



RESEARCH

IN SERVICE LABORATORIES

Progress on Projects, June 1954

FREEZING FISH AT SEA--NEW ENGLAND: The contract work for the restoration of the research trawler Delaware was completed. She is expected to sail on her first trip on June 28.

(Boston)

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COMPOSITION OF FISH: The proximate composition of several species of Alaska fish was determined. A summary of the data is presented in the following tables:

Table 1 - Composition of Miscellaneous Species of Alaska Fish

Species of Fish	Source of Sample	Date Collected	Number of Samples	Value	Characteristics of the Fish		Proximate Composition of the Edible Portion ^{1/}			
					Length Inches	Weight Pounds	Moisture Percent	Protein Percent	Oil Percent	Ash Percent
Whitefish (<i>Coregonus</i> sp.)	Birch Lake, near Fairbanks, Alaska	November 1953	27	Max.	20	3.1	80.6	18.8	10.8	1.3
				Min.	9.5	0.4	70.5	16.7	2.1	1.0
				Avg.	-	-	77.3	17.1	4.5	1.2
Whitefish (<i>Coregonus</i> sp.)	Lake Aleknagik, near Dillingham, Alaska	March 1954	4	Max.	17.5	1.6	76.7	19.5	5.2	1.3
				Min.	16	1.4	75.2	18.6	3.8	1.2
				Avg.	16.5	1.5	76.0	19.2	4.3	1.3
Dolly Varden trout (<i>Salvelinus malma</i>)	Lake Aleknagik, near Dillingham, Alaska	March 1954	18	Max.	20	3.1	79.5	21.1	10.7	1.3
				Min.	11.5	0.7	67.6	17.5	2.0	1.1
				Avg.	16.7	2.1	73.1	19.9	6.5	1.2
Northern pike (<i>Esox lucius</i>)	Minto Lakes, near Fairbanks, Alaska	August 1953	6	Max.	23.0	5.0	79.8	20.2	1.5	1.7
				Min.	19.5	2.8	77.6	18.9	0.9	1.1
				Avg.	21.7	3.7	78.5	19.7	1.2	1.3
Steelhead trout (<i>Salmo gairdnerii</i>)	Caught in sea water near Ketchikan, Alaska	August 1953	4	Max.	-	-	68.2	22.8	16.4	1.3
				Min.	-	-	62.8	20.8	8.6	1.2
				Avg.	-	-	66.3	22.0	11.7	1.3

^{1/}Edible portion for the whitefish, Dolly Varden trout, and steelhead trout was the skin-on fillet; that for the Northern pike was the skinless fillet.

Table 2 - Composition of Alaska Herring

Species of Fish	Source of Sample	Date Collected	Description of Test Sample	Proximate Composition of the Whole Herring			
				Moisture Percent	Protein Percent	Oil Percent	Ash Percent
Herring (<i>Clupea pallasii</i>)	Tongass Narrows, Ketchikan, Alaska	December 1953	Composite of 24 fish	69.0	16.5	12.8	2.5
		March 1954	Composite of 24 fish	73.9	16.4	8.0	2.7

(Seattle)

