Bristol Bay Sockeye Salmon Fishery

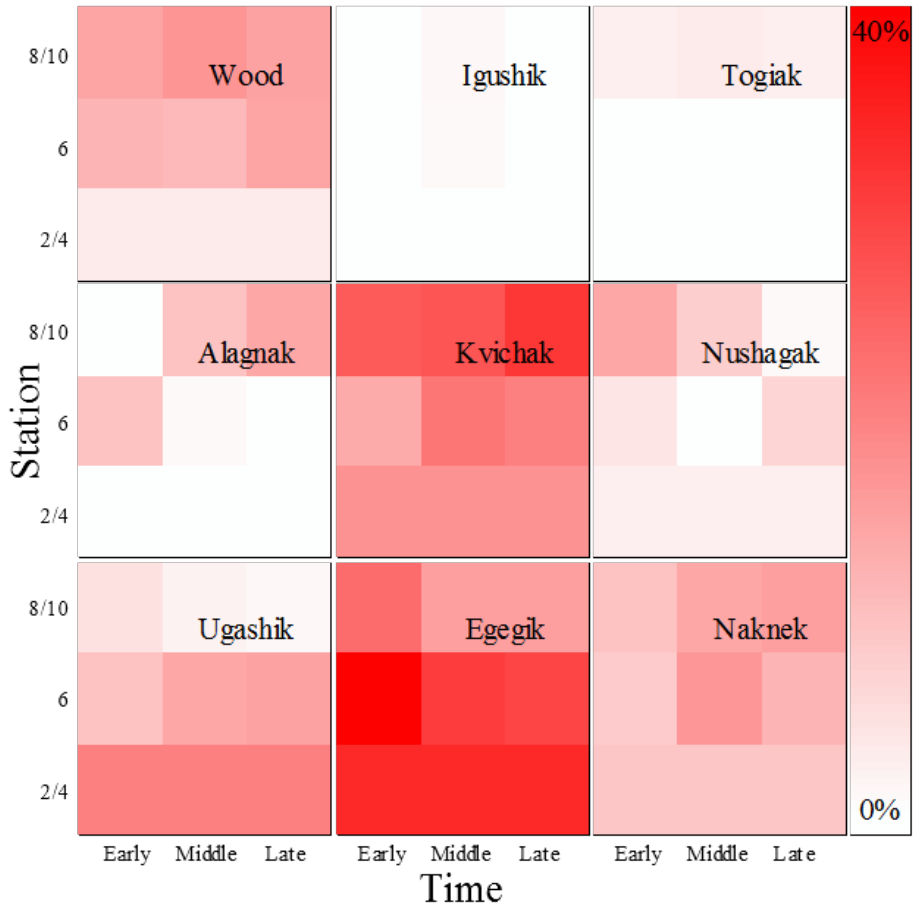
Port Moller Sockeye Salmon Stock Composition Summary

June 10−July 6, 2013 − Stations 2/4, 6, and 8/10

This report summarizes genetic stock composition estimates for sockeye salmon captured at different stations of the Port Moller Test Fishery in 2013. We analyzed the fish by station groups to characterize the distribution of stocks across the test fishery transect.

In defining station−specific groups, we balanced the goal of fine−scale temporal resolution of station catches with the requirement of adequate sample sizes. As a result, we analyzed station−specific catches for three time periods. Catches and corresponding samples at Stations 2 and 10 were few, so these fish were grouped with fish from adjacent stations (2 grouped with 4, 10 grouped with 8). Similarly, few fish were caught at Stations 2 and 4 so we provide a single, annual set of estimates for the inshore stations.

The figure below summarizes the mean stock composition estimates for all groups while following pages provide details for each station group.



The figure above depicts mean estimates for the 9 major stocks within Bristol Bay for each spatiotemporal stratum of the Port Moller Test Fishery in 2013. Time periods 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.

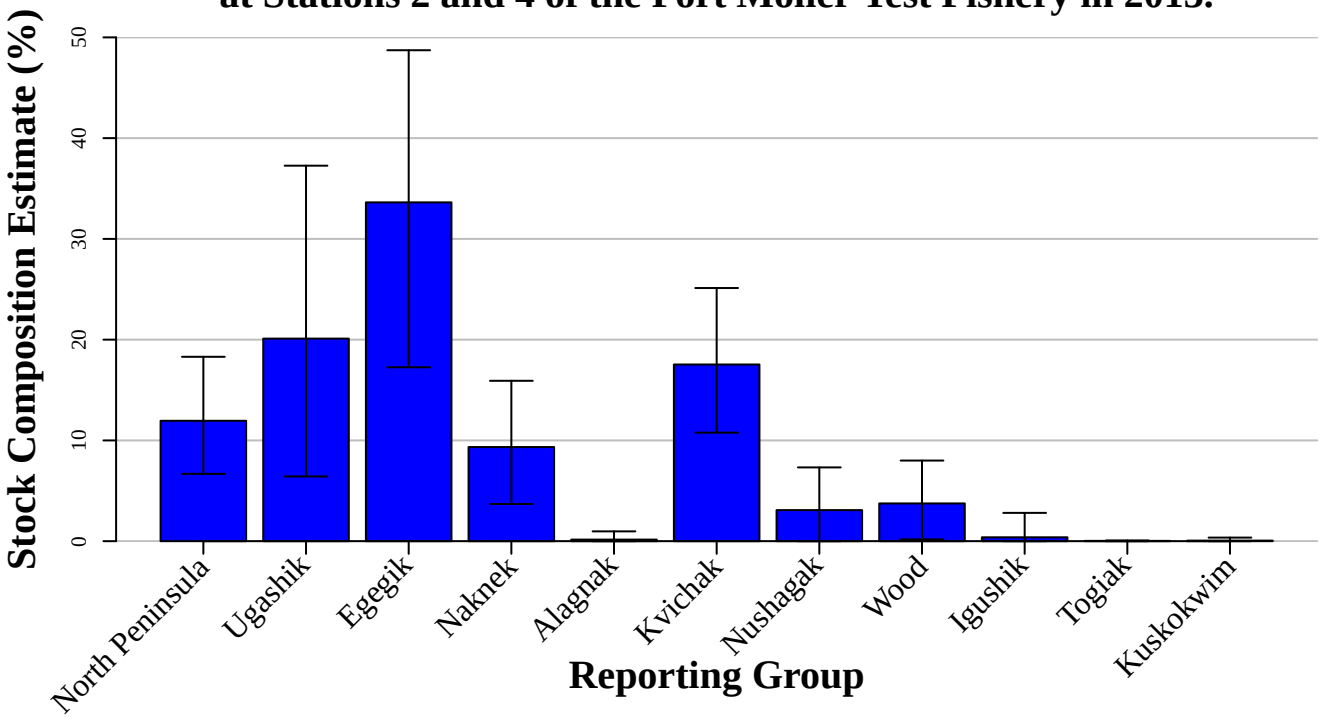
Bristol Bay Sockeye Salmon Fishery

Port Moller Sockeye Salmon Stock Composition Summary
June 10−July 6, 2013 − Stations 2 and 4

Genetic stock composition estimates for sockeye salmon from Stations 2 and 4 of the Port Moller Test Fishery in 2013. A total of 536 fish were sampled and 233 were included in the final analysis.

Reporting Group	Stock Composition Estimate	90% Confidence Intervals Lower	Upper
North Peninsula	11.9%	6.7%	18.3%
Ugashik	20.1%	6.4%	37.3%
Egegik	33.6%	17.3%	48.7%
Naknek	9.3%	3.7%	15.9%
Alagnak	0.2%	0.0%	1.0%
Kvichak	17.5%	10.8%	25.1%
Nushagak	3.1%	0.0%	7.3%
Wood	3.7%	0.2%	8.0%
Igushik	0.4%	0.0%	2.8%
Togiak	0.0%	0.0%	0.1%
Kuskokwim	0.1%	0.0%	0.4%

Genetic Stock Composition Estimates for Sockeye Salmon Captured at Stations 2 and 4 of the Port Moller Test Fishery in 2013.



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

These and other Port Moller Test Fishery results are available at: http://www.adfg.alaska.gov/index.cfm?adfg=fishinggeneconservationlab.bbaysockeye_results
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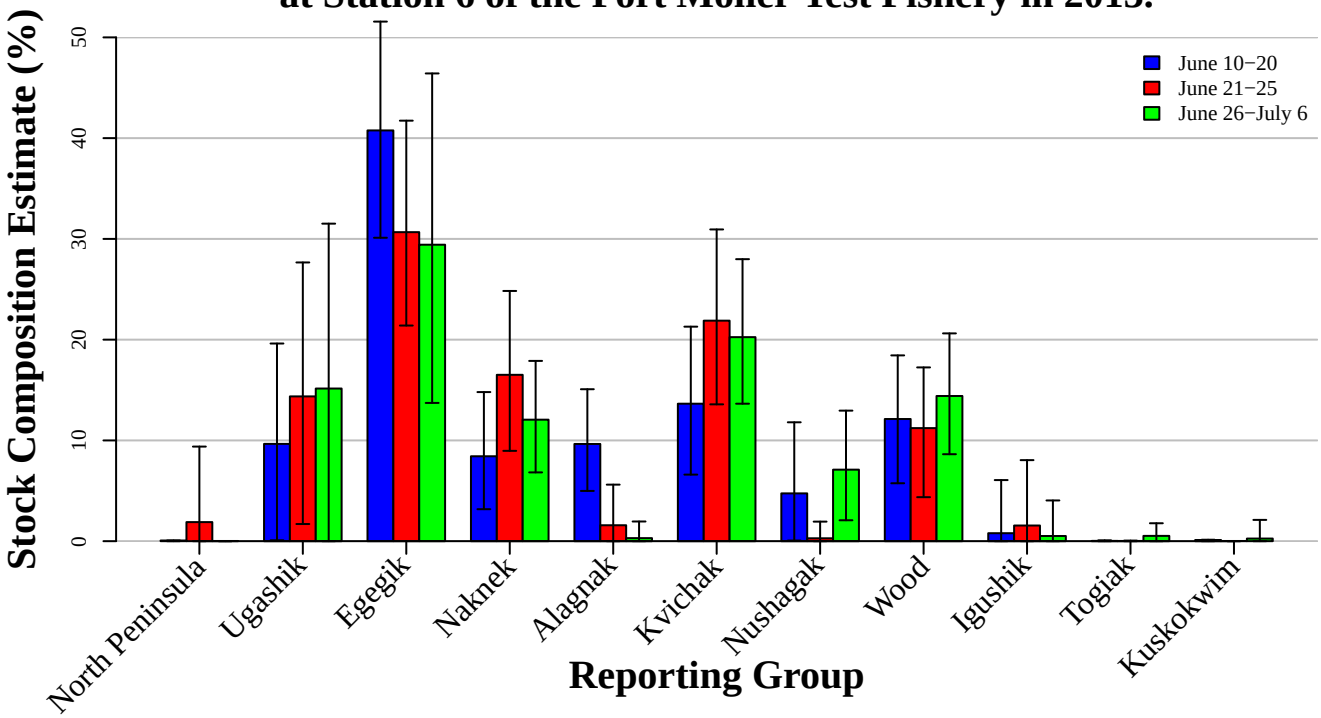
Bristol Bay Sockeye Salmon Fishery

Port Moller Sockeye Salmon Stock Composition Summary
June 10−July 6, 2013 − Station 6

Genetic stock composition estimates for sockeye salmon from Station 6 of the Port Moller Test Fishery for early (June 10−20), middle (June 21−25) and late (June 26−July 6) periods of 2013. Totals of 643, 392 and 338 fish were sampled from the early, middle and late periods, and 189, 190 and 191 were included in final analyses, respectively.

	June 10−20			June 21−25			June 26−July 6		
	Stock Composition	90% Confidence Intervals		Stock Composition	90% Confidence Intervals		Stock Composition	90% Confidence Intervals	
Reporting Group	Estimate	Lower	Upper	Estimate	Lower	Upper	Estimate	Lower	Upper
North Peninsula	0.1%	0.0%	0.1%	1.9%	0.0%	9.4%	0.0%	0.0%	0.0%
Ugashik	9.7%	0.1%	19.6%	14.4%	1.7%	27.7%	15.1%	0.0%	31.5%
Egegik	40.8%	30.1%	51.6%	30.7%	21.4%	41.7%	29.4%	13.7%	46.4%
Naknek	8.4%	3.2%	14.8%	16.5%	9.0%	24.8%	12.1%	6.8%	17.9%
Alagnak	9.6%	5.0%	15.1%	1.6%	0.0%	5.6%	0.3%	0.0%	2.0%
Kvichak	13.6%	6.6%	21.3%	21.9%	13.6%	30.9%	20.2%	13.6%	28.0%
Nushagak	4.7%	0.1%	11.8%	0.3%	0.0%	1.9%	7.1%	2.1%	13.0%
Wood	12.1%	5.7%	18.4%	11.2%	4.4%	17.2%	14.4%	8.6%	20.6%
Igushik	0.8%	0.0%	6.1%	1.6%	0.0%	8.0%	0.5%	0.0%	4.0%
Togiak	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.5%	0.0%	1.8%
Kuskokwim	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.3%	0.0%	2.1%

Genetic Stock Composition Estimates for Sockeye Salmon Captured at Station 6 of the Port Moller Test Fishery in 2013.



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

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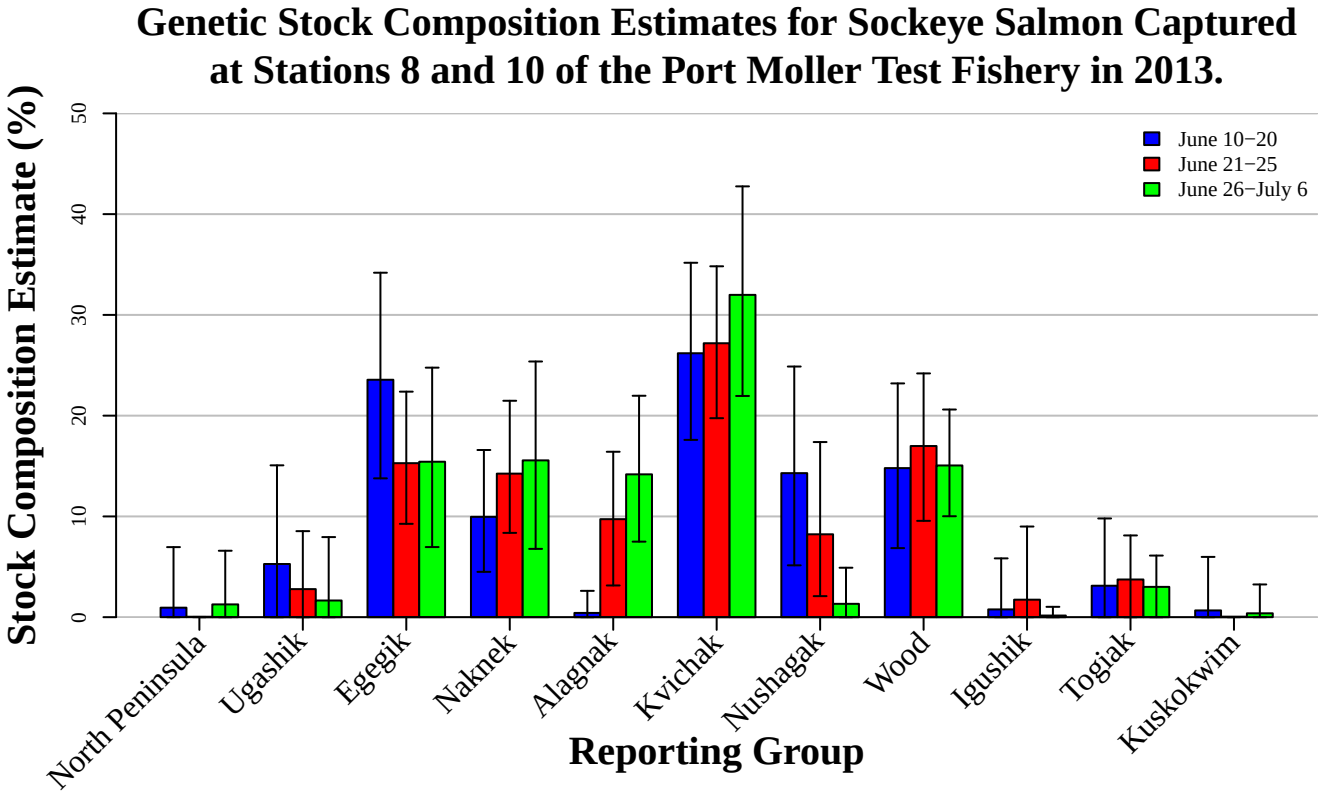
Bristol Bay Sockeye Salmon Fishery

Port Moller Sockeye Salmon Stock Composition Summary
June 10−July 6, 2013 − Stations 8 and 10

Genetic stock composition estimates for sockeye salmon from Stations 8 and 10 of the Port Moller Test Fishery for early (June 10−20), middle (June 21−25) and late (June 26−July 6) periods of 2013. Totals of 405, 365 and 269 fish were sampled from the early, middle and late periods, and 146, 183 and 168 were included in final analyses, respectively.

	June 10−20			June 21−25			June 26−July 6		
	Stock Composition	90% Confidence Intervals		Stock Composition	90% Confidence Intervals		Stock Composition	90% Confidence Intervals	
Reporting Group	Estimate	Lower	Upper	Estimate	Lower	Upper	Estimate	Lower	Upper
North Peninsula	0.9%	0.0%	7.0%	0.0%	0.0%	0.0%	1.3%	0.0%	6.6%
Ugashik	5.3%	0.0%	15.1%	2.8%	0.0%	8.5%	1.7%	0.0%	7.9%
Egegik	23.6%	13.8%	34.2%	15.3%	9.3%	22.4%	15.4%	7.0%	24.8%
Naknek	10.0%	4.5%	16.6%	14.2%	8.4%	21.5%	15.6%	6.8%	25.4%
Alagnak	0.4%	0.0%	2.6%	9.7%	3.1%	16.4%	14.2%	7.5%	22.0%
Kvichak	26.2%	17.6%	35.2%	27.2%	19.7%	34.8%	32.0%	22.0%	42.8%
Nushagak	14.3%	5.1%	24.9%	8.2%	2.1%	17.4%	1.3%	0.0%	4.9%
Wood	14.8%	6.9%	23.2%	17.0%	9.6%	24.2%	15.1%	10.0%	20.6%
Igushik	0.8%	0.0%	5.8%	1.7%	0.0%	9.0%	0.2%	0.0%	1.0%
Togiak	3.1%	0.0%	9.8%	3.7%	0.0%	8.1%	3.0%	0.0%	6.1%
Kuskokwim	0.7%	0.0%	6.0%	0.1%	0.0%	0.0%	0.4%	0.0%	3.2%



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