Oral Report to the Alaska Board of Fisheries 2008

Review of Salmon Escapement Goals in the Chignik Management Area

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Oral Report:
RC 2, Tab 2

Written Report:
RC 2, Tab 5

Presentation Objectives

- Introduce the policies behind the escapement goal review
- Describe the formation and purpose of the Chignik Management Area Escapement Goal Review Team
- Identify the current Chignik Area escapement goals
- List the methods used during the escapement goal review process
- Present the escapement goal recommendations

Photo by Philip Tschersich

Escapement Goal Review

This review was based on:

- Policy for the Management of Sustainable Salmon Fisheries (SSFP; 5 AAC 39.222)
- Policy for Statewide Salmon Escapement Goals (5 AAC 39.223)

Two important terms defined in the SSFP are:

- ***biological escapement goal* (BEG)**
- ***sustainable escapement goal* (SEG)**

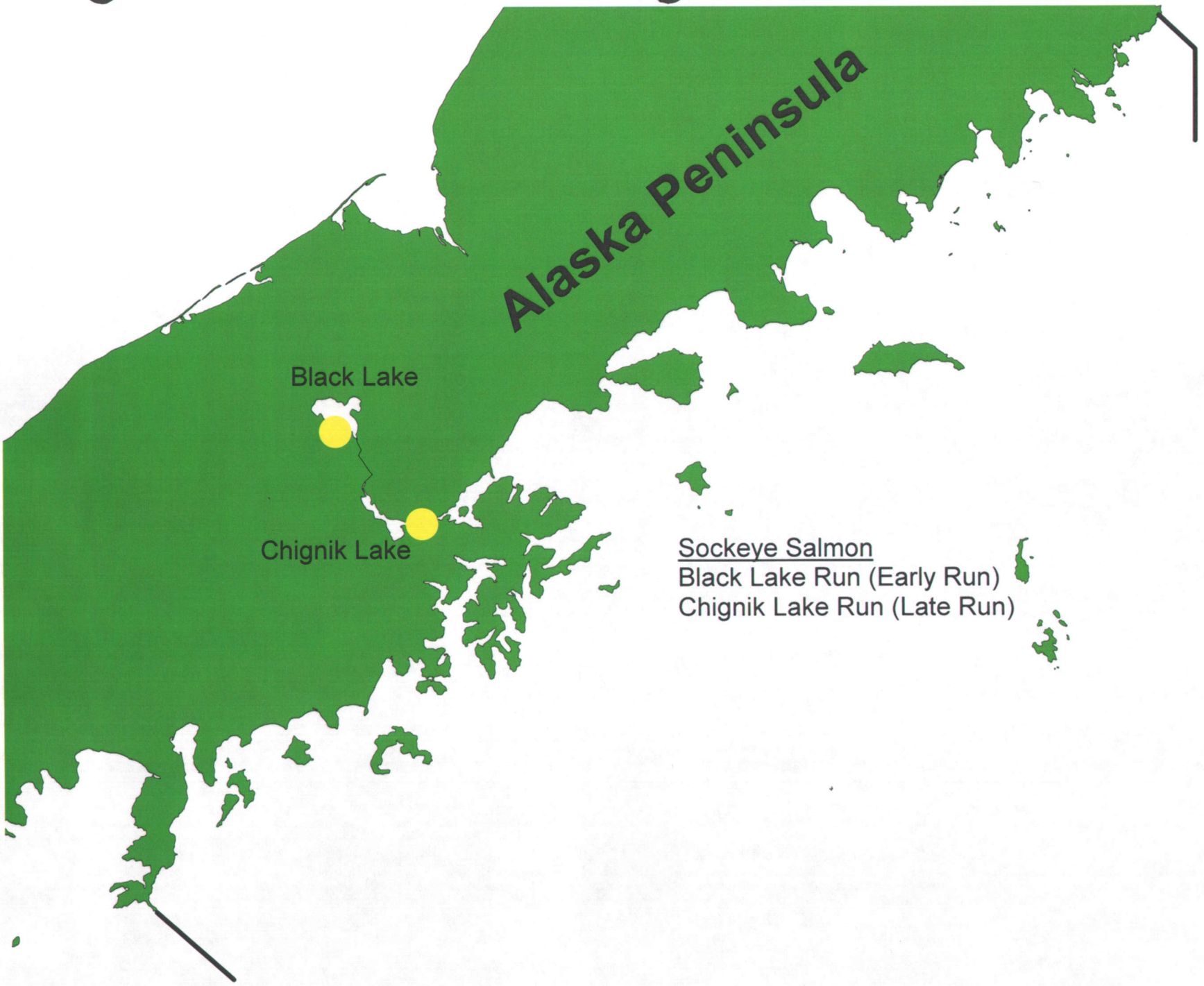
Photo by Philip Tschersich

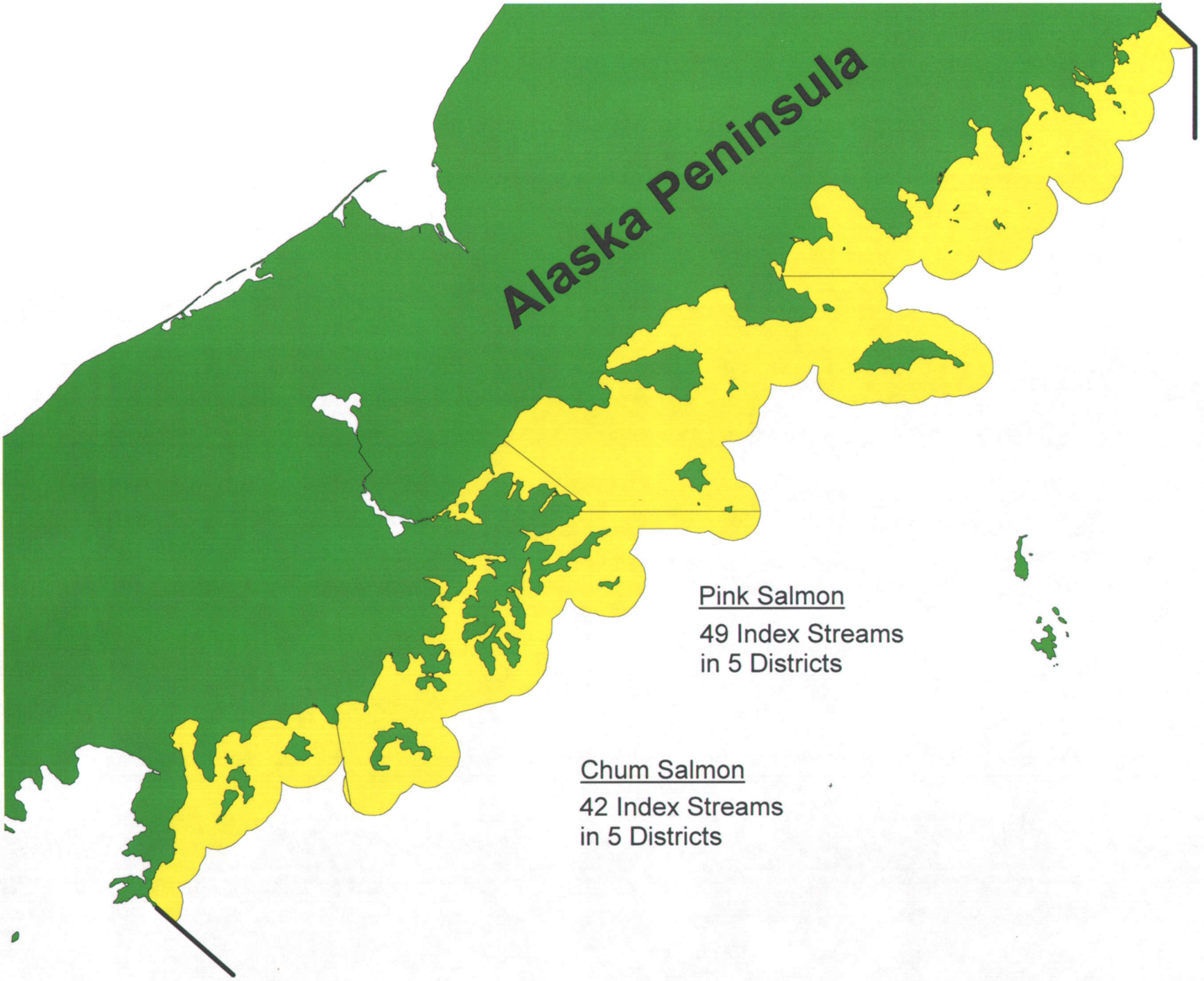
Chignik Management Area Escapement Goal Review Team

- Determine goal type: BEG or SEG
- Determine appropriate methods
- Estimate goal

Alaska Peninsula
Kodiak Management Area
Eastern District
Chignik Bay District
Central District
Western District
Perryville District
Alaska Peninsula Management Area
Chignik Management Area
N
W
E
S
0
25
50
miles

Alaska Peninsula
Chignik River
Chinook Salmon
Chignik River Run


Alaska Peninsula
Black Lake
Chignik Lake
Sockeye Salmon
Black Lake Run (Early Run)
Chignik Lake Run (Late Run)


Alaska Peninsula
Pink Salmon
49 Index Streams
in 5 Districts
Chum Salmon
42 Index Streams
in 5 Districts

Methods

Chinook Salmon Escapement Goal

- Not reviewed

Sockeye Salmon Escapement Goals

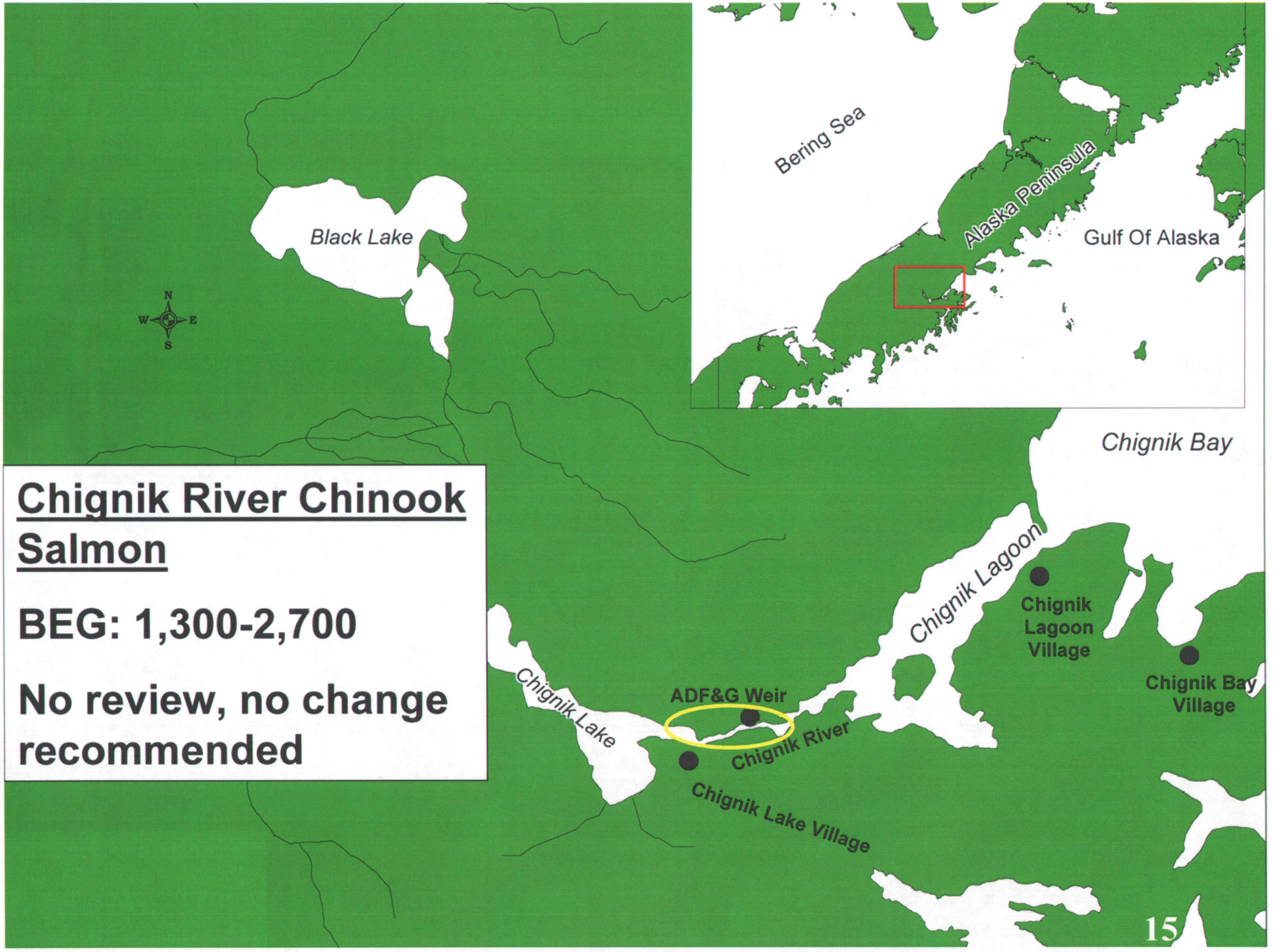
- Spawner-recruit analysis (BEG)
- Percentile Approach (SEG)
- Zooplankton Models (SEG)
- Euphotic Volume Model (SEG)

Pink Salmon Escapement Goals

- Yield Analysis (SEG)

Chum Salmon Escapement Goals

- Risk analysis (SEG)



Chignik River Chinook Salmon

BEG: 1,300-2,700

No review, no change recommended

Sockeye Salmon

Black Lake: SEG: 350,000 - 400,000

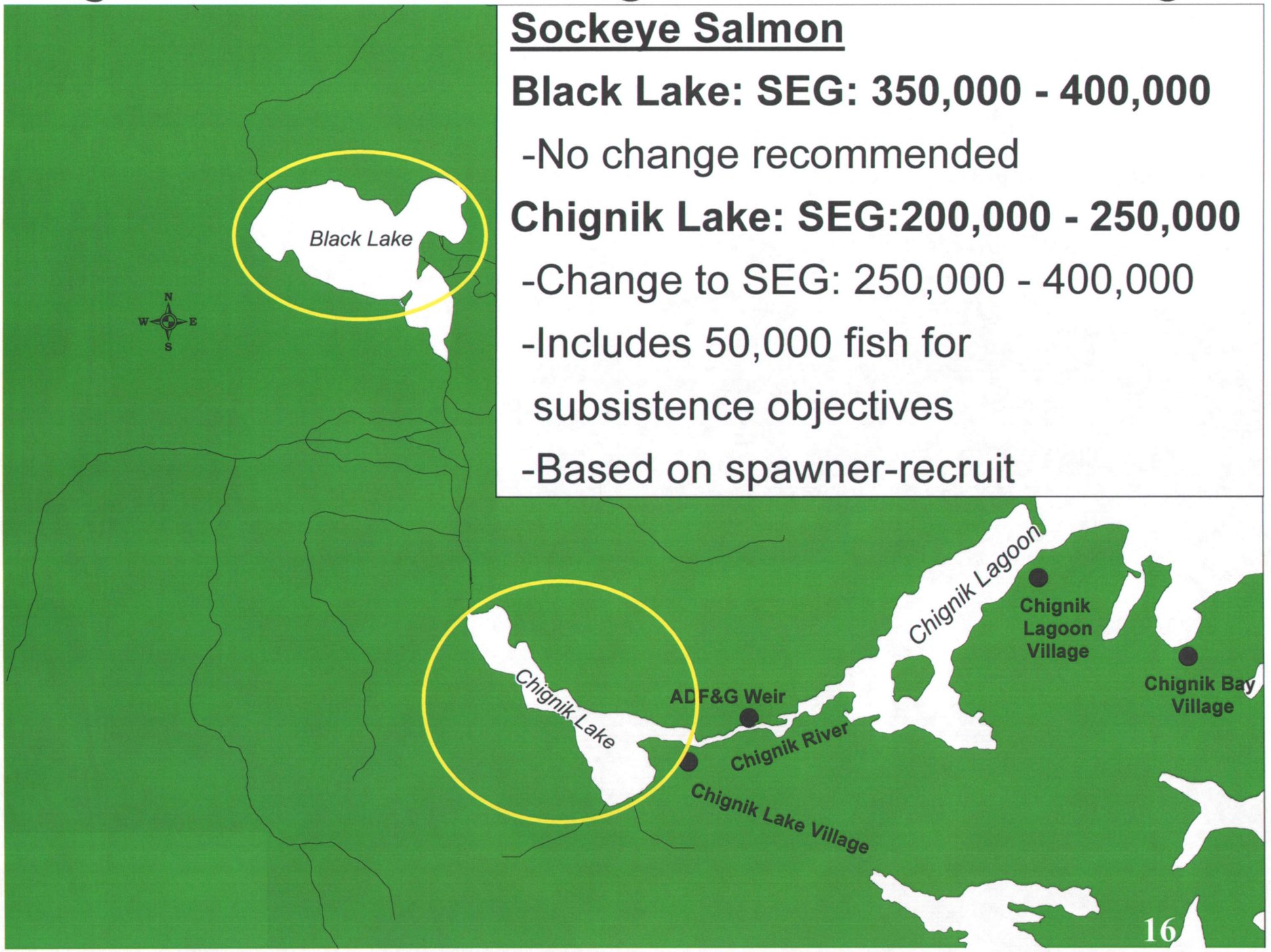
-No change recommended

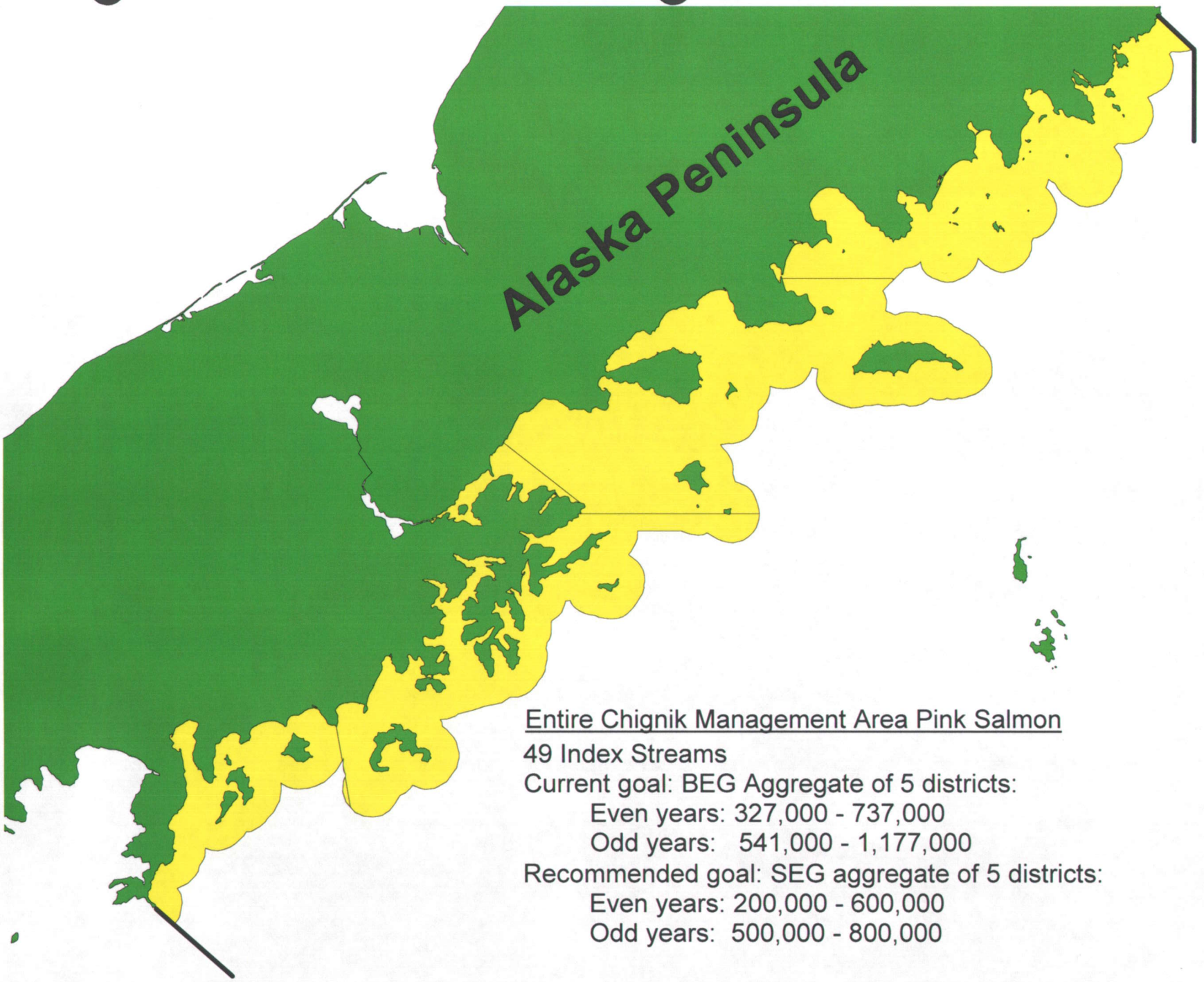
Chignik Lake: SEG:200,000 - 250,000

-Change to SEG: 250,000 - 400,000

-Includes 50,000 fish for subsistence objectives

-Based on spawner-recruit





Entire Chignik Management Area Pink Salmon

49 Index Streams

Current goal: BEG Aggregate of 5 districts:

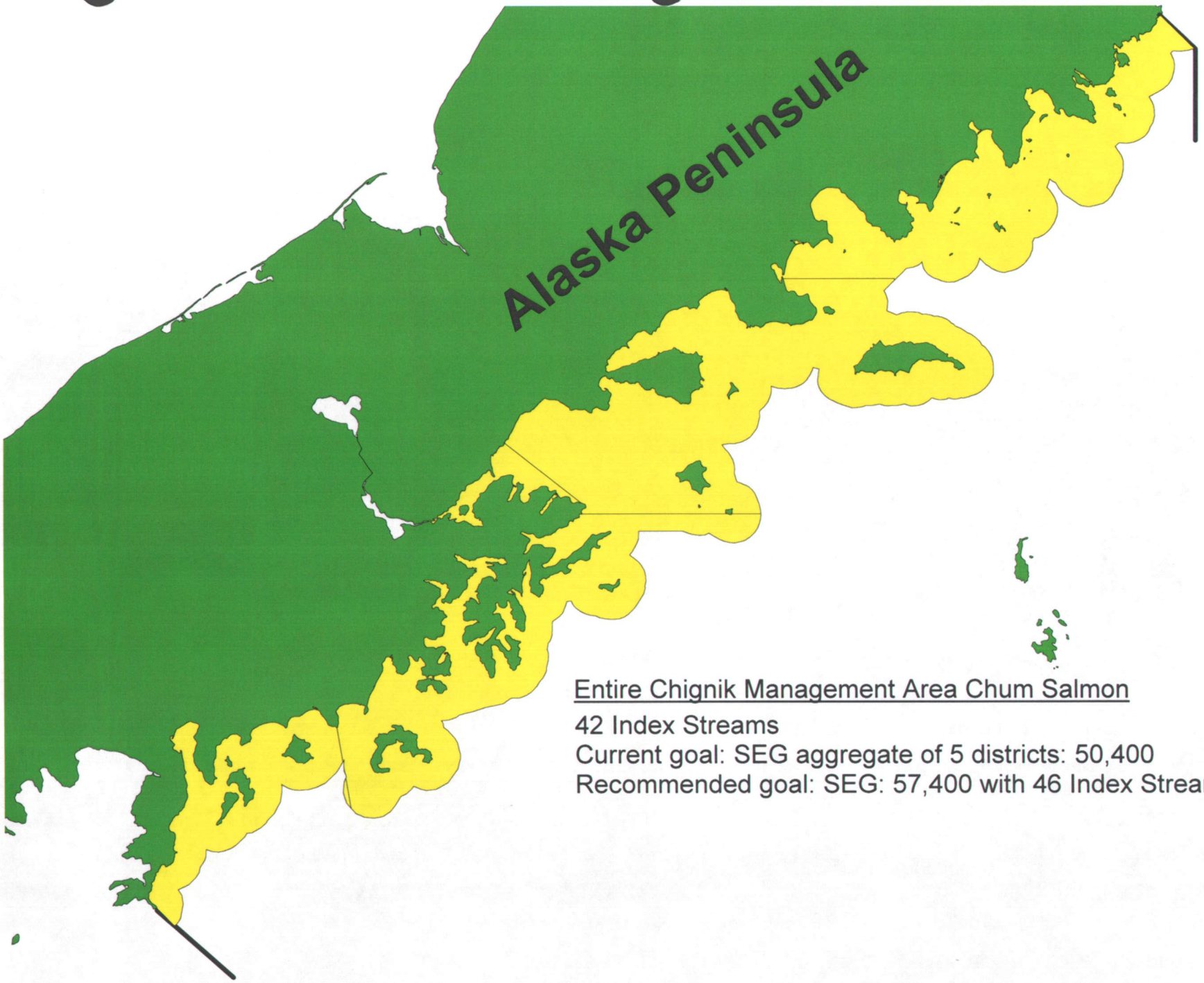
Even years: 327,000 - 737,000

Odd years: 541,000 - 1,177,000

Recommended goal: SEG aggregate of 5 districts:

Even years: 200,000 - 600,000

Odd years: 500,000 - 800,000



Entire Chignik Management Area Chum Salmon

42 Index Streams
Current goal: SEG aggregate of 5 districts: 50,400
Recommended goal: SEG: 57,400 with 46 Index Streams

Review of the 6 Existing Salmon Escapement Goals in the Chignik Management Area

Recommendations:

- Chinook salmon BEG: No change
- Sockeye salmon SEGs: change one, leave one unchanged
- Pink salmon BEGs: Change to two aggregate SEGs
- Chum salmon SEG: Change one aggregate SEG