

YAKUTAT SET GILLNET FISHERY

2004 MANAGEMENT PLAN



by

Gordon F. Woods

REGIONAL INFORMATION REPORT NO.¹ 1J04-19

Alaska Department of Fish and Game
Division of Commercial Fisheries
Southeast Region
Juneau, Alaska

April 2004

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INTRODUCTION

The Yakutat area encompasses the waters of Alaska between Cape Suckling and Cape Fairweather. The area is divided into two fishing districts: the Yakataga District between Cape Suckling and Icy Cape, and the Yakutat District between Icy Cape and Cape Fairweather. All five salmon species are harvested in the Yakutat area, with sockeye, coho, chinook, and pink salmon comprising the majority of the catch in that order of importance.

Set gillnet gear is the only net gear permitted in the Yakutat area. About 175 commercial setnet entry permits are renewed annually. Setnet permit holders in the Yakutat area do not have registered sites and may fish in any open fishing area. They may also move between fishing areas during the season as long as not more than one river is fished concurrently.

There are 25 unique setnet fisheries in the Yakutat area. Most of these fisheries target sockeye salmon from mid-June through July and coho salmon in August and September. The only targeted pink salmon fishery occurs in the southeast portion of Yakutat Bay on fish returning to Humpback Creek. Set gillnet fisheries in the Yakataga District primarily harvest coho salmon.

Yakutat Area set gillnet fisheries open by regulation on Monday of each week, with exact initial opening dates given for different fisheries, the first Monday in June for the Alsek River, the second Monday in June for Yakutat Bay, and so forth. The department has been requested to change the weekly opening date from Monday to Sunday to meet industry needs. The Yakutat Advisory Committee and the City and Borough of Yakutat have supported this change. The issues involve quality of the product and timeliness of product arrival on the market to insure fishermen get the best price for their product. As this date change is not a conservation issue and will not change management strategies, the department will open each fishery on Sunday in 2004 by Emergency Order. Instead of the first Monday in June (June 7), the Alsek River will open on the first Sunday in June (June 6), and each subsequent fishery opening will then open one day earlier than by regulation.

The department will continue to conduct a stock assessment project in many of the waters of the Yakutat Area over the course of the next two years. The Southeast Sustainable Salmon Fisheries Fund is funding this project, and the project will consist of both traditional and radio tagging, recovery, and tracking of sockeye and coho in the Lost, Ahrnklin, Dangerous, Italio, Akwe, and East Alsek/Doame systems. The goal of this project is to fill the current information gap regarding total escapement strength of sockeye and coho to the Yakutat Area. A separate coded wire tagging project will concentrate on Lost, Situk, and Ahrnklin Rivers coho in the spring of 2004.

Anticipated Salmon Return

No formal preseason forecast program exists for the Yakutat salmon runs. Preseason expectations are based on parent-year spawning escapements, commercial catch trends, local observations of

rearing conditions, and information on year-class strength. The 2004 Yakutat area salmon runs are expected to be average to above average for both sockeye and coho, and average for pink salmon. More detailed projections by drainage begin on page 5.

Fishery Management

Set gillnet fisheries in the Yakutat area are managed by adjusting fishing times and areas in response to inseason assessments of run strength. These actions are taken to provide adequate spawning escapements and to allow harvests of salmon that are surplus to escapement goals. Inseason assessment methods include both fishery performance and spawning escapement information. In the glacial systems, fishery performance data is utilized for management because poor visibility prevents the accurate observation of spawning escapements.

During 2004, the major fishing areas can be expected to open on the following dates:

Yakutat District

Area	Opening Date
Yakutat Bay (south of 59°40' N. lat.)	13 June
Dangerous River	13 June
Eastern Situk-Ahrnklin Inlet (approximately 2 miles)	20 June
Alsek River	6 June
Manby Shore Ocean	20 June
Lost River	by Emergency Order
Situk-Ahrnklin Inlet	20 June
East River	by Emergency Order
Akwe River	27 June
Remainder of the Yakutat District	27 June
Italio River	by Emergency Order

Yakataga District

Season	Opening Date
Sockeye Season	by Emergency Order
Coho Season	by Emergency Order

2004 SUMMER MANAGEMENT PLAN

This management plan concentrates on the major fisheries in the Yakutat area. Information on areas that are fished only occasionally is available from the Yakutat area management biologist listed at the end of the plan. Most Yakutat gillnet openings for sockeye will run from 6:00 a.m. Sunday through 6:00 p.m. Tuesday.

Alsek River

The Alsek River, located 45 miles southeast of Yakutat, is a major transboundary river that drains a large area east of the coastal mountain range. The Alsek extends approximately 130 miles from its mouth upriver into the Yukon Territory of Canada. The U.S./Canada border is approximately 40 miles upstream from the river mouth. The river supports large populations of chinook, sockeye, and coho salmon, and small populations of pink and chum salmon. Alaskan set gillnet fisheries target on sockeye and coho salmon. Canadian subsistence and sport fisheries target on sockeye and chinook salmon.

Commercial salmon landings from the Alaskan portion of the Alsek River averaged approximately 18,300 sockeye, 4,600 coho, and 675 chinook salmon annually from 1999 through 2003. The Canadian subsistence and sport harvest has averaged approximately 300 chinook, 1,000 sockeye, and 200 coho salmon during the same period. Subsistence and sport fisheries in the Alaskan portion of the river are relatively minor, harvesting about 200 salmon annually.

Historically, the set gillnet fishery targets chinook salmon in the Alaskan portion of the river during May. However, due to what was thought to be depressed runs, the directed chinook salmon fishery has been closed since 1962 and chinook salmon are harvested only incidentally during the sockeye salmon fishery in early June. The 2004 run of chinook salmon is expected to produce fish in surplus to the current Klukshu River escapement goal of 1,200 fish.

Both the early and late run segments of the Alsek sockeye run are expected to be below average in 2004. The total sockeye salmon count at the Klukshu River weir during the parent year (1999) was slightly over 5,000, with fewer than 400 sockeye through during the early run segment. The escapement goal for 2004 is a total of 7,500 to 15,000 sockeye past the Klukshu weir. The electronic counter on Village Creek did not work in 1999, and no counts were recorded. Sockeye escapements to most U.S. systems were also below average in 1999.

The Alsek will open on the first Sunday in June (June 6). Weekly openings will initially be set at 24 hours. The duration of weekly fishing periods will be based on fishery performance and Klukshu weir data. To minimize chinook salmon harvest, gillnets will be restricted to a maximum mesh size of 6 inches through July 1. Fishing time will be based on a comparison of current to historical fishery performance data.

The Alsek River surf fishing area is expected to be open during the same periods as the inriver fishery. The surf fishing area includes the shoreline, 0.75 of a mile in each direction, from the river mouth to the outermost bar where the surf breaks.

East River

The East River is a short, clear river originating from the upwellings and local drainage of the eastern portion of Dry Bay. The area open to inriver commercial fishing extends from the mouth to two miles upstream; the adjacent ocean waters within two miles of the mouth in each direction out to 500 yards from the shore at low tide are also open to commercial fishing. The surf and ocean area is open during the same periods as the inriver fishery.

Prior to 1994, the East River had been one of the most productive sockeye salmon fisheries in the Yakutat area. Salmon catches have dramatically declined since 1993 and have averaged about 37,000 sockeye, 1,500 chum, and 7,400 coho salmon (1994-1998). The river was closed to commercial fishing for sockeye during the 1999, 2000, 2001, and 2002 seasons. The East River was opened during coho season in 2002, and for both sockeye and coho in 2003, and minor catches were recorded.

The biological escapement goal range of 13,000 to 26,000 is in place for the 2004 sockeye season. It is possible that there will be commercial openings during the sockeye season. Escapement will be closely monitored, and the East will probably not open until the lower end of the escapement goal is attained. If the fishery does open, the duration of weekly fishing periods and open areas will be based on escapement.

If the East River sockeye salmon season opens in 2004, it will be after the fourth Sunday in June (June 27), and it is expected to continue until late August. The 2000 parent-year escapement was estimated at 21,000 fish. Sockeye recruitment has not equaled parent year escapement since 1998.

Situk-Ahrnklin and Lost River

The Situk-Ahrnklin Inlet is the site of the oldest and, historically, most productive fishery in the Yakutat area. Located about nine miles by road from Yakutat, the Situk-Ahrnklin fishery normally supports the largest concentration of fishing effort in Yakutat (up to 103 permits). Fishing occurs primarily in the inlet, although some fishing occurs at the river mouth and in the adjoining surf-fishing area. Sockeye salmon make up the major portion of the harvest during the summer and coho salmon dominate the catch during the fall. Situk-Ahrnklin catches have averaged about 63,000 sockeye, 125,000 coho, 33,000 pink, and 1,900 chinook salmon (1999-2003).

The 1999 brood year Situk River sockeye escapement was slightly over 61,000 fish. Return per spawner data indicates that the 2004 Situk River sockeye run could exceed 180,000 fish, for a harvest in excess of 100,000 and an escapement of 50,000 fish. Catches will probably be in the vicinity of the 2003 harvest of a little over 80,000 sockeye. Market conditions will affect effort levels, and effort levels can affect harvest. The sockeye salmon escapement goal range for the Situk River drainage is 30,000 to 70,000 fish through the weir.

The Situk-Ahrnklin Inlet will open initially on Sunday, June 20. Fishing periods will be based on fishery performance and escapements through the Situk River weir. To estimate the total Situk River sockeye run, a run-timing model will be used beginning several weeks after the harvest and escapement data is available. A similar model will be used to project Situk chinook salmon abundance.

Because chinook salmon are taken incidentally in the set gillnet fishery, the Situk commercial catch of chinook is largely dependent on the fishing time allowed for sockeye. If the chinook salmon return is weak, conservation actions may be necessary to reduce the incidental harvest of chinook salmon. Conservation and allocation objectives associated with the harvest of Situk River chinook salmon are described in the "Situk-Ahrnklin Inlet and Lost River Chinook Management Plan" [5 AAC. 30.365]. This plan was modified at the February 2003 Board of Fish meeting. It was re-written to provide managers with more specific direction on management actions under different run forecast scenarios, and to bring it into compliance with the Southeast Chinook Management Plan. This plan needs to be further modified to address management actions to be taken when chinook escapements are projected to be above the BEG range, as happened in 2003. Allowable gear was increased from one to two nets, one of which had to be "king gear," with mesh size not less than seven and one-half or greater than eight inches. Should this scenario arise in 2004, similar management actions will be taken.

Management options for maximizing harvest of Situk River pink salmon are limited due to the overlap in run timing with sockeye and coho salmon. Escapement goals for pink salmon in the Situk River are 42,000 to 105,000 in even years and 54,000 to 200,000 in odd years. The parent year (2002) escapement past the Situk weir was 99,000 pinks.

Steelhead trout in post-spawning condition occasionally accumulate in the Situk River prior to the time they emigrate to the ocean. When the emigration is late, there is a potential for the Situk setnet fishery to harvest a larger than normal number of adults. The rate of emigration of spawned-out steelhead often increases following periods of heavy rainfall. If a major emigration is expected to occur during a scheduled gillnet fishing period, the opening may be delayed for a few days to reduce the incidental harvest of steelhead.

During the winter of 1998/1999 the Lost River changed course and flowed into the Situk/Ahrnklin Estuary instead of the Gulf of Alaska. The Lost River continues to flow into the Situk/Ahrnklin Estuary. Prior to the 1999 fishing season, the department developed a management plan for the Lost River and Situk/Ahrnklin Estuary with the intent of meeting escapement requirements for the Lost River. This plan closed the Lost River and the North bank of the Situk/Ahrnklin Estuary between an ADF&G regulatory marker approximately 100 yards above the confluence of the Lost River and

the Situk/Ahrnklin Estuary and a marker located near the mouth of the Situk/Ahrnklin Estuary. The plan went into effect at the beginning of the season and the Lost River (Tawah Creek) was surveyed weekly throughout the season to monitor escapement. The lower marker was moved closer to the Lost River as escapement objectives in the Lost River were met. The end result was that sockeye and coho escapement goals for both the Lost River and the Situk/Ahrnklin system were met.

Based on observations made since 1999 the plan has been modified for the 2004 fishing season. The weekly escapement surveys on the Lost River indicated sockeye run timing is different for Lost River and Situk/Ahrnklin stocks. Therefore, the north bank of the Situk/Ahrnklin Estuary from a marker at the mouth of the estuary (500 yards) to a marker 100 yards above the confluence of the Lost River will be closed to commercial set gillnet fishing beginning July 9. Prior to this date the closed area will be confined to 100 yards on each side of the mouth of the Lost River. It is anticipated that the Lost River will remain closed for the entire sockeye season. The intent of these closures is to achieve the escapement goal (peak float count) of between 1,000 and 2,300 sockeye salmon that has been established for the Lost River and to maximize fishing opportunity in the Situk/Ahrnklin estuary. Regulatory marker placement may change during the course of the season as escapement or river channel movement warrants.

Yakutat Bay

Three separate set gillnet fisheries occur in Yakutat Bay. The Yakutat Bay fishery occurs in the ocean waters of Yakutat Bay south of 59°40' N. latitude and will open on the second Sunday of June (June 13). The Manby Shore Ocean fishery encompasses the ocean waters of Yakutat Bay north of 59°40' N. latitude and will open the third Sunday of June (June 20). The Manby Shore inland fishery will open on the fourth Sunday of June (June 27). This fishery includes the streams along the northern shore of Yakutat Bay.

Yakutat Bay and Manby Shore Ocean Fisheries

Both the Yakutat Bay and Manby Shore Ocean fisheries harvest mixed stocks of sockeye salmon. Tag recovery data collected in 1987 indicated that a major portion of the Monti Bay sockeye harvest was of Situk origin. Because of the high Situk River sockeye contribution to the Yakutat Bay and Manby Shore ocean fisheries, both fisheries will be managed to conserve or harvest Situk River sockeye from the third week in June through the third week of July. The Yakutat Bay fishery will open on Sunday, June 13 for 2.5 days. The weekly fishing period will be limited to a maximum of 4.5 days due to the mixed stock nature of the ocean fisheries and the potentially adverse impact on weaker Yakutat area stocks.

The Manby Shore fishery will open on Sunday, June 20. Weekly fishing periods will depend on Situk River sockeye salmon run strength.

Manby Shore Inland Fishery

Management of the Manby Shore inland fisheries (waters upstream of the mean high-tide line) will be based on the abundance of local stocks. During the summer, these fisheries harvest salmon primarily from Manby and Sudden Streams. A 2.5-day weekly fishing period can be expected during the initial opening period scheduled for June 27. Additional open periods will depend on fishery performance.

Humpback Creek Fishery

The Humpy Creek fishery located in the southeastern portion of Yakutat Bay targets pink salmon. A below average run is expected at Humpy Creek for the 2004 season. Humpy Creek was not surveyed during the 2002 parent year. Inseason management of this fishery will be based on observed pink salmon escapement to Humpy Creek and the availability of pink salmon in the Yakutat Bay fishery. Escapement goals (peak aerial count) of 3,300 to 8,000 pink salmon in even years and 7,000 to 18,000 pink salmon in odd years have been established for Humpy Creek. There has not been a directed fishery on Humpy Creek for many years.

Akwe River

The Akwe River is a glacial river system located about 35 miles south of Yakutat. The lower seven miles of the river are wide and shallow and flow parallel to the beach before entering the ocean. The commercial fishery occurs in this lower portion of the river. The 1999-2003 average Akwe River harvest was approximately 10,800 sockeye, 2,000 coho, and 140 chinook salmon. This average reflects the 2000 harvest of 21,000 sockeye, the second highest on record, and the 2001 harvest of 17,000, the sixth highest on record. The previous 10-year average for sockeye was approximately 3,000 fish. The Akwe has not been fished for coho since 2001, due to market conditions.

The sockeye salmon return to the Akwe River is expected to be average in 2004 based on parent-year fishery performance and effort. Parent-year escapement counts were minimal. The sockeye fishery is scheduled to open on Sunday, June 27 and the season will extend through early August. Inseason management will be based on fishery performance and index escapement counts, and reductions in the normal 2.5-day weekly fishing period may be necessary to insure adequate escapement. An escapement goal (peak aerial count) of 600 to 1,500 sockeye salmon has been established for the Akwe River.

The Akwe River will be open upstream of the markers located about 0.5 miles from the terminus of the Akwe River lagoon at mean low tide to the upper markers located 2.5 miles downstream from the westernmost end of the Sand Dunes, a fishing area of about four miles.

Italo River

The Italo River is located adjacent to the Akwe River. The Italo supports small runs of sockeye and coho salmon. The course of the Italo River changed and flowed into the lower Akwe River during the winter of 1986/1987 and both rivers now share a common mouth. Both Italo and Akwe salmon stocks are present in this area and for some distance upstream in each river. Determination of Akwe or Italo run strengths based on fishing success in the junction area is not possible. Therefore, the junction and a portion of each river above the junction is closed to set gillnet fishing.

The Italo River sockeye salmon fishery has not been open since 1987. When the Italo River changed channel and entered the Akwe River lagoon, the homing ability of Italo River sockeye salmon may have been negatively affected. As a result, it may take several years for the productivity of the Italo River sockeye stock to return to historic levels. The Italo River fishery opens by emergency order when good escapements are observed. The parent-year escapements for this year's sockeye return were below the lower range of the escapement goal in place at that time. Based on an analysis in the winter of 2002-2003 the existing escapement goal for the Italo was rescinded and no formal goal is in place due to changes in productivity of the system.

Yakataga District

The Yakataga District is not expected to be open during the sockeye season in 2004. It will open by emergency order sometime in August based on coho escapement.

2004 FALL MANAGEMENT PLAN

Fall fishing is directed primarily at harvesting coho salmon, although fall chum salmon can contribute to the catches on the East River. The fall fishing season generally will start on the first Sunday of August. At that time, the regulatory weekly fishing period changes in most areas to a 12:01 p.m. opening, and 12:00 noon, closing time.

During the fall, set gillnet fishing occurs in both the Yakutat and Yakataga Districts. In the Yakutat District, the fall coho salmon fishery occurs primarily in the same areas as the summer sockeye salmon fishery. In the Yakataga District, there are areas where only coho salmon fishing takes place.

Overall catches and escapements of coho salmon in the Yakutat area were below average in the parent year (2000). The Situk River recorded escapement counts well below the bottom level of the escapement goal range, while the peak count for the Tsiu River was just slightly above the bottom level of the goal range. Indications are that inclement weather severely limited coho surveys in

2000. The recent 10-year history of coho returns to Yakutat has been excellent, and the 2004 coho salmon run is expected to be average to above average area-wide.

Yakutat District

Fall fishing will begin on Sunday, August 1 in the Yakutat District, except in the East River where management will continue to be based on sockeye salmon run strength through most of August. The initial fishing periods can be expected to extend from 12:01 p.m. Sunday through 12:00 noon Wednesday.

Inseason management of all Yakutat District fall fisheries will be based on fishery performance data and inseason coho escapement surveys. The following escapement goals (peak aerial or float counts) have been established for coho salmon in the Yakutat District: East River 2,500 to 8,500; Akwe River 1,800 to 5,000; Italo River 1,400 to 3,600; Situk River 3,300 to 9,800; and Lost River 2,200 to 6,500.

Fishing time and area adjustments will be made for each river as needed for conservation. A closed area can be expected in the Yahtse River to protect schools of milling coho salmon at tributary mouths. The actual closed water area will be based on inseason observations of coho schooling behavior, which is related to river flow conditions. Several small coho streams are located along the forelands west of the Yahtse River to Cape Yakataga. Most of these streams have very small numbers of spawning coho and cannot support inriver set gillnet fisheries. This entire area will remain closed until harvestable surpluses are evident.

Yakataga District

The major fisheries in the Yakataga District occur for coho salmon on the Kaliakh and Tsiu Rivers, located about 125 miles northwest of Yakutat. The Tsiu River is the more productive of the two rivers; in recent years, catches have averaged about 56,000 coho salmon. The Kaliakh has not been fished since 1999. The Tsiu has not been fished since 2001, due to market conditions. Parent-year (2000) escapement counts were slightly above the low end of the goal range for the Tsiu River. The Kaliakh was not surveyed in 2000. The 2002 coho salmon return is expected to be average in both the Tsiu and Kaliakh Rivers. Escapement goals (peak aerial counts) of 10,000 to 29,000 and 4,000 to 14,000 coho salmon have been established for the Tsiu and Kaliakh rivers, respectively.

The Tsiu River opening date and fishing periods will be determined from observed escapements above and below the regulatory markers. The Kaliakh River weekly fall fishing periods will normally open from 9:00 a.m., Sunday through 9:00 a.m., Wednesday, beginning on August 7.

Market conditions will dictate whether or not the Yakataga District is fished in 2004. The area is remote and fish must be flown to markets. It is possible that it will be economically unfeasible to fish the district.

YAKUTAT AREA-2004 SALMON RUN PROJECTIONS

Sockeye Salmon

Alsek River

The parent-year sockeye escapement was approximately 5,000 through the Klukshu Weir. The Alsek appears to be rebounding from a period of low production. A total harvest of around 13,000 – 18,000 sockeye is expected.

East River

The parent year escapement was approximately 21,000 sockeye. An equivalent return this year could lead to a harvest of approximately 5,000 – 7,000 fish. If the East River opens, effort will probably be limited to a few Alsek River fishermen.

Akwe River

No parent-year escapement counts are available. An average catch of 3,000 to 4,000 sockeye is expected for 2004 based on parent-year fishery performance and effort. Indications are that very little fishing effort will be directed towards the Akwe in 2004.

Italio River

Parent-year escapement was below the recommended escapement goal range (as noted above, we now do not have an official escapement goal for the Italio), and it is unlikely there will be a directed sockeye salmon fishery in the Italio River in 2004.

Situk River

The parent-year escapement was 61,500 fish. A harvest of around 80,000 to 90,000 sockeye, with an escapement of about 50,000 sockeye, is expected.

Coho Salmon

Tsiu/Kaliakh River

If there is any effort, a catch of over 40,000 coho may be possible in the Tsiu River in 2004. In the Kaliakh River, a harvest of 1,000 to 3,000 coho is possible.

Area-wide

Parent-year escapements were below average in most areas. Based on recent trends in the fishery, the run is expected to be average to above average. The area wide set gillnet catch is expected to be about 200,000 coho, but effort, and how it is distributed throughout the area, will have a large say in how many coho get harvested.

FISHERY CONTACTS

The following Alaska Department of Fish and Game, Division of Commercial Fisheries staff may be contacted regarding this management plan:

Andy McGregor
Region I Supervisor

P.O. Box 240020
Douglas, Alaska 99824
(907) 465-4250

Scott Kelley
Region I Management Biologist

P.O. Box 240020
Douglas, Alaska 99824
(907) 465-4250

Gordie Woods
Area Management Biologist

P.O. Box 49
Yakutat, Alaska 99689
(907) 784-3255

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