

UPDATE ON SFEC ANALYTICAL WORKING GROUP (AWG)

Mark Meeting April 3-4, 2013
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SFEC AWG

- ◉ The AWG is tasked with reviewing MSF proposals and evaluating post-facto impacts of MSFs
 - Annual review reports – 2013 in works
 - MSF proposals
 - MSF reports
 - Methods for estimation of unmarked mortalities in MSFs
 - Chinook and Coho DIT reports
 - Lessons learned report

RECREATIONAL ANGLING IMPACT DATABASE RAID

- RAID is a database system
 - Located on the NWIFC website
 - Has three reports providing estimates of sport fishery impacts, observed CWTs, and estimates of unmarked DIT mortalities for Chinook MSFs in Puget Sound 2003-2011.
- RAID is the result of a joint effort of NWIFC and WDFW staff.
- User Manual is available

DATABASE COMPONENTS.

- ◉ *Sport Fishery Impact Estimate Table (Appendix Table A1).*
 - Estimates of number retained and released by size (legal or sublegal) and mark status (marked or unmarked) categories including estimates of variance.
- ◉ *CWT Recovery Table (Appendix Table A3).*
 - Records of CWT recoveries for the MSFs.
- ◉ *Release Table (Appendix Table A2).*
 - Release information associated with all CWTs recovered in the MSFs and all release information for DIT groups recovered.

REPORTS AVAILABLE

- ⦿ Sport post-season report with variances
- ⦿ CWT caught in area-period
- ⦿ CWT DIT unmarked mortalities

Sport post-season report with variances

JUST

SFEC post season report with variances | CWT Caught in Area-Period | CWT DIT Unmarked Mortalities | Tagcode Release Report | Tagcode Recovery (Detail) | Welcome |

MSF Reports

MSF Raw Data

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Criteria

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Species Statarea Year

1 5 2003
6 2004
7 2005
8 2006
9 2007
10

SFEC post season report with variances.

														Estimated Number									
Fishery Information					MS Management				Sampling Parameters					Unmarked Fish				Marked Fish					
RtrYear	Strata	Statarea	First Date	Last Date	Spec	Mins	Maxs	Cwt Samp	Cwt Detec	Headp	Source	Meth Est Rel	Retained	Released	Retained	Released	Legal	Sub Legal	Legal	Sub Legal	Legal	Sub Legal	
2003	season	5	05-JUL-03	03-AUG-03	1	52.42		D	E	Y	S	3	2250.73	336.32	225.07	1656.41	53.2	3435.39	0	5174.09	58,935.38	136,799.50	7,120.45
2004	season	5	01-JUL-04	08-AUG-04	1	52.42		D	E	Y	S	3	2705.81	404.32	193.79	1168.9	0	4017.25	0	2462.19	46,212.81	107,268.20	1,523.55
2005	season	5	01-JUL-05	10-AUG-05	1	52.42		D	E	Y	S	3	1520.06	227.13	100.35	1210.05	23.03	1418.4	25.91	1459.2	23,809.54	55,266.16	449.35
2006	season	5	01-JUL-06	21-AUG-06	1	52.42		D	E	Y	S	3	3105.34	464.02	195.55	1010.31	10.18	3125.07	6.79	2212	57,048.61	132,420.00	939.55
2007	season	5	01-JUL-07	09-AUG-07	1	52.42		D	E	Y	S	3	2969.48	443.72	280.14	1371.41	23.38	2508.99	93.51	1117.62	57,477.73	133,416.10	1,521.55
2008	season	5	01-JUL-08	09-AUG-08	1	52.42		D	E	Y	S	3	2773.41	414.42	45.1	64.83	0	1868.73	0	329.78	7,250.21	16,829.02	126.55
2009	season	5	01-JUL-09	06-AUG-09	1	52.42		D	E	Y	S	3	4843.28	723.71	1114.84	9822.66	77.51	6209.92	361.7	14308.96	280,796.10	1,266,870.00	18,010.55
2010	season	5	01-JUL-10	15-AUG-10	1	52.42		D	E	Y	S	3	5480.54	815.94	242.17	3163.15	13.61	4980.83	0	4139.81	294,819.20	962,089.20	1,340.55
2011	season	5	01-JUL-11	15-AUG-11	1	52.42		D	E	Y	S	3	4258.87	636.38	275.78	1593.31	70.17	9275.32	21.59	5318.89	148,885.70	1,013,396.00	1,633.55

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Report Criteria

Species	Statarea	Year
Chinook	5	2003
	6	2004
	7	2005
	9	2006
	10	2007

CWT Caught in area-period

Statarea	Year	Strata	Release State	Release Region	Release Location	Hatchery Location	Observed Tags	% of Observed	Dits
5	2003	season	BC	FRTH	R-Chehalis R	H-Chehalis River H	1	1.37	0
5	2003	season	BC	FRTH	R-Chilliwack R	H-Chilliwack River H	3	4.11	3
5	2003	season	BC	GST	R-Nanaimo R	H-Nanaimo River H	1	1.37	0
5	2003	season	CA	CECA	WICKLAND OIL NET PEN	NIMBUS FISH HATCHERY	1	1.37	0
5	2003	season	CA	SJOA	SAN JOAQ RIV JERSEY PT	MOK R FISH INS	1	1.37	0
5	2003	season	OR	LOCR	BIG CR (LWR COL R)	BIG CR HATCHERY	3	4.11	0
5	2003	season	WA	CECR	SPRING CR 29.0159	SPRING CR NFH	1	1.37	0
5	2003	season	WA	HOOD	PURDY CR 16.0005	GEORGE ADAMS HATCHRY	2	2.74	2
5	2003	season	WA	LOCR	COWLITZ R 26.0002	COWLITZ SALMON HATCH	19	26.03	0
5	2003	season	WA	LOCR	ELOCHOMAN R 25.0236	ELOCHOMAN HATCHERY	1	1.37	0
5	2003	season	WA	LOCR	GREEN R 28.0323	NORTH TOUTLE HATCHRY	1	1.37	0
5	2003	season	WA	LOCR	KALAMA R 27.0002	KALAMAFALLS HATCHRY	1	1.37	0
5	2003	season	WA	LOCR	WASHOUGAL R 28.0159	WASHOUGAL HATCHERY	1	1.37	0
5	2003	season	WA	MPS	BIG SOOS CR 09.0072	SOOS CREEK HATCHERY	4	5.48	4
5	2003	season	WA	MPS	DIRU CR 10.0029	PUYALLUP TRIBAL HATCHERY	1	1.37	0
5	2003	season	WA	MPS	GROVERS CR HATCHERY	GROVERS CR HATCHERY	8	10.96	8
5	2003	season	WA	MPS	PORTAGE BAY/SHIP CNL	PORTAGE BAY HATCHERY	4	5.48	0
5	2003	season	WA	NPS	TULALIP CR 07.0001	BERNIE GOBIN HATCH	4	5.48	0
5	2003	season	WA	NPS	WALLACE R 07.0940	WALLACE R HATCHERY	1	1.37	1
5	2003	season	WA	NWC	SOOES R 20.0015	MAKAH NFH ON SOOES R	1	1.37	0
5	2003	season	WA	SKAG	CASCADE R 03.1411	MARBLEMOUNT HATCHERY	1	1.37	1
5	2003	season	WA	SNAL	BIG CANYON ACCL POND	LYONS FERRY HATCHERY	1	1.37	0
5	2003	season	WA	SNAL	SNAKE R-LOWR 33.0002	LYONS FERRY HATCHERY	4	5.48	0
5	2003	season	WA	SPS	CLEAR CR 11.0013C	CLEAR CREEK HATCHERY	3	4.11	3
5	2003	season	WA	SPS	KALAMA CR 11.0017	KALAMA CR HATCHERY	2	2.74	0
5	2003	season	WA	UPCR	COLUMBIA NEAR WELLS	WELLS HATCHERY	1	1.37	0
5	2003	season	WA	UPCR	SIMILKAMEEN R 490325	SIMILKAMEEN HATCHERY	1	1.37	0
5	2003	season	WA	UPCR	WENATCHEE R 45.0030	EASTBANK HATCHERY	1	1.37	0
report total:							73	100.00	22

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CWT
caught
in area-
period

CWT DIT unmarked mortalities

QUEST

SPEC post season report with variances. | CWT Caught in Area-Period | CWT DIT Unmarked Mortalities | Tagcode Release Report | Tagcode Recovery (Detail) | Welcome |

MSF Reports

MSF Raw Data

Criteria

Submit

Species Statarea Rtn Year Rel Mort Rate

Chinook 5 20X 0.1

CWT DIT Unmarked Mortalities

Release Location	Brood Year	Species	Statarea	Return Year	Strata	DIT Group Id	Observed				Retained			Unmarked				
							Observed Tags	Lambda	Unmarked	Marked	Marked	Var(Marked)	Unmarked	Var(unmarked)	Encounters	Var(Encounters)	Mortalities	Var(Mortality)
CLEAR CREEK HATCHERY	2007	1	5	2010	season	142008D1003	8	0.99	0	8	28.49	147.98	0.00	0.00	28.28	145.78	2.83	
GEORGE ADAMS HATCHRY	2005	1	5	2010	season	0420081055	1	1.00	0	1	3.93	10.75	0.00	0.00	3.93	10.75	0.39	
GEORGE ADAMS HATCHRY	2006	1	5	2010	season	0419970331	1	1.05	0	1	3.34	8.94	0.00	0.00	3.51	9.88	0.35	
GEORGE ADAMS HATCHRY	2007	1	5	2010	season	0420081010	22	1.01	0	22	81.15	848.11	0.00	0.00	81.57	857.84	8.16	
GROVERS CR HATCHERY	2005	1	5	2010	season	142008D101	1	1.24	1	0	0.00	0.00	3.93	10.75	0.00	16.87	3.93	5
GROVERS CR HATCHERY	2006	1	5	2010	season	142007D1001	3	1.00	0	3	11.20	36.80	0.00	0.00	11.17	36.56	1.12	
GROVERS CR HATCHERY	2007	1	5	2010	season	142008D002	19	1.00	0	19	72.31	662.65	0.00	0.00	72.44	695.23	7.34	
H-Childwack River H	2007	1	5	2010	season	032008H00000396	8	1.00	0	8	28.49	147.98	0.00	0.00	28.54	148.48	2.85	
KENDALL CR HATCHERY	2007	1	5	2010	season	0420081103	3	1.00	0	3	11.20	36.80	0.00	0.00	11.19	36.72	1.12	
SAMISH HATCHERY	2006	1	5	2010	season	0419970348	1	1.00	0	1	3.34	8.94	0.00	0.00	3.33	8.87	0.33	
SAMISH HATCHERY	2007	1	5	2010	season	0420081011	15	1.02	0	15	56.00	445.02	0.00	0.00	57.40	467.51	5.74	
SOOS CREEK HATCHERY	2006	1	5	2010	season	0420071024	1	1.00	0	1	3.93	10.75	0.00	0.00	3.92	10.71	0.39	
SOOS CREEK HATCHERY	2007	1	5	2010	season	0420081001	8	1.00	0	8	28.49	147.98	0.00	0.00	28.48	147.93	2.85	
SPRING CR NPH	2007	1	5	2010	season	072008March	2	1.00	0	2	7.86	24.80	0.00	0.00	7.83	24.41	0.78	
SPRING CR NPH	2007	1	5	2010	season	072008May	1	1.00	0	1	3.34	8.94	0.00	0.00	3.33	8.89	0.33	

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HOW TO USE THE RECREATIONAL ANGLING IMPACT DATABASE AND REPORTING SYSTEM.

- ◉ First, access RAID through the NWIFC Site.
 - Connect to NWIFC site at <http://access.nwifc.org>
 - At the bottom of the page under Internal Resources, click on Web Applications
 - Choose RAID to access database and reporting system.
 - Enter Login and Password.
 - Login: Guest
 - Password: Guest

The Login Page

Login

Welcome to RAID – the Recreational Angling Impact Database

The Recreational Angling Impact Database (RAID) is a mark-selective fishery (MSF) database containing estimates of the numbers of salmon released and retained, number of mortalities, and information on coded-wire tags (CWTs) recovered in MSFs. The database currently includes the ability to produce reports on sport fishery impacts, CWTs observed in the fishery samples, and estimates of marked and unmarked double index tag (DIT) mortalities in MSFs. The development and implementation of this database has been a joint effort of the Washington Department of Fish and Wildlife (WDFW) and the Northwest Indian Fisheries Commission (NWIFC).

Currently the database has these estimates for Chinook salmon mark-selective fisheries in Puget Sound statistical areas (WDFW Catch Areas 5 through 13) for 2003-2010.

User Name

Password

[User's Manual for RAID.](#)

For access to previous technical reports on Chinook mark-selective fisheries go [here](#).

The following report describes the creel survey methods used to estimate the number of Chinook harvested and released. [Peterson & Balzell wdfw01357.pdf](#)

The following report describes the methods used to estimate impacts to CWT and DIT groups in the mark-selective fisheries. [ConradMchugh2008_nwfrb_n02.pdf](#)