Pacific Northwest Salmon

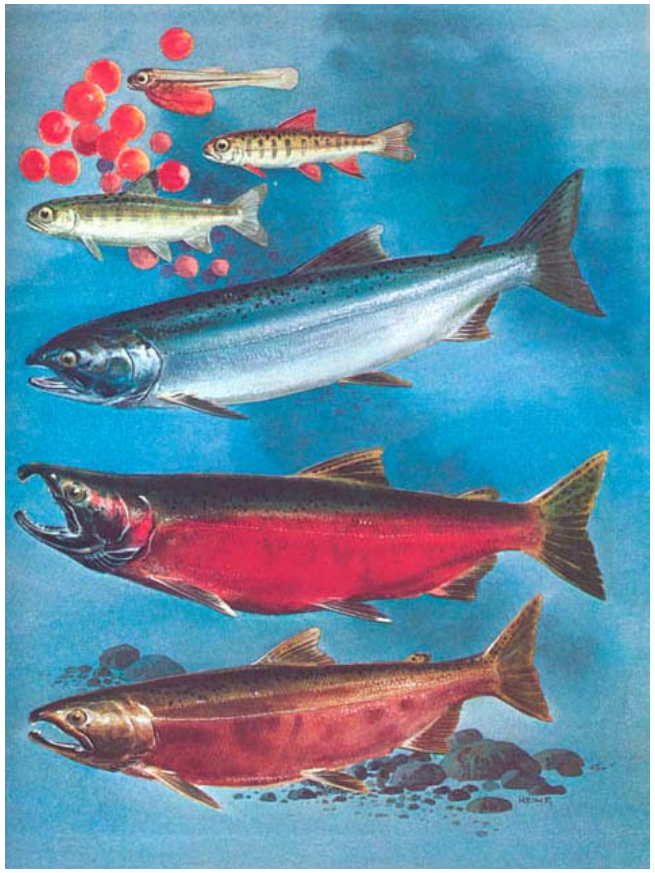
- Chinook
- Coho
- Pink
- Sockeye
- Chum

Chinook

- **Freshwater duration: 6 months to 2 years**
- **Marine duration, 1 to 5 years**
- **Normal return age; 3 to 5 years**
- **Adult Size: largest of the salmon species, normal range 15 to 25 pounds**
- **Ocean distribution: Washington coast and southern B.C.**
- **River entry timing: May though September**

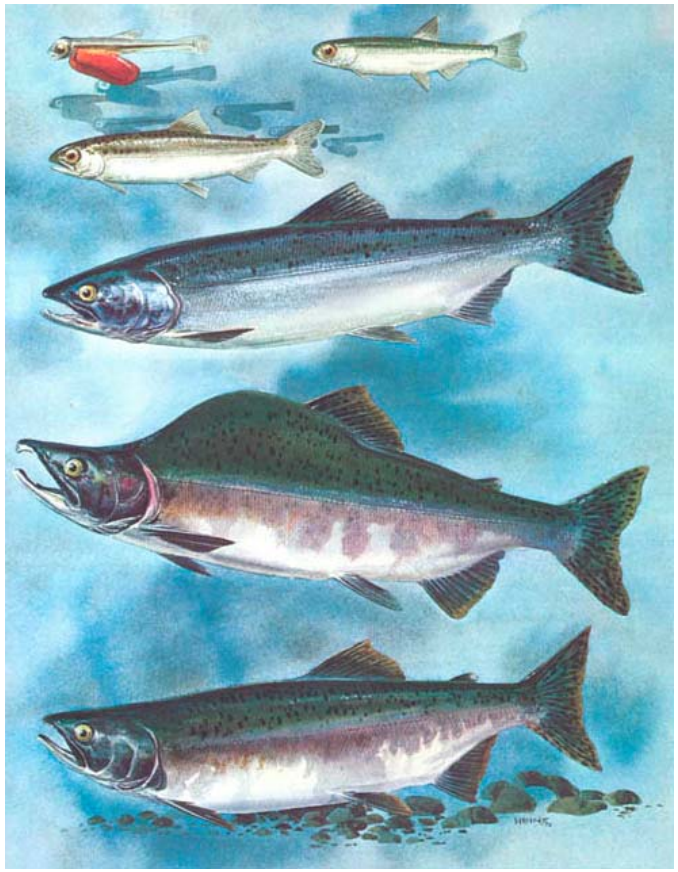
Coho

- **Freshwater duration: 1 to 2 years**
- **Marine duration: 1 to 2 years**
- **Normal age at return: 3 years**
- **Adult size: 7 to 12 pounds**
- **Ocean distribution: Washington and Oregon coast, British Columbia**
- **River entry Timing: September through December**



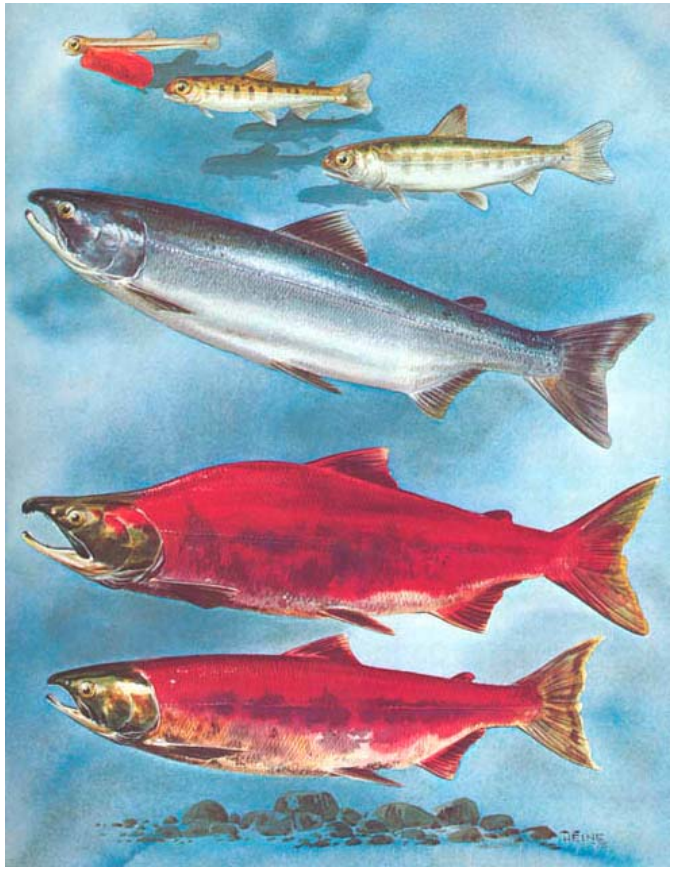
Pink Salmon

- **Freshwater duration: few weeks to few months**
- **Marine duration: 1.5 years**
- **Normal age at return: 2 years, returning on odd numbered years in Washington**
- **Adult size: 3 to 5 pounds.**
- **Ocean distribution: British Columbia, SE Alaska**
- **River entry timing: August/September**



Sockeye

- **Freshwater duration: 1-2 years**
- **Marine duration: 1 to 4years**
- **Normal age at return: 3 to 5 years**
- **Adult size: 4 to 7 pounds**
- **Ocean distribution: British Columbia, SE Alaska**
- **River entry timing: July through September.**



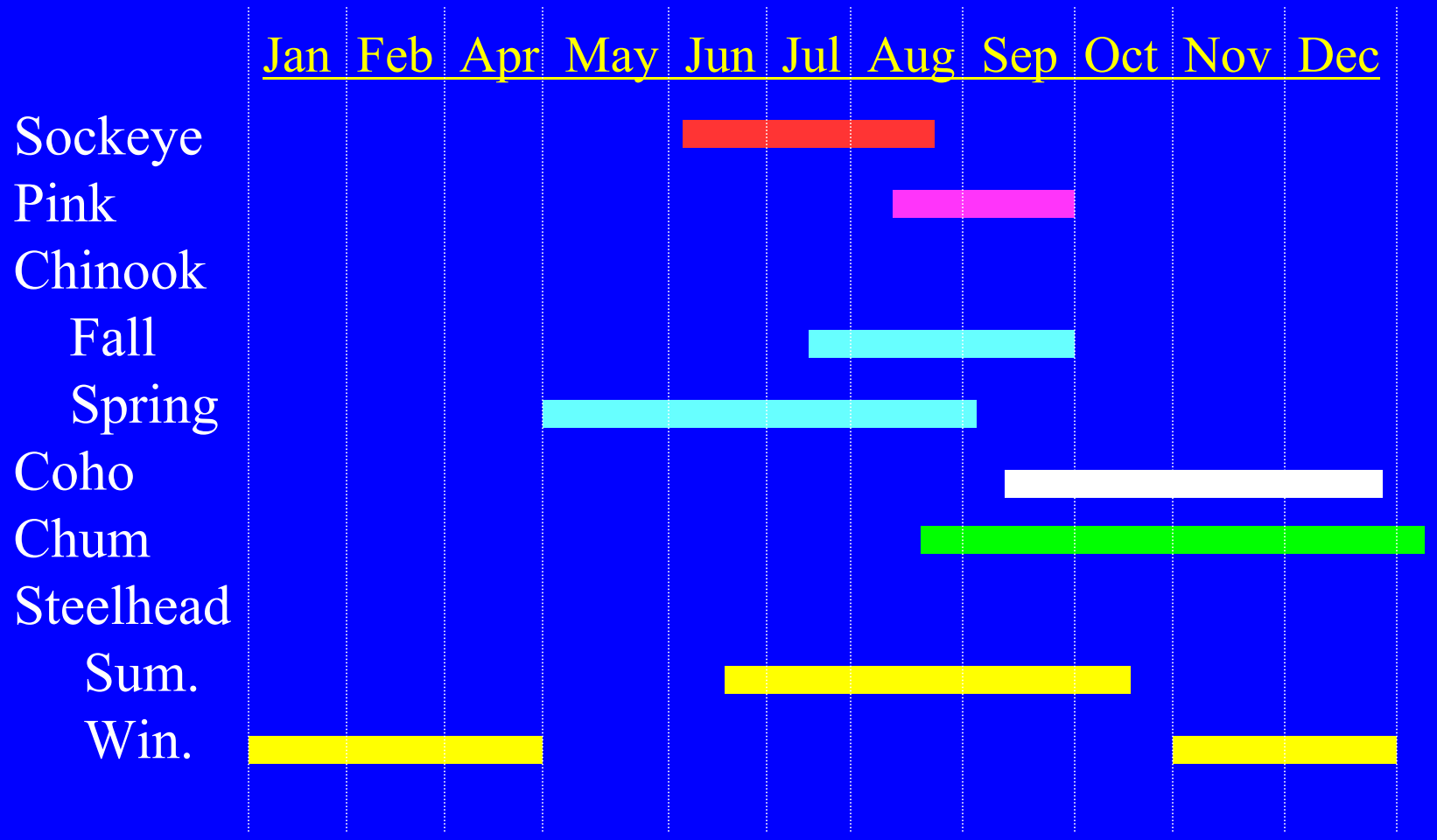
Chum

- **Freshwater duration: few to several weeks**
- **Marine duration: 3 to 5 years**
- **Normal at return: 3 to 5 years**
- **Adult size: 8 to 15 pounds**
- **Ocean distribution: British Columbia and SE Alaska**
- **River entry timing- August through January**

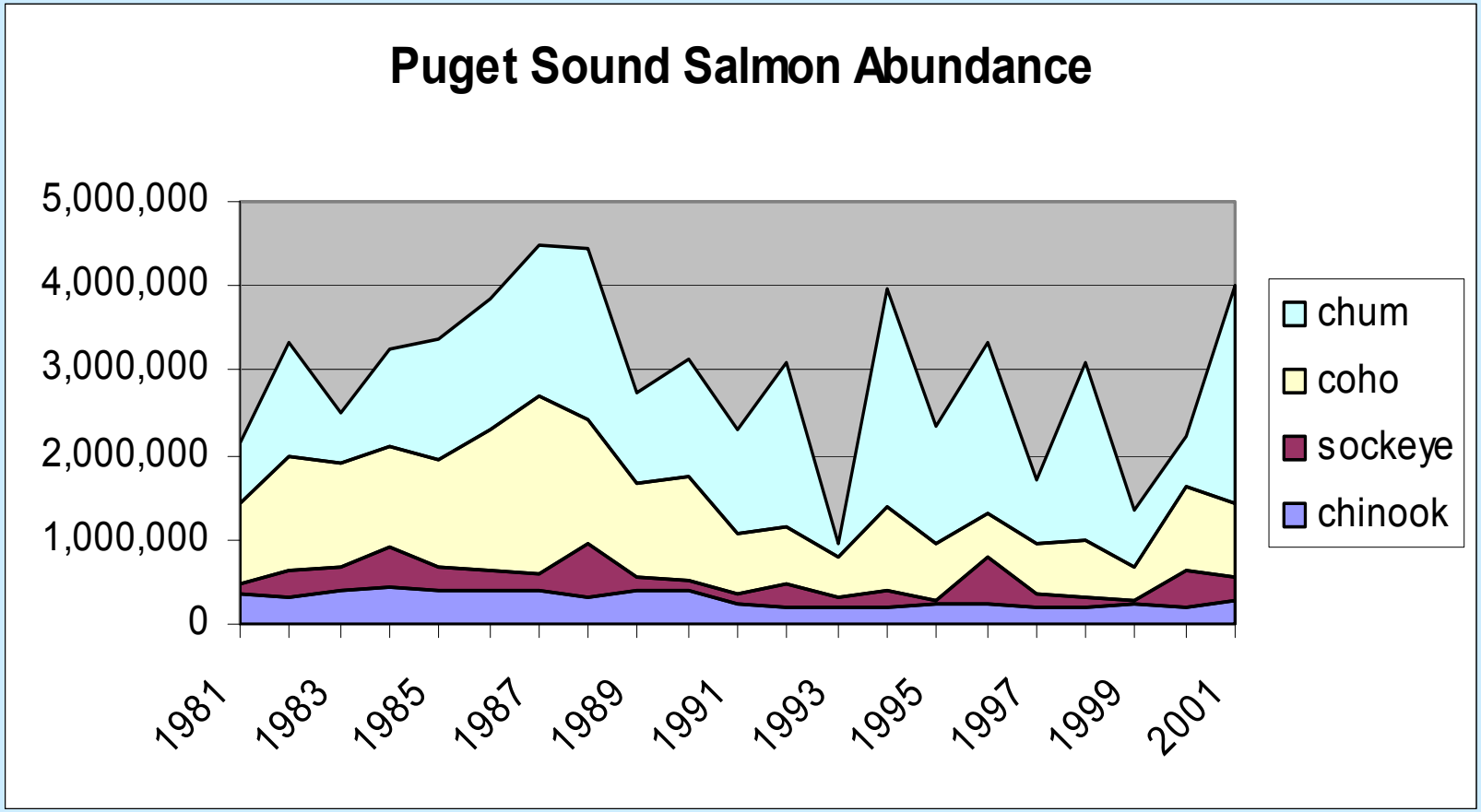
Salmon Life History Summary

Species	Size(kg)	FW life	Marine Life	Adult Age
Chinook	**5-15**	**6mo-2yrs**	**1-5 yrs**	**3-6**
Coho	**3-5**	**1-2yrs**	**1-2 yrs**	**3**
Pink	**2-2.5**	**Few-several wks**	**2 yrs**	**2, returns on odd years**
Sockeye	**2-3**	**1-2yrs**	**1-4 yrs**	**3-5**
Chum	**4-6**	**Few-several wks**	**3-5 yrs**	**3-5**

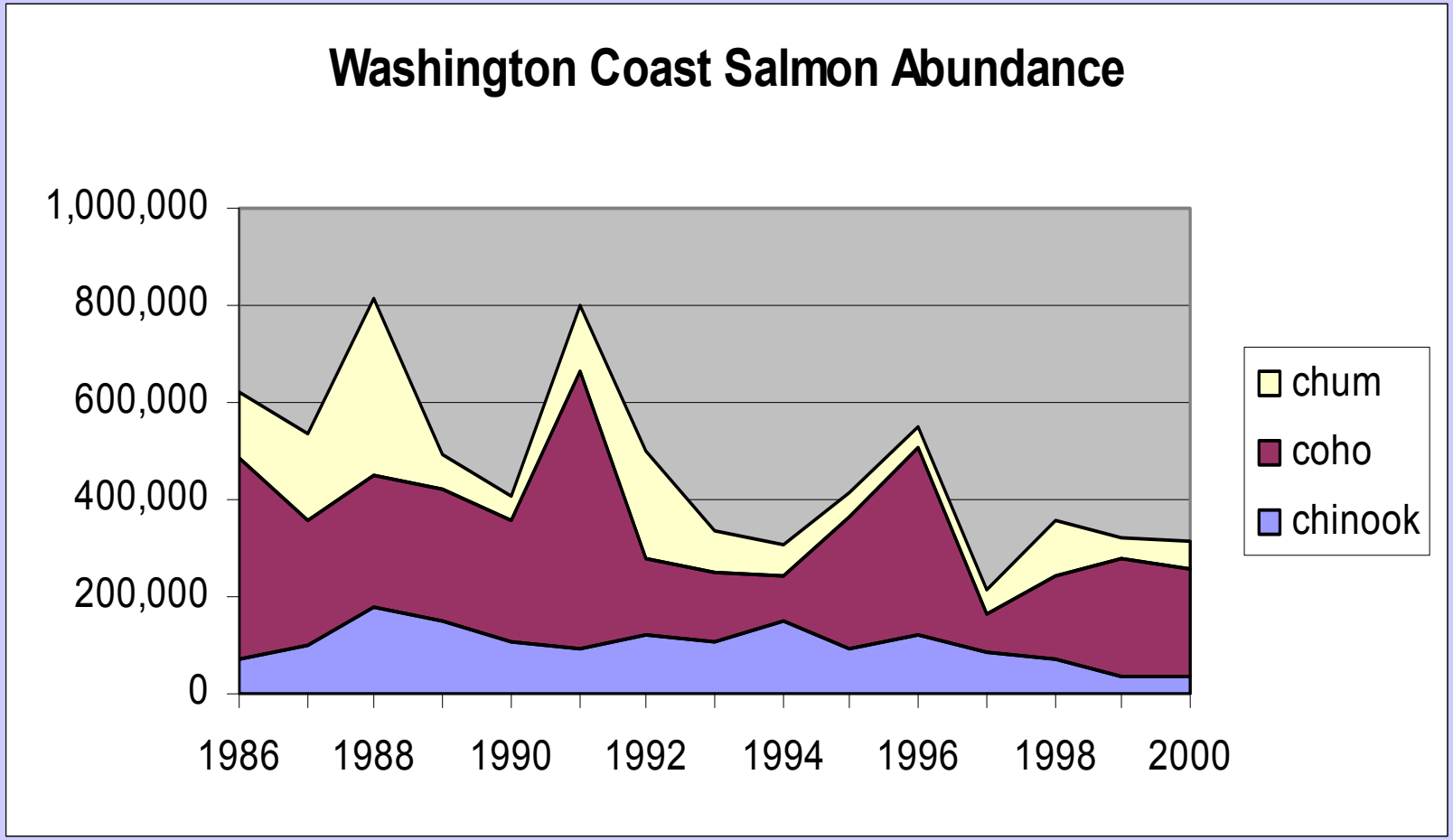
Puget Sound Salmon/Steelhead River Entry Timing



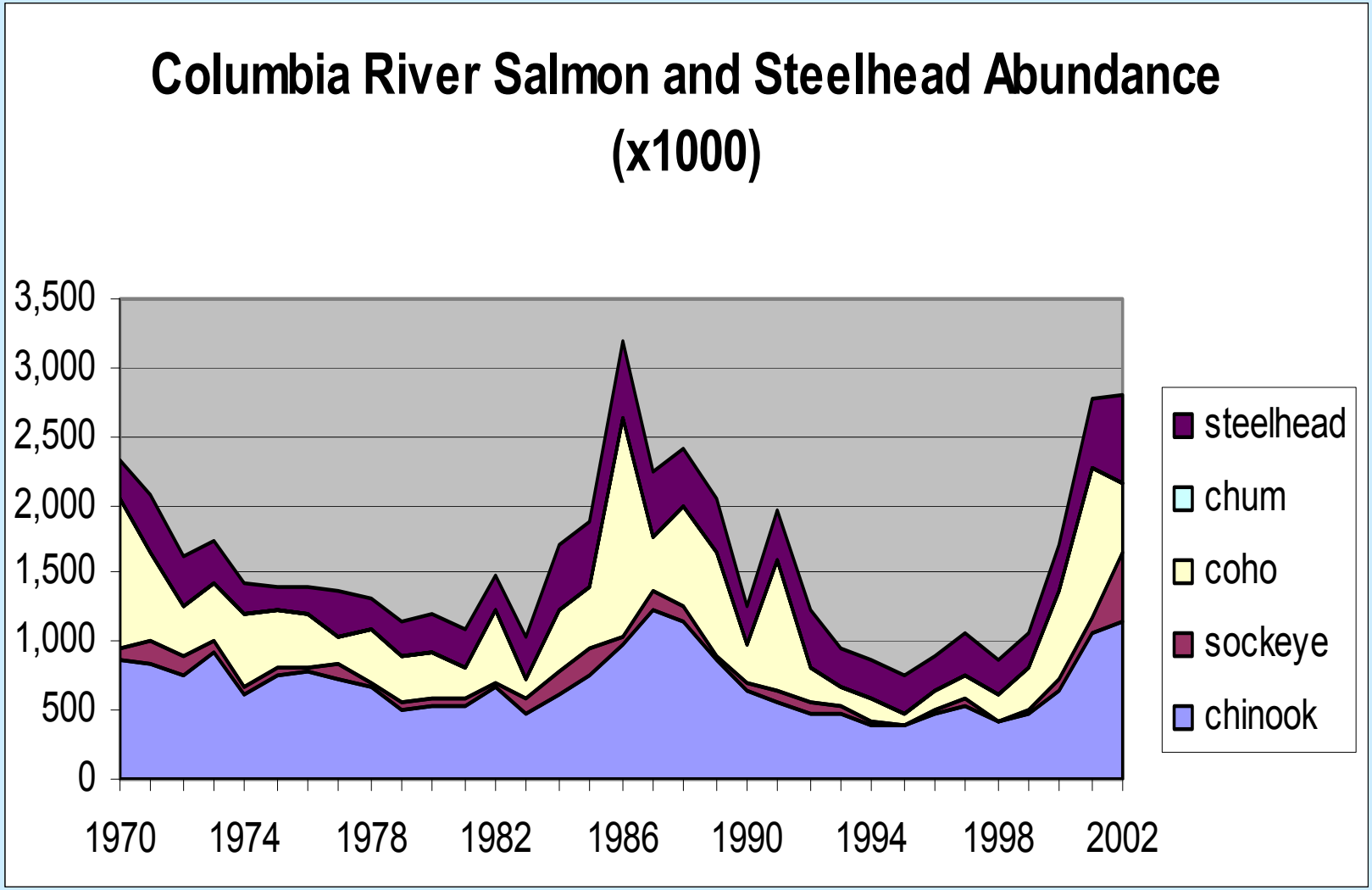
Puget Sound


Puget Sound Salmon Abundance
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
1981
1983
1985
1987
1989
1991
1993
1995
1997
1999
2001
chum
coho
sockeye
chinook

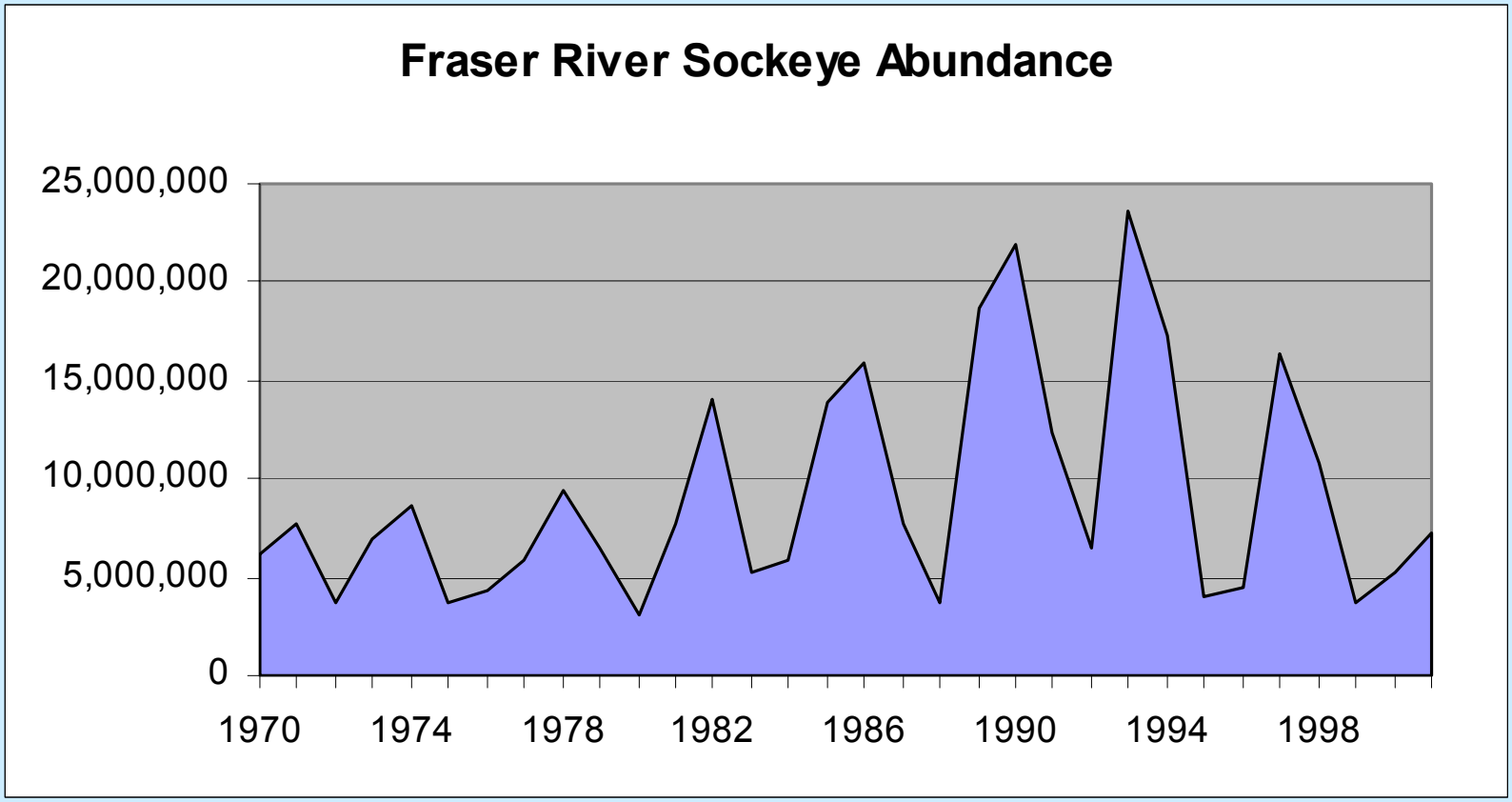
Washington Coast



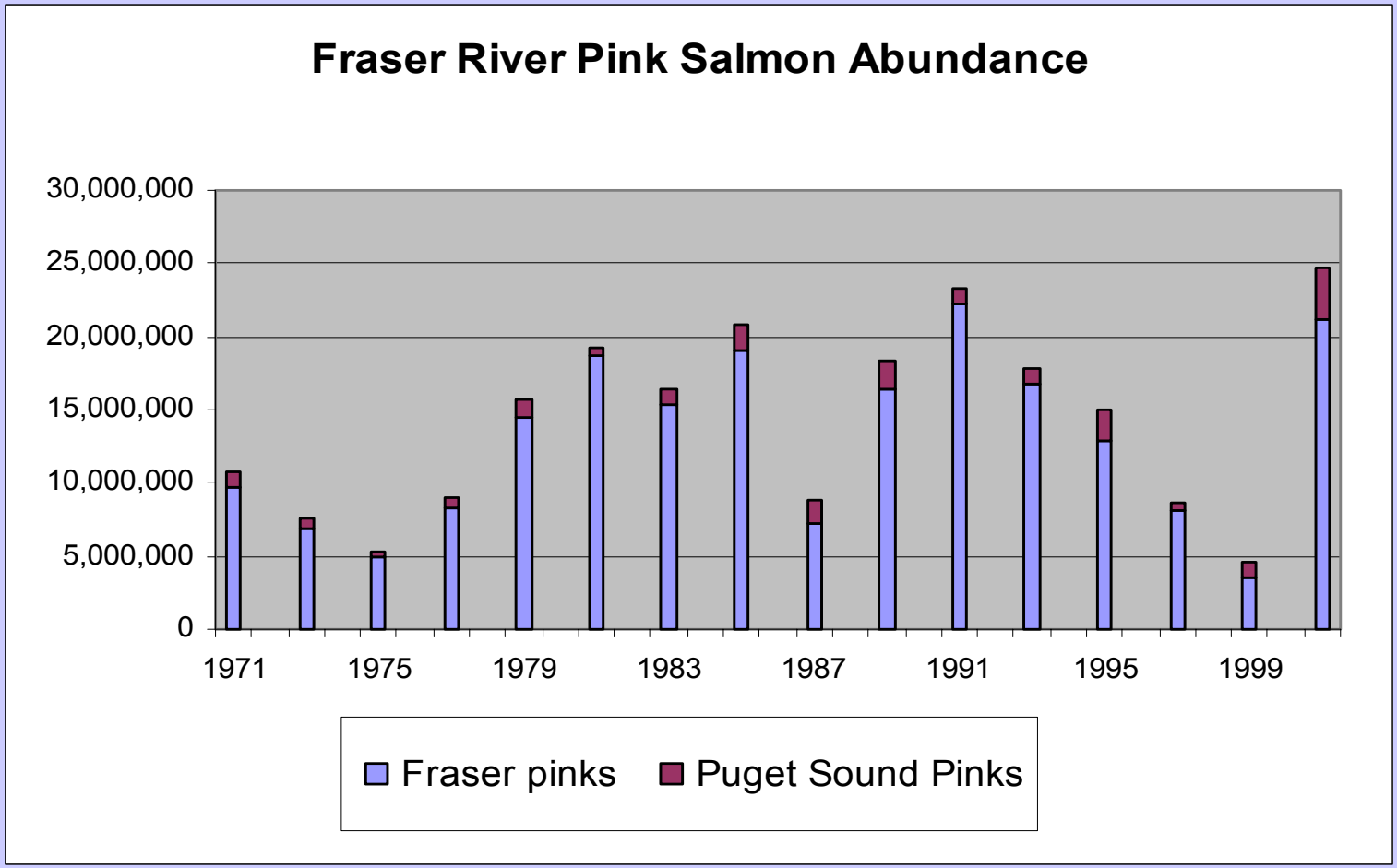
Columbia River

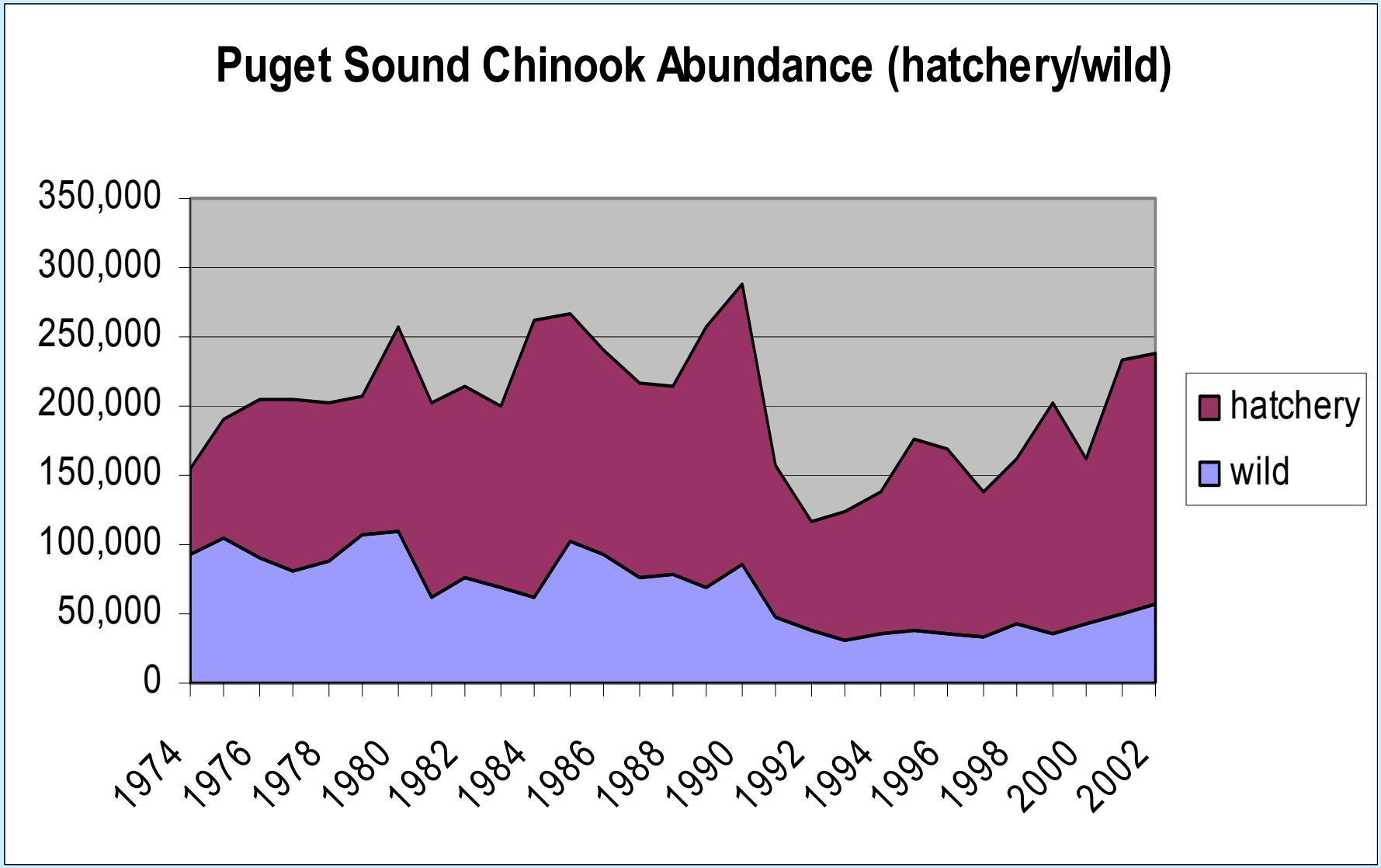


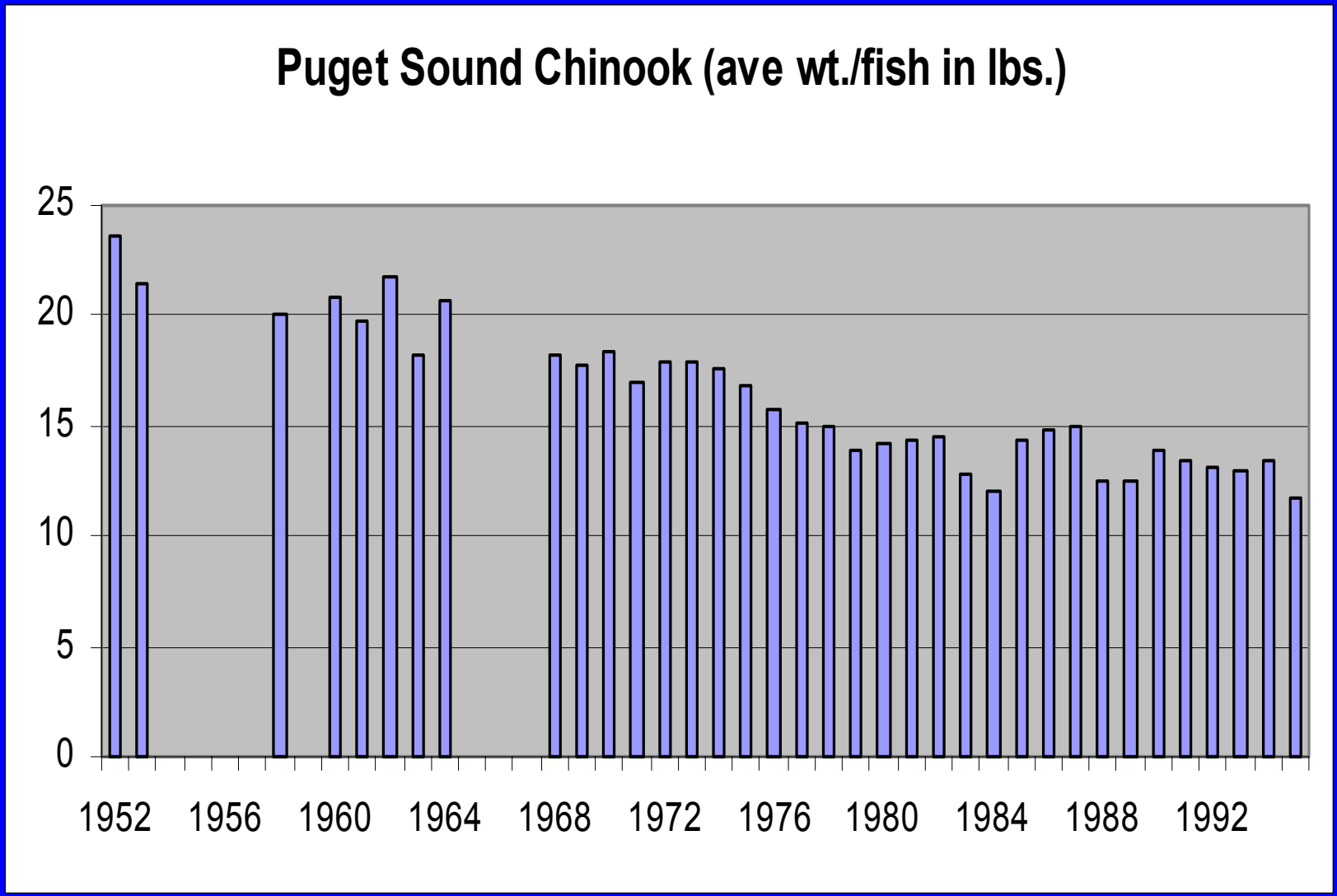
Fraser River Sockeye Salmon

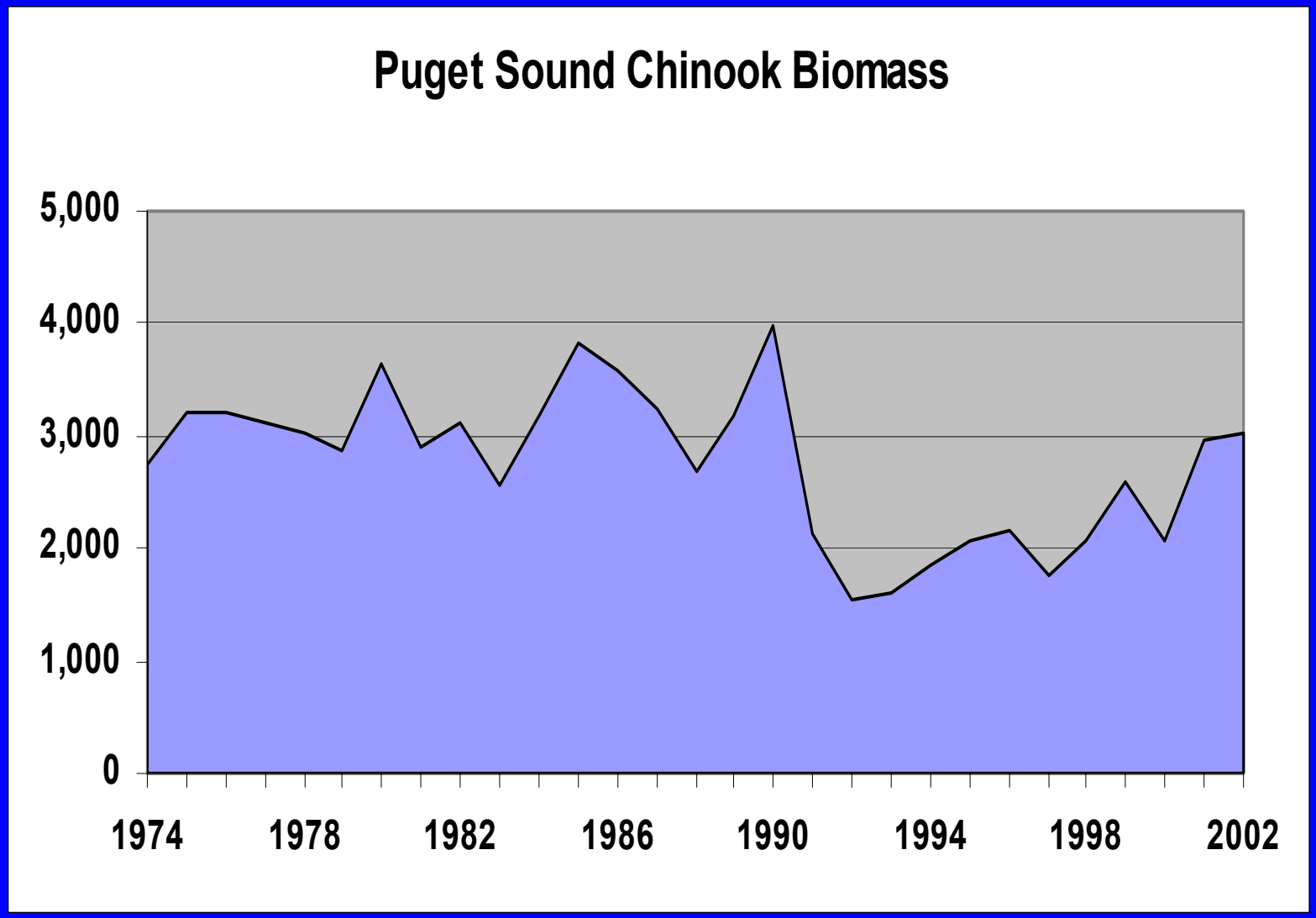


Fraser River Pink Salmon

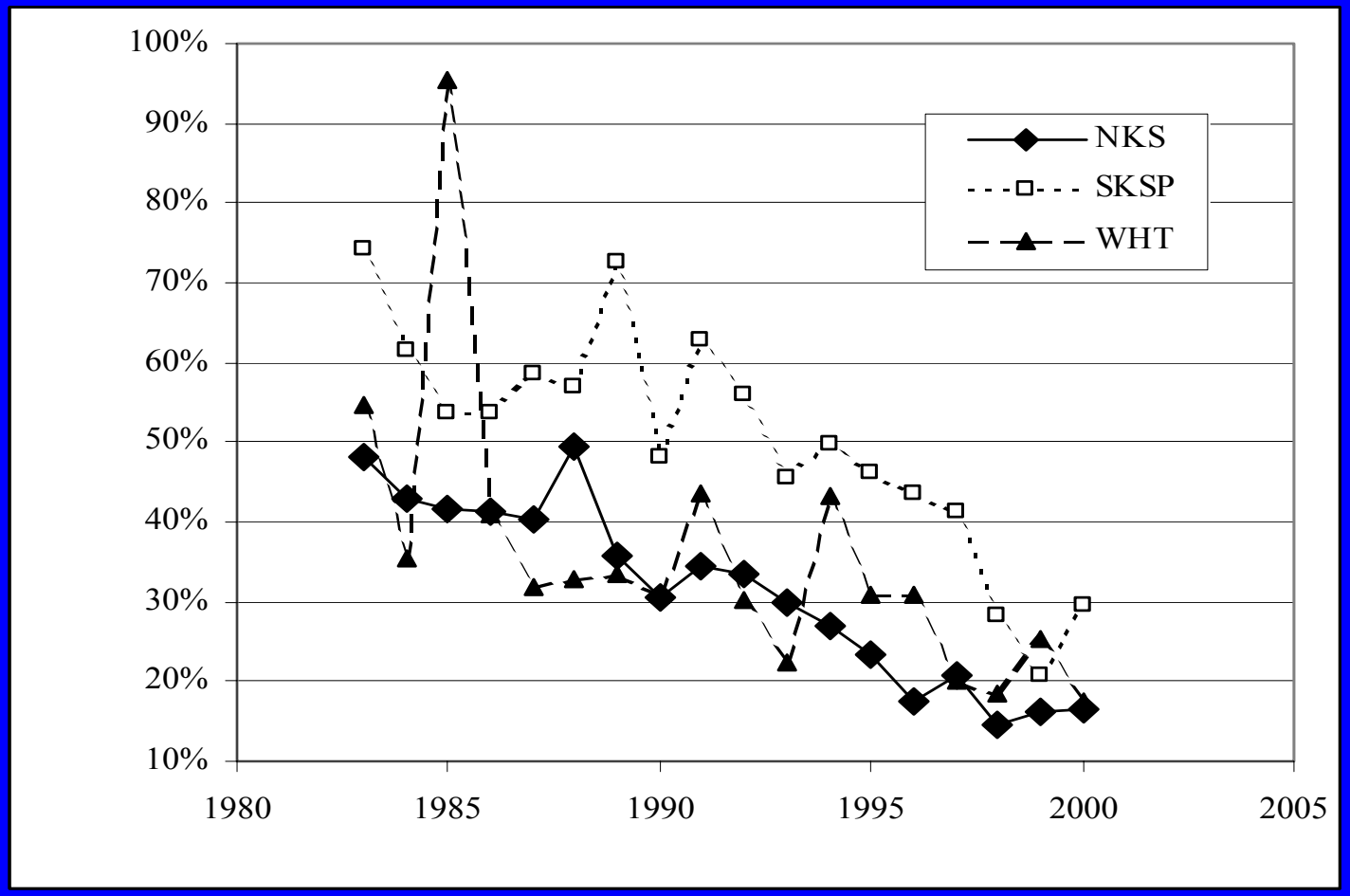



Puget Sound Chinook Abundance (hatchery/wild)
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
hatchery
wild

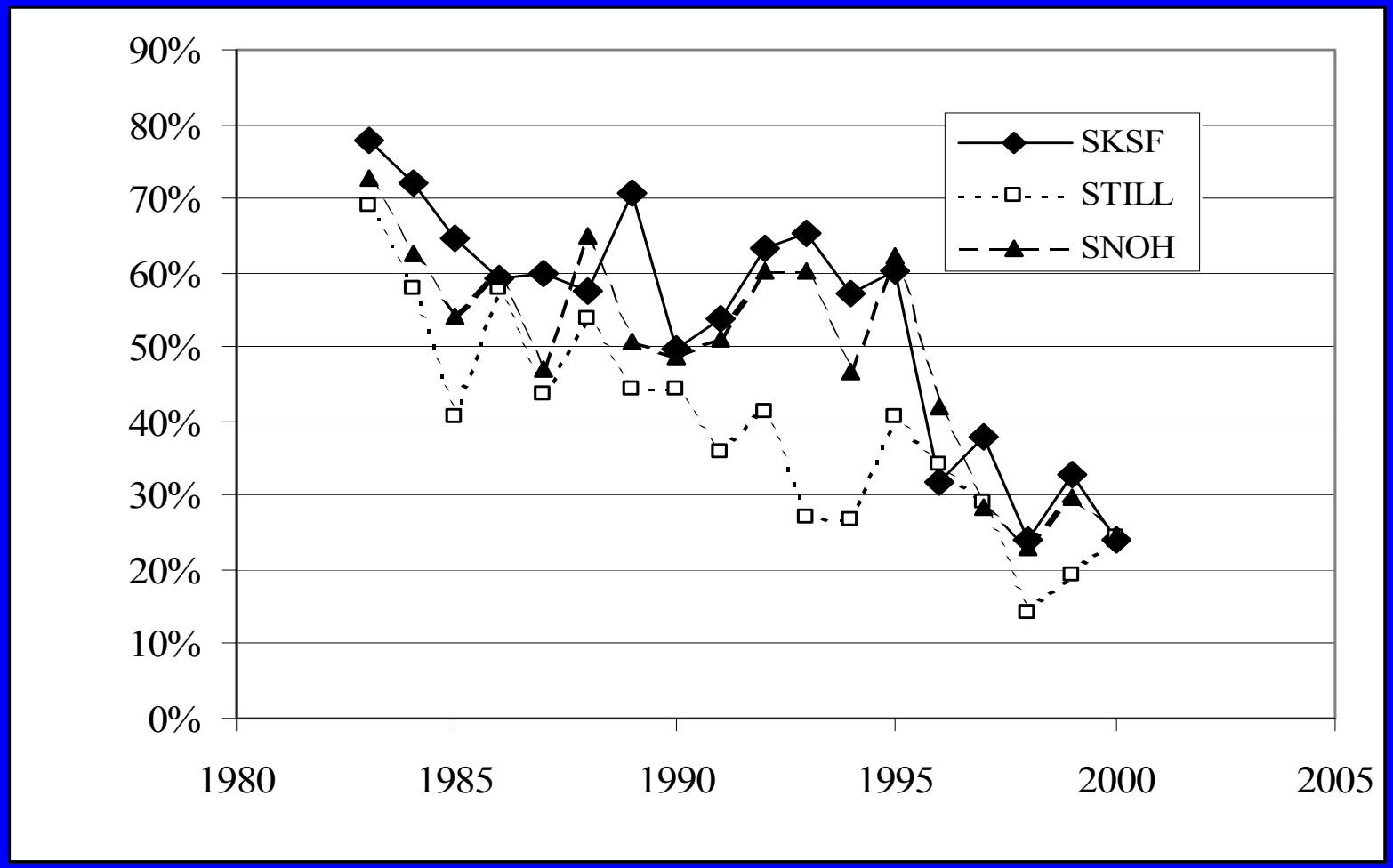

Puget Sound Chinook (ave wt./fish in lbs.)
25
20
15
10
5
0
1952
1956
1960
1964
1968
1972
1976
1980
1984
1988
1992


Puget Sound Chinook Biomass
5,000
4,000
3,000
2,000
1,000
0
1974
1978
1982
1986
1990
1994
1998
2002

Trend in total exploitation rate for Nooksack, Skagit, and White spring chinook management units (Post-season FRAM estimates).

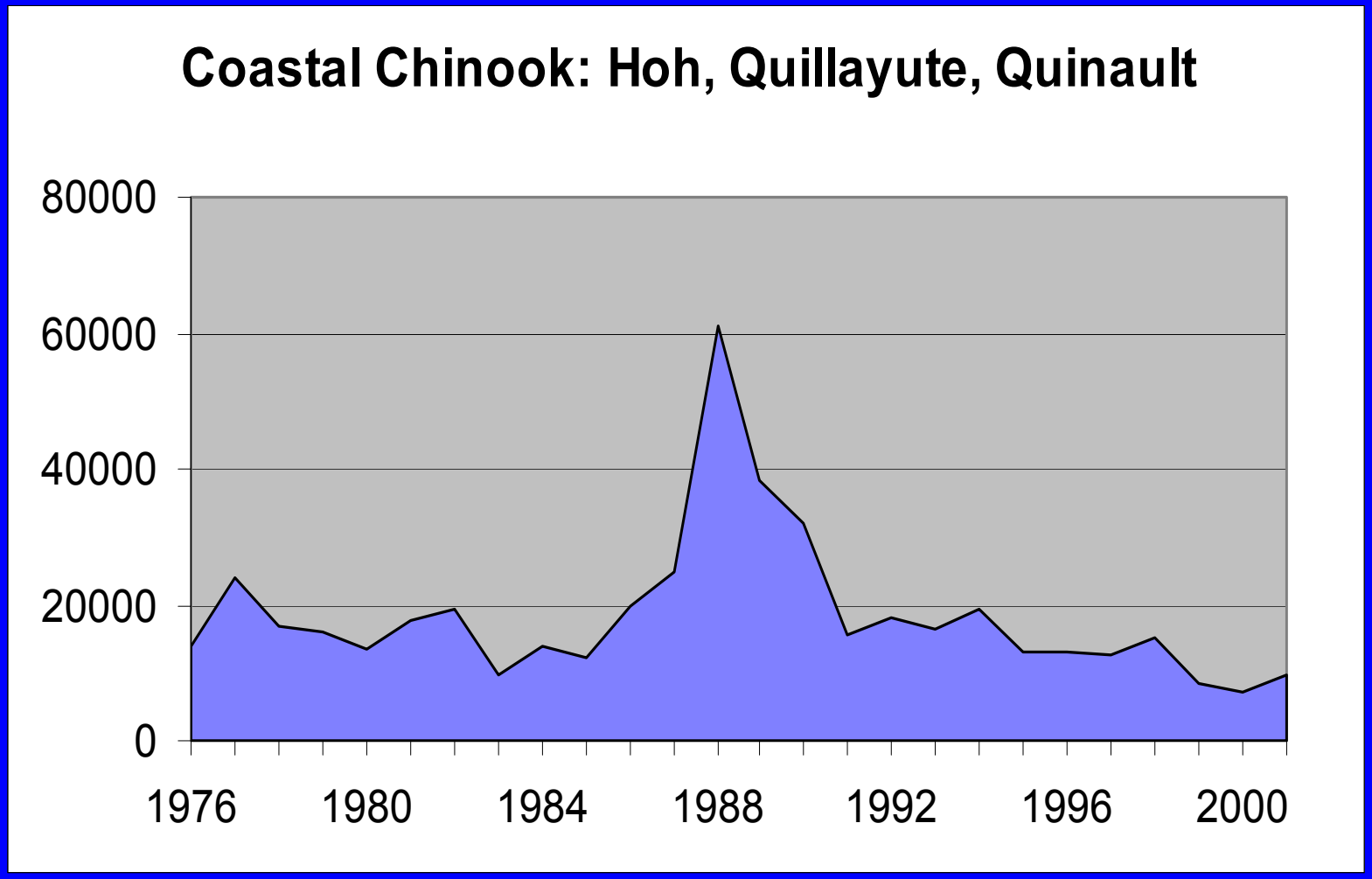
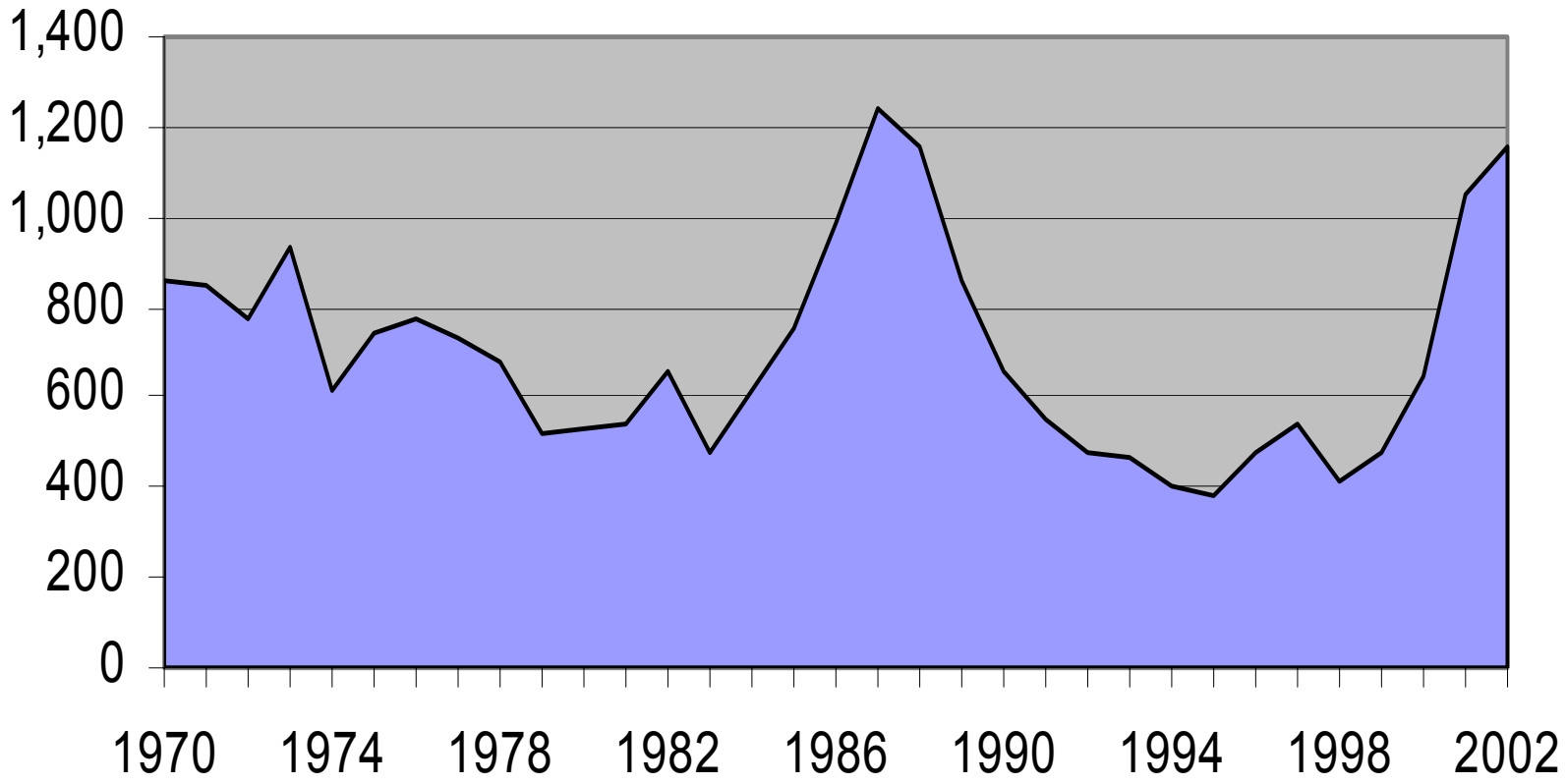


Trend in total exploitation rate for Skagit, Stillaguamish, and Snohomish summer/fall chinook management units. (Post season FRAM estimates).



Puget Sound Chinook Summary

- No apparent trend in total abundance shifts in last 30 years
- The composition of wild fish has decreased from about 50% to 22% since 1974.
- Average adult size of adult is 71% the weight as compared to early 1970s and 56% compared to the 1950s.
- Total exploitation rates have dropped from 70-80% to 20-30% since the mid-80s.
- Trends in available biomass???


Coastal Chinook: Hoh, Quillayute, Quinault
80000
60000
40000
20000
0
1976
1980
1984
1988
1992
1996
2000

Columbia River Chinook (x1000)