



California Department of Fish and Game

Chinook Salmon Escapement

Sacramento River Natural Areas

Salmon Information Meeting
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Department of Fish and Game

GrandTab

<http://www.calfish.org/IndependentDatasets/CDFGFisheriesBranch/tabid/157/Default.aspx>



Chinook Salmon Escapement Sacramento River Natural Areas

Contents

1. Define Escapement
2. Methods
 - 2.1 Areas Covered
 - 2.2 Survey Methods
 - 2.3 Compilation Methods
3. Results
 - 3.1 Total
 - 3.2 Details
 - 3.3 Trends
4. Discussion
 - 4.1 Other Resources
 - 4.2 Acknowledgements
 - 4.3 Questions



Chinook Salmon Escapement Sacramento River Natural Areas

1. Escapement

- 1.1 Chinook “escape” the ocean, swim upriver to spawn.
- 1.2 Projects throughout the state estimate this “escapement”.
- 1.3 We add them up.
- 1.4 We give this information to: Users, Managers.



Chinook Salmon Escapement Sacramento River Natural Areas

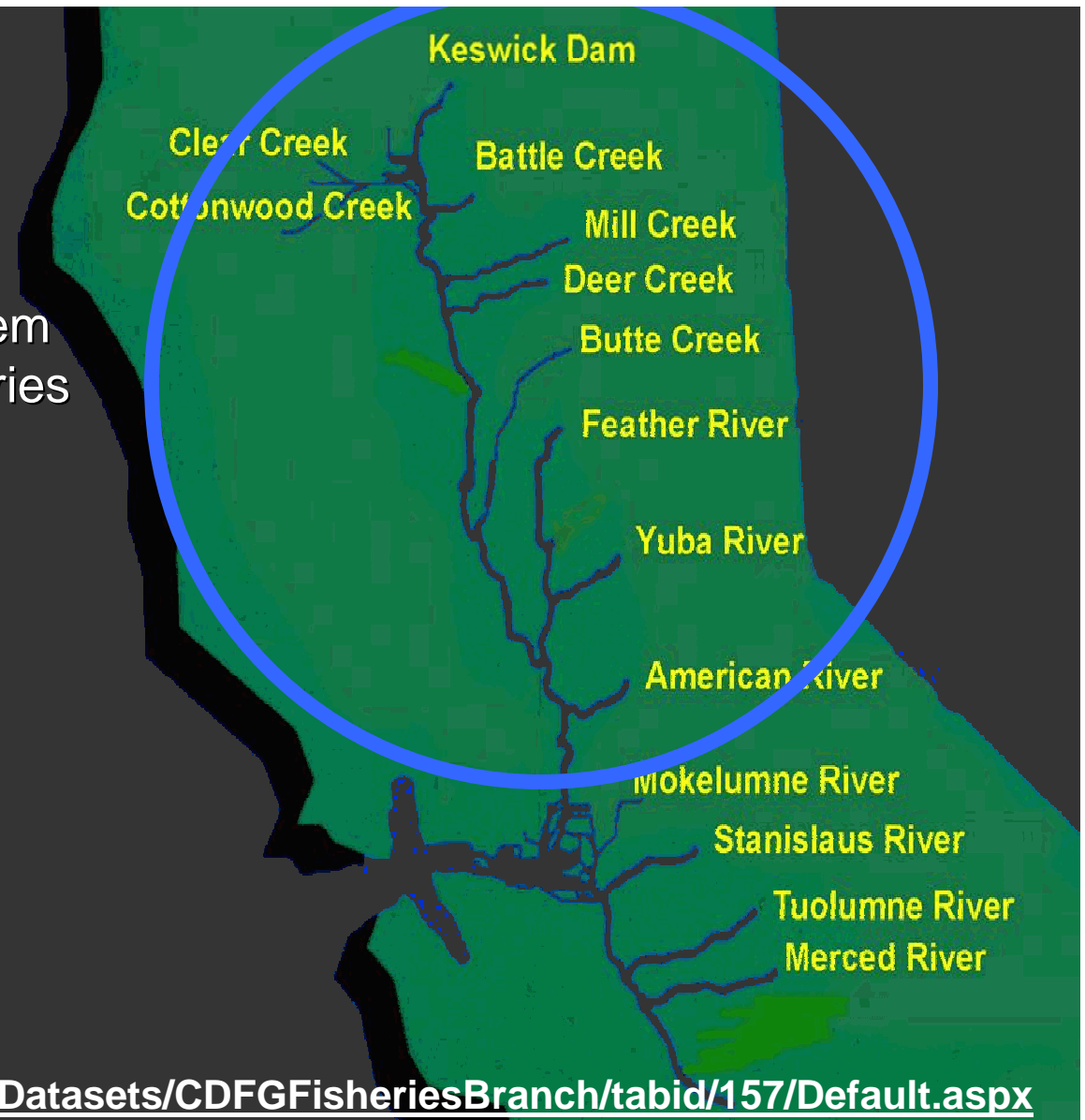
2.1 Methods: Areas

In this presentation:

- Natural Areas
- Sacramento River Mainstem
- Sacramento River Tributaries

In other presentations:

- Hatcheries
- San Joaquin System
- Angler Harvest





Chinook Salmon Escapement Sacramento River Natural Areas

2.2 Methods: Estimation

Sacramento River:	RBDD, Carcass, Redds, Anglers
Clear Creek:	Carcass, Snorkel
Cow Creek:	Video
Bear Creek:	Video
Cottonwood Creek:	Video, Snorkel
Battle Creek:	Ladder, Snorkel, Hatchery, Video
Antelope Creek:	Snorkel, Video, Redds
Mill Creek:	Redds, Carcass, Video
Deer Creek:	Snorkel, Carcass, Redds
Big Chico Creek:	Snorkel
Butte Creek:	Carcass, Snorkel
Feather River:	Carcass, Hatchery, Anglers
Yuba River:	Carcass
American River:	Carcass, Hatchery, Anglers



Chinook Salmon Escapement Sacramento River Natural Areas

2.3 Methods: Compilation

tblCatchSamp : Table					qxstabSUM : Crosstab Query							
Run	Run_Yr	Loc_Code	Rec	F11Sac1ABRB	F11Sac2KESW	F12Bat1CNFH	F12Bat2BAT	F12Bat3BAT_A	F13Trb02CLR	F13Trb04S		
+ FALL 1952 6FCSJMOK	1960	6FCSJMOK	CA	210000	8940	9605	14200		900			
+ FALL 1952 6FCSABEA_RIV	1961	6FCSABEA_RIV	0	134700	5481	8156	11700					
+ FALL 1952 6FCSACHI?ChinaGu	1962	6FCSACHI?ChinaGu	0	115500	12337	4857	8200		5400			
+ FALL 1952 6FCSASPR?SpringC	1963	6FCSASPR?SpringC	0	135200	3681	5114	12400		10000			
+ FALL 1952 6FCSABCH	1964	6FCSABCH	SN	140500	2084	3875	12000		2500			
+ FALL 1952 6FCSADEE	1965	6FCSADEE	CA	98900	2976	3194	6000		2500			
+ FALL 1952 6FCSJSTA	1966	6FCSJSTA	CA	107900	3981	900	2400		900			
+ FALL 1952 6FCSABEA CK?Bea	1967	6FCSABEA CK?Bea	0	78100	4390	3050	2160		370			
+ FALL 1952 6FCSACYO?Coyote	1968	6FCSACYO?Coyote	0	95600	2829	3526	2950		800			
+ FALL 1952 6FCSAAMN NAT?N:	1969	6FCSAAMN NAT?N:	0	114600	1052	2626	3200		1240			
+ FALL 1952 6FCSABAT ACOL*	1970	6FCSABAT ACOL*	VID	62298	2844	3512	3320					
+ FALL 1952 6FCSAPYN?Paynes	1971	6FCSAPYN?Paynes	0	52247	1641	2004	3285					

California Department of Fish and Game - Fisheries Branch Anadromous Assessment - GrandT ab									
CHINOOK SALMON ESCAPEMENT - ALL RUNS									
CENTRAL VALLEY: Sacramento and San Joaquin river systems									
LATE-FALL				WINTER			SPRING		
YEAR	Hatcheries	In-River	TOTAL	YEAR	TOTAL	RBDD	YEAR	Hatcheries	In-Riv
Nov 1994 - Apr 1995	323	166	489	Dec 1994 - Aug 1995	1,297	1,290	1995	5,414	9,8
Nov 1995 - Apr 1996	1,337	48	1,385	Dec 1995 - Aug 1996	1,337	1,337	1996	6,381	2,7
Nov 1996 - Apr 1997	4,578		4,578	Dec 1996 - Aug 1997	880	880	1997	3,653	1,4
Nov 1997 - Apr 1998	3,079	39,340	42,419	Dec 1997 - Aug 1998	2,992	2,930	1998	6,746	24,7
Nov 1998 - Apr 1999	7,075	8,683	15,758	Dec 1998 - Aug 1999	3,288	3,288	1999	3,731	6,3
Nov 1999 - Apr 2000	4,194	8,751	12,945	Dec 1999 - Aug 2000	1,352	1,352	2000	3,657	5,5

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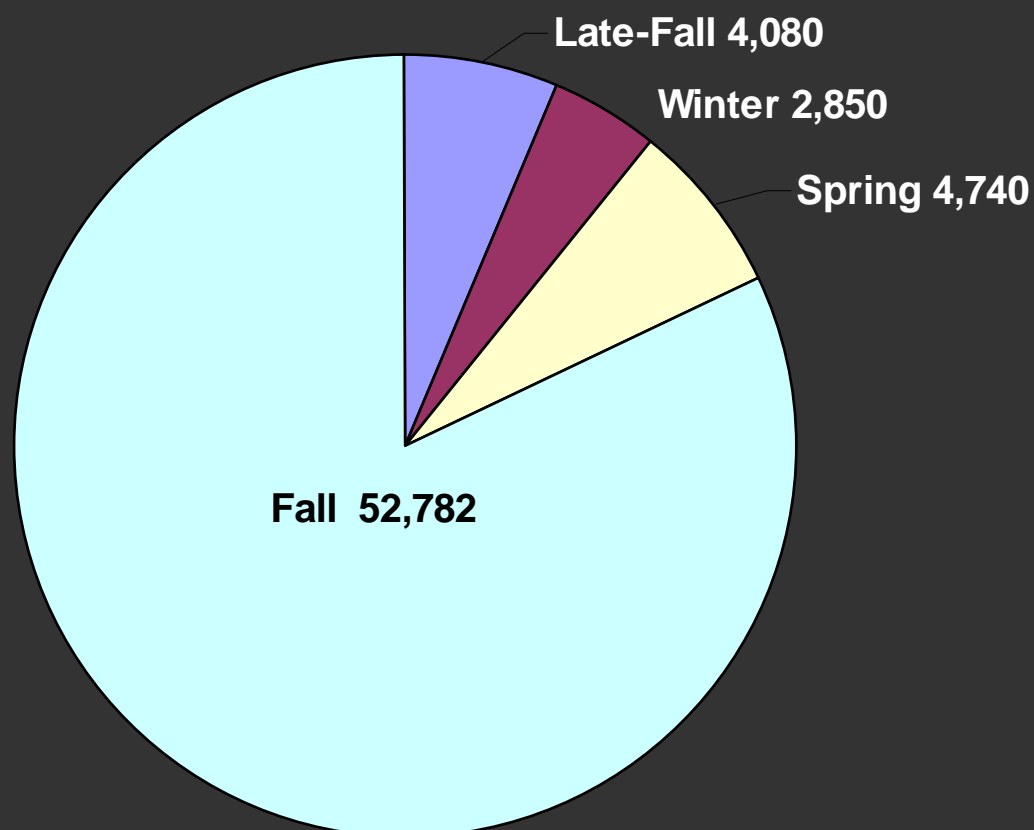


Chinook Salmon Escapement Sacramento River Natural Areas

3.1 Results: Total

Chinook Escapement Estimate 2008

64,452 Salmon



Preliminary data for 2008. Includes only in-river estimates, not hatchery, angler, or San Joaquin system estimates. Spring includes Butte snorkel, not carcass estimate. Winter includes Sacramento carcass, not RBDD estimate.

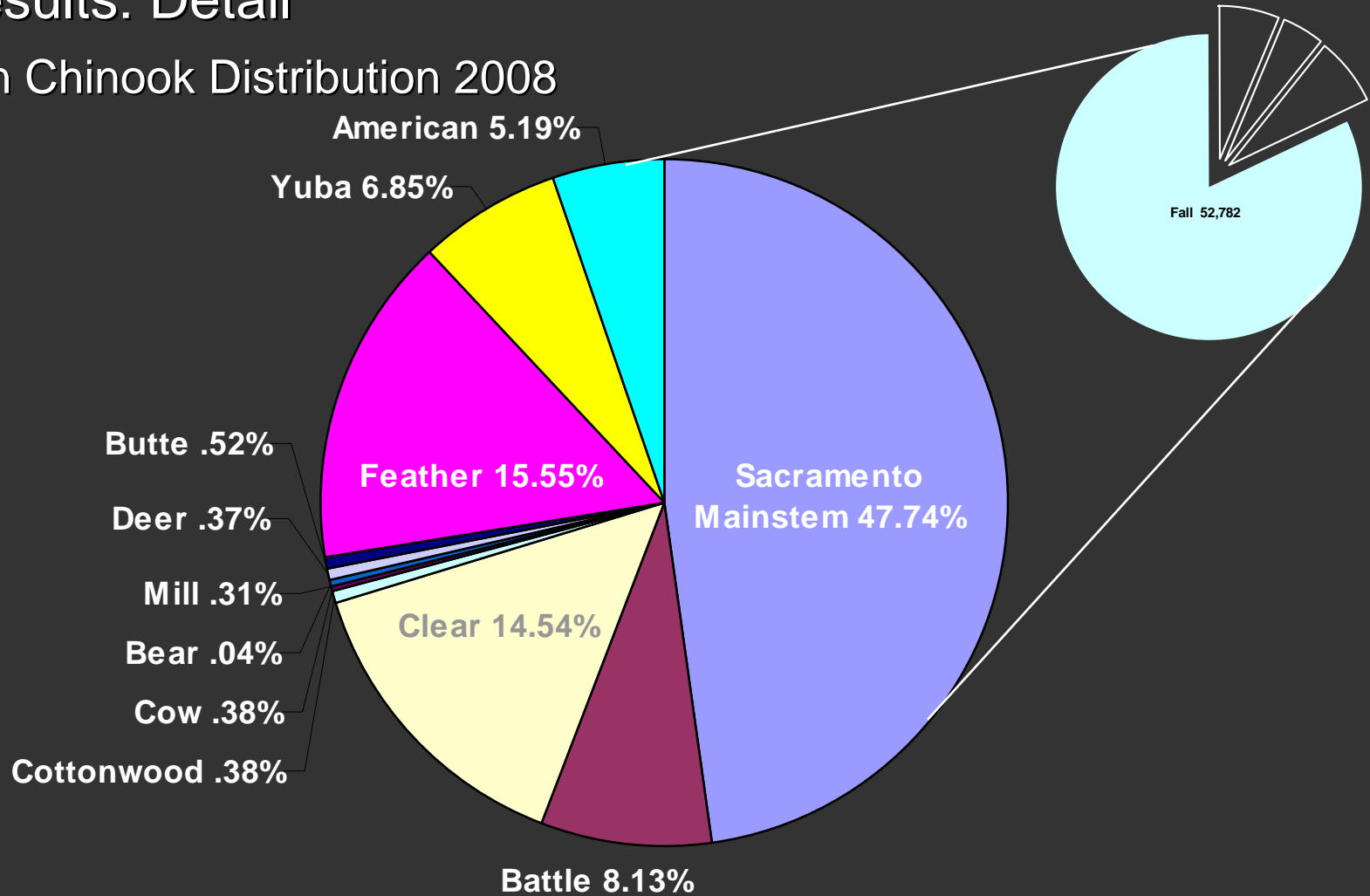
<http://www.calfish.org/IndependentDatasets/CDFGFisheriesBranch/tabid/157/Default.aspx>



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3.2 Results: Detail

Fall-run Chinook Distribution 2008

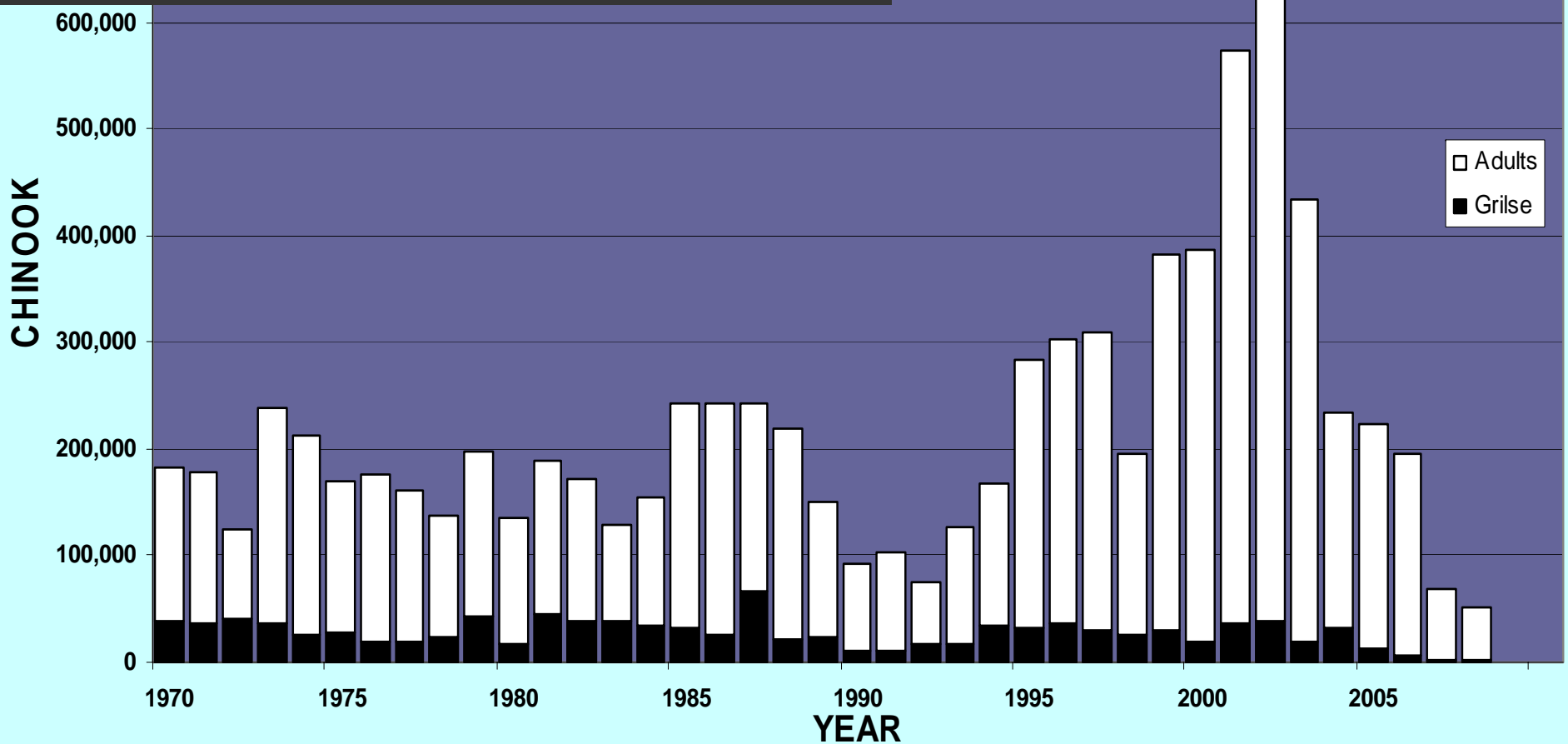




Chinook Salmon Escapement Sacramento River Natural Areas

3.3 Results: Trend

Fall-run Chinook Escapement Estimates





Chinook Salmon Escapement Sacramento River Natural Areas

4.1 Discussion: Other Resources



<http://www.pcouncil.org/salmon/salsafe.html>



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Chinook Salmon Escapement Sacramento River Natural Areas

4.2 Discussion: Acknowledgements

The following play an integral and important part in developing the salmon population estimates presented here:

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Thanks to all of them and the many others (*Hatcheries, San Joaquin Basin, Angler Survey*) that provide the estimates available today.



Chinook Salmon Escapement Sacramento River Natural Areas

4.3 Discussion: Questions?

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