watershed. The Karluk Lake Arctic char have access to sockeye salmon smolts but do not attain large size in spite of the availability of this food source.

3. The dwarf char in Cooper Lake that are sexually mature at a lenth of 9 to 10 inches and show parr marks in spawning adults.

I have an E mail from glacial geologist Pat Miller who believes there was a glacial refugium in the Susitna River watershed, in a rain shadow lake, during the Wisconsin glaciation. This information, if verified, could explain the presence of large Arctic char in Big Lake.

The presense of Arctic char on Kodiak Island could be explained by a refugium there.

The source of the Arctic char on the Kenai Peninsula remains unknown. I'm in touch with glacial geologist Richard Reger who studied this area. I hope to meet with him soon to determine if there were unglaciated areas on the Kenai Peninsula during the Wisconsin glacial period.

Your published papers on Arctic char describe our char as Salvelinus alpinus taranetzi and suggest this same subspecies occurs from the Gulf of Alaska to the Chukotsk Peninsula in eastern Siberia. I'm wondering if our dwarf and medium sized Arctic char could have evolved south of the Alaska Peninsula as did the southern subspecies of Dolly Varden. One reason for my belief is the indication that our Arctic char appears to be incompatible with lake trout while many populations in the Bristol Bay area occur with lake trout. Arctic char in Bristol Bay also attain maximum weights 2.5 to 3 times larger than our medium sized char.

The information at my disposal suggests that the dwarf Arctic char in Cooper Lake are unique in South Central Alaska. Cooper Lake is 5 miles long, a mile wide and 475 feet deep. Karluk Lake is over twice that size. It is 12 miles long, slighty over a mile wide and 413 feet deep. Since a variety of habitats seem necessary for dwarf Arctic char to develop I expected there would also be dwarf Arctic char in Karluk Lake. To my knowledge no one has reported dwarf char from this lake and it is one of the most studied lakes in Alaska.

One genetic study I've acquired included Kenai Peninsula Arctic char. This paper was by Phillips, Pleyte and Brown in 1992. They analyzed three fish from East Finger Lake and eight fish from Dolly Varden Lake in the Swanson River watershed. Those fish were shown to be different at one restriction site in rDNR compared to $\frac{S.a.}{c}$ erythrinus from the North West Territory. At two sites they differed from Dolly Varden from the Fox River on the Kenai Peninsula.

A second paper by Leder and Phillips, that was presented at the 1998 Char Fanatics workshop, also included fish from East Finger

Lake. One analysis grouped the E. Finger Lake Arctic char with char from Lake Aleknegik in Bristol Bay. A second analysis had E. Finger Lake char grouped with Chukotsk and N.W. Territory Arctic char. A third analysis had E. Finger Lake char far removed from all other groupings of the Arctic char and Dolly Varden reported in this study. The inconsistent groupings presented in this paper make little sense.

Hopefully we'll get some char samples to you from Cooper Lake and at least one lake in the Swanson River watershed after breakup.

Your comments and suggestions on this letter would be appreciated.

cc:Vicki Davis and Ted Bailey, Kenai Nat'l Wildlife Refuge

Thank you for your interest, Bob.

Sincerely,

Jack Dean P.O. Box 428

Sterling, Alaska 99672

(907) 262 9769

E mail: songbird@alaska.net

Jack Dean P.O. Box 428 Sterling, AK 99672



Dr. Robert Behnke 3429 East Prospect Road Ft. Collins, Co 80525 H: Bob,

Just a note to let you know that we have 3 Arctic char in termalin from wolf halle on the Kenzi Natil wild! he Retuse and 6 or 7 Arctic char from Gooper talk on the Chaquet Natil Forest also in termalin. There should be a couple of fucificher the Gooper table sample.

As I recall you wented these fish pickeled for about 3 weeks. They should be ready for ship ment by mire July,

If the Tarenet's char has short, stout, thick gill raters I'm wondering what sale species at Arctic char is present here? Our char, as you will see, thousand pocess short, thick, stone gill raters.

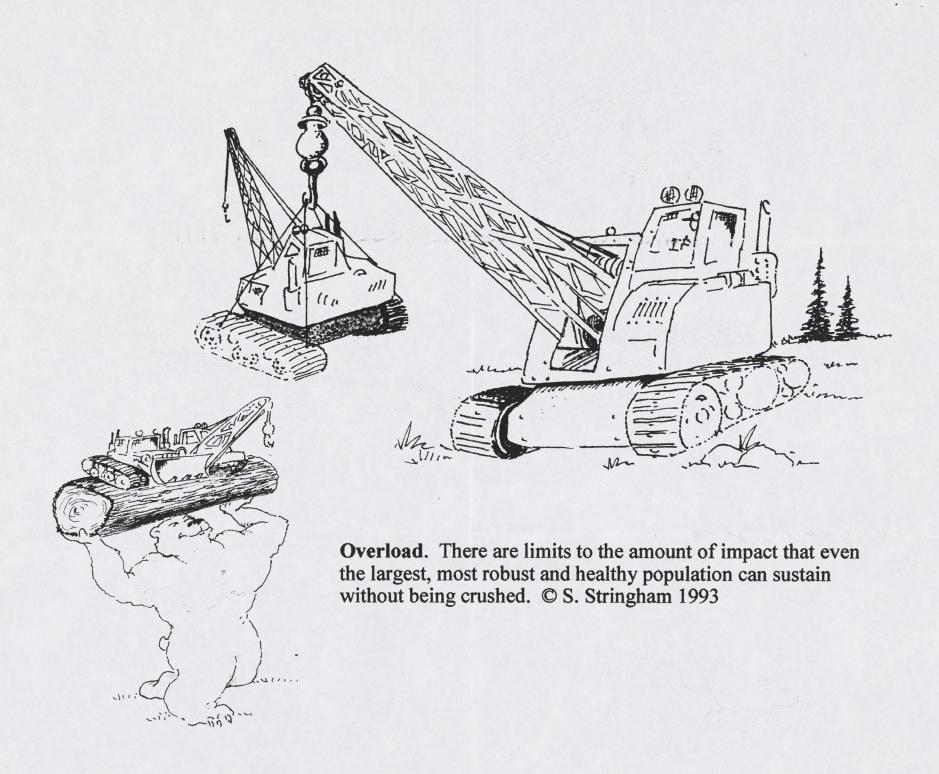
I'm still improving my Arctic char status report.

Should be finished with it shortly, although
I'm well aware that it is really no more

than a world in progress.

Talle care, Bub.

Yack





JACK & BETTY DEAN PO Box 428, Sterling, AK 99672



Dr. Robert Behnke 3429 East Prospect Road Ft. Collins, CO 80525

ce potting it ill Augether -old - enthanity DV -AC some opi * - ses run A.c. bather -Anedrick. Nev. meet Ats chip Picollo

H. Bob.

I was pleased to get you latest letter. You mentioned that the Tavanets char has short blunt, stout gill rakers.

The been counting fill villers and pylorize acce on some of the char he cought vecently. Our char has long a pointed fill rathers. The longest fill vallers, the ones at the angle between the appear and lones are about 4-5 mm long in a 400 mm fish.

I should have the char report I sent you a dreft. I didn't realize, when I sent it, that shere were so many misspelled words and typis in id. My next version should remove most of the mistakes.

I'll mail a copy of my che report to Dr. Melson. In Looking to all the help I can get be still hrow tishery biologists here that don't believe Dretic char end Dolly Varden are separate species.

The USFWS set 3 gills overnight in Cooper Like recently. I helped them we cought about 150 char, mostly the dwarf torm.

- Morrow, J.E. 1980. The freshwater fishes of Alaska. 248 p.
- Morrow, J.E. 1980. Analysis of the Dolly Varden charr, Salvelinus malma of northwestern North America and northeastern Siberia. In: E.K. Balon (ed.) Charrs, salmonid fishes of the genus Salvelinus. 323-338. Junk Publ. The Hague.
- Phillips, R.B., L.I. Gudex, K.M. Westrich and A.L. DeCicco. 1999. Combined pylogenetic analysis of ribosomal ITS1 sequences and new chromosome data supports three subgroups of Dolly Varden char (Salvelinus malma). Can. J. Fish. Aquat. Sci. 56: 1504-1511.
- Phillips, R.B., K.A. Pleyte and M.R. Brown. 1992. Salmonid phylogeny inferred from ribosomal DNA restriction maps. Can. J. Fish. Aquat. Sci. 49: 2345-2353.
- Reger, R.D. and D.S. Pinney. 1997. Last major glaciation of Kenai lowland. Alaska Geological Society, 1997. 54-67.
- Scott, W.B. and E.J. Crossman. 1973. Freshwater fishes of Canada. Fish. Res. Bd. Can. Bull. 184. 966 p.
- Sternberg, R. 1987. Freshwater gamefish of North America. Prentice Hall Press. New York, NY. 54-55.
- Tobin, J.H. and D.E. Palmer. 1997. Fishery and limnological surveys of 25 lakes on the Kenai National Widllife Refuge, Alaska, 1993. U.S. Fish and Wildlife Service. Alaska Fish. Data Ser. 97-3. 51 p.
- Woods, P.F. 1985. Limnology of Big Lake, southcentral Alaska, 1983-1984. U.S. Geological Survey.
- Woods, P.F. 1986. Deep-lying chloropyll maxima at Big Lake: Implications for trophic state classification of Alaska lakes. In Proceedings: Cold water hydrology symposium. Amer. Water Resources Assoc. 195-199. Bethesda, MD. 29811.

Hopefully III get a few of these to preserve in tornalin and eventually send them to you. They also have to Arctic The Kens Net / W: 14 1. L. Retage. Dint Know if they'll let me have my of those but will try to get a comple preserved in to making Last Coll I stashed a caroc 21 a char Take on the retage I planed to get a 5 wed sample by fishing this spring, un feetunately I didn't deel good most of the mostle of may, when stay were in shallow water, and missed most of the tishing season, when I dod tost I dodail love much to show to, it. 6. ve my regards to B. Il Mc Connell. Cheers. Teck .



JACK & BETTY DEAN PO Box 428, Sterling, AK 99672

Dr. Robert Behnke 2000 3429 East Prospect Romed Ft. Collins, CO 80525

33^{USA}

P.S. I didn't get to say findling to mullon but he will be missed. Towellari - Wideo TV Toroneta marine, raker of courting of Nov-Picolo chigos

Subject: Char

Date: Mon, 13 Dec 1999 16:36:53 -0900

From: "Fred Decicco" < fred_decicco@fishgame.state.ak.us>

To: <songbird@alaska.net>

Hi Jack,

Thank you for the photos and copy of your letter to Behnke. It is good to hear that somebody down in south central Alaska is interested in char. By the way, pass on my regards to Larry Larson if you see him. The fish in the canoe is quite spectacular. I haven't seen too many Arctic char that close to spawning. We caught some anadromous S. taranetzi over in Chukotka in 1997. They were a rose color, but not as bright as the ones you show in the canoe. We also caught some lake resident traraneti that were bright golden-orange. I've caught small sexually mature lake resident char over there and up near Nome in high altitude lakes in the Kigluaik Mountains. Some dwarf populations tend not to loose par marks throughout their life. Some of these populations may be present in the same lakes as other "normal" char populations. This may be what is going on in Cooper Lake. You mention "golden fin" Dollies. Are these only in rivers? or are some in Lakes? If rivers, they are likely small resident Dolly Varden. If in lakes, maybe Arctic char. I had heard about he golden fin char of Idavain Lake down in the Naknek drainage, and was able to visit it this summer. caught two char, but both were Arcitc char, and rather typical small sexually mature males.

I will get back to you later,

Ihave to run now.

Thanks again.

Oh, I think that Terry Johnson is now in Sitka. He works for the Marine Advisory Program and was in Dillingham for a number of years. Best wishes,

. 13

Fred DeCicco



This large, about 12 lbs, Dretie char was taken in Kagati Lake at the headwaters of the Kanektok River that flows into Bristol By about 50 modes east of the Kuskowim River.

This lake also has lake trout. Durit
Dolly Varden occur in small head water
streems in the mountains above Kapati
Lake. Duralromus and possibly resident
Dolly Varden are abundant in the Kapake
River.

Late Sept. 1980's.



or Arctic char cought on the spanning grounds in Dralle Lalle on the Kensi Nati Wildlife Refuse, Alaska Lete Oct. 1998. This fish weight about 2 lbs. Jack Dean

H: Bob.

Here's an Email I received from Fral Decicco in Fairbanks,

there are two photos of male Arctize char. The big Arctize char shows the same gulden color as most of the presponency of Arctice char I catch in the fall from latter on the Kenzi Nat'l hild like Reluge. The smaller of Arctice char is not the typical color I see, This one was chaght of a spawning area I vie to cated in Drake Latte.

I've been gothering the Arctic che.

1. terstace I can access here in Alasker
I'm reading Charos, ed. tall by E. K. Balon.

In your paper (page 456) Cheveshrers
is mentioned as being able to completely
separate DOV from AKC by the number
of spots below the lateral lare. Do
you know what Kniel of numbers
Chereshrer had for both species, Bob?
I'm also carious about the number

of spots his taranetzi char had below the Isteral line and how they differed from Davand ARC, Its been unusually cold here, -12° P hard Il days of 3000 or below this winter and we still have Jankery and tel to get thous I sat a copy of the letter on Cooper but heven't heard from Lake to Mullan still getting out hunting. him. Hope he's



Jack & Betty Dean P.O. Box 428 Sterling, AK 99672-0428



Dr. Robert Behnke 3429 E. Prospect Road Ft. Collins, Co 80525

(evznidoni Mallen - Quitas - Zrzz yerrow fin heranidor! malms to orall w

The gray ches from Dolly Varden is a passe. I asked the guy who conght it it it had a prink Dir bladder. He gave it away before cleaning it so we don't know, There are Duly Varden in the Surenson River natersbeard but only a ten and they seem to preter the running neter of the river At Cooper hille there appear to he two color phises. One cale phase is gray. They are 50 gray theyie been cilled Lalle trout in the past, they access in both lasper and ther takes. Two I footed at this summer from Char hilles were getting really to spany in the tall but still retained the gray color. he don't know if the gray ones spann with the normal school ones in either lake. The also Seen the gray cuter phase in the Bristal Bry area. The never cought a grey color phase Arctic char in a Swanson River lake. The fish in the lower helf of the photo is a Eencle spanner from Dolly Verden Lille. She appears to have pair marks after being trozen. I'll have to talle another look at the possibility of dwarf chat in Dolly Varden halle. we shipped off another 40 alpines and malme genetic

Samples to Canada. They more have about 80 samples from Alaske.

northern pike population. Pike are known to be effective predators of other fis other concern is the impact from increased eutrophication as the human presen lake shore increases.

The primary cause for concern in the Swanson River watershed is the potential hazardous material spills associated with the oil and gas industry. Fortunately watershed is in public ownership within Captain Cook State Park and the Kena Wildlife Refuge. Many of the Arctic char lakes are further protected by wilder they are within the Swan Lake and Swanson River Canoe Systems.

At Cooper Lake the primary concern is the impact of water level fluctuations for generation. Water level fluctuations can affect a lake spawning species such as Fluctuating water levels also reduce the productivity of benthic invertebrates the of the food for the char. Another concern is the stocking of non-indigenous species sport fishery that may have been degraded by water level fluctuations.

The lakes on the southwestern side of Kodiak Island are in a roadless area that reached by aircraft. Since most of these lakes are within the Kodiak National the protection of the native Arctic char populations should be assured. Habitat populations have been manipulated, however, to benefit the sockeye salmon confidence activities have included fish way construction, lake fertilization and soci stocking. The impacts of these alterations on resident fish populations have no

Hi Bob,

On the pink salmon! These are the

3 lakes at the headwaters of the Moose
River that I recall had fink salmen population.

Pil have to have another look at the

data sheets to get an accurate idea an

sizes. I'll try to get to town tomorrow to do that.

Loon habe, 213'elevation, 604 acres, 70 feed

max depth. when I've been on this lake its

outlet was blocked by a beaver dam and there

was no surface them leaving the lake. At

times it obviously drains to the south into

the hest Fork of the Moose River, Longhose

suckers are present and may be spanning

Rock Lake, 215 elevation, 330 acres, 51 teet deep, 51 alkalinity. This take also supports long nose suckers. This takes outlet was flowing about 1 c. f.s. last time I was here. There is no thing, except beaver dams, to stop pink no thing, except beaver dams, to stop pink salmon from coming er going, 60°39'-180'38'

Successfully on send or gravel sharelines.

Swen Lela, 210 elevation, 803 acres, 48 teet deep, 75 alkalinity. This lake has a permanent outlet to the south. It normally flows and about 0.5 to 1 2.1.5. Sockeye 521 mon are able to reach the late, usually several hundred of them, and spawn successfully. Rainbow trout are present in Good numbers. Anglers have reported catching them in May around an underduster spring. This lake is more productive than most long Retage lakes

Betty Dean

From: Marla McPherson <marla@inletkeeper.org>

To: <marla@inletkeeper.org>

Sent: Monday, November 20, 2000 8:40 AM

Subject: FW: sample email announcing reports and web page, please give your feedback

I am writing to you to let you know of a few exciting developments at Cook Inlet Keeper.

1) Keeper has released two new and important water quality reports which can be downloaded from Cook Inlet Keeper's web page (more info below);

2) You can now, for the first time, view water quality data on Keeper's web page

(http://wwwinletkeeper.org/cemp/cempd1.asp), and

3) Cook Inlet Keeper's office is moving to the Center for Alaskan Coastal Studies building at 708 Smoky Bay Way (across the parking lot from the Lakeside Mall).

For more information, read below:

1) Water Quality Reports

Cook Inlet Keeper and the Homer Soil and Water Conservation District announce the release of two new reports on water quality in lower Kenai Peninsula streams and bays. "A Preliminary Water Quality Assessment of Lower Kenai Peninsula Salmon-bearing Streams" presents twenty-one months of professionally collected water quality data from the Anchor River, Stariski Creek, Deep Creek and the Ninilchik River. The "Cook Inlet Citizens' Environmental Monitoring Project Annual Water Quality Status Report" presents and discusses water quality information collected by citizen volunteers during more than 800 site visits in the Kachemak Bay watershed between November 1996 and April 2000 (download zipped MS Word 2000 documents of the citizen's report:

(http://www.inletkeeper.org/cemp/keeper%20cemp%20report.zip or the Lower Kenai Peninsula Watershed Health project report: http://www.inletkeeper.org/319%20Reports/summer%202000%20keeper%20lkpwhp%20report.zip).

In 1996, Cook Inlet Keeper established Alaska's first comprehensive citizen-based water quality monitoring program. Since that time, Keeper has trained more than 160 volunteers to test water quality in the Kachemak Bay area. More recently, Keeper has partnered with other groups to foster and support similar efforts in Anchorage, the Mat-Su Valley and on the Kenai River. In addition to this effort, Keeper and the Homer Soil and Water Conservation District conduct professional level water quality sampling on important lower Kenai Peninsula salmon streams.

2) Water Quality Data Avaialable Online

2 gets 2 moderate algal bloom in the summer. There's Nothing except beaver dons, to prevent pink salmen from baving this lake. This take drains into moose here take. Moose hore L. is drained by moose hore Creek, its the moose River. I caught a tunny looking rainboun front, probably a pink salmen, here on 9/2/88 that weight 11 ownces. 60°40'-150°321

You can see on the enclosed hep that the 3 lakes are neighbors.

Hungry Lake. This little lake is in the Suan son River watershed the First caught a 8-9" pink salmen in this lake this year. Its in formaline at their a foliace 195 clevation, bo acres, 10 text max depth. This lake supports a good rain boun trout population. I was at this lake only once, At the fine its outlet was flowing about 0.1 c.f.s. to the Suanson River. This is the only lake in the Suanson River where fresh water Pink salmen have been reported. Kokance have been reported from to Swanson River lakes. Its possible they have been misidentified in one or more of these lakes, 60°44' - 150°46'

Its possible pink selmon survived the last glaciation in either the Swinsom or mouse River water shal. I believe the Arctic char survived the last glaciation in the Swenson River water and somewhere in the Kenzi River hater shall. The scattere sal mon in the Kenzi River hater shall the scattere sal mon in the Russian are reported to be different genetically from all other Could Talet scattered salmon stacks suggesting they survived the last glaciation here was the kenzi peninsula, here also be the durant long nose sallers in one part of the swinson River water shall to my hose sallers in Alaska, feshers we had four species, pat least swive the last glaciation here on the Kenzi Peninsula, late trout might also be allowed by that lists

I should mention that there may also be a fair amount of missidentification on pink Selmon here. Rock, Loon and Suan Lalles were all originally said to contain Kolleree, not pink salmon, I sent a secsonal biotech out to gill not these three lakes, He though they here pink salmon but identified them as Kokaree It we suit until Rae Baxter got involved that they were identified as pink salmon I would suggest other you take a look at the pink salmon from Hungry Libe, It's in tornshing and I could soul it whenever you've versly to it.

Now about Aretic char and spots, Here are
three photo's of a mature male I cought in
Fish take this tall, It you count the spots
and heal this are has about 50 spots on or
helow the lateral line. This char has unusually
large spots. Every local Aretic char that Thine
a decent photo of has at least 50 spots below
the lateral line. The table in my report ion spots,
is abviously wrong. It was based on into in
Delacy and montons report on Aretic char in
Karluk balle.

The photos of this Fish Lake Arctic char we's placed in our freezer. Betwee freezing it was a golden orange (yellow) caler like the photo a golden orange (yellow) caler like the photo me that you exclice. This char turned dark on the dorsal surface after freezing. It struck me that the golden caler on the back is of more that the golden caler on the back is of more the cent origin and the colors, shown above are recent origin and the colors, shown above are not found the colors. The European char photos I we have a faction char. The European char photos I we have a faction of a color of and the belly,

. 34 32

Swanson River watershed colonized adjacent lakes in the Moose ls? At one time the Swanson River was a tributary of the Kenai plonize the Moose River from the Kenai River? What species of tic char? Can humans become infected by eating undercooked narvest levels from these nutrient poor lakes?

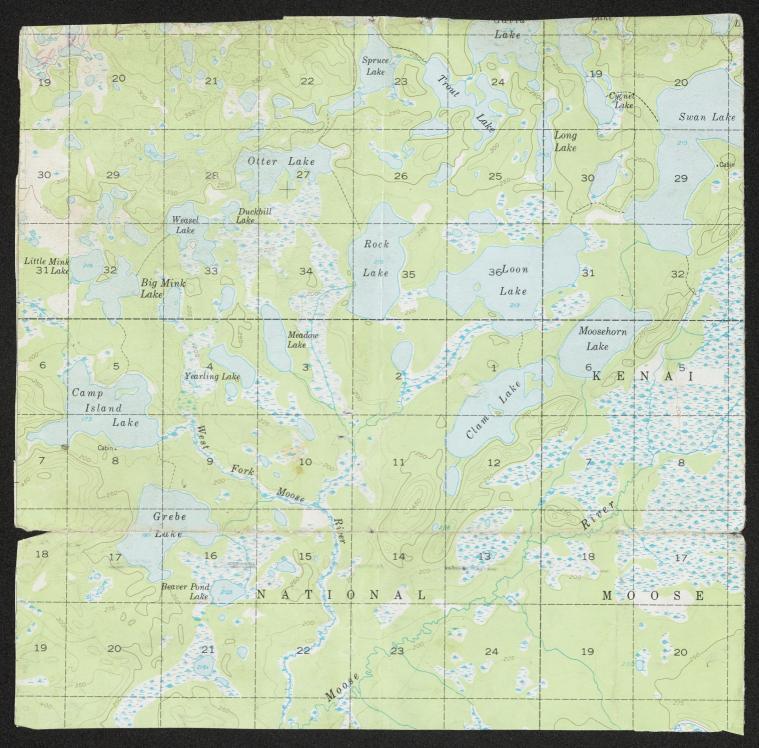
ange sculpins get into Cooper Lake? Are Arctic char present in River watershed? How many species of char occur in Cooper II forms of Arctic char are present in this lake? If dwarf Arctic hy aren't they present in other deep lakes in southcentral Alaska? It char spawn in Cooper Lake? What impacts are water level voirs fish and aquatic invertebrates?

and support Arctic char populations? Are dwarf Arctic char eper lakes? Are the Kodiak char genetically different from the rea?

le southcentral Taranets char to populations in the Bristol Bay a? Which of the other recognized subspecies of Arctic char is the ted to?

Concerns

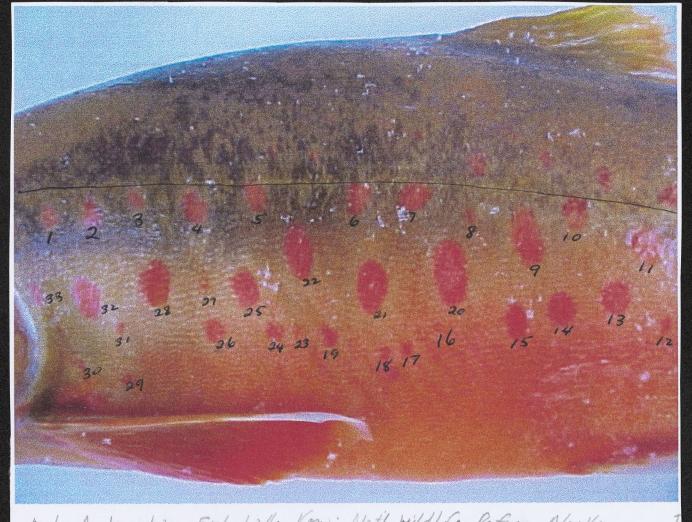
ake One is about the potential invest





Head of a male Arctic char spanner from Fish Lalla Kenzi Wat'l Wildlife Refuge, Alaska 10/19/00

photo b John I.



Male Arctic char, Fish Lalle, Kenni Natt Wildl. Le Relige, Alaska 10/19/00



Mature mele Arctiz char from
Fish Lalle, Kenai Nat'l Wildlife Retuge,
Alaska. 10/19/00 (zught by Jack Dean
2.06 pounds

Tohn Iverson



JACK & BETTY DEAN P.O. Box 472 • Sterling, AK 99672



U.S. POSTAGE

Rock, Swan Dr. Robert Behnke

Hurry L. Swinson R.

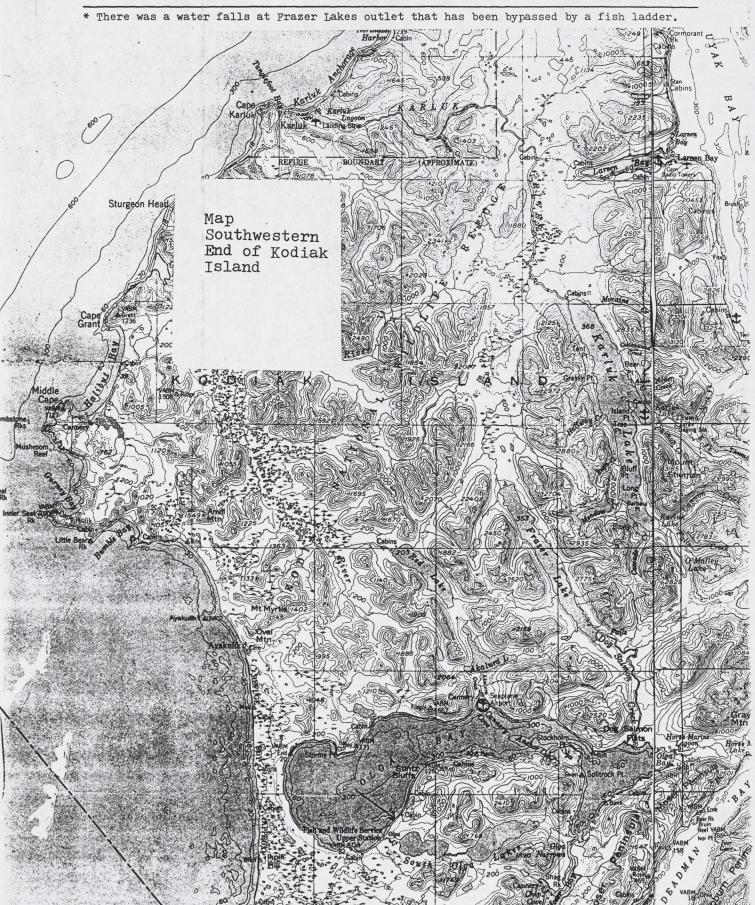
Department of Fishery and Wildlife Biology Colorado State University Fort Collins, Co 80523-1474

Der Bob,

Just a note to let you know that
the U.S. P.W.S. took a more indepth look
at the so called Pink Salmon from
Hungry Lake on the Kensi Nat'l wildlife
Retuge. They counted lateral line scales,
gill reliers and pylonic cases and determined
that the tosh was actually a Socilege salmon.

A Not'l Park Service technician at Kenzi Fiords Net'l Park believes Heyre discovered the sharelines of an ice demmed lake on the Resurrection River. Lest week the local Glacial Geologist (Dr. Reger) and returned ADF+6 Fishery Bidesist and I went over to Seward to look at their evidence. According to their (UPS) evidence the talke would have crested at about 900 feet above see level. At that level the ice dammed take could have had an outlet to the north towards Upper Russian Lake and the Russian Rivere Field work will have to be undertaken to verity their tendings. Since the old shareline is overgrown with alders and on a steep monatain side helizapte access will be reguired to reach the ever with the necessary

1 Table 10. Known Arctic char lakes on Kodiak Island. Heaviest Surface Conduct-Maximum Arctic Land-Geographical Lake depth ivity mhos Elevation acres char locked location 57°15'N-154°10'W 57°23'N-154°03'W 4,100 9,728 193' 413' 52 71 353' 365' Frazer Karluk 3.19 Lbs. No 13,828 acres Total * There was a water falls at Frazer Lakes outlet that has been bypassed by a fish ladder.



equipment to dog into the old marries. I'll probably be a while before me get 2 veritication. The seday st (Dre leger) reviewed my report and make a number of suggestions. The been busy revising it and just completed The letest version today. I don't plan any two ther world in it until we get the vesults back from Canada on their genetic determinations Hope tally next summer well get a chance to sample the deep waters of Goper halle for a benthic char and also gill not upper Russian Labe to see of their are any alpinus in What lake. hell be leaving here on Jon, 3. he exteh a ferry at Seward to transport us to Junean and up to Hoines, hell wetch eigles for 2 days a Haines and catch another ferry & Bellingham, here ordered a new truck this well pick up in Seattle, Then its on to Colorado to visite and dids and friends. Fren there will heard south, hope talky to the pan handle of Florida for a month a two. By late March we should be heading north again and return to Sterling by late April. Table care Bub and Merry Christmes, Facto

* symp. D.V. - late Apri- return Colo. class office Apr. 95 letter Komment on Fish right. Plan for Kensi No. T. Wildlip Refuge notageny stocking -Apr. 97 - sockey sohmen stocking in tertunem to July 97 - comments EA- for Tustomens le Avg. 97 - fratter unt. 60 Euripemental ong out what happened? with Randy Railey.

Why vocample, agriculty incomplet

Prople nice To Top in bones.

Jack & Betty Dean PO Box 428 Sterling AK 99672-0428



Dr. Robert Behnke Dep't of Fishery and Wildlife Bidogy Colorado State University Ft. Collins, CO 80523-1474

and but offers on they a so he where Tr

Hi Bob,

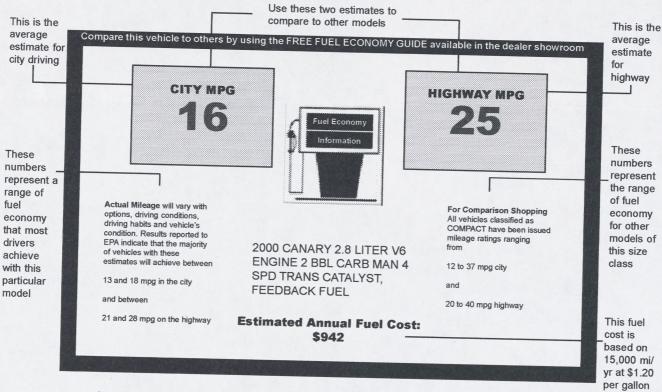
Ree Baxter, as I remember, worked for Ind widelite the U.S. Fish (Fumble and woobbe) Service in the 1950's. I believe he was stationed in Anchorage, when Alaski became a state in 1959 he apparently transferred, For many years he was a sport tishery biologist stationed at Bethel he got involved with him in 1986 when we were writing the toshery Sections of the Yorkon Delta Now Retuge plan to the Flus. He gave as access to his notes and rew toshery data. He was guite helpful.

One thing I noticed was that all his summer sea sonal assistants neve temples. Since I had a tendency to him women I asked him about this, the sail they were more fun to world with them the guys. I could relate to that.

Another thing that impressed me was that he apparently ner good at operating an a shoe string. If he wanted to float a viver from the headneters he would pull an aluminum boat over the snow the winter before and story of it. The next summer he would set thoun in hithin walking distance at his boat for his that tip. He was reported to do much at his summer tield work bore footal.

SAMPLE FUEL ECONOMY LABEL

(Attached to New Vehicle Window)



Check the fuel economy label on the vehicle at the dealer showroom for its specific fuel economy (mpg) ratings. The ratings may vary slightly from the values in this Guide because of engine and fuel system differences not listed here.

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> June 2000 Second Edition

There is also a story of him traveling from Bethel to Senttle in a 15 food boot with a 500 lo hip, outboard motor when he retired him and his nite moved to Homer. He was shest and Killed there his Sun over a disagreement about money, As I remember he got several fresh witer pink salmon from us too taxonomiz andysis, There may be more in formation available of the FWS can find it in their office, As I recall we had 6 .- 8 freshwater pink salmen in formalin. One of my predicessors threw them out, The see sonal biologist working for me cought fresh nates in three lakes as I top of the moore know water shed, No me has done any world on these lakes since 1986. he have a trest water pink solmen from a small talle in the middle of the Suapson Rive- oil tield. Its in form 2lon. No counts have been done on it, he also have several Arctic cher in formalin to you when your ready for them, They are from upper Tazimine Lake in Lake Clark not preserve,

I tooked 24 one of the Tazimina chan It appeared to be a dust to the 35 gill values and 48 pg lone caeca. The gill values were pointed but only about 43 od 25 long 25 our Kenas Peninsula

Several months ago you sent into on the Tavanet's Char tran Siberia that included counts of spots below the lateral line.

The highest number reported from Asia wis 44 spots. I countest a char from the Kono, Retuse from photos, Both tish had over 50 spots below the lateral line. Here a photo of a preparing nate Aratic char from Dolly Varden Lake on the Kensi Nat! hildlike Retuse. The lateral line is not apparent in this photo but you can see there are over 50 spots below wheder the lateral line should be

You a Joe Tomelleri should make a great team. He sent me a print of a broall trant that looks real enough to table a Ely, I used to appreciate the drawings by the artist whose world appeared in the I we Fish and Fishing books the was the best in the business in the 1950's but Tomelleri is the best Tie Seen, what a gift he has. He; also an accomplished fishermen.

Will have here book on Front and Selmon in

In hoping we can get in another gill netting effort an Cooper Like before in treezes over this winter. No one has ever set a gill net in water over 30 feet deep and I'm curious

proceeded more rapidly than could have been expected.

The second reason I believe we were successful was the fact that the Misfits squad had more than its fair share of warriors. My definition of a warrior is a combat soldier who is aggressive and courageous in battle. Along with that is the combat knowledge and confidence in his ability to use his weapons effectively. Most American infantry squads included no more than one or two warriors. When Floyd Pope was still with us, our squad was half warriors. We still had more warriors than any other squad we were aware of when Pope transferred out to take over another squad.

The rest of the men in the Misfits could be described as soldiers. These men would do as well as they could in combat but would not "stick their neck out." Most of the American infantrymen in Korea were in this category.

There was also a category of men who did not perform or performed poorly in combat. Fortunately they were in the minority. Their ineffectiveness may have been caused by overwhelming fear, lack of self confidence, or lack of expertise with their weapons. It could also have happened to some men who had little confidence in leaders, squad mates or were conscientious objectors.

Any combat veteran is well aware of the third reason the Misfits were successful. We were just damn lucky! We were fortunate to be in the right place at the right time. In combat that is often the difference between victory and defeat or life and death.

A final reason for our success and survival may have been Mrs. Musella's prayers. In her effort to protect her son, she may have also protected all but one of the Misfits.

When our company rotated back to Hill 820, I was sent to the rear to get a pair of glasses. We stopped at a rear echelon unit on the way south. I had an urgent need to take a leak after the long truck ride. I couldn't see the sign for the latrine without my glasses and took a good piss right in the unit area. A fat, rear echelon, Captain saw me and read me the riot act. When he was through chewing me out, he showed me where the latrine was but by then I didn't need it.

I traveled south to the 7th Division Medical Clearing Company for the second time. This time a corporal tested my eyes and made new glasses for me. He did an excellent job. I hitchhiked back to the front to rejoin the unit. At the company rear they told me I'd been in Korea long enough to qualify for five days of rest and relaxation. The next day I joined a group of enlisted men being flown to Japan in a Curtiss twin engine C-46. The army outfitted us with dress khakis and turned us loose in the Tokyo area. For most enlisted men, this was anything but rest and relaxation. It was usually five days of wine, women and song and I was no exception.

When I returned from Japan, the 3rd Battalion had returned to our old positions on the Main Line of Resistance (MLR) near Hill 1118. 8th Army named this MLR, the Wyoming Line.

You would probably assume that the MLR was a continuous defended line across the 155 mile wide Korean Peninsula. A continuous line probably existed in the flatter western side of Korea but a continuous MLR did not exist in the higher

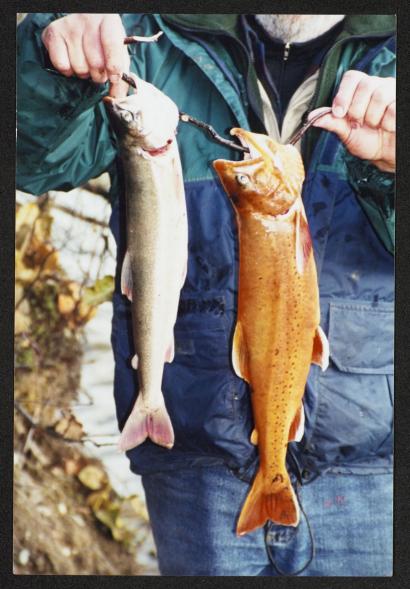
it there might be a benthie chot present in deep water. I still have some unfilled genetic sample to thes if he can set out to Cooper Lalle. I tried to get the Ataska Fish and Game Depit to test wet upper Russian Lalle to Dratic chan They would not let us als any gill netting but doct they in separal angless who caught only rain some trout in his hours of fishing. The supervisor who rixed our gill hetting will be leaving so prehips well get a good sample from upper fussion laste in 2001.

Betty and I are planning to leave Alask's in Invary the a break we will probably be in Coloredo by late Jeaning a early February.

Sounds like your doing your share of fishing, Bub. I doso had a gover year northing on my fish life list, Added 3 new species.

Fir the year I recorded 201 tish or 0,5 pounds or more take a 44 successful tishing trips. The high light has a day on a river near Corpora Alaska where I caught 14 silversalmon this Collectorely neighble nearly 146 pounds, They were me out. I could have caught more but has two tral to handle any more that day.

Talls Cong Fach



Arctic char from Dolly Varden
Lake - Venei Nat'l Wildlike Retuge
Mid Oct 2,000
Cought by John Nelson
Soldation



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