

Alaska Mark Tag and Age Lab Update

Ron Josephson
April 3, 2008



| | |
|-------------------|----------|
| Tag Status | NONSENSE |
| Why Status-7 Code | N |

| Count of Head | Year | | | | | |
|---------------|------|------|------|------|------|-------------|
| Tag Code | 2001 | 2005 | 2006 | 2007 | 2008 | Grand Total |
| 036267 | | | 1 | | | 1 |
| 0501040307 | | | | 1 | 1 | 2 |
| 0501040508 | | | | 1 | | 1 |
| 0501040601 | | | | 1 | | 1 |
| 052599 | | | | 1 | | 1 |
| 082859 | | 7 | | | | 7 |
| 094332 | | | | 1 | | 1 |
| 094335 | | | | 1 | | 1 |
| 185643 | | | | 1 | | 1 |
| 281607 | 1 | | | | | 1 |
| 610174 | | | | 1 | | 1 |
| 631868 | | | | 1 | | 1 |
| 633578 | | | | 2 | | 2 |
| Grand Total | 1 | 7 | 1 | 11 | 1 | 21 |

| Tag Code | State | Agency | Location ity or Wild S | Year Brood | Stock | Species |
|----------|-------|--------|---------------------------|---------------|------------|---------|
| 82859 | BC | CDFO | (W) S-MARTIN R | 2001 | S-MARTIN R | COHO |

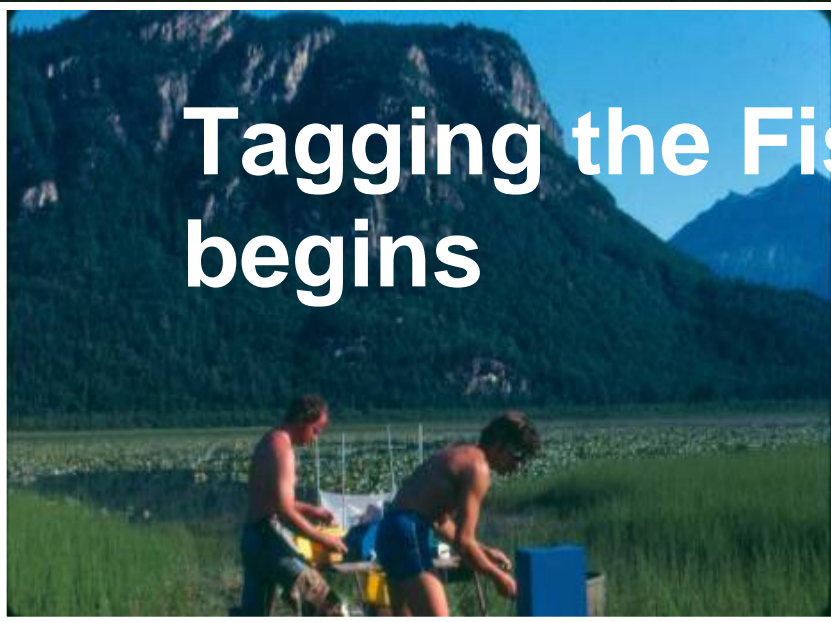
| Release Site | Date Last Released | Ad Clipped and Tagged | Not Ad Clipped and Tagged | Ad Clipped and Not Tagged | Not Ad Clipped and Not Tagged | Total Released |
|--------------|--------------------|-----------------------|---------------------------|---------------------------|-------------------------------|----------------|
| R-MARTIN R | 6/4/2003 | 0 | 0 | 0 | 0 | 0 |

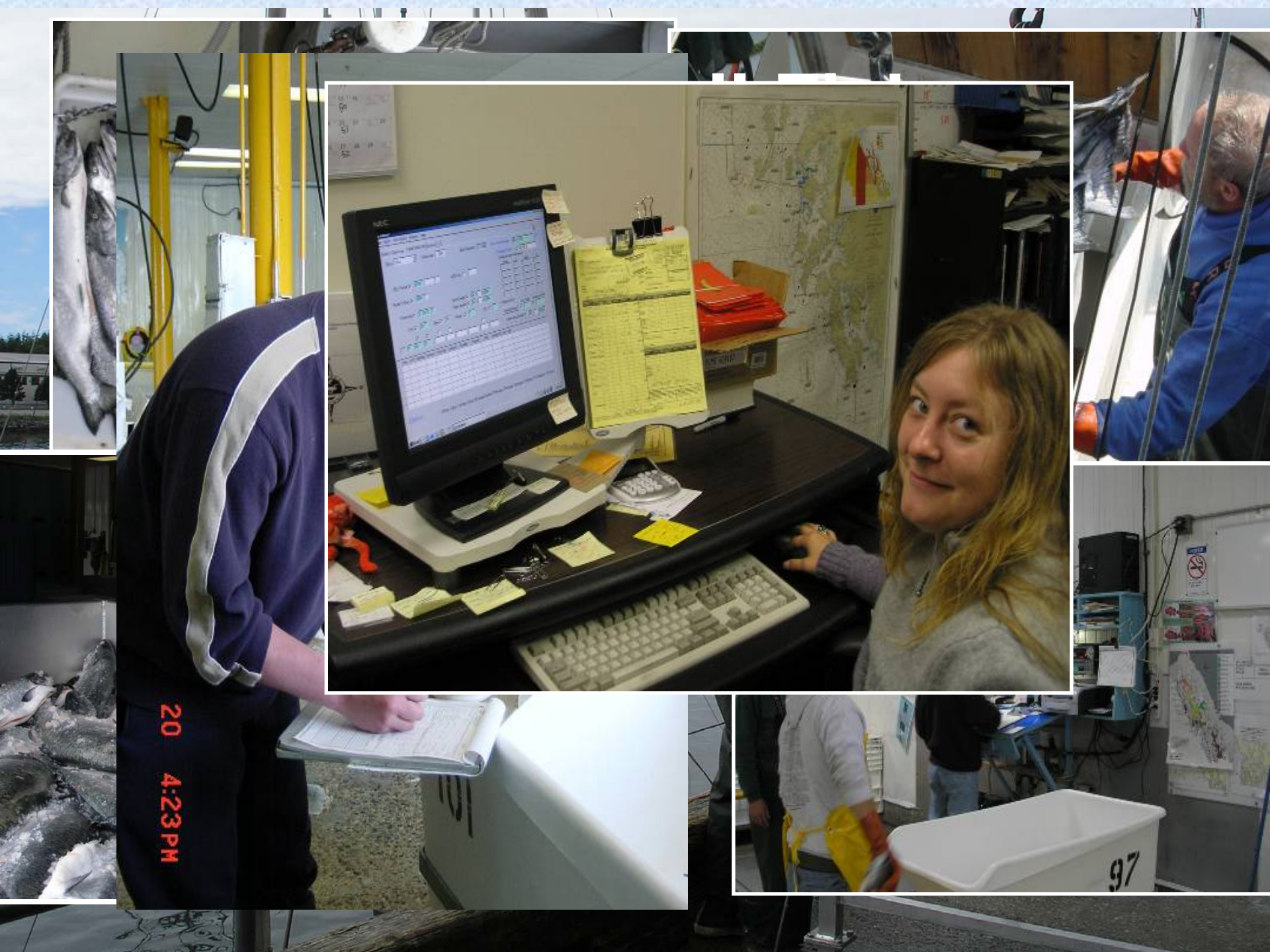
| Tag Code | State | Agency | Rearing Code | Location ity or Wild S | Year Brood | Stock | Species |
|-----------|-------|--------|--------------|----------------------------|------------|-----------------------------|---------|
| 501021004 | WA | YAKA | H | LTL WHITE SALMON NFH | 1999 | ABERNAT HY CR 25.0297 | CHINOOK |

| Release Site | Date Last Released | Ad Clipped and Tagged | Not Ad Clipped and Tagged | Ad Clipped and Not Tagged | Not Ad Clipped and Not Tagged | Total Released |
|-------------------------|--------------------|-----------------------|---------------------------|---------------------------|-------------------------------|----------------|
| YAKIMA @ PROSSER HAT | 5/31/2000 | 0 | 0 | 0 | 2188770 | 2188770 |

77 recoveries with tag ratio of 8.506 (2002 – 2004)

Tagging the Fish – How it all begins





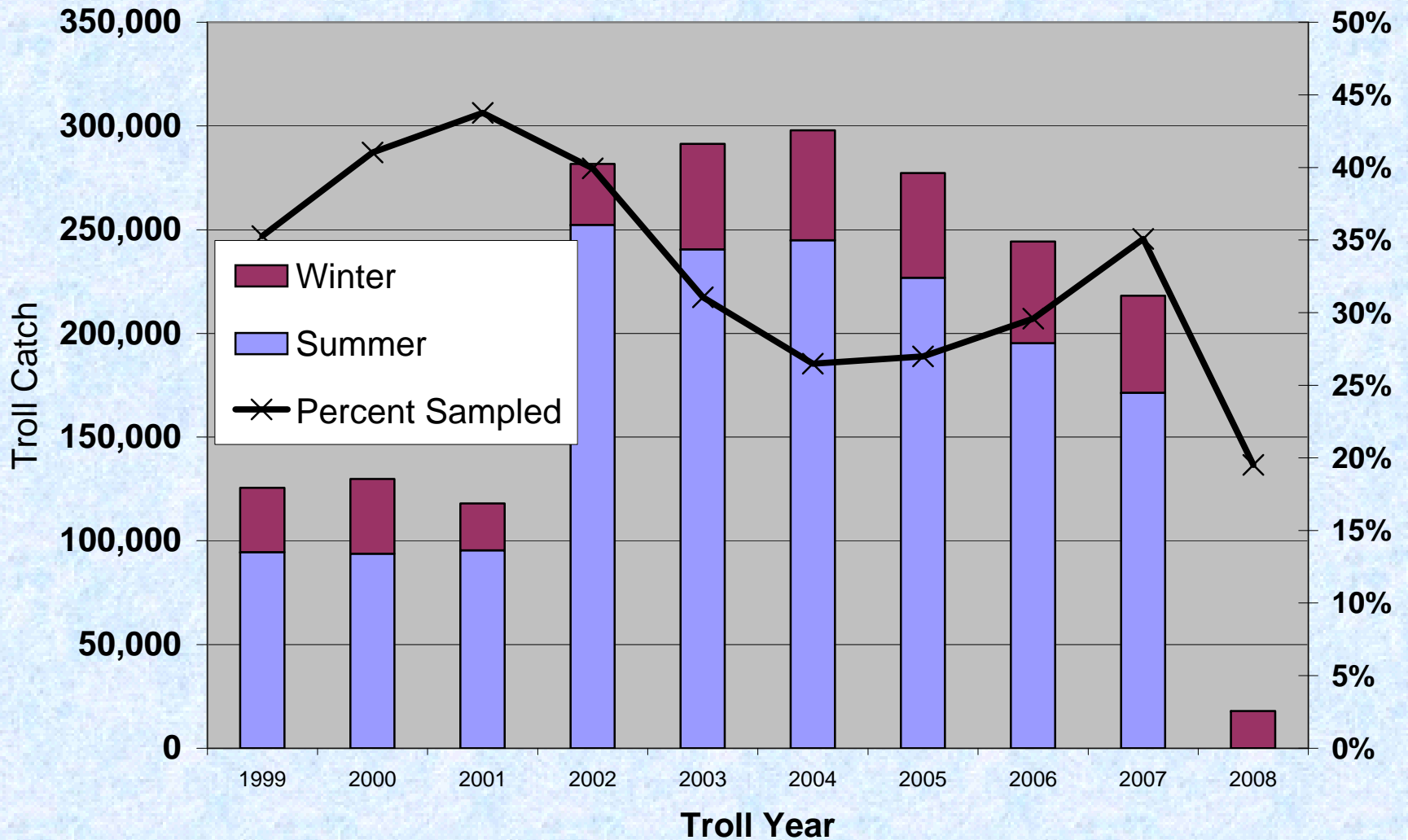
20 4:23PM

97

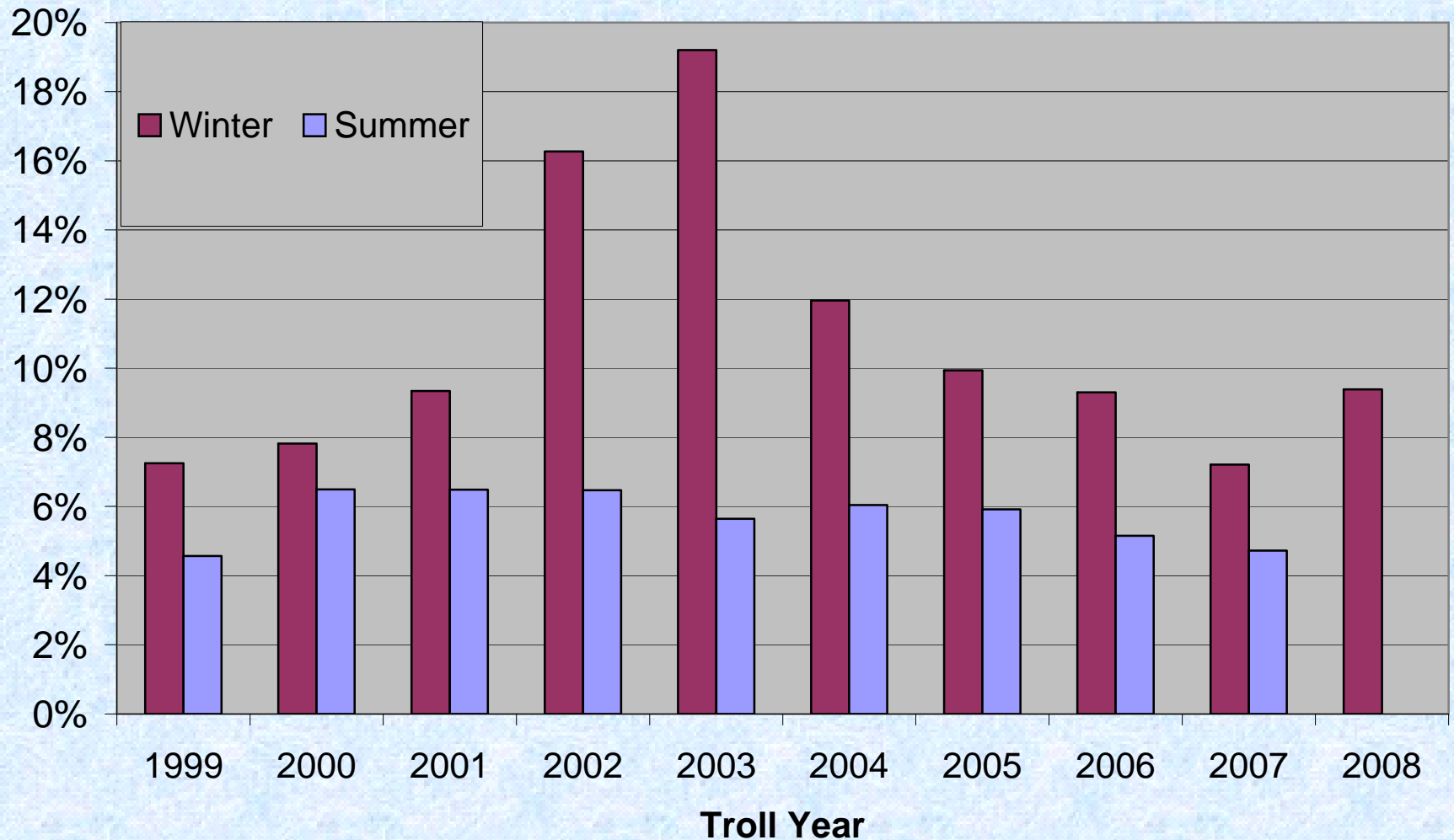


Chinook Salmon

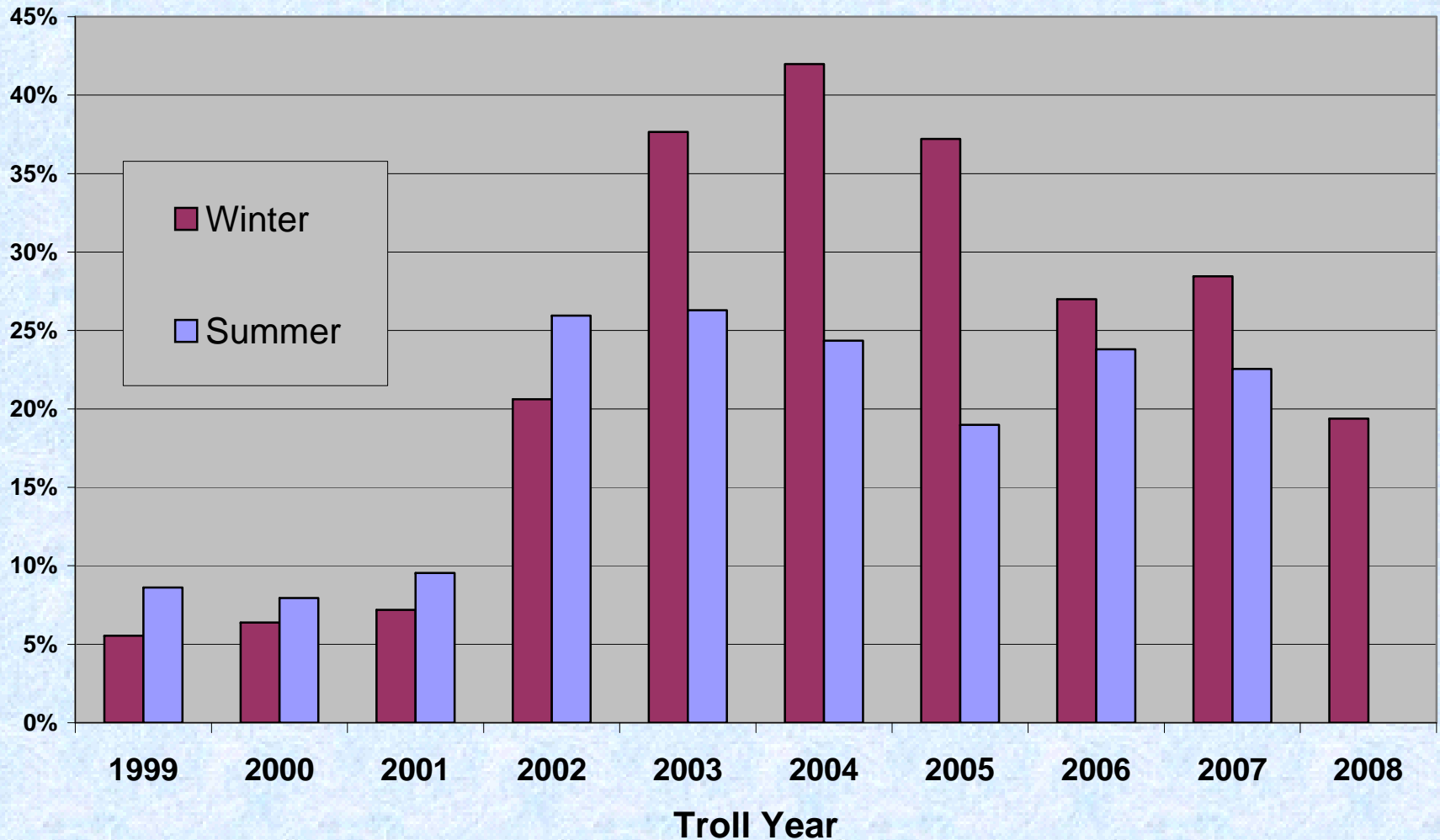
Total Troll Catch and Percent Sampled



Percent of Adipose Clipped Alaska Troll Chinook Salmon

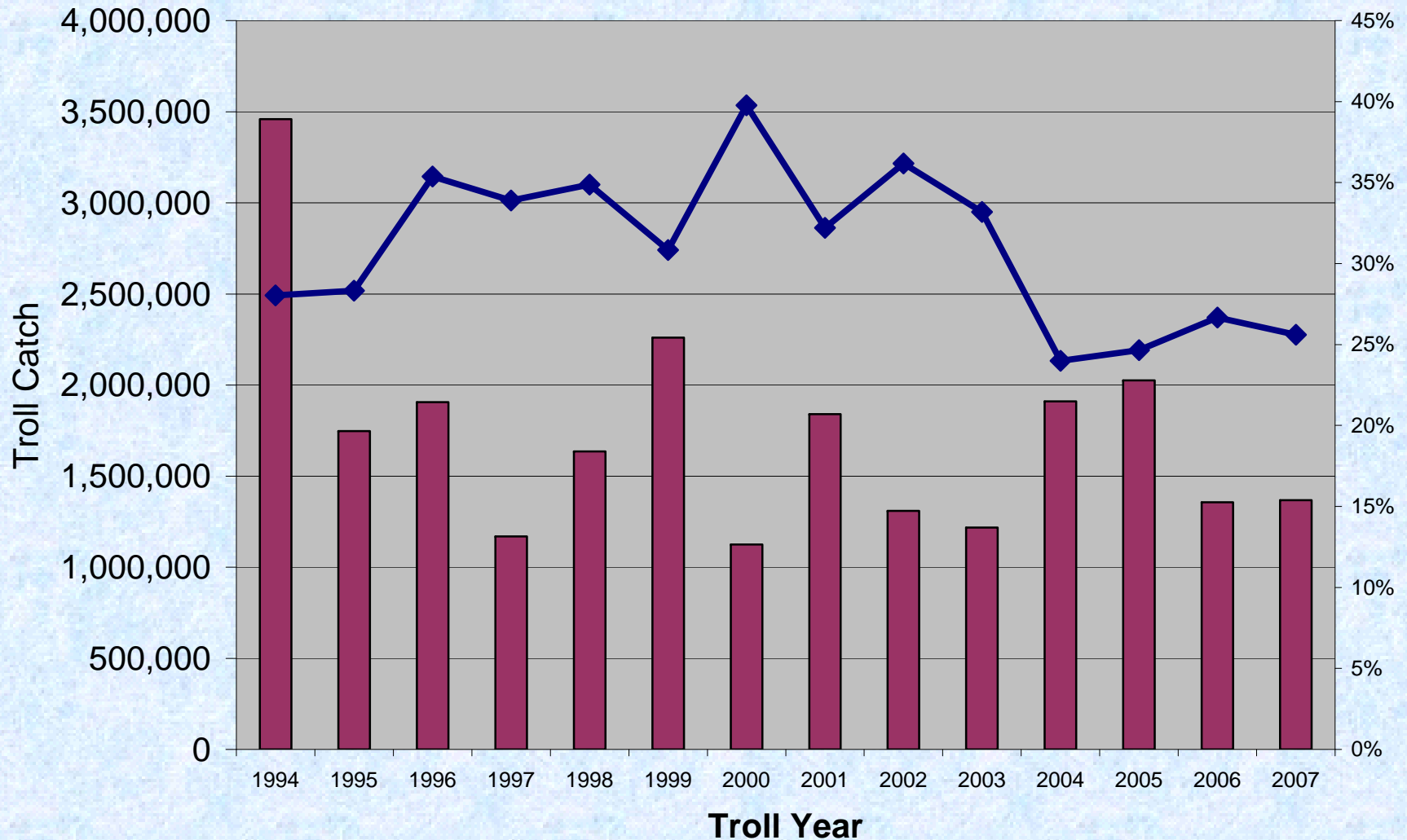


Percent of Adipose Clipped Troll Chinook without Tags

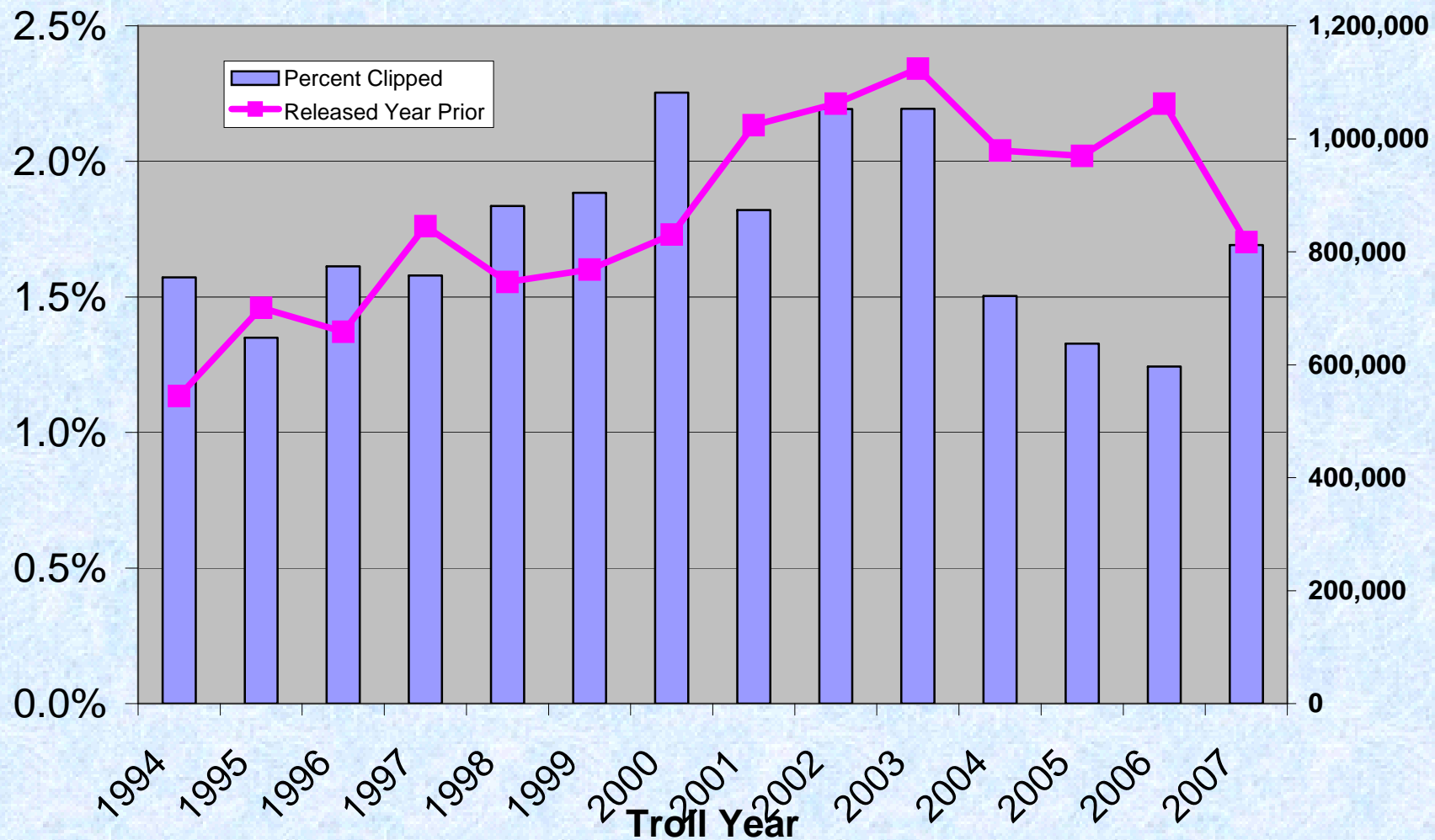


Coho Salmon

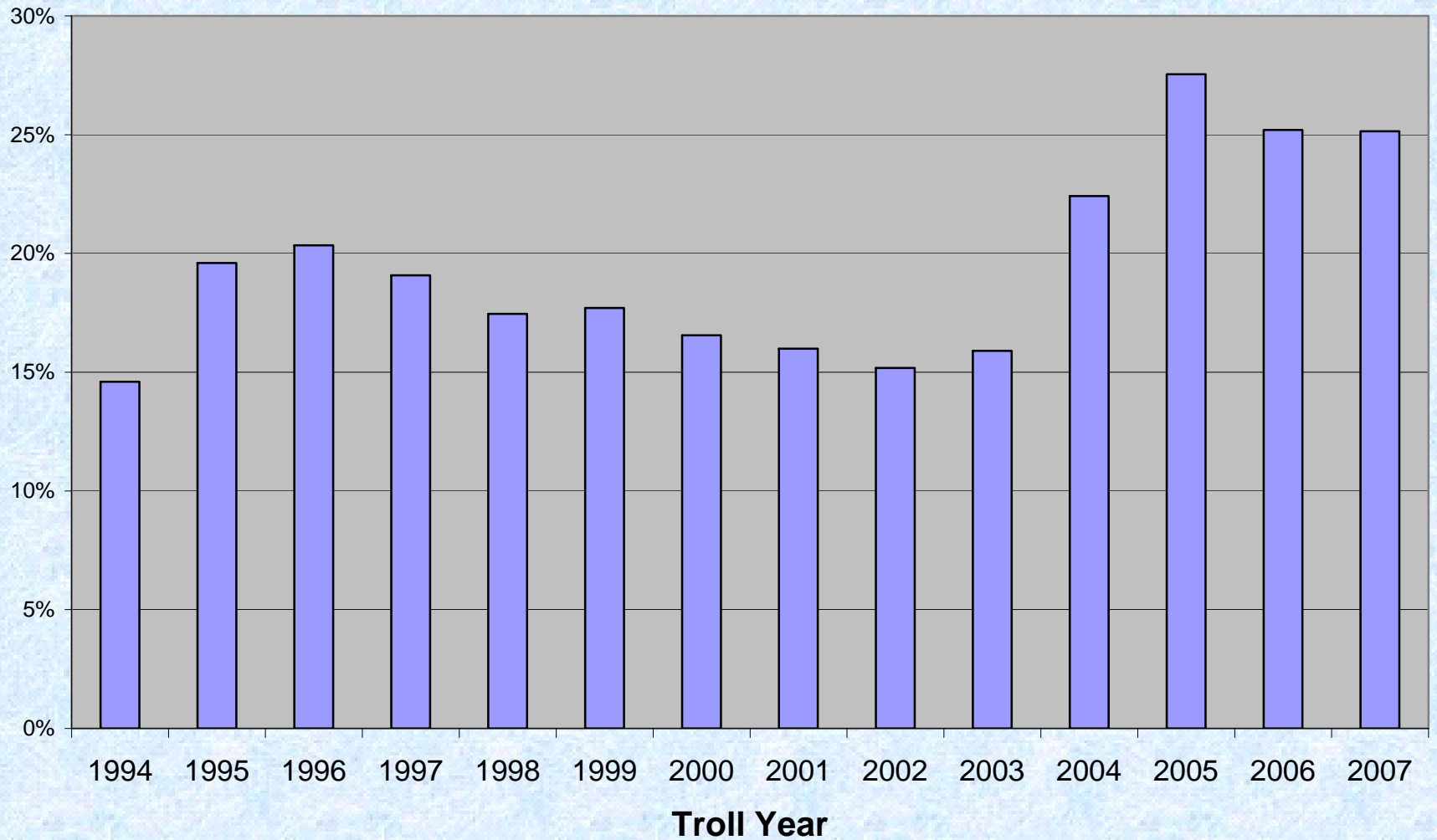
Total Troll Catch and Percent Sampled



Percent of Adipose Clipped Alaska Troll Coho Salmon

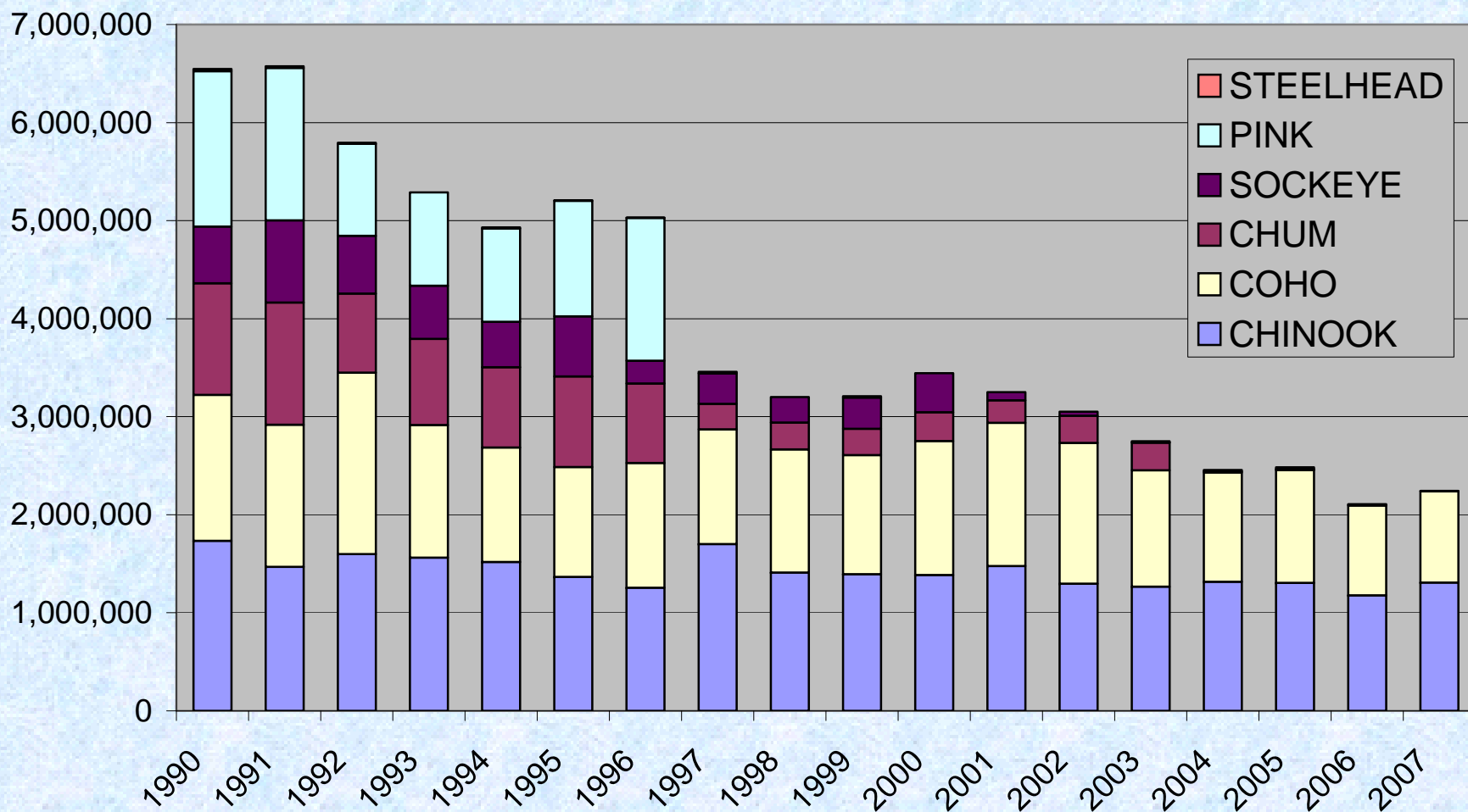


Percent of Adipose Clipped Troll Coho without Tags



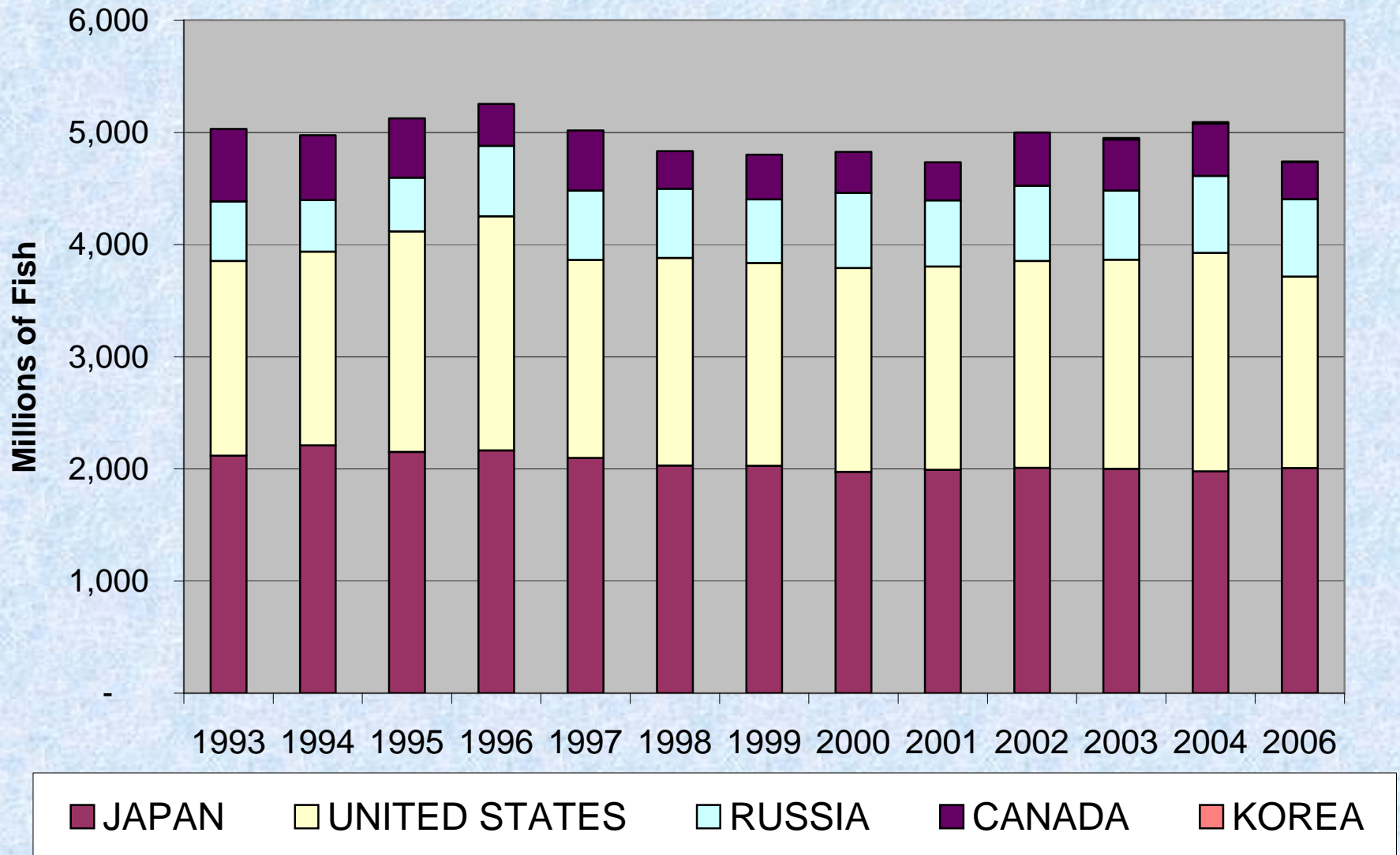


Releases of Coded Wire Tagged Salmon in Alaska

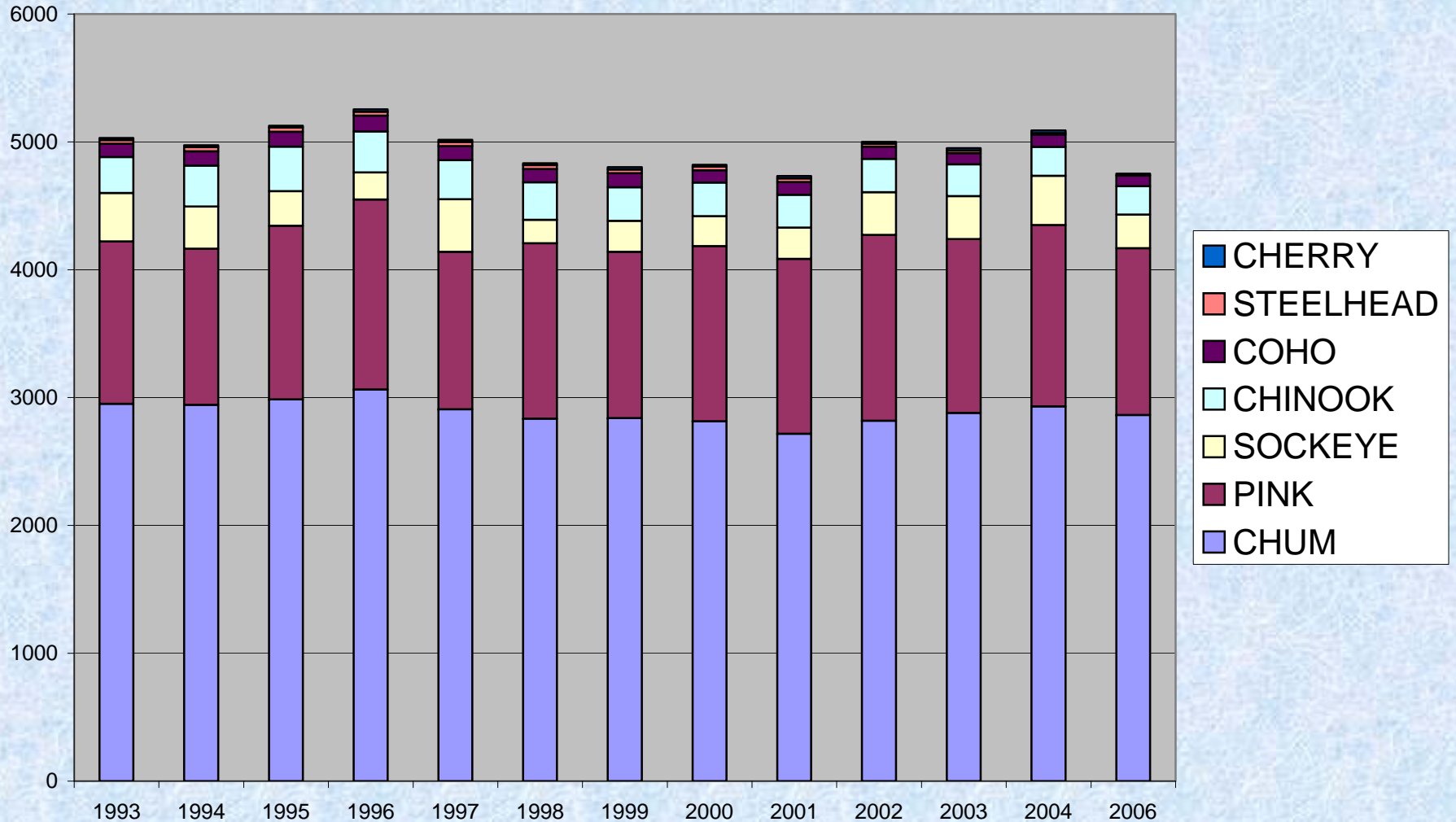




Annual Releases of Salmon by Country

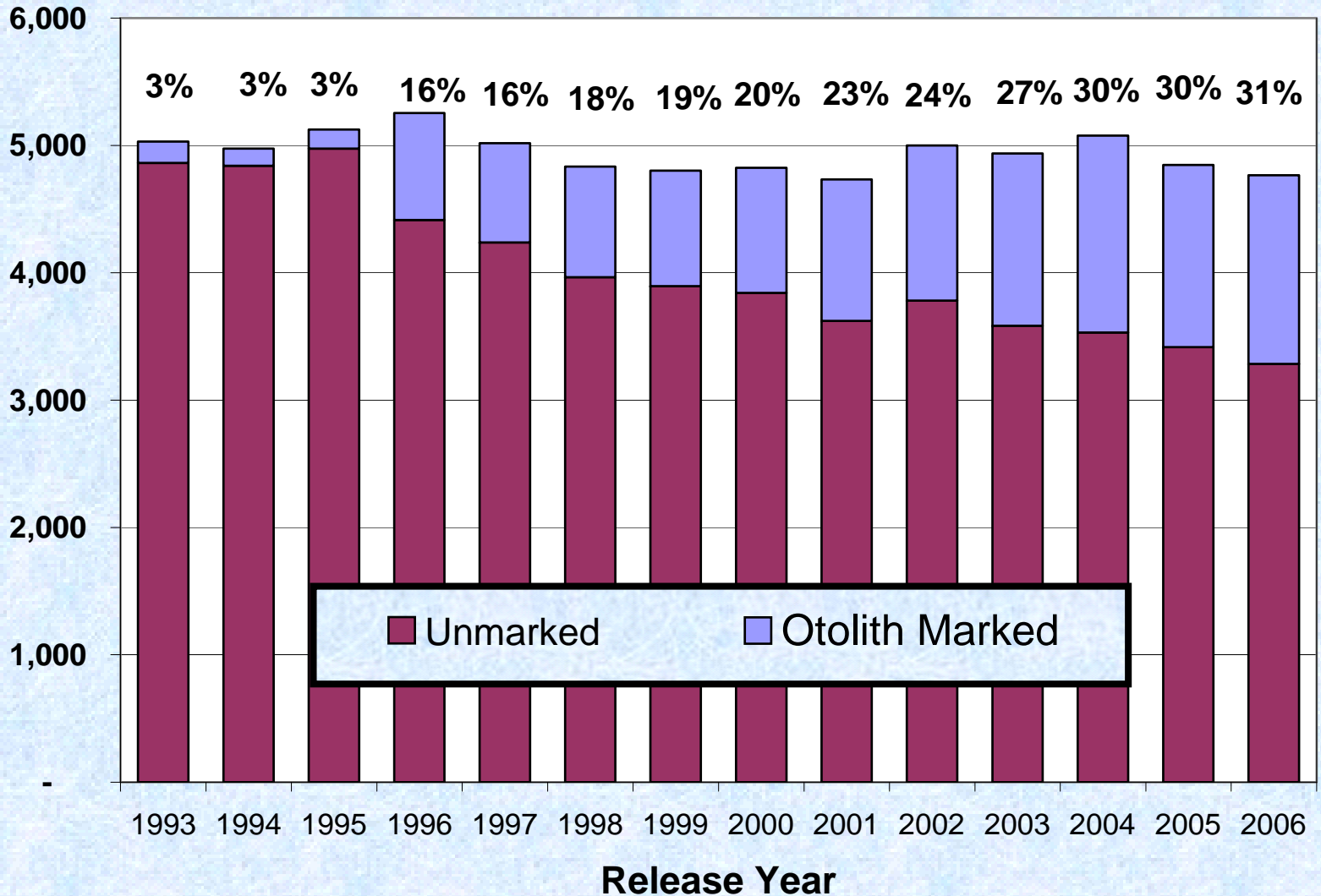


North Pacific Releases By Species

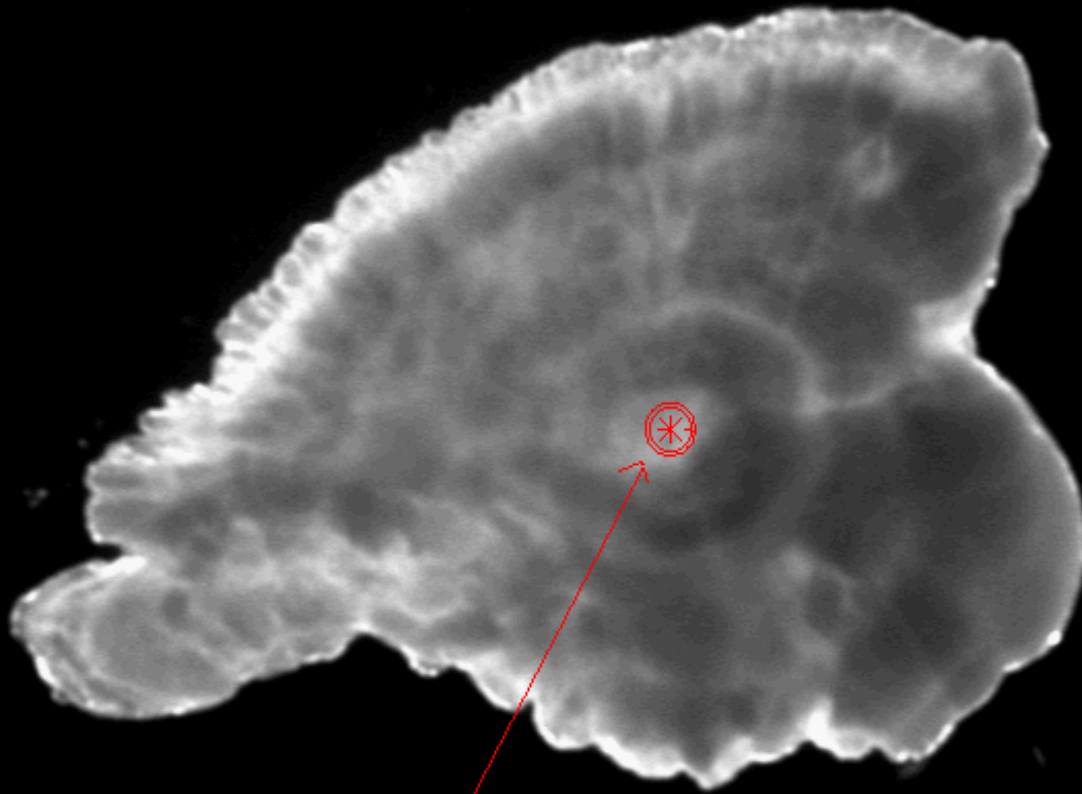


Growth of Otolith Marking in North Pacific

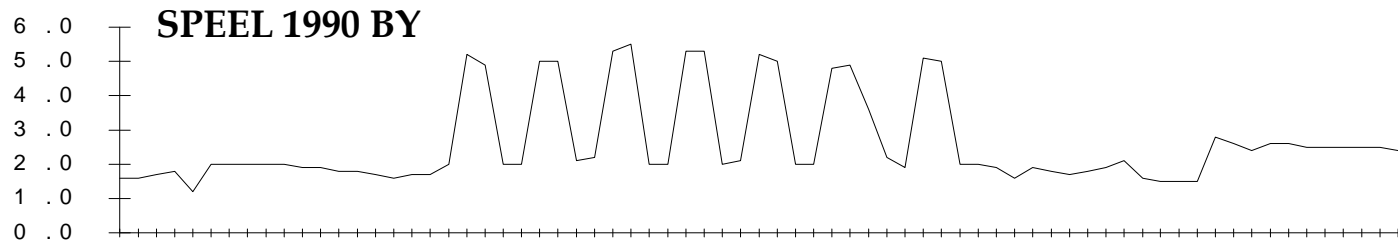
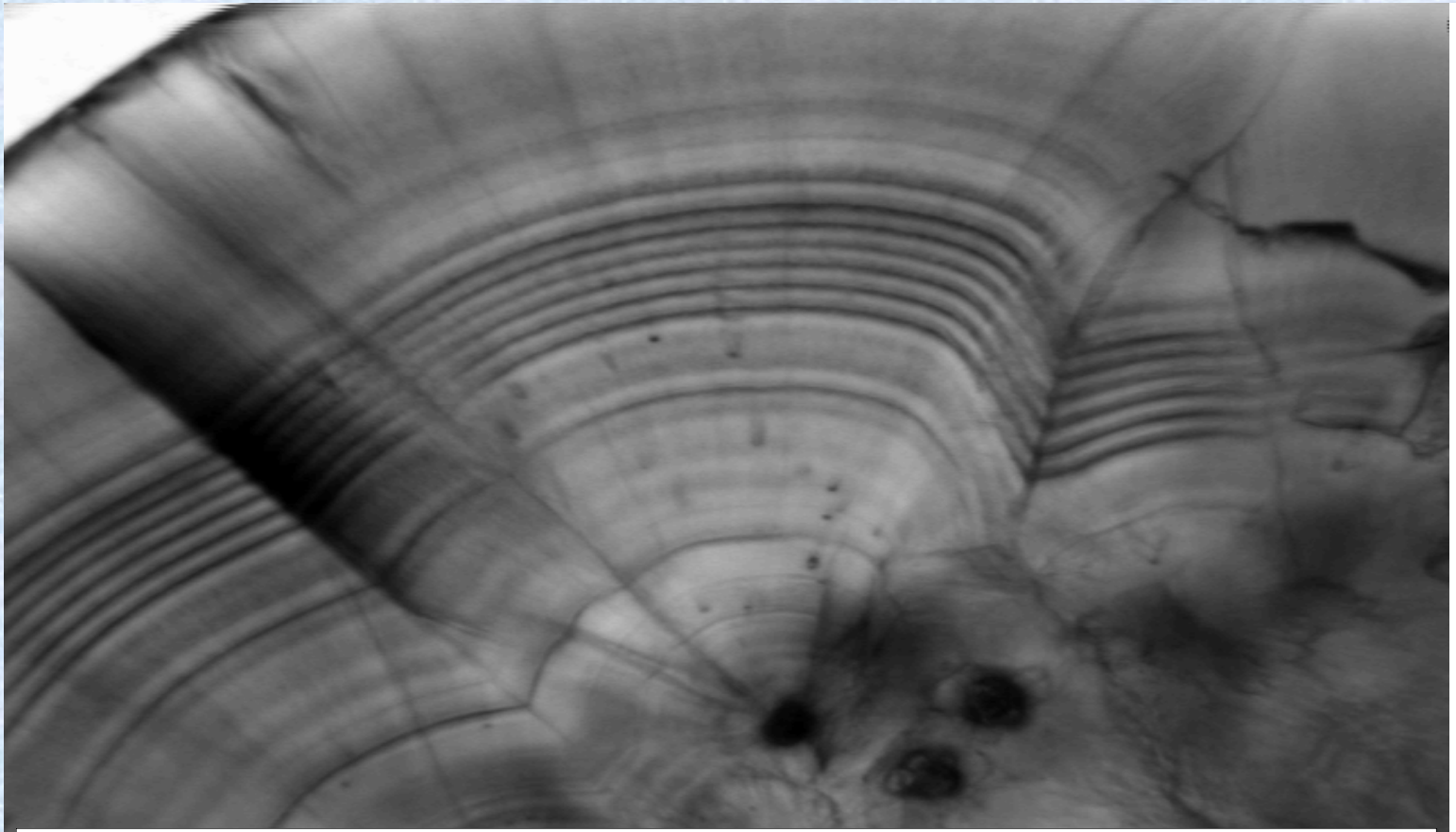
Hatchery Releases in Millions
of Salmon
(and Percent Otolith Marked)



Sockeye otolith < 5.3 mm >

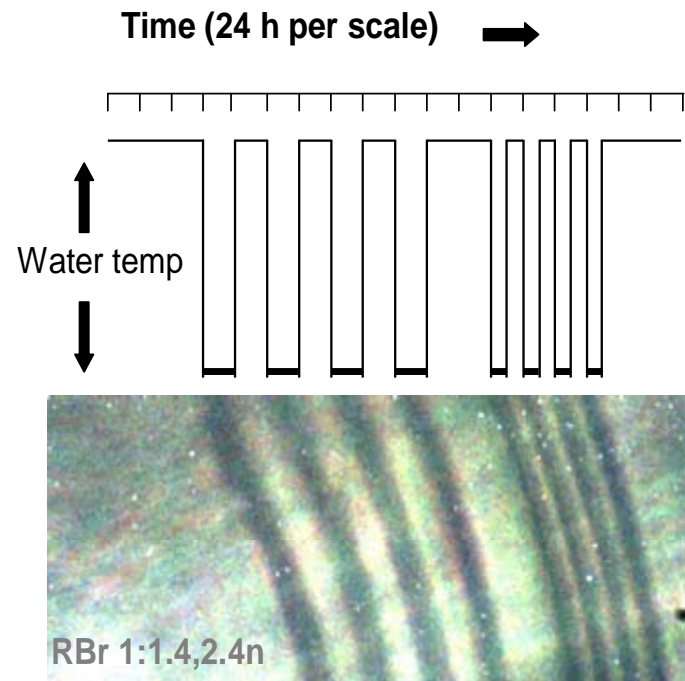
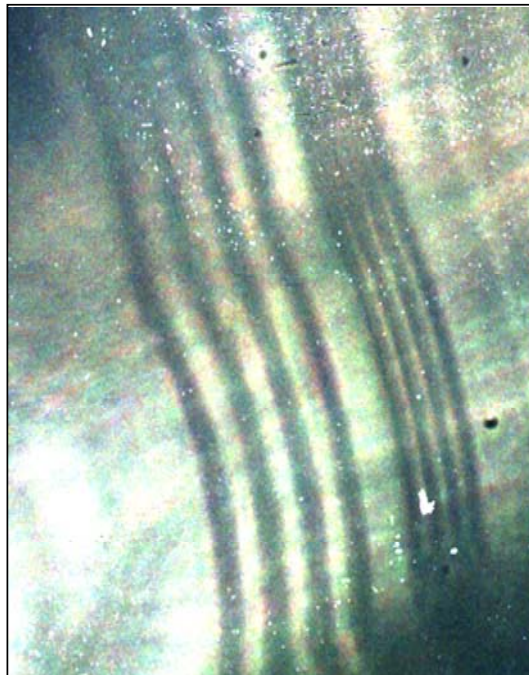


Thermal mark < 0.02 mm >



Thermal Otolith Marking

A dark ring is created in the otolith by a rapid temperature decline of at least 3°C during the eyed egg stage or after hatching. By planning a sequence of temperature changes, hatchery can produce specific marks.



Otolith Marked Salmon Releases in the North Pacific by Country

