

Table 1. 2014 Fraser River sockeye Forecasts

A	B	C	D	F	G	H	I	J	K	L
Run timing group	Forecast Model ^b	BY (10) (EFS)	BY (09) (EFS)	Mean Run Size		Probability that Return will be at/or Below Specified Run Size ^a				
Stocks				all cycles ^c	2014 cycle ^d	10%	25%	50%	75%	90%
**Early Stuart	<i>Ricker (Ei)</i>	34,200	21,900	308,000	126,000	132,000	189,000	299,000	476,000	709,000
Early Summer <i>(total excluding miscellaneous)</i>				--	--	730,000	1,741,000	4,126,000	8,470,000	16,805,000
				527,000	897,000	523,000	1,279,000	3,111,000	6,845,000	13,898,000
Bowron	<i>MRS</i>	4,400	1,000	39,000	26,000	8,000	15,000	30,000	60,000	113,000
Fennell	<i>power</i>	5,500	700	25,000	20,000	9,000	13,000	24,000	41,000	68,000
Gates	<i>Larkin</i>	5,900	5,300	53,000	18,000	31,000	47,000	79,000	131,000	228,000
Nadina	<i>MRJ</i>	11,900	3,700	79,000	26,000	26,000	51,000	109,000	233,000	460,000
Pitt	<i>Larkin</i>	8,800	18,800	71,000	59,000	31,000	46,000	73,000	127,000	208,000
**Scotch	<i>Ricker</i>	273,900	2,700	113,000	390,000	264,000	678,000	1,542,000	3,328,000	6,993,000
**Seymour	<i>Ricker</i>	287,500	3,100	147,000	358,000	154,000	429,000	1,254,000	2,925,000	5,828,000
Misc (EShu & Taseko) ^e	<i>RS (Sc/Se) +RS(Chilko)</i>	119,500	1,600	--	--	198,000	444,000	982,000	1,565,000	2,795,000
Misc (Chilliwack) ^f	<i>RS (Esum)</i>	1,500	2,400	--	--	4,000	8,000	14,000	26,000	48,000
Misc (Nahatlatch) ^f	<i>RS (Esum)</i>	2,900	700	--	--	5,000	10,000	19,000	34,000	64,000
Summer <i>(total excluding miscellaneous)</i>				--	--	2,127,000	3,393,000	5,699,000	10,116,000	17,781,000
				3,879,000	3,483,000	2,118,000	3,377,000	5,670,000	10,058,000	17,667,000
Chilko ^g	<i>power (juv) (Pi)</i>	54.9 M	34.4 M	1,405,000	1,484,000	1,121,000	1,670,000	2,615,000	4,274,000	6,790,000
Late Stuart	<i>power</i>	43,500	43,300	554,000	232,000	92,000	172,000	329,000	672,000	1,308,000
Quesnel	<i>Ricker-cyc</i>	133,000	82,800	1,345,000	1,050,000	467,000	845,000	1,524,000	2,950,000	5,864,000
Stellako	<i>Larkin</i>	110,300	15,900	461,000	548,000	303,000	437,000	690,000	1,119,000	1,719,000
Raft ^h	<i>Ricker (PDO)</i>	2,400	6,000	31,000	22,000	17,000	25,000	39,000	63,000	98,000
**Harrison ^{h & i}	<i>Adjusted R1C</i>	399,700	387,100	83,000	147,000	118,000	228,000	473,000	980,000	1,888,000
Misc (N. Thomp. Tribs) ^{h & j}	<i>R/S (Ra/Fe)</i>	600	1,000	--	--	2,000	3,000	6,000	12,000	23,000
Misc (N. Thomp River) ^{h & j}	<i>R/S (Ra/Fe)</i>	3,200	1,700	--	--	7,000	13,000	23,000	46,000	91,000
Late <i>(total excluding miscellaneous)</i>				--	--	4,322,000	7,574,000	12,886,000	22,338,000	37,224,000
				3,222,000	8,967,000	4,304,000	7,541,000	12,826,000	22,234,000	37,039,000
Cultus ^g	<i>MRJ</i>	318,400	174,000	39,000	36,000	3,000	6,000	13,000	28,000	56,000
**Late Shuswap	<i>Ricker-cyc</i>	3.1 M	20,200	2,414,000	7,791,000	3,900,000	6,894,000	11,730,000	20,240,000	33,503,000
Portage	<i>Larkin</i>	26,700	800	43,000	76,000	20,000	45,000	111,000	265,000	657,000
Weaver	<i>MRS</i>	25,300	12,900	361,000	576,000	176,000	285,000	479,000	870,000	1,524,000
**Birkenhead	<i>Ricker (Ei)</i>	67,800	34,500	365,000	488,000	205,000	311,000	493,000	831,000	1,299,000
Misc. non-Shuswap ^k	<i>R/S (Lillooet-Harrison)</i>	7,400	5,100	--	--	18,000	33,000	60,000	104,000	185,000
TOTAL SOCKEYE SALMON <i>(TOTAL excluding miscellaneous)</i>				--	--	7,311,000	12,897,000	23,010,000	41,400,000	72,519,000
				7,936,000	13,473,000	7,077,000	12,386,000	21,906,000	39,613,000	69,313,000

****Note that for Scotch, Seymour, Harrison, Late Shuswap and Portage Creek, these stocks were forecast using record brood year EFS, as a result, these forecasts are particularly uncertain given the forecast models are extrapolating beyond the observed data range.**

****Note that Early Stuart and Birkenhead, for different reasons, have biased brood year escapement estimates in 2010, which adds additional uncertainty to the 2014 forecasts.**

- a. Probability that return will be at, or below, specified projection.
- b. See Table 5 for model descriptions
- c. Sockeye: 1953-2010 (depending on start of time series)
- d. Sockeye: 1954-2010 (depending on start of time series)
- e. Misc. Early Shuswap stocks use Scotch and Seymour R/EFS in forecast; Misc. Taseko uses Chilko R/EFS in forecast
- f. Misc. Chilliwack & Nahatlatch use Early Summer Run stocks R/EFS in forecast
- g. Brood year smolts in columns C & D (not effective females)
- h. Raft, Harrison, Miscellaneous North Thompson stocks moved in current forecast to Summer Run timing group due to changes in run timing of these stocks
- i. Harrison are age-4 (column C) and age-3 (column D).
- j. Misc. North Thompson stocks use Raft & Fennel R/EFS in forecast
- k. Misc. Late Run stocks (Harrison Lake down stream migrants including Big Silver, Cogburn, etc.) use Birkenhead R/EFS in forecast

**** Harrison forecasts are extremely uncertain due to age-proportion variations and brood year escapements (2010/2011) that are out of the historical data range**

Definitions: BY: Brood year; BY9: brood year 2009; BY10: brood year 2010; EFS: effective female spawners; Ei (Entrance Island sea-surface-temperature); PDO (Pacific Decadal Oscillation).