

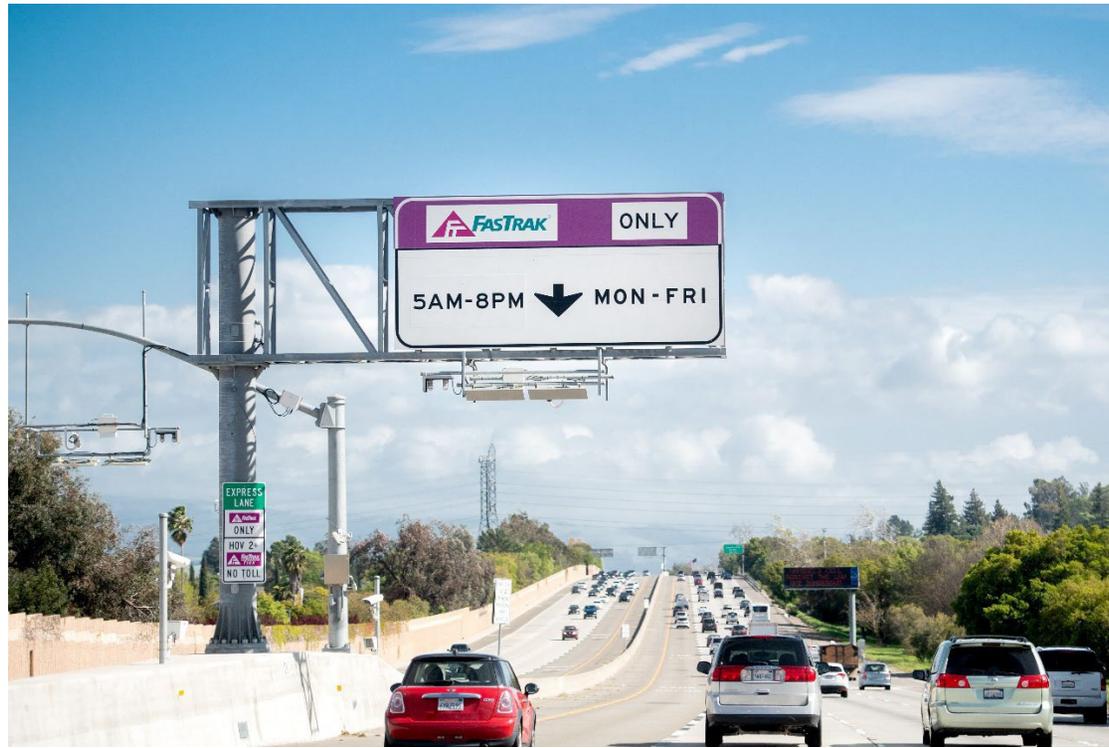
BAIFA Express Lanes Performance Report 4th Quarter 2023: October – December

I-680 Contra Costa and I-880 Express Lanes



Bay Area Infrastructure Financing Authority Network and Operations Committee
April 12, 2024

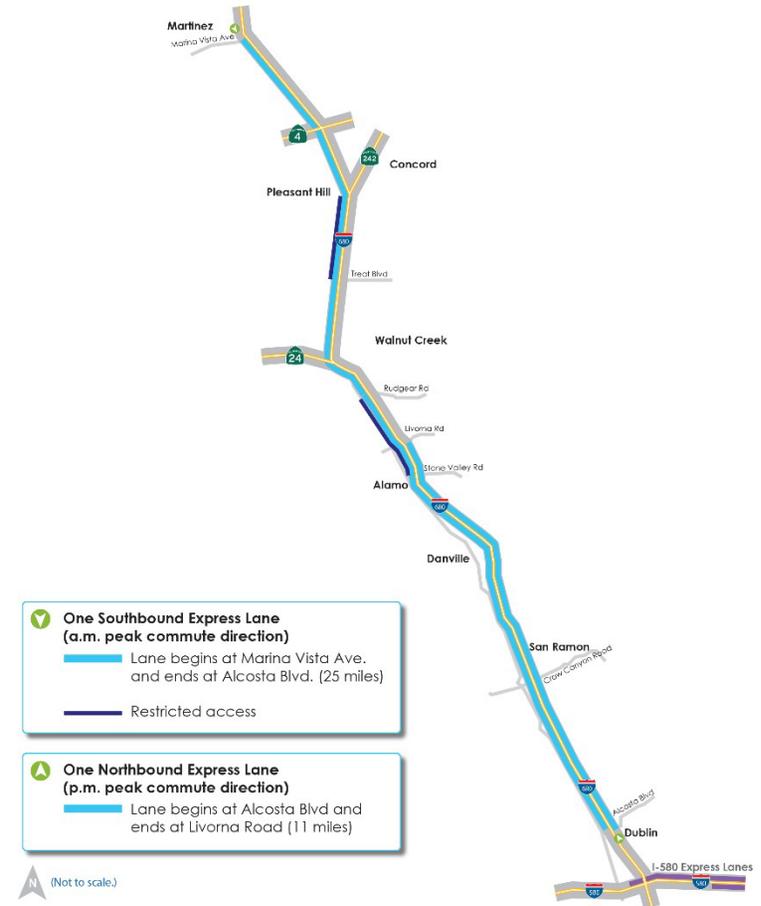
I-680 Contra Costa Express Lanes



I-680 Contra Costa Express Lanes Policies

- Tolling Hours are 5 a.m. to 8 p.m. Monday – Friday.
- All drivers must have a FasTrak® account to avoid penalties.
 - Solo drivers can carry a standard FasTrak tag* or a FasTrak Flex® tag set to 1 or pay tolls via license plate.
 - Carpools (2+) travel toll-free with FasTrak Flex toll tags set to 2 or 3+.
 - Motorcycles travel toll-free with FasTrak Flex toll tags set to 3+.
 - Solo-drivers in eligible clean-air vehicles (CAV) pay half-price tolls with FasTrak CAV toll tags set to 1.

*Standard FasTrak tags do not have a switch and were issued prior to January 2020.



The infographic is divided into two main sections:

- Carpools:** Must Have FasTrak Flex®. Shows a car with 2+ people and a "FREE" tag. A note says "Subject to occupancy".
- All Drivers:** Must Have FasTrak®. Shows two options:
 - A car with 1 person and a "HALF TOLL" tag with a "CAV" label.
 - A car with 1 person and a "FULL TOLL" tag.

At the bottom, two additional rules are listed:

- Motorcycles are FREE with FasTrak Flex toll tag set to 3+.**
- Clean Air Vehicles pay half-price tolls with FasTrak CAV toll tag.**

I-680 Contra Costa Express Lanes – Q4 2023 Performance Highlights

The goal of express lanes is to maximize lane use while keeping traffic moving to encourage carpooling and transit ridership.

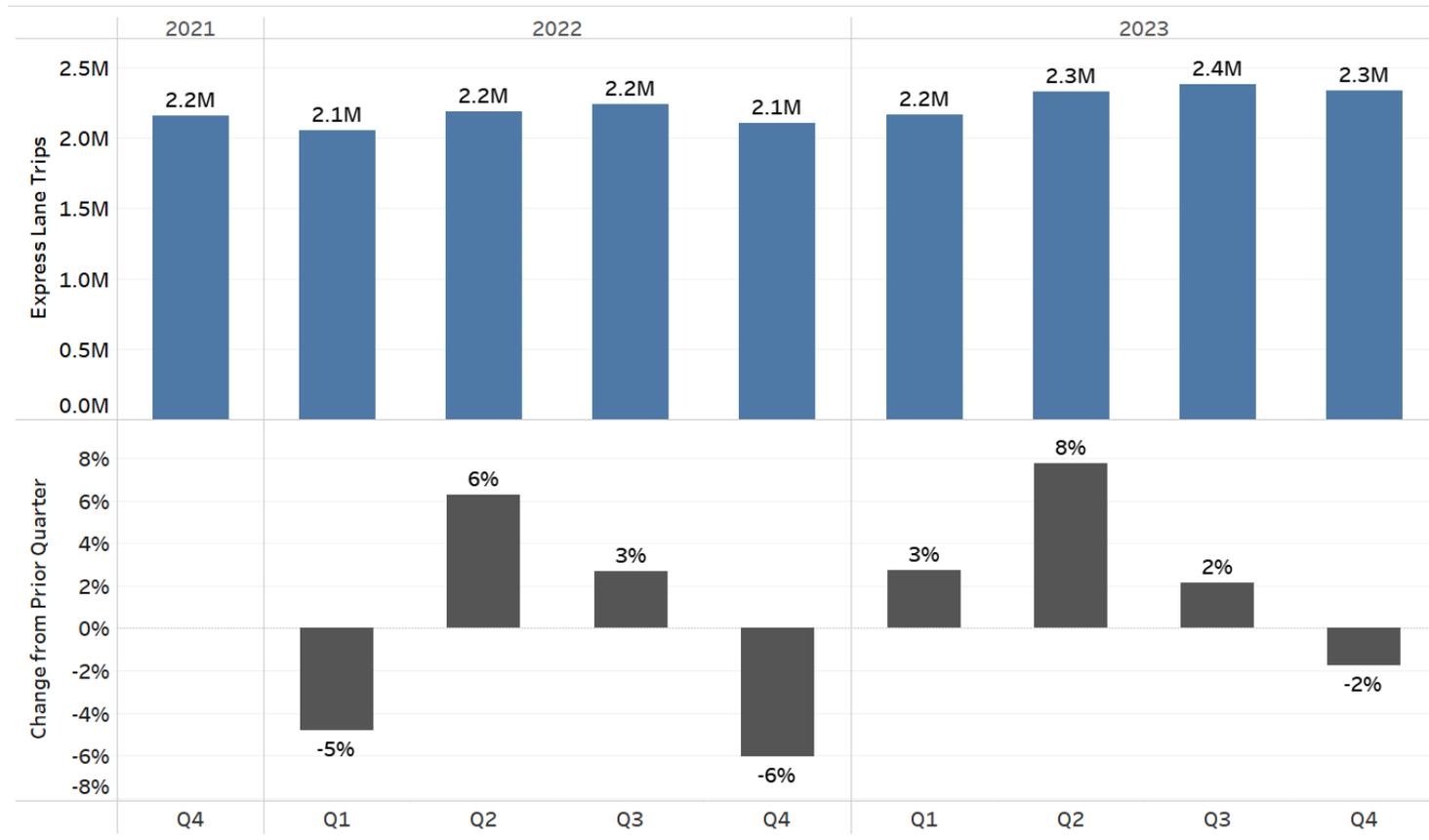
- 2.3 million express lane trips were made in Q4 2023. The Average Daily Trip count (ADT) decreased 0.2% from the prior quarter (Q3 2023), which led to a 2% decrease in total trips. Compared to a year ago (Q4 2022), total trips and ADT increased by 11%.
- The share of toll-free HOV 2+ trips was 42%, 1% more than Q3 2023 and 3% more than Q4 2022. This share has ranged between 30% and 46% per quarter over the history of the lanes and was at its highest in Q1 2020.
- 11% of express lane trips were violations – unpaid trips made without a FasTrak account – 1% less than in Q3 2023.
- Q4 2023 toll revenue increased 4% from Q3 2023. Tolloed trips decreased 4% and the average toll paid increased 8%. Q4 2023 toll revenue increased 20% from Q4 2022 as tolloed trips increased 6% and the average toll paid increased 14%.
- Corridor-length northbound travel was slowest between 4:00 p.m. and 5:00 p.m. when express lane speed averaged 66 mph (10 mph faster than the general purpose lanes). The

northbound average toll paid peaked at \$7.30 around 3 p.m.

- Corridor-length southbound travel was slowest between 8:00 a.m. and 9:00 a.m. when express lane speed averaged 67 mph (10 mph faster than the general purpose lanes) and the average toll paid peaked at \$11.20.
- CHP made 914 enforcement contacts, of which 29% resulted in citations related to carpool occupancy. Enforcement contacts were down 9% and occupancy citations were up 51% compared to Q4 2022.

I-680 Express Lane Trips

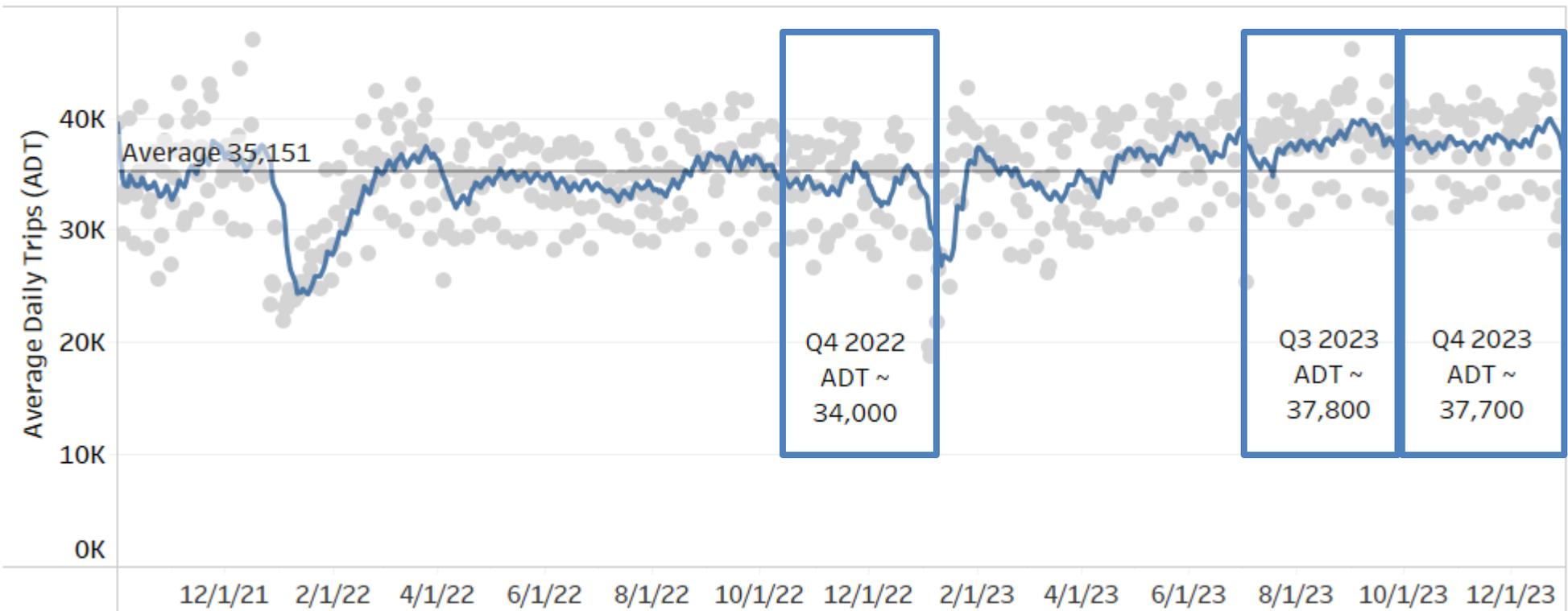
2.3 million express lane trips were made in Q4 2023. Trips were down 2% from the prior quarter (Q3 2023) and up 11% from Q4 2022.



I-680 Average Daily Express Lane Trips

The Average Daily Trip (ADT) count from October 1, 2021 through December 31, 2023 was about 35,150. Q4 2023 ADT was about 37,700, a 0.2% decrease from the prior quarter and an 11% increase from a year ago (Q4 2022).

Average Daily Trips (ADT) (grey dots) with 10-day Moving Average (blue line) (Northbound & Southbound)



I-680 Express Lanes Trip Type

Share of Trips:

Toll-free trips (HOV 2+) = 42%

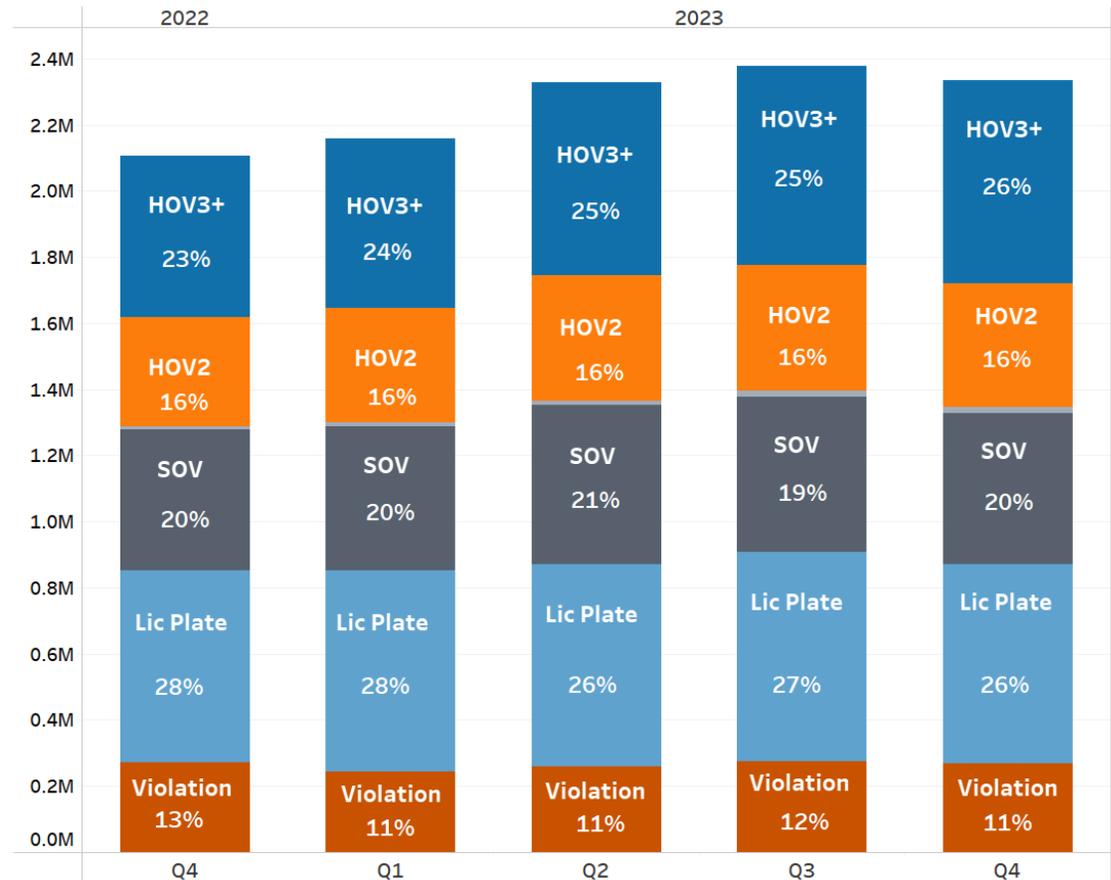
- 1% more than Q3 2023 and 3% more than Q4 2022

Tolled trips (full toll + half-toll) = 47%

- 46% full toll (SOV toll tag + license plate match) + 1% half toll (Clean Air Vehicles)
- Same as Q3 2023
- Down 2% from Q4 2022

Violation trips = 11%

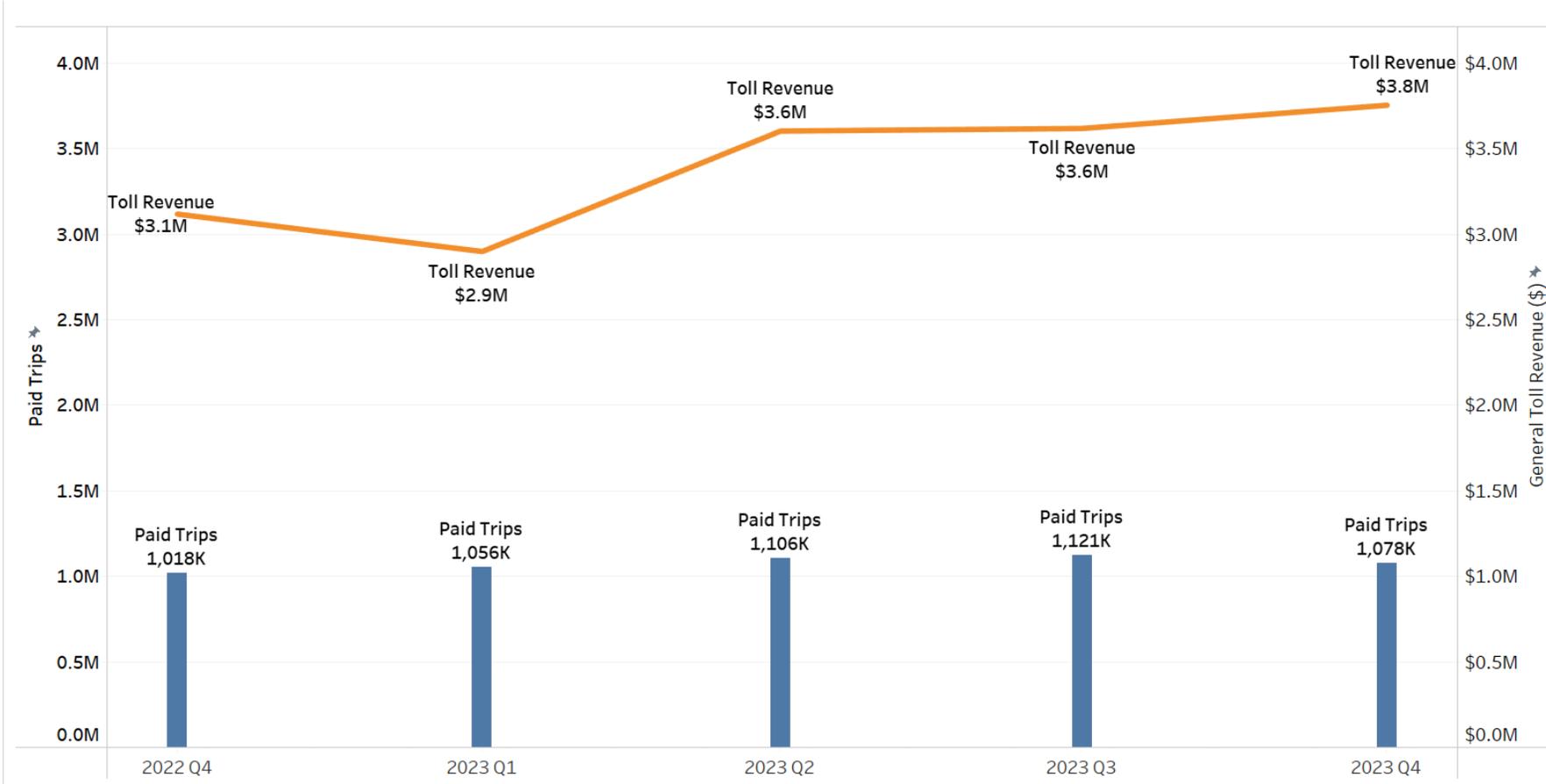
- No toll account
- Down 1% from Q3 2023
- Down 2% from Q4 2022



In each quarter, <1% to 1% of trips were made with Clean Air Vehicle Tags set to “1”, represented by the thin grey segments in the above bar chart.

I-680 Express Lanes General Toll Revenue and Tolled Trips

Q4 2023 Change	Toll Revenue	Tolled Trips	Average Toll Paid
from Prior Quarter (Q3 2023)	Up 4%	Down 4%	Up 8%
Year over Year (Q4 2022)	Up 20%	Up 6%	Up 14%



I-680 Express Lanes Northbound Peak Traffic and Corridor- Length Speed

Peak Traffic

Time	3 p.m. – 5:30 p.m.
Location	Approaching El Cerro Blvd
Express Lane Speed	66 mph
GP Lane Speed	57 mph
Speed Differential	9 mph
Express Lane Volume	859 vehicles
GP Lane Volume	1,273 vehicles

Corridor-Length Slowest Travel

Time	4 p.m. – 5 p.m.
Express Lane Speed	66 mph
GP Lane Speed	56 mph
Speed Differential	10 mph

I-680 Express Lanes Southbound Peak Traffic and Corridor- Length Speed

Peak Traffic

Time	7 a.m. - 9 a.m.
Location	Approaching Treat Blvd
Express Lane Speed	68 mph
GP Lane Speed	58 mph
Speed Differential	10 mph
Express Lane Volume	525 vehicles
GP Lane Volume	1,194 vehicles

Corridor-Length Slowest Travel

Time	8 a.m. – 9 a.m.
Express Lane Speed	67 mph
GP Lane Speed	57 mph
Speed Differential	10 mph

I-680 Express Lanes Tolls

Drivers made 1,077,534 tolled express lane trips in the quarter, up 6% from a year ago (Q4 2022). About 68% of these trips were tolled less than \$3 while 11% were tolled \$9 or higher.

The Q4 2023 share of trips tolled less than \$3 decreased compared to a year ago (68% compared to 74%) and the share tolled \$9 or higher increased from 8.5% to 11%.

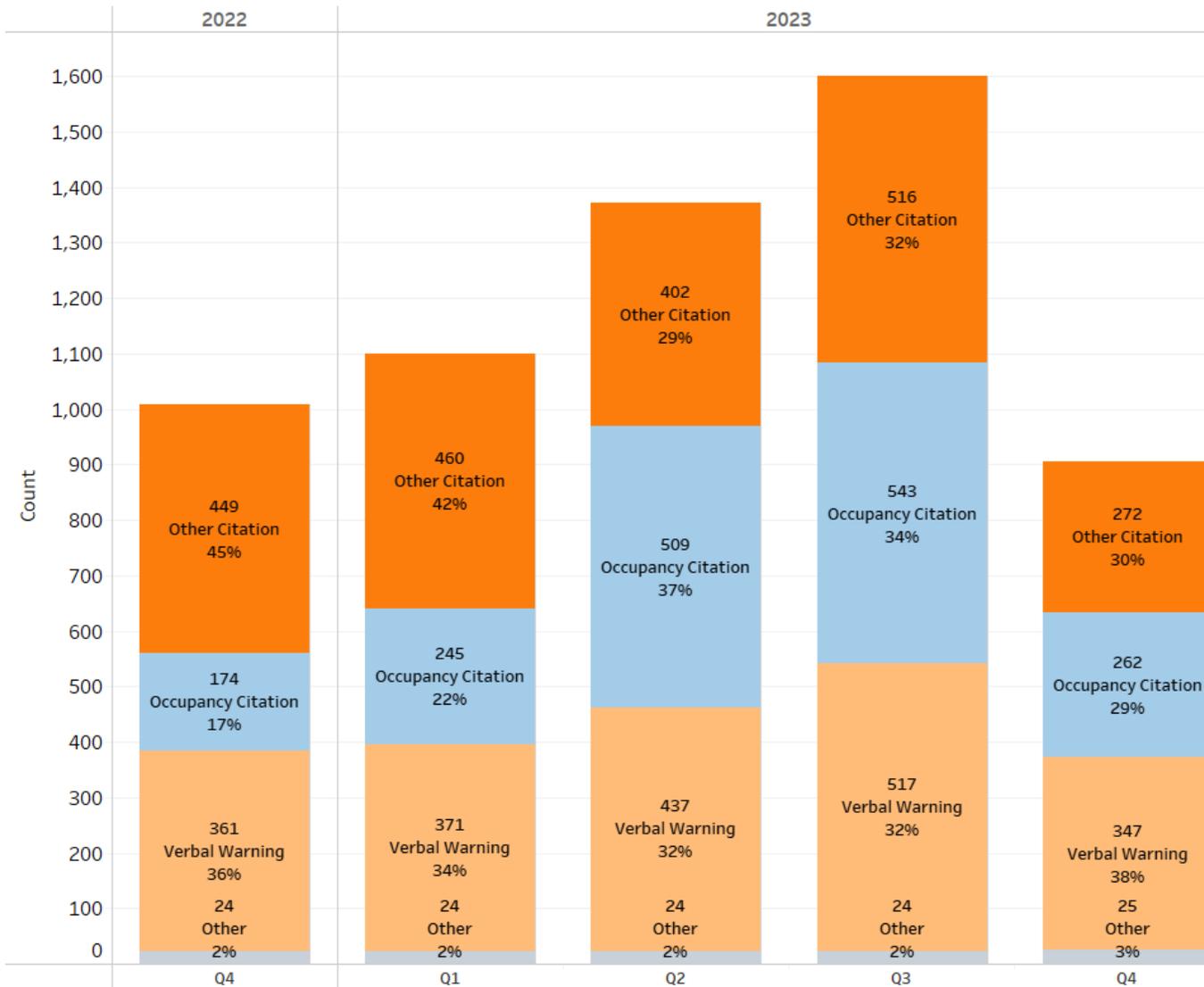
In Q4 2023 the average toll paid was \$3.48, compared to \$3.06 in Q4 2022, 14% higher.

The northbound average toll paid peaked at \$7.30 around 3 p.m., \$0.60 more than a year ago.

The southbound average toll paid peaked at \$11.20 at 7 a.m., \$0.8 more than a year ago.



I-680 Express Lanes CHP Enforcement



CHP provided 763 enforcement hours in the quarter, filling 61% of requested hours and resulting in 914 enforcement contacts. CHP's performance was affected by general staffing shortages, the holidays, and the need to provide security for the Asian Pacific Economic Cooperation (APEC) Summit.

29% of Q4 2024 contacts were related to carpool occupancy violations.

The average cost to BAIFA per enforcement contact was \$1170.

I-880 Express Lanes

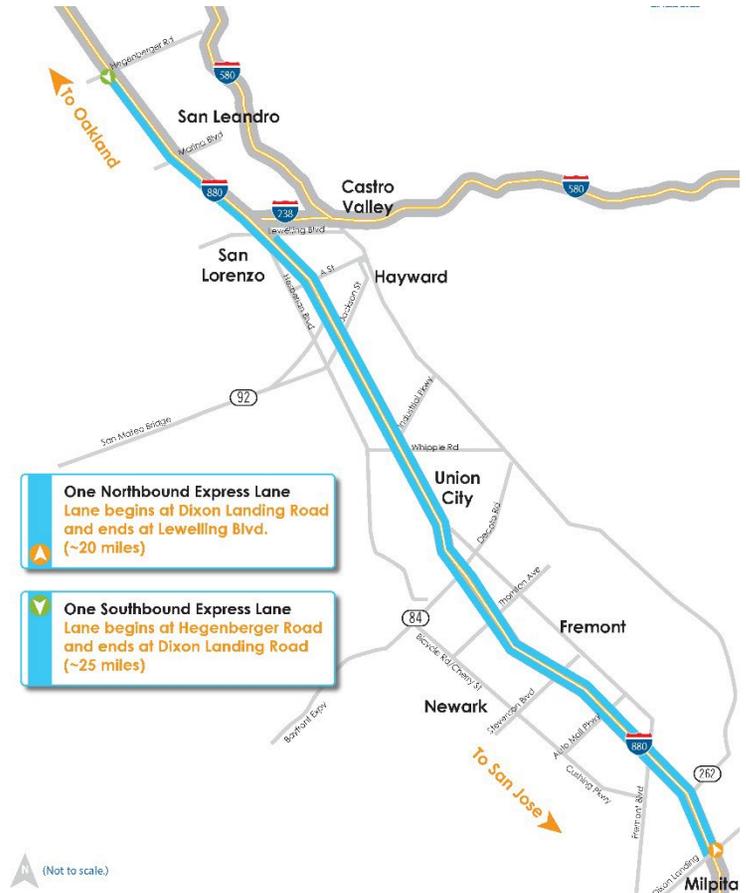


Bay Area Infrastructure Financing Authority Network and Operations Committee
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I-880 Express Lanes Policies

- Tolling Hours are 5 a.m. to 8 p.m. Monday – Friday.
- All drivers must have a FasTrak® account to avoid penalties.
 - Solo drivers can carry a standard FasTrak tag* or a FasTrak Flex® tag set to 1 or pay tolls via license plate.
 - Carpools (3+) travel toll-free with FasTrak Flex toll tags set to 3+.
 - Carpools (2) pay half-price tolls with FasTrak Flex toll tags set to 2.
 - Motorcycles travel toll-free with FasTrak Flex toll tags set to 3+.
 - Solo-drivers in eligible clean-air vehicles (CAV) pay half-price tolls with FasTrak CAV toll tags set to 1.

*Standard FasTrak tags do not have a switch and were issued prior to January 2020.



Carpools		All Drivers	
Must Have FasTrak Flex*		Must Have FasTrak*	
<p>3+ FREE</p>	<p>2 HALF TOLL</p>	<p>1 HALF TOLL</p>	<p>1 FULL TOLL</p>
<p>Motorcycles are FREE with FasTrak Flex toll tag set to 3+.</p>		<p>Clean Air Vehicles pay half-price tolls with FasTrak CAV toll tag.</p>	

I-880 Express Lanes – Q4 2023 Performance Highlights

- 3.9 million express lane trips were made in Q4 2023. The Average Daily Trip count (ADT) of 63,500 was down 7% from the prior quarter (Q3 2023) and up 2% from a year ago (Q4 2022).
- The share of toll-free HOV 3+ trips was 44%, up 4% from Q3 2023 and up 5% from Q4 2022. The share of half-price HOV 2 trips was 7%, the same as last quarter (Q3 2023) and last year (Q4 2022).
- 14% of express lane trips were violations - trips made without a FasTrak account. The share is same as the prior quarter and a year ago.
- Quarterly toll revenue was down 7% from the last quarter. Tolloed trips were down 8% and average toll paid was up 2% compared to the previous quarter. Quarterly toll revenue was up 11% from a year ago (Q4 2022). Tolloed trips were up 2% and the average toll assessed increased 8% compared to a year ago.

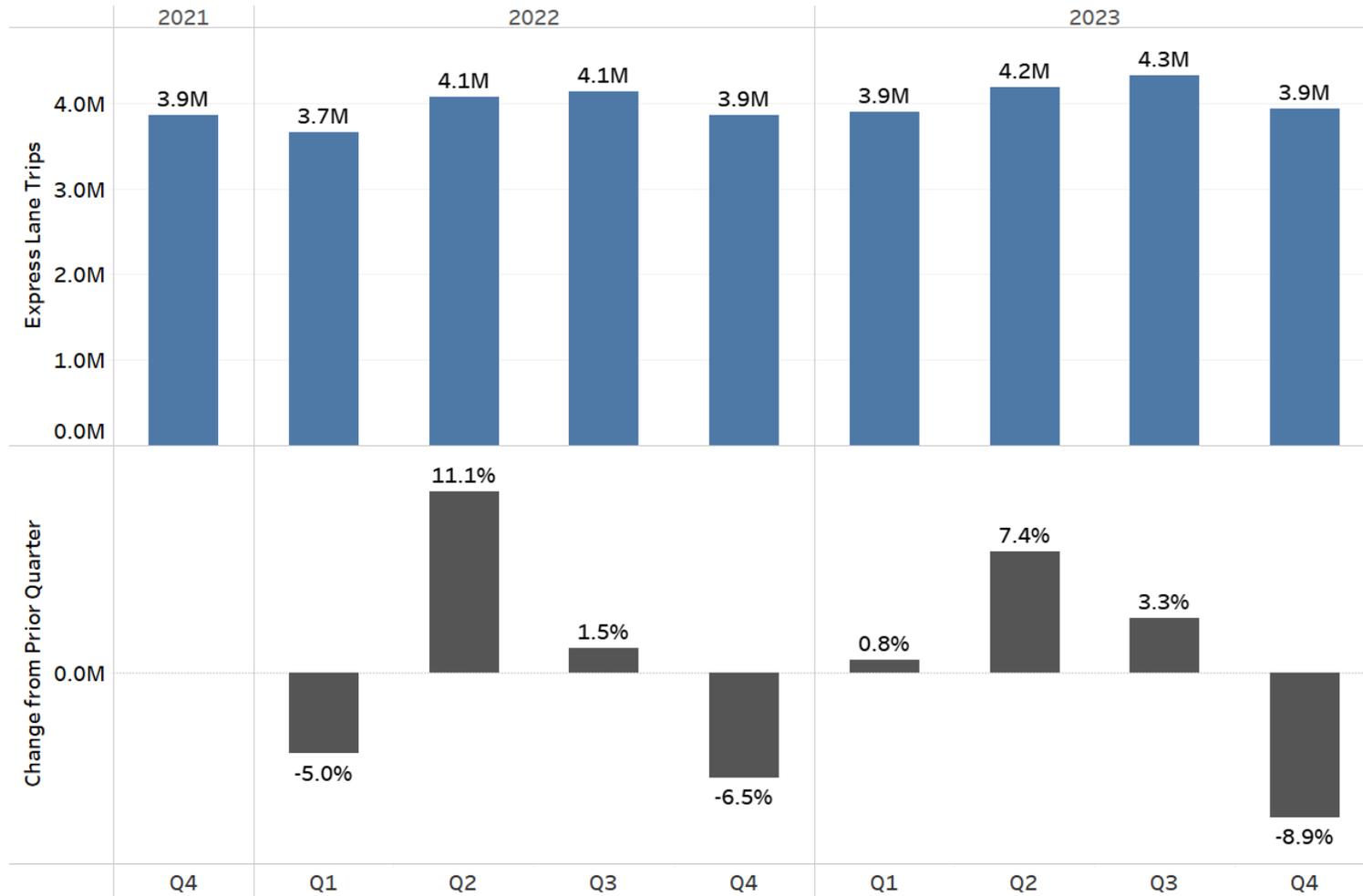
The goal of express lanes is to maximize lane use while keeping traffic moving to encourage carpooling and transit ridership.

I-880 Express Lanes – Q4 2023 Performance Highlights, continued

- Corridor-length northbound travel was slowest between 5 p.m. and 6 p.m. when express lane speed averaged 49 mph (16 mph faster than the general purpose lanes). The northbound average toll paid peaked at \$13.60 between 4 p.m. and 5 p.m. Corridor-length southbound travel was slowest between 8 a.m. and 9 a.m. when express lane speed averaged 57 mph (12 mph faster than the general purpose lanes) and the toll paid peaked at \$11.20 around 7 a.m.
- CHP spent 1,720 hours patrolling the I-880 express lanes, resulting in almost 1,250 enforcement contacts. Of those, 20% resulted in citations for crossing double white lines and 34% in citations related to carpool occupancy.

I-880 Express Lane Trips

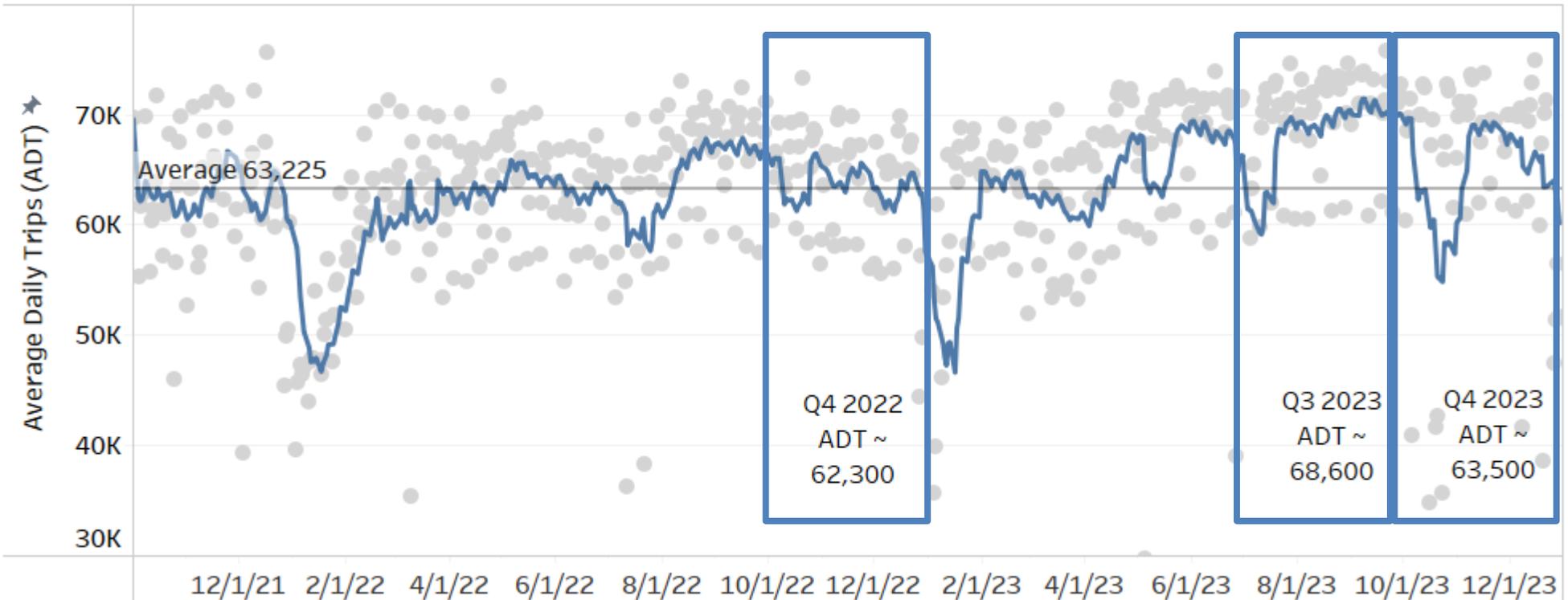
3.9 million express lane trips were made in Q4 2023. Trips were down 9% from the prior quarter (Q3 2023) and up 2% from a year ago (Q4 2022).



I-880 Express Lane Average Daily Express Lane Trips

The Average Daily Trip (ADT) count from October 1, 2021 through December 31, 2023 was 63,225. Q4 2023 ADT was about 63,500, a 7% decrease from the prior quarter and an 2% increase from a year ago (Q4 2022).

Average Daily Trips (ADT) (grey dots) with 10-day Moving Average (blue line) (Northbound & Southbound)



I-880 Express Lane Trip Type

Share of Trips:

Toll-free trips (HOV 3+) = 44%

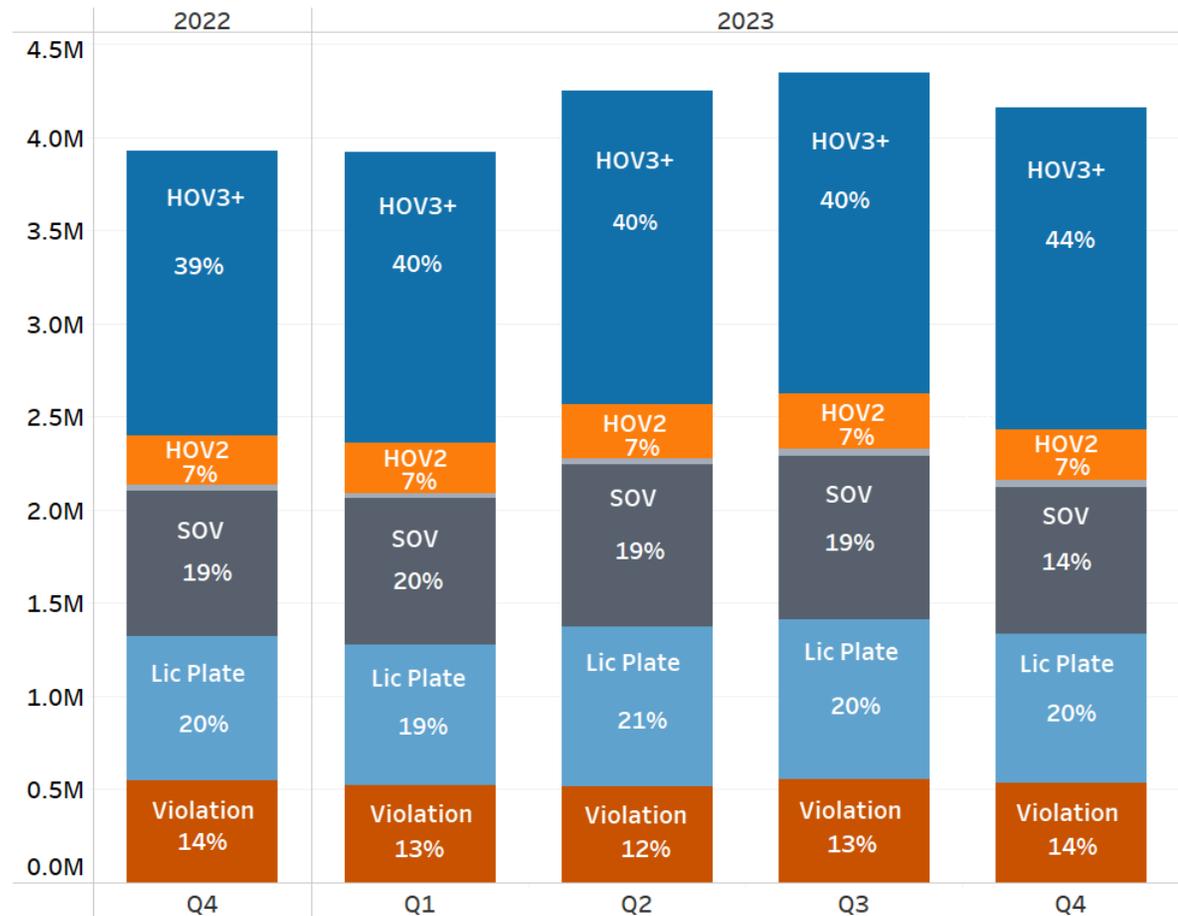
- Up 4% from Q3 2023 and up 5% from Q4 2022

Tolled trips (full toll + half-toll) = 41%

- 34% full toll (SOV toll tag + license plate match)
- Full toll share down 5% from last quarter and 5% down from last year
- 8% half toll (HOV 2 + CAV (Clean Air Vehicle))
- Half toll share same as a year ago and last quarter

Violation trips = 14%

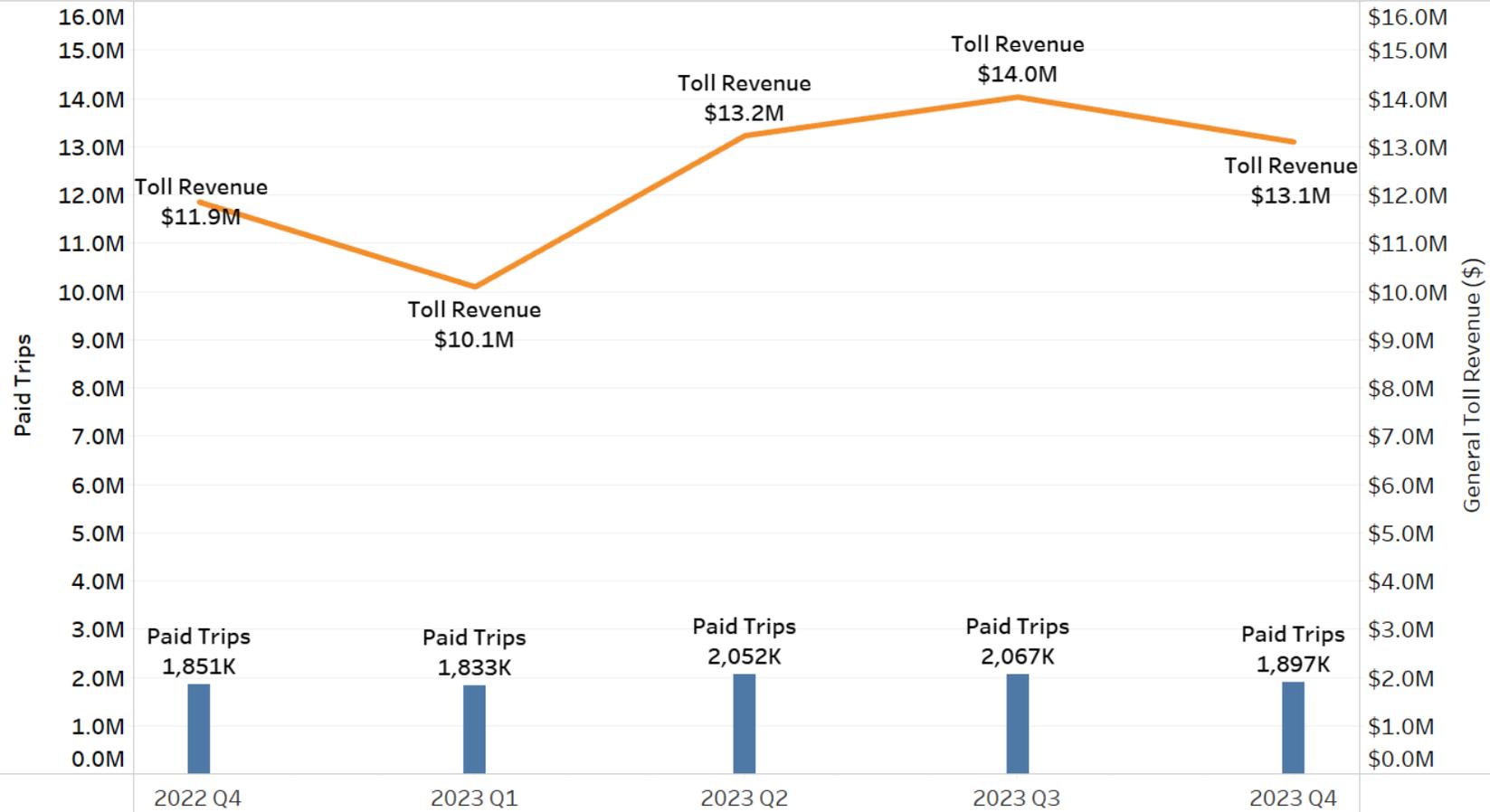
- No toll account
- Same share as a year ago and up 1% from last quarter



In each quarter, 1% of trips were made with Clean Air Vehicle Tags set to "1", represented by the thin grey segments in the above bar chart.

I-880 Express Lane General Toll Revenue and Tolled Trips

Q4 2023 Change	Toll Revenue	Tolled Trips	Average Toll Paid
from Prior Quarter (Q3 2023)	Down 7%	Down 8%	Up 2%
Year over Year (Q4 2022)	Up 11%	Up 2%	Up 8%



I-880 Express Lane Northbound Peak Traffic and Corridor- Length Speed

Peak Traffic

Time	3 p.m. - 6 p.m.
Location	Around Tennyson Rd.
Express Lane Speed	52 mph
GP Lane Speed	35 mph
Speed Differential	17 mph
Express Lane Volume	1,158 vehicles
GP Lane Volume	1,194 vehicles

Corridor Length Slowest Travel

Time	5 p.m. - 6 p.m.
Express Lane Speed	49 mph
GP Lane Speed	33 mph
Speed Differential	16 mph

I-880 Express Lane Southbound: Peak Traffic and Corridor-Length Speed

Peak Traffic

Time	7 a.m. – 9 a.m.
Location	Approaching Alvarado-Niles Rd.
Express Lane Speed	57 mph
GP Lane Speed	45 mph
Speed Differential	12 mph
Express Lane Volume	965 vehicles
GP Lane Volume	1,141 vehicles

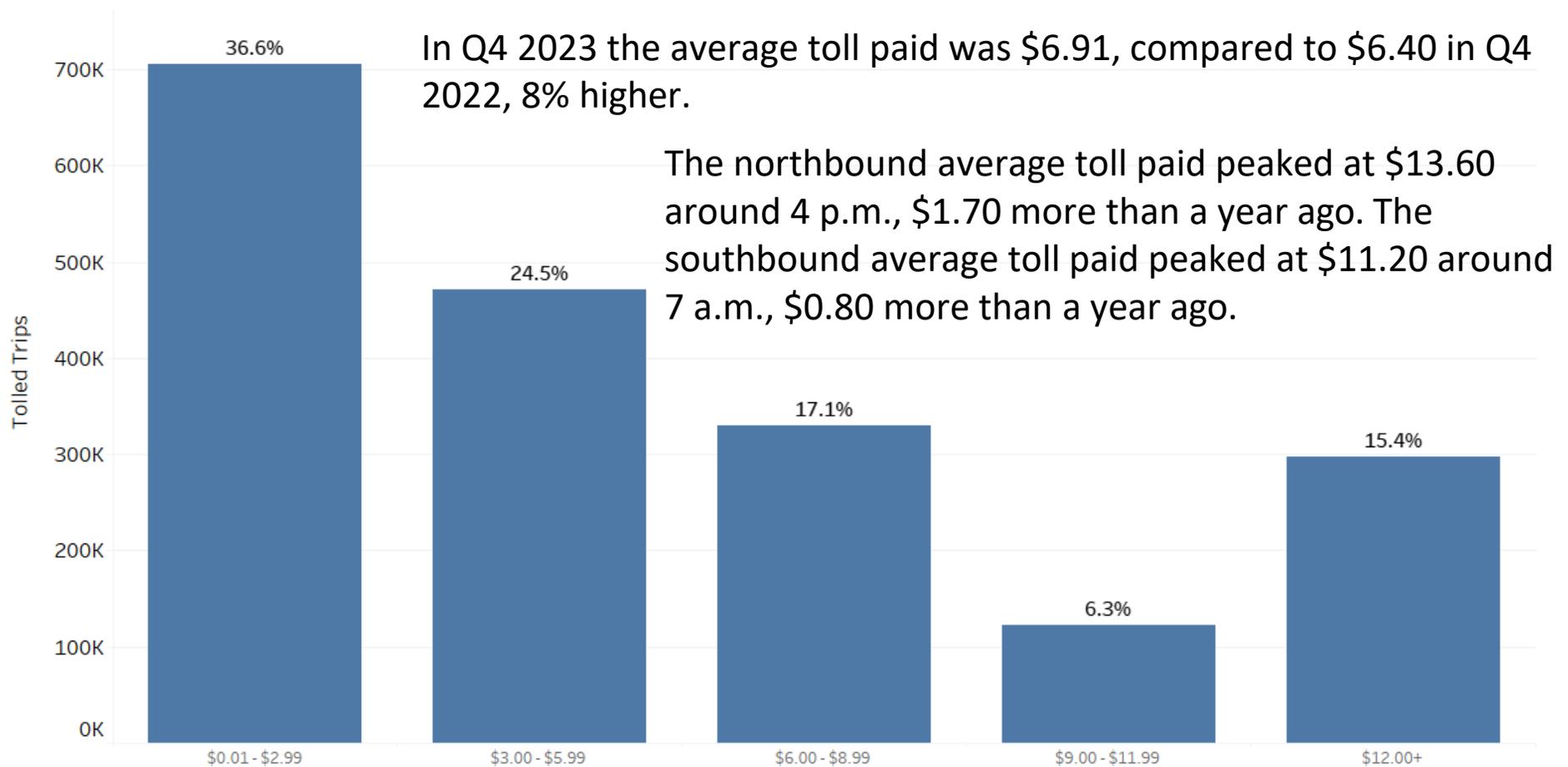
Corridor Length Slowest Travel

Time	8 a.m. – 9 a.m.
Express Lane Speed	57 mph
GP Lane Speed	45 mph
Speed Differential	12 mph

I-880 Express Lane Tolls

Drivers made 1,896,870 tolled express lane trips in the quarter, up 2% from a year ago (Q4 2022). Around 37% of these trips incurred a toll less than \$3 and 15% were for tolls \$12 or higher.

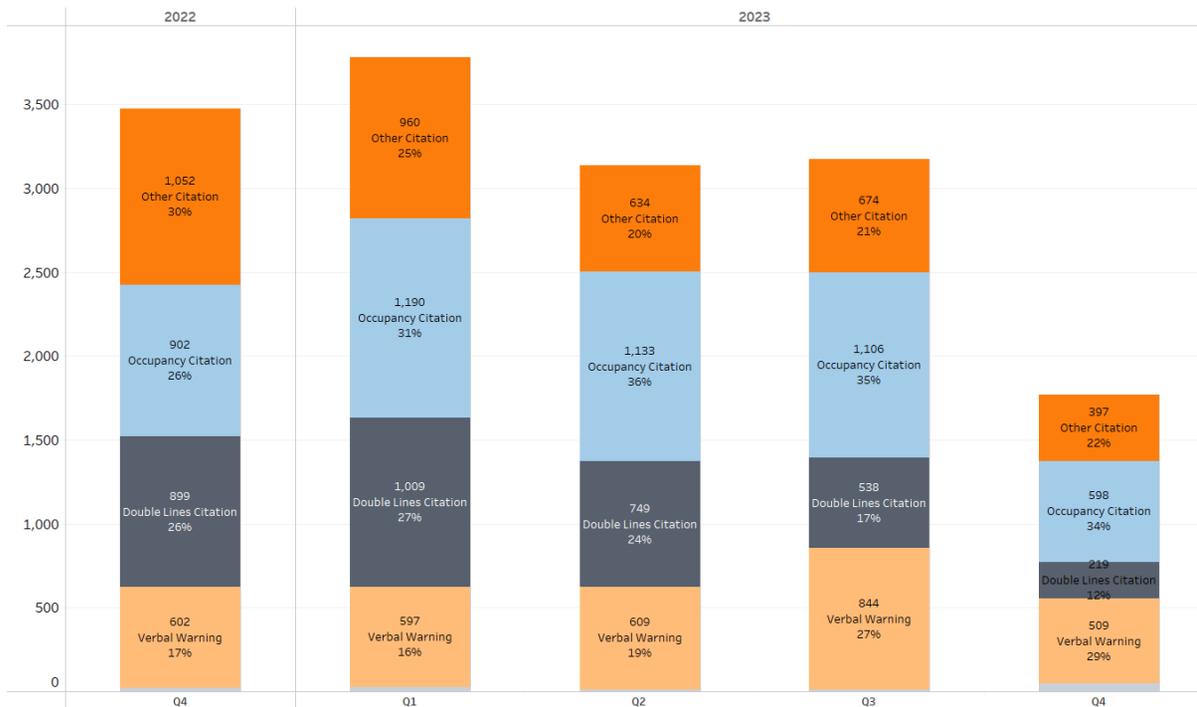
The share of trips tolled less than \$3 decreased from a year ago (37% compared to 40%) and the share tolled trips \$12 or higher increased from 13% to 15.4%.



I-880 Express Lanes CHP Enforcement

CHP provided 1,836 enforcement hours in the quarter, filling 73% of requested hours and resulting in 1,768 enforcement contacts.

CHP's performance was affected by general staffing shortages, the holidays, and the need to provide security for the Asian Pacific Economic Cooperation (APEC) Summit. In addition, per MTC request, some CHP officers are now stationed at observation areas in the freeway median as a deterrent to drivers incorrectly setting their toll tags when using the express lanes; this results in fewer enforcement contacts.



The average cost to BAIFA per enforcement contact was \$142. 34% of Q4 2023 enforcement contacts were related to carpool occupancy violations.

Appendix A: Select Chart Data – I-680 Express Lanes

Quarterly Express Lane Trips and Quarter-to-Quarter Percentage Change

Quarter	Year	Express Lane Trips	% Change
Q4	2021	2,159,690	14%
Q1	2022	2,055,790	-5%
Q2	2022	2,184,416	6%
Q3	2022	2,242,421	3%
Q4	2022	2,106,882	-6%
Q1	2023	2,164,166	3%
Q2	2023	2,331,921	8%
Q3	2023	2,381,431	2%
Q4	2023	2,339,130	-2%

Express Lane Trips - Payment Type Share

	2022	2023	2023	2023	2023
	Q4	Q1	Q2	Q3	Q4
Blank					
Blank					
HOV3+	23%	24%	25%	25%	26%
HOV2	16%	16%	16%	16%	16%
CAV	0%	1%	1%	1%	1%
SOV-Tag	20%	20%	21%	19%	20%
LP Read	28%	28%	26%	27%	26%
Violations	13%	11%	11%	12%	11%

Appendix A, continued

Toll Revenue and Tolled Trips

Year & Quarter	Revenue	Tolled Trips
2022 Q4	\$3,116,641	1,017,704
2023 Q1	\$2,898,120	1,055,664
2023 Q2	\$3,602,136	1,106,169
2023 Q3	\$3,617,308	1,121,047
2023 Q4	\$3,753,215	1,077,534

Toll Distribution

Toll	\$0.01 - \$2.99	\$3.00 - \$5.99	\$6.00 - \$8.99	\$9.00 +
% Tolled Trips	68.1%	11.3%	9.4%	11.2%

Appendix A, continued, 2

CHP Enforcement

Year	Quarter	Enforcement Type	Quarterly Share	Count
2022	Q4	Other Citation	45%	449
2022	Q4	Occupancy Citation	17%	174
2022	Q4	Verbal Warning	36%	361
2022	Q4	Other	2%	24
2023	Q1	Other Citation	42%	460
2023	Q1	Occupancy Citation	22%	245
2023	Q1	Verbal Warning	34%	371
2023	Q1	Other	2%	24
2023	Q2	Other Citation	29%	402
2023	Q2	Occupancy Citation	37%	509
2023	Q2	Verbal Warning	32%	437
2023	Q2	Other	2%	24
2023	Q3	Other Citation	32%	516
2023	Q3	Occupancy Citation	34%	543
2023	Q3	Verbal Warning	32%	517
2023	Q3	Other	2%	24
2023	Q4	Other Citation	30%	272
2023	Q4	Occupancy Citation	29%	262
2023	Q4	Verbal Warning	38%	347
2023	Q4	Other	3%	25

Appendix B: Select Chart Data – I-880 Express Lanes

Quarterly Express Lane Trips and Percentage Change

Quarter	Year	Express Lane Trips	% Change
Q4	2021	3,854,570	2%
Q1	2022	3,662,880	-5%
Q2	2022	4,069,538	11%
Q3	2022	4,130,247	1%
Q4	2022	3,863,600	-6%
Q1	2023	3,892,636	0.75%
Q2	2023	4,181,145	7%
Q3	2023	4,320,592	3%
Q4	2023	3,936,751	-8.9

Express Lane Trips - Payment Type Share

	2022	2023	2023	2023	2023
Blank	Q4	Q1	Q2	Q3	Q4
Blank	39%	40%	40%	40%	44%
HOV3+	7%	7%	7%	7%	7%
HOV2	1%	1%	1%	1%	1%
CAV	19%	20%	19%	19%	14%
SOV-Tag	20%	19%	21%	20%	20%
LP Read	14%	13%	12%	13%	14%
Violations					

Appendix B, continued

Toll Revenue and Tolled Trips

Year & Quarter	Revenue	Tolled Trips
2022 Q4	\$11,853,849	1,851,015
2023 Q1	\$10,096,118	1,832,961
2023 Q2	\$13,231,062	2,052,109
2023 Q3	\$14,030,802	2,067,341
2023 Q4	\$13,100,757	1,896,870

Toll Distribution

Toll	\$0.01 - \$2.99	\$3.00 - \$5.99	\$6.00 - \$8.99	\$9.00 - \$11.99	\$12.00+
% Tolled Trips	36.6%	24.5%	17.1%	6.3%	15.4%

Appendix B, continued, 2

CHP Enforcement

Year	Quarter	Enforcement Type	Quarterly Share	Count
2022	Q3	Double Lines Citation	27%	831
2022	Q3	Occupancy Citation	30%	920
2022	Q3	Other	1%	20
2022	Q3	Other Citation	26%	791
2022	Q3	Verbal Warning	16%	475
2022	Q4	Double Lines Citation	26%	899
2022	Q4	Occupancy Citation	26%	902
2022	Q4	Other	1%	20
2022	Q4	Other Citation	30%	1,052
2022	Q4	Verbal Warning	17%	602
2023	Q1	Double Lines Citation	27%	1,009
2023	Q1	Occupancy Citation	31%	1,190
2023	Q1	Other	1%	25
2023	Q1	Other Citation	25%	960
2023	Q1	Verbal Warning	16%	597

Appendix B, continued, 3

CHP Enforcement, continued

2023	Q2	Double Lines Citation	24%	749
2023	Q2	Occupancy Citation	36%	1,133
2023	Q2	Other	0.4%	13
2023	Q2	Other Citation	20%	634
2023	Q2	Verbal Warning	19%	609
2023	Q3	Double Lines Citation	17%	538
2023	Q3	Occupancy Citation	35%	1,106
2023	Q3	Other	0.3%	10
2023	Q3	Other Citation	21%	674
2023	Q3	Verbal Warning	27%	844
2023	Q4	Double Lines Citation	20%	219
2023	Q4	Occupancy Citation	34%	598
2023	Q4	Other	3%	45
2023	Q4	Other Citation	16%	397
2023	Q4	Verbal Warning	26%	508

For more information, visit expresslanes.511.org or [MTC's express lanes page](#).

