fishery"

| Fld \# | PSC Common Name | Max <br> Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| <22> | Adclip Selective Fishery | 1 | No | Lookup | Aag to indicate whether this record came from a fishery where only adipose clipped fish were allowed to be harvested. |
|  | adclip_selective fishery |  |  |  | Required if Catch Year (field 8) > 2007 |
|  |  |  |  |  | Must match one of the following: |
|  |  |  |  | 'S' | = Yes /adclip selective fishery |
|  |  |  |  | 'M | = Yes /mixed selective fishery (ad-clipped plus unclipped fish); see note below |
|  |  |  |  | ' N ' | = Not selective |
|  |  |  |  |  | Must have the value ' S ' or ' M if fishery is selective for ad-clips |
|  |  |  |  |  |  |

## DESCRIPTION FILE CHANGES:

Description field-10; Line:
Eliminate this field since the Description value (see below) is being changed to contain the entire data description in one line.

## Description field-11; Description:

| Fld | PSC Common Name | Max Cols | Reqd | Format/Use | Description \& Validation |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | Description | 2000 | Yes | AphaNumeric | Textual description to further explain meaning of data for a file_type and one consecutive span of file years |
|  | description |  |  |  | May span multiple lines (up to-999) in which case fields 1 -9 must be repeated for each line |
|  |  |  |  |  | May contain leading blanks |

