

Dan Webb

2008 Mark Meeting

- RMPC Web Site Updates
- Status of CWT Data Files
- Discussion of Data Errors

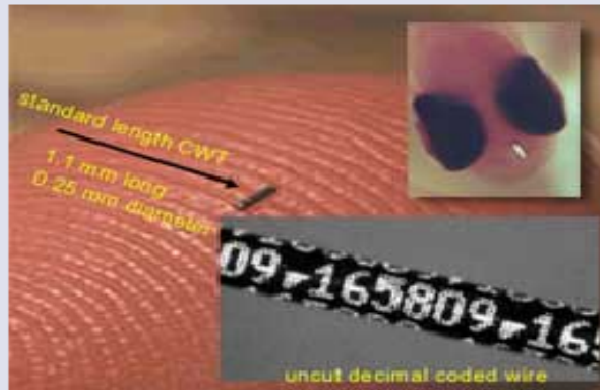


CWT Program Overview

[← Return to Overview](#)

Slide 1 of 5

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The invention of micro-sized coded wire tags (up to 1.5 mm length) that could be easily implanted into the tough nasal cartilage of juvenile salmonids (see figure) greatly changed marking studies because of the numerous advantages over fin clipping.

The first tags were developed in the 1960's and carried a dozen different colors and up to five longitudinal stripes enabling many different release groups of fish to be identified. Binary coded tags were later introduced in 1971 by Northwest Marine Technology, Inc. quickly replacing the color coded tags because of the greatly improved readability and the exceptional

number of available codes. In the late 1990s the new decimal coded tags were introduced further increasing the availability of unused codes while improving accuracy and readability. This will be more than adequate for many years at today's tagging rates.

The coded wire tag (CWT) is widely used by fisheries agencies on the West Coast as a major information collection tool for stocks of salmon and steelhead (*Oncorhynchus* spp.) Resource management projects include hatchery contribution studies, differential treatment studies, fishery contribution studies, and a variety of other related studies which are important for fisheries management and research.

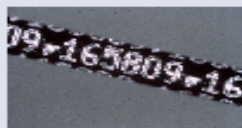


Image Gallery

Click on a thumbnail to see more images.

[Back to Overview](#)

NOTE: Images in these galleries are available to the public but not for profit



Tagging

Images of the CWT's and the process in which salmonids are tagged. Includes images of tagging trailers and equipment used in the process.



Sampling

Images of sampling processes at fisheries, spawning grounds and hatcheries.



Recovery

Images of CWT extraction at the "Head Lab".



Data Management

Images of the data flow, hardware, people and agencies behind data management for the Coded Wire Tag database.



Hatcheries

Images of various hatcheries and egg taking process.

www.rmpec.org/image-gallery.html

Related Documents and Publications

[Regional Agreements Document](#)

A regional agreement worked out by the Mark Committee for marking and tagging pacific coast salmonids.

[Report of the Expert Panel on the Future of the Coded Wire Tag Program for Pacific Salmon](#)

The 2005 Pacific Salmon Commission report on the present and future use of coded wire tags in salmon management off the Pacific Coast of North America.

[Final Draft Action Plan in Response to the CWT Expert Panel Recommendations](#)

March 2008 response to the Report of the Expert Panel review of the coded wire tag program by the Coded Wire Tag Workgroup.

[Recommendations for Application of Genetic Stock Identification \(GSI\) Methods to Management of Ocean Salmon Fisheries](#)

Special Report of the GSI Steering Committee and the Pacific Salmon Commission's Committee on Scientific Cooperation.

[1989 Locations Schema](#)

Document drafted in 1989 to explain how each agency creates it's location codes.

<http://www.rmhc.org/publications.html>

Clickable Links

By Run Year and Reporting Agency as of Wed Mar 26 09:52:23 2008

Process status:

- = Partially validated
- = Fully validated/not yet available
- = Fully validated and available

Explanation:












Help

Year	ADFG	CDFG	CDFD	FWS	IDFG	NIFC	NMFS	ODFW	QDNR	WDFW	Year
2007	2008/01/18	2008/01/25	2008/03/19				2008/02/14	2008/01/18		2008/02/12	2007
2006	2008/01/18	2008/03/25	2008/02/07	2008/01/29	2007/06/26	2008/01/18	2008/02/14	2008/01/18	2008/02/08	2008/01/25	2006
2005	2007/03/07	2007/01/18	2008/02/07	2007/10/03	2007/04/16	2007/10/02	2008/02/07	2008/02/12	2008/02/07	2007/11/05	2005
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www.rmhc.org/news-and-data-status.html



Annual Mark Meeting Minutes

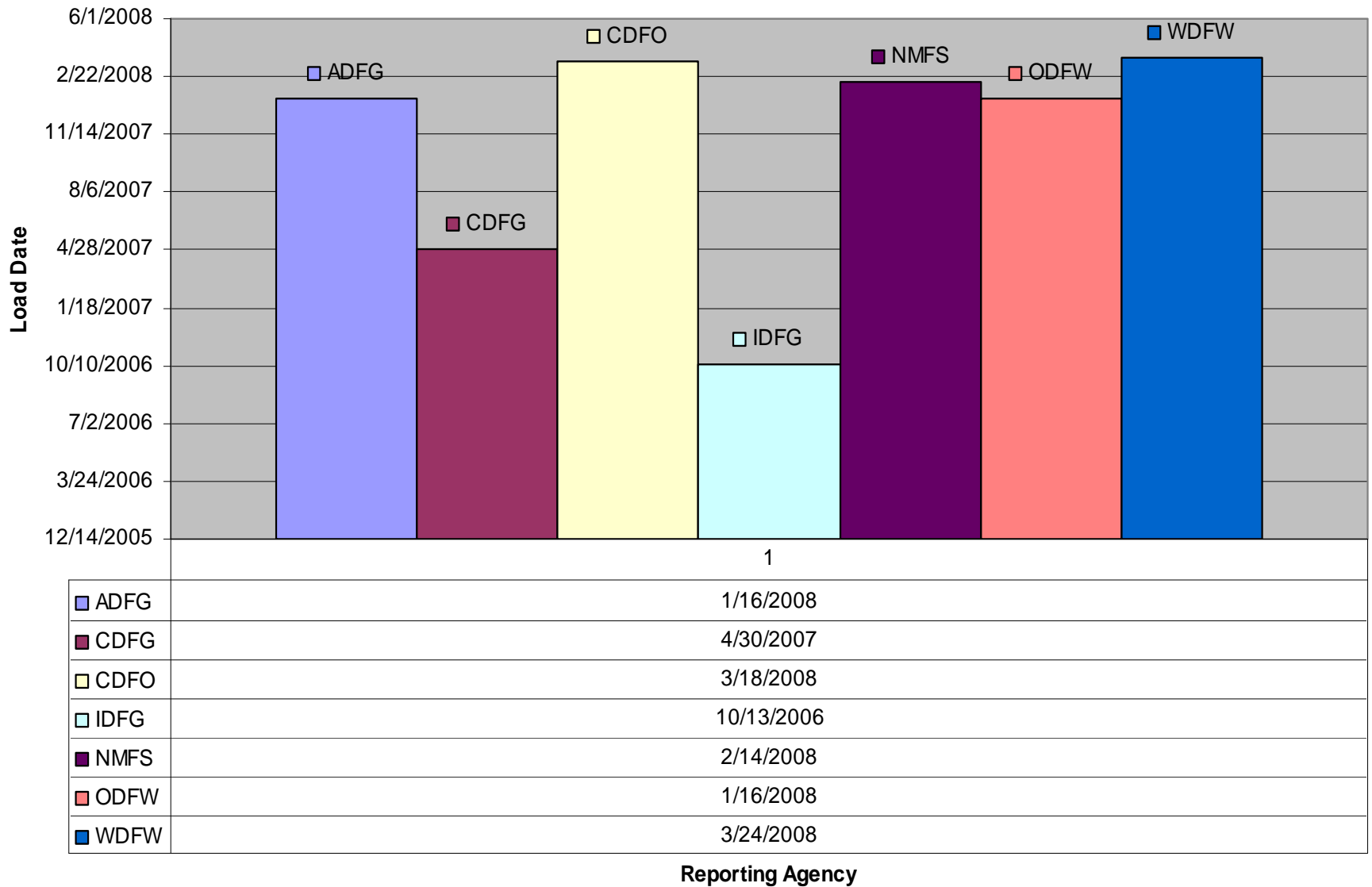
 2007 Minutes	April 25-26, 2007 - Kah-nee-ta, Warm Springs, Oregon
 2007 Documents	Presentations and documents from the 2007 meeting
 2006 Minutes	April 26-27, 2006 - Port Angeles, Washington
 2005 Minutes	April 20-21, 2005 - Tofino, British Columbia
 2004 Minutes	May 12-14, 2004 - Lewiston, Idaho
 2003 Minutes	May 21-23, 2003 - Sitka, Alaska
 2002 Minutes	April 17-19, 2002 - Pacific Grove, California
 2001 Minutes	April 18-20, 2001 - Newport, Oregon
 2000 Minutes	April 19-21, 2000 - Silverdale, Washington

www.rmpec.org/annual-mark-meeting-minutes-2.html

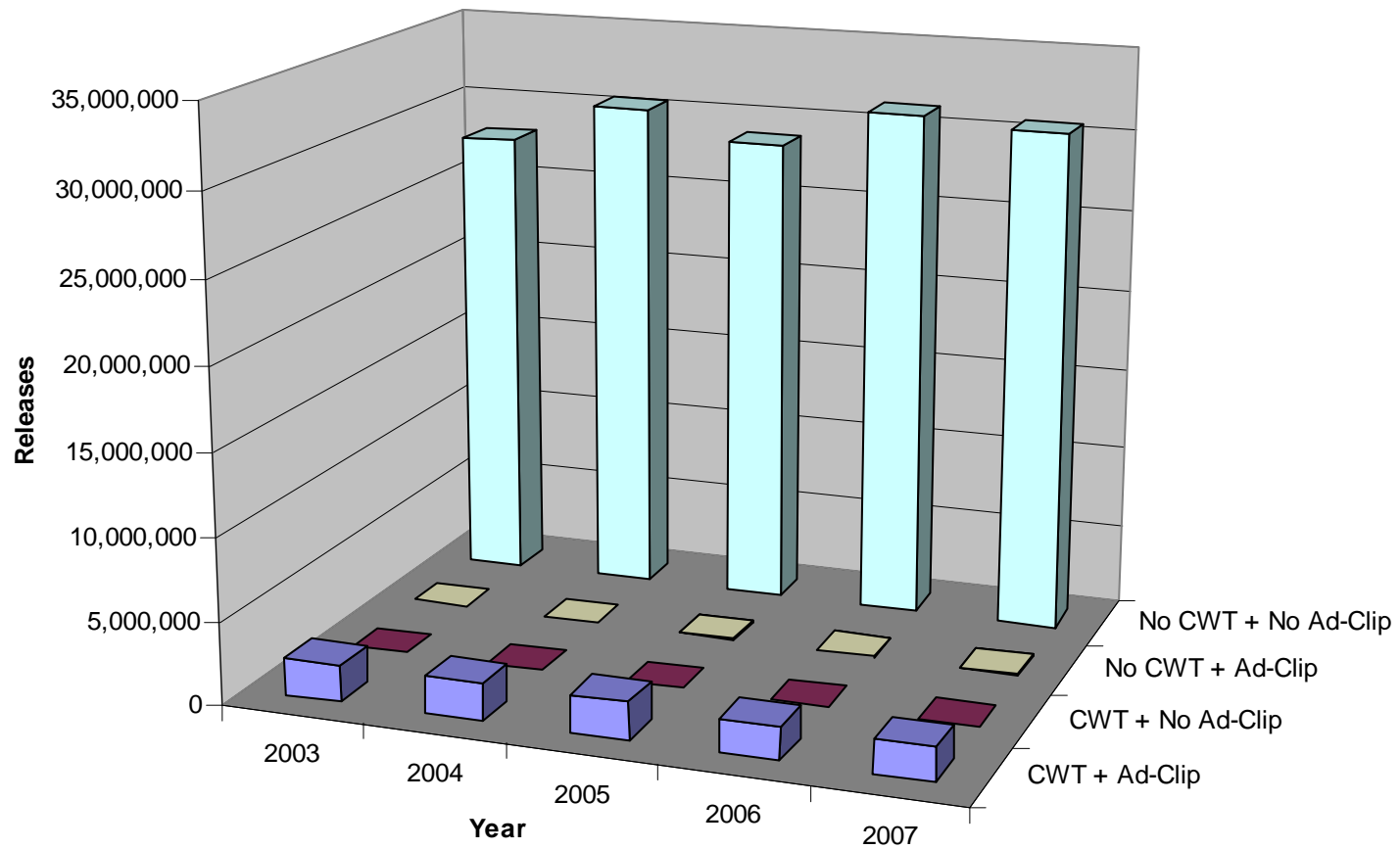
Status of CWT Data Files



Load Dates of Locations By Agency

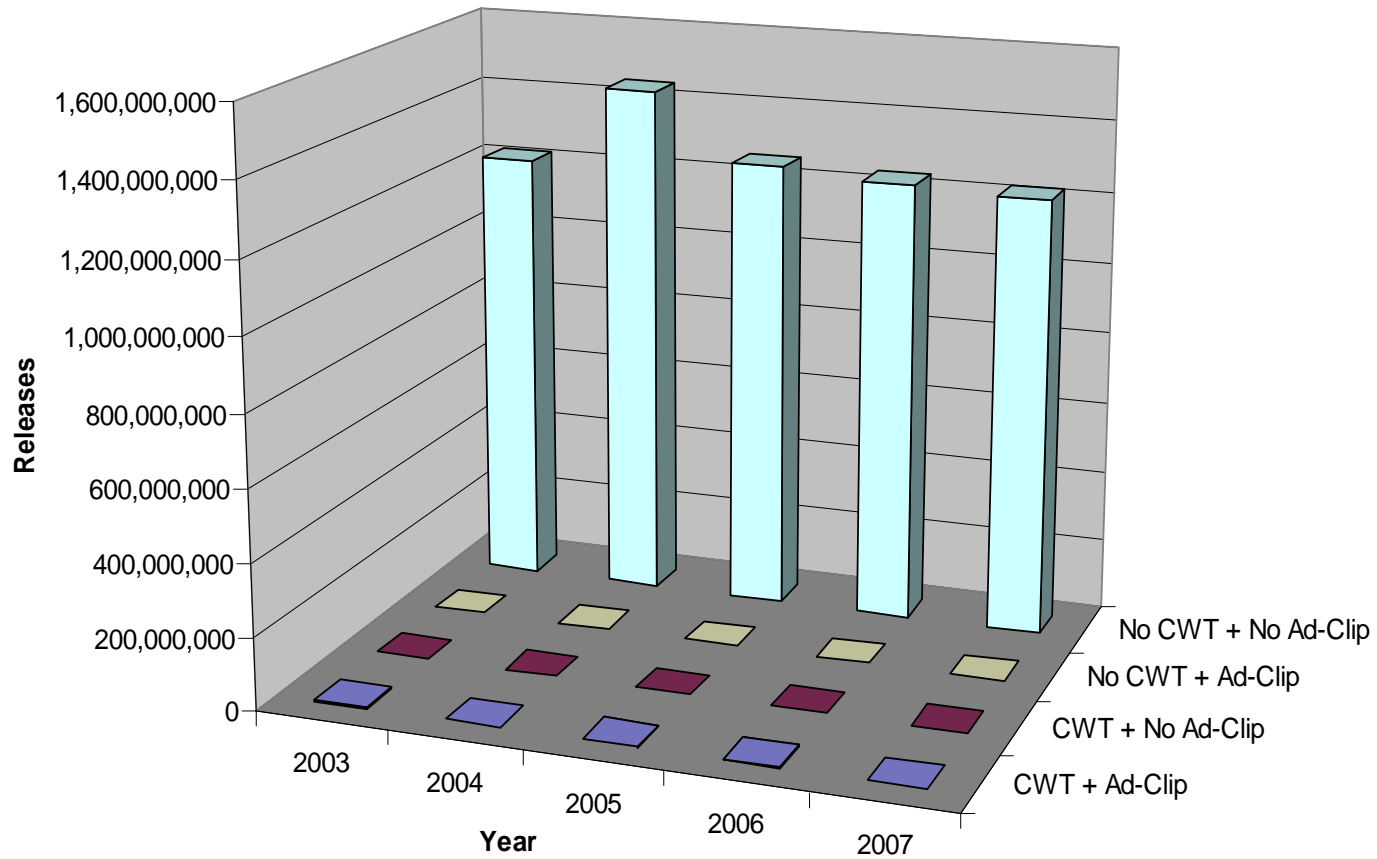


ADFG Releases Chinook, Coho & Steelhead Combined



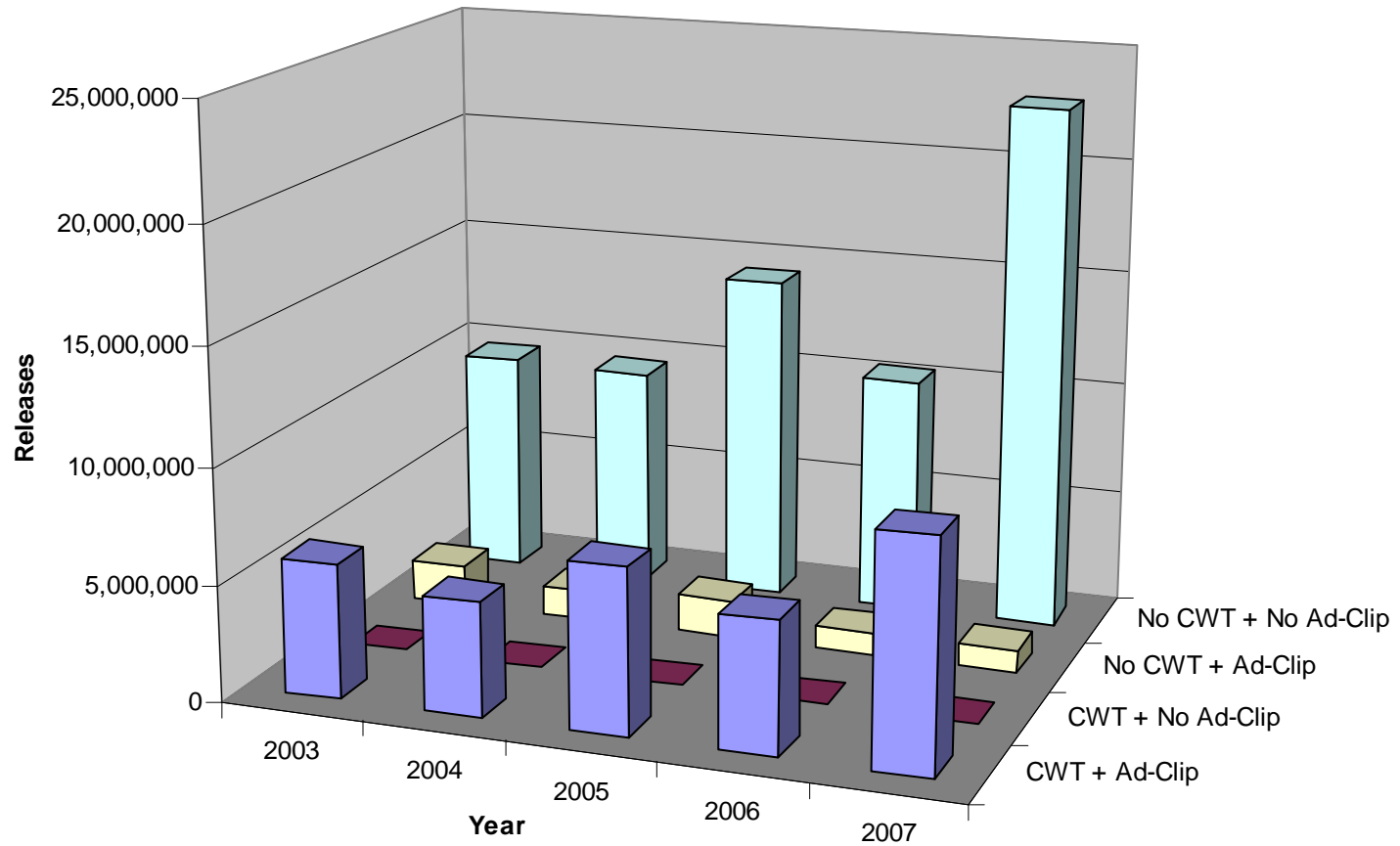
	2003	2004	2005	2006	2007
CWT + Ad-Clip	2,259,469	2,273,603	2,292,681	2,015,857	2,033,718
CWT + No Ad-Clip	0	0	0	0	0
No CWT + Ad-Clip	74,291	59,215	63,091	63,371	35,112
No CWT + No Ad-Clip	27,917,663	30,397,117	28,738,171	31,129,171	30,627,176

ADFG Releases All Species Combined



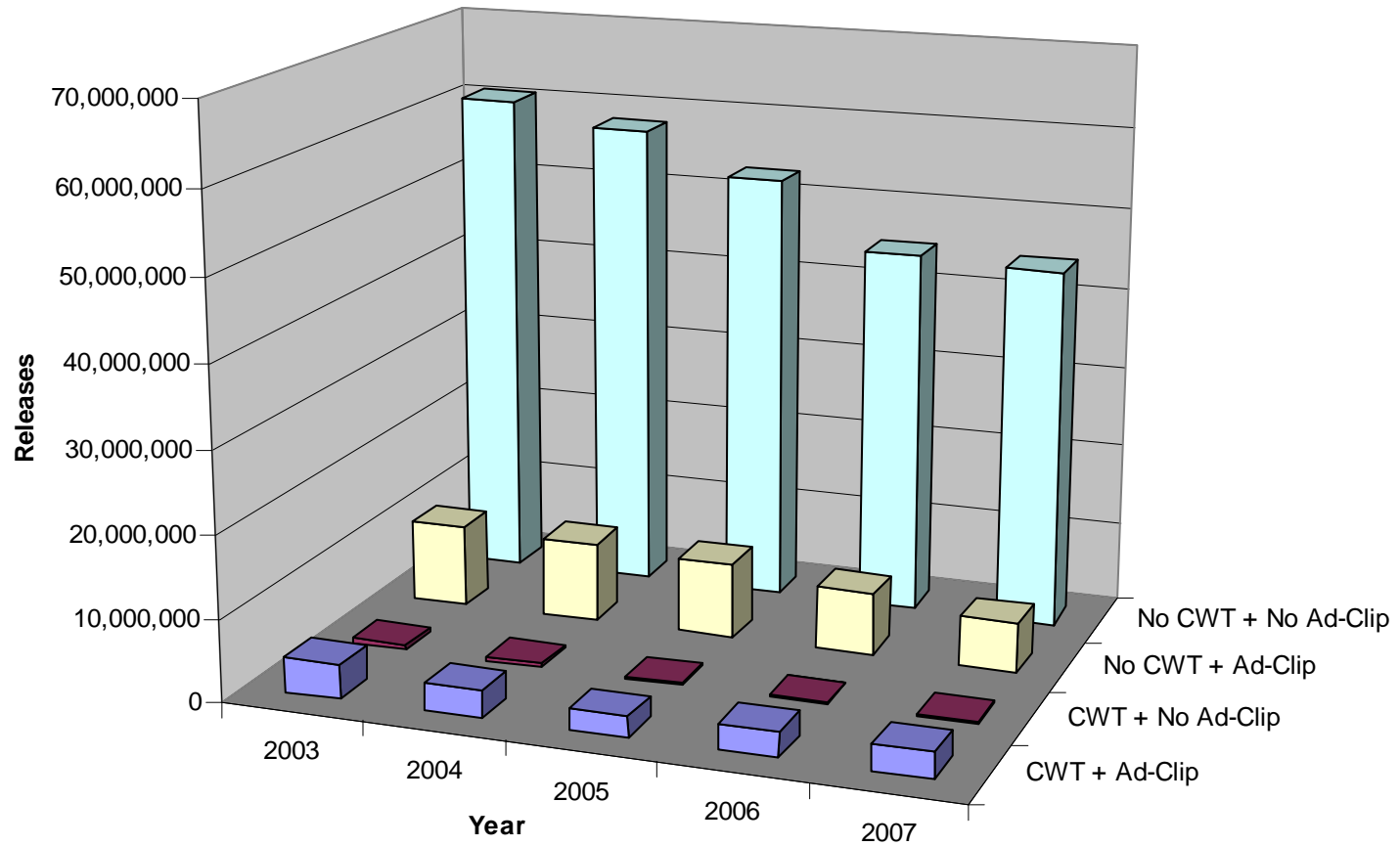
	2003	2004	2005	2006	2007
CWT + Ad-Clip	2,543,387	2,285,117	2,303,295	2,028,509	2,036,178
CWT + No Ad-Clip	0	0	0	0	0
No CWT + Ad-Clip	76,973	69,678	66,136	64,256	35,142
No CWT + No Ad-Clip	1,219,777,278	1,443,989,904	1,258,270,991	1,234,434,674	1,222,254,750

CDFG Releases All Species Combined



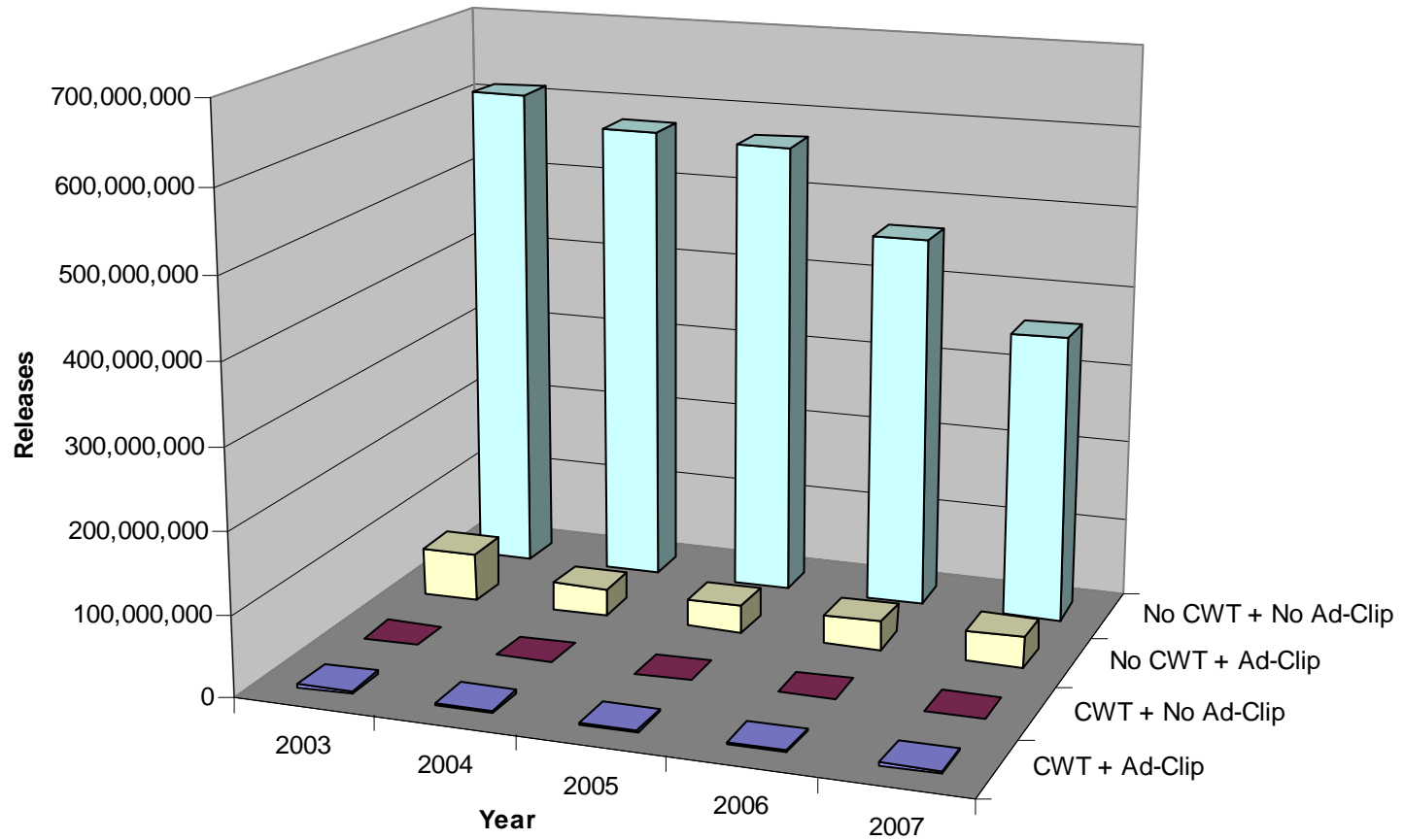
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	5,813,817	4,931,953	7,149,258	5,700,252	9,837,728
■ CWT + No Ad-Clip	0	0	0	325	0
■ No CWT + Ad-Clip	1,805,306	1,333,639	1,641,523	960,420	958,234
■ No CWT + No Ad-Clip	9,688,783	9,581,641	14,307,012	10,341,989	22,793,216

CDFO Releases Chinook, Coho & Steelhead Combined



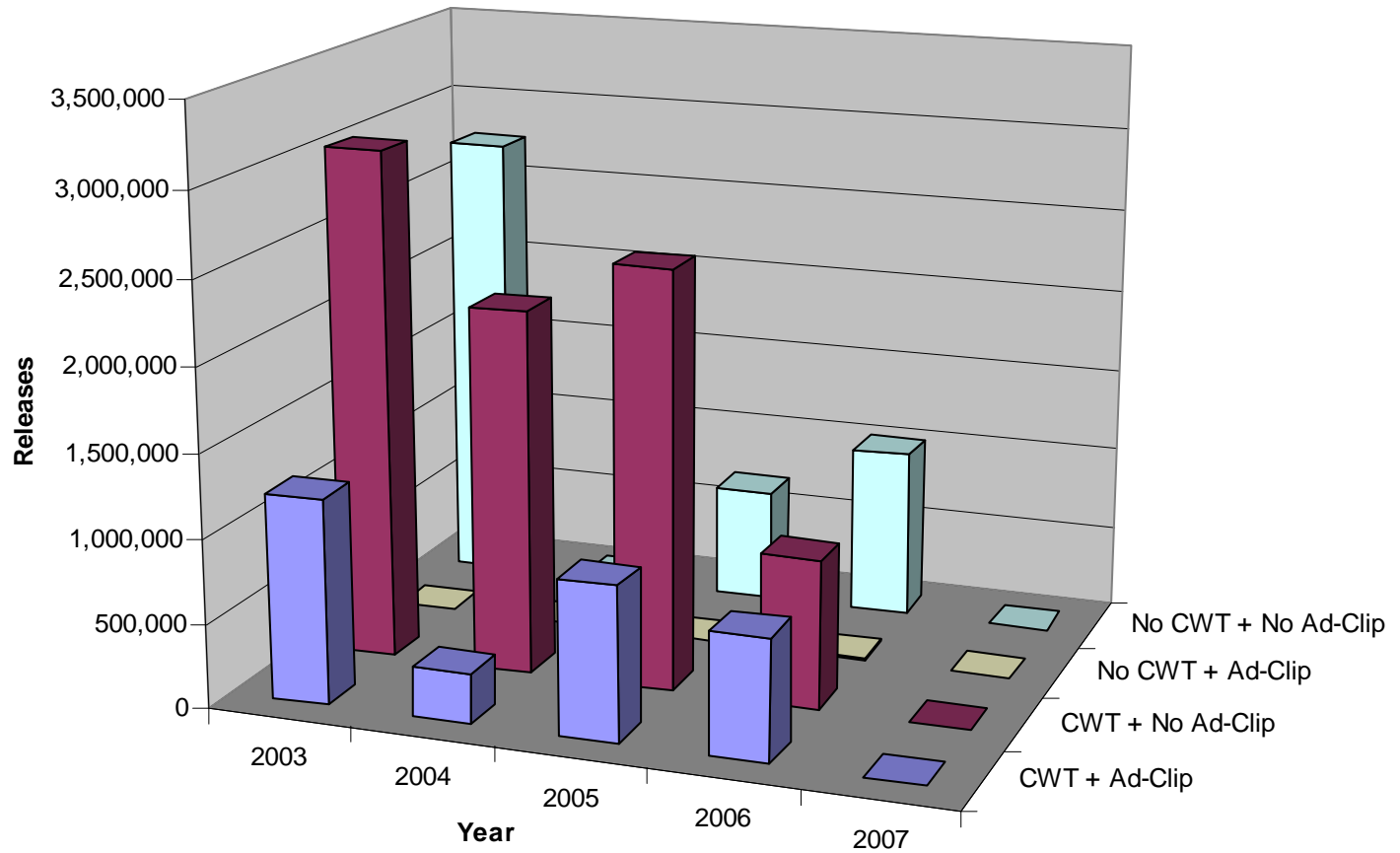
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	4,296,534	3,265,969	2,523,843	3,118,508	3,099,150
■ CWT + No Ad-Clip	598,695	438,521	263,082	210,787	210,451
■ No CWT + Ad-Clip	10,129,952	9,795,333	9,226,381	7,663,074	6,058,303
■ No CWT + No Ad-Clip	60,495,450	57,945,399	52,832,354	44,956,287	44,286,255

CDFO Releases All Species Combined



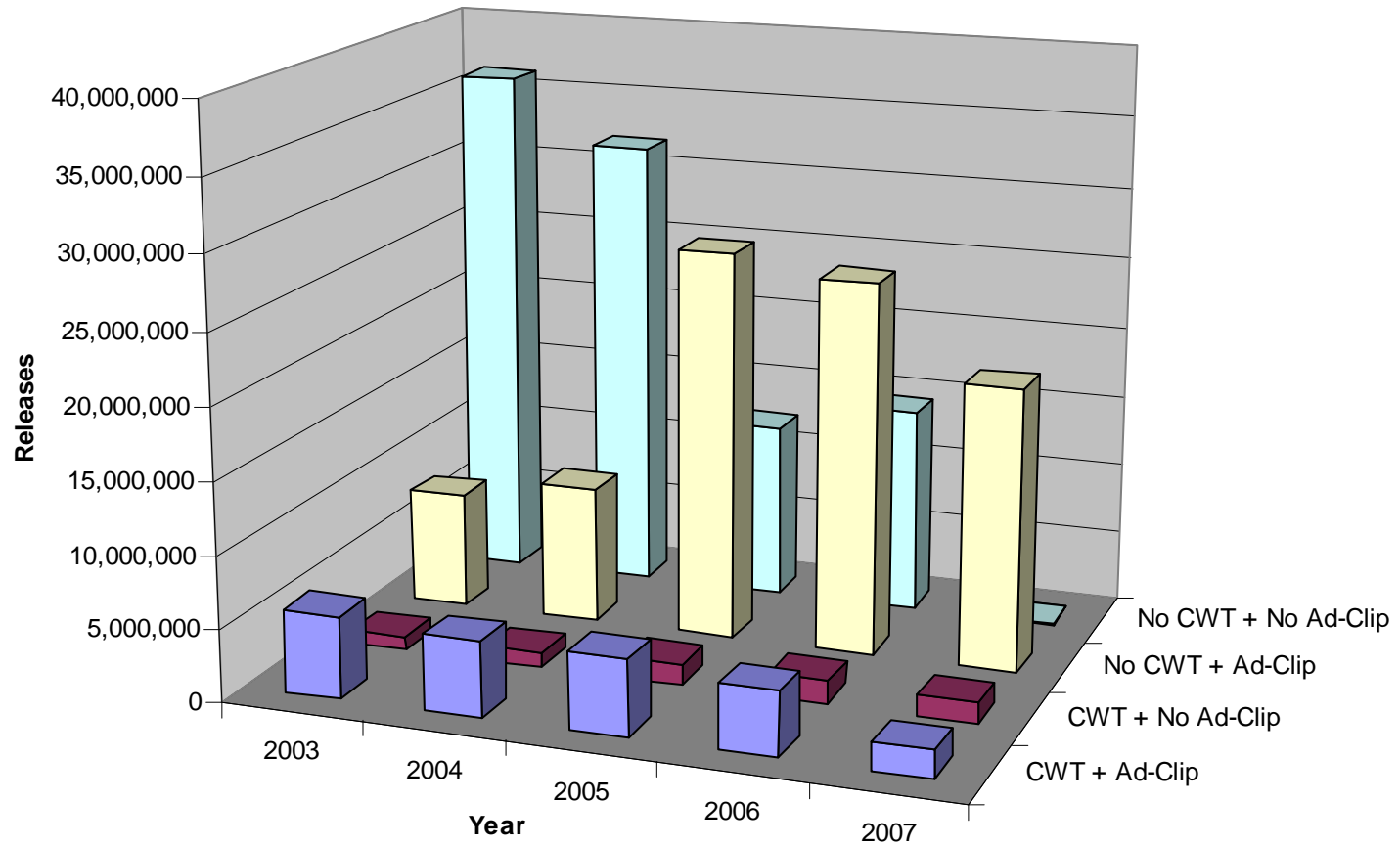
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	4,296,534	3,265,969	2,523,843	3,118,508	3,099,150
■ CWT + No Ad-Clip	598,695	438,521	263,082	210,787	210,451
■ No CWT + Ad-Clip	60,409,834	35,189,125	34,800,349	35,495,993	37,354,155
■ No CWT + No Ad-Clip	612,140,362	575,130,793	568,687,169	466,075,955	358,833,348

CRFC Releases All Species Combined



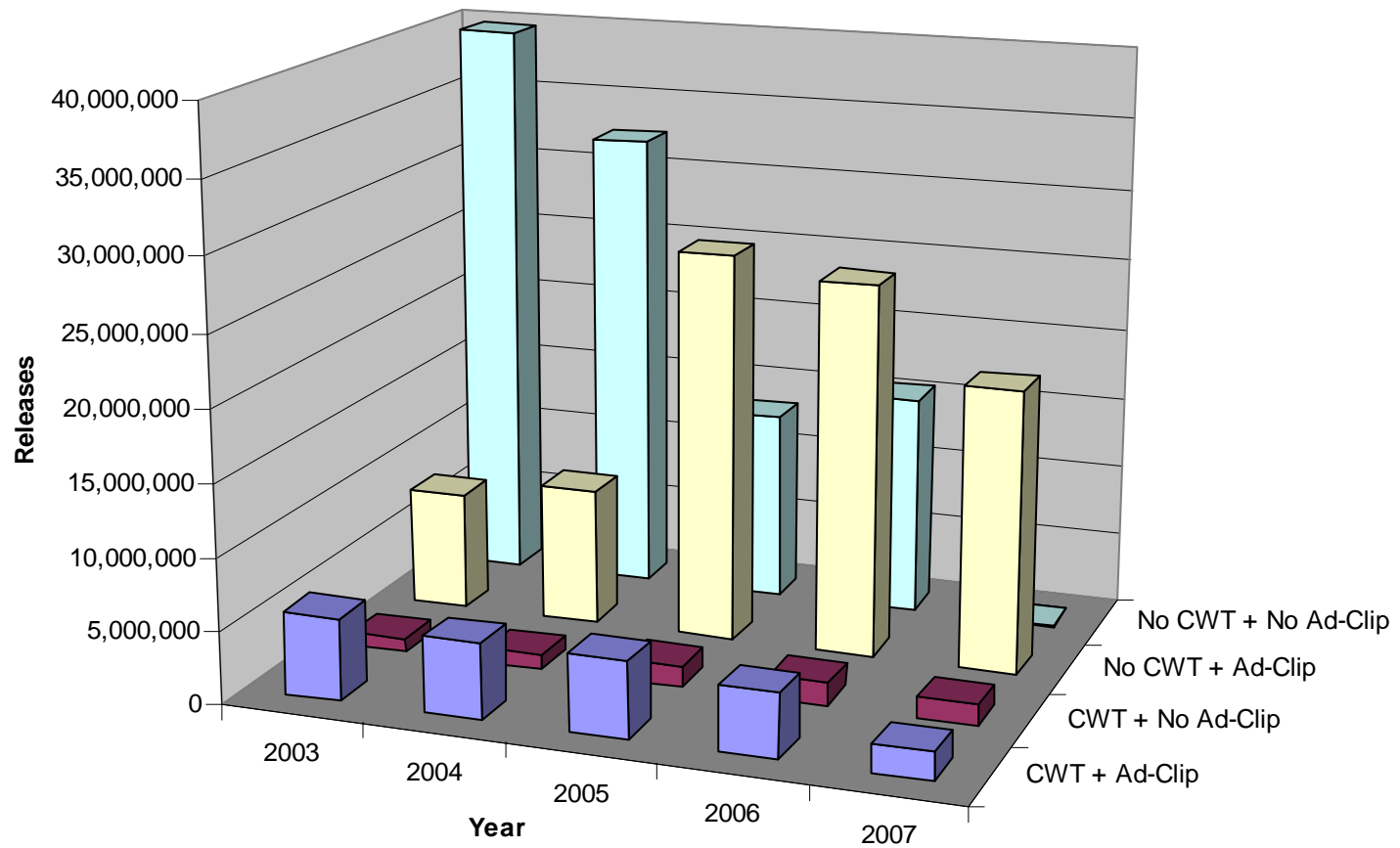
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	1,223,124	294,090	921,021	725,154	0
■ CWT + No Ad-Clip	3,042,387	2,173,935	2,494,858	888,825	0
■ No CWT + Ad-Clip	6,634	4,179	1,982	7,696	0
■ No CWT + No Ad-Clip	2,744,865	28,764	683,945	1,016,857	0

FWS Releases Chinook, Coho & Steelhead Combined



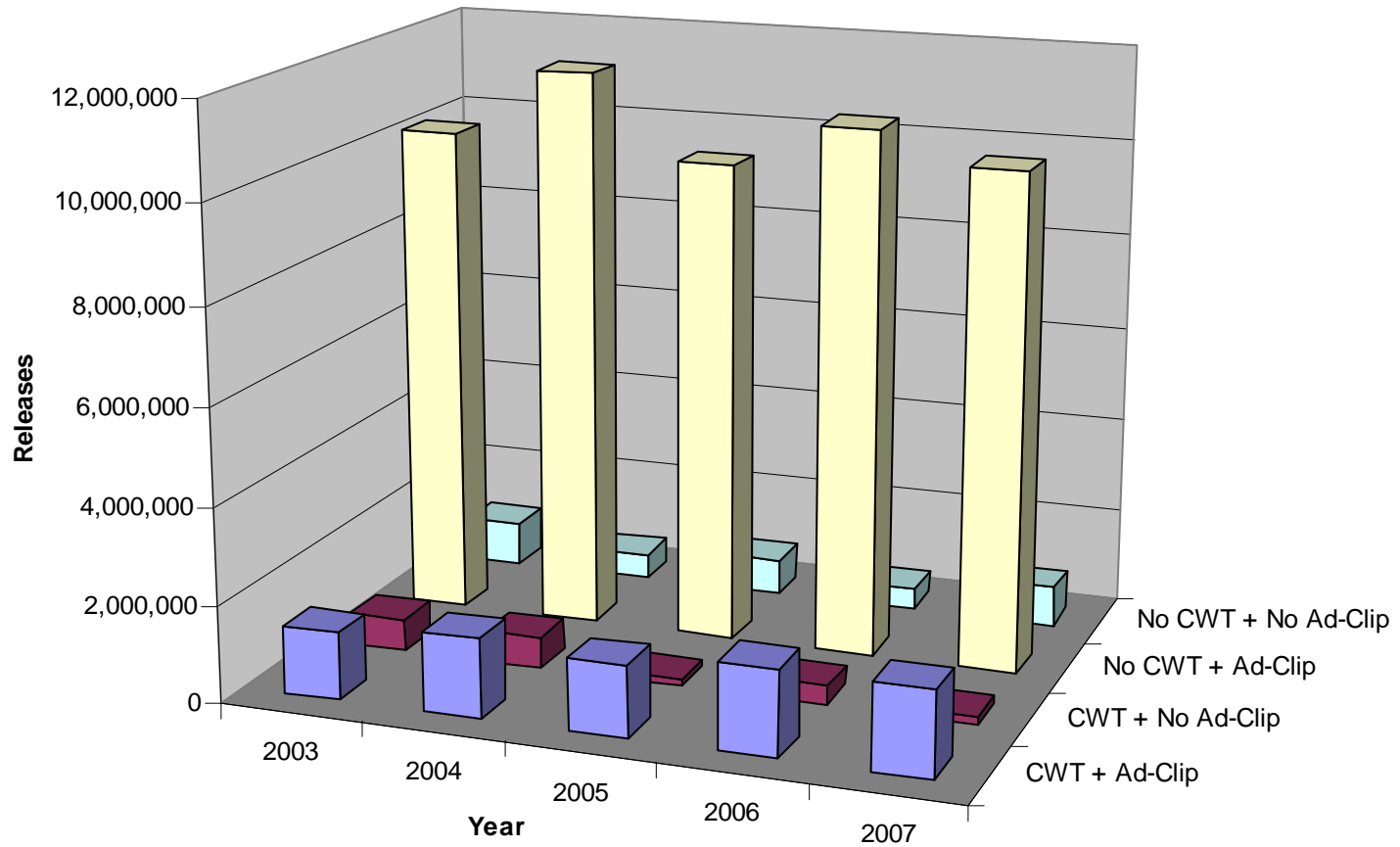
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	5,715,720	5,253,173	5,284,642	4,460,674	1,897,375
■ CWT + No Ad-Clip	941,226	1,016,688	1,458,697	1,618,563	1,387,137
■ No CWT + Ad-Clip	8,046,596	9,567,998	27,174,947	25,931,564	19,653,564
■ No CWT + No Ad-Clip	36,194,770	31,776,508	12,259,482	14,425,053	15,281

FWS Releases All Species Combined



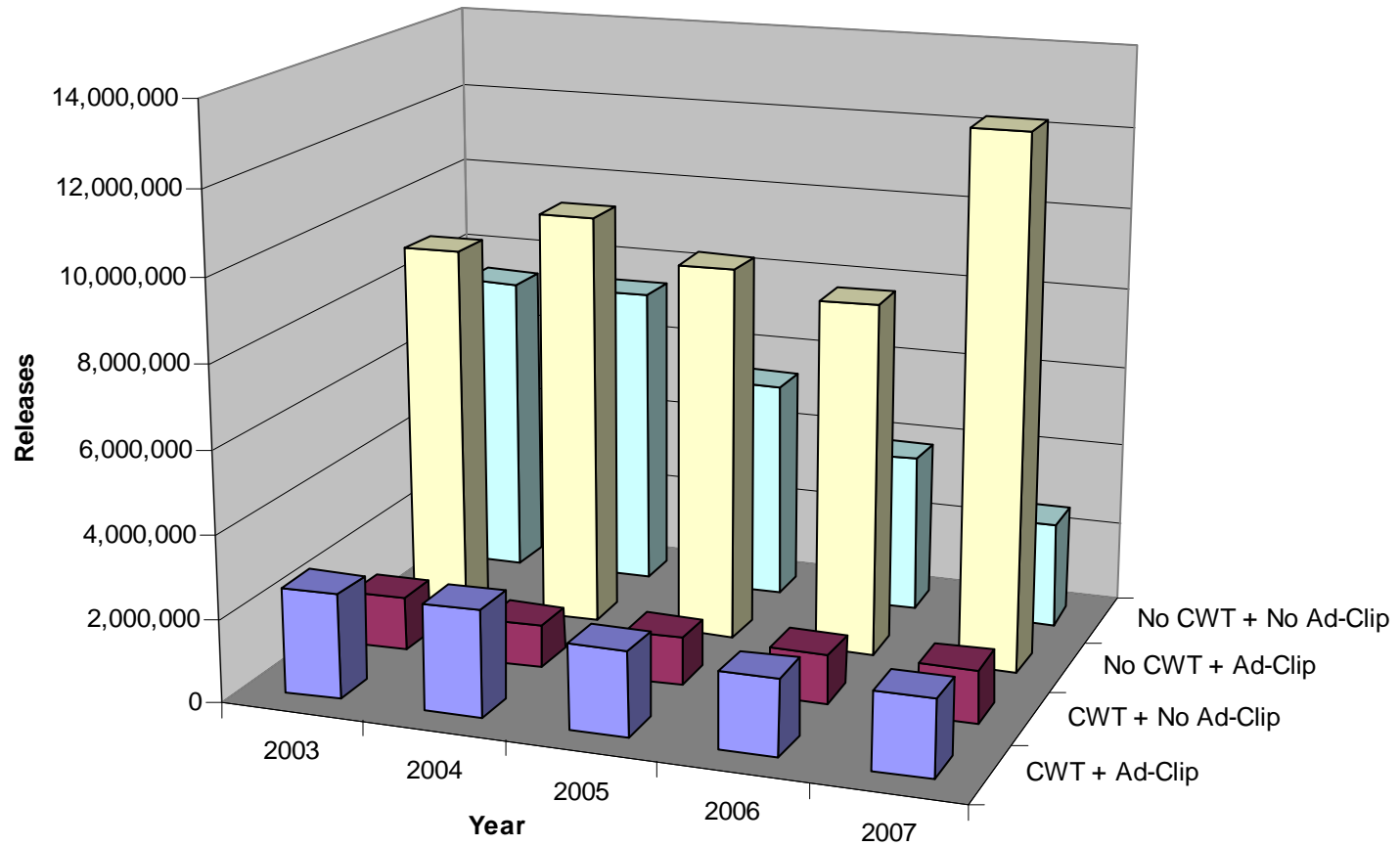
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	5,715,720	5,253,173	5,284,642	4,460,674	1,897,375
■ CWT + No Ad-Clip	941,226	1,016,688	1,458,697	1,618,563	1,387,137
■ No CWT + Ad-Clip	8,300,249	9,656,784	27,174,947	25,931,564	19,653,564
■ No CWT + No Ad-Clip	39,629,221	32,421,307	13,225,639	15,452,240	15,281

IDFG Releases All Species Combined



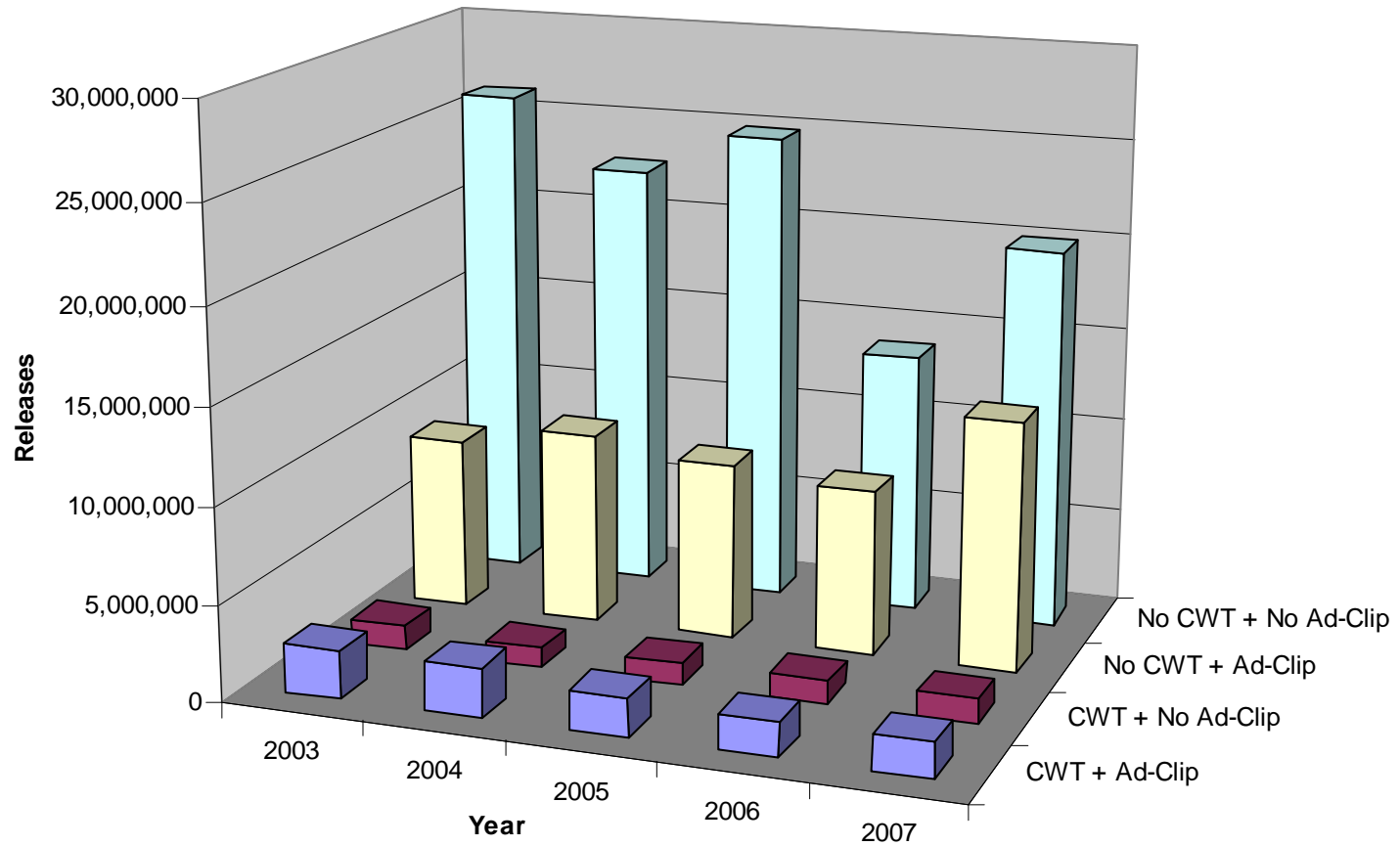
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	1,394,797	1,641,153	1,485,086	1,786,950	1,797,098
■ CWT + No Ad-Clip	671,525	654,517	160,814	409,671	149,928
■ No CWT + Ad-Clip	10,213,439	11,645,671	9,956,310	10,902,242	10,283,638
■ No CWT + No Ad-Clip	920,662	540,701	748,870	452,508	830,812

NIFC Releases Chinook, Coho & Steelhead Combined



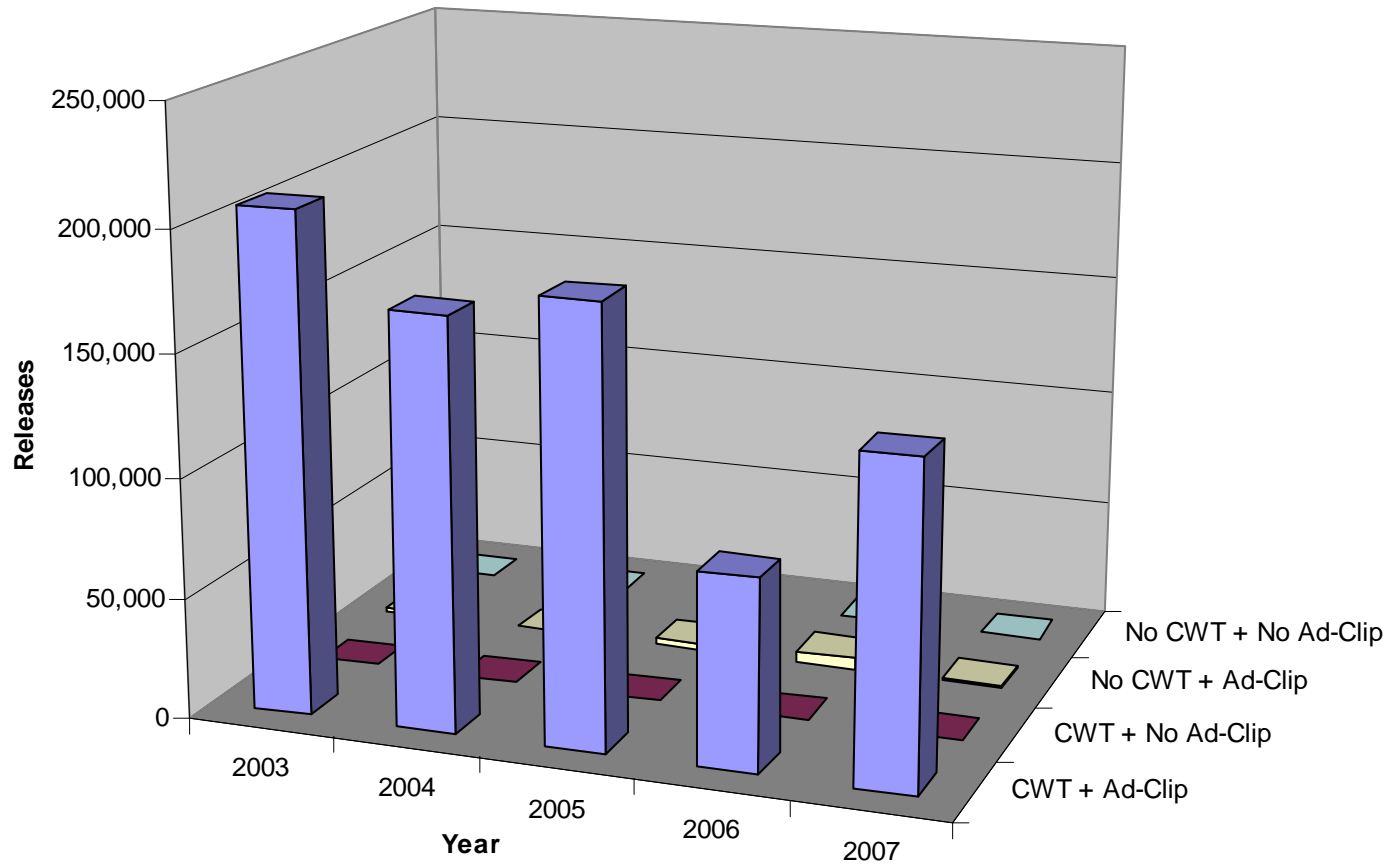
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	2,539,159	2,579,640	2,043,906	1,850,219	1,853,201
■ CWT + No Ad-Clip	1,315,827	1,041,391	1,157,889	1,204,647	1,271,492
■ No CWT + Ad-Clip	9,001,997	10,107,797	9,142,494	8,570,832	12,897,184
■ No CWT + No Ad-Clip	7,407,659	7,404,093	5,367,147	3,871,964	2,574,718

NIFC Releases All Species Combined



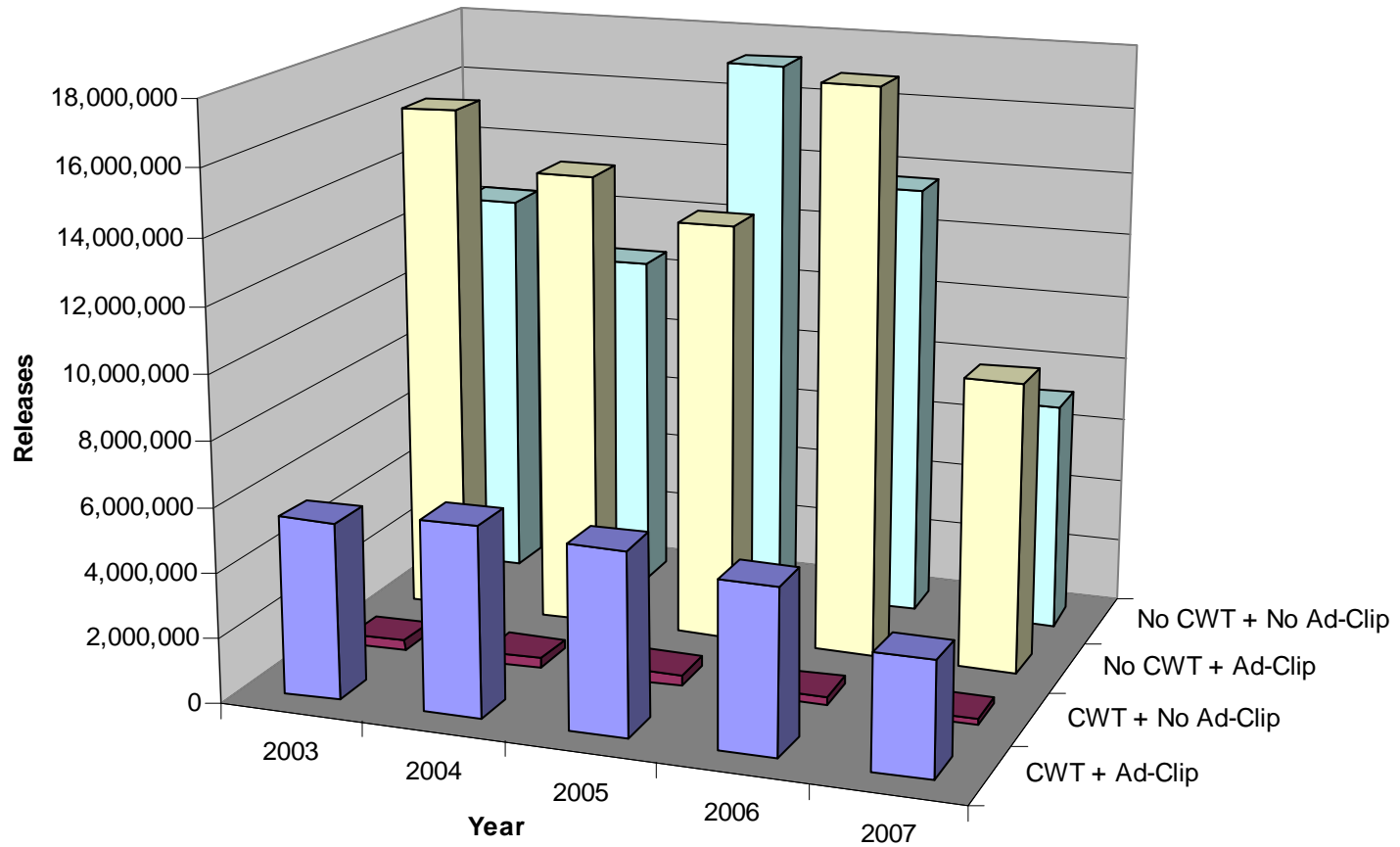
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	2,539,159	2,579,640	2,043,906	1,850,219	1,853,201
■ CWT + No Ad-Clip	1,315,827	1,041,391	1,157,889	1,204,647	1,271,492
■ No CWT + Ad-Clip	9,056,755	10,120,589	9,232,522	8,677,848	13,042,941
■ No CWT + No Ad-Clip	26,121,967	22,595,102	24,845,814	13,776,497	20,003,426

NMFS Releases All Species Combined



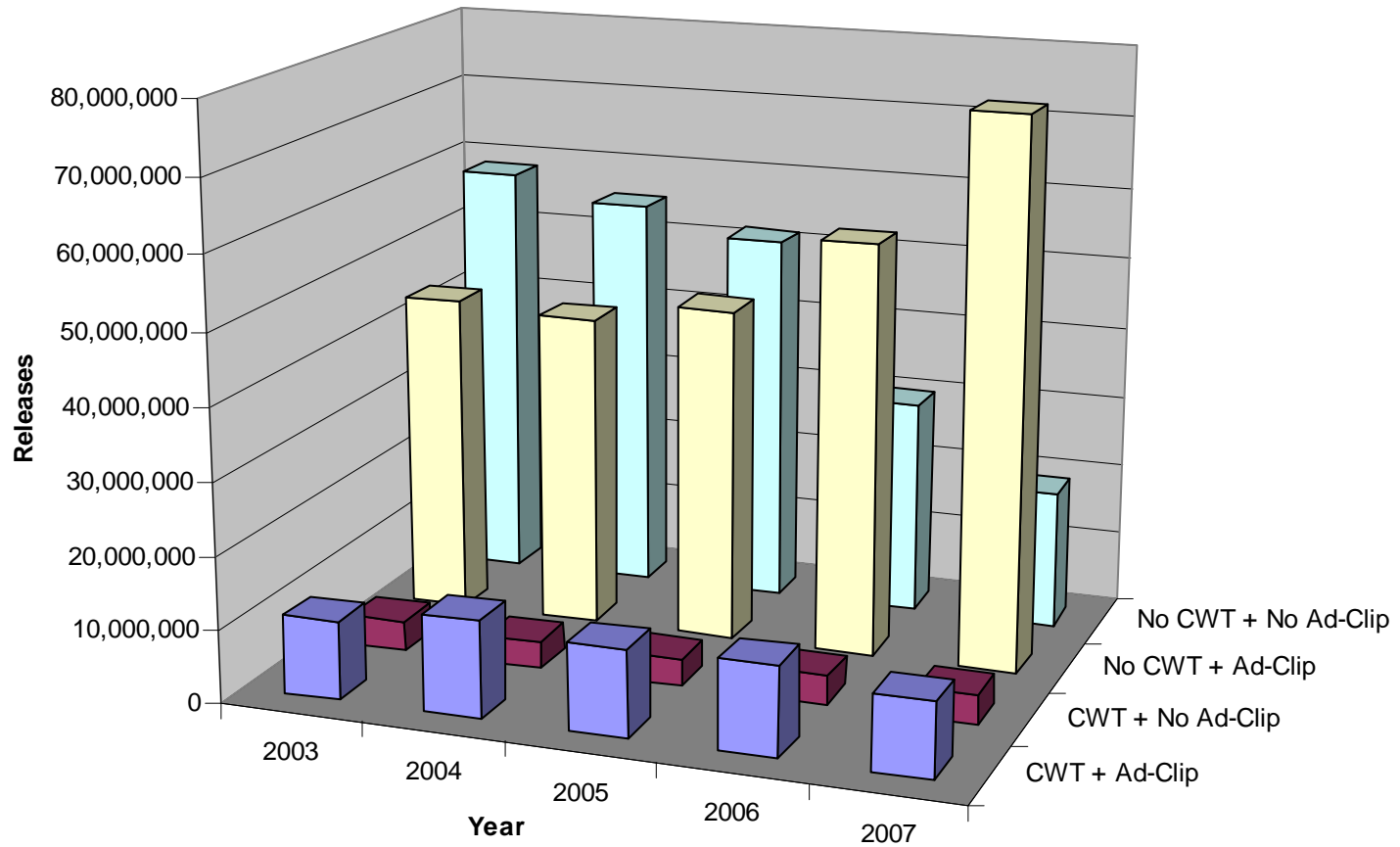
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	206,988	170,273	181,277	79,330	133,165
■ CWT + No Ad-Clip	0	0	0	0	0
■ No CWT + Ad-Clip	1,461	590	3,007	4,921	657
■ No CWT + No Ad-Clip	0	0	0	0	0

ODFW Releases All Species Combined



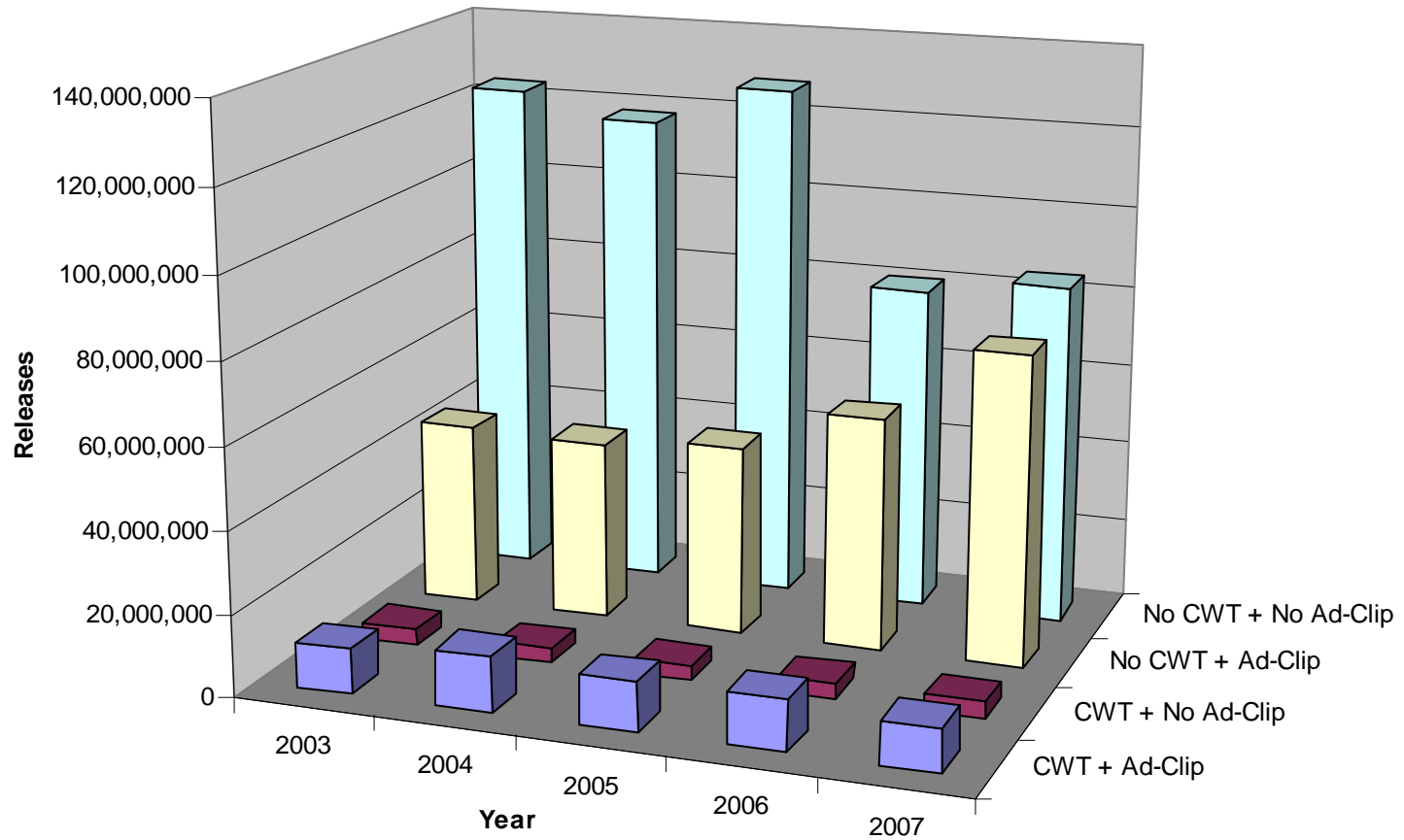
	2003	2004	2005	2006	2007
CWT + Ad-Clip	5,465,235	5,859,555	5,636,029	5,129,321	3,513,511
CWT + No Ad-Clip	328,326	303,106	342,430	250,004	182,104
No CWT + Ad-Clip	16,033,988	14,295,312	13,064,961	17,627,175	9,026,587
No CWT + No Ad-Clip	12,260,672	10,595,282	17,218,758	13,634,167	7,123,037

WDFW Releases Chinook, Coho & Steelhead Combined



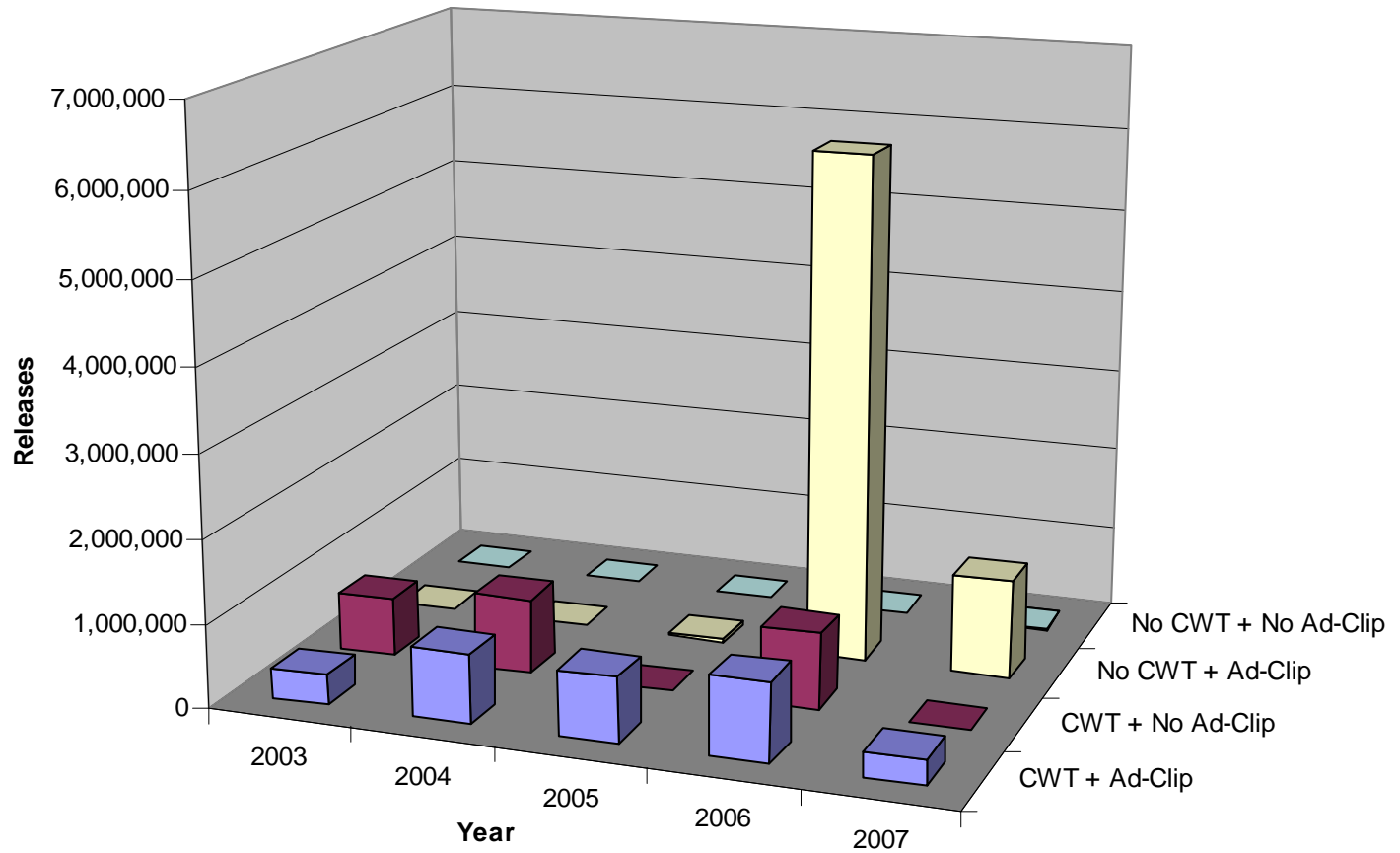
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	10,828,441	13,403,179	12,028,071	12,411,321	10,323,860
■ CWT + No Ad-Clip	4,189,090	3,708,086	3,793,380	4,003,903	4,028,480
■ No CWT + Ad-Clip	44,388,663	43,459,960	46,346,004	57,204,805	75,919,990
■ No CWT + No Ad-Clip	58,547,825	55,308,853	51,635,683	30,025,920	19,121,962

WDFW Releases All Species Combined



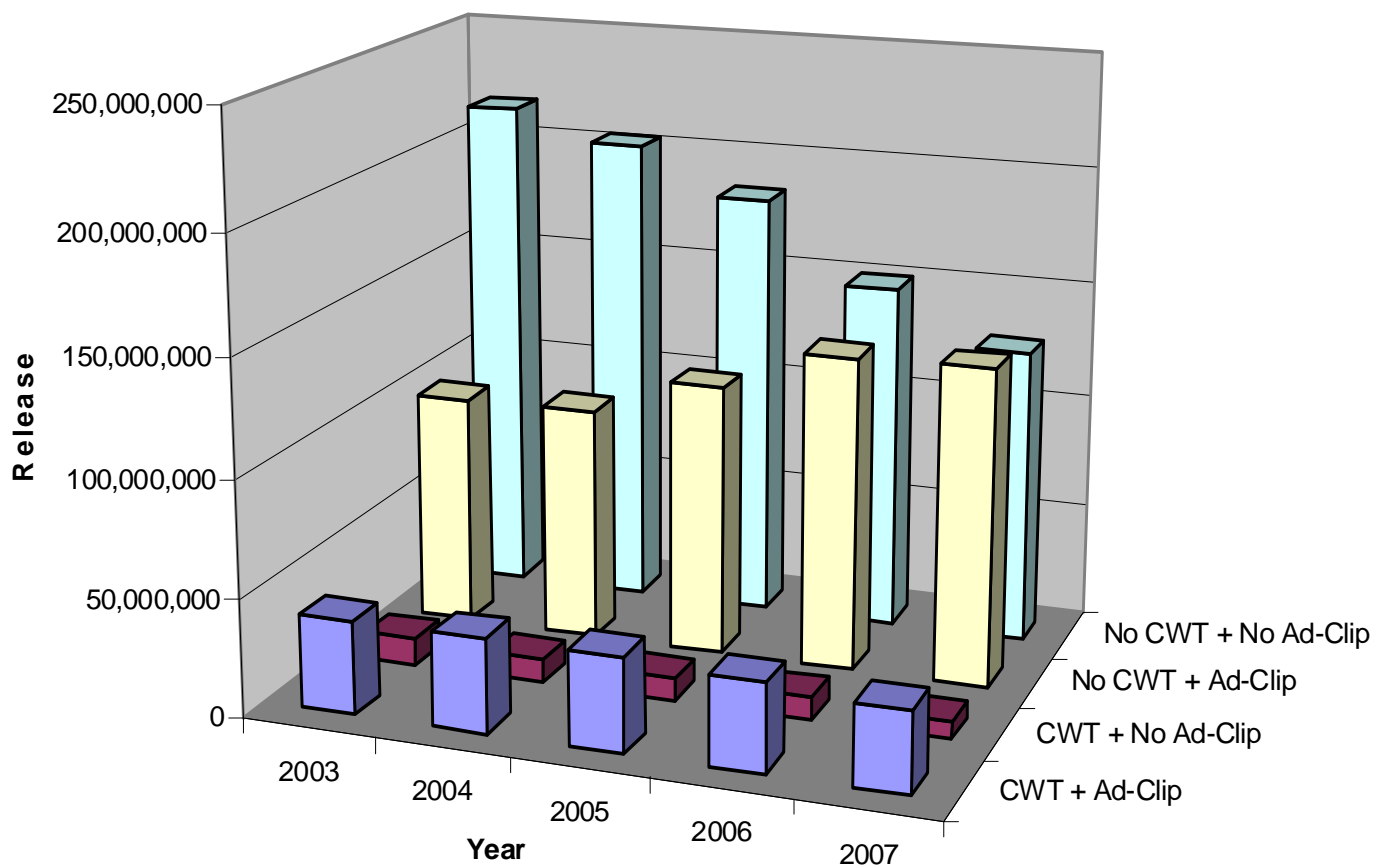
	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	11,118,662	13,624,903	12,182,043	12,551,258	10,543,653
■ CWT + No Ad-Clip	4,191,714	3,710,984	3,795,852	4,003,903	4,032,002
■ No CWT + Ad-Clip	45,045,426	44,185,442	46,697,268	57,341,672	76,417,161
■ No CWT + No Ad-Clip	123,516,305	117,750,821	127,816,974	80,352,869	84,233,527

YAKA Releases All Species Combined



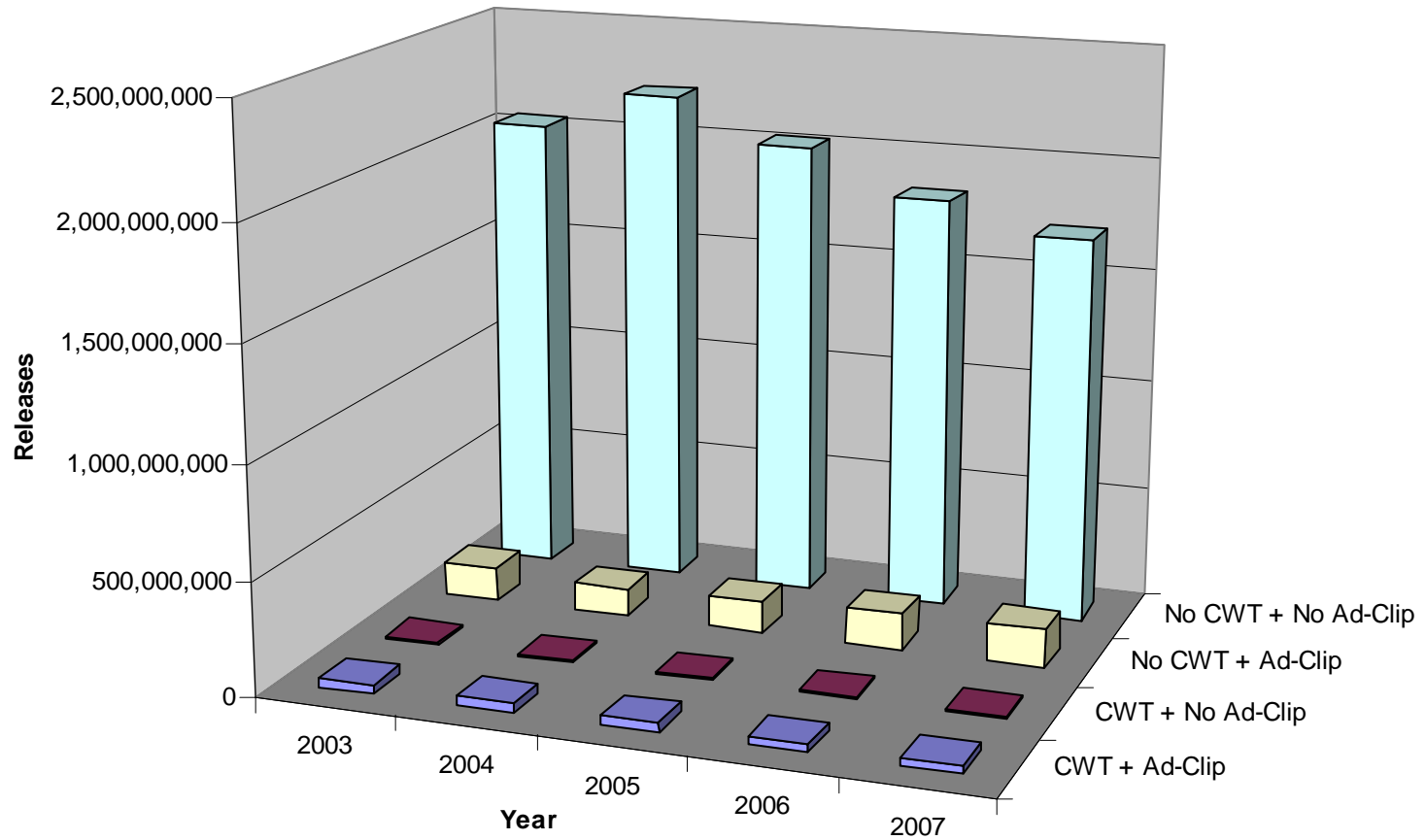
	2003	2004	2005	2006	2007
CWT + Ad-Clip	358,922	831,576	783,302	948,375	300,701
CWT + No Ad-Clip	703,538	897,265	0	914,613	0
No CWT + Ad-Clip	10,256	5,331	39,050	6,072,611	1,176,748
No CWT + No Ad-Clip	1,058	897	2,340	14,373	4,369

All Agency Releases Chinook, Coho & Steelhead Combined



	2003	2004	2005	2006	2007
CWT + Ad-Clip	40,027,601	40,430,299	40,228,978	38,113,131	34,736,008
CWT + No Ad-Clip	11,790,614	10,233,509	9,632,350	9,501,338	7,187,218
No CWT + Ad-Clip	99,629,479	100,136,498	116,580,362	134,895,313	136,009,476
No CWT + No Ad-Clip	216,170,783	203,579,255	183,792,176	149,868,289	127,371,867

All Agency Releases All Species Combined



	2003	2004	2005	2006	2007
■ CWT + Ad-Clip	40,676,345	40,737,402	40,544,552	38,378,550	35,011,760
■ CWT + No Ad-Clip	11,793,238	10,236,407	9,673,622	9,501,338	7,233,114
■ No CWT + Ad-Clip	150,960,321	126,506,340	142,678,254	163,086,398	167,948,827
■ No CWT + No Ad-Clip	2,046,801,173	2,212,635,212	2,025,807,512	1,835,552,129	1,716,091,766

Recoveries

By Run Year and Reporting Agency as of Wed Mar 26 09:52:23 2008

Process status:

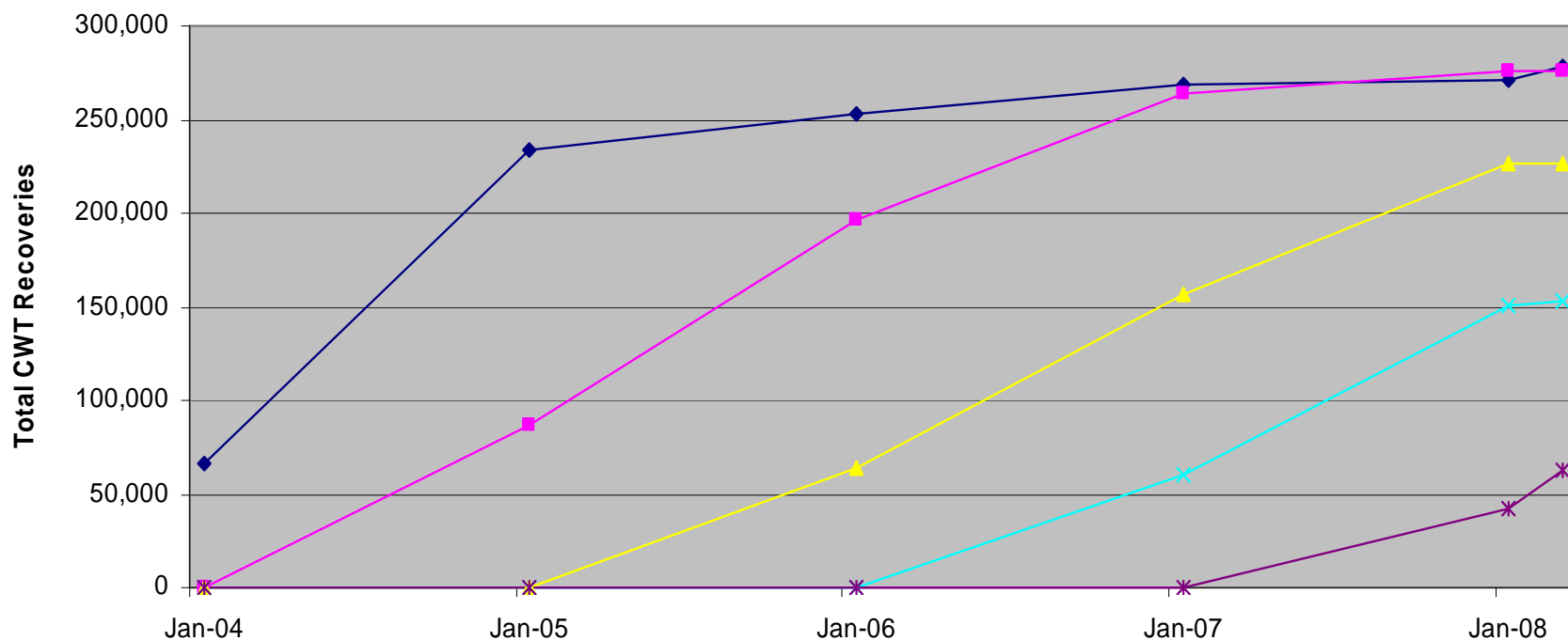
- = Partially validated
- = Fully validated/not yet available
- = Fully validated and available

Explanation:



Year	ADFG	CDFG	CDFO	FWS	IDFG	NIFC	NMFS	ODFW	QDNR	WDFW	Year
2007	2008/01/18	2008/01/25	2008/03/19				2008/02/14	2008/01/18		2008/02/12	2007
2006	2008/01/18	2008/03/25	2008/02/07	2008/01/29	2007/06/26	2008/01/18	2008/02/14	2008/01/18	2008/02/08	2008/01/25	2006
2005	2007/03/07	2007/01/18	2008/02/07	2007/10/03	2007/04/16	2007/10/02	2008/02/07	2008/02/12	2008/02/07	2007/11/05	2005
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1998	2007/03/12	1999/11/30	2007/01/09	2006/05/24	2006/10/20	2007/10/08	2006/02/01	2001/07/31	2002/12/03	2004/05/10	1998
1997	2007/03/07	2000/07/13	2007/01/09	2006/05/15	2006/10/20	2007/07/17	2006/01/13	2001/07/26	1999/02/22	2002/10/03	1997
1996	2007/03/13	2001/04/12	2007/01/09	2003/09/04	2006/10/20	2007/07/16	2006/02/01	1999/10/14	1999/01/28	2002/12/17	1996
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1994	2007/03/07	1995/12/05	2002/09/19	2003/05/29	2006/10/20	2007/07/09	2006/01/13	1995/10/10	1996/08/07	2003/03/17	1994
1993	2007/03/12	1994/08/31	2002/09/18	1997/07/25	2006/10/20	2007/07/06	2006/01/27	2001/04/12	1994/12/29	2004/01/05	1993
1992	2007/03/16	1993/10/01	2002/09/19	2003/08/17	2006/10/20	2007/07/05	2006/02/01	1994/10/28	1994/12/29	2004/01/05	1992
1991	2007/03/16	2006/04/10	2002/09/18	2003/08/17	2006/10/20	2007/05/25	2006/01/13	1994/10/28	1993/07/16	2004/01/12	1991
1990	2008/03/17	1992/12/27	2002/09/19	2003/08/17	2006/10/20	1998/03/31	2006/01/13	1995/02/06	1993/07/16	2004/01/12	1990

**All Agency Recoveries
by run year as reported
on each yearly submission deadline**



	1/31/2004	1/31/2005	1/31/2006	1/31/2007	1/31/2008	3/26/2008
2003	66,665	233,289	253,410	269,208	271,075	278,851
2004	0	87,086	195,839	264,367	275,731	275,731
2005	0	0	63,877	156,758	227,065	226,291
2006	0	0	0	60,735	150,525	153,562
2007	0	0	0	0	42,221	62,527

Yearly Submission Deadlines

Catch/Sample

From CWT Database Load Logs
By Catch Year and Reporting Agency as of Tue Mar 25 14:57:30 2008

Process status:	Explanation:
 = Partially validated	 Help
 = Fully validated/not yet available	
 = Fully validated and available	

Year	ADFG	CDFG	CDFO	FWS	NIFC	NMFS	ODFW	QDNR	WDFW	Year
2007	2008/01/18	2008/01/25	2008/03/18			2008/02/15	2008/01/16		2008/02/12	2007
2006	2008/01/16	2008/03/25	2008/02/07	2007/12/11	2008/01/16	2008/02/14	2008/01/16	2008/02/08	2008/01/25	2006
2005	2007/03/07	2007/01/18	2008/02/07	2008/01/29	2007/10/05	2008/02/07	2008/02/20	2008/02/06	2007/11/05	2005
2004	2007/03/07	2006/07/10	2008/02/07	2006/07/06	2006/03/02	2008/02/07	2007/04/04	2006/01/17	2007/10/22	2004
2003	2007/03/07	2006/07/10	2008/02/07	2008/03/13	2005/01/18	2008/02/07	2006/05/02	2005/01/10	2008/02/12	2003
2002	2007/03/07	2006/07/10	2008/01/17	2008/01/28	2005/07/27	2008/02/07	2008/02/20	2004/01/15	2008/01/18	2002
2001	2007/03/07	2006/07/10	2008/01/17	2008/01/29	2002/12/16	2006/11/02	2005/03/23	2003/06/05	2005/06/24	2001
2000	2007/03/07	2002/03/25	2008/01/17	2007/04/04	2002/01/31	2006/01/27	2006/03/17	2005/12/29	2004/06/15	2000
1999	2007/03/07	2001/03/16	2007/01/09	2007/04/03	2001/02/28	2006/01/27	2004/12/20	2002/09/18	2004/05/06	1999
1998	2007/03/07	1999/11/30	2007/01/29	2006/05/24	2007/10/10	2006/01/27	2001/07/31	2002/12/03	2004/05/10	1998
1997	2007/03/07	2000/07/06	2007/01/09	2006/05/02	2007/07/31	2006/01/27	2001/07/26	1999/02/22	2002/10/03	1997
1996	2007/03/07	1998/01/07	2000/06/02	2003/09/04	2007/07/16	2006/01/27	2000/05/04	1999/01/28	2002/12/17	1996
1995	2007/03/07	1997/01/13	2007/01/09	2003/09/04	2007/07/11	2006/01/27	1996/08/28	1998/10/27	2003/01/21	1995
1994	2007/03/07	1995/12/05	2000/06/02	2003/05/30	2007/07/09	2006/01/27	1995/10/10	1996/08/07	2003/03/18	1994
1993	2007/03/07	1994/08/31	2000/06/02	1997/07/25	2007/07/09	2006/01/27	2001/04/16	1994/12/29	2004/01/05	1993
1992	2007/03/16	1993/10/01	2000/06/02	2003/08/17	2007/07/05	2006/01/27	1994/10/28	1994/12/29	2004/01/05	1992
1991	2007/03/16	1993/02/22	2000/06/02	2003/08/17	2007/05/30	2006/01/27	1994/10/28	1993/07/15	2004/01/12	1991
1990	2008/03/17	1993/02/22	2000/06/02	2003/08/17	2001/07/05	2006/01/27	1994/12/28	1993/07/15	2004/01/12	1990

Catch & Effort

Process status:

- = Partially validated
- = Fully validated/not yet available
- = Fully validated and available

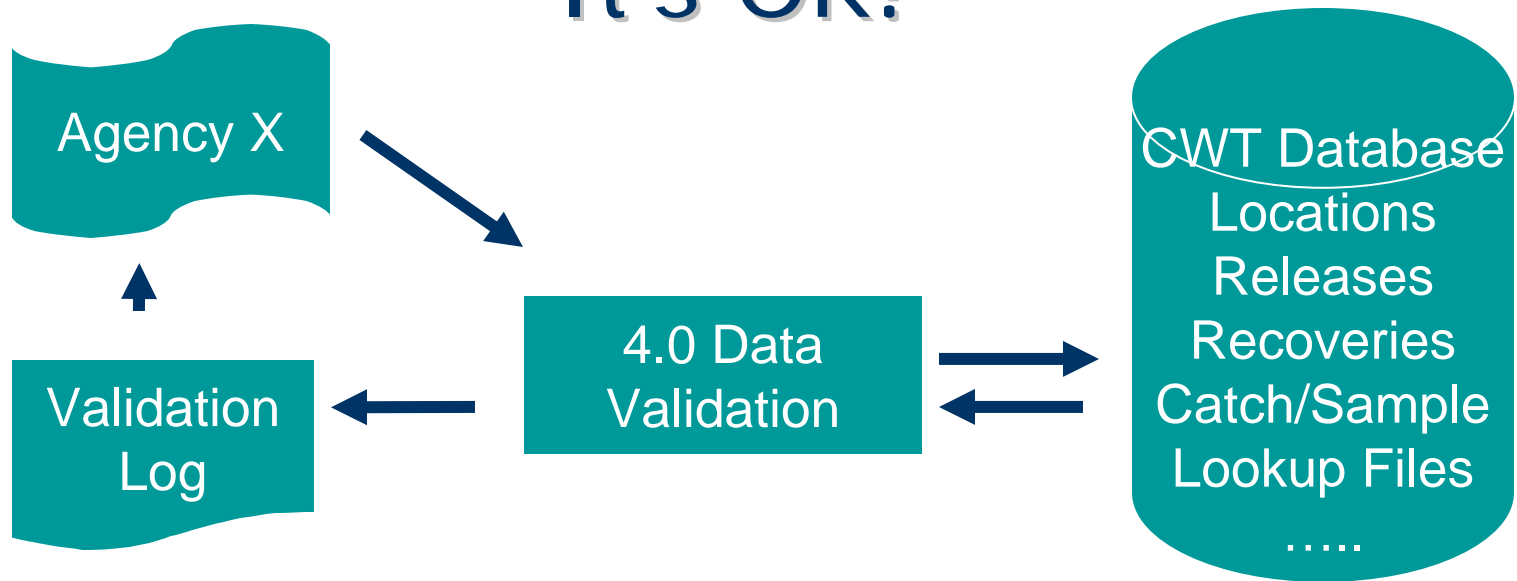
Explanation:



Help

Year	ADFG	CDFG	CDFO	ODFW	WDFW	Year
1998					2007/08/07	1998
1997					2007/08/07	1997
1996					2005/06/23	1996
1995					2004/09/07	1995
1994					2004/09/10	1994
1993					2004/10/20	1993
1992					2005/03/08	1992
1991					2005/04/11	1991
1990					2002/06/06	1990
1989					2002/08/07	1989
1988					2002/08/08	1988
1987					2002/10/04	1987
1986					2002/10/03	1986
1985					2002/10/03	1985
1984					2003/01/21	1984
1983					2003/04/01	1983
1982					2003/04/01	1982
1981					2004/04/09	1981
1980					2004/04/09	1980

Multiple Attempts at Validation? It's OK!



We're working with multiple agencies
and multiple data types!

We'll work together until it's right!!

Common Data Errors

All Data Types

- Filename or field value too long
- Submission Date not consistent or too old
- Value required but missing
- Location Code not found

Releases

- Must be blank or numeric in a specific range ...
- First Release Date greater than Last Release Date
- Tag Code already reported by another agency

Common Data Errors

Recoveries

- Recovery Species must match release
- Recovery Date earlier than release
- Recovery Tag Code must be present in release

Catch/Sample

- Estimated Number/Number Caught must be absent when Sample Type is '4'