

Path History Compilation

Path #	Path Group	Begin Date	End Date	Size	Start Elev.	Stop Elev.	Notes	DOT CL 2012	Hits to 2012 CL - Weighted For Partial Years	CL plus 40m	Plus 40m Hits	Plus 40m Hits - Weighted For Partial Warm Years	<- added average number/year to 96/97 spring ob's
LC001	Berners Bay	DOT Centerline 8/6/03				67	0 hits	75	0	115	2	2	
		03/14/00	03/27/00	3		115							
		04/17/00	05/28/00	3	1100	100	largest observed on this path. Debris 30m W x 3m D.						
LC002	N Kensington	DOT Centerline 8/6/03				11	5 hits	12	5	52	5	5	
		unknown	96/97 Rpt.	3		0	300m W x 4m thick at toe			0			
		03/14/00	04/08/00	3	1615	0	1-2m thick, 800m W, 2.9km L; debris lobes 80 m W x 3-10m D (SE), x 55m W x 2-6m D (NW); large main debris pile 300m W x 1-12m D; largest observed on this path; multiple events (3+) likely			0			
		02/10/02	02/16/02	3	~1500	40	S lobe to 90m, 150m W x 1-4m D; mid-lobe to 40m, 200m W x 1-6m D; N lobe to 60m, 100m W x 2-10m D			40			
LC003	N Kensington	DOT Centerline 8/6/03				27	0 hits	89	0	129	1	1	
		03/01/02	03/02/02			110	15-30m W x 1-2m D						
LC003-1	N Kensington	DOT Centerline 8/6/03				34	0 hits	100	0	140	0	0	
LC004	N Kensington	DOT Centerline 8/6/03				28	0 hits	135	0	175	0	0	
LC005	Eldred Rock	DOT Centerline 8/6/03				13	2 hits	114	2	154	8	8	
		12/18/95	01/01/96			130	30m w x 1-2 m D						
		unknown 96/97					90	observed in May, no size					
		04/04/98	04/06/98			150	10m W x 2-3m D						
		03/14/00	04/08/00			140							
		12/22/01	12/24/01			150							
		01/23/02	01/25/02			150							
		02/10/02	02/16/02			150							
	03/01/02	03/02/02			150								
LC005-1	Eldred Rock	DOT Centerline 8/6/03				22	0 hits	120	0	160	5	5	
		19970127	19970127			150							
		12/21/97	12/25/97			150							
		03/14/00	04/08/00			150							
		12/29/00	01/04/01			160							
		01/23/02	01/25/02			150							
LC006	Eldred Rock	DOT Centerline 8/6/03				14	11 hits	115	13	155	16	17.5	
		12/18/95	01/01/96			100	40m W x 1-3 m D						
		03/10/96	03/18/96			90	45m W x 1-2m D						
		unknown	96/97 Rpt.	3		0	100-200m W x 2-3m thick at toe			0			
		12/10/97	12/11/97	3	1070	10	debris 50m W x 2-4m D			10			
		12/21/97	12/25/97	3	1400	150	debris 60m W x 1-2m D			10			
		04/04/98	04/06/98			100	30m W x 1-2m D						
		03/14/00	04/08/00	3	~1310	0	debris 120m W x 2-15m D; largest observed on this path; multiple events (2+) likely			0			
		03/18/00	03/24/00	2	900+	20	debris 10-40m W x <.5-6m D			20			
		01/31/01	02/01/01			135	30m W X 0.5-2M D						
	02/12/01	02/14/01	2	800+	0	debris 10m W x 0-2m D			0				

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		03/18/01	03/24/01			20	10-40m W x 0.5-6m D						
		11/13/01	11/23/01	3		120							
		12/22/01	12/24/01	3	~1300	0	debris 25m W x 1-4m D			0			
		01/23/02	01/25/02	3	~1400	0	debris 20m W x 1-3m D			0			
		03/01/02	03/02/02			125							
LC007	Eldred Rock	DOT Centerline 8/6/03				13	1 hits	70	1	110	1	1	
		03/05/01	03/12/01			110	10m W x 0.5-2m D						
LC008	Eldred Rock	DOT Centerline 8/6/03				12	0 hits	44	0	84	2	2	
		12/22/01	12/24/01	3		75							
		01/23/02	01/25/02	3		75	20m W x 1-3m D						
LC009	Eldred Rock	DOT Centerline 8/6/03				12	7 hits	100	7	140	7	7	
		02/22/96	02/24/96	3	300	30	path greased by water ice from long cold spell; debris 15m W x 2m D			30			
		unknown 96/97				60							
		12/21/97	12/25/97	1	300	50	debris 10m W x 1mD						
		01/20/98	01/27/98			90	10m W x 1m D						
		12/22/01	12/24/01	3	~300	30	debris 10m W x 1-3m D			30			
		03/05/01	03/12/01	3		70							
		01/23/02	01/25/02	3	~300	0	debris 10-20m W x1-3m D						
LC010	Eldred Rock	DOT Centerline 8/6/03				12	6 hits	110	7	150	8	8	
		02/22/96	02/24/96	3	450	0	path greased by water ice from long cold spell; debris 15m W x 2m D			0			
		unknown 96/97				150							
		12/21/97	12/25/97	1	460	50	debris 10m W x 0-1m D						
		03/14/00	04/08/00	3		130							
		03/05/01	03/12/01	3		100							
		12/22/01	12/24/01	3	425	0	debris 10-20m W x 1-3m D			0			
		01/23/02	01/25/02	3	~425	0	debris 15m W x 0-1m D			0			
		02/10/02	02/16/02	3	365	0	debris 10-20m W x 1-2m D			0			
LC011	Eldred Rock	DOT Centerline 8/6/03				12	4 hits	107	4	147	5	5	
		02/22/96	02/24/96	3		0	path greased by water ice from long cold spell; debris 15m W x 2m D			0			
		unknown	96/97 Rpt.	3		50	10m W x 1-2m thick at toe						
		03/14/00	04/08/00	3		130							
		12/22/01	12/24/01	3	365	0	debris 10-15m W x 0-3m D			0			
		02/10/02	02/16/02	3		0	debris 10-20m W x 1-2m D			0			
LC012	Eldred Rock	DOT Centerline 8/6/03				14	8 hits	158	8	198	8	8	
		12/18/95	01/01/96			120							
		12/21/97	12/25/97			150							
		03/25/98	04/01/98			150							
		03/14/00	04/08/00	3		50							
		12/22/01	12/24/01	3		120	20m W x 1-4m D						
		01/23/02	01/25/02			120	20m W x 1-2m D						

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		02/10/02	02/16/02			80	both gullies, 10m W x 0-1m D						
		03/01/02	03/02/02			150							
LC013	Eldred Rock	DOT Centerline 8/6/03				17	0 hits	42	0	82	1	1	
		03/14/00	04/08/00	3	~1460	50	debris 30m W x 2-5m D; largest observed on this path; single event likely			50			
LC014	Eldred Rock	DOT Centerline 8/6/03				16	13 hits	83	16	123	13	13.5	
		12/18/95	01/01/96	3	550	20	probably slab; debris 10-40m W x .7-3m thick						
		03/10/96	03/18/96	3	400	30	debris 30m W x .2-.3m thick						
		03/21/96	03/22/96	3		5	debris 10m W x .2-.7m thick			5			
		unknown	96/97 Rpt.	3		10	10m W x 1-2m thick at toe						
		03/14/00	04/08/00	3	~1220	10	debris 20m W x 1-4m D; single event likely			10			
		01/31/01	02/01/01	3		80	20m W x 1-3m D						
		02/12/01	02/14/01	3		60	15m W x 0.5-1.5m D						
		03/05/01	03/12/01	2	800+	35	debris 40m W x 2-5m D						
		03/18/01	03/24/01	3		60							
		12/22/01	12/24/01	3	~1000	5	debris 10-20m W x 1-4m D			5			
		01/23/02	01/25/02			70	10-20m W x 1-3m D						
		02/10/02	02/16/02	2	~1200	35	debris 10m W x 0-1m D						
		03/01/02	03/02/02	3	~1200	5	debris 20m W x .5-4m D			5			
LC015	Eldred Rock	DOT Centerline 8/6/03				14	0 hits	140	0	180	0	0	
LC016	S Yeldagalga	DOT Centerline 8/6/03				11	0 hits	246	0	286	0	0	
LC017	S Yeldagalga	DOT Centerline 8/6/03				15	0 hits	176	0	216	2	2	
		12/21/97	12/25/97			210							
		03/14/00	04/08/00	3		185							
LC018	S Yeldagalga	DOT Centerline 8/6/03				11	10 hits	124	11	164	11	11	
		02/09/96	02/10/96			120							
		unknown	96/97 Rpt.	3		25	20m W x 2-3m thick at toe						
		12/21/97	12/25/97			120							
		03/14/00	04/08/00	3	~1310	40	debris 25m W x 2-4m D; single event likely						
		02/12/01	02/14/01	2	800+	25	debris 25m W x 1-4m D			25			
		03/05/01	03/12/01	3	700+	40	debris 30m W x 1-4m D						
		03/18/01	03/24/01	2	850+	50	debris 30m W x .5-1.5m D						
		04/21/01	04/23/01	3	800+	25	debris 25m W x 1-4m D			25			
		12/22/01	12/24/01	3	~1200	30	debris 20m W x .5-3m D			30			
		02/10/02	02/16/02	2	~1200	40	debris 20m W x 1-3m D			40			
		03/01/02	03/02/02			150	20-40m W x 1-2m D						
LC019	S Yeldagalga	DOT Centerline 8/6/03				11	13 hits	116	14	156	13	13.5	
		02/09/96	02/10/96	3	1400	20	debris 25m W x 2-3m thick at toe						
		unknown	96/97 Rpt.	3		0	50-75m W x 2-3m thick at toe						
		12/10/97	12/11/97	3	1400	10	N side of upper bowl; debris 15m W x 2-3 m D						
		12/21/97	12/25/97			70							

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		03/14/00	04/08/00	3	~1525	0	debris 90m W x 2-15m D; largest observed on this path; multiple (2+) events likely			0				
		11/20/00	11/22/00	3		100	20m W x 1-3m D							
		01/14/01	01/19/01	3		100	10m W x <1m D							
		01/31/01	02/01/01	3		80	25m W x 0.5-3m D							
		03/05/01	03/12/01	3	900+	15	debris 10m W x 1-4m D							
		04/21/01	04/23/01	3	800+	0	S debris lobe 25m W x 2-4m D; N debris lobe 20m W x 2-4m D			0				
		12/22/01	12/24/01			80	15m W x 1-3m D							
		02/10/02	02/16/02			75	20m W x 1-4m D							
		03/01/02	03/02/02	2	800	50	debris 15m W x 0-3m D			50				
LC019-1	S Yeldagalga	DOT Centerline 8/6/03				29	1 hits		160	2	200	2	2	
		03/05/01	03/12/01	3		180								
		12/22/01	12/24/01			120								
LC020	S Yeldagalga	DOT Centerline 8/6/03				19	9 hits		72	10	112	11	11	
		02/09/96	02/10/96	3	850	0	debris 30-60m W x 1-5 thick; went well into water			0				
		03/10/96	03/18/96	3	350+	0	debris 30-60m W x .3-1m thick			0				
		unknown	96/97 Rpt.	3		0	50-100m W x 4m thick at toe							
		03/14/00	04/08/00	3	~1525	0	debris 90m W x 2.8m D; largest observed on this path; multiple (2+) events likely			0				
		01/31/01	02/01/01	350+		100	5m W x 2m D							
		03/05/01	03/12/01	3	800+	5	debris 8m W x <.5-2m D							
		02/12/01	02/14/01	2	900+	0	debris 25m W x 0-2m D			0				
		03/18/01	03/24/01	3	800+	0	debris 5-40m W x 1-3m D			0				
		12/22/01	12/24/01	3	~1065	0	debris 20-90m W x 0-3m D			0				
		01/23/02	01/25/02	3	~1050	0	debris 20-100m W x 1-3m D			0				
		02/10/02	02/16/02			100	15m W x 0.5-3m D							
LC021	S Yeldagalga	DOT Centerline 8/6/03				11	16 hits		45	21	85	16	16.5	
		12/18/95	01/01/96	3	600	0	big slab; 100m W x 3-6m thick (at water); went well out into water			0				
		02/09/96	02/10/96	3	1200	0	debris 15-30m W x 1-3m thick; went out into water			0				
		03/10/96	03/18/96	3	350	0	debris 80m W x .3-1.5m thick			0				
		unknown	96/97 Rpt.	3		0	200m W x 3-6m thick at toe; from multiple events							
		12/21/97	12/25/97	3	1370	20	center of main bowl; debris 15m W x 1-3m D							
		03/14/00	04/08/00	3	~1525	0	debris 200m W x 3-15m D; largest observed on this path; multiple (2+) events likely			0				
		01/14/01	01/19/01	3	900+	0	debris 25m W x 1-3m D			0				
		01/31/01	02/01/01	3	900+	0	debris 100m W x 1-10m D			0				
		02/12/01	02/14/01	2	900+	35	debris 50m W x .5-2m D							
		03/05/01	03/12/01	3	900+	0	debris 110m W x 1-5m D			0				
		03/18/01	03/24/01	3	900+	0	debris 100m W x <.5-2m D			0				
		04/21/01	04/23/01	3	800+	0	debris 100m W x <.5-1.5m D			0				
		12/22/01	12/24/01	3	~1400	0	debris 20-70m W x 1-4m D			0				

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		01/23/02	01/25/02	3	~1400	0	debris 50m W x 1-3m D			0			
		02/10/02	02/16/02	3	~1400	0	debris 20-110m W x 1-5m D			0			
		03/01/02	03/02/02	1	~1400	0	debris 20-110m W x 1-5m D			0			
LC022	S Yeldagalga	DOT Centerline 8/6/03				11	0 hits	73	0	113	0	0	
LC023	S Yeldagalga	DOT Centerline 8/6/03				15	11 hits	112	12	152	15	15	
		02/09/96	02/10/96			60							
		unknown	96/97 Rpt.	3		50	10-20m W x 1-2m thick at toe						
		12/21/97	12/27/97			110							
		03/14/00	04/08/00	3		100	multiple 2+						
		12/29/00	01/04/01	3		150	5m W x 0.5 m D						
		01/14/01	01/19/01	2		140	20m W x 1-2m D						
		01/31/01	02/01/01	2		140	30m W x 1-4m D						
		02/12/01	02/14/01	2		130	20m W x 0.5-2m D						
		03/05/01	03/12/01	2		70	5m W x 0.5-2m D						
		03/18/01	03/24/01	2		80	5m W x 0.5-2m D						
		12/22/01	12/24/01	3	~1065	0	debris 10-20m W x 0-2m D			0			
		01/23/02	01/25/02	3	~1065	40	debris 20m W x 0-2m D						
		02/10/02	02/16/02	3	~1065	35	debris 20m W x 1-3m D			35			
		03/01/02	03/02/02			110	20-40m W x 1-3m D						
LC024	S Yeldagalga	DOT Centerline 8/6/03				22	5 hits	60	7	100	16	16	
		02/23/96	02/24/96	3	1100	25	debris 10-50m W x .3-1.5 thick						
		03/10/96	03/18/96	3	300+	15	debris 10-50m W x .3-2m thick			15			
		12/21/97	12/25/97			100							
		01/20/98	01/27/98			100							
		03/25/98	04/01/98			95							
		03/14/00	04/08/00	3		90	multiple 2+						
		01/14/01	01/19/01	2		80	70m W x 1-3m D						
		01/31/01	2/01/01	2		90	70m W x 0.5 - 3m D						
		02/12/01	02/14/01	2		75	30m W x 0.5-1.5m D						
		03/05/01	03/12/01	2		90	40m W x 1-4m D						
		03/18/01	03/24/01	2		80	40m W x 0.5-2m D						
		12/22/01	12/24/01	3	~915	20	debris 10-40m W x 1-3m D			20			
		01/23/02	01/25/02	3	~915	45	debris 20m W x 0-2m D			45			
		02/10/02	02/16/02	3	~915	50	debris 20m W x 1-3m D			50			
		03/01/02	03/02/02			70	20m W x 1-3m D						
LC025	N Yeldagalga	DOT Centerline 8/6/03				52	15 hits	243	17	283	15	15	
		unknown	96/97 Rpt.	3		15	10m W x 1-2m thick at toe			15			
		01/27/98	01/27/98			180							
		04/07/98	04/11/98			160							
		03/14/00	04/08/00	3		100							
		11/20/00	11/22/00	2		150	40m W x 1-2m D						
		12/29/00	01/04/01	2		130	50M W X 1-2M D						

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		01/14/01	01/19/01	2		80	70m W x 1-3m D							
		01/31/01	02/01/01	2		90	70 m W x 0.5-3m D							
		02/12/01	02/14/01	2	600+	75	SE gully 150m; debris 25m W x 1-3m D; NW gully 180m; debris 15m W x 1-2m D							
		03/05/01	03/12/01	3	800+	90	SE gully debris 30m W x 1-5m D; NW gully debris 5m W x <.5-2m D							
		05/06/01	05/12/01	2		170								
		03/18/01	03/24/01	2	800+	80	debris 30m W x <.5-1.5m D in S gully only			30				
		12/22/01	12/24/01	3	~1200	30	debris 10-20m W x 1-3m D			30				
		01/23/02	01/25/02	3	~1200	15	debris 15m W x 0-2m D							
		02/10/02	02/16/02	3	~1200	60	debris 15m W x .5-2m D			60				
LC026	N Yeldagalga	DOT Centerline 8/6/03				41	10 hits		196	11	236	10	10	
		03/09/96	03/18/96	2	300	60	debris 15m W x 1m thick							
		unknown	96/97 Rpt.	3		0	10m W x 1-3m thick at toe							
		03/14/00	04/08/00	3	~1070	100	debris 10m W x 1-3m D; probably single event			0				
		01/31/01	02/01/01	2	900+	40	debris 15m W x 1-3m D							
		03/05/01	03/12/01	3	900+	50	debris 30m W x 4m D							
		03/18/01	03/24/01	2	900+	40	debris 30m W x .5-1.5 D							
		12/22/01	12/24/01	3	~975	40	debris 10-35m W x 1-3m D							
		01/23/02	01/25/02	3	~1065	40	debris 20m W x 0-2m D							
		02/10/02	02/16/02	3	~1065	40	debris 25m W x 1-4m D							
		03/01/02	03/02/02	3	~1065	20	debris 20m W x 1-3m D			20				
LC026-1	N Yeldagalga	DOT Centerline 8/6/03				40	1 hits		196	1	236	1	1	
		02/12/01	02/14/01	2		145	15m W x 0.5-1.5m W							
LC027	N Yeldagalga	DOT Centerline 8/6/03				31	4 hits		142	4	182	4	4	
		03/14/00	04/08/00	3		105								
		02/12/01	02/14/01	2		150	25m W x 1-2m D							
		03/05/01	03/12/01	2		150	10m W x 0.5-1.5m D							
		02/10/02	02/16/02	3	~610	30	debris 10-30m W x 1-5m D			30				
LC028	N Yeldagalga	DOT Centerline 8/6/03				15	5 hits		135	6	175	6	6	
		unknown	96/97 Rpt.	3		0	10m W x 1-2m thick at toe			0				
		03/14/00	04/08/00	3		90								
		03/05/01	03/12/01	2		165								
		12/22/01	12/24/01	3	~610	20	debris 10m W x 0-3m D			20				
		01/23/02	01/25/02	3	~610	30	debris 10m W x 0-2m D			30				
		02/10/02	02/16/02	3	~610	40	debris 10m W x 0-2m D			40				
LC028-1	N Yeldagalga	DOT Centerline 8/6/03				12	0 hits		94	0	134	2	2	
		03/05/01	03/12/01	3		120								
		02/10/02	02/16/02			130	10-30m W x 0.5-1.5m D							
LC028-2	N Yeldagalga	DOT Centerline 8/6/03				11	0 hits		85	0	125	2	2	
		03/05/01	03/12/01	3		120								
		02/10/02	02/16/02			130	10-30m W x 0.5-1.5m D							

Path History Compilation

Path #	Path Group	Begin Date	End Date	Size	Start Elev.	Stop Elev.	Notes	DOT CL 2012	Hits to 2012 CL - Weighted For Partial Years	CL plus 40m	Plus 40m Hits	Plus 40m Hits - Weighted For Partial Warm Years	<- added average number/year to 96/97 spring ob's
LC029	N Yeldagalga	DOT Centerline 8/6/03				12	7 hits	99	8	139	7	7	
		02/09/96	02/10/96			60							
		unknown	96/97 Rpt.	3		0	10m W x 1-3m thick at toe			0			
		03/14/00	04/08/00	3	~885	10	debris 12m W x 1-4m D; probably single event						
		02/12/01	02/14/01	2	550+	8	debris 5m W x <.5-1.5m D			8			
		12/22/01	12/24/01	3	~855	40	debris 10-20m W x 0-3m D						
		01/23/02	01/25/02	3	~915	50	debris 15m W x 0-3m D						
		02/10/02	02/16/02	3	~915	15	debris 15m W x 1-3m D			15			
LC030	N Yeldagalga	DOT Centerline 8/6/03				40	0 hits	169	0	209	0	0	
LC031	N Yeldagalga	DOT Centerline 8/6/03				40	0 hits	377	0	417	0	0	
LC031-1	Wild Bird								0			0	
LC031-2	Wild Bird								0			0	
LC032	South Katzehin	DOT Centerline 8/6/03				26	0 hits	109	0	149	0	0	
LC033	South Katzehin	DOT Centerline 8/6/03				33	0 hits	111	0	151	0	0	
LC034	South Katzehin	DOT Centerline 8/6/03				48	0 hits	37	0	77	0	0	
LC035	North Katzehin	DOT Centerline 8/6/03				14	0 hits	50	0	90	0	0	

Avalanche Path Characteristics

Path #	Path Group	L Max Width ft at alignment	L Max Width m at alignment	Starting Elevation ft	Starting Elevation m	Elevation Class	Path Size	Start Type	Start Aspect	Path Type	Runout Angle	Comments	2012 changes
LC001	Berners Bay	1600	488	4900	1493	high	very large	big bowl	W	classic confined; wide track	decreases abruptly		
LC002	N Kensington	1500	457	5900	1798	high	very large	big bowl	WSW	classic confined; very wide track	decreases gradually		
LC003	N Kensington	100	30	3500	1067	high	small	broad face	WSW	narrow gully	steep		
LC003-1	N Kensington	100	30	1500	457	medium low	small	landslide scar	WSW	2001 landslide scar	decreases moderately	Stops above alignment.	
LC004	N Kensington	200	61	1000	305	low	small	open scrub forest	WSW	open scrub forest & small gully	steep		
LC005	Eldred Rock	200	61	5500	1676	high	large	big bowl	W	classic confined to bench at 600' (183m); steep gully & spillover below	abrupt bench; steep again below		
LC005-1	Eldred Rock	100	30	3100	945	high	small	slight gully	WSW	shallow gully	decreases markedly	Usually stops above alignment.	
LC006	Eldred Rock	700	213	5100	1554	high	very large	big gullied bowl	W	classic confined, angled track	decreases moderately		
LC007	Eldred Rock	100	30	2100	640	medium high	small	small bowl /gully	W	narrow gully	decreases markedly	Usually stops above alignment.	
LC008	Eldred Rock	200	61	3400	1036	high	medium	medium bowl	W	classic confined	decreases markedly		
LC009	Eldred Rock	100	30	2700	823	medium high	small	small bowl & gullies	W	narrow gully	slight decrease		
LC010	Eldred Rock	100	30	1500	457	medium low	small	narrow gully	W	narrow gully	slight decrease		
LC011	Eldred Rock	100	30	1500	457	medium low	small	narrow gully	W	narrow gully	slight decrease		
LC012	Eldred Rock	150	46	5924	1806	high	large	big bowl & broad gullies	W	bowl & gullies to bench at 500' (153m); narrow gully & spillover below	moderate decrease to bench; steep below	Usually stops above alignment.	
LC013	Eldred Rock	600	183	5300	1615	high	very large	2 big gullied bowls	W	classic confined	decreases gradually		
LC014	Eldred Rock	600	183	4700	1432	high	very large	rollover, very broad bowl	W	classic broad confined main path; infrequent broad track	decreases gradually		width increased from 2008 slides
LC015	Eldred Rock	100	30	800	244	low	small	cliff notch	WSW	gully in cliff	decreases markedly	Usually stops above alignment.	
LC016	S Yeldagalga	300	91	3200	975	high	large	glacier & rollover in big bowl	W	broad start & track; runout gully with broad spillover	decreases markedly at 700' (213m) bench	Former ice avalanche area; now inactive; slides stop well above alignment.	
LC017	S Yeldagalga	150	46	4800	1463	high	medium	broad face	W	face to bowl & gullies	decreases markedly	Usually stops above alignment.	
LC018	S Yeldagalga	125	38	4700	1432	high	medium	part of a big bowl	W	bowl to narrow gully	decreases moderately	Unusually large events may combine with LC019.	
LC019	S Yeldagalga	800	244	6300	1920	high	very large	big bowl	WSW	classic confined; broad track feeds from several areas	slight decrease	Unusually large events may combine with LC018.	
LC019-1	S Yeldagalga	100	30	3200	975	high	small	small bowl	W	narrow gully	decreases markedly	Usually stops above alignment.	
LC020	S Yeldagalga	300	91	3700	1128	high	medium	small bowl	WNW	classic confined, broad gully track	slight decrease	Very active path.	
LC021	S Yeldagalga	400	122	4800	1463	high	very large	big bowl	W	classic confined, very large bowl to broad gully track	slight decrease	Most active path studied.	
LC022	S Yeldagalga	100	30	1500	457	medium low	small	small rock slab & talus	W	small unconfined track	moderate decrease		
LC023	S Yeldagalga	100	30	2900	884	medium high	medium	rock slabs & gully	W	narrow gully	moderate decrease		
LC024	S Yeldagalga	225	69	3700	1128	high	medium	multiple rock slabs, small bowls, & gullies	W	wide scrub bowl to short confined track & runout	moderate decrease		
LC025	N Yeldagalga	325	99	4300	1311	high	medium	medium gullied bowl	W	bowl to twin gullies to single runout	decreases markedly		
LC026	N Yeldagalga	175	53	4000	1219	high	medium	multiple gullies & small bowls	WSW	multiple confined gullies to single runout	moderate decrease		
LC026-1	N Yeldagalga	100	30	1100	335	low	small	small cliff & talus	WSW	small unconfined track	moderate decrease		
LC027	N Yeldagalga	75	23	2000	610	medium low	small	narrow gully	WSW	narrow gully	moderate decrease		
LC028	N Yeldagalga	75	23	2200	671	medium high	small	2 narrow gullies	WSW	narrow gully	minimal decrease		
LC028-1	N Yeldagalga	125	38	1700	518	medium high	small	scrub forest, gully, & cliff	WSW	talus & gully in forest	moderate decrease	Usually stops above alignment.	
LC028-2	N Yeldagalga	75	23	1800	549	medium high	small	scrub forest, gully, & cliff	WSW	talus & gully in forest	moderate decrease	Usually stops above alignment.	
LC029	N Yeldagalga	75	23	3000	914	high	medium	scrub forest bowl & gullies	WSW	multiple narrow gullies to single runout	moderate decrease		
LC030	N Yeldagalga	100	30	1500	457	medium low	small	landslide scar	WSW	landslide scar	minimal decrease		
LC031	N Yeldagalga	100	30	650	198	low	small	cliff gully	WSW	narrow gully	moderate decrease		
LC031-1	Wild Bird	100	30	3400	1036	medium high	medium	broad shoulder	SW	narrow gully	moderate decrease		new path from realignment
LC031-2	Wild Bird	100	30	3400	1036	medium high	medium	broad shoulder	SW	narrow gully	moderate decrease		new path from realignment
LC032	S Katzehin	100	30	900	274	low	small	gully through cliffs	WSW	gully in forest	moderate decrease	Usually stops above alignment.	
LC033	S Katzehin	100	30	900	274	low	small	gully through cliffs	WSW	gully in forest	moderate decrease	Usually stops above alignment.	
LC034	S Katzehin	100	30	700	213	low	small	gully through cliffs	WSW	gully in forest	moderate decrease		
LC035	N Katzehin	225	69	3400	1036	high	large	multiple big bowls, faces, & gullies	WSW	confined large diagonal gully	decreases markedly		
WLC 001A		1000	305	1300	396	medium high							
WLC 001B		1000	305	1300	396	medium high							
WLC002A		940	242									32	14
WLC002B		590	206										
WLC003		0	0								Deep Max	Light Typ	
WLC004		0	0										
WLC005		240	59										
WLC006A		960	342										
WLC006B		960	383										
WLC006C		960	300										
WLC007		120	41										
WLC008		260	88										
WLC009A		478	837										
WLC009B		478	636										
WLC009C		478	524										
WLC010A		250	59										
WLC010B		250	200										
WLC010C		250	224										
WLC010D		250	200										

Avalanche Size-Frequency Relationship

return interval	frequency	size	number	number times size
300.000	0.003	5.000	1	5.000
100.000	0.010	4.500	3	13.500
30.000	0.033	4.000	10	40.000
10.000	0.100	3.750	30	112.500
3.000	0.333	3.500	100	350.000
1.000	1.000	3.250	300	975.000
0.333	3.000	3.000	900	2700.000
0.100	10.000	2.750	3000	8250.000
0.033	30.000	2.500	9000	22500.000
0.010	100.000	2.250	30000	67500.000
0.003	300.000	1.000	90000	90000.000
			avg size, 300 years	1.443
			avg size, 3 years	1.442
			difference	0.001
			avg 3 and larger, 300 years	3.122
			avg 3 and larger, 3 years	3.096
			difference on a scale of 1-5	0.026
			difference as multiplier, used to adjust widths	0.005
return interval	frequency	size	number	number times size

Calculated Avalanche Return Intervals

Calculated Avalanche Return Intervals																																						
Path #	Path Group	Calculated Plunging Hits, Warm - Cold Average Weighted to 2.6x	Calculated Deep Hits, Warm - Cold Average Weighted to 2.6x	Calculated Light Hits, Warm - Cold Average Weighted to 2.6x	Total Observed Hits to CL - Weighted For Partial Years	Total Observed Hits Plus Near-misses, CL Plus 40m	Total Observed Plunging Avalanches, Weighted For Partial Years, Hits Plus Near-misses	Total Observed Deep Avalanches, Weighted For Partial Years, Hits Plus Near-misses	Total Observed Light Avalanches, Weighted For Partial Years, Hits Plus Near-misses	Warm Years, 95 through 99, Weighted Plunging Observed Hits Only	Warm Years, 95 through 99, Weighted Deep Observed Hits Only	Warm Years, 95 through 99, Weighted Light Observed Hits Only	Warm Years, 95-96 through 98-99, Weighted Plunging Observed Hits Plus Near-misses	Warm Years, 95-96 through 98-99, Weighted Deep Observed Hits Plus Near-misses	Warm Years, 95-96 through 98-99, Weighted Light Observed Hits Plus Near-misses	Cold Years, 95 through 99, Weighted Plunging Observed Hits Only	Cold Years, 00 through 02, Weighted Deep Observed Hits Only	Cold Years, 00 through 02, Weighted Light Observed Hits Only	Cold Years, 95-96 through 98-99, Weighted Plunging Observed Hits Plus Near-misses	Cold Years, 95-96 through 98-99, Weighted Deep Observed Hits Plus Near-misses	Cold Years, 95-96 through 98-99, Weighted Light Observed Hits Plus Near-misses	Cold Years, 00 through 02, Calculated Plunging Hits, Weighted to 2.6x	Cold Years, 00 through 02, Calculated Deep Hits, Weighted to 2.6x	Cold Years, 00 through 02, Calculated Light Hits, Weighted to 2.6x	Hits Only - Fully weighted combined warm & cold calculated + estimated return interval; Plunging	Hits Only - Fully weighted combined warm & cold calculated + estimated return interval; Deep	Hits Only - Fully weighted combined warm & cold calculated + estimated return interval; Light	Hits Only - Fully weighted combined warm & cold calculated + estimated return interval; Plunging (FP)	Hits Only - Fully weighted combined warm & cold calculated + estimated return interval; Deep (FD)	Hits - Fully weighted combined warm & cold calculated + estimated return interval; Light (FL)	Hits + Near Misses - Fully weighted combined warm & cold calculated + estimated return interval; Plunging	Hits + Near Misses - Fully weighted combined warm & cold calculated + estimated return interval; Deep	Hits + Near Misses - Fully weighted combined warm & cold calculated + estimated return interval; Light	Hits + Near Misses - Fully weighted combined warm & cold calculated + estimated return interval; Plunging (FP)	Hits + Near Misses - Fully weighted combined warm & cold calculated + estimated return interval; Deep (FD)	Hits + Near Misses - Fully weighted combined warm & cold calculated + estimated return interval; Light (FL)		
LC001	Berners Bay	0.000	2.737	0.000	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300.000	30.000	10.000	0.003	0.033	0.100	300.000	2.192	1.000	300.000	0.003	0.033	0.456	1.000
LC002	N Kensington	2.368	1.368	0.000	5	5	2	1	0	1	0	0	1	0	2	1	1	0	1	1	0	1.4	1.4	0.0	3.000	6.000	1.000	0.333	0.167	1.000	2.533	4.385	3.000	0.395	0.228	0.333		
LC003	N Kensington	0.000	1.368	0.000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.000	10.000	3.000	0.010	0.100	0.333	30.000	4.385	3.000	0.033	0.228	0.333		
LC003-1	N Kensington	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300.000	30.000	10.000	0.003	0.033	0.100	300.000	30.000	10.000	0.003	0.033	0.100		
LC004	N Kensington	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	300.000	100.000	30.000	0.003	0.010	0.033	100.000	30.000	10.000	0.010	0.033	0.100		
LC005	Eldred Rock	0.000	8.842	0.000	2	8	0	8	0	2	0	0	3	6	0	0	0	0	5	0	0	0.0	6.8	0.0	30.000	3.000	1.000	0.033	0.333	1.000	30.000	0.610	1.000	0.033	1.640	1.000		
LC005-1	Eldred Rock	0.000	4.105	0.000	0	5	0	5	0	0	0	0	2	4	0	0	0	0	3	0	0	0.0	4.1	0.0	1000.000	100.000	30.000	0.001	0.010	0.033	300.000	0.983	1.500	0.003	1.018	0.667		
LC006	Eldred Rock	9.211	9.237	0.000	13	17.5	7	11	0	1	6.5	0	1	6.5	15	6	0	0	6	2	0	8.2	2.7	0.0	0.857	0.923	0.333	1.167	1.083	3.003	0.651	0.650	0.400	1.535	1.539	2.500		
LC007	Eldred Rock	0.000	1.368	0.000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0.0	1.4	0.0	30.000	10.000	3.000	0.010	0.033	0.100	30.000	4.385	3.000	0.033	0.228	0.333			
LC008	Eldred Rock	0.000	2.737	0.000	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0.0	2.7	0.0	30.000	10.000	3.000	0.033	0.100	0.333	30.000	2.192	1.000	0.033	0.456	1.000			
LC009	Eldred Rock	1.368	6.737	0.000	7	7	1	6	0	0	4	0	0	4	8	1	2	0	1	2	0	1.4	2.7	0.0	6.000	1.000	0.333	0.167	1.000	3.003	4.385	0.891	0.750	0.228	1.123	1.333		
LC010	Eldred Rock	5.105	2.737	1.000	7	8	4	4	1	1	0	1	1	1	4	3	1	0	3	2	0	4.1	2.7	0.0	1.500	6.000	6.000	0.667	0.167	0.167	1.175	1.606	1.500	0.851	0.623	0.667		
LC011	Eldred Rock	3.737	2.368	0.000	4	5	3	2	0	1	1	0	1	1	4	2	0	0	2	1	0	2.7	1.4	0.0	2.000	6.000	1.000	0.500	0.167	1.000	1.606	2.533	1.500	0.623	0.395	0.667		
LC012	Eldred Rock	0.000	9.842	0.000	8	8	0	8	0	0	0	0	3	6	0	5	0	0	5	0	0.0	6.8	0.0	30.000	0.750	1.000	0.033	1.333	1.000	30.000	0.610	1.000	0.033	1.640	1.000			
LC013	Eldred Rock	0.000	1.368	0.000	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.4	0.0	30.000	10.000	3.000	0.033	0.100	0.333	30.000	4.385	1.000	0.033	0.228	1.000			
LC014	Eldred Rock	0.000	16.816	0.000	16	13.5	6	10	0	0	4.5	0	0	4.5	9	0	0	0	9	0	0.0	12.3	0.0	10.000	0.444	1.000	0.100	2.250	1.000	3.000	0.357	0.667	0.000	2.803	1.500			
LC015	Eldred Rock	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	300.000	100.000	30.000	0.003	0.010	0.033	100.000	30.000	10.000	0.010	0.033	0.100			
LC016	S Yeldagalga	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	100.000	30.000	10.000	0.010	0.033	0.100	1000.000	300.000	100.000	0.001	0.003	0.010			
LC017	S Yeldagalga	0.000	1.368	0.000	0	2	0	0	0	0	0	1	2	0	0	0	0	0	1	2	0	0.0	1.4	0.0	100.000	30.000	10.000	0.010	0.033	0.100	100.000	2.533	3.000	0.010	0.395	0.333		
LC018	S Yeldagalga	0.000	13.947	0.000	11	11	0	12	0	0	3	0	0	3	6	0	7	0	0	8	0	0.0	10.9	0.0	100.000	10.000	3.000	0.010	0.100	0.333	30.000	0.430	1.000	0.033	2.925	1.000		
LC019	S Yeldagalga	3.737	13.079	0.000	14	13.5	6	7	1	1	3.5	0	1	3.5	9	2	7	0	2	7	0	2.7	9.6	0.0	2.000	0.571	0.333	0.500	1.750	3.003	1.606	0.459	0.667	0.623	2.180	1.500		
LC019-1	S Yeldagalga	0.000	2.737	0.000	2	2	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0.0	2.7	0.0	300.000	6.000	3.000	0.003	0.033	0.100	300.000	2.192	1.000	0.003	0.456	1.000			
LC020	S Yeldagalga	9.842	4.105	0.000	10	11	9	1	0	3	0	0	3	0	6	5	1	0	5	3	0	6.8	4.1	0.0	0.750	6.000	0.333	1.333	0.167	3.003	0.610	1.462	0.333	1.640	0.684	3.003		
LC021	S Yeldagalga	17.684	2.868	0.000	21	16.5	15	6	0	4	1.5	0	4	1.5	11	10	1	0	10	1	0	13.7	1.4	0.0	0.429	2.400	3.000	2.333	0.417	0.333	0.339	2.092	0.545	2.947	0.478	1.833		
LC022	S Yeldagalga	0.000	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	300.000	30.000	10.000	0.003	0.033	0.100	100.000	30.000	10.000	0.010	0.033	0.100			
LC023	S Yeldagalga	1.368	16.684	0.000	12	15	1	14	1	0	3	0	0	3	6	1	5	0	1	10	0	1.4	13.7	0.0	6.000	0.750	1.000	0.167	1.333	1.000	4.385	0.360	1.000	0.228	2.781	1.000		
LC024	S Yeldagalga	0.000	17.053	1.368	7	18	1	17	0	0	2	0	0	2	4	0	3	0	0	11	0	0.0	15.1	1.4	10.000	1.200	0.333	0.100	0.833	3.003	1.606	0.352	1.118	0.000	2.842	0.885		
LC025	N Yeldagalga	0.000	19.421	0.000	17	15	2	15	0	0	3	0	0	3	6	0	12	0	0	12	0	0.0	16.4	0.0	10.000	0.400	0.333	0.100	2.500	3.003	10.000	0.309	1.000	0.000	3.237	1.000		
LC026	N Yeldagalga	1.000	11.947	0.000	11	10	2	9	0	1	1	0	1	1	4	0	8	0	0	8	0	0.0	10.9	0.0	6.000	0.667	1.000	0.167	1.500	1.000	6.000	0.502	1.500	0.167	1.991	0.667		
LC026-1	N Yeldagalga	0.000	1.368	0.000	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.4	0.0	30.000	6.000	0.333	0.033	0.167	3.003	30.000	4.385	1.000	0.033	0.228	1.000			
LC027	N Yeldagalga	0.000	5.474	0.000	4	4	0	1	0	0	0	0	0	0	0	0	2	0	4	0	0.0	5.5	0.0	10.000	3.000	0.333	0.100	0.333	3.003	10.000	1.096	0.300	0.100	0.912	3.333			
LC028	N Yeldagalga	1.000	5.474	0.000	6	6	1	5	0	1	0	0	1	0	2	0	4	0	0	4	0	0.0	5.5	0.0	6.000	1.500	1.000	0.167	0.667	1.000	6.000	1.096	3.000	0.167	0.912	3.333		
LC028-1	N Yeldagalga	0.000	2.737	0.000	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0.0	2.7	0.0	300.000	30.000	0.333	0.003	0.033	3.003	30.000	2.192	1.000	0.033	0.456	1.000			
LC028-2	N Yeldagalga	0.000	2.737	0.000	0	2																																

Avalanche Path Widths

Path #	Plunging Calculated AHI Width L ft with 0.005 correction	Deep Calculated AHI Width L ft with 0.005 correction	Light Calculated AHI Width L ft with 0.005 correction	L Max Width ft	L Max Width m	Plunging Observed Width m	Plunging Percentage of Max Width m	Plunging Percentage of Typical Width m	Deep Observed Width m	Deep Percentage of Max Width m	Deep Percentage of Typical Width m	Light Observed Width m	Light Percentage of Max Width m	Light Percentage of Typical Width m
LC001	1126	965	482	1600	488				30	0.2	0.1			
LC002	754	754	452	1500	457				295	2.1	0.6			
LC003	900	80	30	100	30									
LC003-1	90	50	30	100	30									
LC004	181	101	60	200	61									
LC005	141	121	60	200	61									
LC005-1	90	80	30	100	30									
LC006	211	492	211	700	213	135	2.1		32	0.5	0.1			
LC007	90	80	30	100	30									
LC008	161	161	60	200	61									
LC009	90	80	30	100	30				13	1.3	0.4			
LC010	90	80	30	100	30				15	1.6	0.5	13	1.3	0.4
LC011	90	80	30	100	30				11	1.1	0.3			
LC012	60	90	45	150	46									
LC013	121	181	181	600	183				30	0.5	0.2			
LC014	482	121	181	600	183				20	0.4	0.1	20	0.4	0.1
LC015	90	80	30	100	30									
LC016	271	121	90	300	91									
LC017	136	75	45	150	46									
LC018	113	101	38	125	38				24	2.1	0.6	30	2.6	0.8
LC019	563	482	241	800	244				38	0.5	0.2			
LC019-1	90	80	30	100	30									
LC020	241	181	90	300	91	90	3.2	1.0	44	1.6	0.5	25	0.9	0.3
LC021	362	240	121	400	122	131	3.5	1.1	66	1.8	0.5	80	2.2	0.7
LC022	90	80	30	100	30									
LC023	90	80	30	100	30				18	1.9	0.6			
LC024	158	136	68	225	69				20	1.0	0.3	30	1.4	0.4
LC025	229	131	98	325	99				22	0.7	0.2			
LC026	123	106	53	175	53				20	1.2	0.4			
LC026-1	90	80	30	100	30									
LC027	68	60	23	75	23				20	2.9	0.9			
LC028	68	60	23	75	23				10	1.4	0.4			
LC028-1	113	101	38	125	38									
LC028-2	68	60	23	75	23									
LC029	68	60	23	75	23				12	1.7	0.5			
LC030	90	80	30	100	30									
LC031	90	80	30	100	30									
LC31-1	90	80	30	100	30									
LC31-2	90	80	30	100	30									
LC032	90	80	30	100	30									
LC033	90	80	30	100	30									
LC034	90	80	30	100	30									
LC035	204	113	68	225	69									
WLC 001A	905	503	302	1000	305									
WLC 001B	905	503	302	1000	305									
WLC002A	850	472	283	940	286									
WLC002B	534	296	178	590	180									
WLC003	0	0	0	0	0									
WLC004	0	0	0	0	0									
WLC005	217	121	72	240	73									
WLC006A	868	482	289	960	293									
WLC006B	868	482	289	960	293									
WLC006C	868	482	289	960	293									

Avalanche Path Widths

WLC007	109	60	36	120	37									
WLC008	235	131	78	260	79									
WLC009A	432	240	144	478	146									
WLC009B	432	240	144	478	146									
WLC009C	432	240	144	478	146									
WLC010A	226	126	75	250	76									
WLC010B	226	126	75	250	76									
WLC010C	226	126	75	250	76									
WLC010D	226	126	75	250	76									
Path #	Plunging Calculated AHI Width L ft with 0.005 correction	Deep Calculated AHI Width L ft with 0.005 correction	Light Calculated AHI Width L ft with 0.005 correction	L Max Width ft	L Max Width m	Plunging Observed Width m	Plunging Percentage of Max Width m	Plunging Percentage of Typical Width m	Deep Observed Width m	Deep Percentage of Max Width m	Deep Percentage of Typical Width m	Light Observed Width m	Light Percentage of Max Width m	Light Percentage of Typical Width m
	17107.3	11263.8	6199.7											

AHI Calculation Table, ELC Paths 1 to 8

HIGHWAY SEGMENT:		E Lynn 1 - 8		AHI =	68.07		frequencies changed 2012?
0.001	0.002	0.004	0.003	0.150	3.618	2.010	
0.035	0.017	0.133	0.104	0.150	2.814	2.412	
0.000	0.000	0.000	0.001	0.150	1.809	1.608	
0.145	0.675	0.799	0.434	0.200	4.221	9.849	
0.003	0.004	0.012	0.010	0.150	1.809	1.608	
0.012	1.108	1.197	0.825	0.150	3.216	3.216	
N Wait L	PW P	PW D	PW L	AHI WP	AHI WD	AHI WL	
9.6	0.0	0.0	0.0	0.0	0.3	0.1	
9.0	0.8	0.4	1.4	9.0	3.8	4.1	
0.6	0.0	0.0	0.0	0.3	0.2	0.1	
0.6	0.0	0.0	0.0	0.0	0.0	0.0	
1.2	0.0	0.0	0.0	0.0	0.0	0.0	
1.2	0.0	0.1	0.2	0.2	1.2	0.5	
0.6	0.0	0.0	0.0	0.0	0.0	0.0	
4.2	1.0	2.1	2.5	11.8	21.3	7.6	
0.6	0.0	0.0	0.0	0.0	0.1	0.0	
1.2	0.0	0.0	0.1	0.2	0.5	0.2	
P M	P W	AHI	Vol (yd3)				
0.012	0.084	0.577	561.013				
0.119	2.487	17.646	5527.500				
0.015	0.081	0.737	180.630				
0.004	0.000	0.022	33.277				
0.002	0.011	0.079	24.120				
0.049	0.316	2.171	701.267				
0.000	0.001	0.010	3.149				
0.281	5.654	42.671	9423.309				
0.005	0.020	0.166	43.997				
0.017	0.125	3.986	276.933				
		68.067	16775.194				

AHI Calculation Table, ELC Paths 9 to 18

HIGHWAY SEGMENT:		East Lynn		AHI =	27.86	
ADT:		310				
WAIT PERIOD:		1				
Q - LENGTH:		646				
East	Lynn 9-18					
Path	Number	ADT	Velocity	StopDist	L Max	L P
ELynn9		460	40	320	100	90
ELynn10		460	40	320	100	90
ELynn11		460	40	320	100	90
ELynn12		460	40	320	150	60
ELynn13		460	40	320	550	121
ELynn14		460	40	320	500	482
ELynn15		460	40	320	100	90
ELynn16		460	40	320	300	271
ELynn17		460	40	320	150	136
ELynn18		460	40	320	125	113
L D	LL	FP	FD	FL	PM P	PM D
80	30	0.17	1.00	3.00	0.01	0.04
80	30	0.67	0.17	0.17	0.02	0.01
80	30	0.50	0.17	1.00	0.02	0.01
90	45	0.03	1.33	1.00	0.00	0.05
181	181	0.03	0.10	0.33	0.00	0.00
121	181	0.10	2.25	1.00	0.01	0.09
80	30	0.00	0.01	0.03	0.00	0.00
121	90	0.01	0.01	0.01	0.00	0.00
75	45	0.01	0.03	0.10	0.00	0.00
101	38	0.01	0.10	0.33	0.00	0.00
PM L	AHI MP	AHI MD	AHI ML	P 2nd	N Wait P	N Wait D
0.095	0.075	0.363	0.286	0.150	1.809	1.608
0.005	0.298	0.061	0.016	0.150	1.809	1.608
0.032	0.224	0.061	0.095	0.150	1.809	1.608
0.033	0.014	0.497	0.099	0.100	1.206	1.809
0.015	0.016	0.045	0.045	0.150	2.412	3.618

AHI Calculation Table, ELC Paths 9 to 18

HIGHWAY SEGMENT:	East Lynn			AHI =	27.86	
0.045	0.087	0.900	0.136	0.100	9.648	2.412
0.001	0.001	0.004	0.003	0.150	1.809	1.608
0.000	0.006	0.004	0.001	0.150	5.427	2.412
0.003	0.005	0.012	0.010	0.150	2.714	1.508
0.011	0.726	1.946	0.693	0.150	2.261	2.010
N Wait L	PW P	PW D	PW L	AHI WP	AHI WD	AHI WL
0.603	0.045	0.241	0.272	0.543	2.412	0.815
0.603	0.181	0.040	0.015	2.171	0.402	0.045
0.603	0.136	0.040	0.090	1.628	0.402	0.271
0.905	0.004	0.241	0.090	0.048	2.412	0.271
3.618	0.012	0.054	0.181	0.145	0.543	0.543
3.618	0.096	0.543	0.362	1.158	5.427	1.085
0.603	0.001	0.002	0.003	0.011	0.024	0.009
1.809	0.008	0.004	0.003	0.098	0.036	0.008
0.905	0.004	0.008	0.014	0.049	0.075	0.041
0.754	0.003	0.030	0.038	0.041	0.302	0.113
P M	P W	AHI	Vol (yd3)			
0.138	0.558	4.494	1240.104			
0.036	0.236	2.992	524.833			
0.056	0.266	2.681	591.833			
0.084	0.336	3.342	1118.900			
0.021	0.247	1.337	549.400			
0.143	1.001	8.794	3336.600			
0.002	0.006	0.052	14.070			
0.001	0.014	0.154	32.160			
0.005	0.025	0.192	55.945			
0.015	0.071	3.820	158.288			
		27.857	7622.133			

AHI Calculation Table, ELC Paths 19 to 26-1

HIGHWAY SEGMENT:		East Lynn		AHI =	174.32		
ADT:		310					
WAIT PERIOD:		1					
Q - LENGTH:		646					
East	Lynn 19 - 26-1						
Path	Number	ADT	Velocity	StopDist	L Max	L P	
ELynn19		460	40	320	800	563	
ELynn19-1		460	40	320	100	90	
ELynn20		460	40	320	300	241	
ELynn21		460	40	320	400	362	
ELynn22		460	40	320	100	90	
ELynn23		460	40	320	100	90	
ELynn24		460	40	320	225	158	
ELynn25		460	40	320	325	229	
ELynn26		460	40	320	175	123	
ELynn26-1		460	40	320	100	90	
L D	LL	FP	FD	FL	PM P	PM D	
482.400	241.200	0.500	1.750	3.003	0.040	0.127	
80.400	30.150	0.003	0.167	0.333	0.000	0.006	
180.900	90.450	1.333	0.167	3.003	0.068	0.008	
240.000	120.600	2.333	0.417	0.333	0.144	0.021	
80.400	30.150	0.003	0.033	0.100	0.000	0.001	
80.400	30.150	0.167	1.333	1.000	0.006	0.048	
135.675	67.838	0.100	0.833	3.003	0.004	0.034	
130.650	97.988	0.100	2.500	3.003	0.005	0.102	
105.525	52.763	0.167	1.500	1.000	0.007	0.058	
80.400	30.150	0.033	0.167	3.003	0.001	0.006	
PM L	AHI MP	AHI MD	AHI ML	P 2nd	N Wait P	N Wait D	
0.153	0.481	1.274	0.459	0.200	11.256	9.648	
0.011	0.001	0.061	0.032	0.150	1.809	1.608	
0.112	0.815	0.076	0.336	0.150	4.824	3.618	
0.013	1.733	0.212	0.040	0.200	7.236	4.800	
0.003	0.001	0.012	0.010	0.150	1.809	1.608	

AHI Calculation Table, ELC Paths 19 to 26-1

HIGHWAY SEGMENT:	East Lynn			AHI =	174.32	
0.032	0.074	0.485	0.095	0.150	1.800	1.608
0.106	0.052	0.345	0.317	0.200	3.166	2.714
0.114	0.060	1.022	0.342	0.200	4.573	2.613
0.034	0.080	0.579	0.101	0.200	2.462	2.111
0.095	3.298	4.065	1.731	0.250	1.809	1.608
N Wait L	PW P	PW D	PW L	AHI WP	AHI WD	AHI WL
4.824	1.126	3.377	2.897	13.507	33.768	8.692
0.603	0.001	0.040	0.030	0.011	0.402	0.090
1.809	0.965	0.090	0.815	11.578	0.905	2.445
2.412	3.377	0.400	0.161	40.522	4.000	0.482
0.603	0.001	0.008	0.009	0.011	0.080	0.027
0.603	0.045	0.322	0.090	0.540	3.216	0.271
1.357	0.063	0.452	0.815	0.760	4.523	2.445
1.960	0.091	1.307	1.177	1.097	13.065	3.531
1.055	0.082	0.633	0.211	0.985	6.332	0.633
0.603	0.015	0.067	0.453	0.181	0.670	1.358
P M	P W	AHI	Vol(yd3)			
0.320	7.400	58.181	12332.829			
0.017	0.071	0.597	158.343			
0.187	1.870	16.153	4155.811			
0.179	3.938	46.988	6562.667			
0.005	0.018	0.142	39.977			
0.086	0.457	4.682	1015.667			
0.145	1.330	8.441	2217.383			
0.221	2.575	19.118	4291.637			
0.098	0.926	8.711	1543.792			
0.103	0.535	11.304	713.037			
		174.315	33031.141			

AHI Calculation Table, ELC Paths 27 to 34

HIGHWAY SEGMENT:		East Lynn		AHI =	0.02		
ADT:		310					
WAIT PERIOD:		1					
Q - LENGTH:		646					
East	Lynn 27 - 34						
Path	Number	ADT	Velocity	StopDist	L Max	L P	
ELynn27		460	40	320	75	68	
ELynn28		460	40	320	75	68	
ELynn28-1		460	40	320	125	113	
ELynn28-2		460	40	320	75	68	
ELynn29		460	40	320	75	68	
ELynn30		460	40	320	100	90	
ELynn31		460	40	320	100	90	
ELynn31-1		460	40	320	100	90	
ELynn31-2		460	40	320	100	90	
ELynn32		460	40	320	100	90	
ELynn33		460	40	320	100	90	
ELynn34		460	40	320	100	90	
L D	L L	F P	F D	F L	PM P	PM D	
60		23	0.100	0.333	3.003	0.004	0.012
60		23	0.167	0.667	1.000	0.006	0.023
101		38	0.003	0.033	3.003	0.000	0.001
60		23	0.003	0.033	3.003	0.000	0.001
60		23	0.167	1.000	1.000	0.006	0.035
80		30	0.003	0.033	0.033	0.000	0.001
80		30	0.003	0.100	0.333	0.000	0.004
80		30	0.001	1.000	3.003	0.000	0.036
80		30	0.001	1.000	3.003	0.000	0.036
80		30	0.001	0.003	0.033	0.000	0.000
80		30	0.001	0.003	0.010	0.000	0.000
80		30	0.001	0.003	0.033	0.000	0.000
PM L	AHI MP	AHI MD	AHI ML	P 2nd	N Wait P	N Wait D	
0.09	0.042	0.115	0.280	0.150	1.357	1.206	
0.03	0.070	0.230	0.093	0.150	1.357	1.206	
0.10	0.002	0.013	0.292	0.150	2.261	2.010	

AHI Calculation Table, ELC Paths 27 to 34

HIGHWAY SEGMENT:		East Lynn		AHI =	0.02	
0.09	0.001	0.012	0.280	0.150	1.357	1.206
0.03	0.070	0.345	0.093	0.150	1.357	1.206
0.00	0.001	0.012	0.003	0.150	1.809	1.608
0.01	0.001	0.036	0.032	0.150	1.809	1.608
0.10	0.000	0.363	0.286	0.150	1.809	1.608
0.10	0.000	0.363	0.286	0.150	1.809	1.608
0.00	0.000	0.001	0.003	0.150	1.809	1.608
0.00	0.000	0.001	0.001	0.150	1.809	1.608
0.00	0.000	0.001	0.003	0.150	1.809	1.608
N Wait L	PW P	PW D	PW L	AHI WP	AHI WD	AHI WL
0	0.020	0.060	0.204	0.244	0.603	0.611
0	0.034	0.121	0.068	0.407	1.206	0.204
1	0.001	0.010	0.340	0.014	0.101	1.019
0	0.001	0.006	0.204	0.008	0.060	0.611
0	0.034	0.181	0.068	0.407	1.809	0.204
1	0.001	0.008	0.003	0.011	0.080	0.009
1	0.001	0.024	0.030	0.011	0.241	0.090
1	0.000	0.241	0.272	0.003	2.412	0.815
1	0.000	0.241	0.272	0.003	2.412	0.815
1	0.000	0.001	0.003	0.003	0.008	0.009
1	0.000	0.001	0.001	0.003	0.008	0.003
1	0.000	0.001	0.003	0.003	0.008	0.009
P M	P W	AHI	Vol(yd3)			
0.11	0.284	1.896	631.928			
0.06	0.222	2.210	494.125			
0.10	0.351	1.439	779.350			
0.09	0.210	0.973	467.610			
0.07	0.283	2.928	628.125			
0.00	0.012	0.117	26.577			
0.01	0.055	0.412	122.610			
0.13	0.513	3.880	1140.207			
0.13	0.513	3.880	1140.207			
0.00	0.004	0.025	9.090			
0.00	0.002	0.017	4.400			
0.00	0.004	0.025	9.090			
		17.803				

AHI Calculation Table, ELC Path 35

HIGHWAY SEGMENT:		East Lynn		AHI =	0.22	
0.00	0.00	0.00	0.00	0.15	0	0
0.00	0.00	0.00	0.00	0.15	0	0
0.00	0.00	0.00	0.00	0.15	0	0
0.00	0.00	0.00	0.00	0.15	0	0
0.00	0.00	0.01	0.01	0.20	0	0
N Wait L	PW P	PW D	PW L	AHI WP	AHI WD	AHI WL
1.357	0.002	0.011	0.020	0.024	0.113	0.061
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
0	0.00	0.00	0.00	0.00	0.00	0.00
P M	P W	AHI	Vol(yd3)			
0.005	0.034	0.224	74.873			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
0.00	0.00	0.000	0			
		0.224	75			
		288.266				

East Lynn AHI and Mitigation

Path #	Path Group	Unmitigated AHI	Structurally Mitigated AHI	notes	Exploder & Forecasting Factor	AHI With Exploders & Forecasting	Unmitigated Waiting AHI	Unmitigated Moving AHI	Unmitigated Total AHI	Structurally Mitigated AHI
ELC019	S Yeldagalga	58.18	0.00	800'/244m snowshed	0.3	0.00	55.97	2.21	58.18	0.00
ELC021	S Yeldagalga	46.99	0.00	400'/122m snowshed	0.3	0.00	45.00	1.98	46.99	0.00
ELC006	Eldred Rock	42.67	8.53	bridge 0.2x	0.3	2.56	40.76	1.91	42.67	8.53
ELC025	N Yeldagalga	19.12	11.47	bridge 0.2x for half	0.3	3.44	17.69	1.42	19.12	11.47
ELC002	N Kensington	17.65	8.82	33'/10m elevated fill 0.5 x	0.3	2.65	16.88	0.76	17.65	8.82
ELC020	S Yeldagalga	16.15	0.00	300' snowshed	0.3	0.00	14.93	1.23	16.15	0.00
ELC026-1	N Yeldagalga	11.30	11.30		0.3	3.39	2.21	9.09	11.30	11.30
ELC014	Eldred Rock	8.79	4.40	33'/10m elevated fill 0.5 x	0.3	1.32	7.67	1.12	8.79	4.40
ELC026	N Yeldagalga	8.71	1.74	bridge 0.2x	0.3	0.52	7.95	0.76	8.71	1.74
ELC024	S Yeldagalga	8.44	8.44		0.3	2.53	7.73	0.71	8.44	8.44
ELC023	S Yeldagalga	4.68	4.68		0.3	1.40	4.03	0.65	4.68	4.68
ELC009	Eldred Rock	4.49	4.49		0.3	1.35	3.77	0.72	4.49	4.49
ELC008	Eldred Rock	3.99	0.80	bridge 0.2x	0.3	0.24	0.86	3.13	3.99	0.80
ELC031-1	Wild Bird	3.88	3.88	new path	0.3	1.16	3.23	0.65	3.88	3.88
ELC031-2	Wild Bird	3.88	3.88	new path	0.3	1.16	3.23	0.65	3.88	3.88
ELC018	S Yeldagalga	3.82	3.82		0.3	1.15	0.46	3.37	3.82	3.82
ELC012	Eldred Rock	3.34	0.67	bridge 0.2x	0.3	0.20	2.73	0.61	3.34	0.67
ELC010	Eldred Rock	2.99	2.99		0.3	0.90	2.62	0.37	2.99	2.99
ELC029	N Yeldagalga	2.93	0.59	bridge 0.2x	0.3	0.18	2.42	0.51	2.93	0.59
ELC011	Eldred Rock	2.68	2.68		0.3	0.80	2.30	0.38	2.68	2.68
ELC028	N Yeldagalga	2.21	0.44	bridge 0.2x	0.3	0.13	1.82	0.39	2.21	0.44
ELC005	Eldred Rock	2.17	0.43	bridge 0.2x	0.3	0.13	1.92	0.25	2.17	0.43
ELC027	N Yeldagalga	1.90	1.90		0.3	0.57	1.46	0.44	1.90	1.90
ELC028-1	N Yeldagalga	1.44	1.44		0.3	0.43	1.13	0.31	1.44	1.44
ELC013	Eldred Rock	1.34	1.34		0.3	0.40	1.23	0.11	1.34	1.34
ELC028-2	N Yeldagalga	0.97	0.97		0.3	0.29	0.68	0.29	0.97	0.97
ELC003	N Kensington	0.74	0.74		0.3	0.22	0.66	0.08	0.74	0.74
ELC019-1	S Yeldagalga	0.60	0.60		0.3	0.18	0.50	0.09	0.60	0.60
ELC001	Berners Bay	0.58	0.58		0.3	0.17	0.51	0.07	0.58	0.58
ELC031	N Yeldagalga	0.41	0.00	tunnels	0.3	0.00	0.34	0.07	0.41	0.00
ELC035	N Katzehin	0.22	0.04	fill 0.2x	0.3	0.01	0.20	0.03	0.22	0.04
ELC017	S Yeldagalga	0.19	0.04	bridge 0.2x	0.3	0.01	0.16	0.03	0.19	0.04
ELC007	Eldred Rock	0.17	0.17		0.3	0.05	0.14	0.03	0.17	0.17
ELC016	S Yeldagalga	0.15	0.03	bridge 0.2x	0.3	0.01	0.14	0.01	0.15	0.03
ELC022	S Yeldagalga	0.14	0.14		0.3	0.04	0.12	0.02	0.14	0.14
ELC030	N Yeldagalga	0.12	0.12		0.3	0.04	0.10	0.02	0.12	0.12
ELC004	N Kensington	0.08	0.08		0.3	0.02	0.07	0.01	0.08	0.08
ELC015	Eldred Rock	0.05	0.05		0.3	0.02	0.04	0.01	0.05	0.05
ELC032	S Katzehin	0.03	0.03		0.3	0.01	0.02	0.00	0.03	0.03
ELC034	S Katzehin	0.03	0.03		0.3	0.01	0.02	0.00	0.03	0.03
ELC003-1	N Kensington	0.02	0.02		0.3	0.01	0.00	0.02	0.02	0.02
ELC033	S Katzehin	0.02	0.02		0.3	0.00	0.01	0.00	0.02	0.02
ELC005-1	Eldred Rock	0.01	0.01		0.3	0.00	0.01	0.00	0.01	0.01
Total	Without Exploders	288.27	92.39				253.72	34.54	288.27	92.39
Total	With Exploders & Forecasting	86.48	27.72			27.72				27.72

AHI Comparison

Highway	Unmitigated AHI	Daily Observations & Forecasts	Forecasting, Closure, & Explosives	Structural Mitigation	Special Explosives Methods
* Little Cottonwood, UT	1045	x	x	x	x
Rogers Pass, BC	1004	x	x	x	x
* East Lynn, AK	86	x	x	x	
Red Mtn. Pass, CO	335	x	x	x	
* Seward Highway, AK (Anchorage-Seward, old alignment)	331	x	x	x	
* Seward Highway, AK (Anchorage-Girdwood, old alignment)	188	x	x	x	
Coal Bank/Molas, CO	108	x	x		
* West Lynn, AK	101	x	x	x	
Berthoud Pass, CO	93	x	x		
Coquihalla, BC	90	x	x	x	x
Loveland Pass, CO	80	x	x		
Wolf Creek Pass, CO	54	x	x	x	
Red Mountain Pass, Silverton-Gladstone, CO	49	x	x		
Teton Pass, WY	47	x	x		x
Lizard Head Pass, CO	39	x	x		
I-70 Tunnel Approaches, CO	27	x	x	x	
Thane Road, AK	21		x	x	

West Lynn AHI Calculation

HIGHWAY SEGMENT:		West Lynn		AHI =	0.54	
ADT:		380				
WAIT PERIOD:		1				
Q - LENGTH:		792				
West						
Path	Number	ADT	Velocity	StopDist	L Max	L P
WLC 001A		365	40	320	1000	905
WLC 001B		365	40	320	1000	905
WLC002A		365	40	320	940	850
WLC002B		365	40	320	590	534
WLC003		365	40	320	0	0
WLC004		365	40	320	0	0
WLC005		365	40	320	240	217
WLC006A		365	40	320	960	868
WLC006B		365	40	320	960	868
WLC006C		365	40	320	960	868
WLC007		365	40	320	120	109
WLC008		365	40	320	260	235
WLC009A		365	40	320	478	432
WLC009B		365	40	320	478	432
WLC009C		365	40	320	478	432
WLC010A		365	40	320	250	226
WLC010B		365	40	320	250	226
WLC010C		365	40	320	250	226
WLC010D		365	40	320	250	226
L D	L L	F P	F D	F L	P M P	P M D
503		302	0.003	0.010	0.100	0.000
503		302	0.003	0.010	0.100	0.000
472		283	0.003	0.010	0.100	0.000
296		178	0.003	0.003	0.100	0.000
0		0	0.001	0.003	0.003	0.000
0		0	0.001	0.003	0.003	0.000
121		72	0.003	0.030	1.000	0.000
482		289	0.003	1.000	1.000	0.000
482		289	0.003	1.000	1.000	0.000
482		289	0.003	1.000	1.000	0.000
60		36	0.003	1.000	1.000	0.000
131		78	0.003	0.300	1.000	0.000
240		144	0.003	1.000	3.000	0.000
240		144	0.003	1.000	3.000	0.000
240		144	0.003	1.000	3.000	0.000
126		75	0.003	0.100	1.000	0.000
126		75	0.003	0.100	1.000	0.000
126		75	0.003	0.100	1.000	0.000

West Lynn AHI Calculation

HIGHWAY SEGMENT:	West Lynn			AHI =	0.54	
126	75	0.003	0.100	1.000	0.000	0.003
PM L	AHI MP	AHI MD	AHI ML	P 2nd	N Wait P	N Wait D
0.004	0.003	0.006	0.013	0.150	18.090	10.050
0.00	0.003	0.006	0.013	0.150	18.090	10.050
0.00	0.003	0.006	0.013	0.150	17.005	9.447
0.00	0.002	0.001	0.011	0.150	10.673	5.930
0.00	0.000	0.001	0.000	0.150	0.000	0.000
0.00	0.000	0.001	0.000	0.150	0.000	0.000
0.03	0.001	0.010	0.085	0.150	4.342	2.412
0.04	0.003	0.578	0.132	0.150	17.366	9.648
0.04	0.003	0.578	0.132	0.150	17.366	9.648
0.04	0.003	0.578	0.132	0.150	17.366	9.648
0.03	0.001	0.274	0.077	0.150	2.171	1.206
0.03	0.001	0.097	0.086	0.150	4.703	2.613
0.10	0.002	0.403	0.301	0.150	8.641	4.801
0.10	0.002	0.403	0.301	0.150	8.641	4.801
0.10	0.002	0.403	0.301	0.150	8.641	4.801
0.03	0.001	0.032	0.085	0.150	4.523	2.513
0.03	0.001	0.032	0.085	0.150	4.523	2.513
0.03	0.001	0.032	0.085	0.150	4.523	2.513
0.03	0.001	0.032	0.085	0.150	4.523	2.513
N Wait L	PW P	PW D	PW L	AHI WP	AHI WD	AHI WL
6.030	0.008	0.015	0.090	0.098	0.151	0.271
6	0.008	0.015	0.090	0.098	0.151	0.271
6	0.008	0.014	0.085	0.092	0.142	0.255
4	0.005	0.003	0.053	0.058	0.027	0.160
0	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000
1	0.002	0.011	0.217	0.023	0.109	0.651
6	0.008	1.447	0.868	0.094	14.472	2.605
6	0.008	1.447	0.868	0.094	14.472	2.605
6	0.008	1.447	0.868	0.094	14.472	2.605
1	0.001	0.181	0.109	0.012	1.809	0.326
2	0.002	0.118	0.235	0.025	1.176	0.706
3	0.004	0.720	1.296	0.047	7.201	3.888
3	0.004	0.720	1.296	0.047	7.201	3.888
3	0.004	0.720	1.296	0.047	7.201	3.888
2	0.002	0.038	0.226	0.024	0.377	0.678
2	0.002	0.038	0.226	0.024	0.377	0.678
2	0.002	0.038	0.226	0.024	0.377	0.678
2	0.002	0.038	0.226	0.024	0.377	0.678
P M	P W	AHI	Vol(yd3)			
0.005	0.114	0.542	252.590			
0.01	0.114	0.542	252.590			
0.01	0.107	0.510	237.435			
0.00	0.061	0.259	135.193			

West Lynn AHI Calculation

HIGHWAY SEGMENT:		West Lynn		AHI =	0.54	
0.00	0.000	0.001	0.000			
0.00	0.000	0.001	0.000			
0.03	0.230	0.879	510.862			
0.10	2.323	17.883	5162.966			
0.10	2.323	17.883	5162.966			
0.10	2.323	17.883	5162.966			
0.05	0.290	2.498	645.371			
0.04	0.355	2.092	788.603			
0.14	2.020	11.842	4489.154			
0.14	2.020	11.842	4489.154			
0.14	2.020	11.842	4489.154			
0.03	0.266	1.199	590.773			
0.03	0.266	1.199	590.773			
0.03	0.266	1.199	590.773			
0.03	0.266	1.199	590.773			
		0.542	34142			
		101.295				

West Lynn AHI and Mitigation

Path #	Path Group	Unmitigated AHI	Structurally Mitigated AHI	notes	Exploder & Forecasting Factor	AHI With Exploders & Forecasting	Unmitigated Waiting AHI	Unmitigated Moving AHI	Unmitigated Total AHI	Structurally Mitigated AHI
WLC006A	Sullivan	17.88	8.94	elevated fill 0.5x	0.3	2.68	17.17	0.71	17.88	8.94
WLC006B	Sullivan	17.88	8.94	elevated fill 0.5x	0.3	2.68	17.17	0.71	17.88	8.94
WLC006C	Sullivan	17.88	17.88		0.3	5.36	17.17	0.71	17.88	17.88
WLC009A	Rainbow	11.84	5.92	elevated fill 0.5x	0.3	1.78	11.14	0.71	11.84	5.92
WLC009B	Rainbow	11.84	5.92	elevated fill 0.5x	0.3	1.78	11.14	0.71	11.84	5.92
WLC009C	Rainbow	11.84	5.92	elevated fill 0.5x	0.3	1.78	11.14	0.71	11.84	5.92
WLC007	Sullivan	2.50	0.50	bridge 0.2x	0.3	0.15	2.15	0.35	2.50	0.50
WLC008	Rainbow	2.09	0.42	bridge 0.2x	0.3	0.13	1.91	0.18	2.09	0.42
WLC010A	Pyramid	1.20	0.60	elevated fill 0.5x	0.3	0.18	1.08	0.12	1.20	0.60
WLC010B	Pyramid	1.20	0.60	elevated fill 0.5x	0.3	0.18	1.08	0.12	1.20	0.60
WLC010C	Pyramid	1.20	0.60	elevated fill 0.5x	0.3	0.18	1.08	0.12	1.20	0.60
WLC010D	Pyramid	1.20	0.60	elevated fill 0.5x	0.3	0.18	1.08	0.12	1.20	0.60
WLC005	Sullivan	0.88	0.88		0.3	0.26	0.78	0.10	0.88	0.88
WLC 001A	S Endicott	0.54	0.54		0.3	0.16	0.52	0.02	0.54	0.54
WLC 001B	S Endicott	0.54	0.54		0.3	0.16	0.52	0.02	0.54	0.54
WLC002A	S Endicott	0.51	0.51		0.3	0.15	0.49	0.02	0.51	0.51
WLC002B	S Endicott	0.26	0.26		0.3	0.08	0.24	0.01	0.26	0.26
WLC003	N Endicott	0.00	0.00		0.3	0.00	0.00	0.00	0.00	0.00
WLC004	N Endicott	0.00	0.00		0.3	0.00	0.00	0.00	0.00	0.00
Total	Without Exploders	101.29	59.58							
Total	With Exploders & Forecasting	30.39	17.87			17.87				

AHI Classification

Unmitigated AHI	Classification
<1	very low
1 - 10	low
10 - 40	moderate
40 - 100	high
>100	very high

Bridge Avalanche Impact Force Calculations

Path	H	Hp	Hf	Ps	Pf	Comments
ELC 028	55 ft, 17m	98 ft, 30m	44ft, 13m	119 psf, 581 kg/m ²	2,382 psf, 11,629 kg/m ²	A
ELC 029	20 ft, 6 m	131 ft, 40m	57 ft, 17m	101 psf, 493 kg/m ²	2,015 psf, 9,837 kg/m ²	B
WLC 007	75 ft, 23 m	98 ft, 30m	4 ft, 1.2 m	22 psf 107 kg/m ²	440 psf, 2,148 kg/m ²	A
WLC 008	75 ft, 23 m	131 ft, 40 m	31 ft, 9 m	97 psf, 474 kg/m ²	1,943 psf, 9,486 kg/m ²	B

Unmitigated and Residual AHI Comparison

AHI Category	Highway	Unmitigated AHI	Residual AHI
Very High AHI highways	Rogers Pass, BC	1004	40
	Red Mtn. Pass, CO	335	70
	* Seward Highway, AK (Anchorage-Seward, old alignment)	331	70
	* Seward Highway, AK (Anchorage-Girdwood, old alignment)	188	39
	Coal Bank/Molas, CO	108	23
	Average, Very High AHI highways	393	48
High AHI highways	Berthoud Pass, CO	93	20
	Coquihalla, BC	90	19
	Loveland Pass, CO	80	17
	Wolf Creek Pass, CO	54	11
	Silverton-Gladstone, CO	49	10
	Teton Pass, WY	47	10
	Average, High & Very High AHI highways	216	30
Moderate AHI highways	Lizard Head Pass, CO	39	8
	I-70 Tunnel Approaches, CO	27	6
	Thane Road, AK	21	4
	Average, all listed highways	176	25
Lynn Canal	East Lynn Alt 2B, AK (very high)	288	28
	West Lynn, AK (high)	101	18

AHI per Unit Distance Comparison

AHI Category	Highway	Unmitigated AHI	Avalanche Zone, Miles	Residual AHI/ Mile	Avalanche Zone, Km	Residual AHI/ Km
Very High AHI highways	Rogers Pass, BC	1004	24.8	1.6	40.0	1.0
	Red Mtn. Pass, CO	335	17.4	4.1	28.0	2.5
	* Seward Highway, AK (Anchorage-Seward, old alignment)	331	88.9	0.8	143.1	0.5
	* Seward Highway, AK (Anchorage-Girdwood, old alignment)	188	16.5	2.4	26.6	1.5
	Coal Bank/Molas, CO	108	34.0	0.7	54.7	0.4
	Average, Very High AHI highways	393	36.3	1.9	58.5	1.2
High AHI highways	Berthoud Pass, CO	93	16.0	1.2	25.7	0.8
	Coquihalla, BC	90	12.4	1.5	20.0	0.9
	Loveland Pass, CO	80	8.0	2.1	12.9	1.3
	Wolf Creek Pass, CO	54	18.4	0.6	29.6	0.4
	Silverton-Gladstone, CO	49	6.5	1.6	10.5	1.0
	Teton Pass, WY	47	13.8	0.7	22.2	0.4
	Average, High & Very High AHI highways	216	23.3	1.6	37.6	1.0
Moderate AHI highways	Lizard Head Pass, CO	39	21.0	0.4	33.8	0.2
	I-70 Tunnel Approaches, CO	27	15.0	0.4	24.1	0.2
	Thane Road, AK	21	2.9	1.5	4.6	1.0
	Average, all highways	176	21.1	1.4	34.0	0.9
Lynn Canal	East Lynn, AK (very high)	288	50.5	0.5	81.3	0.3
	West Lynn, AK (high)	101	33.3	0.5	53.7	0.3

Acronyms, Symbols, and Abbreviations

Short Version	Full Version
#	Number
+	Or greater; plus (addition)
<	Less than
>	Greater Than
~	Approximately
ADT	Average Daily Traffic
AHI MD	Avalanche Hazard Index for Moving vehicle with Deep Avalanche
AHI ML	Avalanche Hazard Index for Moving vehicle with Light Avalanche
AHI MP	Avalanche Hazard Index for Moving vehicle with Plunging Avalanche
AHI WD	Avalanche Hazard Index for Moving vehicle with Deep Avalanche
AHI WL	Avalanche Hazard Index for Moving vehicle with Light Avalanche
AHI WP	Avalanche Hazard Index for Moving vehicle with Plunging Avalanche
AK	Alaska
Avg	Average
BC	British Columbia
CL	Center Line
CO	Colorado
D	Depth
Dist	Distance
Dist	Distance
E	East
Elev.	Elevation
FD	Frequency of Deep Avalanche
FL	Frequency of Light Avalanche
FP	Frequency of Plunging Avalanche
ft	Feet
H	Height
Hf	Height of Flowing Snow
Hp	Height of Powder cloud
kg/m ²	Kilograms per cubic meter
Km	Kilometers
L	Length
L L	Length of Light Avalanche (less than 1 m deep on centerline)
L Max	Length of Maximum Avalanche
LD	Length of Deep Avalanche (greater than 1 m deep on centerline)
LP	Length of Plunging Avalanche (power to crush a vehicle or push it off a cliff or into water)
m	Meters
Max	Maximum
N	North
N Wait D	Number of Waiting vehicles, Deep Avalanche
N Wait P	Number of Waiting vehicles, Plunging Avalanche
P 2nd	Probability of a Second avalanche while vehicles are waiting
Pf	Pressure of Flowing snow
PM D	Probability of encounter for Moving vehicle with Deep avalanche
PM P	Probability of encounter for Moving vehicle with Plunging avalanche
Ps	Stagnation Pressure
psf	Pounds per Square Foot
PW	Probability of encounter for Waiting vehicle
PWD	Probability of encounter for Waiting vehicle with Deep avalanche
PWL	Probability of encounter for Waiting vehicle with Light avalanche
PWP	Probability of encounter for Waiting vehicle with Plunging avalanche
Q	Queue (backed-up traffic)
S	South
Typ	Typical
UT	Utah

Acronyms, Symbols, and Abbreviations

Short Version	Full Version
Vol	Volume (of debris)
W	Width
W	West
WY	Wyoming
x	Times (multiplication)
Yd3	Cubic Yards