

		Abundance (Effective Total Spawner) Lower Benchmark					Abundance (Effective Total Spawner) Upper Benchmark					Abundance (Effective Total Spawner) Arithmetic					Abundance (Effective Total Spawner) Geometric						
Run Timing Group												Stock Status					Stock Status						
Conservation Unit	model (time series)	10%	25%	50%	75%	90%	10%	25%	50%	75%	90%	Last Gen. 2006-2009	Probability Level					Last Gen. 2006-2009	Probability Level				
													10%	25%	50%	75%	90%		10%	25%	50%	75%	90%
Early Stuart Run																							
Takla-Trembleur-Estu	Ricker (1950-2004)	46,000	55,000	68,000	88,000	111,000	174,000	192,000	218,000	259,000	302,000	26,500						20,200					
	Ricker (1970-2004)	63,000	76,000	97,000	127,000	154,000	177,000	198,000	225,000	263,000	298,000												
	Ricker (1990-2004)	85,000	95,000	111,000	126,000	130,000	138,000	138,000	143,000	147,000	147,000												
	Ricker-smoothed (1950-2004)	62,000	72,000	85,000	104,000	126,000	74,000	84,000	97,000	117,000	139,000												
	Kalman (1950-2004)	82,000	107,000	138,000	176,000	218,000	83,000	131,000	187,000	261,000	332,000												
	Larkin-smoothed (1950-2004)	23,000	27,000	32,000	39,000	46,000	76,000	83,000	93,000	105,000	120,000												
	Larkin (1950-2004)	8,000	10,000	12,000	15,000	19,000	76,000	83,000	94,000	106,000	123,000												
	Larkin (1970-2004) ²	15,000	19,000	24,000	34,000	43,000	91,000	102,000	119,000	144,000	176,000												
	Larkin (1990-2004) ²	29,000	39,000	56,000	83,000	124,000	86,000	108,000	143,000	200,000	290,000												
Early Summer Run																							
Bowron-ES	Ricker (1950-2004)	3,000	3,000	4,000	5,000	6,000	13,000	15,000	17,000	19,000	22,000	1,600						1,500					
	Ricker (1970-2004)	3,000	3,000	4,000	5,000	7,000	11,000	13,000	14,000	17,000	18,000												
	Ricker (1990-2004)	3,000	4,000	5,000	7,000	9,000	10,000	11,000	12,000	14,000	15,000												
	Ricker (1950-2004)(smoothed)	4,000	5,000	5,000	6,000	7,000	5,000	6,000	6,000	7,000	8,000												
	Kalman (1950-2004)	4,000	5,000	6,000	7,000	9,000	6,000	8,000	11,000	13,000	16,000												
	Larkin (1950-2004) (smoothed)	2,000	3,000	4,000	6,000	8,000	7,000	8,000	10,000	12,000	14,000												
	Larkin (1950-2004)	1,000	1,000	1,000	2,000	2,000	7,000	8,000	10,000	12,000	15,000												
	Larkin (1970-2004) ²	0	1,000	1,000	1,000	1,000	4,000	5,000	5,000	6,000	8,000												
	Larkin (1990-2004) ²	0	1,000	1,000	1,000	1,000	3,000	4,000	4,000	5,000	6,000												
Kamloops-ES	Ricker (1967-2004)	3,000	4,000	5,000	6,000	9,000	17,000	19,000	23,000	27,000	33,000	15,400						14,100					
	Ricker (1990-2004)	4,000	6,000	10,000	17,000	32,000	20,000	25,000	32,000	45,000	74,000												
	Ricker (1950-2004)(smoothed)	3,000	4,000	5,000	7,000	9,000	16,000	18,000	21,000	26,000	32,000												
	Kalman (1967-2004)	5,000	8,000	15,000	35,000	58,000	23,000	30,000	49,000	101,000	161,000												
	Larkin (1967-2004) (smoothed)	1,000	1,000	2,000	3,000	4,000	14,000	16,000	18,000	21,000	26,000												
	Larkin (1967-2004) ²	1,000	2,000	2,000	3,000	3,000	15,000	16,000	18,000	21,000	24,000												
	Larkin (1990-2004) ²	1,000	1,000	1,000	2,000	3,000	11,000	13,000	16,000	19,000	23,000												
Anderson-ES	Ricker (1968-2004)	1,000	2,000	3,000	4,000	9,000	12,000	14,000	19,000	27,000	48,000	4,100						3,300					
	Ricker (1990-2004)	2,000	3,000	6,000	14,000	33,000	12,000	16,000	24,000	46,000	88,000												
	Ricker (1950-2004)(smoothed)	2,000	3,000	5,000	7,000	11,000	9,000	11,000	14,000	20,000	31,000												
	Kalman (1968-2004) ¹	15,000	34,000	70,000	112,000	143,000	45,000	94,000	199,000	325,000	416,000												
	Larkin (1968-2004)(smoothed)	3,000	3,000	4,000	4,000	5,000	18,000	19,000	20,000	22,000	23,000												
	Larkin (1968-2004) ²	0	0	1,000	1,000	1,000	5,000	6,000	6,000	7,000	8,000												
	Larkin (1990-2004) ²	0	1,000	1,000	1,000	1,000	4,000	5,000	6,000	7,000	9,000												
Francois-ES	Ricker (1973-2004)	8,000	11,000	17,000	33,000	59,000	35,000	42,000	58,000	100,000	158,000	9,400						7,000					
	Ricker (1990-2004)	7,000	11,000	18,000	40,000	76,000	29,000	36,000	48,000	84,000	121,000												
	Ricker (1950-2004)(smoothed)	10,000	13,000	20,000	33,000	61,000	27,000	34,000	48,000	75,000	132,000												
	Kalman (1973-2004) ¹	29,000	50,000	90,000	131,000	159,000	71,000	119,000	203,000	305,000	382,000												
	Larkin (1973-2004) (smoothed)	1,000	1,000	1,000	2,000	2,000	9,000	10,000	11,000	12,000	13,000												
	Larkin (1973-2004) ²	1,000	2,000	3,000	4,000	5,000	14,000	16,000	20,000	25,000	31,000												
	Larkin (1990-2004) ²	1,000	2,000	3,000	5,000	8,000	13,000	16,000	21,000	28,000	38,000												

Abundance (Effective Total Spawner) Lower Benchmark							Abundance (Effective Total Spawner) Upper Benchmark					Abundance (Effective Total Spawner) Arithmetic					Abundance (Effective Total Spawner) Geometric					Abundance (Effective Total Spawner) Stock Status				
Run Timing Group							Run Timing Group					Run Timing Group					Run Timing Group					Run Timing Group				
Conservation Unit	model (time series)	10%	25%	50%	75%	90%	10%	25%	50%	75%	90%	Last Gen. 2006-2009	Probability Level					Last Gen. 2006-2009	Probability Level							
Pitt-ES (switched to uniform)	Ricker (1950-2004)	4,000	5,000	6,000	8,000	9,000	18,000	20,000	22,000	24,000	26,000	32,200						29,300								
	Ricker (1970-2004)	5,000	6,000	7,000	9,000	12,000	19,000	20,000	22,000	24,000	27,000															
	Ricker (1990-2004)	3,000	4,000	6,000	8,000	12,000	19,000	20,000	22,000	24,000	27,000															
	Ricker (1950-2004)(smoothed)	6,000	8,000	9,000	11,000	11,000	14,000	16,000	17,000	18,000	18,000															
	Kalman (1950-2004)	5,000	8,000	10,000	13,000	15,000	20,000	24,000	27,000	31,000	35,000															
	Larkin (1950-2004) (smoothed)	2,000	2,000	3,000	4,000	5,000	18,000	19,000	20,000	22,000	23,000															
	Larkin (1950-2004)	2,000	3,000	3,000	4,000	4,000	18,000	19,000	20,000	22,000	24,000															
	Larkin (1970-2004) ²	3,000	3,000	4,000	5,000	6,000	18,000	19,000	20,000	22,000	25,000															
	Larkin (1990-2004) ²	1,000	2,000	2,000	3,000	3,000	18,000	20,000	21,000	22,000	24,000															
Shuswap-ES	Ricker (1980-2004)	37,000	56,000	89,000	156,000	253,000	113,000	144,000	198,000	304,000	437,000	64,600						13,500								
	Ricker (1990-2004)	34,000	54,000	87,000	161,000	238,000	91,000	119,000	155,000	241,000	308,000															
	Ricker (1950-2004)(smoothed)	27,000	36,000	51,000	79,000	130,000	71,000	87,000	113,000	161,000	248,000															
	Kalman (1980-2004) ¹	75,000	123,000	200,000	280,000	331,000	164,000	257,000	387,000	571,000	714,000															
	Larkin (1950-2004) (smoothed)	4,000	5,000	6,000	9,000	11,000	35,000	39,000	45,000	52,000	61,000															
	Larkin (1980-2004) ²	3,000	4,000	6,000	8,000	11,000	36,000	40,000	46,000	53,000	62,000															
Larkin (1990-2004) ²	1,000	2,000	3,000	4,000	6,000	23,000	27,000	30,000	35,000	41,000																
Chilliwack-ES	Carrying Capacity of system (not probabilisitic)			8,000					16,000			12,000						5,000								
Abundance (Effective Total Spawner) Lower Benchmark							Abundance (Effective Total Spawner) Upper Benchmark					Abundance (Effective Total Spawner) Arithmetic					Abundance (Effective Total Spawner) Geometric					Abundance (Effective Total Spawner) Stock Status				
Run Timing Group							Run Timing Group					Run Timing Group					Run Timing Group					Run Timing Group				
Conservation Unit	model (time series)	10%	25%	50%	75%	90%	10%	25%	50%	75%	90%	Last Gen. 2006-2009	Probability Level					Last Gen. 2006-2009	Probability Level							
Summer Run	Chilko-S	Ricker (1950-2004)	28,000	33,000	39,000	47,000	54,000	238,000	252,000	273,000	294,000	311,000	275,000						248,700							
	Chilko-ES	Ricker (1970-2004)	20,000	25,000	31,000	39,000	50,000	215,000	235,000	252,000	274,000	304,000														
		Ricker (1990-2004)	21,000	28,000	43,000	66,000	92,000	216,000	239,000	258,000	285,000	310,000														
		Ricker (1950-2004)(smoothed)	44,000	51,000	61,000	72,000	85,000	200,000	209,000	222,000	236,000	253,000														
		Kalman (1950-2004)	37,000	46,000	63,000	81,000	99,000	197,000	223,000	250,000	278,000	309,000														
		Larkin (1950-2004) (smoothed)	23,000	28,000	35,000	44,000	56,000	245,000	263,000	287,000	314,000	337,000														
		Larkin (1950-2004)	18,000	22,000	26,000	31,000	37,000	251,000	268,000	289,000	316,000	344,000														
		Larkin (1970-2004) ²	11,000	14,000	18,000	23,000	29,000	226,000	244,000	265,000	292,000	319,000														
		Larkin (1990-2004) ²	11,000	18,000	34,000	58,000	97,000	219,000	248,000	288,000	334,000	402,000														
Stuart-S Takla-Trembleur-S	Ricker (1950-2004)	55,000	73,000	104,000	146,000	197,000	343,000	400,000	489,000	608,000	741,000	59,100						38,400								
	Ricker (1970-2004)	64,000	87,000	125,000	188,000	267,000	365,000	414,000	500,000	622,000	763,000															
	Ricker (1990-2004)	129,000	170,000	234,000	309,000	392,000	349,000	390,000	444,000	499,000	549,000															
	Ricker (1950-2004)(smoothed)	105,370	150,000	209,000	284,000	392,000	216,000	336,000	482,000	703,000	958,000															
	Kalman (1950-2004)	110,000	134,000	166,000	210,000	272,000	164,000	192,000	231,000	284,000	358,000															
	Larkin (1950-2004) (smoothed)	33,000	42,000	57,000	78,000	106,000	158,000	179,000	210,000	257,000	312,000															
	Larkin (1950-2004)	15,000	19,000	25,000	34,000	45,000	160,000	183,000	216,000	261,000	316,000															
	Larkin (1970-2004) ²	16,000	22,000	30,000	43,000	61,000	165,000	191,000	230,000	293,000	383,000															

		Abundance (Effective Total Spawner) Lower Benchmark					Abundance (Effective Total Spawner) Upper Benchmark							Abundance (Effective Total Spawner) Arithmetic					Abundance (Effective Total Spawner) Geometric						
Run Timing Group														Stock Status					Last Gen.		Stock Status				
Conservation Unit	model (time series)	10%	25%	50%	75%	90%	10%	25%	50%	75%	90%	Last Gen. 2006-2009	Probability Level					Last Gen. 2006-2009	Probability Level						
		10%	25%	50%	75%	90%	10%	25%	50%	75%	90%		10%	25%	50%	75%	90%		10%	25%	50%	75%	90%		
Quesnel-S McKinley-S	Larkin (1990-2004) ²	52,000	74,000	116,000	179,000	283,000	217,000	276,000	367,000	515,000	748,000														
	Ricker (1950-2004)	84,000	100,000	121,000	140,000	168,000	600,000	637,000	701,000	742,000	805,000	95,800							51,500						
	Ricker (1970-2004)	76,000	91,000	112,000	139,000	164,000	615,000	647,000	694,000	736,000	775,000														
	Ricker (1990-2004)	126,000	160,000	202,000	253,000	291,000	518,000	529,000	536,000	539,000	521,000														
	Ricker (1950-2004)(smoothed)	187,000	209,000	234,000	253,000	268,000	344,000	358,000	369,000	378,000	384,000														
	Kalman (1950-2004)	158,000	213,000	255,000	294,000	331,000	185,000	322,000	464,000	590,000	693,000														
	Larkin (1950-2004) (smoothed)	22,000	30,000	41,000	57,000	75,000	366,000	396,000	429,000	467,000	512,000														
	Larkin (1950-2004)	29,000	33,000	38,000	45,000	52,000	367,000	394,000	430,000	468,000	519,000														
	Larkin (1970-2004) ²	19,000	22,000	26,000	31,000	36,000	348,000	367,000	390,000	418,000	444,000														
Larkin (1990-2004) ²	16,000	28,000	46,000	74,000	111,000	329,000	369,000	418,000	478,000	544,000															
Fraser-S	Ricker (1950-2004)	27,000	33,000	42,000	53,000	68,000	151,000	168,000	195,000	225,000	264,000	87,500							68,000						
	Ricker (1970-2004)	28,000	34,000	43,000	59,000	76,000	152,000	170,000	192,000	238,000	274,000														
	Ricker (1990-2004)	44,000	57,000	79,000	102,000	130,000	155,000	172,000	197,000	219,000	246,000														
	Ricker (1950-2004)(smoothed)	49,000	58,000	67,000	79,000	90,000	78,000	84,000	90,000	98,000	107,000														
	Kalman (1950-2004)	65,000	79,000	96,000	117,000	140,000	99,000	129,000	164,000	205,000	249,000														
	Larkin (1950-2004) (smoothed)	5,000	6,000	8,000	10,000	15,000	68,000	73,000	79,000	86,000	94,000														
	Larkin (1950-2004)	4,000	5,000	6,000	7,000	8,000	69,000	73,000	80,000	87,000	94,000														
	Larkin (1970-2004) ²	3,000	4,000	5,000	6,000	8,000	63,000	68,000	75,000	83,000	93,000														
	Larkin (1990-2004) ²	3,000	4,000	6,000	9,000	12,000	61,000	67,000	74,000	82,000	90,000														

		Abundance (Effective Total Spawner) Lower Benchmark					Abundance (Effective Total Spawner) Upper Benchmark					Abundance (Effective Total Spawner) Arithmetic		Abundance (Effective Total Spawner) Geometric					Abundance (Effective Total Spawner) Stock Status						
Run Timing Group												Last Gen. 2006-2009		Probability Level					Last Gen. 2006-2009		Probability Level				
Conservation Unit	model (time series)	10%	25%	50%	75%	90%	10%	25%	50%	75%	90%		10%	25%	50%	75%	90%		10%	25%	50%	75%	90%		
Late Run Cultus-L	Ricker (1950-2005)	9,000	10,000	12,000	15,000	17,000	28,000	29,000	32,000	34,000	36,000	900	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	600	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>										
	Ricker (1970-2005)	8,000	10,000	12,000	15,000	18,000	27,000	29,000	32,000	34,000	36,000														
	Ricker (1990-2005)	11,000	12,000	13,000	13,000	8,000	19,000	18,000	16,000	14,000	7,000														
	Ricker (1950-2004)(smoothed)	11,000	12,000	14,000	16,000	18,000	16,000	18,000	21,000	24,000	26,000														
	Kalman (1950-2004)	8,000	11,000	13,000	16,000	18,000	7,000	15,000	22,000	30,000	36,000														
	Larkin (1950-2004) (smoothed)	5,000	7,000	9,000	13,000	19,000	13,000	15,000	19,000	26,000	40,000														
	Larkin (1950-2004)	2,000	3,000	4,000	7,000	11,000	12,000	15,000	19,000	26,000	38,000														
	Larkin (1970-2004) ^c	3,000	4,000	6,000	12,000	26,000	11,000	14,000	21,000	37,000	79,000														
Larkin (1990-2004) ^c	0	1,000	1,000	1,000	1,000	1,000	2,000	2,000	3,000	4,000															
LFR-River Type	Ricker (1950-2005)	6,000	7,000	9,000	11,000	14,000	28,000	30,000	32,000	36,000	40,000	147,700	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	80,300	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>										
	Ricker (1970-2005)	6,000	7,000	9,000	11,000	14,000	33,000	36,000	39,000	44,000	48,000														
	Ricker (1990-2005)	3,000	4,000	6,000	9,000	13,000	34,000	38,000	43,000	49,000	58,000														
	Ricker (1950-2004)(smoothed)	100	100	200	300	300	7,000	8,000	10,000	11,000	13,000														
	Kalman (1950-2004) ¹	2,000	2,000	2,000	2,000	2,000	5,000	6,000	7,000	9,000	11,000														
	Larkin (1950-2004) (smoothed)	0	1,000	1,000	1,000	1,000	9,000	10,000	11,000	12,000	13,000														
	Larkin (1950-2004)	1,000	1,000	1,000	2,000	2,000	9,000	10,000	11,000	12,000	14,000														
	Larkin (1970-2004) ²	1,000	1,000	2,000	2,000	4,000	10,000	12,000	14,000	18,000	23,000														
Larkin (1990-2004) ²	1,000	1,000	2,000	4,000	10,000	10,000	13,000	19,000	33,000	68,000															

Run Timing Group		Abundance (Effective Total Spawner) Lower Benchmark					Abundance (Effective Total Spawner) Upper Benchmark					Abundance (Effective Total Spawner) Arithmetic					Abundance (Effective Total Spawner) Geometric					Abundance (Effective Total Spawner) Stock Status					
		Conservation Unit	model (time series)	10%	25%	50%	75%	90%	10%	25%	50%	75%	90%	Last Gen. 2006-2009	Probability Level					Last Gen. 2006-2009	Probability Level						
															10%	25%	50%	75%	90%		10%	25%	50%	75%	90%		
Shuswap Complex-L	Ricker (1950-2005)	234,000	283,000	355,000	434,000	546,000	1,070,000	1,162,000	1,288,000	1,415,000	1,633,000	578,400						28,500									
	Ricker (1970-2005)	201,000	268,000	337,000	447,000	558,000	984,000	1,090,000	1,194,000	1,384,000	1,503,000																
	Ricker (1990-2005)	171,000	238,000	339,000	469,000	576,000	757,000	836,000	879,000	902,000	915,000																
	Ricker (1950-2004)(smoothed)	345,000	364,000	376,000	383,000	384,000	347,000	373,000	394,000	409,000	418,000																
	Kalman (1950-2004)	330,000	417,000	519,000	632,000	768,000	526,000	870,000	1,166,000	1,432,000	1,728,000																
	Larkin (1950-2004) (smoothed)	40,000	63,000	94,000	150,000	215,000	425,000	476,000	536,000	633,000	733,000																
	Larkin (1950-2004)	31,000	41,000	55,000	74,000	95,000	426,000	478,000	548,000	639,000	736,000																
	Larkin (1970-2004) ²	29,000	40,000	55,000	76,000	106,000	433,000	486,000	560,000	658,000	771,000																
	Larkin (1990-2004) ²	33,000	47,000	69,000	102,000	142,000	404,000	457,000	528,000	633,000	777,000																
Seton-L	Ricker (1965-2004)	0	1,000	1,000	1,000	2,000	6,000	7,000	8,000	10,000	12,000	5,300						1,400									
	Ricker (1990-2004)	1,000	1,000	2,000	4,000	7,000	6,000	7,000	10,000	14,000	23,000																
	Ricker (1950-2004)(smoothed)	1,000	1,000	2,000	2,000	3,000	5,000	5,000	6,000	7,000	9,000																
	Kalman (1965-2004)	1,000	1,000	2,000	2,000	3,000	5,000	5,000	6,000	7,000	9,000																
	Larkin (1965-2004) (smoothed)	1,000	1,000	1,000	1,000	1,000	5,000	5,000	6,000	7,000	8,000																
	Larkin (1965-2004) ²	0	1,000	1,000	1,000	1,000	5,000	5,000	6,000	7,000	8,000																
	Larkin (1990-2004) ²	1,000	1,000	1,000	2,000	3,000	6,000	7,000	9,000	11,000	17,000																
Harrison (U/S)-L	Ricker (1966-2004)	4,000	6,000	9,000	14,000	23,000	52,000	61,000	76,000	103,000	147,000	20,400						12,200									
	Ricker (1990-2004)	1,000	2,000	4,000	7,000	13,000	25,000	32,000	43,000	63,000	99,000																
	Ricker (1950-2004)(smoothed)	7,000	9,000	13,000	19,000	30,000	45,000	54,000	67,000	90,000	133,000																
	Kalman (1966-2004) ¹	11,000	19,000	38,000	69,000	95,000	77,000	120,000	219,000	368,000	488,000																
	Larkin (1966-2004)(smoothed)	4,000	4,000	6,000	8,000	11,000	39,000	44,000	52,000	66,000	83,000																
	Larkin (1966-2004) ²	2,000	2,000	3,000	5,000	6,000	39,000	44,000	51,000	65,000	78,000																
Larkin (1990-2004) ²	1,000	2,000	3,000	5,000	8,000	32,000	39,000	49,000	66,000	94,000																	
Lillooet-L	Ricker (1950-2004)	8,000	9,000	11,000	14,000	17,000	67,000	72,000	77,000	85,000	93,000	104,900						63,600									
	Ricker (1970-2004)	7,000	9,000	13,000	17,000	21,000	67,000	73,000	80,000	88,000	94,000																
	Ricker (1990-2004)	15,000	20,000	26,000	33,000	39,000	27,000	59,000	61,000	59,000	55,000																
	Ricker (1950-2004)(smoothed)	15,000	18,000	22,000	26,000	30,000	48,000	50,000	51,000	52,000	54,000																
	Kalman (1950-2004)	17,000	22,000	27,000	31,000	36,000	28,000	40,000	55,000	68,000	79,000																
	Larkin (1950-2004)(smoothed)	7,000	10,000	13,000	18,000	25,000	59,000	65,000	71,000	80,000	89,000																
	Larkin (1950-2004)	4,000	5,000	6,000	8,000	9,000	61,000	66,000	72,000	81,000	89,000																
	Larkin (1970-2004) ²	4,000	5,000	7,000	10,000	14,000	59,000	65,000	73,000	85,000	100,000																
Larkin (1990-2004) ²	5,000	8,000	13,000	20,000	30,000	45,000	52,000	62,000	76,000	96,000																	

1. For these models the Smax estimated is unrealistically high relative to those estimated with all other models; therefore these models are not recommended for benchmark considerations

2. Simulation testing indicates high time-series bias in Sopt and Sgen that increases with reduced series length; therefore, truncated Larkin models are not recommended