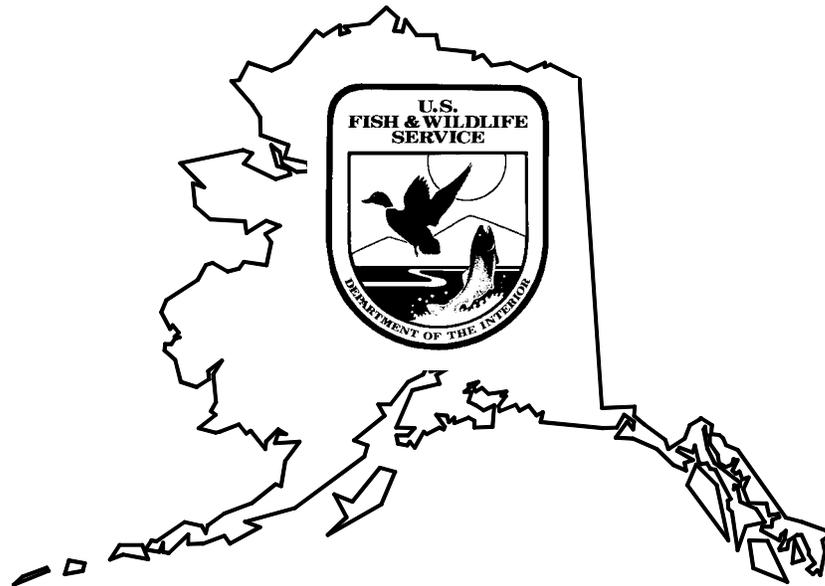


Genetic Baseline Collections Summary



May 1999

Region 7
U.S. Fish and Wildlife Service ! Department of the Interior

Mission of the Fish Genetics Laboratory

The mission of the Fish Genetics Laboratory is to provide the necessary genetics expertise and support to permit sound stewardship of Alaska fishery resources, including conservation of the natural diversity of wild fish populations and aquatic ecosystems. Responsibilities include providing U.S. Fish and Wildlife Service leadership for conservation of genetic resources, particularly Pacific salmon stocks; development and implementation of genetic stock identification studies to delineate stocks for use in fisheries management and allocation decisions; evaluations of genetic impacts resulting from stock introductions, exploitation, and other activities; monitoring stocks for genetic change; coordination of genetic issues within and outside the Service; and conducting outreach activities that promote the importance of maintaining genetic diversity.

Nondiscrimination Clause

The U.S. Department of Interior prohibits discrimination in programs on the basis of race, color, national origin, religion, sex, age, or disability. If you believe that you have been discriminated against in any program, activity, or facility operated by the U.S. Fish and Wildlife Service or if you desire further information please write to:

U.S. Department of the Interior
Office for Equal Opportunity
1849 C Street, NW
Washington, D.C. 20240

Genetic Baseline Collections Summary

Blair Flannery
and
William J. Spearman



Fish Genetics Laboratory
U.S. Fish and Wildlife Service
1011 East Tudor Road
Anchorage, Alaska 99503

Genetic Baseline Collections Summary

Blair Flannery and William J. Spearman
Fish Genetics Laboratory, U.S. Fish and Wildlife Service
1011 East Tudor Road, Anchorage, Alaska 99503

Genetic baseline collections maintained by the Fish Genetics Laboratory are summarized by species, geographic region, location, and year. Each collection represents a spawning aggregate of fish as closely as possible. Samples are maintained in individually numbered vials at #-20°C, and consist of tissue, such as fin, and/or genomic DNA.

The following species and geographic locations are represented:

Species

| | |
|--------------------|---------------------------------|
| humpback whitefish | <i>Coregonus pidschian</i> |
| northern pike | <i>Esox lucius</i> |
| chum salmon | <i>Oncorhynchus keta</i> |
| coho salmon | <i>Oncorhynchus kisutch</i> |
| rainbow trout | <i>Oncorhynchus mykiss</i> |
| sockeye salmon | <i>Oncorhynchus nerka</i> |
| chinook salmon | <i>Oncorhynchus tshawytscha</i> |
| arctic char | <i>Salvelinus alpinus</i> |
| Dolly Varden | <i>Salvelinus malma</i> |
| sheefish (inconnu) | <i>Stenodus leucichthys</i> |
| grayling | <i>Thymallus arcticus</i> |

Geographic Locations

| | |
|------------------|----------------------|
| Alaska: | North Slope |
| Aleutian Islands | Prince William Sound |
| Bristol Bay | SE Alaska |
| Alaska Peninsula | Yukon River |
| Cook Inlet | Other state: |
| Copper River | Washington |
| Kodiak | Other countries: |
| Kuskokwim | Canada |
| Norton Sound | Russia |

Some tissues are available in limited quantities for scientific use. For more information on availability, contact the authors.

Genetic Baseline Collections Summary

Fish Genetics Laboratory
Region 7, U.S. Fish & Wildlife Service



| RIVER | YEAR |
|---|------|
| humpback whitefish <i>Coregonus pidschian</i> | |
| Yukon River | |
| Fish Lake | 98 |
| Kalutna River | 98 |
| Last Tetlin River | 98 |
| Moose Creek | 98 |
| Ten Mile Lake | 98 |
| northern pike <i>Esox lucius</i> | |
| SE Alaska | |
| Big Pine Lake | 98 |
| Yukon River | |
| Innoko River | 98 |
| chinook salmon <i>Oncorhynchus tshawytscha</i> | |
| Bristol Bay | |
| Kasigluk River | 90 |
| Kwethluk River | 90 |
| Cook Inlet | |
| Benjamin Creek | 91 |
| Chuitna River | 92 |
| Kasilof River | 91 |
| Kasilof River | 92 |
| Kenai River | 90 |
| Locy/Chuitt | 92 |
| Montana Creek | 91 |
| Sheep Creek | 91 |
| Susitna River | 91 |
| Troublesome Creek | 91 |
| Willow Creek | 91 |

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| RIVER | YEAR |
|---|------|
| chinook salmon <i>Oncorhynchus tshawytscha</i> | |
| Kodiak | |
| Ayakulik River | 97 |
| Karluk River | 97 |
| Russia | |
| Bolshaya River | 91 |
| Kamchatka River | 91 |
| Vorovskaya River | 91 |
| Washington State | |
| Lyons Ferry | 97 |
| Priest Rapids | 97 |
| Yukon River | |
| Beaver Creek | 97 |
| California Creek | 96 |
| Klondike River | 90 |
| McQuesten River | 90 |
| Stony Creek | 90 |
| Takhini River | 90 |
| Tolstoi Creek | 96 |

chum salmon *Oncorhynchus keta*

| | |
|-------------------------|----|
| Alaska Peninsula | |
| Joshua Green | 95 |
| Russia | |
| Anadyr River | 91 |
| Avacha River | 90 |
| Hairusova River | 90 |
| Kamchatka River | 90 |
| Kamchatka River | 91 |
| Kol River | 91 |
| Magadan River | 91 |

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| RIVER | YEAR |
|---|------|
| chum salmon <i>Oncorhynchus keta</i> | |
| Russia | |
| Ola River | 90 |
| Tauy River | 90 |
| Vorovskaya River | 91 |
| SE Alaska | |
| Saltery River | 91 |
| W. Crawfish Inlet | 93 |
| Yukon River | |
| Anvik River | 88 |
| Big Creek | 92 |
| Black River | 95 |
| California Creek | 96 |
| California Creek | 97 |
| Chandalar River | 89 |
| Chena River | 97 |
| Chulinak River | 89 |
| Dakli River | 92 |
| Delta River | 89 |
| Delta River | 90 |
| Fishing Branch River | 89 |
| Fishing Branch River | 92 |
| Gisasa River | 88 |
| Kaltag River | 92 |
| Kluane River | 87 |
| Kluane River | 92 |
| Koyukuk River | 90 |
| Minto Slough | 89 |
| Nulato River, South Fork | 87 |
| Salcha River | 97 |
| Sheenjek River | 88 |
| Sheenjek River | 89 |
| South Fork Koyukuk | 96 |
| Tatchun River | 87 |
| Tatchun River | 92 |

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| RIVER | YEAR |
|--|------|
| chum salmon <i>Oncorhynchus keta</i> | |
| Yukon River | |
| Teslin River | 92 |
| Toklat River | 87 |
| Toklat River | 90 |
| Tolstoi Creek | 96 |
| Tolstoi Creek | 97 |
| Tozitna River | 92 |
| coho salmon <i>Oncorhynchus kisutch</i> | |
| Alaska Peninsula | |
| Camp Creek | 97 |
| Clear Creek | 97 |
| Frosty Creek | 98 |
| Gertrude Creek | 97 |
| Joshua Green | 95 |
| Kametlook River | 97 |
| Kametlook River | 98 |
| King Salmon River | 97 |
| Mink Creek | 97 |
| Mortenson Creek | 98 |
| Mossy Creek | 97 |
| Russell Creek | 98 |
| Sandy Creek | 97 |
| Stapp Creek | 98 |
| Whale Mountain Creek | 97 |
| Aleutian Islands | |
| Finger Creek | 97 |
| Nav-Fac Creek | 97 |
| White Alice Creek | 97 |
| Bristol Bay | |
| Alagnak River | 97 |
| Arolik River | 97 |

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| RIVER | YEAR |
|--|------|
| coho salmon <i>Oncorhynchus kisutch</i> | |
| Bristol Bay | |
| Big Creek | 97 |
| Gechiak Creek | 97 |
| Goodnews River | 97 |
| Goodnews River | 98 |
| Kanektok River | 98 |
| King Salmon Creek | 97 |
| Kulukak River | 97 |
| Matogak River | 97 |
| Ongivinuk Creek | 97 |
| Osviak River | 97 |
| Pungokepuk Creek | 97 |
| Cook Inlet | |
| 3 mile Creek | 92 |
| Bear Valley | 97 |
| Chuitna River | 92 |
| Crescent Lake | 98 |
| Explorer Creek | 97 |
| Granite Stream | 97 |
| Kenai River | 94 |
| Kenai River | 99 |
| Lewis River | 92 |
| Moose River | 98 |
| Quartz Creek | 98 |
| Russian River | 95 |
| Russian River | 96 |
| Slikok Creek | 97 |
| South Fork Snow River | 98 |
| Sucker Creek | 97 |
| Tern Lake | 95 |
| Tern Lake Outlet | 98 |
| Williwaw Stream | 97 |
| Willow Pond | 97 |

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| RIVER | YEAR |
|--|------|
| coho salmon <i>Oncorhynchus kisutch</i> | |
| Kodiak | |
| Akalura River | 97 |
| Ayakulik River | 97 |
| Bear Creek | 97 |
| Buskin River | 98 |
| Midway River | 97 |
| Paul's Lake | 97 |
| Spiridon River | 98 |
| Zachar River | 97 |
| Kuskokwim | |
| Arolik River | 98 |
| Kisaralik River | 97 |
| Kogrukluuk River | 98 |
| Kwethluk River | 98 |
| Norton Sound | |
| Nome River | 98 |
| Prince William Sound | |
| Billy's Hole Lake | 97 |
| Billy's Hole Lake | 98 |
| Camp Creek | 98 |
| Gunboat Streams | 97 |
| Gunboat Streams | 98 |
| Otter Creek | 97 |
| Otter Creek | 98 |
| Red Creek | 97 |
| Red Creek | 98 |
| Russia | |
| Avacha Bay | 90 |
| SE Alaska | |
| Indian River | 98 |

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| RIVER | YEAR |
|---|------|
| coho salmon <i>Oncorhynchus kisutch</i> | |
| SE Alaska | |
| Kadashan River | 98 |
| Margaret Creek | 97 |
| Ophir Creek | 97 |
| Pavlof River | 98 |
| Reflection Lake | 97 |
| Shotter Creek | 98 |
| Situk River | 98 |
| Yukon River | |
| Andreafsky River, East Fork | 98 |
| California Creek | 96 |
| California Creek | 97 |
| Delta Clearwater | 97 |
| Fishing Branch River | 98 |
| Illinois Creek | 96 |
| Illinois Creek | 97 |
| Nenana River | 97 |
| Porcupine River | 98 |
| kokanee <i>Oncorhynchus nerka</i> | |
| Cook Inlet | |
| Hidden Lake | 92 |
| rainbow trout <i>Oncorhynchus mykiss</i> | |
| Bristol Bay | |
| Arolik River | 94 |
| Arolik River | 96 |
| Arolik River | 97 |
| Gechiak Creek | 87 |
| Gechiak Creek | 96 |
| Gechiak Creek | 97 |
| Negukthlik River | 90 |

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| RIVER | YEAR |
|---|------|
| rainbow trout <i>Oncorhynchus mykiss</i> | |
| Bristol Bay | |
| Negukthlik River | 97 |
| Ongivinuk Creek | 96 |
| Ongivinuk Creek | 97 |
| Osviak Creek | 96 |
| Osviak Creek | 97 |
| Pungokepuk Creek | 96 |
| Pungokepuk Creek | 97 |
| Cook Inlet | |
| Kenai River | 95 |
| Kenai River | 98 |
| Moose River | 98 |
| Russian River | 98 |
| Kuskokwim | |
| Kisaralik River | 97 |
| Kwethluk River | 98 |
| sockeye salmon <i>Oncorhynchus nerka</i> | |
| Alaska Peninsula | |
| Joshua Green | 95 |
| Aleutian Islands | |
| Adak Lake | 93 |
| Cook Inlet | |
| Bear Creek | 92 |
| Clear Creek | 92 |
| Crystal Creek | 92 |
| Glacier Flats Creek (E) | 92 |
| Glacier Flats Creek (L) | 92 |
| Glacier River Spring | 92 |
| Hidden Lake | 93 |

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| RIVER | YEAR |
|---|------|
| sockeye salmon <i>Oncorhynchus nerka</i> | |
| Cook Inlet | |
| Kasilof River | 92 |
| Kenai Lake | 92 |
| LM 25, Tustumena shore | 92 |
| LM 54, Tustumena shore | 92 |
| Moose Creek | 92 |
| Nikolai Creek | 92 |
| Point Lake Cove | 92 |
| Ptarmigan Creek | 92 |
| Russian River | 93 |
| Copper River | |
| Gulkana River | 92 |
| Kodiak | |
| Caida Beach | 95 |
| Connecticut Creek | 95 |
| Frazer Lake | 95 |
| Karluk Lake | 95 |
| Karluk River | 92 |
| Linda Creek | 95 |
| Midway Creek | 95 |
| O'Malley Beach | 95 |
| Outlet Beach | 95 |
| Pinnell Creek | 95 |
| Ruth River | 95 |
| Stumble Creek | 95 |
| Summit Creek | 95 |
| steelhead <i>Oncorhynchus mykiss</i> | |
| Alaska Peninsula | |
| Russell Creek | 98 |

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|---|------|
| steelhead <i>Oncorhynchus mykiss</i> | |
| Kodiak | |
| Ayakulik River | 97 |
| Karluk River | 97 |
| Sturgeon River | 98 |
| Dolly Varden <i>Salvelinus malma</i> | |
| Alaska Peninsula | |
| Becharof Lake | 98 |
| Frosty Creek | 98 |
| Russell Creek | 98 |
| Stopp Creek | 98 |
| Trout Creek | 98 |
| Aleutian Islands | |
| Clam Lagoon & Finger Bay | 98 |
| Bristol Bay | |
| Arolik River | 96 |
| Arolik River | 97 |
| Gechiak Creek | 96 |
| Gechiak Creek | 97 |
| Gertrude Creek | 90 |
| Izavieknik River | 97 |
| Kashaiak River | 97 |
| Kinegnak River | 97 |
| Kulukak River | 97 |
| Matogak River | 96 |
| Ongivinuk Creek | 96 |
| Ongivinuk Creek | 97 |
| Ongoke River | 96 |
| Ongoke River | 97 |
| Osviak Creek | 96 |
| Osviak Creek | 97 |
| Pungokepuk Creek | 96 |

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| RIVER | YEAR |
|--|------|
| Dolly Varden <i>Salvelinus malma</i> | |
| Bristol Bay | |
| Pungokepuk Creek | 97 |
| Togiak River | 97 |
| Trail Creek | 97 |
| Cook Inlet | |
| Bear Creek | 90 |
| Clear Creek | 90 |
| Cooper Creek | 98 |
| Glacier Creek | 90 |
| Quartz Creek | 98 |
| South Fork Snow River | 98 |
| arctic char <i>Salvelinus alpinus</i> | |
| Alaska Peninsula | |
| Becharof Lake | 98 |
| sheefish <i>Stenodus leucichthys</i> | |
| Canada | |
| Mackenzie | 93 |
| Norton Sound | |
| Kobuk River | 93 |
| Kobuk River | 94 |
| Selawik River | 93 |
| Selawik River | 94 |
| Yukon River | |
| Yukon River | 98 |

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| RIVER | YEAR |
|---|------|
| grayling <i>Thymallus arcticus</i> | |
| Alaska Peninsula | |
| Featherly Creek | 95 |
| Bristol Bay | |
| Arolik River | 95 |
| Arolik River | 96 |
| Arolik River | 97 |
| Gechiak Creek | 95 |
| Gechiak Creek | 96 |
| Gechiak Creek | 97 |
| Kemuk River | 95 |
| Kinegnak River | 97 |
| Ongivinuk Creek | 95 |
| Ongivinuk Creek | 96 |
| Ongivinuk Creek | 97 |
| Ongoke River | 96 |
| Osviak Creek | 96 |
| Osviak Creek | 97 |
| Pungokepuk Creek | 95 |
| Pungokepuk Creek | 96 |
| Pungokepuk Creek | 97 |
| Trail Creek | 97 |

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