

COLORADO

Department of Transportation







I-70 Mountain Express Lane (MEXL) 2017 Summer Season Summary (May 29 – Sep 4, 2017)





Overview of 2017 Summer Season Operations

Findings

Next Steps







Summer 2017 MEXL Overview

2017 Summer Season – Memorial Day through Labor Day (May 29th through September 4^{th)}

31 days of operation

31 percent of 100 days allowed in 2017

290 hours of operation

25 percent of 1,168 hours allowed in 2017

Typical opening time

9 AM

Typical closing time

6 PM Saturday, 7-8 PM Sunday







Year to Date Operation Summary

January 1st 2017 through September 4th (New Years through Labor Day)

- ✤66 days of operation
 - ✤ 66 percent of 100 days allowed in 2017

613 hours of operation

- 52 percent of 1,168 hours allowed in 2017
- 2017 Calendar Year End Projection
 - * 88 days (88 percent of allowable)
 - 775 Hours (66 percent of allowable)



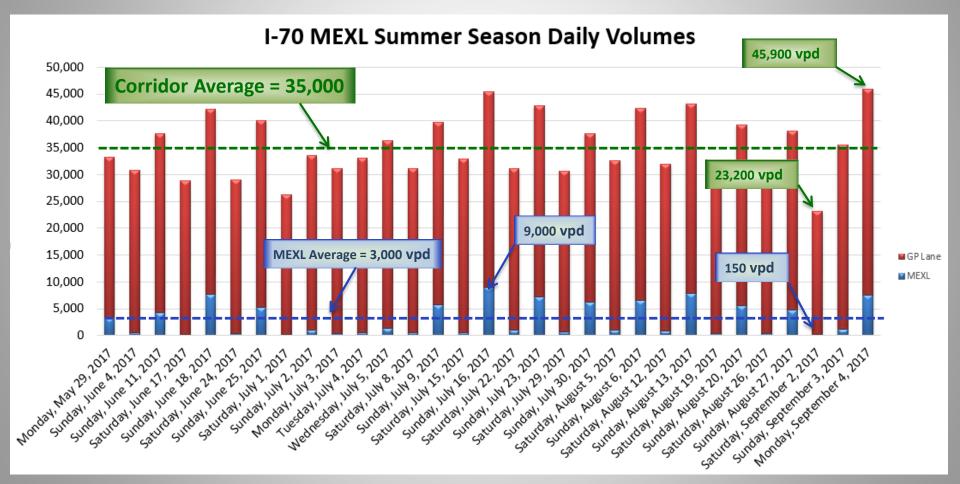


Summer Season Volume Summary

Corridor

- 1.08 million vehicles (31 days 35,000 vpd)
 - Last year: 1.06 million (29 days 36,500 vpd)
- * MEXL
 - 92,700 vehicles (3,000 vpd)
 - ✤ 8.6 percent capture rate
 - Last Year (2016): 82,600 vehicles (2,850 vpd)
 - ✤ 7.8 percent capture rate







I-70 Mtn. Express Lanes – Findings



Averages by Day

Saturday

- 2017: 29,700 vpd on corridor
 - ✤ 550 vpd in MEXL (1.9% capture rate)
- 2016: 30,300 vpd on corridor
 - ✤ 480 vpd in MEXL (1.6% capture rate)

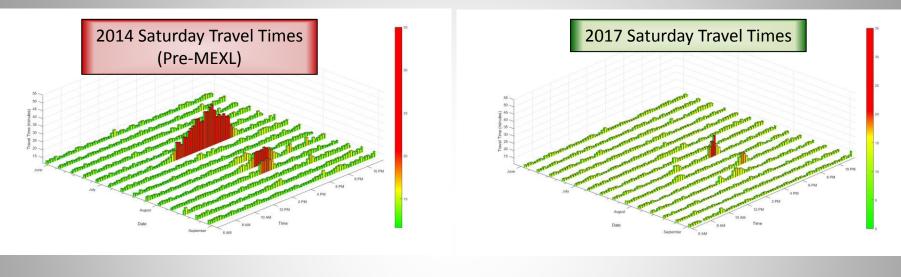
Sunday

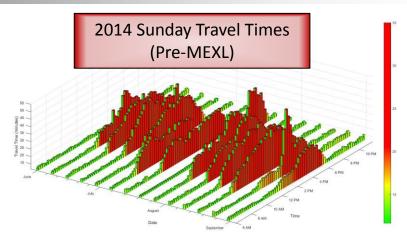
- 2017: 39,100 vpd on corridor
 - 5,200 vpd in MEXL (13.3% capture rate)
- 2016: 41,000 vpd on corridor
 - ✤ 4,700 vpd in MEXL (11.5% capture rate)

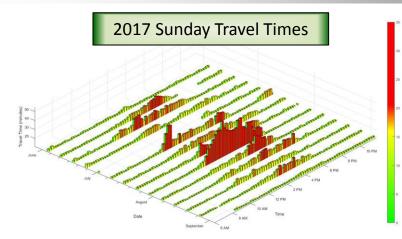


I-70 Mtn. Express Lanes – Findings













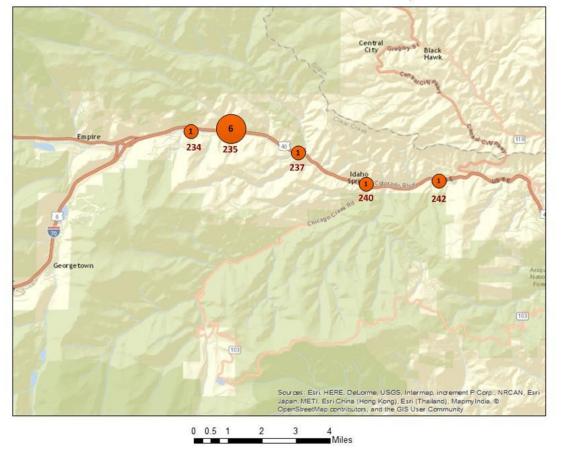
- Incidents (MEXL Open)
- 2017: 16 incidents: 6 stalled vehicles, 10 crashes
 10 crashes
 0 in MEXL
 2 straddled MEXL and GP lanes
 8 in GP lanes
- 2017: 21 incidents: 7 stalled vehicles, 14 crashes

 Average of 27 minutes between incident reported and incident cleared
 2016: 18 minutes





I-70 MEXL 2017 Summer Season Crashes by Mile Marker





I-70 Mtn. Express Lanes – Findings



Tolling

Saturday - \$5 Toll

Sunday
\$5 Toll through July 2
\$6 Toll July 9 through Labor Day





I-70 Mtn. Express Lanes – Findings



Summary

- Corridor volumes were generally similar to 2016
- MEXL capture rate increased slightly
- There were 4 fewer crashes this summer than in 2016
- Incident response times increased over last summer
- \$5 tolls on Saturday and \$6 tolls on Sunday provided a good balance between MEXL and GP lane speed differential, MEXL use, and revenue





I-70 Mtn. Express Lanes – Next Steps

Next Steps

- Fall Season continues through October
 - MEXL generally only open on Sundays
- Winter Season begins Thanksgiving Weekend
- Amended MOU is executed and distributed
- Change annual reporting cycle
 - Current: January 1st through December 31st
 - New: November 1st through October 31st



I-70 Mtn. Express Lanes



Thank You Any Questions??

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I-70 Mtn. Express Lanes – Summary



Date	Express Lane Volume	General Purpose Lanes ¥olume	Total Corridor ¥olume	Peak Hour	Peak Hour ¥olume	MEXL Peak Hour Speed	GP Lanes Peak Hour Speed	Time Opened	Time Closed	Notes
Summer Season 2017										
Monday, May 29, 2017	3,333	29,952	33,285	1:00 PM	3,877	42 MPH	36 MPH	9:00 AM	6:00 PM	Two incidents
Sunday, June 4, 2017	470	30,330	30,800	2:00 PM	2,863	58 MPH	56 MPH	2:45 PM	5:00 PM	No Incidents
Sunday, June 11, 2017	4,252	33,409	37,661	2:00 PM	3,475	59 MPH	41 MPH	9:00 AM	6:30 PM	No Incidents
Saturday, June 17, 2017	285	28,564	28,849	4:00 PM	2,559	52 MPH	63 MPH	9:00 AM	6:00 PM	One Incident
Sunday, June 18, 2017	7,633	34,551	42,184	11:00 AM	3,514	54 MPH	30 MPH	9:00 AM	7:30 PM	One Incident
Saturday, June 24, 2017	357	28,639	28,996	4:00 PM	2,698	60 MPH	59 MPH	9:00 AM	6:00 PM	No Incidents
Sunday, June 25, 2017	5,187	34,890	40,077	1:00 PM	3,385	54 MPH	38 MPH	9:00 AM	8:35 PM	One Incident
Saturday, July 1, 2017	203	25,952	26,155	2:00 PM	2,067	50 MPH	66 MPH	9:00 AM	7:00 PM	No Incidents
Sunday, July 2, 2017	1,060	32,423	33,483	2:00 PM	2,974	61 MPH	56 MPH	9:00 AM	7:00 PM	No Incidents
Monday, July 3, 2017	367	30,789	31,156	2:00 PM	2,731	61 MPH	65 MPH	9:00 AM	5:00 PM	No Incidents
Tuesday, July 4, 2017	621	32,383	33,004	1:00 PM	2,867	56 MPH	63 MPH	9:00 AM	5:00 PM	No incidents
Wednesday, July 5, 2017	1,431	34,918	36,349	12:00 PM	3,317	58 MPH	42 MPH	11:30 AM	5:00 PM	No Incidents
Saturday, July 8, 2017	578	30,486	31,064	2:00 PM	2,665	64 MPH	62 MPH	9:00 AM	6:00 PM	No Incidents
Sunday, July 9, 2017	5,721	34,014	39,735	1:00 PM	3,743	52 MPH	38 MPH	9:00 AM	7:15 PM	One Incident
Saturday, July 15, 2017	555	32,255	32,810	4:00 PM	2,895	59 MPH	60 MPH	9:00 AM	7:00 PM	One Incident
Sunday, July 16, 2017	8,964	36,407	45,371	1:00 PM	3,624	54 MPH	39 MPH	9:00 AM	9:00 PM	No Incidents
Saturday, July 22, 2017	1,060	29,997	31,057	3:00 PM	2,787	61 MPH	32 MPH	9:00 AM	6:30 PM	Two incidents
Sunday, July 23, 2017	7,191	35,550	42,741	4:00 PM	3,715	52 MPH	37 MPH	9:00 AM	8:00 PM	One incident
Saturday, July 29, 2017	651	30,011	30,662	11:00 AM	2,650	52 MPH	39 MPH	9:00 AM	6:00 PM	No Incidents
Sunday, July 30, 2017	6,267	31,330	37,597	12:00 PM	3,272	50 MPH	28 MPH	9:00 AM	7:40 PM	Three incidents
Saturday, August 5, 2017	1,079	31,562	32,641	5:00 PM	2,983	60 MPH	41 MPH	9:00 AM	6:30 PM	No Incidents
Sunday, August 6, 2017	6,628	35,705	42,333	12:00 PM	3,614	59 MPH	47 MPH	9:00 AM	7:30 PM	One incident
Saturday, August 12, 2017	899	31,028	31,927	3:00 PM	2,954	60 MPH	37 MPH	9:00 AM	6:00 PM	No Incidents
Sunday, August 13, 2017	7,822	35,310	43,132	3:00 PM	3,557	55 MPH	37 MPH	9:00 AM	8:00 PM	No Incidents
Saturday, August 19, 2017	434	29,869	30,303	4:00 PM	2,850	69 MPH	66 MPH	9:00 AM	6:00 PM	No Incidents
Sunday, August 20, 2017	5,503	33,758	39,261	1:00 PM	3,593	53 MPH	35 MPH	9:00 AM	7:00 PM	One incident
Saturday, August 26, 2017 Sunday, August 27, 2017	460 4,831	28,631 33,247	29,091 38,078	4:00 PM	2,847 3,647	63 MPH 61 MPH	64 MPH 44 MPH	9:00 AM 9:00 AM	6:00 PM 7:00 PM	No Incidents One incident
Saturday, September 2, 2017	152	23,027	23,179	4:00 PM	1,993	49 MPH	68 MPH	9:00 AM	5:30 PM	No Incidents
Sunday, September 3, 2017	1,152	34,372	35,524	4:00 PM	3,163	61 MPH	47 MPH	9:00 AM	7:00 PM	No Incidents
Monday, September 4, 2017	7,596	38,300	45,896	10:00 AM	3,965	62 MPH	50 MPH	9:00 AM	7:00 PM	Two incidents