

Carcass Measurements and Pre-spawn Mortality Signs: Raw Data
 Miller and Walker Creeks, October 10 - December 23, 2011

Date	Location	Species	Coded Wire Tag?	Fork Length (cm)	Fish Girth (cm)	POH (cm)	Ad Fin? (Y/N)	Sex (M/F)	% Egg Retention (dead females)				Spawning Condition:				Notes
									0-25	25-50	50-75	75-100	PSM	POST	PRED	UNK	
12/23/2011	Lower Walker	Chum		63	27.5	47	Y	M						x			
12/23/2011	Lower Miller	Chum		65.5	28	50	Y	M						x			
12/22/2011	Lower Miller	Unknown														x	Very predated
12/22/2011	Lower Miller	Unknown														x	Very predated
12/22/2011	Lower Miller	Chum		65	32	48	Y	M						x			Very little milt
12/22/2011	Lower Miller	Chum		55	24	43	Y	F	x					x			
12/21/2011	Lower Miller	Chum		55	31	41	Y	M						x			
12/21/2011	Upper Walker	Chum		56	31.5	45	Y	F						x			
12/20/2011	Lower Miller	Chum		65	30.5	51	Y	M						x			Some milt seen when squeezed and a bit inside; hooked nose; hence identified as a male, but see photos
12/20/2011	Middle Miller	Chum		59		46									x		Badly predated - head mostly gone, though we could estimate the position of the eye. Back eaten (so couldn't see any ad fin). Lower parts eaten so couldn't complete the necropsy or measure the girth.
12/19/2011	Lower Miller	Chum		50	25	40	Y	F						x			Fish ID code different from Spawning condition code; asked Merry Ann
12/19/2011	Lower Miller	Chum		48	25	39	Y	F						x			Fish ID code different from Spawning condition code; asked Merry Ann
12/19/2011	Lower Miller	Chum		53	25	43.5	Y	M						x			Fish ID code different from Spawning condition code; asked Merry Ann
12/19/2011	Upper Walker	Chum		49	25.5	40	Y	F						x			Fish ID code different from Spawning condition code; asked Merry Ann
12/19/2011	Upper Walker	Chum		54	30	43	Y	M					x				Fish ID code different from Spawning condition code; asked Merry Ann
12/19/2011	Upper Walker	Chum		53	30	41	Y	F					x				Fish ID code different from Spawning condition code; asked Merry Ann
12/18/2011	Lower Miller	Chum		52	24	50	Y	F	x					x			
12/18/2011	Lower Walker	Chum		62	28	48	Y	M						x			
12/18/2011	Lower Walker	Chum		70	29	55	Y	F	x					x			
12/18/2011	Lower Walker	Chum		76	36	60	Y	M						x			
12/18/2011	Lower Walker	Chum		62	29	49	Y	M						x			
12/18/2011	Lower Miller	Chum		63	28	50	Y	F	x					x			
12/18/2011	Lower Miller	Chum		62	26	52	Y	F	x					x			
12/18/2011	Lower Miller	Chum		62	28	49	Y	M					x				
12/18/2011	Upper Walker	Chum		58	25	46	Y	M						x			
12/18/2011	Upper Walker	Chum		62	26	47	Y	M						x			
12/17/2011	Lower Miller	Unknown														x	Floating in pond, can't reach it
12/17/2011	Lower Miller	Chum		61		47	Y	M							x		
12/17/2011	Lower Miller	Chum		62	28	51	Y	M			x						No predation
12/17/2011	Upper Walker	Chum		66	27	56	Y	F	x					x			
12/17/2011	Upper Walker	Chum		59.5	25	49	Y	F	x					x			
12/17/2011	Upper Walker	Chum		61	28	51	Y	F	x					x			
12/16/2011	Lower Miller	Chum		62	30.5	45	Y	M					x				Brown gills, much milt
12/15/2011	Lower Walker	Chum		61		46										x	Predated
12/15/2011	Lower Walker	Chum	N	53	25	38	N								x		
12/15/2011	Lower Miller	Chum	N	60		48	N									x	Predated

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									0-25	25-50	50-75	75-100	PSM	POST	PRED	UNK	
12/15/2011	Lower Miller	Unknown		66										x		Predated - can't tell species	
12/15/2011	Upper Walker	Chum		66	32	47	Y	M						x			
12/15/2011	Upper Walker	Chum		56	26	44	Y	F	x					x			
12/15/2011	Upper Walker	Chum		64	29	48.5	Y	M						x			
12/15/2011	Upper Walker	Chum		63.5	26	50	Y	F	x					x			
12/13/2011	Lower Walker	Chum		58.5	26	45.5	Y	M						x		In beaver pond. No trace of eggs or milt inside fish. Possibly some milt from anus/vent when squeezed before opening up. However, head shape looked very like a male. See photos.	
12/13/2011	Lower Miller	Chum					Y							x		No head, only part of body left.	
12/13/2011	Lower Miller	Chum		60	26	47.5	Y	F	x					x			
12/13/2011	Lower Miller	Coho					Y							x		See photos. Fish appeared to have lots of spots. Only the tail and part of the skin was found. Not sure species. Coho verified from photos - EO	
12/13/2011	Lower Miller	Chum		60.5	26	49.5	Y	F	x					x		very freshly dead	
12/13/2011	Upper Walker	Unknown	N	53	24	40		M						x		Male 'cos of shape of head. Practically no fins to be seen, so presence of adipose fin could not be determined. Head taken. Very moldy looking. See photos.	
12/11/2011	Lower Miller	Chum		63.5	29	50	Y	M						x			
12/11/2011	Lower Miller	Coho		44.5	19	34	Y	M							x		
12/11/2011	Upper Walker	Chum		61	25	52	N	F	x					x			
12/11/2011	Upper Walker	Chum		63	29	49	Y	M						x			
12/11/2011	Upper Walker	Chum		64	28	50	Y	M					x				
12/11/2011	Upper Walker	Chum		66	29	54	Y	M						x			
12/10/2011	Upper Walker	Chum		50	33	42	Y	F	x					x			
12/9/2011	Lower Walker	Coho	N	56	26.5	38	N	M							x	Near mouth, fairly old but not excessively deteriorated	
12/9/2011	Lower Miller	Chum		68	29	50.5	Y	M						x		No predation	
12/9/2011	Lower Miller	Chum		65	29	49	Y	F							x	Apparently predated before spawning	
12/9/2011	Lower Miller	Coho	N	64.5	29.5	47.5	N	F			x	x				Predated	
12/9/2011	Lower Miller	Chum		57	27	44.5	Y	M						x			
12/9/2011	Upper Walker	Chum		62	28	48.5	Y	F	x					x			
12/9/2011	Upper Walker	Chum		58	26	47	Y	F	x					x			
12/9/2011	Middle Miller	Chum		60		47	Y	F							x	Girth is low (25cm) due to predation, percent egg retention unknown.	
12/8/2011	Lower Miller	Chum					Y								x	Too deep to recover	
12/8/2011	Lower Miller	Chum		63	29.5	49	Y	M						x			
12/8/2011	Lower Miller	Chum					Y								x	Very predated	
12/8/2011	Lower Miller	Chum		64		48	Y	F	x						x	Predated	
12/8/2011	Middle Miller	Chum		61	29.5	48	Y	F	x					x			
12/7/2011	Lower Miller	Chum	N	59	25	42	N	M						x			
12/7/2011	Upper Walker	Chum		65	28	45	Y	M					x			Milt appeared present	
12/6/2011	Lower Miller	Chum					Y	M							x	Only a head and a tail, joined by a little skin (though enough to see the adipose fin), so no measurements could be taken.	

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									0-25	25-50	50-75	75-100	PSM	POST	PRED	UNK	
12/6/2011	Lower Miller	Chum					Y	M							x		Only a head and a tail, joined by a little skin (though enough to see the adipose fin), so no measurements could be taken.
12/6/2011	Lower Walker	Chum					Y								x		Only a head and a tail, joined by a little skin (though enough to see the adipose fin), so no measurements could be taken.
12/5/2011	Lower Miller	Chum		49.5	28	39	Y	M						x			Completely spawned out. Found by bridge 4.
12/4/2011	Upper Walker	Chum		59	25.5	46.5	Y	M						x			
12/4/2011	Upper Walker	Chum		61	24.5	49.5	Y	F	x					x			
12/3/2011	Middle Miller	Coho	N	49	21	37	Y	M								x	
12/3/2011	Middle Miller	Chum													x		Unable to take measurements due to predation.
12/2/2011	Lower Miller	Chum					Y	M							x		Big chunk out of middle - spine not connected, so no measurement. Some milt but ?
12/2/2011	Lower Walker	Coho	N	59	25	49	N	F	x					x			Beat up tail, end partle eaten, very decomposed, just a few (a dozen) eggs
12/2/2011	Lower Walker	Coho	N				N	M							x		Heavily predated, unable to tell spawning status
12/2/2011	Lower Walker	Coho		49	20	37	Y	M						x			Decomposed - jack?
12/2/2011	Upper Walker	Coho		45	22	36	Y	M						x			Jack - small - decomposed, no pred. Milt amount hard to say.
12/2/2011	Middle Miller	Chum		60	24	49	Y	F	x						x		Bite out of abdomen - (something ate her to get eggs?)
12/1/2011	Lower Miller	Chum		62	28.5	48.5	Y	M								x	
12/1/2011	Lower Miller	Chum		62	26	49	Y	F						x			
12/1/2011	Lower Walker	Unknown					Y								x		Very predated, can't tell species, status
11/29/2011	Lower Miller	Chum					Y								x		Seriously predated
11/29/2011	Lower Miller	Chum		64		51	Y	F							x		Predated = chunk of belly missing; 1 egg found
11/29/2011	Lower Miller	Unknown														x	Skin & tail only; may be chum - no spots on tail
11/29/2011	Lower Miller	Unknown														x	Head, skin & tail only; found near other unknown.
11/29/2011	Lower Miller	Coho														x	Probably coho. Very red gill cover/red on upper body/ spots on tail; predated
11/29/2011	Lower Walker	Coho		45.5	21	34	N	F	x					x			No eggs or milt sac seen; not much hook of nose
11/29/2011	Upper Walker	Unknown		55	22.5	42		M						x			Dead long time! Not predated. Skin yellow w/ patches of gray fungus; very hooked nose (M?)/sharp teeth (photos)
11/29/2011	Upper Walker	Chum					Y									x	Predated, with no head
11/29/2011	Upper Walker	Unknown		69		50	Y								x		Faded color; mildly hooked nose; no internal organs at all
11/29/2011	Middle Miller	Coho	N	61	30.5	46	N	F			x	x					Fresh; spots on back; a few spots on tail; red gill cover; white gums; lower jaw (photos)
11/29/2011	Middle Miller	Coho	N	63	30.5	48	N	F			x	x					Fresh; found near other coho; similar features (no photo)
11/28/2011	Upper Walker Creek	Chum		55.5	32.5	38	Y	F			x	x					
11/27/2011	Lower Walker	Coho	N	73.5	37	55.5	N	M								x	In beaver pond - same as past 2 days - no pred, intact full milt sacs
11/27/2011	Lower Miller	Coho	N	65	34	48	N	M								x	Part of head eaten, seems that 50-75% of milt remains
11/27/2011	Upper Walker Creek	Chum		68	27.5	53	N	F	x					x			Some minor predation
11/26/2011	Lower Walker	Unknown														x	On opposite bank of beaver pond, being eaten by ducks.
11/25/2011	Lower Miller	Coho	N	48.5	25	42	N	M								x	Photos taken on Elissa's iPhone. Took head.
11/25/2011	Lower Miller	Coho					Y	F	x						x		Too eaten to measure - most of back & stomach eaten. Removed tail, not head.
11/25/2011	Lower Walker	Coho	N	68	35	52	N	M						x			At swim club. Tail & snout removed.

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11/20/2011	Lower Miller	Chum		52		48	N	F							x		Heavily predated
11/20/2011	Middle Miller	Coho	N	59	32	46	N	F				x	x				Splayed fins
11/20/2011	Middle Miller	Unknown													x		Head upper only; tail & body upstream.
11/20/2011	Middle Miller	Unknown	N	56		41		M							x		Heavily predated; unknown adipose.
11/18/2011	Upper Walker Creek	Coho		n/a	n/a	n/a	Y	n/a								x	Very deteriorated, could not get data - pretty small
11/18/2011	Upper Walker Creek	Coho		62	25	48	N	F	x					x			Too deteriorated to get head - pretty small
11/18/2011	Lower Miller Creek	Unknown		n/a	n/a	n/a	N	n/a								x	Too deteriorated to get data - removed tail
11/17/2011	Lower Miller Creek	Coho		61	27.5	43	Y	F				x	x				Photo taken - very silver, no spots
11/17/2011	Upper Walker Creek	Coho	N	53	25	41	N	F	x					x			
11/16/2011	Lower Miller Creek	Coho	N	51	26	37	N	F				x		x			
11/16/2011	Lower Miller Creek	Coho	N	62	41	43	N	M				x		x			About 50% of milt remaining
11/16/2011	Lower Miller Creek	Coho	N	67	31	53	N	F				x					No sign of predation. Could be slow-moving female in same area seen yesterday.
11/15/2011	Lower Miller Creek	Coho	N	65	n/a	49.5	N	M							x		Milt sacs partially gone, head & tail intact
11/15/2011	Lower Miller Creek	Coho		n/a	n/a	n/a	Y	n/a								x	Seriously predated; no organs-tail very forked, resembles pink, but spots not visible
11/15/2011	Upper Walker Creek	Coho		n/a	n/a	n/a	Y	M							x		Predated, but can see some milt in pieces of milt sac remaining
11/15/2011	Upper Walker Creek	Coho	N	n/a	n/a	n/a	N	M							x		Seriously predated; piece of 1 milt sac only.
11/15/2011	Middle Miller Creek	Coho	N	49	n/a	40	N	F							x		No egg sacs; serious predation
11/15/2011	Middle Miller Creek	Coho	N				N	F	x						x		Few eggs but most of belly was eaten - upper Fish property
11/15/2011	Middle Miller Creek	Coho		71		57	N	F	x						x		Few eggs but most of belly was eaten - upper Fish property
11/14/2011	Lower Walker Creek	Coho		58	37.5	44	N	F	x					x			4 eggs left. Not sure wehre.
11/13/2011	Lower Miller Creek	Coho	N	67	32	55	N	M						x			Head in Nelson's freezer
11/13/2011	Middle Miller Creek	Unknown					N	n/a								x	Massively decayed between head and tail, still had tail
11/13/2011	Middle Miller Creek	Unknown					N	n/a								x	Massive decay between head and tail, still had tail
11/13/2011	Lower Miller Creek	Coho		54.5	26.5	43.5	Y	F	x					x			
11/13/2011	Upper Walker Creek	Coho		56	25	43	N	M						x			
11/11/2011	Lower Miller Creek	Coho		n/a	n/a	n/a	n/a	n/a							x		Near 1st bridge (homeowner's) inaccessible, tail still on, heavily predated
11/11/2011	Lower Miller Creek	Coho					Y								x		Heavily predated
11/11/2011	Middle Miller Creek	Unknown					n/a	F							x		Badly predated, eggs all around, probably coho
11/9/2011	Lower Miller Creek	Coho		48	31	38	Y	F	x					x			
11/9/2011	Lower Miller Creek	Coho	N	59.5	43.5	43	N	M						x			
11/6/2011	Middle Miller Creek	Coho		56	26	44	N	F	x					x			White fungus. Missing eyes.
11/5/2011	Lower Miller Creek	Coho		n/a	n/a	n/a	n/a	n/a								x	Very decomposed
11/5/2011	Lower Miller Creek	Coho		64.5	29.5	50.5	N	F	x					x			Male type hook nose
11/5/2011	Lower Miller Creek	Coho		63.5	32	47	N	F	x					x			
11/5/2011	Lower Miller Creek	Coho	Y	59	26.5	45	N	F	x					x			CWT fish had no number, but was medium-sized female coho, collected before 11/16/11.
11/5/2011	Middle Miller Creek	Coho		56.5	31	49.5	Y	F				x	x				
11/4/2011	Lower Miller Creek	Coho	N	62	26	48	N	F		x				x			Pink gills
11/4/2011	Lower Miller Creek	Coho	Y	62	28	50	N	F	x					x			Gills brown

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11/4/2011	Middle Miller Creek	Coho		51	26	n/a	Y	M						x			Appears to have successfully spawned; signs of predation
11/4/2011	Middle Miller Creek	Coho	N	73	42	55	N	M						x			Big! 25-30 lbs
11/4/2011	Middle Miller Creek	Coho		63	30	48	Y	F				x	x				No predation
11/4/2011	Middle Miller Creek	Coho	N	55	27	38	N	M								x	No predation
11/4/2011	Middle Miller Creek	Coho	N	63	29	44	N	M						x			Some milt retained
11/3/2011	Middle Miller Creek	Coho	N	67	n/a	n/a	n/a	M								x	
11/3/2011	Middle Miller Creek	Coho		n/a	n/a	n/a	N	F				x	x				Predated, most of head missing
10/31/2011	Lower Miller Creek	Coho		47	30.5	38.5	Y	F				x	x				90 % of eggs remaining
10/31/2011	Upper Walker Creek	Coho		44	30.5	42.5	Y	M	x					x			
10/31/2011	Middle Miller Creek	Coho		30	21.5	31	N	F				x	x				Head collected
10/30/2011	Lower Miller Creek	Coho		48	22	36	N	M						x			
10/30/2011	Middle Miller Creek	Coho		78	42	59	N	M						x			
10/30/2011	Middle Miller Creek	Coho		62	28	50	N	F	x					x			Heavily predated, top jaw missing
10/30/2011	Upper Walker Creek	Coho		57	28	50	N	M						x			Moderately decayed
10/30/2011	Upper Walker Creek	Coho		57	28	48	N	F	x					x			Moderately decayed/moderately predated
10/29/2011	Lower Miller Creek	Coho	N	60	26	47	N	F	x					x			
10/29/2011	Lower Miller Creek	Coho	N	63	29.5	48	N	F	x					x			
10/29/2011	Lower Miller Creek	Coho	N	50	26	38	N	F	x					x			
10/29/2011	Lower Miller Creek	Coho		58	31	44	Y	F				x	x				
10/29/2011	Lower Miller Creek	Coho	N	58	27	44	N	F	x					x			
10/29/2011	Lower Miller Creek	Coho	N	72	40	51	N	M						x			
10/29/2011	Lower Miller Creek	Coho	N	58	30.5	46	N	F								x	
10/29/2011	Lower Miller Creek	Coho	N	51.5	28	37	N	M								x	
10/29/2011	Middle Miller Creek	Coho		51	25.5	36.5	Y	M								x	
10/29/2011	Middle Miller Creek	Coho		53.5	28	40	Y	F				x	x				Mature eggs
10/29/2011	Middle Miller Creek	Coho	N	68	36	49	N	F				x	x				Mature eggs
10/29/2011	Middle Miller Creek	Coho	N	66	29	42.5	N	F				x	x				Mature eggs
10/28/2011	Middle Miller Creek	Coho		n/a	n/a	n/a	n/a	n/a							x		Eaten by something (only bones remaining)
10/27/2011	Lower Walker Creek	Coho		64	31	45.5	N	M								x	
10/27/2011	Middle Miller Creek	Coho		n/a	n/a	n/a	n/a	n/a								x	Very decomposed
10/26/2011	Middle Miller Creek	Coho	N	n/a												x	Heads without bodies - saved 2 heads
10/25/2011	Middle Miller Creek	Coho		n/a	n/a	n/a	n/a	n/a								x	Head, milt sacs (intact), bones, tail found separately, did not look cut off, but couldn't tell for sure.
10/23/2011	Middle Miller Creek	Coho		59	31	35.5	Y	F				x	x				Freshly dead
10/23/2001	Middle Miller Creek	Coho		59.5	30	45.5	N	M								x	Freshly dead
10/21/2011	Lower Miller Creek	Coho	N	64	29.5	42	N	M						x			Gills clean, some milt retained(at Lower miller by private bridge)
10/21/2011	Lower Miller Creek	Coho		71	31	46	Y	M						x			No evident spots, slight vertical markings, not sure species.
10/21/2011	Lower Miller Creek	Coho		69	34	44	Y	M						x			Gills clean in prime condition
10/20/2011	Lower Miller Creek	Coho	N	n/a	n/a	n/a	n/a	M								x	Too deep to reach, in center of lowest part of channel.

