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I-1. Southern Southeast Chinook Salmon Enhancement

The primary purpose of this program is to increase Chinook salmon fishing opportunities in the local marine sport fisheries around Petersburg, Wrangell, Prince of Wales, and Ketchikan, along with some harvests in other Southeast Alaska marine recreational fisheries. In Petersburg, Blind Slough is the intertidal outlet of Crystal Creek and Crystal Lake, which is the water source for Crystal Lake Hatchery (CLH). Blind Slough is located on the Petersburg road system approximately 15 miles south of town and its waters terminate into the Wrangell Narrows. Sport fishing is the most popular recreational activity at Blind Slough and receives intensive Chinook salmon fishing effort by residents and visitors between late-May and August in a designated terminal harvest area that includes Blind Slough and a portion of the Wrangell Narrows. Adults returning to the area provide Chinook salmon not only to the sport fishery, but also for the entire common property fishery as well as provide broodstock for the area's enhancement projects.

In Ketchikan, a release of Chinook salmon will be made at Herring Cove into the waters of Carroll Inlet. Smolt are transported to net pens in Carroll Inlet from Whitman Lake Hatchery for short-term saltwater rearing, imprinting, and release. This release supports popular terminal marine and shoreline sport fisheries in the area around Herring Cove, and accounts for a large portion of Chinook sport fish harvest in the Ketchikan area. The unique shoreline fishing opportunity provided by this release benefits anglers who are not able to utilize marine boats for sport fishing.

The Division of Sport Fish maintains a cooperative agreement with the Southern Southeast Regional Aquaculture Association (SSRAA) to provide releases of Chinook salmon smolt for Prince of Wales, Wrangell, and Petersburg area fisheries. Utilizing production of CLH and SSRAA's Whitman Lake Hatchery will result in the following releases of Chinook salmon:

1. *Prince of Wales Area*

- a) An annual release of up to 700,000 Chinook salmon smolt will be made at SSRAA's Port Saint Nicholas Hatchery. This release will be comprised of up to 250,000 smolt produced by SSRAA and up to 450,000 smolt produced by the division's CLH facility near Petersburg. Both releases will be from Chickamin River ancestral stock.

2. *Petersburg Area*

- a) An annual release of up to 600,000 Chinook salmon smolt reared at CLH will be made into Blind Slough. These fish will be from Andrew Creek ancestral stock. Broodstock will be collected from returns to Blind Slough to be used for releases at Blind Slough, Anita Bay (near Wrangell).

NOTE: Funding of Chinook salmon smolt reared at CLH for an annual release at Anita and Port Saint Nicholas comes from SSRAA through a cooperative agreement.

3. *Ketchikan Area*

- a) An annual release of up to 700,000 Chinook salmon reared at SSRAA's Whitman Lake Hatchery will be released at Herring Cove in the waters Carroll Inlet in the Ketchikan area. These fish will be from Chickamin River ancestral stock.

Objectives

1. Generate 5,000 angler days of salmon fishing effort per year in the Prince of Wales area marine sport fishery resulting from releases of 700,000 Chinook salmon smolt at Port Saint Nicholas.
2. Provide for a harvest of up to 1,000 Chinook salmon in the Prince of Wales area marine sport fishery resulting from the release of 700,000 Chinook salmon smolt at Port Saint Nicholas.

I-1. Southern Southeast Chinook Salmon Enhancement (continued)

3. Generate 2,500 angler days of salmon fishing effort per year at Blind Slough, and 4,000 angler-days effort in the Wrangell Narrows marine boat fishery that in part result from annual releases of 600,000 Chinook Salmon at CLH. Additionally, enhance angling effort levels in the Petersburg and other non-terminal marine sport fisheries as Chinook salmon return to CLH.
4. Provide for a harvest of 3,000 Chinook salmon per year within Blind Slough and the Wrangell Narrows marine boat fishery resulting from the release of 600,000 Chinook salmon at CLH. Additionally, enhance Chinook salmon harvest levels in the Petersburg and other non-terminal marine sport fisheries as Chinook salmon return to CLH.
5. Generate 5,000 angler days of salmon fishing effort per year in the Ketchikan area marine sport fishery resulting from releases of 700,000 Chinook salmon smolt at Herring Cove.
6. Provide for a harvest of up to 1,000 Chinook salmon in the Ketchikan area marine sport fishery resulting from the release of 700,000 Chinook salmon smolt at Herring Cove.

Actions

1. Annually stock up to 600,000 Chinook salmon smolt in Crystal Creek of which 100% will be adipose fin-clipped and at least 20% will be tagged with coded wire.
2. Annually stock approximately 450,000 Chinook salmon smolt in Port Saint Nicholas near Craig, of which 100% will be adipose fin-clipped and at least 20% will be tagged with coded wire.
3. Annually stock approximately 450,000 Chinook salmon smolt in Anita Bay near Wrangell, of which 100% will be adipose fin-clipped and 20% will be tagged with coded wire.

Evaluations

1. Sport fishing effort, and Chinook salmon harvest at Blind Slough and Wrangell Narrows terminal area will be estimated through the Statewide Harvest Survey.
2. Hatchery Chinook salmon harvest in the Petersburg marine boat fishery will be monitored through a coded wire sampling program conducted at the docking facilities in Petersburg.
3. Sport fishing effort and Chinook salmon harvest in the marine boat fishery outside of the terminal area will be monitored through the statewide harvest survey project and a creel survey program conducted at the docking facilities in Petersburg, Wrangell, Ketchikan, Prince of Wales Island, Sitka, and Juneau.
4. Sport fishing effort and Chinook salmon harvest in the marine charter boat fishery will be monitored via the mandatory statewide logbook program.

I-2. Juneau Chinook Salmon Enhancement

The primary purpose of this program is to: 1) increase Chinook salmon fishing opportunities in the Juneau marine-boat sport fishery, 2) provide saltwater shoreline Chinook salmon sport fishing opportunities in Fritz Cove, and 3) provide freshwater Chinook salmon fishing opportunities at Fish Creek. The enhancement program is supported through the ongoing production of Chinook salmon smolt that are imprinted and released at one location in the Juneau area. This enhancement program is carried out by the Douglas Island Pink and Chum Corporation, Inc. through a cooperative agreement with the Alaska Department of Fish and Game, Division of Sport Fish.

In the spring, Chinook salmon smolt are held for imprinting and released from net pens in Fish Creek Pond. Returning adults support a popular sport fishery in a terminal area and provide additional Chinook salmon to common property fisheries in the region. Harvests of hatchery Chinook salmon are especially beneficial at times when abundance of wild Chinook salmon stocks are at lower levels and more restrictive fishing measures must be implemented. Liberalized sport fishing regulations can be implemented in terminal harvest areas where Alaska hatchery Chinook salmon will return. This has provided significant benefits to both resident and non-resident sport anglers.

To date, it appears there is very little straying of hatchery Chinook salmon to local streams¹. A few hatchery Chinook salmon have been seen in nearby streams where there are no wild Chinook populations; and only one has been recovered in the nearby Taku River drainage where a wild population currently exists.

Objectives

1. Provide an additional annual harvest of 850 Chinook salmon in the Juneau marine boat sport fishery.
2. Generate 2,000 angler-days of fishing effort per year for Chinook salmon within the Juneau terminal harvest area.
3. Provide an additional harvest of 500 Chinook salmon per year at saltwater shoreline areas in the Juneau terminal harvest area and in the freshwaters of Fish Creek.

Actions

1. Annually stock up to 250,000 Chinook salmon smolt in Fish Creek, of which 20% (50,000) will be coded-wire tagged with a unique and valid tag code, and a 100% (250,000) will be adipose fin-clipped.

Evaluations

1. Sport fishing effort and hatchery Chinook salmon harvests from saltwater shoreline areas in the Juneau terminal harvest area, and at Fish Creek will be estimated through the Statewide Harvest Survey.
2. Sport fishing effort and Chinook salmon harvest in the marine boat fishery will be monitored through a creel survey program conducted at launch ramp and docking facilities in Juneau.
3. Shoreside sport fishing effort and Chinook salmon harvest will be monitored through a creel survey at Fish Creek Pond and the Macaulay Hatchery.

¹ Pryor, F., S. McGee, C. Blair, R. Freitag, K. Pahlke, F. Thrower, and S. Kelley. 2005. 2004 Annex: Chinook Salmon Plan for Southeast Alaska. Alaska Department of Fish and Game, Fishery Management Report No. 05-35, Juneau.

I-3. Blind Slough Coho Salmon Enhancement

The primary purpose of this program is to mitigate losses of Crystal Creek spawning habitat associated with operation of the Blind Slough Hydroelectric Project, by enhancing coho salmon fishing opportunities at Blind Slough below Crystal Lake Hatchery and in the local marine sport fishery around Petersburg.

Blind Slough is the intertidal outlet of Crystal Creek and Crystal Lake, which is the water source for Crystal Lake Hatchery and Blind Slough Hydroelectric Project owned and operated by Petersburg Municipal Power & Light. Blind Slough is located on the Petersburg road system approximately 15 miles south of town. Sport fishing is the most popular recreational activity at Blind Slough and receives coho salmon fishing effort by residents and visitors during August and September.

Objectives

1. Provide for a harvest of 1,500 coho salmon per year at Blind Slough and in the Wrangell Narrows marine boat sport fishery.
2. Generate 2,000 angler-days of fishing effort per year in Blind Slough and 2,000 angler days effort in the Wrangell Narrows marine boat fishery

Action

1. Annually stock up to 160,000 coho salmon smolt in Crystal Creek of which at least 20,000 fish will be adipose fin-clipped and tagged with coded wire.

Evaluation

1. Sport fishing effort and coho salmon harvest at Blind Slough and Wrangell Narrows terminal area will be estimated through the Statewide Harvest Survey.

I-4. Swan Lake Rainbow Trout Enhancement

The primary purpose of this program is to increase the availability of rainbow trout in Swan Lake located in downtown Sitka to improve angler success. Swan Lake is the site of an annual Junior Trout Derby for young anglers and receives a considerable amount of fishing pressure during the open water season. Fish resident to the system include cutthroat and rainbow trout and Dolly Varden. Regulations adopted by the Board of Fisheries closed the inlet stream to fishing to protect the spawning and rearing trout populations. This stocking project will not necessarily increase the amount of fishing effort per year, but it will provide a higher degree of success for derby anglers and general public who fish Swan Lake.

Objectives

1. Generate 200 angler-days of fishing effort per year for young anglers fishing Swan Lake.
2. Provide for a harvest of 150 rainbow trout per year at Swan Lake.

Action

1. Annually supplement the existing rainbow trout population in Swan Lake with approximately 300 subcatchable rainbow trout from nearby Sukoi Lake.

Evaluation

1. A portion of transferred fish will be given a mark prior to release at Swan Lake, and derby catch and harvest will be monitored and sampled to estimate annual transfer contributions. When possible, on-site sampling will be conducted at Sukoi Lake to assess stock status.

I-5. Ketchikan Road System Lake Enhancement Program

The primary purpose of this program is to provide sport fishing opportunities in fresh water by stocking rainbow trout at three lakes in Ketchikan. All three of the sites consist of freshwater lakes that are easily accessible from the Ketchikan road system. The sites that will be stocked are Lake Harriet Hunt, Carlanna Lake, and Ketchikan City Park Ponds. The fish released into the City Park Ponds will be used for the annual Kids Fishing Derby. The lakes selected for stocking are barriered and considered Category 3 lakes under the Sport Fish Stocking Policy. The policy allows for the use of verified all-female triploid rainbow trout as long as there is no possibility of stocked fish interbreeding with native populations or establishing a new population.

The first stocking events will occur in 2020 at Lake Harriet Hunt and Carlanna Lake and in 2021 at the Ketchikan City Park Ponds. The plan is to release up to 12,000 into Carlanna lake, up to 40,000 into Lake Harriet Hunt, and up to 2,000 into Ketchikan City Park Ponds. There will be 4 stocking events each year as outlined:

- May – Release 24,250 – 5,250 Carlanna Lake and 19,000 Lake Harriet Hunt
- June – Release 14,125 – 2,625 Carlanna Lake, 9,500 Lake Harriet Hunt, and 2,000 Ketchikan City Park Pond (starting in 2021)
- July – Release 5,763 – 1,313 Carlanna Lake and 4,450 Lake Harriet Hunt
- August – Release 3,117– 892 Carlanna Lake, 2,225 and Lake Harriet Hunt

The egg source for these releases will be eyed certified, all-female triploid eggs from the rainbow trout captive broodstock program at the William Jack Hernandez Sport Fish Hatchery (WJHSFH). Eyed eggs are transported from WJHSFH to the Deer Mountain Hatchery, operated by Southern Southeast Regional Aquaculture Association, where they will be incubated and reared to target stocking size. Funding for this project is provided by ADF&G.

Objectives

1. Provide more freshwater fishing opportunity on the Ketchikan road system.
2. Generate 2,000 angler-days of opportunity directed at rainbow trout fishing in Ketchikan.
3. Provide for a harvest of 3,000 triploid rainbow trout per year at Lake Harriet Hunt, Carlanna Lake and City Park Ponds.

Actions

1. Annually stock up to 12,000 triploid rainbow trout into Carlanna Lake in the late spring or early summer.
2. Annually stock up to 40,000 triploid rainbow trout into Lake Harriet Hunt in the late spring or early summer.
3. Annually stock up to 2,000 catchable triploid rainbow trout into Ketchikan City Park Ponds just prior to Kids Fishing Day starting in 2021.

Evaluation

1. Sport fishing effort and rainbow trout harvest at Lake Harriet Hunt and Carlanna Lake will be estimated through the Statewide Harvest Survey and anecdotal assessments during Kids Fishing Day and other peak fishing times and events.

Table I-XX. Stocking actions for Ketchikan road system non-anadromous enhancement program.

Lake	Lake Size (Acres)	Lake Category	Species	Stocking Schedule
Carlanna Lake	33.9	3	Rainbows	Annually (spring/early summer)
Lake Harriet Hunt	194	3	Rainbows	Annually (spring/early summer)
Ketchikan City Park Ponds	<1	3	Rainbows	Annually (early summer)

REGION I: Chinook salmon Summary By Area**Sport Fish 5-Year Stocking Plan**

Table I-KS1. Summary of Chinook salmon releases in Region I listed by area and lifestage.

01-Dec-22

Area	Lifestage	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Juneau	Smolt	250,000	0	0	0	0
		250,000	0	0	0	0
Ketchikan	Smolt	700,000	0	0	0	0
		700,000	0	0	0	0
Petersburg	Smolt	1,050,000	0	0	0	0
		1,050,000	0	0	0	0
Prince of Wales	Smolt	450,000	0	0	0	0
		450,000	0	0	0	0
Total Chinook salmon		2,450,000	0	0	0	0

REGION I: coho salmon Summary By Area

Sport Fish 5-Year Stocking Plan

Table I-CS1. Summary of coho salmon releases in Region I listed by area and lifestage.

01-Dec-22

Area	Lifestage	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Petersburg	Smolt	100,000	0	0	0	0
		100,000	0	0	0	0
	Total coho salmon	100,000	0	0	0	0

REGION I: rainbow trout Summary By Area**Sport Fish 5-Year Stocking Plan**

Table I-RT1. Summary of rainbow trout releases in Region I listed by area and lifestage.

01-Dec-22

Area	Lifestage	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Ketchikan	Catchable	2,000	2,000	2,000	2,000	2,000
Ketchikan	Sub/Catchable	52,000	52,000	52,000	52,000	52,000
		54,000	54,000	54,000	54,000	54,000
Sitka	Subcatchable	300	300	300	300	300
		300	300	300	300	300
	Total rainbow trout	54,300	54,300	54,300	54,300	54,300

REGION I: Chinook salmon Summary By Lifestage

Sport Fish 5-Year Stocking Plan

Table I-KS2. Summary of Chinook salmon releases in Region I listed by lifestage and area.

01-Dec-22

Lifestage	Area	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Smolt	Juneau	250,000	0	0	0	0
Smolt	Ketchikan	700,000	0	0	0	0
Smolt	Petersburg	1,050,000	0	0	0	0
Smolt	Prince of Wales	450,000	0	0	0	0
		2,450,000	0	0	0	0
Total Chinook salmon		2,450,000	0	0	0	0

REGION I: coho salmon Summary By Lifestage

Sport Fish 5-Year Stocking Plan

Table I-CS2. Summary of coho salmon releases in Region I listed by lifestage and area.

01-Dec-22

Lifestage	Area	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Smolt	Petersburg	100,000	0	0	0	0
		100,000	0	0	0	0
	Total coho salmon	100,000	0	0	0	0

REGION I: rainbow trout Summary By Lifestage

Sport Fish 5-Year Stocking Plan

Table I-RT2. Summary of rainbow trout releases in Region I listed by lifestage and area.

01-Dec-22

Lifestage	Area	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
Catchable	Ketchikan	2,000	2,000	2,000	2,000	2,000
		2,000	2,000	2,000	2,000	2,000
Sub/Catchable	Ketchikan	52,000	52,000	52,000	52,000	52,000
		52,000	52,000	52,000	52,000	52,000
Subcatchable	Sitka	300	300	300	300	300
		300	300	300	300	300
Total rainbow trout		54,300	54,300	54,300	54,300	54,300

REGION I: Chinook salmon Planned Releases

Sport Fish 5-Year Stocking Plan

Table I-KS3. Planned releases of Chinook salmon in Region I listed by area and release site.

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Fishery Plan	Area	Hatchery	Release Site	Lifestage	Lake Ploidy Category	Target Release Size/Date	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
I-2	Juneau	Macaulay	Fish Ck	Smolt	2N	25 g / 31 May	250,000	0	0	0	0 (a)
Total:							250,000	0	0	0	0
I-1	Ketchikan		Herring Cove	Smolt	2N	25g / 31 May	700,000	0	0	0	0 (b)
Total:							700,000	0	0	0	0
I-1	Petersburg	Crystal L	Anita Bay	Smolt	2N	20g / 31 May	450,000	0	0	0	0 (b)
I-1	Petersburg	Crystal L	Blind Slough	Smolt	2N	20g / 31 May	600,000	0	0	0	0 (b)
Total:							1,050,000	0	0	0	0
I-1	Prince of wales	Crystal L	Port Saint Nicholas	Smolt	2N	25g / 31 May	450,000	0	0	0	0 (b)
Total:							450,000	0	0	0	0
Total Chinook salmon							2,450,000	0	0	0	0

Notes:

- (a) Stocking after FY 23 are dependent on funding; Cooperative effort between ADF&G and DIPAC.
- (b) Stocking after FY 23 are dependent on funding; Cooperative effort between ADF&G and SSRAA.

REGION I: coho salmon Planned Releases

Sport Fish 5-Year Stocking Plan

Table I-CS3. Planned releases of coho salmon in Region I listed by area and release site.

Fishery Plan	Area	Hatchery	Release Site	Lifestage	Lake Ploidy Category	Target Release Size/Date	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
I-3	Petersburg	Crystal L	Blind Slough	Smolt	2N	10g / 31 May	100,000	0	0	0	0 (b)
Total:							100,000	0	0	0	0
Total coho salmon							100,000	0	0	0	0

Notes:

(b) Stocking after FY 23 are dependent on funding; Cooperative effort between ADF&G and SSRAA.

REGION I: rainbow trout Planned Releases

Sport Fish 5-Year Stocking Plan

Table I-RT3. Planned releases of rainbow trout in Region I listed by area and release site.

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Fishery Plan	Area	Hatchery	Release Site	Lifestage	Lake Ploidy	Category	Target Release Size/Date	2023 Projected	2024 Projected	2025 Projected	2026 Projected	2027 Projected
I-5	Ketchikan		City Park Ponds	Catchable	3N	3	103 g /	2,000	2,000	2,000	2,000	2,000 (b)
Total:								2,000	2,000	2,000	2,000	2,000
I-5	Ketchikan		Carlanna Lake	Sub/Catchable	3N	3	102 g /	12,000	12,000	12,000	12,000	12,000 (b)
I-5	Ketchikan		Harriet Hunt	Sub/Catchable	3N	3	101 g /	40,000	40,000	40,000	40,000	40,000 (b)
Total:								52,000	52,000	52,000	52,000	52,000
I-4	Sitka		Swan L	Subcatchable	2N	3	lb-legal / 31 May	300	300	300	300	300 (c)
Total:								300	300	300	300	300
Total rainbow trout								54,300	54,300	54,300	54,300	54,300

Notes:

- (b) Cooperative effort between ADF&G and SSRAA.
- (c) Wild fish transferred from Sukoi Lake.