2018 Southeast Alaska Salmon Escapements

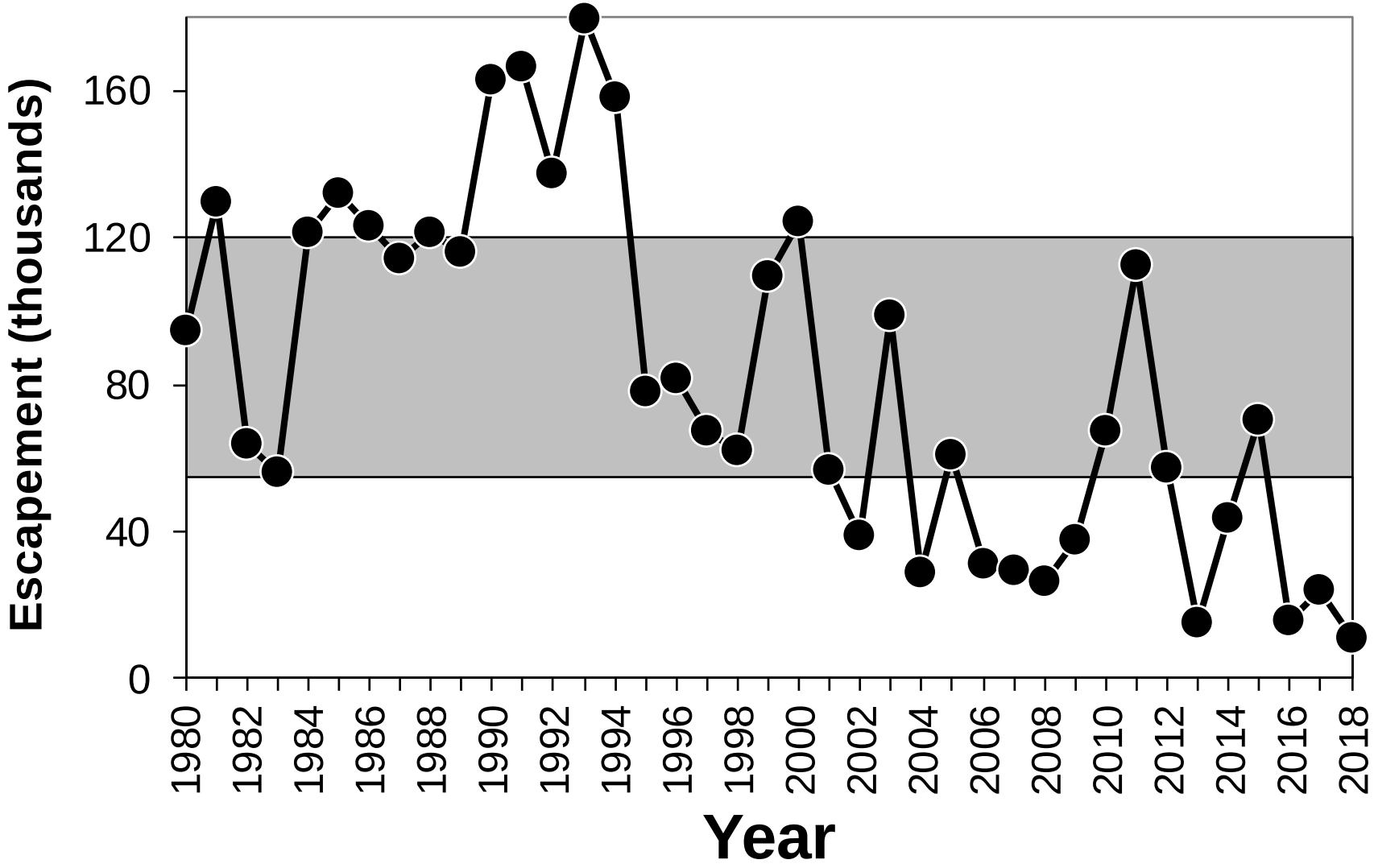
Photo by Steve Heinl

Sockeye Salmon

Stock	Goal Type[1]	Estimated Escapement or Index	Escapement Goal Range	Comment	Enumeration Method
Hugh Smith Lake	OEG	2,000	8,000–18,000	Below Goal	Weir Count
McDonald Lake	SEG	11,000	55,000–120,000	Below Goal	Expanded Foot Survey
Stikine—Mainstem	SEG	**ND**	20,000–40,000		Run Reconstruction
Stikine—Tahltan	BEG	**ND**	18,000–30,000		Weir Count
Speel Lake	SEG	4,200	4,000–13,000		Weir Count
Taku—in-river	SEG	108,000	71,000–80,000	Above Goal	Mark-recapture
Redoubt Lake	OEG	72,400	7,000–25,000	Above Goal	Weir Count
Chilkoot Lake	SEG	84,600	38,000–86,000		Weir Count
Chilkat Lake	BEG	108,000	70,000–150,000		Weir/Sonar Count
Situk River	BEG	26,700	30,000–70,000	Below Goal	Weir Count
Klukshu River	BEG	7,000	7,500–15,000	Below Goal	Weir Count
East Alsek River	BEG	10,500	9,000–24,000		Peak Aerial Survey

[1] Goal types include optimal (OEG), sustainable (SEG), and biological (BEG) escapement goals.

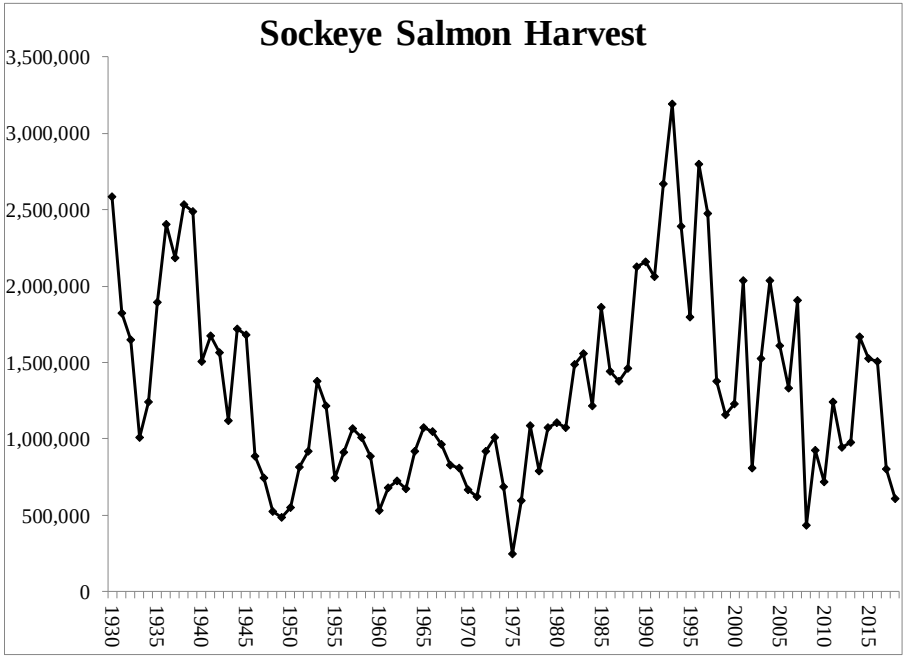
McDonald Lake Escapement

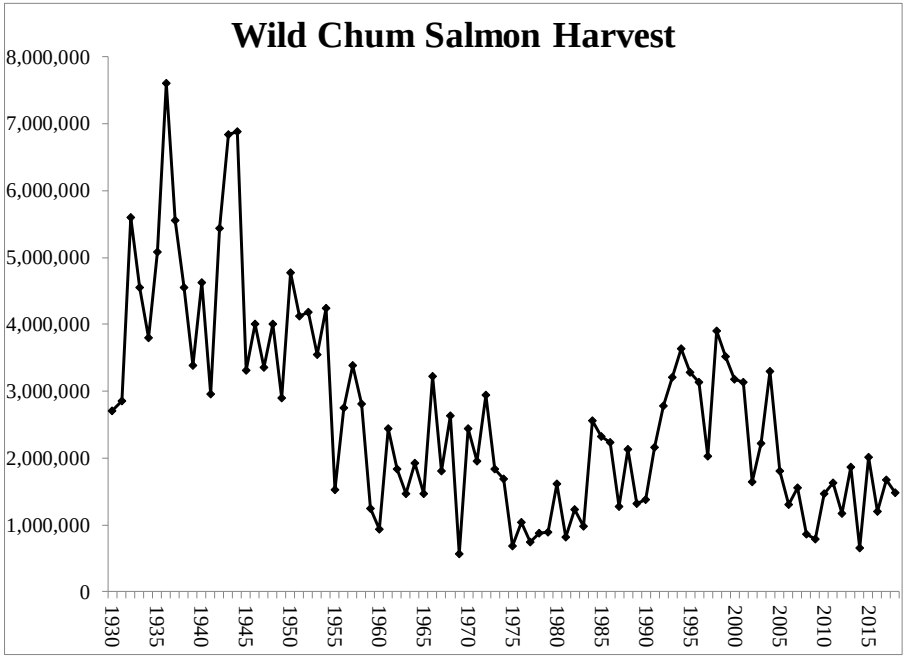


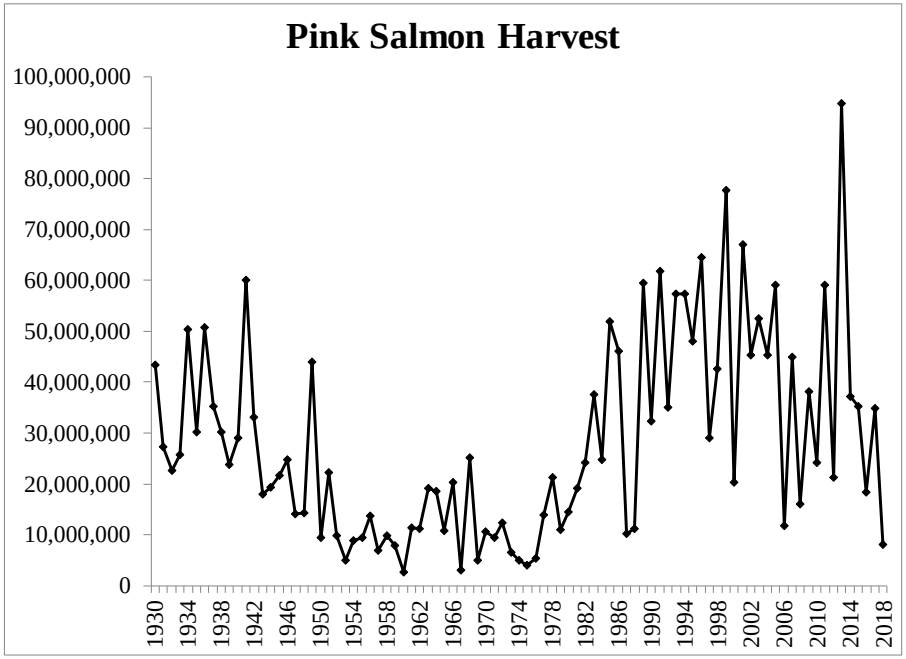
Commercial Harvest of McDonald Lake Sockeye Salmon, 2014 to 2018

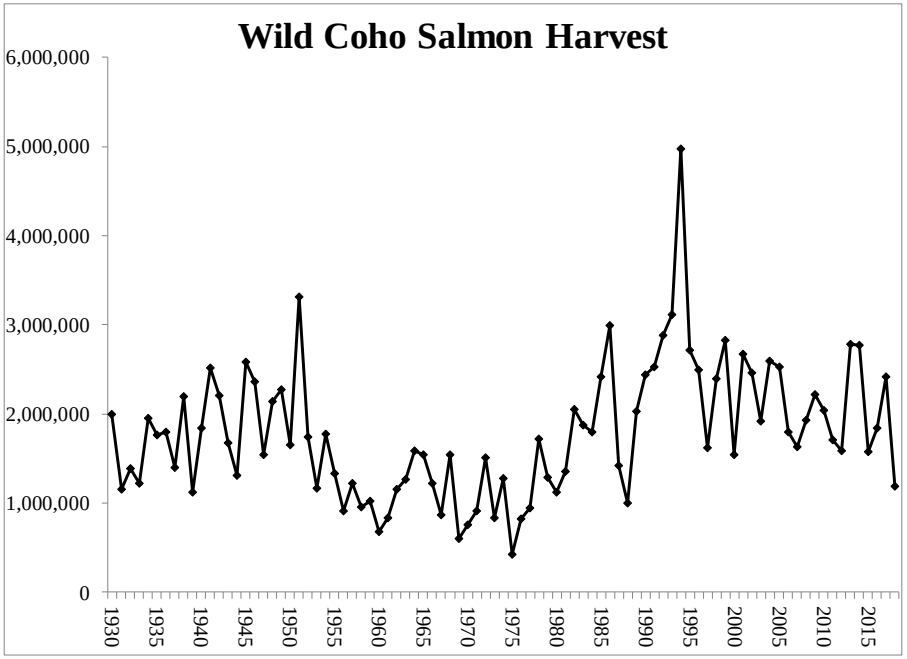
	2014	2015	2016	2017	2018 (Preliminary)
Commercial Harvest	**46,000**	**65,600**	**26,600**	**8,500**	**3,000–5,900[a]**
Escapement	**43,400**	**70,200**	**15,600**	**24,000**	**11,000**
Harvest Rate	**51%**	**48%**	**63%**	**26%**	**21%–35%[a]**

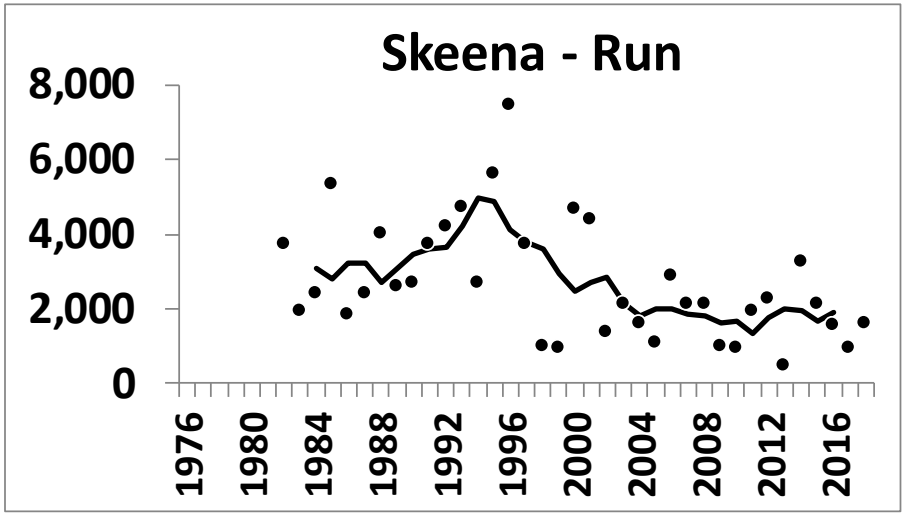
[a]District 6 and 8 genetics results not yet available so used highest and lowest prior McDonald Lake proportion estimates to estimate potential range for total harvest in all fisheries

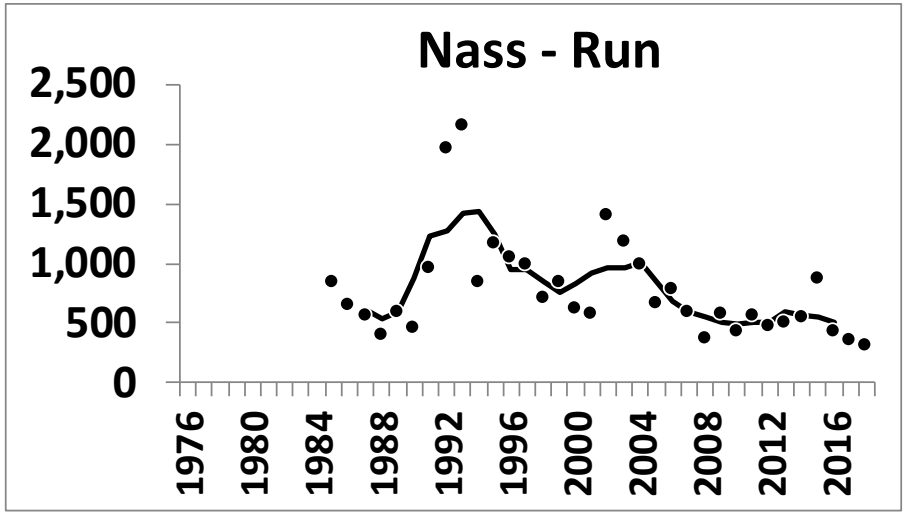

Sockeye Salmon Harvest
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015

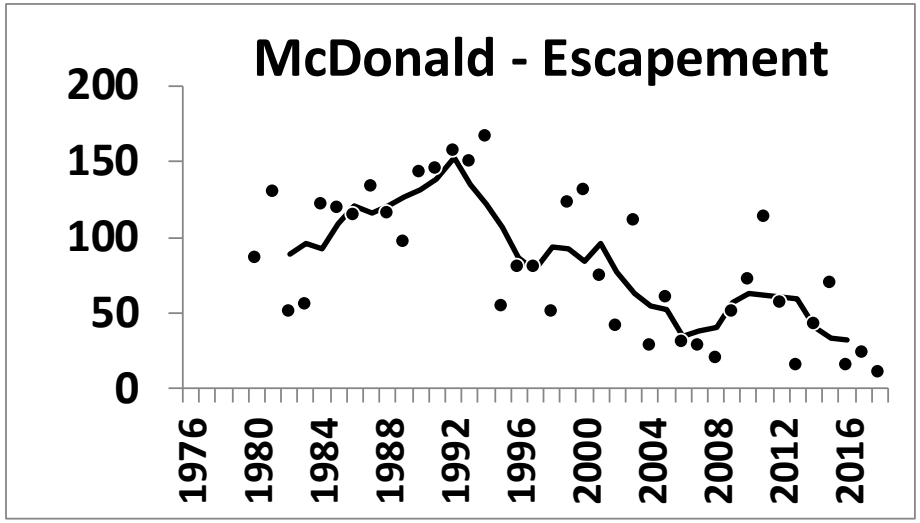

Wild Chum Salmon Harvest
8,000,000
7,000,000
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015

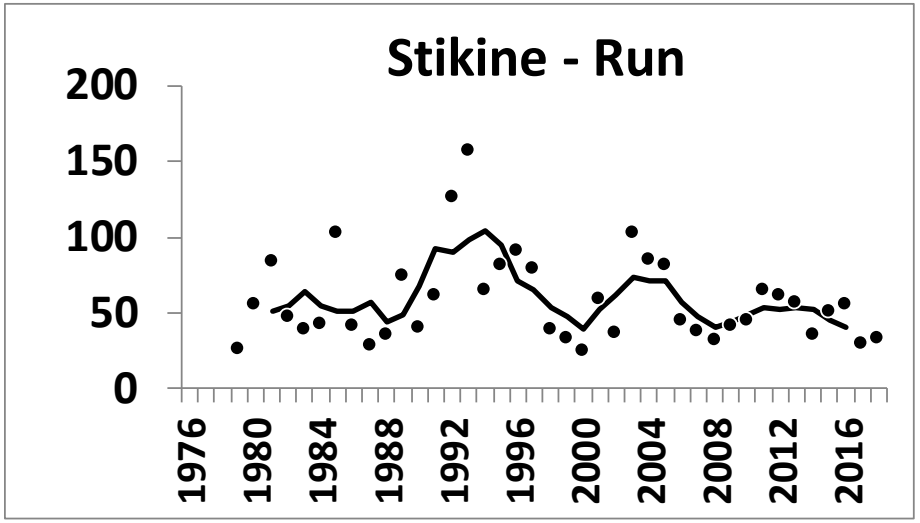

Pink Salmon Harvest
100,000,000
90,000,000
80,000,000
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
0
1930
1934
1938
1942
1946
1950
1954
1958
1962
1966
1970
1974
1978
1982
1986
1990
1994
1998
2002
2006
2010
2014
2018


Wild Coho Salmon Harvest
6,000,000
5,000,000
4,000,000
3,000,000
2,000,000
1,000,000
0
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015

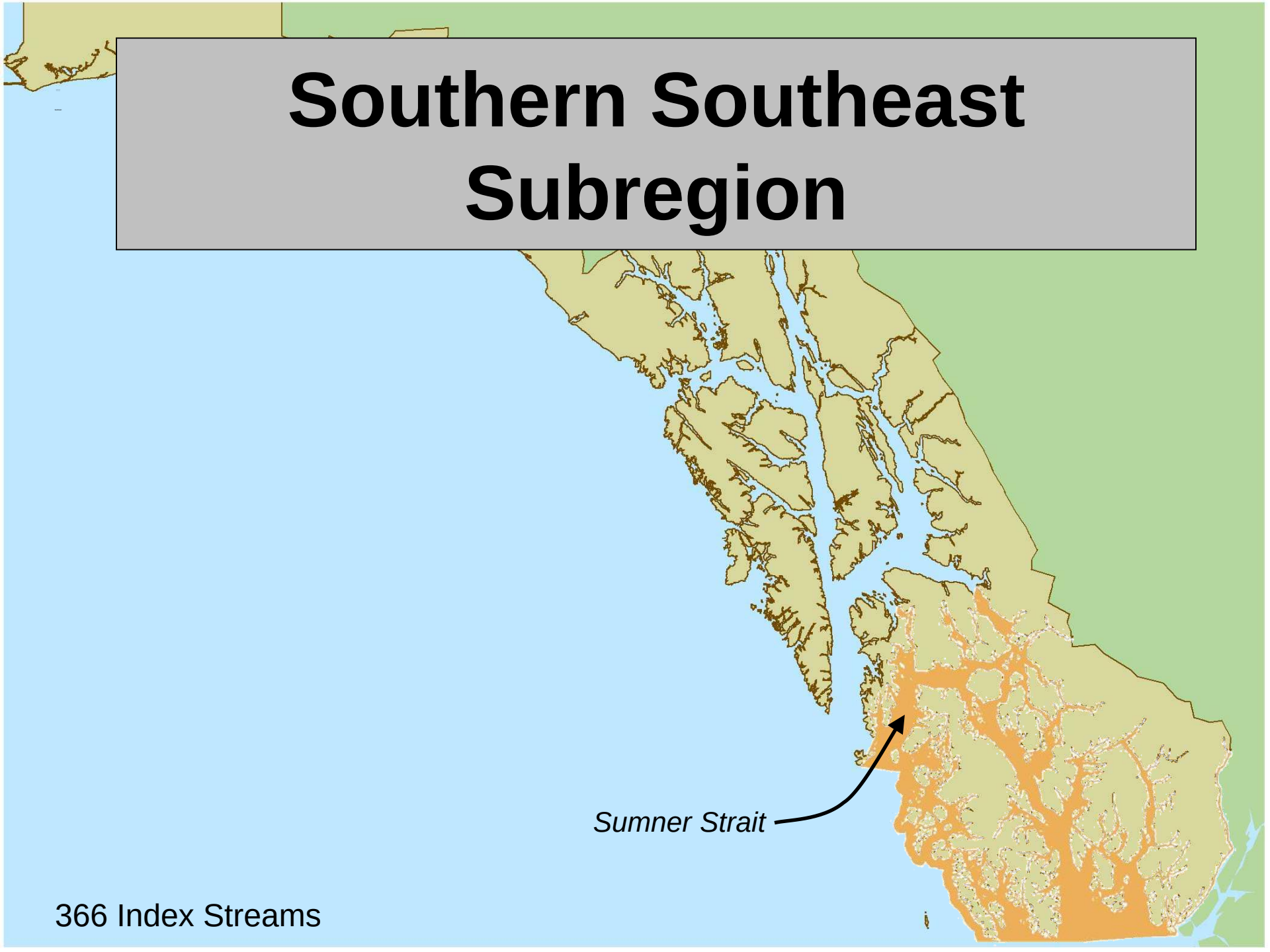

Skeena - Run
8,000
6,000
4,000
2,000
0
1976
1980
1984
1988
1992
1996
2000
2004
2008
2012
2016


Nass - Run
2,500
2,000
1,500
1,000
500
0
1976
1980
1984
1988
1992
1996
2000
2004
2008
2012
2016


McDonald - Escapement
200
150
100
50
0
1976
1980
1984
1988
1992
1996
2000
2004
2008
2012
2016

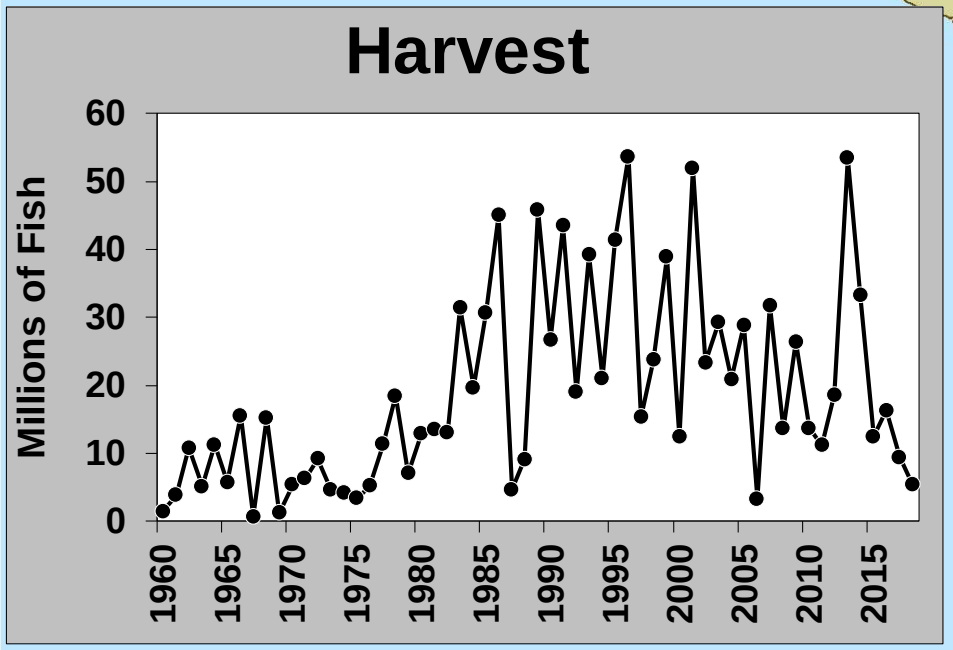

Stikine - Run
200
150
100
50
0
1976
1980
1984
1988
1992
1996
2000
2004
2008
2012
2016

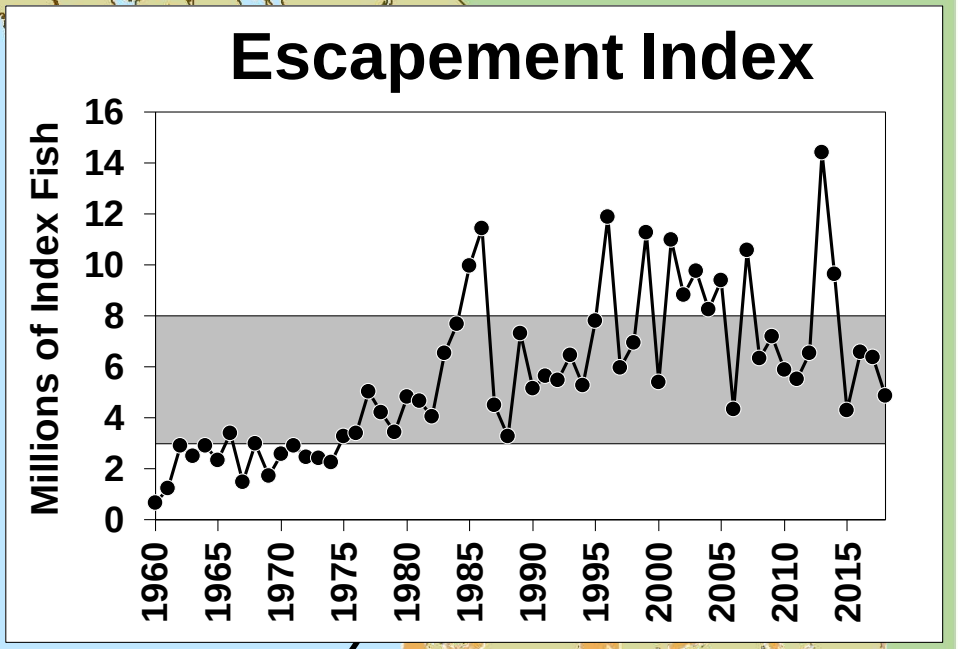
Southern Southeast Subregion



366 Index Streams

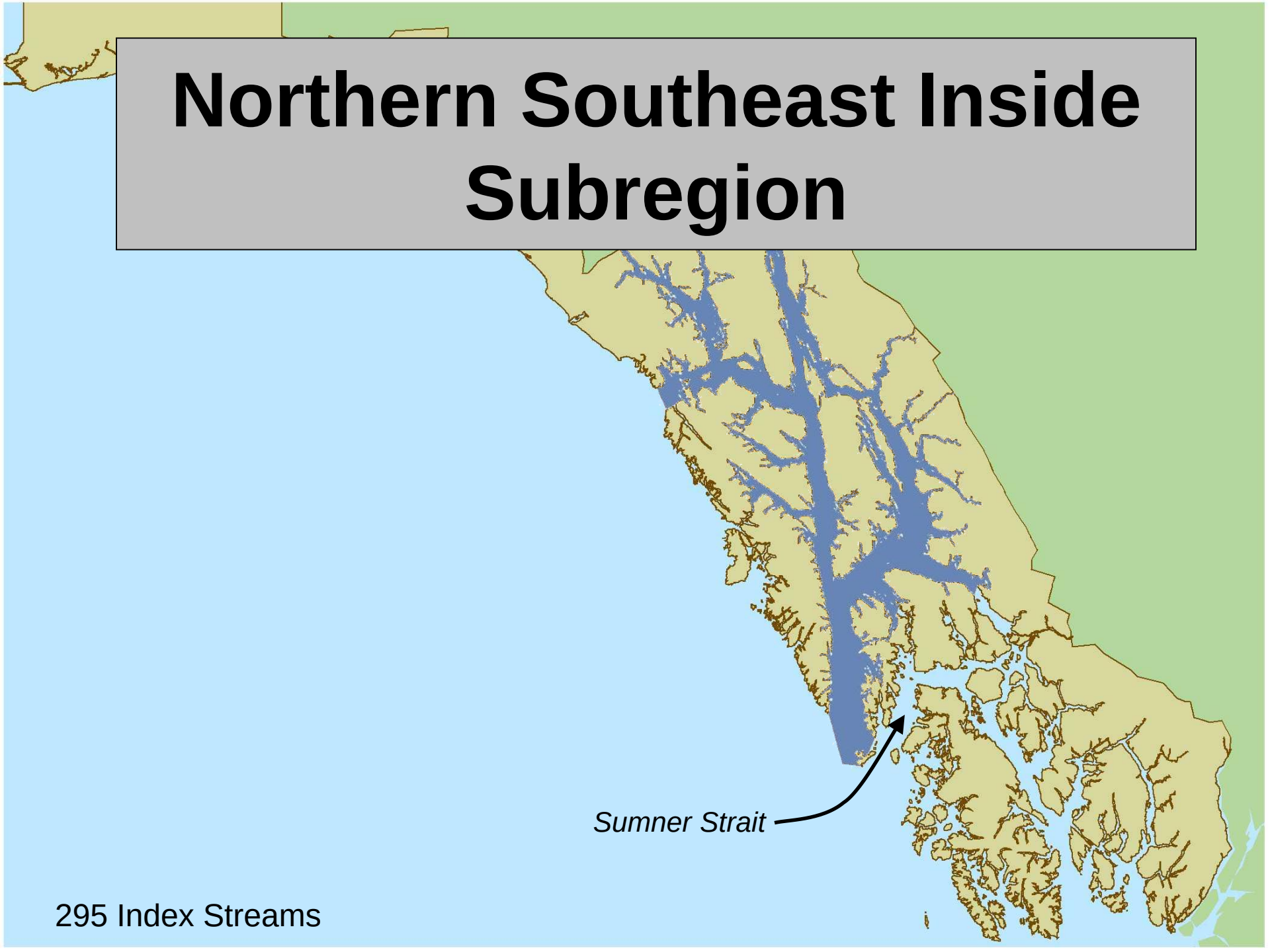
Southern Southeast Subregion





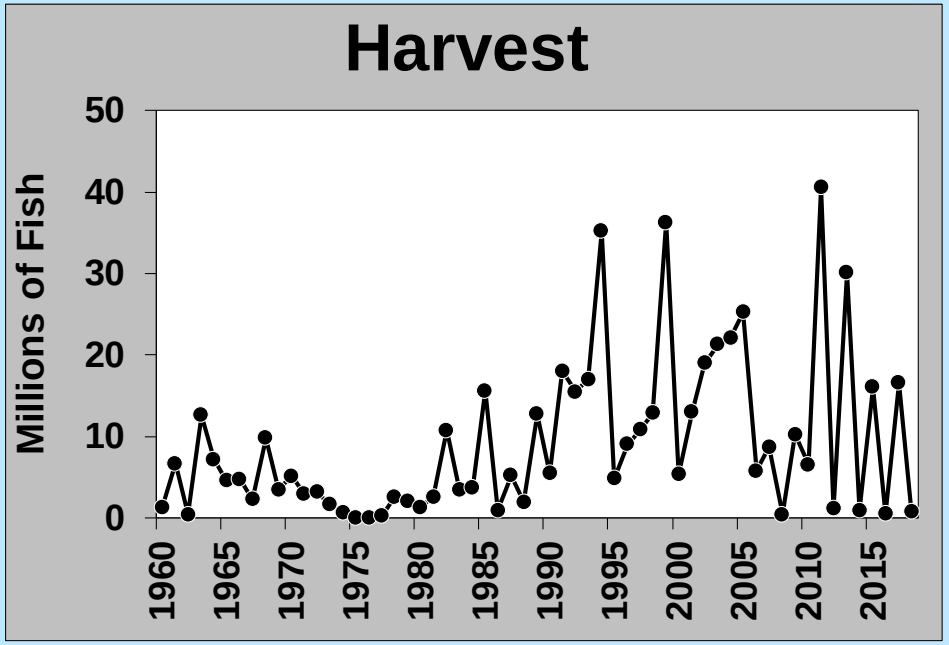
Sumner Strait

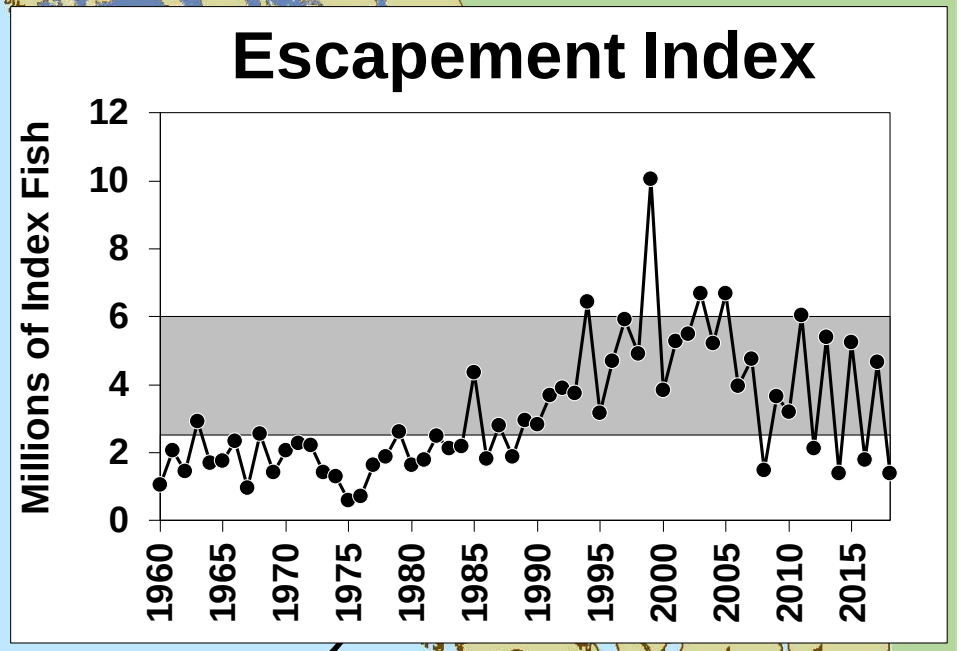
Northern Southeast Inside Subregion



295 Index Streams

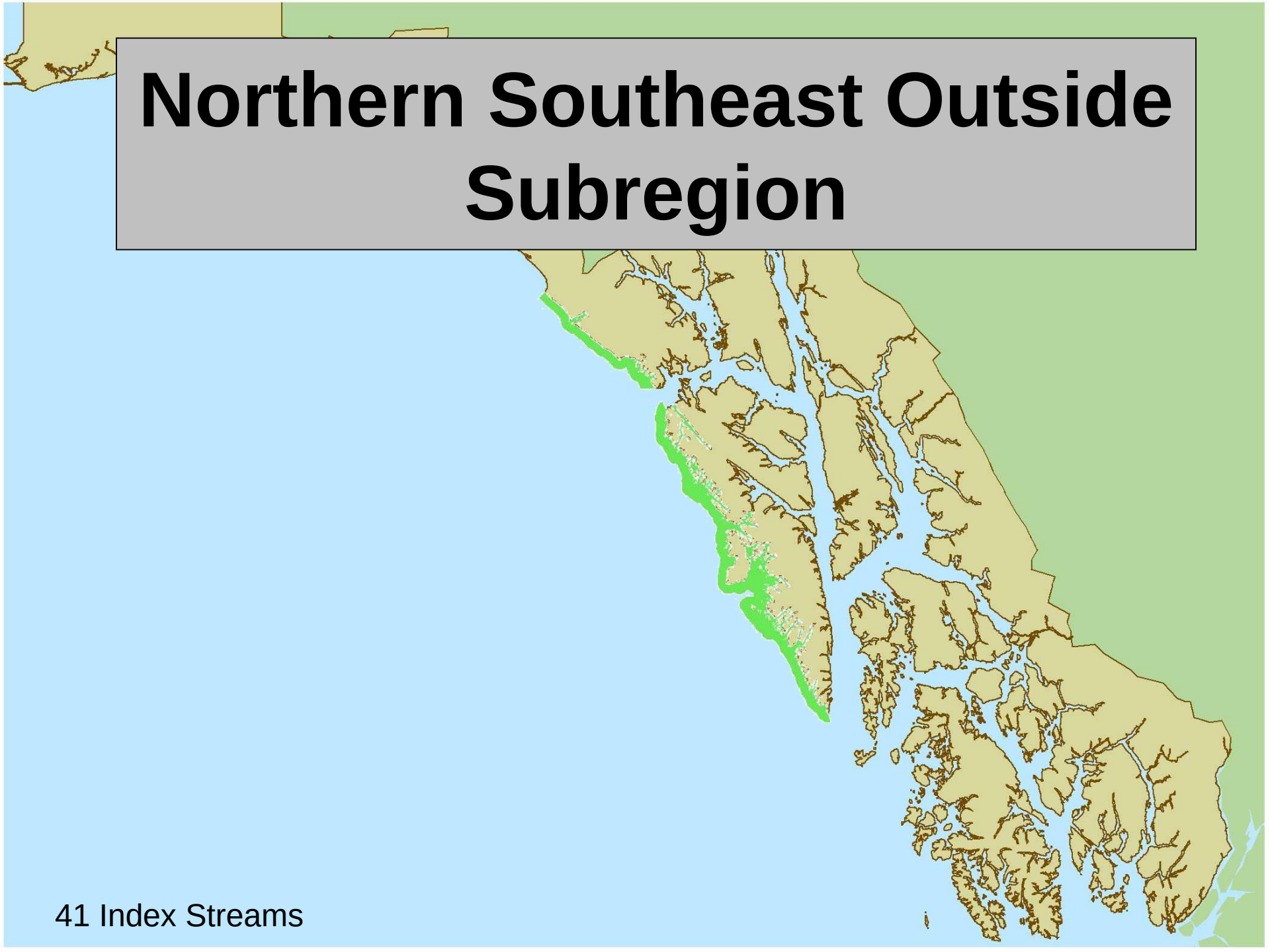
Northern Southeast Inside Subregion





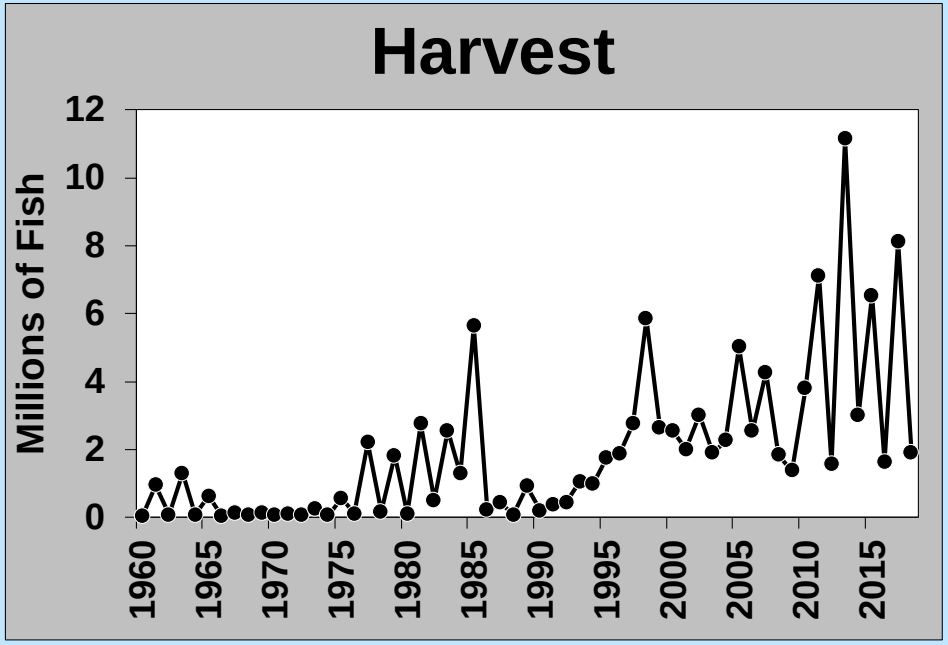
Sumner Strait

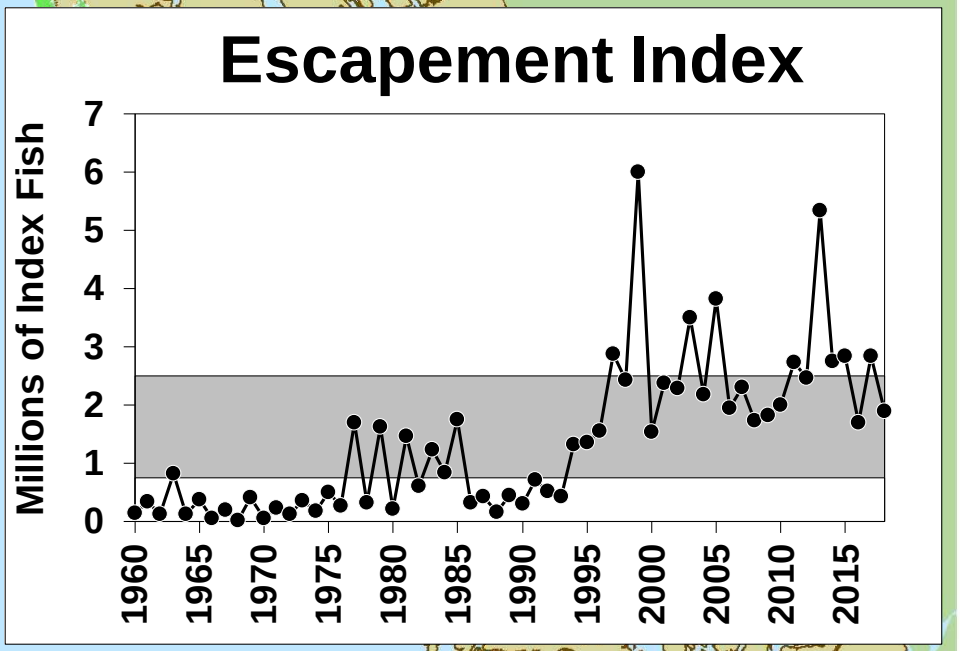
Northern Southeast Outside Subregion



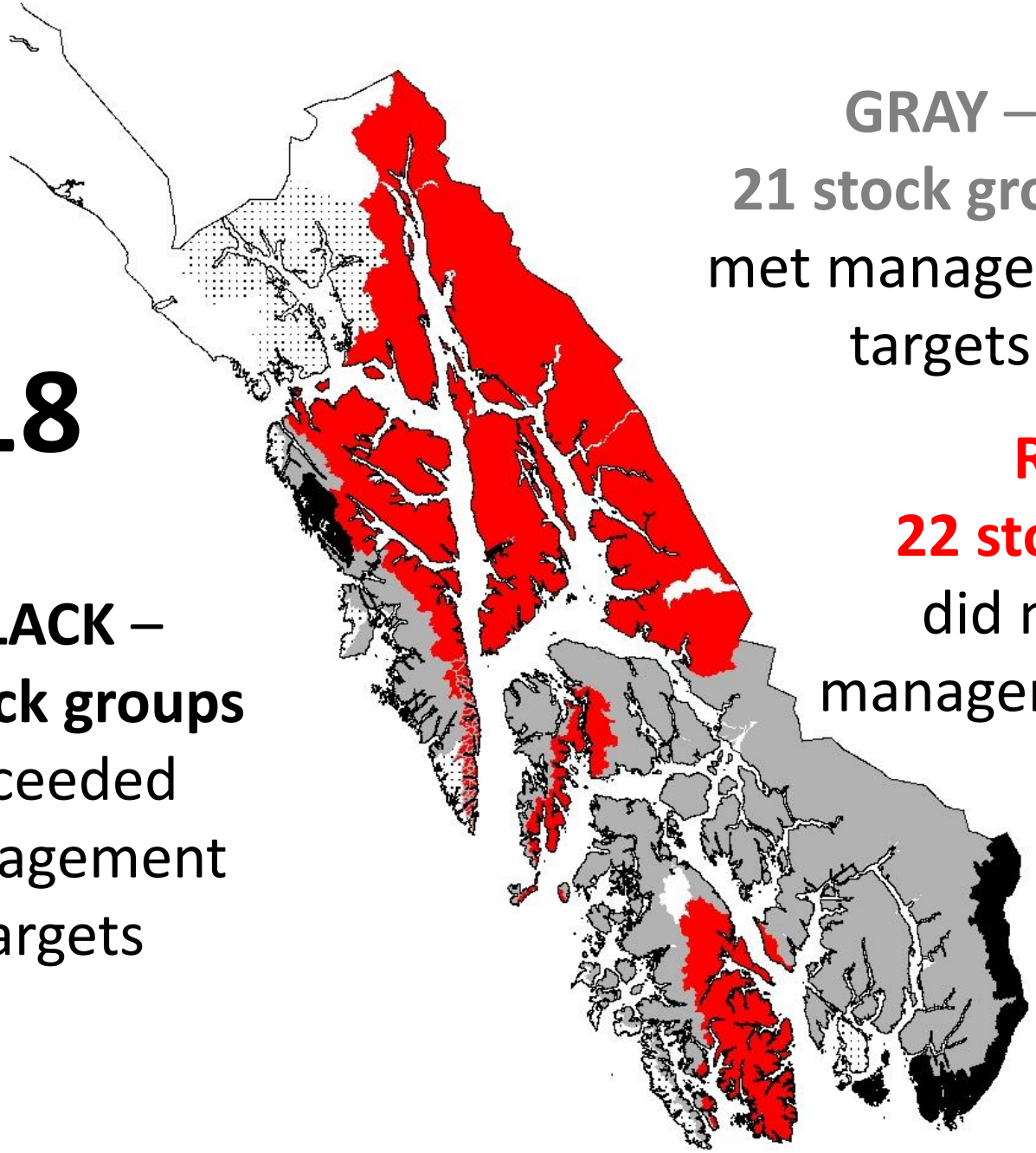
41 Index Streams

Northern Southeast Outside Subregion





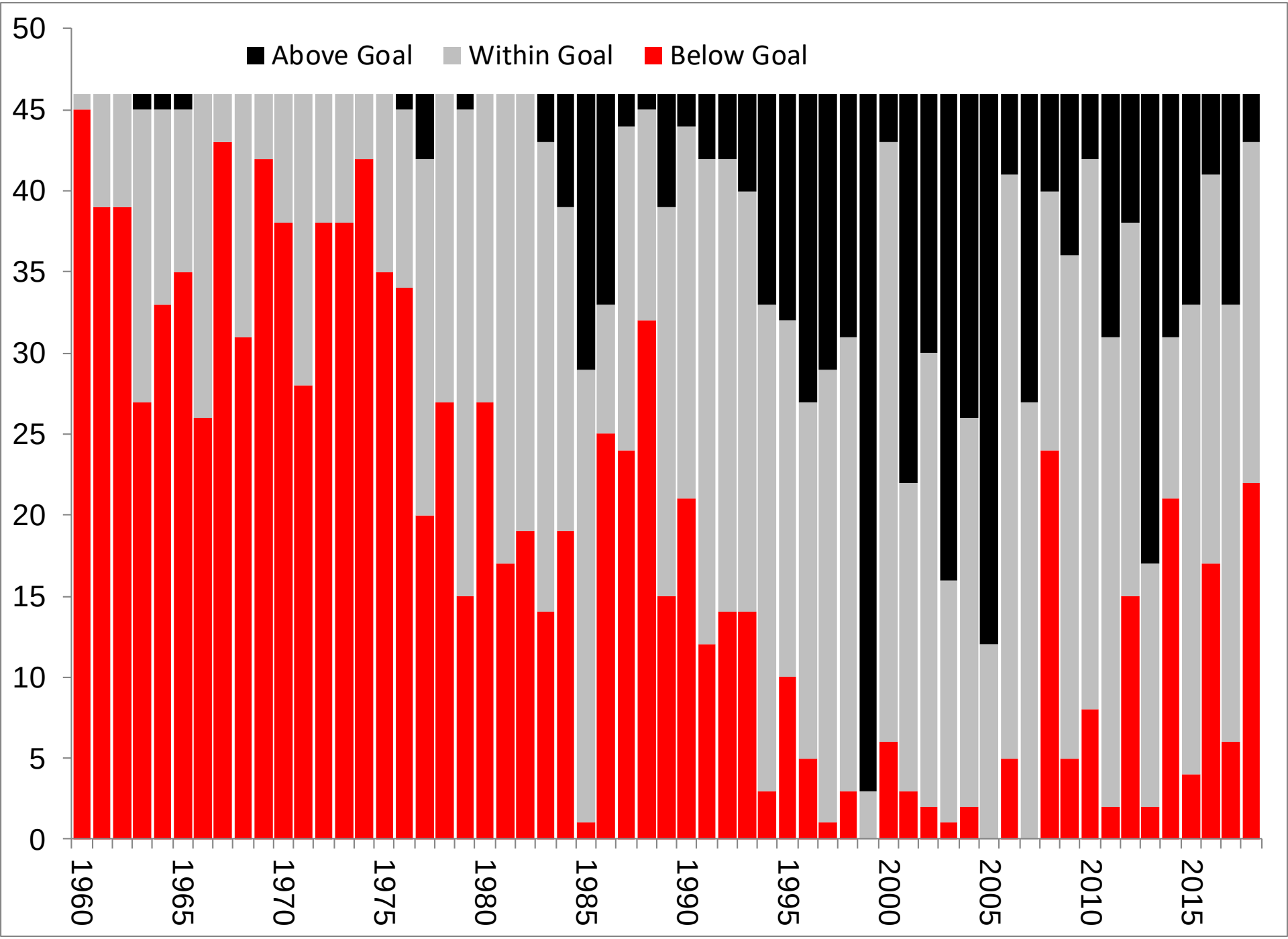
2018

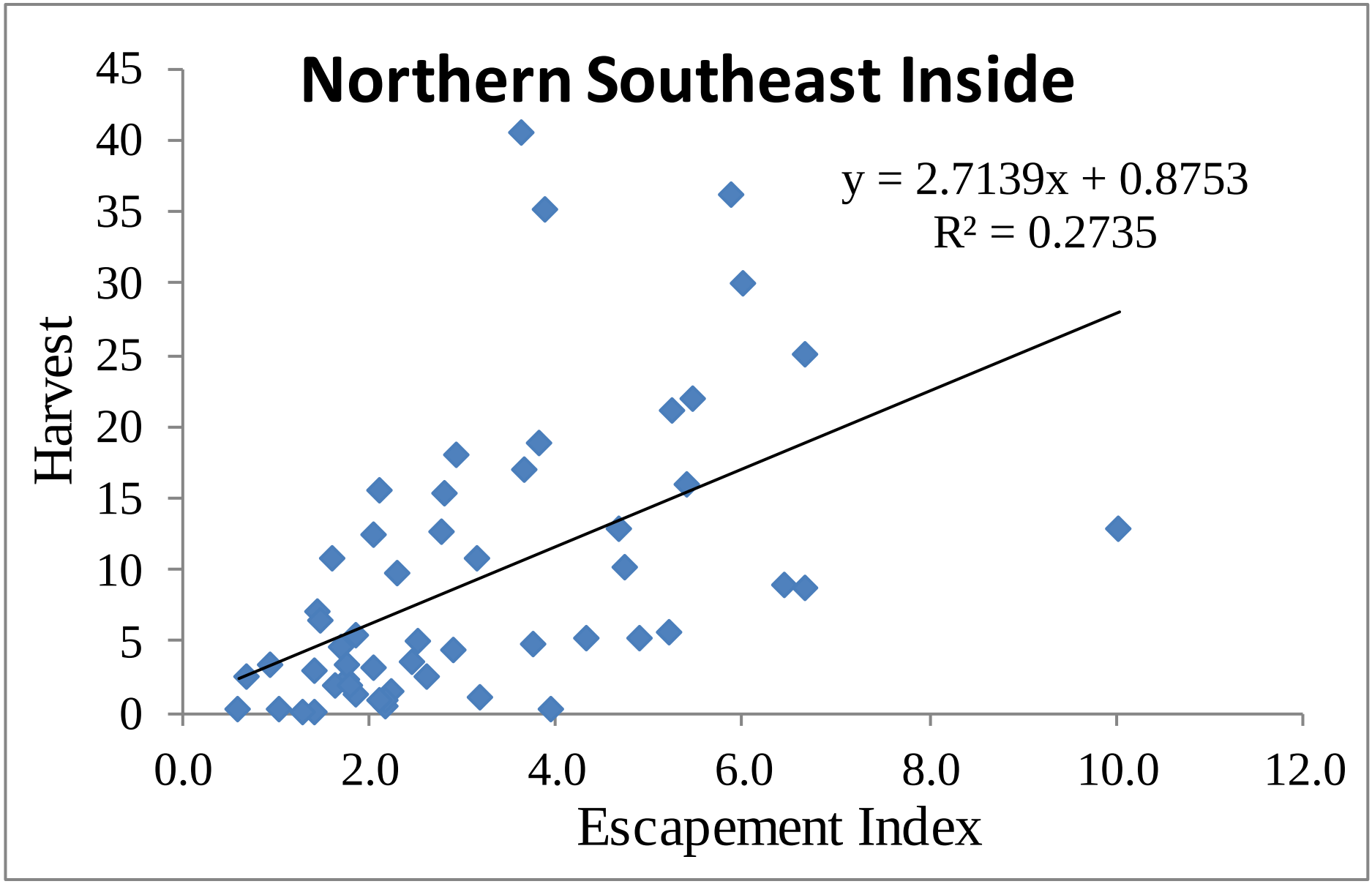


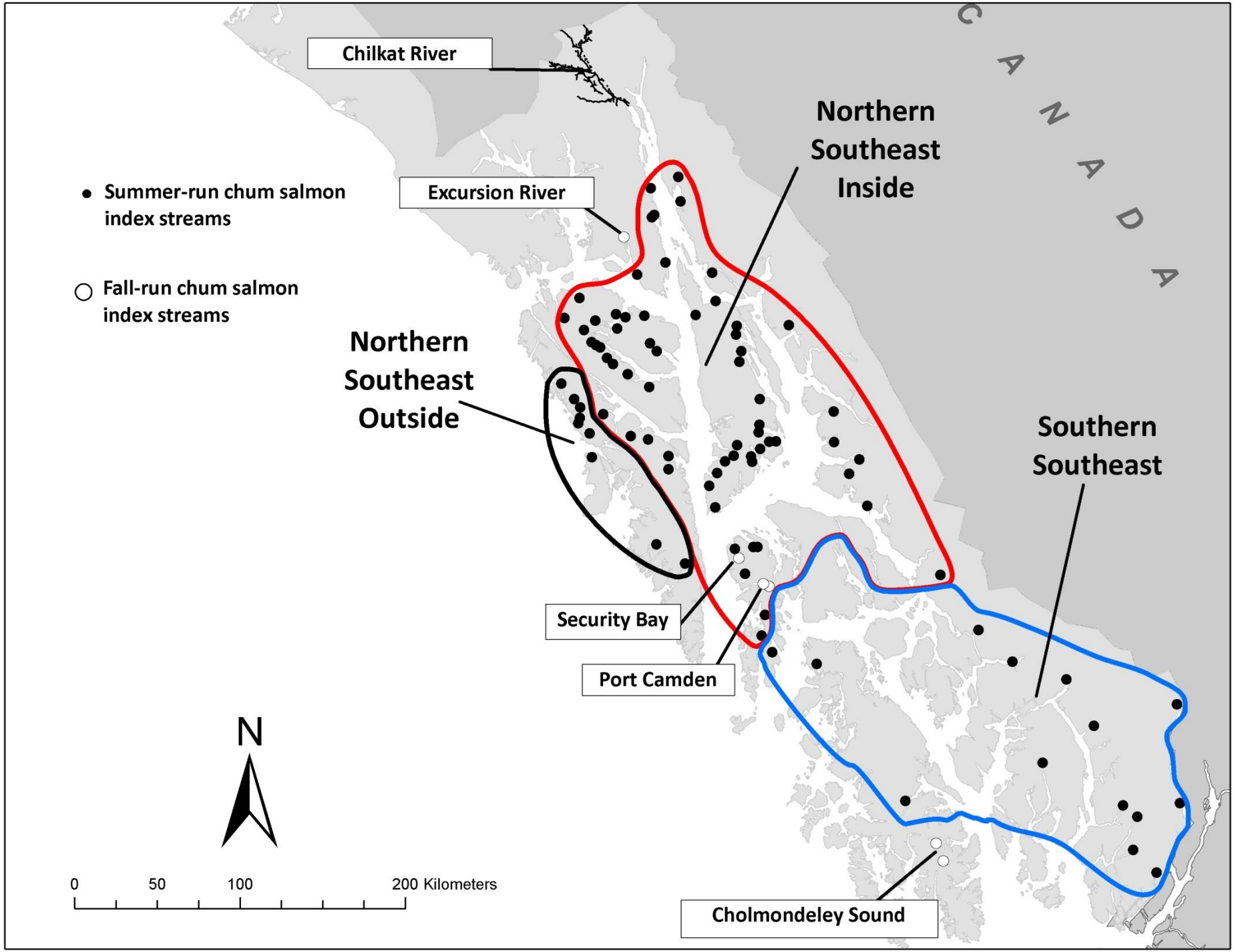
GRAY –
21 stock groups
met management targets

RED –
22 stock group
did not meet management targets

BLACK –
3 stock groups
exceeded management targets

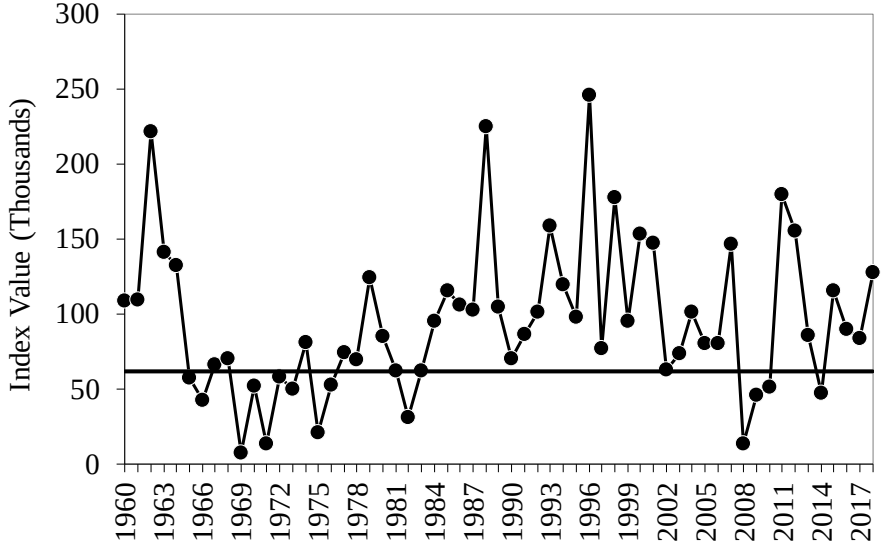

Above Goal
Within Goal
Below Goal
50
45
40
35
30
25
20
15
10
5
0
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015


Northern Southeast Inside
y = 2.7139x + 0.8753
R² = 0.2735
Harvest
45
40
35
30
25
20
15
10
5
0
0.0
2.0
4.0
6.0
8.0
10.0
12.0
Escapement Index

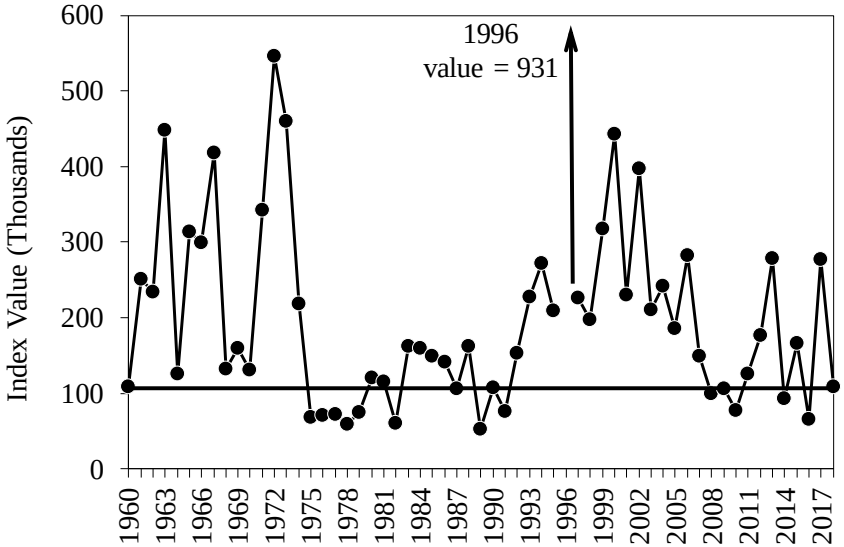

Chilkat River
Excursion River
Summer-run chum salmon index streams
Fall-run chum salmon index streams
Northern Southeast Inside
Northern Southeast Outside
Southern Southeast
Security Bay
Port Camden
Cholmondeley Sound
CANADA
N
0
50
100
200 Kilometers

Summer Chum Salmon

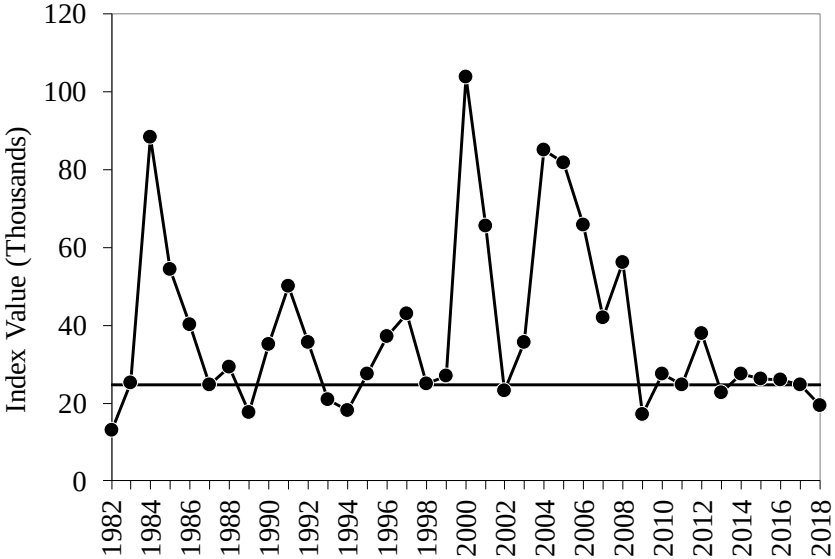
Southern Southeast



Northern Southeast Inside

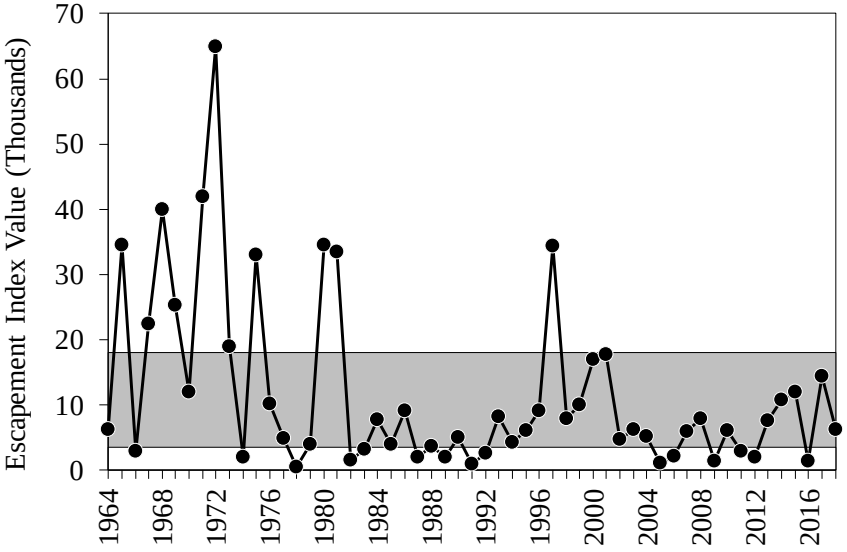


Northern Southeast Outside

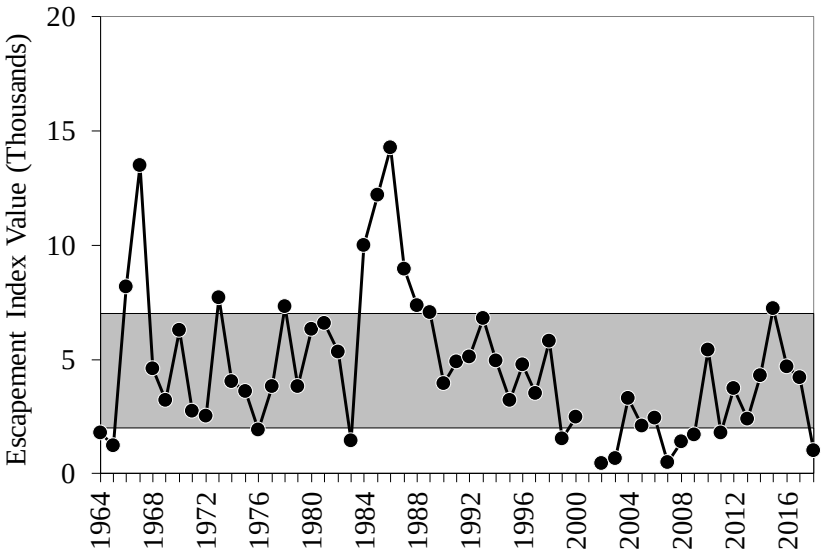


Fall Chum Salmon

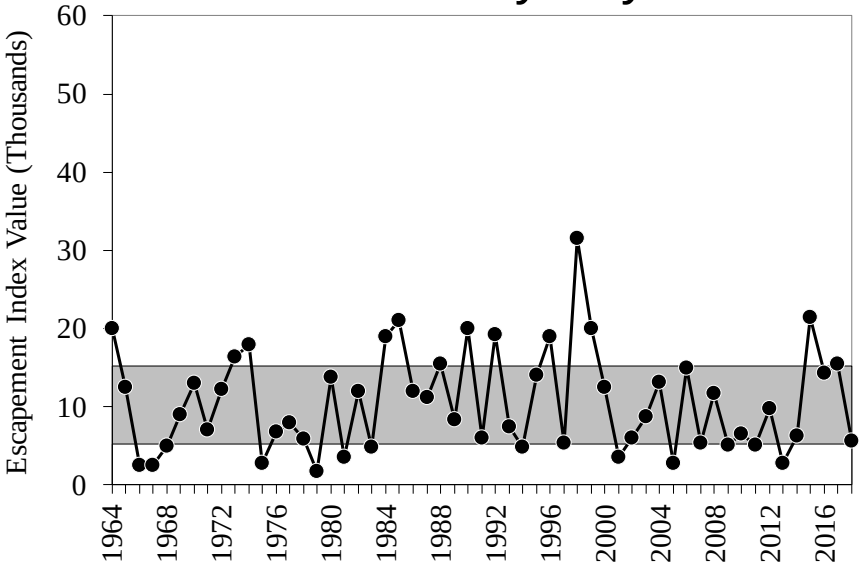
Excursion River



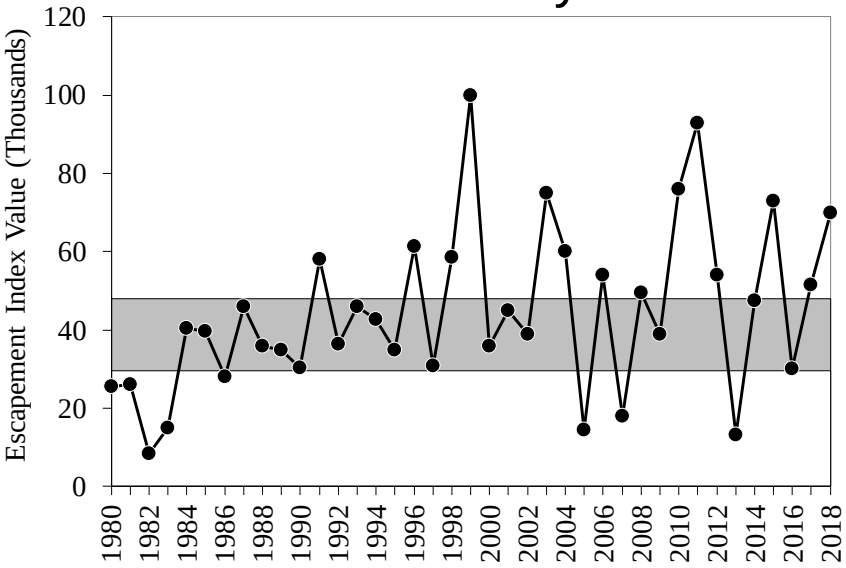
Port Camden



Security Bay



Cholmondeley Sound



Coho Salmon

System	Hugh Smith Lake	Taku River	Auke Creek	Montana Creek	Peterson Creek	Ketchikan Survey Index	Sitka Survey Index
Goal Range	500–1,600	50,000–90,000	200–500	400–1,200	100–250	4,250–8,500	400–800
Goal Type[1]	BEG	BEG	BEG	SEG	SEG	BEG	BEG
2018	619	50,935	146	1,160	110	13,764	1,502

[1.] Goal types include optimal (OEG), sustainable (SEG), and biological (BEG) escapement goals.

System	Berners River	Chilkat River	Tawah Creek	Situk River	Tsiu/Tsivat rivers
Goal Range	3,600–8,100	30,000–70,000	1,400–4,200	3,300–9,800	10,000–29,000
Goal Type[1]	BEG	BEG	SEG	BEG	BEG
2018	3,550	66,085	2,211	6,198	48,600

[1.] Goal types include optimal (OEG), sustainable (SEG), and biological (BEG) escapement goals.

Chinook Salmon

System	Escapement Goal[a]	Escapement 2013	2014	2015	2016	2017	2018
Blossom River	500–1,400	987	840	642	522	341	1,087[b]
Keta River	550–1,300	1,484	1,321	915	1,342	903	1,662[b]
Unuk River	1,800–3,800	1,135	1,691	2,623	1,463	1,203	1,971[b]
Chickamin River	2,150–4,300	2,223	3,097	2,760	964	722	2,052[b]
Andrew Creek	650–1,500	920	1,261	796	402	349	482[b]
Stikine River	14,000–28,000	16,783[b]	24,366[b]	21,597[b]	10,554[b]	7,206[b]	6,771[b]
King Salmon River	120–240	94	68	50	149	85	30[b]
Taku River	19,000–36,000	18,002[b]	23,532[b]	28,827[b]	12,381[b]	8,214[b]	7,271[b]
Chilkat River	1,750–3,500	1,719	1,529[b]	2,452[b]	1,380[b]	1,173[b]	873[b]
Alsek River	3,500–5,300	4,992	3,357	5,697[b]	2,514	1,762[b]	4,312[b]
Situk River	450–1,050	912	475	174	329	1,187	420

Note: Gray cells indicate lower bound of the escapement goal not met.

[a] Goals and escapement numbers for king salmon are for large fish (≥660 mm mid eye to fork length, or fish age 1.3 and older), except Alsek and Klukshu goals which are germane to fish age 1.2 and older and can include fish <660 mm mid eye to fork length.

[b] Preliminary estimate pending publication of final report.

Question?