

MOUNTAIN LOOP HIGHWAY @ BRIDGE 102

24 HOUR ADT, VEHICLE AND TRUCK DATA BREAKDOWNS

& COMPARISON WITH EARLIER COUNTS

Tuesday 8/14/18 to Monday 8/20/18



Snohomish County Public Works

TES-TRAFFIC OPERATIONS

2018 and Previous Average Daily Traffic (ADT) and Weekend Recreational Traffic @ Bridge 102 (7-Day Counts)

	TUES	WED	THUR	FRI	SAT	SUN	MON		
	8/14/18	8/15/18	8/16/18	8/17/18	8/18/18	8/19/18	8/20/18		
ALL VEHICLES, 2018*	5056	4787	5145	5578	6597	5872	4623	ADT (Tues to Thurs)	4996
	9/26/17	9/27/17	9/28/17	9/29/17	9/30/17	10/1/17	10/2/17		
ALL VEHICLES, 2017**	4543	4745	5116	4754	4745	4132	4483	ADT (Tues to Thurs)	4801
	6/16/15	6/17/15	6/18/15	6/19/15	6/20/15	6/21/15	6/22/15		
ALL VEHICLES, 2015***	4811	4858	4779	4996	6734	6713	4811	ADT (Tues to Thurs)	4816
	8/28/12	8/22/12	8/23/12	8/24/12	8/25/12	8/26/12	8/27/12		
ALL VEHICLES, 2012****	3923	3987	3911	4579	5695	5125	4104	ADT (Tues to Thurs)	3940
	8/2/11	8/3/11	8/4/11	8/5/11	8/6/11	8/7/11	8/8/11		
ALL VEHICLES, 2011*****	4265	4508	4662	4697	5493	5257	4038	ADT (Tues to Thurs)	4478
	7/8/08	7/9/08	7/10/08	7/11/08	7/12/08	7/13/08	7/14/08		
ALL VEHICLES, 2008*****	4078	4254	4258	4987	5727	5433	4142	ADT (Tues to Thurs)	4197

There is an overall pattern of slow ADT Growth the last 10 years, even with financial downturns and fluctuating gas prices. The year 2012 was the exception although 2017 also saw a slight decrease. Recreational weekend traffic seems to fluctuate more based on the economy and gas prices.

*Slight increase in overall weekday ADT, Summer weekend counts show number almost back to 2015 levels, at least for Saturday.

**Counts taken in early autumn. Noticable drop in weekend recreational traffic, not as many campers and hikers on weekends.

***Gas prices have dropped sharply from 2015 into 2016 and we have seen a jump in ADT, especially recreational (Sat-Sun) ADT.

****ADT was down in 2012, may be due at least partly to continued surging crude oil prices and record gas prices at the pump.

***** Gas prices continued to rise to high levels in 2011.

*****Financial crisis at its worst in the latter half of 2008, which led to falling oil/gas prices late in the year but still high in July during counts.

Forecast 10-Year ADT

6,090 (*Using 2% Per Year Growth Rate)

5,947 (*Using Br-102 Growth Rate from 2008 to 2018)

Distribution and Percentage of Vehicles Types for 2018 from 7-Day Combined Direction Counts at Bridge 102, Mountain Loop Highway

BIN #	VEHICLE TYPE	VEHICLE GROUPING			TUES	WED	THUR	FRI	SAT	SUN	MON
					8/14/18	8/15/18	8/16/18	8/17/18	8/18/18	8/19/18	8/20/18
1	Motor Bikes	Autos, Bikes, etc.			99	74	69	79	121	109	71
2	Cars & Trailers				3464	3292	3537	3984	5128	4549	3237
3	2 Axle Long (Pickups, Vans, Panels)				756	710	718	819	914	866	731
4	Buses	Buses		Trucks & Buses	37	35	64	45	38	22	31
5	2 Axle 6 Tire	Single Trucks		All Trucks	278	262	275	304	271	285	262
6	3 Axle Single		=>3 Axle		103	69	92	61	8	0	65
7	4 Axle Single				43	26	30	32	0	0	30
8	<5 Axle Double	Combo Trucks			28	32	32	34	26	40	22
9	5 Axle Double				27	33	26	25	10	0	28
10	>6 Axle Double				161	185	221	165	67	1	114
11	<6 Axle Multi				0	3	4	2	0	0	0
12	6 Axle Multi				0	0	0	0	0	0	0
13	>6 Axle Multi				60	66	77	28	14	0	32

T,W,R AVG	Wk-end AVG	7-Day AVG	T,W,R %	Wk-end %	7-Day %
81	115	89	1.61%	1.84%	1.65%
3431	4839	3884	68.67%	77.61%	72.21%
728	890	788	14.57%	14.28%	14.64%
45	30	39	0.91%	0.48%	0.72%
272	278	277	5.44%	4.46%	5.14%
88	4	57	1.76%	0.06%	1.06%
33	0	23	0.66%	0.00%	0.43%
31	33	31	0.61%	0.53%	0.57%
29	5	21	0.57%	0.08%	0.40%
189	34	131	3.78%	0.55%	2.43%
2	0	1	0.05%	0.00%	0.02%
0	0	0	0.00%	0.00%	0.00%
68	7	40	1.35%	0.11%	0.74%

				TUES	WED	THUR	FRI	SAT	SUN	MON
				Typical Weekday (T, W, R)			Typical Weekend			
1-13	Totals: ADT All Vehicles			5056	4787	5145	5578	6597	5872	4623
1-3	Totals: Autos, Bikes			4319	4076	4324	4882	6163	5524	4039
4	Totals: Buses			37	35	64	45	38	22	31
5-7	Totals: Single Trucks			424	357	397	397	279	285	357
8-13	Totals: Combo Trucks			276	319	360	254	117	41	196
6-13	Totals: 3 Axle and Above			422	414	482	347	125	41	291
5-13	Totals: All Trucks			700	676	757	651	396	326	553
4-13	Totals: Trucks and Buses			737	711	821	696	434	348	584

T,W,R AVG	Wk-end AVG	7-Day AVG	T,W,R %	Wk-end %	7-Day %
4996	6235	5380	100.00%	100.00%	100.00%
4240	5844	4761	84.86%	93.73%	88.50%
45	30	39	0.91%	0.48%	0.72%
393	282	357	7.86%	4.52%	6.63%
318	79	223	6.37%	1.27%	4.15%
439	83	303	8.79%	1.33%	5.63%
711	361	580	14.23%	5.79%	10.78%
756	391	619	15.14%	6.27%	11.50%

2018

PEAK HOUR VOLUMES OF ALL VEHICLES - 2018

Peak Hr Volumes	TUES	WED	THUR	FRI	SAT	SUN	MON	T,W,R AVG	Wk-end AVG	7-Day AVG
	AM NB	178	167	183	161	219	274	171	176	247
AM SB	182	144	169	191	297	243	138	165	270	195
AM Combined	344	289	315	352	510	517	290	316	514	374
PM NB	184	176	190	203	327	333	170	183	330	226
PM SB	229	234	247	257	302	254	238	237	278	252
PM Combined	391	376	403	455	521	546	382	390	534	439
Peak Hr Times	TUES	WED	THUR	FRI	SAT	SUN	MON			
	AM NB	5:30 PM	5:30 PM	7:00 PM	11:00 AM	10:45 AM	11:00 AM	8:45 AM		
AM SB	11:00 AM	10:45 PM	9:45 AM	11:00 AM	11:00 AM	11:00 AM	11:00 AM			
AM Combined	11:00 AM	10:30 AM	9:15 AM	11:00 AM	10:45 AM	11:00 AM	10:30 AM			
PM NB	2:00 PM	1:30 PM	1:15 PM	3:45 PM	4:15 PM	3:45 PM	3:45 PM			
PM SB	4:30 PM	4:30 PM	4:15 PM	5:00 PM	12:15 PM	12:45 PM	5:00 PM			
PM Combined	4:00 PM	4:00 PM	4:00 PM	5:15 PM	12:15 PM	12:00 PM	4:30 PM			

Truck Peak Hour for Average Weekday Traffic (Tuesday thru Thursday) - 2018

Tues 8/14/18	Buses	Single Trucks			Combo Trucks							All Trucks & Buses (Heavy Vehicles)	Total 5-13 Trucks (Single and Combo)	Total 6-13 Trucks (=>3 Axle Single)
Vehicle Class	4 - Bus	5 - 2 Ax/6Tire	6 - 3 Axle S.	7 - 4 Axle S.	8 - <5 Axle D.	9 - 5 Axle D.	10 ->6 Axle D.	11 --<6 Axle M.	12 - 6 Axle M.	13 ->6 Axle M.				
6:00 AM	0	19	1	0	2	2	16	0	0	1	41	41	22	
7:00 AM	5	12	14	6	5	6	21	0	0	2	71	66	54	
8:00 AM	4	16	10	4	1	4	15	0	0	3	57	53	37	
9:00 AM	5	10	17	5	2	2	22	0	0	7	70	65	55	
10:00 AM	4	14	14	8	2	3	14	0	0	5	64	60	46	
11:00 AM	2	22	9	4	6	2	25	0	0	8	78	76	54	
12:00 PM	8	23	14	7	4	3	12	0	0	16	87	79	56	
1:00 PM	1	23	8	2	0	2	14	0	0	8	58	57	34	
2:00 PM	7	26	9	6	0	3	9	0	0	9	69	62	36	
3:00 PM	0	15	3	1	3	0	10	0	0	1	33	33	18	
4:00 PM	0	17	0	0	1	0	0	0	0	0	18	18	1	
5:00 PM	0	13	0	0	1	0	0	0	0	0	14	14	1	
Peak Truck Hour: 12 PM											87	79	56	

Wed 8/15/18	Buses	Single Trucks			Combo Trucks							All Trucks & Buses (Heavy Vehicles)	Total 5-13 Trucks (Single and Combo)	Total 6-13 Trucks (=>3 Axle Single)
Vehicle Class	4 - Bus	5 - 2 Ax/6Tire	6 - 3 Axle S.	7 - 4 Axle S.	8 - <5 Axle D.	9 - 5 Axle D.	10 ->6 Axle D.	11 --<6 Axle M.	12 - 6 Axle M.	13 ->6 Axle M.				
6:00 AM	1	16	4	0	1	6	14	0	0	2	44	43	27	
7:00 AM	2	12	5	3	4	5	28	1	0	3	63	61	49	
8:00 AM	2	20	10	1	1	3	14	0	0	2	53	51	31	
9:00 AM	5	9	6	2	5	4	21	0	0	6	58	53	44	
10:00 AM	2	15	7	0	1	4	21	0	0	11	61	59	44	
11:00 AM	4	7	3	4	2	3	20	0	0	17	60	56	49	
12:00 PM	9	16	8	4	4	3	21	0	0	9	74	65	49	
1:00 PM	3	18	11	6	0	2	18	1	0	9	68	65	47	
2:00 PM	4	21	3	3	2	1	22	1	0	6	63	59	38	
3:00 PM	0	20	4	3	4	2	5	0	0	1	39	39	19	
4:00 PM	0	21	0	0	3	0	0	0	0	0	24	24	3	
5:00 PM	0	13	3	0	1	0	0	0	0	0	17	17	4	
Peak Truck Hour: 12 PM											74	65	49	

Thurs 8/16/18	Buses	Single Trucks			Combo Trucks							All Trucks & Buses (Heavy Vehicles)	Total 5-13 Trucks (Single and Combo)	Total 6-13 Trucks (=>3 Axle Single)
Vehicle Class	4 - Bus	5 - 2 Ax/6Tire	6 - 3 Axle S.	7 - 4 Axle S.	8 - <5 Axle D.	9 - 5 Axle D.	10 ->6 Axle D.	11 --<6 Axle M.	12 - 6 Axle M.	13 ->6 Axle M.				
6:00 AM	1	17	3	0	3	3	14	0	0	0	41	40	23	
7:00 AM	8	13	11	1	2	6	33	2	0	5	81	73	60	
8:00 AM	8	6	9	3	0	4	26	0	0	2	58	50	44	
9:00 AM	8	10	8	5	3	4	31	2	0	12	83	75	65	
10:00 AM	11	15	10	1	8	1	22	0	0	9	77	66	51	
11:00 AM	8	15	6	4	2	3	21	0	0	16	75	67	52	
12:00 PM	3	16	8	4	5	1	34	0	0	9	80	77	61	
1:00 PM	8	25	11	3	2	1	14	0	0	13	77	69	44	
2:00 PM	4	25	16	4	2	2	19	0	0	7	79	75	50	
3:00 PM	2	15	6	5	3	0	7	0	0	3	41	39	24	
4:00 PM	0	23	0	0	2	0	0	0	0	0	25	25	2	
5:00 PM	2	17	0	0	0	0	0	0	0	0	19	17	0	
Peak Truck Hour: 9 AM											83	75	65	

TYPICAL WEEKDAY TRUCK PEAK HOUR **81** **73** **57**

Average Daily Truck Traffic (Buses, Singles and Combos, Bins 4-13) @ Bridge 102 for 2018, 2017, 2015, 2012, 2011 & 2008

	TUES	WED	THUR	FRI	SAT	SUN	MON	Truck ADT Averages			Total 7-Day Trucks
	8/14/18	8/15/18	8/16/18	8/17/18	8/18/18	8/19/18	8/20/18	Tues-Thurs.	Weekend	7-Day	
ALL TRUCKS, 2018	737	711	821	696	434	348	584	756	391	619	4331
ALL TRUCKS, 2017	592	656	638	744	362	273	647	629	318	559	3912
ALL TRUCKS, 2015	641	605	517	610	409	356	600	588	383	534	3738
ALL TRUCKS, 2012	808	625	727	654	330	270	731	720	300	592	4145
ALL TRUCKS, 2011	548	521	619	565	253	295	527	563	274	475	3328
ALL TRUCKS, 2008	399	490	521	584	287	286	481	470	287	435	3048