

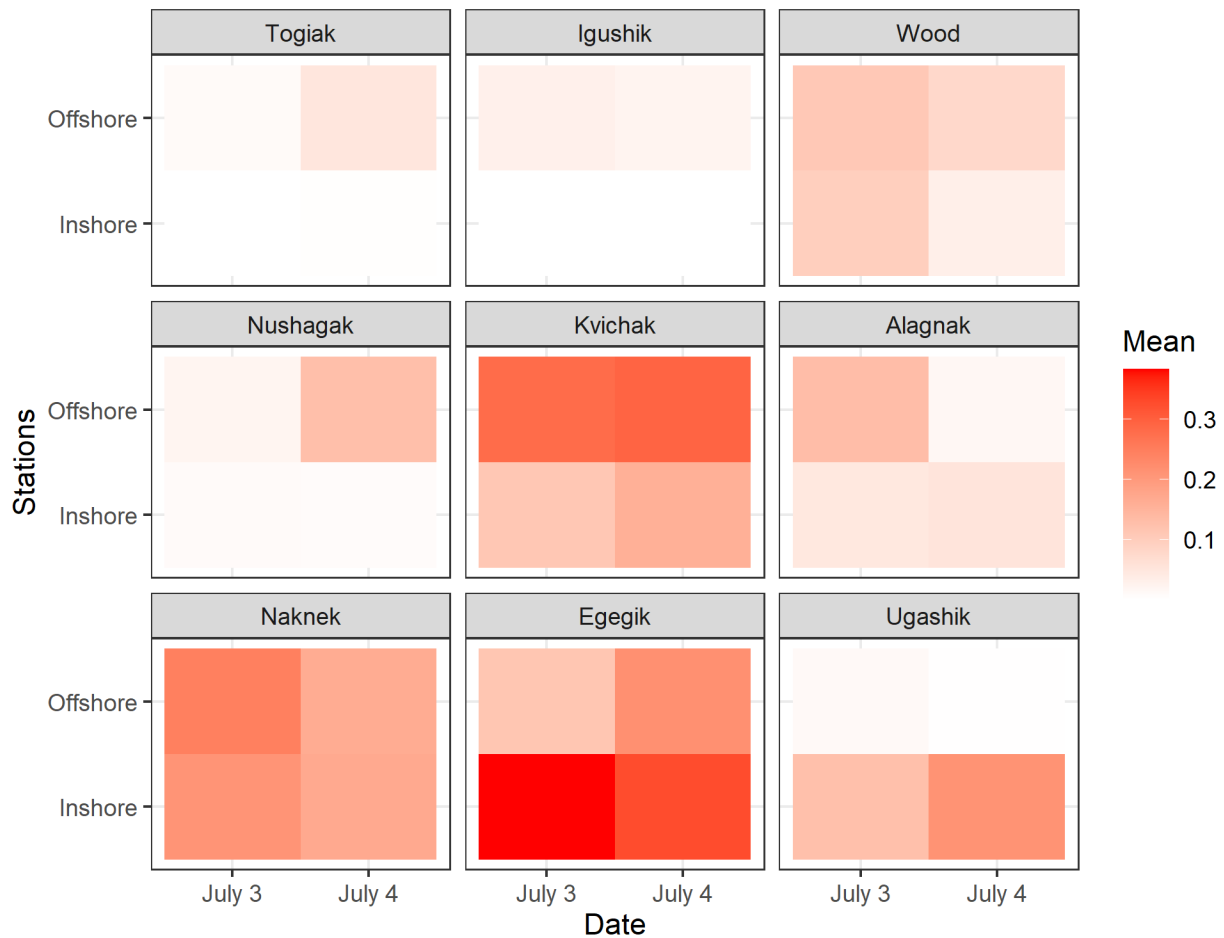
Bristol Bay Sockeye Salmon Fishery

Port Moller Sockeye Salmon Stock Composition Summary

July 3 and 4, 2020 – Stations 2–12 and 14–22

This report summarizes genetic stock compositions for sockeye salmon captured at inshore (Stations 2-12) and offshore (Stations 14-22) stations of the Port Moller Test Fishery on July 3 and 4, 2020. We analyzed samples by stations to characterize the distribution of stocks across the test fishery transect. We genotyped all available samples to achieve adequate sample sizes.

The figures below summarize stock composition estimates for Bristol Bay groups while following pages provide details for each station group.

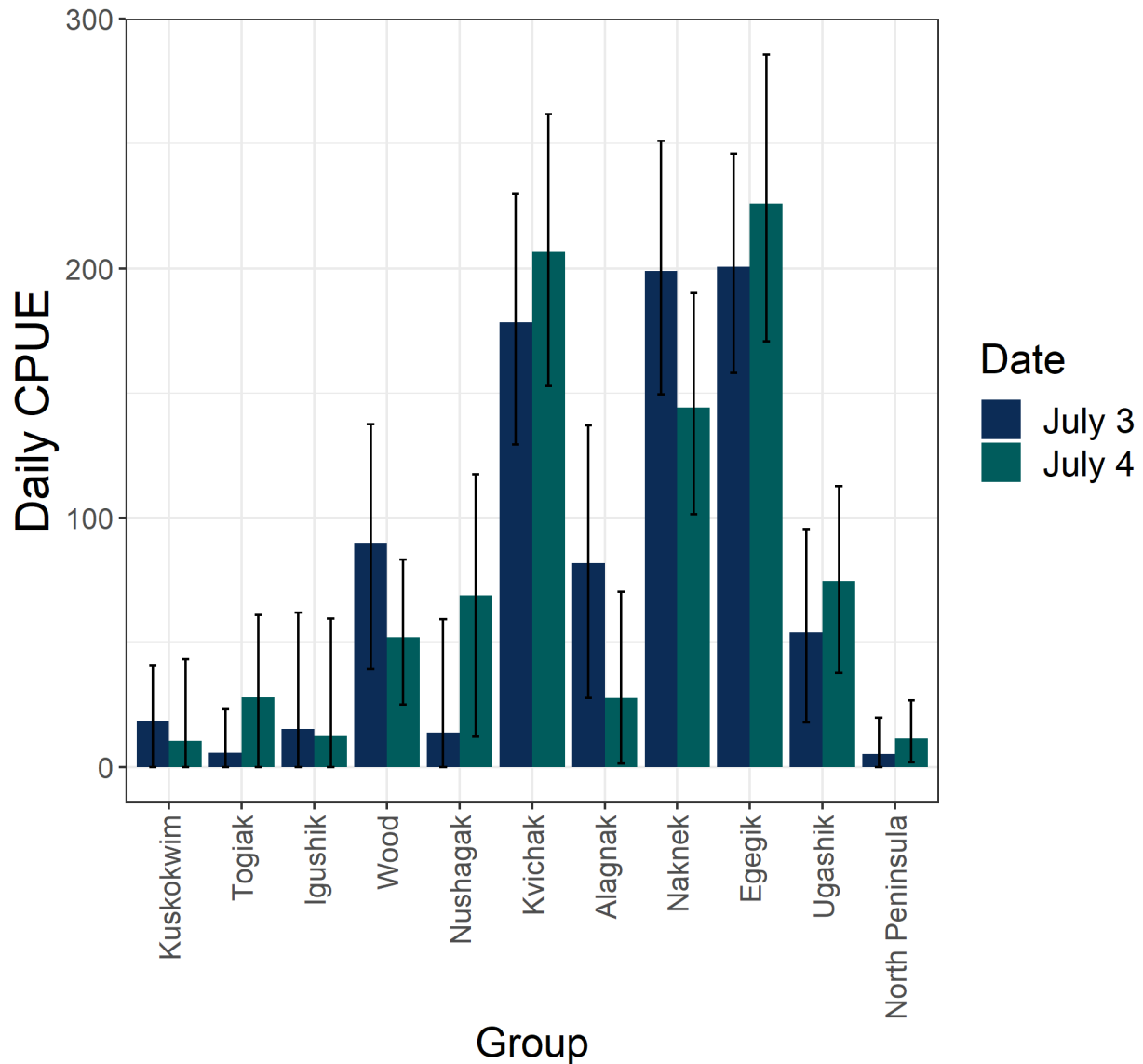


The figure above depicts mean stock composition estimate (%) for the 9 major stocks within Bristol Bay for each mixture. Dates are along the horizontal axis while stations are along the vertical axis. The darker the red the higher the estimate, with completely red equal to 40% and white equal to 0%. See following pages for details.

Table 1. Summary of the numbers of samples collected and genotyped and included in final analyses as well as the catch per unit of effort (CPUE; # of fish caught per hour of fishing) for each mixture.

Mixture	Samples		CPUE represented
	Collected and Genotyped	Included in Analysis	
July 3 Inshore	176	136	378
July 3 Offshore	212	193	485
July 4 Inshore	180	164	321
July 4 Offshore	195	176	485

By weighting each stock's estimate by the CPUE represented by each mixture we can estimate each stock's relative abundance on each day.



Bristol Bay Sockeye Salmon Fishery

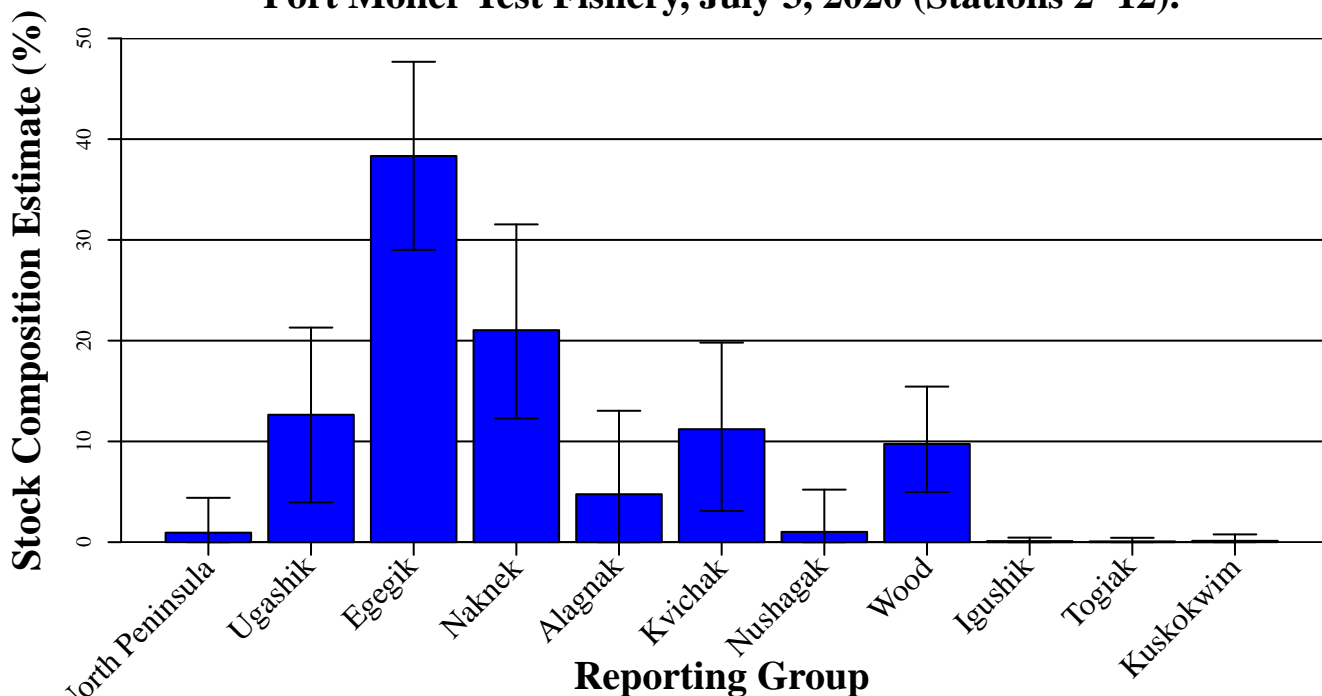
Port Moller Sockeye Salmon Stock Composition Summary

July 3, 2020 – Stations 2–12

Genetic stock composition estimates for sockeye salmon from stations 2–12 of the Port Moller Test Fishery for July 3, 2020. A total of 176 fish were sampled and analyzed (136 had adequate data to include in the analysis).

Reporting Group	Stock	90%	
	Composition Estimate	Lower	Upper
North Peninsula	0.9%	0.0%	4.4%
Ugashik	12.6%	4.0%	21.3%
Egegik	38.3%	29.0%	47.7%
Naknek	21.0%	12.3%	31.5%
Alagnak	4.8%	0.0%	13.0%
Kvichak	11.2%	3.1%	19.8%
Nushagak	1.0%	0.0%	5.2%
Wood	9.7%	5.0%	15.4%
Igushik	0.1%	0.0%	0.5%
Togiak	0.1%	0.0%	0.4%
Kuskokwim	0.1%	0.0%	0.8%

Genetic Stock Composition Estimates for Sockeye Salmon Captured in the Port Moller Test Fishery, July 3, 2020 (Stations 2–12).



The genetic analysis was completed by the Alaska Department of Fish and Game, Division of Commercial Fisheries, Gene Conservation Laboratory.

Bristol Bay Sockeye Salmon Fishery

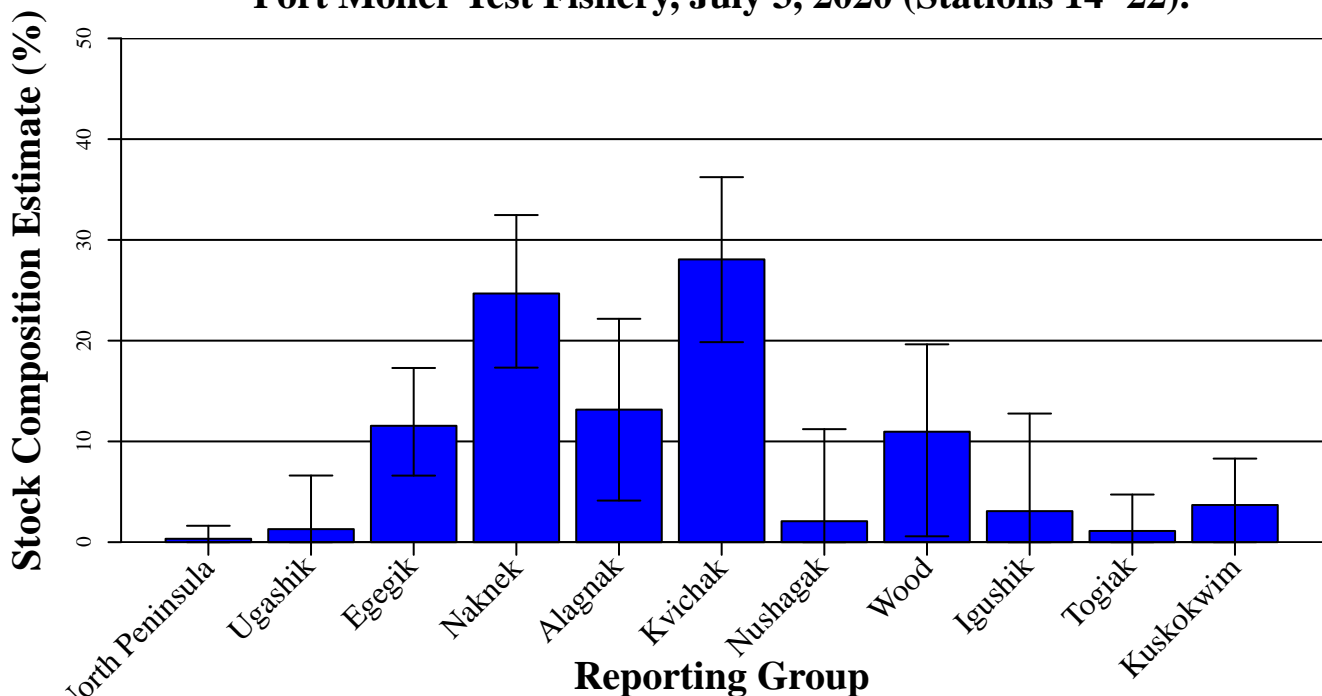
Port Moller Sockeye Salmon Stock Composition Summary

July 3, 2020 – Stations 14–22

Genetic stock composition estimates for sockeye salmon from stations 14–22 of the Port Moller Test Fishery for July 3, 2020. A total of 212 fish were sampled and analyzed (193 had adequate data to include in the analysis).

Reporting Group	Stock	90%	
	Composition Estimate	Lower	Upper
North Peninsula	0.3%	0.0%	1.6%
Ugashik	1.3%	0.0%	6.6%
Egegik	11.5%	6.6%	17.3%
Naknek	24.7%	17.3%	32.5%
Alagnak	13.2%	4.1%	22.2%
Kvichak	28.1%	19.9%	36.2%
Nushagak	2.1%	0.0%	11.2%
Wood	11.0%	0.6%	19.6%
Igushik	3.1%	0.0%	12.8%
Togiak	1.1%	0.0%	4.7%
Kuskokwim	3.7%	0.0%	8.3%

Genetic Stock Composition Estimates for Sockeye Salmon Captured in the Port Moller Test Fishery, July 3, 2020 (Stations 14–22).



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Bristol Bay Sockeye Salmon Fishery

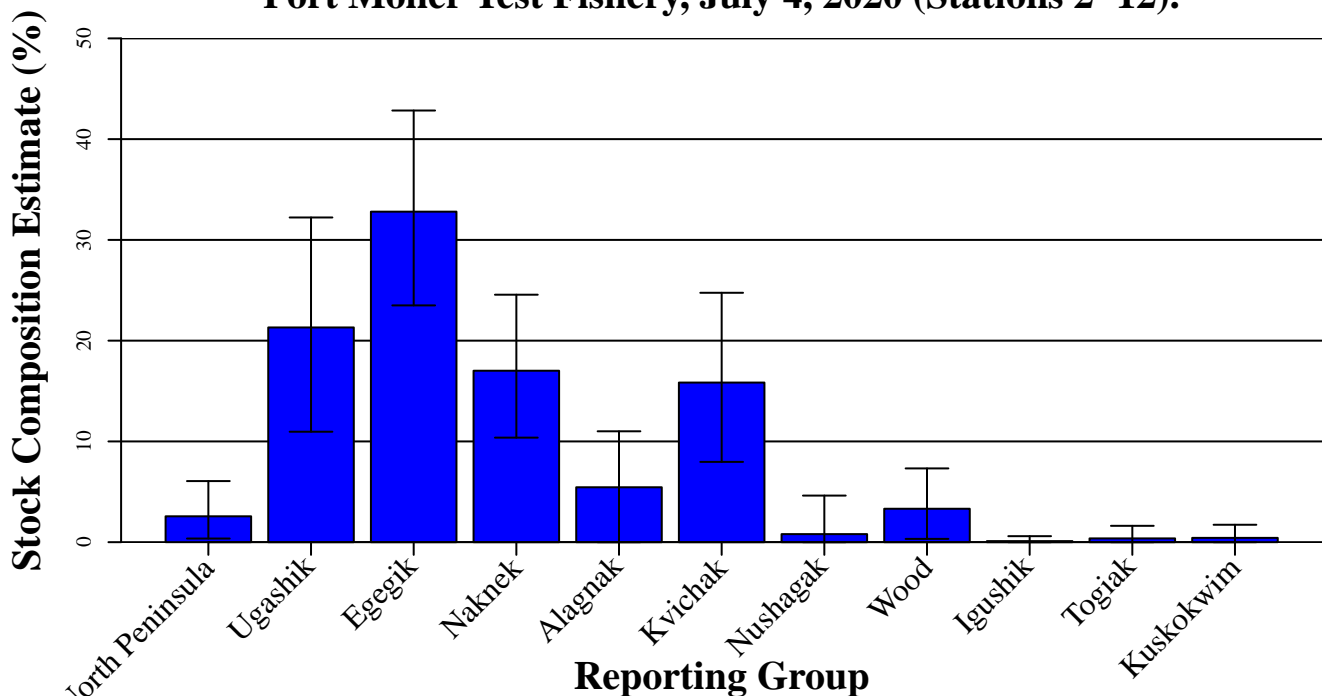
Port Moller Sockeye Salmon Stock Composition Summary

July 4, 2020 – Stations 2–12

Genetic stock composition estimates for sockeye salmon from stations 2–12 of the Port Moller Test Fishery for July 4, 2020. A total of 180 fish were sampled and analyzed (164 had adequate data to include in the analysis).

Reporting Group	Stock	90%	
	Composition Estimate	Lower	Upper
North Peninsula	2.6%	0.4%	6.1%
Ugashik	21.3%	11.0%	32.2%
Egegik	32.8%	23.5%	42.8%
Naknek	17.0%	10.4%	24.6%
Alagnak	5.4%	0.0%	11.0%
Kvichak	15.8%	8.0%	24.8%
Nushagak	0.8%	0.0%	4.6%
Wood	3.3%	0.3%	7.3%
Igushik	0.1%	0.0%	0.6%
Togiak	0.4%	0.0%	1.6%
Kuskokwim	0.4%	0.0%	1.7%

Genetic Stock Composition Estimates for Sockeye Salmon Captured in the Port Moller Test Fishery, July 4, 2020 (Stations 2–12).



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Bristol Bay Sockeye Salmon Fishery

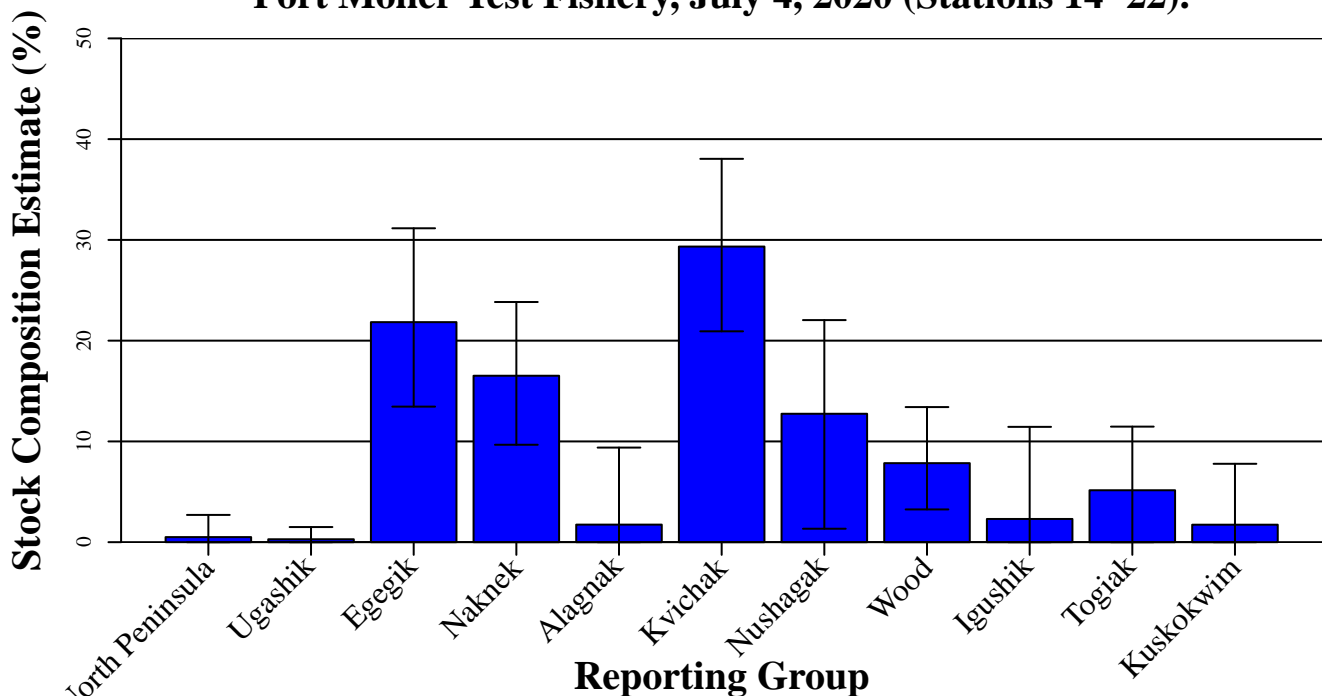
Port Moller Sockeye Salmon Stock Composition Summary

July 4, 2020 – Stations 14–22

Genetic stock composition estimates for sockeye salmon from stations 14–22 of the Port Moller Test Fishery for July 4, 2020. A total of 195 fish were sampled and analyzed (176 had adequate data to include in the analysis).

Reporting Group	Stock	90%	
	Composition Estimate	Lower	Upper
North Peninsula	0.5%	0.0%	2.7%
Ugashik	0.3%	0.0%	1.5%
Egegik	21.8%	13.5%	31.2%
Naknek	16.5%	9.7%	23.8%
Alagnak	1.7%	0.0%	9.4%
Kvichak	29.3%	20.9%	38.0%
Nushagak	12.7%	1.3%	22.0%
Wood	7.8%	3.3%	13.4%
Igushik	2.3%	0.0%	11.4%
Togiak	5.2%	0.0%	11.5%
Kuskokwim	1.7%	0.0%	7.8%

Genetic Stock Composition Estimates for Sockeye Salmon Captured in the Port Moller Test Fishery, July 4, 2020 (Stations 14–22).



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