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May 28, 2021

Mr. Richard Dreher Chief Financial Officer Pennsylvania Turnpike Commission 700 South Eisenhower Boulevard Middletown, PA 17057

Subject: Pennsylvania Turnpike Commission 2021 Traffic and Toll Revenue Bring Down

Letter

Dear Mr. Dreher:

The Pennsylvania Turnpike Commission (PTC or Commission) asked CDM Smith to prepare this 2021 Traffic and Toll Revenue Bring Down Letter (2021 Bring Down Letter) to be used in support of the Commission's ongoing capital improvement program and other funding requirements. This letter provides an update to the 6-Month Update to the 2020 Traffic and Toll Revenue Bring Down Letter (2020 6-Month Update) dated December 18, 2020, which was the most recent update to a series of traffic and toll revenue forecasts that also includes the 2020 Traffic and Toll Revenue Bring Down Letter (2020 Bring Down Letter), dated May 29, 2020; the 2019 Traffic and Toll Revenue Bring Down Letter (2019 Bring Down Letter), dated April 29, 2019; and the 2018 Traffic and Toll Revenue Forecast Study (2018 Forecast Study), dated April 20, 2018.

The 2020 6-Month Update included actual data through October 2020 and presented traffic and gross toll revenue forecasts from fiscal year (FY) 2020-21 through FY 2049-50. A fiscal year runs from June 1 through May 31. An additional five months of actual data (through March 2021) were available for this 2021 Bring Down Letter. The forecast period for this study remains unchanged from the previous one, extending through FY 2049-50.

This report will provide a summary of differences between the current traffic and revenue forecast and the one provided in the 2020 6-Month Update.

The updated forecasts reflect the following changes from the 2020 6-Month Update:

- E-ZPass market share estimates over the forecast period were reviewed and updated as needed.
- Actual traffic and toll revenue data were updated to include information through March 2021.



- A detailed review of COVID-19 related impacts was conducted based on an additional five months of actual data. Revised COVID-19 impacts have now been applied to the forecasts through FY 2025-26. As with the previous forecast, no COVID-19 impacts are assumed after FY 2025-26.
- A review of scheduled major roadway improvements was conducted to determine if there have been any changes since completion of the 2020 6-Month Update. This review concluded that one project on the list of committed roadway projects has been completed since the 2020 6-Month Update and has thus been removed from the list. No new projects have been added, although the timing of some have been adjusted. This will be discussed in the Committed Roadway Improvements section of this report.

These differences are described in more detail in the sections that follow below.

It is important to note that the intent of this 2021 Bring Down Letter is to review and revise, if warranted, the short-term forecasts developed as part of the 2020 6-Month Update. Any adjustments would be made based on the five months of new actual traffic and toll revenue experience since the 2020 6-Month Update was completed, including COVID-19 impacts, as well as revised assumptions summarized in the bullet points above.

The underlying socioeconomic trends and forecasts for Pennsylvania, the surrounding states, and the United States that formed the basis for the long-term traffic and toll revenue forecasts are provided in the 2018 Forecast Study.

Historical Toll Rate Increases and Current Toll Rates

Table 1 provides a summary of historical toll rate increases on the Turnpike System from 1987 to the most recent increase implemented on January 3, 2021. Rate increases are presented as a percent increase over the prior toll rate for cash/video and E-ZPass. Note that toll rate increases are generally applied systemwide, although occasional exemptions occur, as indicated in Table 1.



Table 1 Historical Toll Rate Increases Pennsylvania Turnpike

Percent Increase

	Percent I		
Date	Cash/Video	E-ZPass	Comment
1/2/1987	40.0	NA	E-ZPass was not yet implemented on the Turnpike
6/1/1991	32.0	NA	E-ZPass was not yet implemented on the Turnpike
8/1/2004	42.5	42.5	, .
1/4/2009	25.0	25.0	No increase on Findlay Connector or MFE between Uniontown
			and Brownsville
1/3/2010	3.0	3.0	No increase on Findlay Connector
1/2/2011	10.0	3.0	No increase on Findlay Connector
1/1/2012	10.0	0.0	No increase on Findlay Connector
1/6/2013	10.0	2.0	
1/5/2014	12.0	2.0	No increase on Findlay Connector
1/4/2015	5.0	5.0	No increase on Findlay Connector
1/3/2016	6.0	6.0	No increase on Findlay Connector; DRB converted from ticket
			system to barrier system and rate changes implemented
1/8/2017	6.0	6.0	No increase on Findlay Connector or DRB
1/7/2018	6.0	6.0	No increase on Findlay Connector, DRB, or the Northeast
			Extension barrier facilities
4/29/2018	6.0	6.0	Northeast Extension barrier facilities only (1)
6/3/2018	6.0	6.0	Findlay Connector only (1)
1/6/2019	6.0	6.0	
10/27/2019	6.0	6.0	BVE, AKH, and Gateway only; additional 45% surcharge over
			cash rate added to video rate at these locations
1/5/2020	6.0	6.0	No increase on BVE, AKH, or Gateway
1/3/2021	6.0	6.0	Additional 45% surcharge over cash rate added to video rate
			for Ticket System and MFE

(1) Toll rate increase coincided with vehicle classification changes from a weight-based to an axle-based system.



Periodic toll rate increases were implemented on the Turnpike System in 1987, 1991, and 2004. Beginning in 2009, annual toll increases have been implemented. During the 2000s decade, E-ZPass was phased into the Turnpike System. Until 2011, cash and E-ZPass toll rates always increased by the same percent. The toll rate schedule implemented on January 2, 2011 created a differential between cash and E-ZPass, as E-ZPass rates were increased by 3.0 percent and cash toll were increased by 10.0 percent. Rate increases differed between cash and E-ZPass in 2012, 2013, and 2014 further increasing the differential between cash and E-ZPass toll rates. After 2014, rate increases have been applied equally to both cash/video and E-ZPass.

In 2015 the toll rates increased by 5.0 percent over the prior year. From 2016 to 2021, toll rates increased by 6.0 percent annually for both cash/video and E-ZPass. As of June 2020, the entire Pennsylvania Turnpike System is an all-electronic tolling (AET) system; cash is no longer accepted, with all payments being conducted via E-ZPass or video tolling.

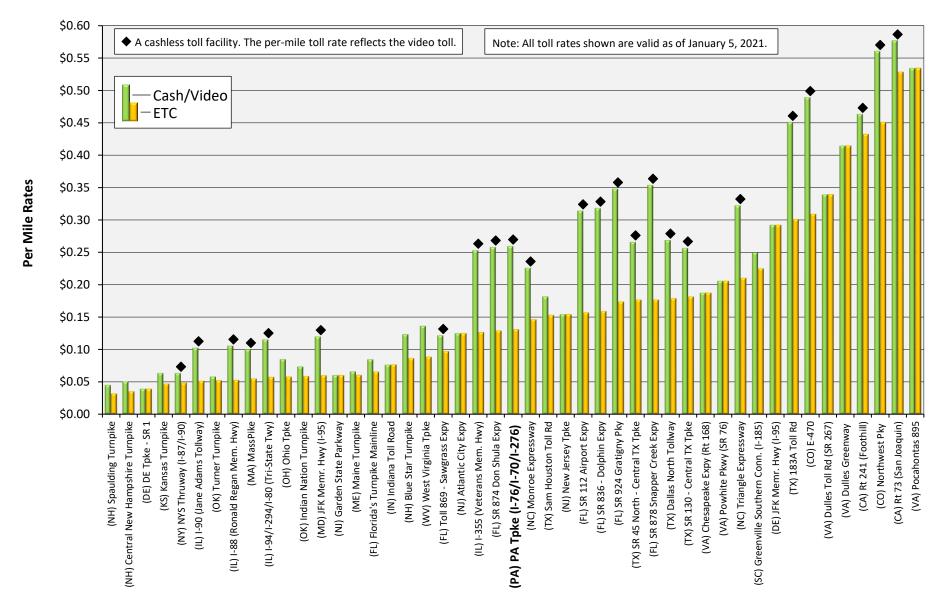
PTC policy has also been to implement a video toll surcharge upon conversion to AET; this has generally amounted to an additional 45 percent increase, making video rates about double E-ZPass rates. This 45-percent video surcharge was implemented on the last two components of the Pennsylvania Turnpike System that had previously lacked it, the Ticket System and MFE. This change was made in conjunction with the system-wide toll increase that was implemented on January 3, 2021.

It is assumed that annual toll rate increases will occur throughout the forecast period, as described in the section Actual and Assumed Toll Rate Increases and shown in Table 13.

Figures 1 and 2 show the 2021 per-mile toll rates for a through-trip on 47 U.S. toll facilities, for passenger cars (PCs) and 5-axle commercial vehicles (CVs), respectively. Per-mile rates are shown for both cash/video and ETC transactions in each figure. If a facility is all electronic (does not accept cash payments), the video toll rate is shown as the equivalent of a cash toll rate. All ETC facilities are marked with a diamond in Figures 1 and 2.

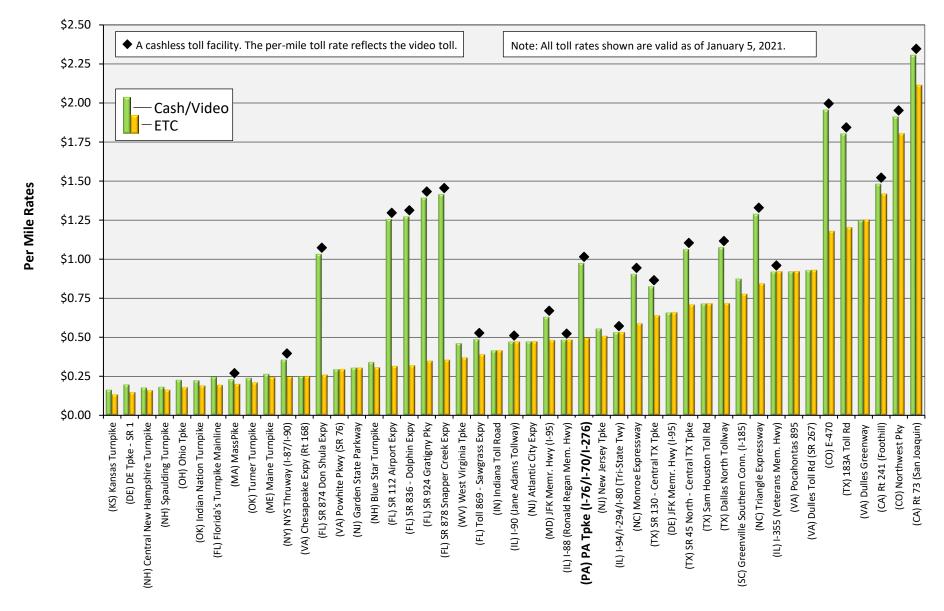
The per-mile through-trip toll rate is shown for the Pennsylvania Turnpike Mainline, which represents a trip on I-76/I-276 between New Jersey and Ohio. Figure 1 shows that even with 13 consecutive annual toll increases since 2009, the PC per-mile toll rates on the Pennsylvania Turnpike System, at 13 cents per mile for E-ZPass customers and 26 cents per mile for video customers, are still very reasonably priced compared to other toll facilities in the U.S.

Toll rates for 5-axle CVs (represented by weight class 6 for the Pennsylvania Turnpike Mainline) are equivalent to 49 cents per mile for E-ZPass and 98 cents per mile for video transactions for a through-trip on the Pennsylvania Turnpike Mainline. It should be remembered that the vast majority of both PC and CV trips are made using the more cost-effective E-ZPass payment method.





COMPARISON OF 2021 PASSENGER CAR PER-MILE THROUGH TRIP TOLL RATES (DATA SORTED BY ETC TOLL RATES)





COMPARISON OF 2021 FIVE-AXLE VEHICLE PER-MILE THROUGH TRIP TOLL RATES (DATA SORTED BY ETC TOLL RATES)



Annual Transaction and Gross Toll Revenue Trends

Table 2 provides a summary of annual systemwide transactions and gross toll revenue trends from FY 1994-95 through FY 2019-20. Notably, this table excludes non-revenue transactions from PTC's non-AET facilities. The Pennsylvania Turnpike System is a large, mature system that has demonstrated long-term growth in transactions and toll revenue. Between FY 1999-2000 and FY 2009-10 there were three toll rate increases (2004, 2009, 2010) and Turnpike transactions and gross toll revenue grew by an average annual rate of 1.5 percent and 6.9 percent, respectively. Conversely, in the 10 years from FY 2009-10 to FY 2019-20 there were toll rate increases every year. During this period Turnpike transactions fell by 0.3 percent annually, while Turnpike revenue grew by 6.0 percent annually. The slight 0.3 percent transaction decline during this period is attributable to the significant transaction decline in FY 2019-20 when total transactions declined by 10.6 percent. This decline is attributed to the COVID-19 pandemic, which began affecting traffic and revenue in March 2020.



Table 2 Annual Systemwide Traffic and Gross Toll Revenue Trends Pennsylvania Turnpike System (in thousands)

			Tran	sactions					Gross Toll	Revenue		
		Percent		Percent		Percent		Percent		Percent		Percent
Fiscal		Change over		Change over		Change over		Change over		Change over		Change over
Year (1)	Cars	Prior Year	Trucks	Prior Year	Total	Prior Year	Cars	Prior Year	Trucks	Prior Year	Total	Prior Year
1994-95	114,033	6.9	15,620	9.5	129,653	7.2	\$165,850	4.9	\$131,749	7.2	\$297,599	5.9
1995-96	121,911	6.9	16,719	7.0	138,630	6.9	172,339	3.9	136,269	3.4	308,608	3.7
1996-97	126,654	3.9	17,479	4.5	144,133	4.0	179,303	4.0	140,837	3.4	320,140	3.7
1997-98	132,472	4.6	18,627	6.6	151,099	4.8	186,290	3.9	149,036	5.8	335,326	4.7
1998-99	136,399	3.0	19,833	6.5	156,232	3.4	191,804	3.0	158,761	6.5	350,565	4.5
1999-00	138,762	1.7	21,341	7.6	160,103	2.5	195,301	1.8	172,035	8.4	367,336	4.8
2000-01	141,033	1.6	21,278	(0.3)	162,311	1.4	193,563	(0.9)	172,337	0.2	365,900	(0.4)
2001-02	150,496	6.7	22,298	4.8	172,794	6.5	212,650	9.9	163,101	(5.4)	375,751	2.7
2002-03	156,220	3.8	23,179	4.0	179,399	3.8	219,201	3.1	168,021	3.0	387,222	3.1
2003-04	163,612	4.7	24,407	5.3	188,019	4.8	228,515	4.2	180,229	7.3	408,744	5.6
2004-05	163,316	(0.2)	25,109	2.9	188,425	0.2	309,032	35.2	236,126	31.0	545,158	33.4
2005-06	160,590	(1.7)	25,311	0.8	185,901	(1.3)	321,268	4.0	267,369	13.2	588,637	8.0
2006-07	160,107	(0.3)	25,316	0.0	185,423	(0.3)	322,781	0.5	269,861	0.9	592,642	0.7
2007-08	164,097	2.5	25,455	0.5	189,552	2.2	327,761	1.5	271,165	0.5	598,926	1.1
2008-09	162,638	(0.9)	23,583	(7.4)	186,220	(1.8)	356,345	8.7	259,259	(4.4)	615,605	2.8
2009-10	163,599	0.6	22,933	(2.8)	186,531	0.2	415,981	16.7	302,057	16.5	718,038	16.6
2010-11	165,231	1.0	23,812	3.8	189,043	1.3	435,752	4.8	328,105	8.6	763,856	6.4
2011-12	164,955	(0.2)	24,125	1.3	189,080	0.0	455,133	4.4	342,646	4.4	797,779	4.4
2012-13	163,690	(0.8)	24,207	0.3	187,897	(0.6)	471,514	3.6	350,226	2.2	821,740	3.0
2013-14	163,788	0.1	24,891	2.8	188,679	0.4	497,671	5.5	368,395	5.2	866,066	5.4
2014-15	166,192	1.5	26,144	5.0	192,336	1.9	533,054	7.1	401,197	8.9	934,251	7.9
2015-16 (2)	171,569	3.2	27,319	4.5	198,887	3.4	588,295	10.4	443,325	10.5	1,031,620	10.4
2016-17 (3,4)	172,799	0.7	27,703	1.4	200,501	0.8	638,787	8.6	476,188	7.4	1,114,975	8.1
2017-18 (5)	172,512	(0.2)	28,650	3.4	201,162	0.3	678,741	6.3	524,418	10.1	1,203,158	7.9
2018-19 (6,7)	173,429	0.5	29,625	3.4	203,054	0.9	740,578	9.1	594,808	13.4	1,335,385	11.0
2019-20 (8,9)	152,301	(12.2)	29,269	(1.2)	181,570	(10.6)	683,918	(7.7)	605,642	1.8	1,289,561	(3.4)

-			Average Anni	ual Percent Change		
_		Transactions			Gross Toll Revenue	
Fiscal Year	Cars	Trucks	Total	Cars	Trucks	Total
		<u> </u>	<u></u>		' <u></u>	
FY 1999-2000 - FY 2009-10	1.7	0.7	1.5	7.9	5.8	6.9
FY 2009-10 - FY 2019-20	(0.7)	2.5	(0.3)	5.1	7.2	6.0
FY 1994-95 - FY 2019-20	1.2	2.5	1.4	5.8	6.3	6.0

⁽¹⁾ Fiscal year beginning June 1.

Note: Refer to Table 1 for toll rate increase information.

⁽²⁾ The Delaware River Bridge toll plaza was converted from part of the Ticket System to a one-way barrier AET facility in January 2016.

⁽³⁾ The Delaware River Bridge was closed due to structural integrity concerns from January 20, 2017 to March 9, 2017.

⁽⁴⁾ AET conversion was implemented on Turnpike I-376 Beaver Valley Expressway in May 2017.

⁽⁵⁾ AET conversion and vehicle classification changes were implemented on the Northeast Extension Barrier Facilities in April 2018.

⁽⁶⁾ Toll by Plate surcharge for I-376 Beaver Valley Expressway was increased in October 2019.

⁽⁷⁾ AET conversion was implemented at Gateway Toll Plaza and Turnpike 66 in October 2019.

⁽⁸⁾ AET conversion with no surcharge for Toll by Plate was implemented on the Ticket System on March 16, 2020.

⁽⁹⁾ AET conversion with no surcharge for Toll by Plate was implemented on the Mon/Fayette Expressway on June 16, 2020.



Monthly Transactions and Gross Toll Revenue Trends

Tables 3 through 12 present recent monthly transaction and gross toll revenue trends from FY 2017-18 through March 2021 for all PTC facilities. The information is provided for PCs, CVs, and total vehicles. For comparative purposes, subtotals are provided for June through March for each fiscal year. The facilities are summarized in the following order:

- Table 3 the total Turnpike System (comprised of all the facilities listed below);
- Table 4 the Ticket System (comprised of I-76/I-276 and I-476);
- Table 5 the combined Barrier System (comprised of all facilities listed below);
- Table 6 Turnpike 43 (Mon/Fayette Expressway) (MFE);
- Table 7 Turnpike 66 (Amos K. Hutchinson Bypass) (AKH);
- Table 8 Northeast Extension (I-476) barrier plazas;
- Table 9 Turnpike I-376 (Beaver Valley Expressway) (BVE);
- Table 10 Turnpike I-576 (Southern Beltway Findlay Connector);
- Table 11 Delaware River Bridge (DRB); and
- Table 12 Gateway Toll Plaza.

As shown in Table 3, total systemwide gross toll revenue increased by 11.0 percent in FY 2018-19 and decreased by 3.4 percent in FY 2019-20, the last three months of which were impacted by the COVID-19 pandemic. Year-to-date (June 2020 through March 2021) toll revenue has declined by 12.3 percent compared to the same period in the prior year. CV toll revenue increased by 2.4 percent and PC toll revenue decreased by 24.2 percent from June 2020 through March 2021 compared to the same time period in the prior year. In this year-to-date comparison, nine of the 10 months in the current fiscal year are being compared to a period prior to the COVID-19 pandemic (June 2019 through February 2020), resulting in significant negative impacts to both toll transactions and toll revenue.

It is important to note, however, that the negative impacts of COVID-19 have diminished greatly over time. In April 2020 (which includes the first full month of COVID-19 impacts), total gross toll revenue was 49.2 percent lower than the same month in 2019. That negative impact decreased over each of the next six months, such that October 2020 gross toll revenue was only 9.8 percent lower than the same month in the prior year. While negative revenue impacts grew over the winter months, due to both increasing infection rates (in November, December, and January) and



snowstorms (February), March 2021 experienced positive revenue growth for the first time since the start of the pandemic. During this month both PC and CV traffic increased significantly compared to March 2020. As a result, total gross toll revenue was 32.0 higher in March 2021 than it was in March 2020. This large positive result in March 2021 is because this is the first month when growth is compared to a prior year's month that also included COVID-19 impacts.

As shown in Table 3, PCs have been affected far more greatly by COVID-19 than have CVs. Thus far in FY 2020-21, PC gross toll revenue has declined 24.2 percent while CV gross toll revenue has grown by 2.4 percent.

As previously mentioned, the Ticket System is by far the largest component of both traffic and toll revenue on the Turnpike System. As such, its overall growth patterns generally resemble those for the total system. As shown in Table 4, for the FY 2020-21 year-to-date period, total transactions decreased 16.5 percent compared to the same period in the prior year (toll revenue decreased by 13.5 percent). PC transactions decreased by 20.9 percent (with toll revenue falling 26.5 percent) during this period, while CV activity has increased by 8.0 percent (with toll revenue increasing 1.8 percent) compared to the same ten-month period in FY 2019-20.

Prior to the impacts of COVID-19 beginning in March 2020, Ticket System toll transaction growth generally had been slightly negative for PCs and slightly positive for CVs over the period shown in Table 4. Annual toll rate increases, however, resulted in significant revenue increases over this time for the Ticket System. In FY 2018-19, while total transactions decreased by 0.5 percent compared to the previous year, toll revenue increased by 10.4 percent (8.1 percent for PCs and 13.3 percent for CVs). This same general trend continued into FY 2019-20 until March 2020 when the impacts of COVID-19 become evident. As with the total systemwide trends shown in Table 3, the negative impacts of COVID-19 are greatest on the Ticket System in April 2020 with total transactions decreasing by 60.5 percent and toll revenue down by 50.3 percent. By October 2020, however, the negative impacts were just 14.5 percent for transactions and 11.6 percent for toll revenue. Impacts grew more negative over the winter before rebounding in March, which experienced significant positive growth in both transactions and revenue for both PCs and CVs. Throughout the pandemic, negative impacts have been more pronounced for PCs than for CVs.

Table 5 provides the same information for all barrier toll facilities combined. Barrier facility toll revenue contributes about 15 percent of total systemwide toll revenue. The negative impacts of COVID-19 on the barrier facilities are similar to those on the Ticket System. However, the recovery rate seems to be somewhat faster for the barrier facilities. For the latest ten-month period shown for FY 2020-21, total barrier facility toll transactions are down by 13.6 percent compared to 16.5 percent for the Ticket System. Over the same period, total barrier facility toll revenue is down only 4.8 percent compared to 13.5 percent for the Ticket System. The same information is provided for each individual barrier facility in Tables 6 through 12.



Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Total Turnpike System - Monthly Transaction and Revenue Trends Table 3

									٦	oll Transa	ctions	Toll Transactions (in 1,000s)	_								
٠			Pas	Passenger	Cars					Comme	rcial V	Commercial Vehicles					Tota	Total Vehicles	es		
Month	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 9	% Chg	2020-21
June	15,438	(0.5)	15,361	(1.1)	15,187	(30.1)	10,616	2,575	0.9	2,596	(1.5)	2,557	7.0	2,735	18,013	(0.3)	17,958	(1.2)	17,744	(24.8)	13,351
yluly	15,522		15,566	0.1	15,583	(21.1)	12,292	2,419	6.3	2,573	3.7	2,668	5.2	2,806	17,942	1.1	18,138	9.0	18,251	(17.3)	15,098
August	15,957	1.1	16,134	(0.4)	16,071	(20.2)	12,824	2,662	3.5	2,755	(1.2)	2,722	1.5	2,764	18,619	1.5	18,889	(0.5)	18,793	(17.1)	15,587
September	14,724		14,503	0.5	14,582	(16.0)	12,248	2,431	(0.5)	2,418	5.0	2,539	9.5	2,773	17,156	(1.4)	16,921	1.2	17,121	(12.3)	15,021
October	15,221		15,396	(0.0)	15,389	(17.1)	12,758	2,547	7.3	2,732	1.4	2,770	3.1	2,856	17,768	2.0	18,128	0.2	18,159	(14.0)	15,615
November	14,317		14,242	(0.3)	14,193	(24.0)	10,783	2,323	3.0	2,391	0.5	2,403	5.4	2,533	16,640	(0.0)	16,633	(0.2)	16,597	(19.8)	13,317
December	13,746		13,982	(0.5)	13,911	(28.1)	866′6	2,146	2.5	2,198	3.3	2,271	10.8	2,516	15,891	1.8	16,180	0.0	16,182	(22.7)	12,514
January	12,542		12,504	5.6	12,826	(22.1)	9,987	2,175	4.3	2,268	3.7	2,353	3.1	2,426	14,718	0.4	14,772	2.8	15,179	(18.2)	12,413
February	11,958	(0.2)	11,930	4.4	12,459	(29.2)	8,826	2,034	1.9	2,073	5.2	2,182	0.3	2,188	13,992	0.1	14,003	4.5	14,640	(24.8)	11,015
March	13,591				9,463	25.0	11,834	2,295	3.4	2,372	1.6	2,410	17.5	2,832	15,886	3.2	16,389	(27.6)	11,873	23.5	14,666
April	14,259	1.2	14,426	(66.4)	4,845			2,387	8.9	2,549	(20.7)	2,021			16,646	2.0	16,975	(29.5)	998'9		
May	15,237	6.0	15,367		7,791			2,657	1.6	2,698	(12.1)	2,372			17,893	1.0	18,065	(43.7)	10,164		
Total Year	172,512	0.5	173,429		152,301			28,650	3.4	29,622	(1.2)	29,269			201,162	0.9	203,054	(10.6)	181,570		
Jun-Mar	143,016	0.4	143,636 (2.8)	(2.8)	139,665	(19.7)	112,167	23,606	3.3	24,377	2.0	24,875	6.2	26,429	166,623	0.8	168,014	(2.1)	164,539	(15.8)	138,597
										T		2000									

									Toll Revenue (in \$1,000s)	ne (in	\$1,000s)									
		Pas	senger C	Cars					Commercial Vehicles	rcial Ve	hicles					Total	Total Vehicles	es		
Month	% Chg	2018-19	%Chg	2019-20	% Chg 2	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 %	% Chg	2020-21
June	, 6.5	\$61,877 6.5 \$65,886 8.9	8.9	\$71,743	(38.6)	\$44,023	\$44,643	11.5	\$49,757	5.4	\$52,463	(0.0)	\$52,165	\$106,521	8.6	\$115,643	7.4	\$124,206 (;	(22.6)	\$96,188
July	5.3	69,178	8.6	75,990 (3	31.2)	52,311	41,947	17.0	49,069	10.8	54,375	(3.1)	52,693	107,669	8.6	118,247	10.2	130,365 (:	(19.5)	105,004
August	9.2	70,545	9.6	77,351	25.6)	57,533	46,210	13.3	52,369	5.9	55,447	(3.5)	53,492	110,821	10.9	122,914	8.0	132,798 (:	16.4)	111,025
September	9.9	60,348	8.0	65,184 (21.8)	51,000	42,371	11.7	47,311	8.5	51,328	1.3	52,003	98,991	8.8	107,658	8.2	116,512 (:	(11.6)	103,003
October	9.9	61,611	9.7	67,615	18.3)	55,274	44,599	17.0	52, 185	0.9	55,318	0.5	22,607	102,405	11.1	113,795	8.0	122,933	(8.6)	110,881
November	7.3	59,156	8.3	64,068	31.2)	44,052	40,944	15.0	47,087	2.5	48,255	1.6	49,006	96,066	10.6	106,243	5.7	112,323 (:	(17.2)	93,058
December	9.6	57,377	10.8	63,565	(33.3)	42,380	39,000	11.9	43,630	8.3	47,235	8.1	51,038	91,344	10.6	101,007	9.7	110,800 (:	(15.7)	93,418
January	0.6	50,969	11.5	56,826	(21.9)	44,355	42,222	14.3	48,261	8.1	52,171	(0.5)	51,885	88,964	11.5	99,230	8.6	108,997	(11.7)	96,240
February	11.8	49,844	11.1	55,386	(31.7)	37,832	40,130	12.4	45,096	8.9	49,120	(2.0)	48,147	84,707	12.1	94,940	10.1	104,507 (:	17.7)	85,979
March	, 14.3	61,426	(38.8)	37,574	41.0	52,982	45,627	13.4	51,729	(5.4)	48,928	25.1	61,207	99,364	13.9	113,155	(33.6)	86,502	32.0	114,189
April	11.8	63,940	(73.2)	17,157			46,057	14.6	52,793	(20.2)	42,127			103,259	13.0	116,733	(49.2)	59,283		
May	12.7	70,298	(55.2)	31,458			50,666	9.6	55,522	(12.0)	48,876			113,047	11.3	125,820	(36.2)	80,335		
Total Year	9.1	\$740,578	(7.7)	\$683,918			\$524,418	13.4	\$594,808	1.8	\$605,642			\$1,203,158	11.0	\$1,335,385	(3.4)	\$1,289,561		
Jun-Mar	3 8.4	606,340	4.8	635,303 (2,	24.2)	\$481,742	427,694	13.7	486,493	5.8	514,639	2.4	\$527,243	986,852	10.7	1,092,833	5.2	1,149,943 (:	12.3) \$	1,008,986

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in exaggerated traffic and toll revenue impacts in February 2020 compared to February 2019.
(3) The Delaware River Bridge was closed due to structural integrity concerns from January 20, 2017 to March 9, 2017.

(4) In response to the COVD-19 pandemic, schools were closed statewide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. As tate-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.

(5) AET conversion was implemented on Turnpike 1-376 Beaver Valley Expressivally in May 2017.

(6) AET conversion and vehicle classification changes were implemented on the Northeast Extension Barrier facilities in April 2018.

(7) AET conversion and vehicle classification changes were implemented on the Turnpike 66 Amos K. Hutchinson Byass and Gateway Toll Plaza in October 2019.

(8) AET conversion was implemented on Turnpike 66 Amos K. Hutchinson Byass and Gateway Toll Plaza in October 2019.



Ticket System - Monthly Transaction and Revenue Trends Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included

			ć		į				ř	oll Transactions (in 1,000s	ransactions (in 1,0	n 1,000s)					ŀ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	1	10.00	Yas Yas		ars	10.70			100	Commer	cial ven	9	1	**	1	100	lotal	venicie	000		,,
Month	2017-18	*	2018-19	8	02-6102		2020-21	2017-18	gu d		П	Ι.	guo «	2020-21	2017-18	% Cng		П		П	2020-21
June	11,695		11,580	_	11,195		1,621	1,938	0.0	1,939	(7.7)	1,88/	8.3	2,043	13,633	(0.8)	13,519	(3.7)	_	(797)	9,664
yluly	11,654	t (0.5)	11,596	_	11,365		8,884	1,817	5.4	1,915	2.7	1,967	6.5	2,095	13,471	0.3	13,512	(1.3)	_	(17.6)	10,979
August	12,015		12,019	_	11,786	(21.1)	9,305	1,995	2.3	2,040	(1.7)	2,006	3.3	2,072	14,009	0.4	14,059	(1.9)	13,792 (1	(17.5)	11,377
September	11,110	(2.5)	10,836	_	10,768	(17.5)	8,879	1,823	(1.8)	1,790	4.3	1,867	10.7	2,067	12,933	(2.4)	12,626	0.1	12,635 (1	(13.4)	10,947
October	11,547	_	11,483	(0.8)	11,387	(18.1)	9,326	1,913	2.8	2,024	0.4	2,031	5.4	2,141	13,459	0.4	13,506	(0.7)	13,418 (1	(14.5)	11,467
November	10,905	(2.6)	10,625	_	10,574	(25.0)	7,926	1,754	1.7	1,784	(0.8)	1,770	8.3	1,917	12,659	(2.0)	12,409	(0.5)	12,343 (2	(20.3)	9,843
December	10,464		10,463	3 (1.1)	10,347	(28.8)	7,364	1,638	8.0	1,650	2.2	1,686	13.6	1,916	12,102	0.1	12,113	(0.7)		(52.9)	9,280
January	9,655	(2.1)	9,453		9,623	(23.2)	7,390	1,658	2.5	1,699	2.7	1,745	5.3	1,837	11,313	(1.4)	11,152	1.9	11,368 (1	(18.8)	9,227
February	9,152	(2.4)	8,931		9,358	(31.2)	6,440	1,539	0.5	1,547	4.5	1,616	1.5	1,640	10,691	(2.0)	10,478	4.7	10,974 (2	(26.4)	8,080
March	10,288	3 1.8	10,475	(32.9)	7,032	23.4	8,680	1,732	1.7	1,762	2.8	1,811	18.0	2,137	12,020	1.8	12,237	(27.7)	8,843 2	22.3	10,817
April	10,836	(1.0)	10,728	(67.7)	3,463			1,795	4.7	1,880	(19.5)	1,513			12,631	(0.5)	12,608	(60.5)	4,977		
Мау	11,485	(1.0)	11,371		5,583			1,981	0.5	1,990	(11.0)	1,770			13,465	(0.8)	13,361	(42.0)	7,354		
Total Year	130,805	(1.0)	129,559	(13.2)	112,482			21,582	5.0	22,020	(1.6)	21,670			152,387	(0.5)	151,579	(11.5)	134,151		
Jun-Mar	108,485	(0.9)	107,460		103,435	(20.9)	81,814	17,806	1.9	18,150	1.3	18,386	8.0	19,866	126,290	(0.5)	125,610	(3.0)	121,821 (1	(16.5)	101,680
									_	Foll Revenue (in \$1,000s)	ue (in \$	1,000s)									
			Pas	Passenger Cars	ars					Commer	Commercial Vehicles	icles					Total	Fotal Vehicles	s		
Month	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19 9	%Chg 2	2019-20 9	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 %	%Chg 20:	2020-21
June	\$52,913	8 6.5	\$56,349	9.7.6	\$60,635	(41.8)	\$35,319	\$39,308	11.7	\$43,898	5.1	\$46,135	(2.0)	\$45,213	\$92,221	8.7	\$100,247	6.5	\$106,770 (2	(24.6)	\$80,532
July	56,299	9 5.0	59,123		64,149	(33.4)	42,697	36,939	17.2	43,294	10.4	47,784	(4.3)	45,733	93,238	8.6	102,417	9.3	111,932 (2	(21.0)	88,430
August	55,199	9.1	60,200	8.8	65,501	(28.3)	46,956	40,669	13.5	46,144	5.5	48,699	(4.5)	46,518	95,868	10.9	106,344	7.4	114,200 (1	(18.1)	93,474
September	48,195		51,234	_	54,814	(24.3)	41,486	37,290	12.0	41,775	7.7	45,003	0.1	45,044	85,485	8.8	93,009	7.3	99,817 (1	(13.3)	86,530
October	49,321		51,943		22,006		44,868	39, 232	17.0	45,892	5.4	48,375	(0.3)	48,241	88,553	10.5	97,835	7.7		(11.6)	93,109
November	47,189	5.8	49,943	3 7.6	53,745	(32.5)	36,264	35,991	15.4	41,520	1.1	41,992	1.6	42,655	83,181	10.0	91,463	4.7	95,737 (1	(17.6)	78,919
December	44,599	8.3	48,312	П	53,142	(35.4)	34,329	34,402	11.8	38,457	7.1	41,206	8.0	44,492	79,001	8.6	86,769	8.7	94,348 (1	(16.5)	78,821
January	39,895	7.4	42,828		47,167	(23.0)	36,314	37,423	13.8	42,586	7.4	45,721	(1.1)	45,231	77,318	10.5	85,414	8.8	92,888 (1	(12.2)	81,545
February	38,015	5 10.1	41,868		46,274	(33.2)	30,899	35,551	12.0	39,811	8.3	43,112	(2.3)	42,135	73,566	11.0	81,679	9.4	89,386 (1	(18.3)	73,034
March	45,839	9 12.8	51,714	(40.2)	30,904	39.5	43,127	40,462	12.9	45,684	(6.7)	42,610	25.4	53,427	86,301	12.9	97,398	(24.5)	73,515	31.3	96,553
April	48,924	1 10.1	53,860		13,360			40,759	13.9	46,431	(21.4)	36,517			89,683	11.8	100,291	(20.3)	49,878		
Мау	53,304	11.3	59,310		25,131			44,726	9.1	48,818	(12.8)	42,565			98,030	10.3	108,128	(37.4)	969'29		
Total Year	\$579,692	8.1	\$626,685		\$571,829			\$462,754	13.3	\$524,309	1.0	\$529,718			\$1,042,446	10.4	\$1,150,994	(4.3)	\$1,101,547		
Jun-Mar	477,465	3 7.6	513,514	3.9	533,337	(592)	\$392,259	377, 268	13.7	429,060	2.0	450,636	1.8	\$458,689	854,732	10.3	942,575	4.4	983,973 (1	(13.5) \$8	\$850,947
	1																				

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.
(2) Leap year occurred in 2020, resulting in easggerated traffic and foll revenue impacts in February 2020 compared to February 2019.
(3) The Debayser Relived By Express and the contents from January 20, 2017 to March 9, 2017.
(4) In response to the COVD-19 pardedmic, schools were closed state-wide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.
(5) AET conversion occurred in June 2020.



Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Combined Barrier Facilities - Monthly Transaction and Revenue Trends

		Passe	Passe nger Cars	ars			_	Toll Transactions (in 1,000s) Commercial Vehicles	ransactions (in 1,0 Commercial Vehicles	(in 1,000s hicles	(Tota	Total Vehicles		
2017-18	% Chg	2018-19	% Chg	2019-20 % Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 % Chg	2020-21
3,743	1.0	3,782	5.5	3,992 (25.0)	2,996	989	3.3	657	1.9	029	3.3	692	4,379	1.4	4,439	2.0	4,661 (20.9)	3,688
3,869	5.6	3,970	6.3	4,218 (19.2)	3,409	602	9.5	657	6.7	702	1.3	711	4,471	3.5	4,627	6.3	4,920 (16.3)	4,120
3,942	4.4	4,115	4.1	4,286 (17.9)	3,519	299	7.1	715	0.1	716	(3.4)	692	4,610	4.8	4,830	3.5	5,002 (15.8)	4,211
3,614	1.5	3,667	4.0	3,814 (11.7)	3,368	609	3.2	628	6.9	672		705	4,223	1.7	4,295	4.4	4,486 (9.2)	4,074
3,674	6.5	3,913	2.3	4,001 (14.2)	3,433	635	11.6	709	4.3	739		715	4,309	7.3	4,621	5.6	4,740 (12.5)	4,147
3,412	0.9	3,618	0.1	3,620 (21.1)	2,857	995	8.9	209	4.3	634	(2.7)	617	3,981	6.1	4,225	0.7	4,253 (18.3)	3,474
3,282	7.2	3,519	1.3	3,564 (26.1)	2,634	208	7.9	248	6.7	585		009	3,790	7.3	4,068	5.0	4,149 (22.0)	3,235
2,887	5.7	3,051	2.0	3,203 (18.9)	2,597	517	10.0	269	8.9	809		589	3,404	6.3	3,620	5.3	3,811 (16.4)	3,186
2,806	6.9	2,999	3.4	3,101 (23.0)	2,386	495	6.4	276	7.5	266	(3.0)	549	3,301	8.9	3,525	4.0	3,666 (19.9)	2,935
3,303	7.3	3,543	(31.4)	2,431 29.7	3,154	562	8.5	610	(1.9)	298		969	3,865	7.4	4,153	(27.0)	3,030 27.0	3,849
3,423	8.0	3,698	(62.6)	1,382		592	13.1	699	۳	208			4,015	8.8	4,367	(26.7)	1,890	
3,752	6.5	3,996	(44.7)	2,208		929	4.7	708	(14.9)	602			4,428	6.2	4,704	(40.3)	2,810	
41,707	5.2	43,870	(9.2)	39,819		7,068	7.6	7,605		7,599			48,775	5.5	51,475	(7.9)	47,418	
34,532	4.8	36,176	0.1	36,230 (16.2)	30,353	5,801	7.4	6,227	4.2	6,489	1.2	6,564	40,332	5.1	42,404	0.7	42,719 (13.6)	36,917
								Toll Revenue (in \$1,000s)	nue (in	\$1,000s)								
		Passe	Passenger Cars	ars				Comme	Commercial Vehicles	hicles					Total	Total Vehicles		
2017-18	% Chg	2018-19	% Chg	2019-20 % Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 %Chg	2020-21
\$8,964	6.4	\$9,537	16.5	\$11,108 (21.6)	\$8,704	\$5,335	8.6	\$5,859	8.0	\$6,328	6.6	\$6,952	\$14,299	7.7	\$15,396	13.2	\$17,436 (10.2)	\$15,656
9,422	6.7	10,055	17.8	11,841 (18.8)	9,614	5,009	15.3	5,775	14.1	6,591	5.6	6,959	14,431	9.7	15,830	16.4	18,433 (10.1)	16,574
9,413	6.6	10,344	14.6	11,850 (10.7)	10,577	5,541	12.4	6,225	8.4	6,748	3.4	6,974	14,953	10.8	16,570	12.2	18,598 (5.6)	17,552
8,425	8.2	9,114	13.8	10,370 (8.3)	9,514	5,082	8.9	5,535	14.3	6,326	10.0	6,958	13,507	8.5	14,649	14.0		16,472
8,485	13.9	899'6	9.7	10,609 (1.9)	10,406	5,368	17.2	6,293	10.3	6,943	6.1	7,366	13,853	15.2	15,961	10.0		17,772
7,933	16.1	9,214	12.0	10,323 (24.6)	7,788	4,952	12.4	5,567	12.5	6,263	1.4	6,352	12,885	14.7	14,780	12.2	16,586 (14.8)	14,140
7,746	17.0	9,065	15.0	10,423 (22.8)	8,051	4,597	12.5	5,173	16.6	6,029	8.6	6,546	12,343	15.4	14,238	15.6	16,452 (11.3)	14,597
6,847	18.9	8,141	18.6	9,659 (16.8)	8,040	4,799	18.2	5,675	13.7	6,450	3.2	6,655	11,646	18.6	13,816	16.6	16,109 (8.8)	14,695
6,561	21.6	7,976	14.3	9,112 (23.9)	6,934	4,580	15.4	5,285	13.7	600′9	0.0	6,012	11,141	19.0	13,261	14.0	15,121 (14.4)	12,945
7,898	23.0	9,712	(31.3)	6,670 47.8	9,855	5,165	17.0	6,045	4.5	6,317	23.2	7,781	13,063	20.6	15,757	(17.6)	12,987 35.8	17,636
8,277	21.8	10,080	(62.3)	3,796		5,298	20.1	6,362	(11.8)	5,610			13,575	21.1	16,443	(45.8)	9,406	
9,078	21.0	10,988	(42.4)	6,327		5,940	12.9	6,704	(6.5)	6,311			15,017	17.8	17,691	(28.6)	12,638	
\$99,048	15.0	\$113,893	(1.6)	\$112,089		\$61,664	14.3	\$70,498	7.7	\$75,925	,		\$160,712	14.7	\$184,392	5.0	\$188,014	
81,694	13.6	92,825	8.6	101,966 (12.2)	\$89,483	50,426	13.9	57,432	11.4	64,004	7.1	\$68,555	132,120	13.7	150,258	10.5	165,970 (4.8)	\$158,038

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.
(2) Leap year occurred in 2020, resulting in exaggerated traffic and toll revenue impacts in February 2020 compared to February 2019.
(3) The Delaware River Bridge was closed due to structural integrity concerns from January 20, 2017 to March 9, 2017.

(4) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at home orders for some counties began to take effect on March 13, 2020. A state-wide son year closed state-wide on March 16, 2020 and stay and home 5, 2020.



Turnpike 43 - Mon/Fayette Expressway - Monthly Transaction and Revenue Trends Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included

									Ĭ	Oll Transactions (in 1,000s)	ctions (3000,r ui	_								
			Pass	Passenger Cars	ars					Comme	Commercial Vehicles	hicles					Tota	Total Vehicles	es		
Month	2017-18	% Chg	%Chg 2018-19 %Chg	%Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	%Chg	2019-20	% Chg	2020-21
June	1,072	0.7	1,079 (1.6)	(1.6)	1,061	(11.0)	944	46	(0.1)	46	0.0	16	8.0	86	1,169	9.0	1,176	(1.5)	1,158	(10.0)	1,042
July	1,068	4.7	1,118	(1.6)	1,099	(4.9)	1,045	94	6.2	66	9.7	109	(8.9)	66	1,161	4.8	1,217	(0.7)	1,208	(2.3)	1,144
August	1,116	3.0	1,149	(5.9)	1,116	(9.9)	1,042	107	(2.6)	101	0.1	102	(12.5)	88	1,223	2.3	1,251	(2.7)	1,217	(7.1)	1,131
September	1,076	0.4	1,080	(1.2)	1,067	(2.7)	1,039	97	(2.5)	95	4.0	66	(8.1)	91	1,173	0.2	1,175	(0.8)	1,166	(3.1)	1,129
October	1,116	4.1	1,162	(3.5)	1,121		1,060	103	5.6	108	4.0	113	(17.8)	93	1,219	4.2	1,270	(5.9)	1,233	(6.5)	1,152
November	086	4.8	1,027	(2.6)	970	_	869	86	5.9	91	(4.3)	87	(15.2)	74	1,066	4.9	1,118	(2.5)	1,057	(10.8)	943
December	952	1.6	296	(2.0)	948	_	810	71	4.6	75	(4.8)	71	8.0	72	1,023	1.8	1,042	(2.2)	1,019	(13.5)	882
January	876	0.4	880	1.3	891	(6.6)	803	71	10.1	78	(3.8)	75	(6.4)	20	947	1.1	957	6.0	996	(9.6)	873
February	870	1.5	884	(1.7)	898	(12.1)	763	71	6.0	72	(6.5)	29	(3.0)	92	942	1.5	926	(2.1)	936	(11.5)	828
March	995	2.0	1,015	(30.4)	706	37.5	971	78	11.4	87	(18.7)	71	20.2	82	1,073	2.7	1,102	(29.5)	777	36.0	1,056
April	1,026	2.7	1,053	(57.2)	451			88	13.1	66	(37.5)	62			1,113	3.5	1,152	(55.5)	513		
May	1,098	1.3	1,111	(39.6)	671			106	(5.0)	104	(22.6)	81			1,204	1.0	1,215	(38.2)	751		
Total Year	12,244	2.3	12,524	(12.4)	10,970	l l		1,070	3.5	1,107	(6.7)	1,033			13,313	2.4	13,631	(11.9)	12,003		
Jun-Mar	10,120	2.4	10,360	(4.9)	9,848	(5.1)	9,346	876	3.2	904	(1.5)	890	(6.2)	835	10,996	2.4	11,264	(4.7)	10,738	(5.2)	10,182
									•	Toll Bound in \$4 000s)	di) our	(2000)									

Cars 2019-20 \$1,904 1,974 1,974 1,901 1,062 1,680 1,680 1,689 1,689 1,183 1,324 873 873 873 873			Commercial Vehicles				14-1	Tatel Mahinton		
2017-18 % ChB 2018-13 % ChB 2019-20 \$1,639 6.8 \$1,772 7.5 \$1,904 1,671 12.4 1,877 6.5 \$2,000 1,621 12.6 1,904 3.7 1,901 1,722 10.6 1,969 7.4 1,901 1,731 10.9 1,684 4.5 1,901 1,446 1.2 1,684 0.9 1,700 1,399 10.2 1,542 9.7 1,692 1,403 10.4 1,542 9.7 1,692 1,403 10.4 1,548 5.9 1,692 1,403 10.4 1,548 5.9 1,692 1,403 10.4 1,548 5.9 1,692 1,703 1.1 1,862 1,324 1,324 1,704 1,1 1,862 1,324 1,324 1,703 1.1 1,862 1,324 1,324 1,704 1,2				IICIES			Otal	venicies		
\$1,659 68 \$1,772 7.5 1,671 12.4 1,877 6.5 1,722 10.6 1,904 3.7 1,622 7.8 1,769 7.4 1,711 10.9 1,898 4.5 1,496 12.6 1,684 0.9 1,496 12.4 1,625 3.4 1,399 10.2 1,542 9.7 1,403 10.4 1,548 5.9 1,602 11.9 1,792 (26.1) 1,672 11.4 1,862 (33.1) 1,788 10.4 1,986 (31.1) 2,192 10.6 \$21,261 (5.8) \$2	0 %Chg 2020-21	2017-18 %Chg	2018-19 %Chg	2019-20 % Chg 20:	2020-21	2017-18 % Chg	2018-19 9	%Chg 20:	2019-20 %	% Chg 2020-21
1,671 12.4 1,877 6.5 1,722 10.6 1,904 3.7 1,642 7.8 1,769 7.4 1,711 10.9 1,898 4.5 1,496 12.6 1,684 0.9 1,446 12.4 1,625 3.4 1,339 10.2 1,542 9.7 1,403 10.4 1,548 5.9 1,602 11.9 1,792 (2.1) 1,672 11.4 1,862 (3.1) 1,798 10.4 1,986 (3.19) 2,192 10.6 \$21,261 (5.8) \$	904 (16.3) \$1,594	\$426 8.5	\$462 8.3	\$500 (3.6)	\$482	\$2,085 7.1	\$2,234	7.6	\$2,404 (1	(13.6) \$2,0
1,722 10.6 1,904 3.7 1,642 7.8 1,769 7.4 1,711 10.9 1,898 4.5 1,496 12.6 1,894 0.9 1,446 12.4 1,625 3.4 1,399 10.2 1,542 9.7 1,403 10.4 1,542 9.7 1,672 11.4 1,862 (31.9) 1,798 10.4 1,986 (31.9) 1,798 10.4 1,986 (31.9) 2,122 10.6 \$21,261 (5.8) \$	(12.1)	400 17.8	471 18.0	556 (16.0)	467	2,071 13.4	2,349	8.8	2,556 (1	(13.0) 2,2
1,642 7.8 1,769 7.4 1,711 10.9 1,898 4.5 1,496 12.6 1,684 0.9 1,499 10.2 1,542 9.7 1,403 10.4 1,542 9.7 1,602 11.9 1,758 5.9 1,602 11.4 1,862 (31.9) 1,798 10.4 1,986 (31.9) 2,122 10.6 \$21,261 (5.8) \$	974 (8.1) 1,813	457 4.6	478 8.9	520 (16.1)	436	2,179 9.3	2,382	4.7	2,494 ((9.8) 2,250
1,711 10.9 1,898 4.5 1,496 12.6 1,684 0.9 1,446 12.4 1,629 10.2 1,542 9.7 1,403 10.4 1,548 5.9 1,602 11.9 1,792 (26.1) 1,792 11.67 11.88 10.4 1,886 (33.1) 1,788 10.4 1,886 (33.1) 1,782 10.6 \$51,201 (5.8) \$\$	(9.6)	418 6.9	447 9.8	491 (11.2)	436	2,060 7.6	2,216	7.9	2,392 (1	
1,496 12.6 1,684 0.9 1,446 12.4 1,625 3.4 1,399 10.2 1,542 9.7 1,403 10.4 1,548 5.9 1,602 11.9 1,792 (5.1) 1,672 11.4 1,862 (3.1) 1,798 10.4 1,986 (3.19) 519,222 10.6 \$21,261 (5.8) \$	(2.3)	437 16.3	508 9.3	556 (15.3)	471	2,148 12.0	2,406	5.5	2,538	(5.2) 2,4
1,446 12.4 1,625 3.4 1,339 10.2 1,542 9.7 1,403 10.4 1,548 5.9 1,672 11.4 1,862 (3.1) 1,798 10.4 1,986 (31.9) 2,222 10.6 521,261 (5.8) \$	(16.9)	373 16.0	432 3.3	446 (19.0)	361	1,869 13.3	2,116	1.4	2,147 (1	
1,399 10.2 1,542 9.7 1,403 10.4 1,548 5.9 1,502 11.9 1,792 (26.1) 1,798 10.4 1,986 (31.9) 2,122 10.6 5,21,261 (5.8) \$	(11.5)	316 18.3	374 0.8	377 (5.0)	358	1,762 13.5	1,999	5.9	2,056 (1	
1,403 10.4 1,548 5.9 1,602 11.9 1,792 (26.1) 1,792 (3.3.1) 1,788 10.4 1,886 (3.3.1) 2,122 10.6 \$51,261 (5.8) \$	(6.5)	331 22.1	404 5.7	427 (11.5)	377	1,730 12.5	1,946	8.9	2,119	(7.5) 1,960
1,602 11.9 1,792 (26.1) 1,672 11.4 1,862 (53.1) 1,798 10.4 1,986 (31.9) 519,222 10.6 \$21,261 (5.8) \$	639 (11.4) 1,452	343 10.4	378 2.8	389 (12.6)	340	1,746 10.4	1,926	5.3	2,028 (1	11.7) 1,791
1,672 11.4 1,862 (53.1) 1,798 10.4 1,986 (31.9) 519,222 10.6 \$21,261 (5.8) \$	53.2	380 21.5	462 (14.3)	396 18.9	471	1,982 13.7	2,254	(23.7)	1,720 4	45.3 2,4
1,798 10.4 1,986 (31.9) \$19,222 10.6 \$21,261 (5.8) \$	873	421 22.1	513 (29.3)	363		2,093 13.5	2,376	(48.0)	1,236	
\$19,222 10.6 \$21,261 (5.8) \$	352	499 8.7	543 (16.5)	453		2,298 10.1	2,529	(28.6)	1,805	
	022	\$4,800 14.0	\$5,472 0.0	\$5,473		\$24,021 11.3	\$26,732	(4.6)	\$25,496	
15,751 10.5	796 (5.7) \$16,781	3,880 13.8	4,416 5.5	4,658 (9.8)	\$4,200	19,631 11.2	21,828	5.9	22,454 ((6.6) \$20,980

(1) Toll Increases occur every year with exceptions. Refer to Table 1 for details.
(2) Leap year occurred in 2020, resulting in exaggerance traffic and toll revenue impacts in February 2020 compared to February 2019.
(3) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.
(4) AET conversion occurred in June 2020.



Turnpike 66 - Amos K. Hutchinson Bypass - Monthly Transaction and Revenue Trends Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Table 7

			Pas	Passenger	r Cars				ř	II Transa Comme	ransactions (in 1,0 Commercial Vehicles	Toll Transactions (in 1,000s) Commercial Vehicles	_				Tota	Total Vehicles	v		
Month	2017-18	% Chg	2018-19	% Chg	3 2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18 %	% Chg	2018-19	%Chg	2019-20	%Chg 2	2020-21
June	292	(1.9)	556			541 (11.5)	() 479	100	1.0	101	(6.1)	95	3.1	26	299	(1.5)	657	(3.2)		(8.3)	277
July	553	1.1	529					94	7.2	101		100		101	647	5.0	099	(0.7)		(5.4)	620
August	578	0.8	583					104	3.6	108	(3.8)	104	(4.2)	100	682	1.2	691	(1.8)		(7.5)	627
September	258	(0.5)	555	(3.2)		538 (4.8)	3) 512	95	(2.5)	92		95		86	653	(0.8)	648	(2.3)	633	(3.6)	610
October	575	1.0	280			581 (9.4)		86	8.1	105		105		66	672	5.0	989	(0.0)	989	(8.8)	625
November	537	(1.2)	531			513 (9.4)		84	2.4	86	(0.6)	82	(1.0)	84	621	(0.7)	617	(5.9)	299	(8.2)	550
December	529		533			517 (14.7)		74	7.8	8	(3.0)	77		78	603	1.6	612	(3.1)		(12.7)	519
January	482	(1.4)	475	5 2.3		486 (12.2)		77	5.7	81		83	(8.0)	9/	228	(0.4)	556	2.2	269	11.6)	503
February	460		461			_	.) 410	71	9.6	75	1.0	76	(2.5)	74	531	8.0	536	1.3	245	10.7)	484
March	533	(1.2)	527			387 33.2		84	(3.3)	81	(4.0)	78	22.2	95	617	(1.5)	809	(23.5)	465	31.4	611
April	536		538			271		06	3.8	93	(26.4)	69			929	8.0	631	(46.1)	340		
May	579	(1.6)	220			396		101	(5.4)	66	(13.4)	98			089	(1.7)	699	(27.9)	482		
Total Year	6,486	(0.3)	6,466	(9.9)	5,827	72		1,071	5.9	1,102	(4.6)	1,051			7,556	0.2	7,568	(9.1)	6,878		
Jun-Mar	5,371	(0.2)	5,359	(3.7	7) 5,159	(6.5)	6) 4,822	879	3.4	910	(1.4)	897	9.0	905	6,250	0.3	6,269	(3.4)	950'9	(5.5)	5,725
									Ī	Toll Revenue (in \$1,000s)	nue (in	\$1,000s)									
			Pas	Passenger	r Cars					Comme	Commercial Vehicles	ehicles					Tota	Total Vehicles	s		
Month	2017-18	% Chg	2018-19	% Chg	3 2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18 %	% Chg	2018-19	%Chg	2019-20 9	%Chg 2	2020-21
June	\$951	4.6	\$995	5.4.8	3 \$1,043	43 (4.8)	\$) \$992	\$452	11.4	\$504	(2.1)	\$493	(0.7)	\$490	\$1,403	8.9	\$1,499	2.5	\$1,536	(3.5)	\$1,482
yluty	938	7.1	1,004	1.6	3 1,080	_	1,027	426	15.9	494	2.9	208	(4.2)	487	1,364	8.6	1,498	6.1	1,588	(4.7)	1,514
August	964	7.4	1,036	9.9	1,104		_	473	9.6	518	2.5	531	(8.3)	487	1,437	8.2	1,554	5.2	1,636	(2.6)	1,544
September	931	6.4	991	3.8	3 1,029	29 (2.1)	_	434	3.1	447	7.4	480	(2.2)	470	1,364	5.4	1,438	4.9	1,509	(2.1)	1,476
October	096	6.5	1,023	3 1.3	3 1,036		1,119	445	16.4	518	(3.7)	499	0.7	203	1,405	9.7	1,541	(0.3)	1,536	9.9	1,622
November	892	4.8	934	12.1	1,047	_		389	6.4	414	6.9	443	(6.8)	413	1,281	5.3	1,349	10.5	1,490	(13.0)	1,297
December	879	7.0	941	7.1	1,008			341	15.0	392	6.0	396	(2.0)	388	1,220	9.3	1,334	5.3	1,404	(6.4)	1,314
January	829	7.1	888	3 8.5			068 (9	373	12.6	420	1.1	425	(4.2)	407	1,202	8.8	1,308	6.1	1,388	(9.9)	1,297
February	804	8.3	871			(7.7)		354	10.9	392	(5.9)	381	2.6	391	1,158	9.1	1,264	1.5	1,283	(4.6)	1,223
March	935	7.4	1,004		_	698 61.7	1,129	414	3.5	429	(12.6)	375	39.3	522	1,350	6.2	1,433	(25.1)	1,073	53.9	1,651
April	946	8.4	1,026		_	515		446	8.9	485	(28.9)	345			1,392	9.8	1,511	(43.1)	860		
May	1,024	6.5	1,090	(25.5)		77		493	3.9	513	(14.9)	437			1,518	5.6	1,603	(22.1)	1,249	l	
Total Year	\$11,054	6.8	\$11,804		3) \$11,237	37		\$5,041	9.7	\$5,528	(3.9)	\$5,314			\$16,095	7.7	\$17,331	(4.5)	\$16,551		
Jun-Mar	9,083	9.9	9,687		3 9,910	10 (0.5)	(98'6\$	4,102	10.4	4,529	0.1	4,532	9.0	\$4,558	13,185	7.8	14,217	1.6	14,442	(0.1)	\$14,421

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in exaggerated traffic and toll revenue impacts in February 2020 compared to February 2019.

(3) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at home orders for some countiles began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.



Northeast Extension Barrier Plazas - Monthly Transaction and Revenue Trends Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Table 8

			Q	Daecondor	Care				Ĕ	oll Transactions (in 1,	ctions	Commercial Vehicles	_				T ct	Total Vahiclas			
Month	2017-18	% Chg	2018-19	%Chg	2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	%Chg	2019-20	% Chg	2020-21	2017-18 % Chg	2018-19	-19 %	%Chg 2	2019-20 %Chg	2020-21	-21
June	420	(0.7)	417		462	2 (45.0)	254	104	3.5	108	5.4	113	(2.8)	110	524 0.1	· г .	525	9.6	575 (36.7)	(364
yluly	494	(1.2)	488		260	0 (40.4)	334	101	9.8	109	12.2	123	(7.0)	114	595 0.5	5.	298	14.3	683 (34.4)	£	448
August	481		230	9.3	280	0 (39.5)	351	107	13.0	121	3.8	126	(12.3)	110	588 10.8	φ.	651	8.3	705 (34.6)	9)	461
September	390	(0.1)	389		423	3 (27.1)	309	96	4.8	100	15.2	116	(1.3)	114	486 0.	6.0	490	10.0	539 (21.6)	9)	423
October	380	4.4	397	10.4	438	8 (29.4)	309	97	14.8	111	7.0	119	(1.3)	117	476 6.	6.5	202	9.7	556 (23.4)	æ	426
November	364	1.0	367		381	1 (36.5)	242	91	0.9	96	3.8	100	(0.2)	66	454 2.	2.0	463	3.6	480 (29.0)	6	341
December	323		331	2.9	340	0 (41.6)	198	83	4.9	87	8.5	94	4.5	86	406 2.	2.8	417	4.0	434 (31.6)	2)	297
January	258		257		282	2 (31.1)	194	88	3.5	91	8.5	66	(6.2)	92	345 0.	0.8	348	9.3	381 (24.7)	2	287
February	256		262	5.9	772	7 (36.3)	177	80	2.0	82	10.4	90	(6.3)	82	337 2.	2.2	344	6.9	368 (28.9)	6	262
March	305		318		208	8 17.5	244	88	6.9	95	3.0	98	10.2	108	394 4.	4.6	412 ((25.9)	306 15.2	~	352
April	338	8.3	366	(76.9)	00	85		91	13.4	103	(18.9)	83			429 9.	9.4	469	(64.1)	168		
May	400	5.1	420		178	∞I		107	6.8	114	(13.6)	66			507 5.	5.4	534 ((48.3)	276		
Total Year	4,409	3.0	4,542		4,213	3		1,132	7.5	1,216	3.4	1,258			5,540 3.	3.9	5,759	(2.0)	5,471		
Jun-Mar	3,671	2.3	3,756	5.2	3,951	1 (33.9)	2,612	934	7.0	1,000	7.7	1,076	(2.6)	1,048	4,605 3.	3.3	4,756	5.7	5,027 (27.2)		3,660
										Toll Revenue (in \$1,000s)	nue (ir	\$1,000s)									
			Pass	Passenger (r Cars					Commercial Vehicles	rcial V	ehicles					Total	Total Vehicles			
Month	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18 % Chg		2018-19 %	%Chg 2	2019-20 %Chg	3 2020-21	-21
June	\$413	9.4	\$452		\$233	3 (35.8)	\$342	\$506	19.7	\$607	11.1	\$674	5.1	\$708	\$920 15.1		\$1,058	14.0	\$1,207 (13.0)	δ.	\$1,050
yluly	200	4.7	524		699	9 (37.0)	422	484	22.9	295	20.5	717	0.3	719	984 13.7	.7	1,119	23.9	1,386 (17.7)		1,141
August	479		283	18.8	693	3 (31.1)	477	516	29.2	999	12.4	749	(2.9)	705	995 25.6	9.	1,250	15.4	1,442 (18.0)		1,183
September	384	13.4	435		200	0 (17.1)	415	462	22.3	999	22.9	695	4.4	726	846 18.3	e.	1,001	19.5	1,195 (4.6)		1,141
October	371	14.1	424	22.4	519	9 (16.2)	435	476	33.7	989	14.9	731	3.4	756	847 25.1	τ.	1,060	17.9	1,250 (4.7)		1,191

\$10,457 (8.6) (11.7) (5.6) (10.6) (13.2) 22.5 1,073 993 1,033 958 908 706 902 \$13,053 11,445 11.2 14.7 17.5 15.2 (7.8) (34.7) (23.9)6.3 965 866 879 831 1,081 1,186 \$12,281 10,014 19.7 18.7 25.7 25.7 30.6 34.3 13.8 21.7 21.7 807 729 699 661 754 805 1,042 \$10,090 8,243 \$6,916 643 658 651 590 760 1.4 9.2 (2.4) (3.1) 16.6 2.8 634 603 667 609 652 588 665 665 \$7,983 10.5 15.1 15.5 15.9 6.6 (9.4) (4.4) 10.5 574 524 578 525 612 649 696 \$7,227 5,882 26.3 25.6 28.3 26.9 34.0 38.7 12.3 26.2 26.9 454 417 450 414 457 468 620 \$5,724 4,636 \$3,541 305 279 272 241 352 (54.9) (30.7) (28.5) (25.5) (30.8) 37.5 440 390 366 349 256 118 237 \$5,070 4,714 12.2 14.1 21.2 14.0 (31.3) (72.6) (51.6) _ 0.3 392 342 302 306 373 432 490 \$5,054 11.1 9.4 21.1 23.5 25.3 28.3 16.1 15.8 353 312 249 248 297 336 422 \$4,366 November December January February March April May Total Year Jun-Mar

947 937 924 832 1,112

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in exaggerated traffic and toll revenue impacts in February 2020 compared to February 2019.

(3) In response to the COVID-19 pandemic, schools were closed statewide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020. (4) AET conversion and vehicle classification changes were implemented in April 2018.



Turnpike I-376 - Beaver Valley Expressway - Monthly Transaction and Revenue Trends Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Table 9

			Pass	Passenger C	r Cars				ř	Toll Transactions (in 1,000s) Commercial Vehicles	ransactions (in 1,0 Commercial Vehicles	(in 1,000s) hicles				Total	Total Vehicles		
Month	2017-18	%Chg	2018-19	% Chg	2019-20	%Chg	2020-21	2017-18	%Chg	2018-19	% Chg	20	% Chg	2020-21	2017-18 % Chg	2018-19	%Chg 2	2019-20 %Chg	2020-21
June	293	4.8	621	3.7	644	4 (27.2)	469	126	1.4	127	(3.9)	122	2.4	125			2.4	766 (22.5)	594
ylut	293	8.4	643	2.8	199	1 (23.1)		114	12.8	129	(0.7)	128	1.6	130		1 771	2.2	788 (19.1)	638
August	604	12.1	229	(0.2)	675	5 (23.3)		127	11.5	142	(5.2)	134	(0.9)	126	730 12.0	0 818	(1.1)	809 (20.5)	644
September	283	6.2	619	2.0	632	2 (16.5)		118	2.7	122	5.6	125	9.9	132	702 5.	5 741	2.1	756 (12.9)	629
October	577	13.7	657	2.0	670	0 (19.3)		120	16.0	140	(2.8)	132	(1.5)	130	698 14.1		9.0	801 (16.4)	670
November	541		591	0.5	593	(37.6)		105	9.9	112	(3.1)	108	(4.7)	103		8 703	(0.1)	702 (24.0)	533
December	534		582	0.4	285		400	91	8.2	66	(4.8)	94	(0.7)	93	625 9.0	0 681	(0.3)		493
January	478		519	5.1	545	5 (27.3)		06	11.5	101	(3.5)	97	(5.4)	92	.6 695	029 0	3.7	642 (24.0)	488
February	465	9.3	208	2.0	518	8 (27.3)		91	4.2	95	(1.7)	93	(10.5)	83	556 8.	4 603	1.4	611 (24.8)	460
March	552		296	(32.5)	402	2 23.4	496	106	5.9	109	(12.2)	96	21.7	116	658 7.2	2 705	(29.4)	498 23.0	613
April	268		613	(62.7)	229	6		115	8.8	125	(32.9)	84			.8 8.9	0 738	(57.7)	312	
May	623	5.9	099	(45.4)	360	ol		132	0.7	133	(19.7)	106			755 5.0	0 793	(41.1)	467	
Total Year	6,711	9.8	7,286		6,514	4		1,335	7.2	1,431	(7.8)	1,319			8,046 8.3	3 8,717	(10.1)	7,833	
Jun-Mar	5,519	8.9	6,013	1.	5,925	5 (21.3)	4,662	1,088	7.8	1,173	(3.8)	1,128	0.2	1,130	6,608 8.8	8 7,186	(1.8)	7,054 (17.9)	5,792
			Dage	Daecondor	S. S.				•	Toll Revenue (in \$1,000s)	Revenue (in \$1,00	\$1,000s)				Total	Total Vehicles		
74	204.7	, O.	0,000	200	00000	70 /0	10.00	0, 1, 100	140 %	2010 10	1	5	10 /0	20.000	2017 to 0/ Ch-	. 0100		- HO 70 OC 050C	20.00
edil	\$777		1	12.5	\$205			\$369	4 6	\$375	3 0 2	٧	12.0	\$430	2	\$1 221		۱g	\$1 322
ylly	780		875	15.1	1,007	_		332	12.3	373	7.5	401	8.4	434			12.8		1,332
August	787	_	935	7.3	1,003			366	13.5	415	0.4	417	4.5	435			5.2	_	1,382
September	748	3 15.0	861	11.1	957	7 (5.3)	406	349	2.3	357	10.4	394	13.1	446	1,098 11.0	0 1,218	10.9		1,353
October	749		892	16.8	1,042		1,059	341	20.1	410	2.7	421	9.5	461	1,090 19.5	5 1,302	12.3	1,463 3.8	1,519
November	692	15.5	803	34.9	1,083	3 (34.0)	715	304	7.1	326	15.5	376	(6.7)	340	999 13.0	0 1,129	29.3	1,459 (27.8)	1,054
December	683	14.8	784	34.7	1,057	7 (26.7)	774	268	8.9	286	14.4	327	(5.4)	319	951 12.6	5 1,070	29.3	1,384 (21.0)	1,094
January	642	18.9	763	29.3	286	7 (25.5)		266	15.4	307	10.5	340	(4.4)	325	908 17.9	1,071	23.9	1,327 (20.1)	1,060
February	623	1 21.2	755	21.3	916	6 (26.2)		278	9.8	302	7.8	326	(13.1)	283	901 17.3	3 1,057	17.4	1,242 (22.7)	096
March	748	3 20.4	006		637	7 53.0	975	324	10.1	356	(8.3)	327	28.0	418	1,071 17.3	1,257	(23.3)	964 44.5	1,393
April	781	. 17.8	920	(26.9)	397	7		345	16.9	403	(25.7)	299			1,126 17.5	1,323	(47.4)	969	
May	837	17.5	984	(33.2)	657	7		389	9.7	426	(11.9)	376	,		1,226 15.0	0 1,411	(26.7)	1,033	
Total Year	\$8,845	16.7	\$10,321	3.6	\$10,69	7		\$3,931	10.3	\$4,337	1.2	\$4,389			\$12,776 14.7		5.9	\$15,086	
Jun-Mar	7,226	16.5	8,416	14.6	9,643	3 (11.1)	\$8,568	3,198	9.7	3,507	5.9	3,714	2.0	\$3,901	10,424 14.4	4 11,924	12.0	13,357 (6.6)	\$12,469

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in eaggerated traffic and toll revenue impacts in February 2030 compared to February 2019.

(3) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.



Turnpike I-576 - Southern Beltway - Findlay Connector - Monthly Transaction and Revenue Trends Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included

					,				_	Toll Transactions (in 1,000s)	ctions	(in 1,000s	-				F	17.7			
;			0	sse ng	2			1	1	Comme	Commercial Venicles	nicies	1		1		30	lotal Venicles	Sel		
Month	2017-18	ı	g 2018-19	%	02-6102 gr	1	2020-21	2017-18	*	2018-19	*	2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	ı	2020-21
June	15		(0	140 0.5	2	140 (33.3)		19	_	22	54.2	33	(0.7)	33	175	(8.1)	161	7.7	174	(27.1)	127
July	158	58 (11.2)	2)	140 5.8	∞į	148 (32.7)		20	8.8	22		27	14.2	31	178	(8.9)	162		175	(25.4)	131
August	17		3)	139 7.4	4	149 (29.5)		23	28.8	30	(2.3)	29	10.7	33	196		169		179	(22.9)	138
September	154		3)	124 10.8	∞			22	37.1	31		30	18.5	35	176	(12.2)	155	8.0	167	(15.1)	142
October	164		2)	139 8.6	9	151 (24.4)		22	17.2	25	38.7	35	(10.2)	32	186		164	13.2	186	(21.7)	146
November	14	148 (13.4	4	128 4.0	0	133 (26.2)		19	21.8	23	76.8	41	(22.9)	32	167	(9.4)	151	15.3	174	(25.4)	130
December	14	140 (11.5)	2)	124 6.2	2	132 (27.2)		17	31.7	22	70.5	37	(22.3)	29	157	(6.9)	146		169	(26.1)	125
January	131		(/	118 5.9	<u>و</u>	125 (27.4)	91	16	38.6	22	75.4	33	(5.4)	37	147	(4.4)	141	17.0	165	(22.2)	128
February	122		(8	115 3.3	6	118 (28.2)		16	37.2	22	67.1	37	7.9	40	138	(0.7)	137	13.7	155	(19.6)	125
March	143		2)	131 (25.2)	2)	98 12.5		20	82.3	36	(3.8)	35	(0.1)	35	163	2.8	167	(50.6)	133	9.5	145
April	140	to (8.0)	(0	129 (56.1)	1)	57		20	87.3	38	(43.0)	22			161	4.2	168	(53.1)	79		
Мау	151	51 (6.7)	7	141 (45.7	7	77		25	45.4	36	(30.8)	25			176	0.7	177	(45.6)	102		
Total Year	1,779	79 (11.9)		1,567 (6.5	2)	1,465		240	37.9	330	18.5	391			2,019	(0.9)	1,898		1,857		
Jun-Mar	1,488	38 (12.8)	1	7.2 762,	7	1,332 (25.0)	666 (194	31.7	256	34.7	345	(2.4)	336	1,682	(7.7)	1,553		1,677	(20.3)	1,335
										Toll Revenue (in \$1.000s)	nue (in	\$1.000s)									
				Passe nge	er Cars					Comme	Commercial Vehicles	hicles					Tot	Total Vehicles	les		
Month	2017-18	% Chg	2018-	19 %Chg	ng 2019-20	9-20 % Chg	2020-21	2017-18	% Chg	2018-19	%Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21
June	\$110	10 42.4	4	\$157 11.8	∞	\$175 (21.7)	\$137	\$42	35.5	\$56	67.7	\$94	14.3	\$108	\$152	40.5	\$213	26.6	\$270	(9.1)	\$245
July	114	14 41.3	3	162 16.3	3	188 (29.9)	132	44	1 29.2	57	38.0	79	26.1	100	159	38.0	219	22.0	267	(13.3)	232
August	123	23 36.9	6	168 9.5	2	184 (19.1)	149	51	. 57.3	79	6.4	82	25.6	106	173	42.8	247	8.5	268	(2.0)	255
September	108	36.4	4	147 23.0	0	181 (21.9)		48	3 70.1	82	4.3	98	26.0	108	156	46.8	230	16.3	267	(6.5)	250
October	11	116 40.6	9	164 18.1	1	193 (11.6)		48	3 41.6	89	46.8	100	(2.1)	86	165	40.9	232	26.5	293	(8.4)	569
November	10	103 43.8	∞	148 11.9	6	166 (24.7)	125	43	42.8	61	103.6	124	(24.2)	94	146	43.5	209	38.6	290	(24.5)	219
December	10	101 43.3	3	145 18.1	1	171 (13.4)		38	52.3	57	86.9	107	(20.4)	98	139	45.8	202	37.7	278	(16.1)	233
January	S	91 62.4	4	147 20.1	1	177 (24.7)		37	, 64.5	61	114.8	131	(2.5)	127	128	63.0	208	47.8	307	(15.3)	260
February	so	35 70.1	1	144 12.1	1	162 (26.1)	120	36	72.9	63	97.4	125	11.1	138	121	70.9	208	38.0	286	(6.6)	258
March	10	101 68.5	2	170 (31.3	3)	116 43.8		44	147.2	108	5.4	114	4.0	119	144	92.3	278	(17.0)	231	24.1	286
April	u	98 68.0	0	165 (49.9	(6	83		46	146.9	112	(37.1)	71			144	93.1	277	(44.7)	153		
Мау	10	106 69.6	9	179 (37.1	1)	113		54	93.7	104	(23.3)	80			159	77.7	283	(32.0)	192		
Total Year	\$1,255	55 51.0		\$1,895 0.7		\$1,909		\$230	71.8	\$911	31.3	\$1,195			\$1,785	57.2	\$2,806	10.6	\$3,104		
Jun-Mar	1,052	52 47.5		1,551 10.5	2	1,714 (16.9)	\$1,423	431	. 61.2	694	50.5	1,045	3.8	\$1,084	1,483	51.5	2,246	22.8	2,759	(9.1)	\$2,508
NOTES:	1																				

NOLES:

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in exaggerated traffic and toll revenue impacts in February 2020 compared to February 2019.

(3) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order shown and lifted on June 5, 2020.

(4) AET conversion and vehicle classification changes were implemented in June 2018.

(5) The I-576 tolling configuration was changed from six ramp tolls to two mainline toll gantries at the time of AET conversion in June 2018.



Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Delaware River Bridge - Monthly Transaction and Revenue Trends Table 11

									ř	oll Transactions (in 1,000s	ctions	in 1,000s									
			Pass	Passenger C	er Cars					Comme	Commercial Vehicles	hicles					Tota	Total Vehicles	es		
Month	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 %	%Chg 20	2020-21
June	601	7.3	645	28.4	828	(35.4)	536	104	10.1	115	8.4	124	9.4	136	705	7.7	760	25.4	953	(29.5)	671
July	637	4.3	664		823	(25.2)	638	86	14.5	113	17.6	132	2.8	140	735	5.7	777	26.8	982	(21.1)	778
August	920	0.9	689		855	(17.3)	707	109	10.6	120	11.3	134	1.9	136	759	6.7	810	22.1	:) 886	(14.7)	843
September	277	9.9	616	21.6	748	(14.6)	639	101	5.5	106	17.8	125	11.6	140	829	6.5	722	21.0	873 (:	(10.8)	779
October	583	20.1	700	8.6	260	(14.8)	648	108	17.5	127	10.1	140	3.5	145	691	19.7	827	8.9	006	(11.9)	793
November	563	24.1	669	9.5	293	(59.5)	561	103	13.1	117	8.8	127	4.6	133	999	22.4	815	9.1	3) 068	(22.1)	693
December	543	32.6	720	0.9	292	(32.6)	515	96	14.1	110	16.3	128	8.9	137	639	29.8	830	7.4	891 (;	(56.9)	651
January	467	31.0	612	89	999	(22.2)	518	96	20.0	115	11.5	129	1.7	131	563	29.1	727	9.5	794 (:	(18.3)	649
February	446	31.4	586	11.6	653	(34.2)	430	06	16.1	104	13.8	119	(2.3)	116	535	28.8	069	11.9	;) 277	(29.3)	546
March	519	36.3	707		466	30.7	609	102	14.9	117	11.5	131	15.1	150	621	32.8	824	(27.6)	265	27.3	200
April	561	33.0	746		211			104	19.7	125	(12.3)	109			999	30.9	870	(63.3)	320		
May	611	30.8	799	(23.0)	376			115	14.2	132	(7.1)	123			727	28.1	931	(46.5)	498		
Total Year	6,758	21.1	8,182		7,942			1,227	14.1	1,400	8.5	1,520			7,984	20.0	9,582	(1.3)	9,462		
Jun-Mar	5,586	18.8	6,637	10.8	7,356	(21.1)	2,800	1,007	13.6	1,144	12.6	1,288	2.8	1,363	6,593	18.0	7,781	11.1	8,644 (:	(17.1)	7,163
									•	Toll Revenue (in \$1,000s)	ine (in	\$1,000s)									
			Pass	Passenger Cars	Cars					Comme	Commercial Vehicles	hicles					Tota	Total Vehicles	es		
Month	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20 %	% Chg 20	2020-21
June	\$3,098	6.2	\$3,291	34.5	\$4,455	(29.1)	\$3,139	\$1,879	8.7	\$2,043	14.3	\$2,335	16.2	\$2,713	\$4,978	7.2	\$5,334	26.7	\$6,760	(13.4)	\$5,851
July	3,260	3.7	3,381	36.9	4,627	(21.7)	3,624	1,767	13.0	1,998	24.2	2,482	10.8	2,750	5,027	7.0	5,379	32.2	7,109 (:	(10.4)	6,374
August	3,337	9.9	3,557	31.8	4,689	(12.8)	4,087	1,952	10.1	2,149	17.7	2,529	8.9	2,702	5,289	7.9	5,706	26.5	7,218	(0.9)	6,788
September	3,000	5.5	3,165	27.8	4,045	(0.6)	3,682	1,831	4.7	1,916	23.6	2,368	15.4	2,734	4,831	5.2	5,081	26.2	6,413	0.0	6,416

									_	I oll Kevenue (in \$1,000	une (III	\$1,000s)									
			Pas	Passenger (er Cars					Comme	Commercial Vehicles	hicles					Tota	Total Vehicles	se		
Month	2017-18	% Chg	2017-18 %Chg 2018-19 %Chg	%Chg	2019-20	%Chg 2	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21
June	\$3,098	6.2	\$3,291	34.5	·Λ	(29.1)	\$3,139	\$1,879	8.7	\$2,043	14.3	\$2,335	16.2	\$2,713	\$4,978	7.2	\$5,334	26.7	\$6,760	(13.4)	\$5,851
ylut	3,260	3.7	3,381	36.9	4,627	(21.7)	3,624	1,767	13.0	1,998	24.2	2,482	10.8	2,750	5,027	7.0	5,379	32.2	7,109	(10.4)	6,374
August	3,337 6.6	9.9	3,557	31.8	4,689	(12.8)	4,087	1,952	10.1	2,149	17.7	2,529	8.9	2,702	5,289	7.9	5,706	26.5	7,218	(0.9)	6,788
September	3,000	5.5	3,165	27.8	4,045	(0.6)	3,682	1,831	4.7	1,916	23.6	2,368	15.4	2,734	4,831	5.2	5,081	26.2	6,413	0.0	6,416
October	2,962	20.2	3,560	16.2	4,137	(6.1)	3,886	1,938	17.4	2,275	16.5	2,650	9.0	2,889	4,900	19.1	5,835	16.3	6,787	(0.2)	6,775
November	2,783	28.5	3,577	16.2	4,157	(25.2)	3,110	1,821	14.0	2,076	15.9	2,405	8.9	2,568	4,604	22.8	5,653	16.1	6,562	(13.5)	2,677
December	2,827	28.4	3,631	11.9	4,061	(23.0)	3,126	1,754	12.2	1,968	22.4	2,409	12.6	2,713	4,581	22.2	5,599	15.6	6,470	(8.6)	5,839
January	2,461	33.8	3,293	19.3	3,927	(19.3)	3,169	1,720	25.5	2,159	19.5	2,580	5.2	2,715	4,181	30.4	5,452	19.4	6,508	(9.6)	5,885
February	2,265	39.7	3,164	19.3	3,776	(31.3)	2,593	1,621	21.4	1,967	21.6	2,392	(0.3)	2,384	3,886	32.1	5,131	20.2	6,168	(19.3)	4,978
March	2,639	45.8	3,848	(32.9)	2,583	45.5	3,758	1,825	22.2	2,230	13.8	2,538	22.7	3,114	4,464	36.1	6,078	(15.7)	5,122	34.2	6,872
April	2,879	40.0	4,030	(69.5)	1,230			1,858	25.9	2,340	(2.7)	2,206			4,737	34.5	6,369	(46.0)	3,437		
May	3,104		4,330	(49.2)	2,202	ļ		2,049	21.1	2,482	0.1	2,484			5,154	32.2	6,812	(31.2)	4,686	ļ	
Total Year	\$34,615	23.7	\$42,826 2.4	2.4	\$43,859			\$22,016	16.3	\$25,603	14.7	\$29,379			\$56,631	20.8	\$68,429	7.0	\$73,239		
Jun-Mar	28,633		34,467	17.3	40,428	(15.5)	\$34,174	18,108	14.8	20,781	18.8	24,689	10.5	\$27,281	46,741	18.2	55,248	17.9	65,117	(2.6)	\$61,454
	ı																				

NOTES:

(1) Toli increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in exaggerated traffic and toll revenue impacts in February 2020 compared to February 2019.

(3) The Delaware River Bridge was closed due to structural integrity concerns from January 20, 2017 to March 9, 2017.

(4) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at thome orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.



Transactions Include Only Toll Transactions - Non-Revenue Transactions Are Not Included Gateway Toll Plaza - Monthly Transaction and Revenue Trends Table 12

Month 2017-18 W-Chy 2018-19 W-Chy 20										_	oli iransactions (in 1,000s,	ctions	(III 1,000S)	_								
34 (28) 324 (29) 325 (29) 327				Pa	ssenger (Cars					Comme	rcial Ve	hicles					Tota	I Vehick	sə		
34 (2.8) 324 (2.9) 315 (3.94) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 221 (3.9) 222 (3	Month	2017-18	% Chg	2018-19	%Chg	2019-20	% Chg	2020-21		%Chg	2018-19	% Chg		% Chg	2020-21	2017-18	% Chg		%Chg		% Chg	2020-21
367 (2.5) 358 (4.3) 342 (22.3) 266 81 4.2 84 (2.0) 83 15.4 95 448 (1.3) 442 (3.9) 425 (15.0) 425 (1	June	33			2			221	87	1.4	88	(3.7)	85	8.6	92	421	(2.0)	412	(3.1)	400	(21.7)	313
342 1.8 348 (3.2) 357 (20.1) 269 9.3 (5.5) 87 12.0 98 432 2.1 441 (3.7) 425 (13.5) 276 2.3 2.3 (5.3) 2.3 (5.4) 2.6 (5.5) 3.5 (3.4) 3.5 (3.5) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6) 3.5 (3.6)	July	36.					_	266	81	4.2	8	(5.0)	83	15.4	95	448	(1.3)	442	(3.9)	425	(15.0)	361
276 2.3 283 (5.3) 286 (12.1) 236 (12.1) 236 (12.1) 236 (12.1) 236 (3.1) 351 (5.5) 351 (5.5) 351 (5.5) 351 (5.5) 351 (5.5) 351 (5.5) 352 (5.5) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.7) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 (5.2) 352 352 352 353 353 353 353 353 353 353 353 <td>August</td> <td>34.</td> <td></td> <td></td> <td><u>—</u></td> <td>337</td> <td>_</td> <td>269</td> <td>06</td> <td>3.3</td> <td>93</td> <td>(2.5)</td> <td>87</td> <td>12.0</td> <td>86</td> <td>432</td> <td>2.1</td> <td>441</td> <td>(3.7)</td> <td>425</td> <td>(13.5)</td> <td>367</td>	August	34.			<u>—</u>	337	_	269	06	3.3	93	(2.5)	87	12.0	86	432	2.1	441	(3.7)	425	(13.5)	367
279 0.0 279 0.7 281 (16.6) 2.35 88 4.7 9.2 5.2 9.6 3.9 100 367 1.1 371 1.8 378 (11.4) 370 (11.4) 3	September	J.Z.					_	236	80	3.5	83	8.0	83	15.8	96	356	2.5	365	(3.9)	351	(2.5)	332
280 (1.7) 275 (2.9) 267 (27.9) 193 81 16 83 28 85 7.3 91 361 (0.9) 357 (1.5) 352 (19.4) 357 (1.5) 352 (19.4) 359 (1.5) 399 (1.5) 359 (1.5) 399 (1.	October	275					_	235	88	4.7	92	5.2	96	3.9	100	367	1.1	371	1.8	378	(11.4)	335
261 0.8 263 6.7 280 (37.6) 175 76 1.2 77 8.5 83 11.9 93 337 0.9 340 7.1 364 (26.3) 84	November	28(193	81	1.6	83	2.8	82	7.3	91	361	(0.9)	357	(1.5)	352	(19.4)	284
155 150 150 2.07 (121) 168 170 171 181 173 181 173 181 183 1	December	.96						175	92	1.2	77	8.5	83	11.9	93	337	6.0	340	7.1	364	(26.3)	268
187 (1.2) 185 7.2 198 (26.9) 145 75 1.5 76 9.3 83 2.3 85 26.0 (6.5) 261 7.8 281 (18.3) 3.5 256 (2.8) 246 (34.5) 185 26.5 2.06 84 1.0 85 7.4 92 15.9 106 341 (1.9) 334 (23.8) 255 22.7 3.5 254 (6.3) 254 (6.0) 1.2 284 (3.5) 2.6 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	January	19					_	168	80	1.7	81	7.3	87	3.8	06	275	(1.3)	271	8.5	294	(12.3)	258
256 (2.8) 249 (34.5) 163 26.5 2.06 84 1.0 85 7.4 92 15.9 106 341 (1.9) 334 (23.8) 255 22.7 3.8	February	18.			5 7.2	198	_	145	75	1.5	76	9.3	83	2.3	82	262	(0.5)	261	7.8	281	(18.3)	230
254 (0.3) 253 (88.9) 79 84 2.2 86 (8.4) 79 338 0.3 339 (53.5) 158 2 20 1.6 225 (49.0) 151 90 0.6 90 (7.7) 83 380 (7.7) 83 280 14 385 (39.3) 234 2 3,322 (0.6) 3,302 (12.5) 2,888 20 (9.1) 2.4 841 2.8 865 9.6 948 3,598 (0.1) 3,599 (2.0) 3,524 (13.2) Passenger Cars 2 24 (0.4) 79 389 (2.4) 389 (39.3) 158 2 25 1,018 80 1,027 865 9.6 948 3,598 (0.1) 3,599 (2.0) 3,524 (13.2) Toll Revenue (in \$1,000s) Commercial Vahicles Commercial Vahicles	March	25t						206	84	1.0	82	7.4	92	15.9	106	341	(1.9)	334	(23.8)	255	22.7	312
250 16 225 (49.0) 151	April	25							84	2.2	86	(8.4)	79			338	0.3	339	(53.5)	158		
3,322 (0.6) 3,302 (12.5) 2,888 995 2.2 1,018 0.9 1,027 4,317 0.1 4,320 (9.4) 3,915 2,777 (0.8) 2,754 (3.5) 2,659 (20.6) 2,112 821 2.4 841 2.8 865 9.6 948 3,598 (0.1) 3,595 (2.0) 3,524 (13.2) 4,777 (0.8) 2,754 (3.5) 2,659 (2.6) 2,112 (1.5) 2,777 (0.8) 2,754 (3.5) 2,754 (May	29(-						06	9.0	06	(7.7)	83			380	1.4	385	(39.3)	234		
2,777 (0.8) 2,754 (3.5) 2,659 (20.6) 2,112 821 2.4 841 2.8 865 9.6 948 3,598 (0.1) 3,595 (2.0) 3,524 (13.2) Toll Revenue (in \$1,000s) Passenger Cars Commercial Vehicles Total Vehicles	Total Year	3,32		,	Ξ,		1 =-		995	2.2	1,018	6.0	1,027			4,317	0.1	4,320	(9.4)	3,915		
Toll Revenue (in \$1,000s) Commercial Vehicles	Jun-Mar	2,77.	7 (0.8)	2,754	(3			2,112	821	2.4	841	2.8	865	9.6	948	3,598	(0.1)	3,595	(2.0)	3,524	(13.2)	3,060
Toll Revenue (in \$1,000s) Commercial Vehicles																						
Commercial Vehicles				,	•						Toll Rever	nue (in	\$1,000s)					,	:			
				Pa	ssenger (Cars					Comme	rcial Ve	nicles					lota	Venicle	es		

										Toll Revenue (in \$1,000s	ine (in	\$1,000s)									
			Pass	enger Cars	Sars					Comme	Commercial Vehicles	hicles					Tota	Total Vehicles	se		
	2017-18	% Chg	2018-19	%Chg	2019-20	% Chg	2020-21	2017-18	%Chg	2018-19	% Chg	2019-20	% Chg	2020-21	2017-18	% Chg	2018-19	% Chg	2019-20	% Chg	2020-21
June	\$1,962 3.1 \$2,023 2.6	3.1	\$2,023	5.6	\$2,075	5 (22.1)	÷	\$1,661	9.5	\$1,813	1.8	\$1,845	9.0	\$2,012	\$3,623	5.9	\$3,837	2.2	\$3,920	(7.4)	\$3,628
	2,159	3.3	2,231	1.7		9 (22.7)	_	1,554	15.0	1,787	3.4	1,848	8.3	2,002	3,713	8.2	4,018	2.5	4,117	(8.8)	3,756
	2,000	8.1	2,161	1.9	2,203	3 (7.0)	_	1,728	11.1	1,920	(0.1)	1,917	9.6	2,102	3,728	9.5	4,081	1.0	4,120	0.7	4,150
	1,612	8.2	1,745	0.7	1,75	7 (6.4)	.) 1,645	1,539	11.8	1,720	5.3	1,811	12.6	2,039	3,151	10.0	3,465	3.0	3,568	3.2	3,683
	1,615	5.7	1,708	(0.5)	1,699	9 6.0		1,682	11.6	1,877	2.8	1,986	10.2	2,189	3,297	8.7	3,584	2.8	3,685	8.3	3,989
	1,610	4.0	1,675	3.3	1,730	0 (28.5)	1,237	1,569	7.4	1,685	8.9	1,835	5.4	1,933	3,179	5.7	3,359	6.1	3,565	(11.1)	3,170
	1,497	6.7	1,597	28.8	2,057	7 (36.2)	1,312	1,464	7.4	1,571	15.2	1,811	11.8	2,025	2,961	7.0	3,169	22.1	3,868	(13.7)	3,336
	1,176	5.6	1,206	28.3	1,547			1,622	7.6	1,746	7.7	1,881	9.1	2,051	2,797	5.5	2,952	16.1	3,427	(3.4)	3,310
	1,134	4.7	1,187	15.4	1,370	0 (25.6)	1,019	1,533	8.0	1,657	7.9	1,787	5.5	1,885	2,667	9.9	2,844	11.0	3,157	(8.0)	2,904
	1,576	3.1	1,626	(35.1)	1,054	4 37.0		1,721	7.4	1,848	3.7	1,915	24.1	2,377	3,297	5.4	3,473	(14.5)	2,970	28.7	3,822
	1,565	5.2	1,646	(64.7)	583	Ţ.		1,715	8.4	1,859	(9.9)	1,737			3,280	6.9	3,505	(33.9)	2,318		
	1,785	8.0	1,928	(20.2)	32	4		1,835	5.7	1,940	(6.3)	1,817			3,621	8.9	3,868	(28.4)	2,771		
	\$19,692	.3	\$20,733	(6.9)	\$19,29	ñυ		\$19,622	9.2	\$21,422	3.6	\$22,191			\$39,314	7.2	\$42,155	(1.6)	\$41,486		
	16,342	2.0	17,159	3.5	17,761	(14.8)	() \$15,134	16,072	9.6	17,622	2.8	18,636	10.6	\$20,615	32,413	7.3	34,782	4.6	36,398	(1.8)	\$35,749

(1) Toll increases occur every year with exceptions. Refer to Table 1 for details.

(2) Leap year occurred in 2020, resulting in exaggerated raffic and toll revenue impacts in February 2020 compared to February 2019.

(3) In response to the COVID-19 pandemic, schools were closed state-wide on March 16, 2020 and stay at home orders for some counties began to take effect on March 23, 2020. A state-wide stay at home order was issued April 1, 2020 and lifted on June 5, 2020.



Actual and Assumed Toll Rate Increases

Annual toll rate increases are assumed to occur on the entire Turnpike System. The toll rate increases are assumed to occur at 12:01 AM on the first Sunday after January 1 of each year unless otherwise noted. **Table 13** presents the annual percent increases in toll rates for E-ZPass, cash, and video from calendar year 2020 through 2050.

Table 13
Actual and Assumed Percent Changes in Turnpike System Toll Rates
Pennsylvania Turnpike System

Year (2) E-ZPass Cash Video Regis 2020 (3) 6.00 6.00 6.00 2021 (3) 6.00 N/A 6.00/45.00 (4) 2022 5.00 N/A 5.00 2023 5.00 N/A 5.00 2024 5.00 N/A 5.00 2025 5.00 N/A 5.00 2026 4.00 N/A 3.50 2028 3.00 N/A 3.50 2028 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A <td< th=""><th>ered Video Account (RVA N/A -15.00 (5) 5.00 5.00 5.00 5.00 4.00 3.50</th></td<>	ered Video Account (RVA N/A -15.00 (5) 5.00 5.00 5.00 5.00 4.00 3.50
2021 (3) 6.00 N/A 6.00/45.00 (4) 2022 5.00 N/A 5.00 2023 5.00 N/A 5.00 2024 5.00 N/A 5.00 2025 5.00 N/A 5.00 2026 4.00 N/A 4.00 2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00	-15.00 (5) 5.00 5.00 5.00 5.00 4.00 3.50
2022 5.00 N/A 5.00 2023 5.00 N/A 5.00 2024 5.00 N/A 5.00 2025 5.00 N/A 5.00 2026 4.00 N/A 4.00 2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	5.00 5.00 5.00 5.00 4.00 3.50
2023 5.00 N/A 5.00 2024 5.00 N/A 5.00 2025 5.00 N/A 5.00 2026 4.00 N/A 4.00 2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	5.00 5.00 5.00 4.00 3.50
2024 5.00 N/A 5.00 2025 5.00 N/A 5.00 2026 4.00 N/A 4.00 2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	5.00 5.00 4.00 3.50
2025 5.00 N/A 5.00 2026 4.00 N/A 4.00 2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	5.00 4.00 3.50
2026 4.00 N/A 4.00 2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	4.00 3.50
2027 3.50 N/A 3.50 2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.50
2028 3.00 N/A 3.00 2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	
2029 3.00 N/A 3.00 2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	
2030 3.00 N/A 3.00 2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2031 3.00 N/A 3.00 2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2032 3.00 N/A 3.00 2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2033 3.00 N/A 3.00 2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2034 3.00 N/A 3.00 2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2035 3.00 N/A 3.00 2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2036 3.00 N/A 3.00 2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2037 3.00 N/A 3.00 2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2038 3.00 N/A 3.00 2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2039 3.00 N/A 3.00 2040 3.00 N/A 3.00	3.00
2040 3.00 N/A 3.00	3.00
	3.00
2041 3.00 N/A 3.00	3.00
	3.00
2042 3.00 N/A 3.00	3.00
2043 3.00 N/A 3.00	3.00
2044 3.00 N/A 3.00	3.00
2045 3.00 N/A 3.00	3.00
2046 3.00 N/A 3.00	3.00
2047 3.00 N/A 3.00	3.00
2048 3.00 N/A 3.00	3.00
2049 3.00 N/A 3.00	
2050 3.00 N/A 3.00	3.00

⁽¹⁾ Toll rate increases are the same for all facilities and vehicle classes, except where otherwise noted.

⁽²⁾ Except where otherwise indicated, toll rate increases are applied on or near January 1.

⁽³⁾ Toll rate increases are actual.

⁽⁴⁾ All rates increased by 6%. Video rates increased by an additional 45% on the Ticket System and Mon Fayette Expressway (Turnpike 43) to bring the video rate premium in line with those on PTC's other AET facilities.

⁽⁵⁾ Registered video accounts are a new billing option that provides a 15% discount to video customers who pre-register their vehicle and provide electronic payment information.



Rate increase assumptions are unchanged since the 6-Month Update. With the suspension of cash collection in March and June of 2020 on the Ticket System and MFE, respectively, the Turnpike System now operates entirely under AET. As such, there are no cash rates shown in Table 13 for 2021 and beyond. As discussed above, to make the toll differential between E-ZPass and video rates similar on all toll facilities, in addition to a six-percent toll increase in January 2021, video rates on the Ticket System and MFE also increased by an additional 45 percent. Toll adjustment assumptions for the years 2022 and beyond are proposed and have not yet been formally approved by the PTC Board.

An additional rate tier, registered video account (RVA), has also been added to the rate schedule beginning in 2021. RVA accounts allow for a 15-percent discount off of the video rate for video customers who pre-register their vehicle with PTC and provide electronic payment information. This will allow PTC to process payments automatically without having to send billing invoices.

Actual and Assumed E-ZPass Penetration Rates

Table 14 presents the actual and assumed annual E-ZPass penetration rates from calendar year 2018 through 2050. The first three columns show the E-ZPass market share assumptions for the current 2021 Bring Down Letter. These were adjusted slightly on a facility-by-facility basis, by the amount shown in the three rightmost columns, over assumptions used in the 2020 6-Month Update.

As shown, assumed E-ZPass market shares in the current analysis are very similar to those assumed in the 2020 6-Month Update. Thus far in 2021, actual PC and CV E-ZPass market share have been slightly higher than previously estimated. This has resulted in new 2021 estimates being about 0.3 (PC) and 0.2 (CV) percent higher than previous estimates. Over the rest of the forecast period E-ZPass market share for both PCs and CVs is unchanged from the previous forecast.

Accordingly, total E-ZPass market share forecast assumptions also remain largely unchanged from those in the 2020 6-Month Update. The only difference is in 2021, where total E-ZPass market share is 0.3 percent higher than the previous forecast.



Table 14 Actual and Assumed Percent E-ZPass Penetration Pennsylvania Turnpike System

E-ZPass Penetration Rates

Vear Cars Trucks Total Cars Trucks Total 2018 (1) 80.0 90.6 81.5 0.0 0.0 0.0 2019 (1) 81.4 91.7 82.9 0.0 0.0 0.0 2020 (2) 82.9 92.2 84.3 0.0 0.0 0.0 2021 85.1 93.2 86.3 0.3 0.2 0.3 2022 85.9 93.8 87.1 0.0 0.0 0.0 2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 </th <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th>D</th> <th>ifference fro</th> <th>m</th>		-					D	ifference fro	m
2018 (1) 80.0 90.6 81.5 0.0 0.0 0.0 2019 (1) 81.4 91.7 82.9 0.0 0.0 0.0 2020 (2) 82.9 92.2 84.3 0.0 0.0 0.0 2021 85.1 93.2 86.3 0.3 0.2 0.3 2022 85.9 93.8 87.1 0.0 0.0 0.0 2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.	Calendar		2021	Bring Down	Letter				
2019 (1) 81.4 91.7 82.9 0.0 0.0 0.0 2020 (2) 82.9 92.2 84.3 0.0 0.0 0.0 2021 85.1 93.2 86.3 0.3 0.2 0.3 2022 85.9 93.8 87.1 0.0 0.0 0.0 2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0	Year	-	Cars	Trucks	Total	-	Cars	Trucks	Total
2020 (2) 82.9 92.2 84.3 0.0 0.0 0.0 2021 85.1 93.2 86.3 0.3 0.2 0.3 2022 85.9 93.8 87.1 0.0 0.0 0.0 2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2030 89.8 96.3 90.6 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2031 89.9 96.4 91.0 0.0 0.0 0.	2018	(1)	80.0	90.6	81.5		0.0	0.0	0.0
2021 85.1 93.2 86.3 0.3 0.2 0.3 2022 85.9 93.8 87.1 0.0 0.0 0.0 2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.6 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2031 89.9 96.4 91.0 0.0 0.0 0.0	2019	(1)	81.4	91.7	82.9		0.0	0.0	0.0
2022 85.9 93.8 87.1 0.0 0.0 0.0 2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2031 89.9 96.4 91.0 0.0 0.0 0.0 2032 90.0 96.5 91.1 0.0 0.0 0.0	2020	(2)	82.9	92.2	84.3		0.0	0.0	0.0
2023 86.6 94.2 87.8 0.0 0.0 0.0 2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2030 89.8 96.3 90.6 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2031 89.9 96.4 91.0 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 <t< th=""><th>2021</th><th></th><th>85.1</th><th>93.2</th><th>86.3</th><th></th><th>0.3</th><th>0.2</th><th>0.3</th></t<>	2021		85.1	93.2	86.3		0.3	0.2	0.3
2024 87.3 94.7 88.4 0.0 0.0 0.0 2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2031 89.9 96.4 91.0 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0	2022		85.9	93.8	87.1		0.0	0.0	0.0
2025 87.8 95.1 88.9 0.0 0.0 0.0 2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 <t< td=""><th>2023</th><td></td><td>86.6</td><td>94.2</td><td>87.8</td><td></td><td>0.0</td><td>0.0</td><td>0.0</td></t<>	2023		86.6	94.2	87.8		0.0	0.0	0.0
2026 88.3 95.5 89.4 0.0 0.0 0.0 2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0	2024		87.3	94.7	88.4		0.0	0.0	0.0
2027 88.8 95.8 89.8 0.0 0.0 0.0 2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 <t< td=""><th>2025</th><td></td><td>87.8</td><td>95.1</td><td>88.9</td><td></td><td>0.0</td><td>0.0</td><td>0.0</td></t<>	2025		87.8	95.1	88.9		0.0	0.0	0.0
2028 89.1 96.2 90.2 0.0 0.0 0.0 2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 <t< td=""><th>2026</th><td></td><td>88.3</td><td>95.5</td><td>89.4</td><td></td><td>0.0</td><td>0.0</td><td>0.0</td></t<>	2026		88.3	95.5	89.4		0.0	0.0	0.0
2029 89.5 96.3 90.6 0.0 0.0 0.0 2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2049 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0	2027		88.8	95.8	89.8		0.0	0.0	0.0
2030 89.8 96.3 90.8 0.0 0.0 0.0 2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0	2028		89.1	96.2	90.2		0.0	0.0	0.0
2031 89.9 96.4 90.9 0.0 0.0 0.0 2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 <t< td=""><th>2029</th><td></td><td>89.5</td><td>96.3</td><td>90.6</td><td></td><td>0.0</td><td>0.0</td><td>0.0</td></t<>	2029		89.5	96.3	90.6		0.0	0.0	0.0
2032 90.0 96.4 91.0 0.0 0.0 0.0 2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.9 91.7 0.0 0.0 0.0 <t< td=""><th>2030</th><td></td><td>89.8</td><td>96.3</td><td>90.8</td><td></td><td>0.0</td><td>0.0</td><td>0.0</td></t<>	2030		89.8	96.3	90.8		0.0	0.0	0.0
2033 90.1 96.5 91.1 0.0 0.0 0.0 2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.5 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0	2031		89.9	96.4	90.9		0.0	0.0	0.0
2034 90.2 96.5 91.2 0.0 0.0 0.0 2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0	2032		90.0	96.4	91.0		0.0	0.0	0.0
2035 90.2 96.5 91.2 0.0 0.0 0.0 2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0	2033		90.1	96.5	91.1		0.0	0.0	0.0
2036 90.3 96.6 91.3 0.0 0.0 0.0 2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0	2034		90.2	96.5	91.2		0.0	0.0	0.0
2037 90.4 96.6 91.3 0.0 0.0 0.0 2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0	2035		90.2	96.5	91.2		0.0	0.0	0.0
2038 90.4 96.7 91.4 0.0 0.0 0.0 2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0 <th>2036</th> <td></td> <td>90.3</td> <td>96.6</td> <td>91.3</td> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td>	2036		90.3	96.6	91.3		0.0	0.0	0.0
2039 90.5 96.7 91.4 0.0 0.0 0.0 2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2037		90.4	96.6	91.3		0.0	0.0	0.0
2040 90.5 96.7 91.5 0.0 0.0 0.0 2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2038		90.4	96.7	91.4		0.0	0.0	0.0
2041 90.6 96.8 91.5 0.0 0.0 0.0 2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2039		90.5	96.7	91.4		0.0	0.0	0.0
2042 90.6 96.8 91.6 0.0 0.0 0.0 2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2040		90.5	96.7	91.5		0.0	0.0	0.0
2043 90.7 96.8 91.6 0.0 0.0 0.0 2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2041		90.6	96.8	91.5		0.0	0.0	0.0
2044 90.7 96.9 91.7 0.0 0.0 0.0 2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2042		90.6	96.8	91.6		0.0	0.0	0.0
2045 90.8 96.9 91.7 0.0 0.0 0.0 2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2043		90.7	96.8	91.6		0.0	0.0	0.0
2046 90.8 97.0 91.8 0.0 0.0 0.0 2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2044		90.7	96.9	91.7		0.0	0.0	0.0
2047 90.8 97.0 91.8 0.0 0.0 0.0 2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2045		90.8	96.9	91.7		0.0	0.0	0.0
2048 90.9 97.0 91.9 0.0 0.0 0.0 2049 90.9 97.1 91.9 0.0 0.0 0.0	2046		90.8	97.0	91.8		0.0	0.0	0.0
2049 90.9 97.1 91.9 0.0 0.0 0.0	2047		90.8	97.0	91.8		0.0	0.0	0.0
	2048		90.9	97.0	91.9		0.0	0.0	0.0
2050 91.0 97.1 92.0 0.0 0.0 0.0	2049		90.9	97.1	91.9		0.0	0.0	0.0
	2050		91.0	97.1	92.0		0.0	0.0	0.0

⁽¹⁾ The E-ZPass penetration rates for both 2021 Bring Down Letter and the 2020 6-Month Update are actual through 2019.

^{(2) 2020} E-ZPass penetration rates are actual for the 2021 Bring Down Letter only.



Summary of Changes in Future Year Estimates for U.S. Gross Domestic Product and Pennsylvania Gross State Product

This section presents a comparison of the Gross Domestic Product (GDP) and Pennsylvania Gross State Product (GSP) information available for the 2020 6-Month Update with updated forecasts for both measures from Moody's Analytics. This information was a key input in developing estimated growth forecasts for the Turnpike System. All GDP and GSP figures in this section refer to year over year comparisons. For example, the 2nd quarter 2020 percent change would reflect the 2nd quarter of 2020 versus the 2nd quarter of 2019.

Figure 3 shows actual and estimated GDP at the time of the 2020 6-Month Update as well as the revised figures based on updated Moody's Analytics' forecasts as of May 2021. Since the 2020 6-Month Update, actual GDP growth figures have been released for an additional two quarters: the fourth quarter of 2020 and the first quarter of 2021. Encouragingly, actual GDP growth in these quarters was better than forecasted in November 2020, indicating that the economic effects of the COVID-19 pandemic were not as severe as forecast. At the time of the 2020 6-Month Update, GDP was forecasted to fall 2.8 percent in the fourth guarter of 2020 and 0.7 percent in the first guarter of 2021. In actuality, GDP contracted by only 2.4 in the fourth quarter of 2020 and grew 0.4 percent during the first quarter of 2021. Accordingly, GDP growth is now expected to be higher than previously forecast through the second quarter of 2022. From that point through the end of 2023 GDP growth is expected to be slower than originally predicted, though still positive, largely because the GDP growth associated with economic recovery is now forecasted to happen earlier. In the latest May 2021 forecast, recovery from the pandemic is forecast to be strong through 2024. Growth is expected to accelerate to 13.1 percent in the second quarter of 2021, level off to still strong levels of between three and eight percent through 2022, and remain at a stable level of between two and three percent through 2023 and 2024. At this point, both forecasts (November 2020 and May 2021) are close to converging and are at, or near, growth levels experienced during the 2017 through 2019 period, before the pandemic.



Figure 3
Comparison of November 2020 to May 2021 Quarterly Growth Estimates of U.S. Gross Domestic Product



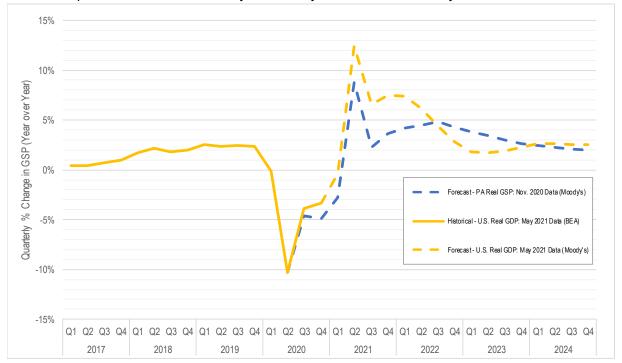
Sources: Historical estimates are from the BEA, and the forecasts are from Moody's Analytics (November 2020 and May 2021 Releases)

Figure 4 shows GSP trend and forecast data for Pennsylvania. However, because GSP data lags GDP data, GSP is actual through only the fourth quarter of 2020. Like GDP, the GSP forecast through 2024 has been noticeably altered by actual economic conditions experienced over the last two quarters. Third quarter 2020 GSP contracted less than forecasted in November (falling 3.9 percent compared to the 4.6 percent forecast), and economic recovery is now forecasted to occur more strongly and more quickly than predicted in November, peaking at 12.5 percent growth in the second quarter of 2021 as compared to peak of 8.8 percent growth in the same quarter, as previously forecast. The latest forecast predicts a strong recovery period from the second quarter of 2021 through the second quarter of 2022, with GSP growth of at least six percent each quarter. After this point, economic growth is forecast to continue to remain positive, albeit it at a slowing rate, eventually reaching 2.5 percent growth at the end of 2024. Like with GDP, at this point of the forecast period both forecasts (November 2020 and May 2021) are close to converging and similar to the historical growth rates experienced in 2018 and 2019, before the pandemic.



Figure 4

Comparison of November 2020 and May 2021 Quarterly Growth Estimates of Pennsylvania Gross State Product



Sources: Historical estimates are from the BEA, and the forecasts are from Moody's Analytics (November 2020 and May 2021 Releases)

Summary of Trends in Fuel Prices

Figure 5 portrays actual gasoline and diesel prices for the Central Atlantic Region from January 2017 through May 2021. Actual gasoline prices for the East coast are also shown. They closely mirror those for the Central Atlantic gasoline prices and are shown here because the Energy Information Administration (EIA) also provides monthly forecasts for this region. Figure 5 shows the monthly gasoline price forecast through the end of 2022.

As shown, Central Atlantic gasoline and diesel prices have followed generally similar trends throughout this period, although over the past year gasoline prices have had slightly greater price fluctuations than diesel prices. Generally, both prices have moved in tandem. Prices for both increased slowly in the second half of 2017 and early 2018, reaching a high of \$2.97 per gallon for gasoline in May 2018. Diesel prices reached a high of \$3.52 per gallon in October 2018. Prices of both gasoline and diesel fell in late 2018 and early 2019. Between February and May 2019 prices rose, with gasoline prices increasing more rapidly than diesel prices. For the remainder of 2019, prices decreased slightly, with diesel prices remaining very stable and gasoline prices experiencing slightly more volatility.

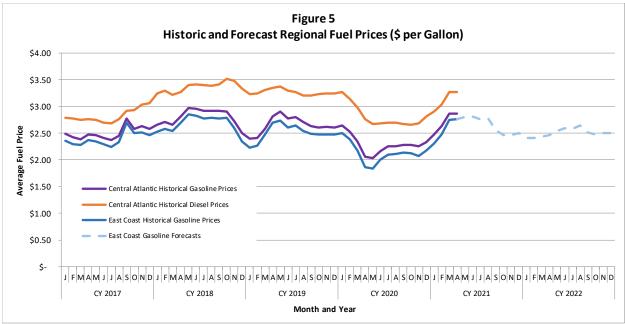


However, in 2020 prices fell sharply, first in response to an early March announcement that Saudi Arabia and Russia would increase oil supply in the coming months, and second, by an extreme worldwide economic slowdown in response to the COVID-19 pandemic. As a result, May 2020 per gallon prices in the Central Atlantic region fell to \$2.03 and \$2.68 for gasoline and diesel, respectively. Prices then stayed relatively flat for the next several months before beginning to rise quickly through the winter of 2020-21 as the economic effects of the pandemic waned. In March 2021 gasoline prices reached \$2.87 per gallon and diesel prices reached \$3.27 per gallon. This trend of quickly rising prices came to an end in April, however, as both regular and diesel prices fell by one cent per gallon compared to the previous month.

As noted above, the EIA only forecasts future gasoline prices for the East coast, which is a region that is larger than, and wholly encompasses, the Central Atlantic region. Historically, East coast region prices move in tandem with Central Atlantic prices but are approximately 10 to 20 cents lower. East coast gasoline prices are forecast to remain stable through the summer before falling in the winter, bottoming out at \$2.41 per gallon in January 2022. Prices are then forecast to rise slightly through the first half of 2022, peaking at \$2.65 per gallon in August, before falling again in the fall and winter. Therefore, east coast gasoline prices through the end of 2022 should generally be lower than they are currently. Based on historical trends, Central Atlantic prices can be expected to follow the same pattern, but at slightly higher prices.

The most recent gasoline prices are about \$0.60 higher than assumed they would be at this time in the 2020 6-Month Update. Over the remainder of 2021, the current forecast is between \$0.30 and \$0.50 cents higher each month. (A 2022 forecast was not available at the time of the 2020 6-Month Update.) The increase in both actual gasoline prices and forecast future prices over the past few months is a good indicator of a faster and stronger economic recovery than expected at the time of the 2020 6-Month Update, which largely aligns with the revised GDP and GSP forecasts discussed previously. The forecast of future prices are also similar to those experienced during 2018 and 2019.





Source: U.S. Energy Information Administration, release dates 5/3/2021 (historical) and 5/11/2021 (forecast).

Note: Retail Prices in USD for Regular All Formulations Retail Gasoline and Number 2 Diesel.

Central Atlantic states include Delaware, District of Columbia, Maryland, New Jersey, New York, and Pennsylvania.

East Coast states include Central Atlantic and New England states, Florida, Georgia, North Carolina, South Carolina, Virginia, and West Virginia.

Consumer Confidence

Consumer confidence is an important measure in that it highlights consumer's confidence in making purchases, their willingness to travel more, etc. Higher consumer confidence spurs demand for various goods and services, and it can be inferred that higher demand results in higher traffic on the roadways. Consumer confidence scores are indexed to the year 1985, for which consumer confidence equaled 100.

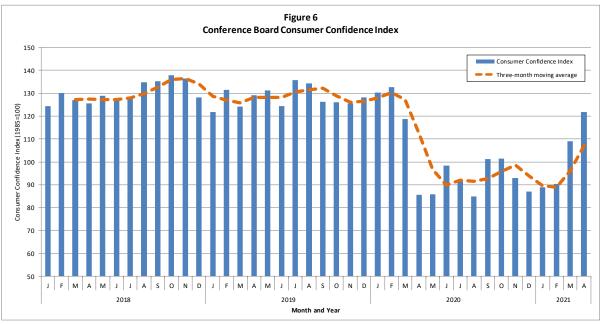
Figure 6 shows the Conference Board Consumer Confidence Index for the period between January 2018 and April 2021. Individual blue bars show index values for each month while the dotted line shows the three-month moving average. Consumer confidence exceeded 120 at the start of 2018 and rose throughout the year, peaking at a high of 137.9 in October 2018, which was the highest level of consumer confidence since September 2000. In 2019, consumer confidence fell slightly compared to 2018 but remained strong compared to historical levels.

Through the first two months of 2020, consumer confidence remained strong, increasing slightly since the end of 2019. However, since then, consumer confidence has fluctuated significantly, generally mirroring the national narrative regarding efforts to contain the COVID-19 pandemic. In 2020 consumer confidence declined sharply in March and even more significantly in April, when it fell to 85.7, reflecting the widespread economic shutdowns that were put in place as a result of the



COVID-19 pandemic. Consumer confidence rose as economic and travel restrictions were lifted in May and June, when it reached 98.3, indicating that consumers' expectations for the economy may have been stabilizing. However, it fell again in July and August, bottoming out at 84.8, reflecting increased COVID-19 infection rates that occurred in much of the southern and western U.S. as those states further loosened restrictions on commercial activities and people moved activities indoors to air-conditioned spaces. The Index once again rose in September and October, reaching 101.4, which was its highest level since March. However, consumer confidence fell to 92.9 in November and 87.1 in December as infection rates and deaths from COVID-19 reached their highest levels at any point during the pandemic.

In 2021, as the nationwide vaccination campaign started and infection rates began to stabilize, consumer confidence rose slightly in January and again in February, to 88.9 and 90.4, respectively. The Index jumped significantly to 109.0 in March and 121.7 in April, its highest levels in a year. Based on this history, it is reasonable to conclude that consumer confidence will continue to closely reflect the perceived success in containing the pandemic for the foreseeable future. According to the Senior Director of Economic Indicators at the Conference Board, "consumers' assessment of current conditions improved significantly in April, suggesting the economic recovery strengthened further in early Q2. Vacation intentions posted a healthy increase, likely boosted by the accelerating vaccine rollout and further loosening of pandemic restrictions."



Source: The Conference Board, release date April 27, 2021



Committed Roadway Improvements

Table 15 lists major capacity-enhancing roadway improvements with dedicated funding on the Pennsylvania Turnpike System. Most of these projects are part of PTC's statewide Total Reconstruction Initiative, which is a multi-year project to widen the mainline and the Northeast Extension to six lanes (three in each direction). On the Mainline I-76/I-276 this includes work throughout the Pittsburgh, Somerset, and Philadelphia metro areas. More than 130 miles had been completed as of May 2021, with an additional 17 miles under construction or funded. An additional 20 miles of the Northeast Extension have been widened, with 6 more miles scheduled to be completed by 2024. No projects have been added to the list since the 2020 6-Month Update, while the widening project on miles A31 to A38 on the Northeast Extension has been removed due to completion in late 2020. Furthermore, some dates and mileposts were updated to reflect the latest information available from PTC.

Table 15 also highlights three non-widening projects:

- A new cashless tolling interchange between I-276 and Lafayette Street in Montgomery County;
- An eight-mile extension of MFE to PA Route 837 in Allegheny County; and
- A 12.5-mile extension of Findlay Connector (Southern Beltway) in the Pittsburgh area.

These projects will serve to enhance capacity and create additional connections to other routes, all of which are expected to increase the number of travelers, and therefore revenue, on the Pennsylvania Turnpike System. Notably, the Southern Beltway project timeline has had a change since the 2020 6-Month Update that will impact traffic and revenue forecasts. A partial interchange with I-79 is expected to open in October 2021, a year earlier than previously stated: ramps from I-79 northbound to the Southern Beltway westbound and from the Southern Beltway eastbound to I-79 southbound. Ramps for all remaining movements will open in 2022. The forecast incorporates estimated traffic and revenue impacts of the complete Southern Beltway beginning in January 2022.

In addition to PTC-funded projects, the Pennsylvania Department of Transportation's (PennDOT's) Transportation Improvement Program (TIP) was reviewed. This review found no projects on competing or complementary routes that are expected to have an impact on Pennsylvania Turnpike System traffic and revenue.



Table 15
Major Committed Roadway Improvements on the Pennsylvania Turnpike System (1)

Milepost	Counties	Description	Actual or Assumed Start Date	Assumed Completion Date
Mainline I-76/	I-276			
28-31	Allegheny and Butler	Reconstruct and widen to 3 lanes in each direction	May 2020	September 2022
102-109	Somerset County	Reconstruct and widen to 3 lanes in each direction	January 2021	August 2024
123-130	Somerset and Bedford	Reconstruct and widen to 3 lanes in each direction	June 2022	2025
331	Montogmery	Construct a new cashless tolling interchange at Lafayette Street	Fall 2024	Fall 2027
Northeast Exte	nsion I-476			
A38-A44	Montgomery and Bucks	Reconstruct and widen to 3 lanes in each direction	Fall 2021	Fall 2024
Mon/Fayette E	xpressway Turnpike 43			
PA-51 to PA Route 837	Allegheny	Construct a eight-mile extension of the existing Turnpike 43 including three new interchanges	Summer 2022	2028
Southern Belty	vay Toll 576			
US-22 to I-79	Washington and Allegheny	Construct a 12.5-mile cashless tolling extension of Toll 576 from the southern terminus of the Findlay Connector at US-22 to I-79 including four new interchanges	December 2016	January 2022

⁽¹⁾ The major committed roadway improvement projects listed here are a small subset of all projects listed in PTC's FY 2021Ten Year Capital Plan

Actual Versus Estimated Traffic and Toll Revenue

Table 16 provides a comparison of actual traffic and toll revenue versus estimated traffic and toll revenue from CDM Smith's 2020 6-Month Update. The analysis period in this table is from November 2020 through March 2021. This five-month period corresponds to the period for which actual data currently exists but was estimated at the time of the 2020 6-Month Update.

For the five-month period shown in Table 16, total system actual PC transactions and revenue fell short of estimates by 3.1 percent and 8.3 percent, respectively. CV transactions and revenue exceeded estimates by 6.6 percent and 6.5 percent, respectively. When all vehicles are considered, actual transactions were 1.4 percent below estimates, while toll revenue underperformed estimates by 0.9 percent.

Table 16 also includes a comparison of actual traffic and toll revenue versus estimated traffic and toll revenue from CDM Smith's 2020 6-Month Update for each individual Turnpike toll facility. Total transactions for the Ticket System were 1.9 percent lower than the forecasted traffic, while actual total revenue was 1.1 percent lower than estimated. For the combined barrier toll facilities, total actual toll transactions exceeded CDM Smith estimates by 0.1 percent and actual toll revenue exceeded estimates by 0.3 percent.



Table 16 Comparison of Estimated and Actual Traffic Volumes and Gross Toll Revenue From November 2020 Through March 2021 (1)

Pennsylvania Turnpike System

	Total	Traffic (in Thou	sands)	Total Gross	Toll Revenue (i	n Thousands)
			Percent Difference			Percent Difference
			between Actual			between Actual
Facility	Estimated	Actual	and Estimated	Estimated	Actual	and Estimated
•			Passenge			
Ticket System	39,308	37,800	(3.8)	\$199,593	\$180,932	(9.3)
Gateway	1,016	886	(12.8)	7,264	6,271	(13.7)
Delaware River Bridge	2,726	2,633	(3.4)	16,083	15,756	(2.0)
Turnpike 43	3,775	4,216	11.7	7,782	7,962	2.3
Turnpike 66	2,231	2,258	1.2	4,396	4,662	6.0
Northeast Extension (Barrier)	1,246	1,055	(15.3)	1,628	1,449	(11.0)
Turnpike I-376	2,270	2,099	(7.5)	4,211	3,875	(8.0)
Turnpike I-576	528	480	(9.0)	756	693	(8.3)
Barrier Subtotal	13,792	13,629	(1.2)	\$42,121	\$40,668	(3.4)
Total System	53,101	51,429	(3.1)	\$241,714	\$221,601	(8.3)
			Commercial	Vehicles		
Ticket System	8,850	9,447	6.7	\$213,704	\$227,939	6.7
Gateway	437	466	6.8	9,795	10,271	4.9
Delaware River Bridge	601	666	10.8	12,430	13,494	8.6
Turnpike 43	308	366	19.0	1,740	1,907	9.6
Turnpike 66	401	408	1.7	2,134	2,121	(0.6)
Northeast Extension (Barrier)	479	483	0.8	3,327	3,302	(0.7)
Turnpike I-376	496	488	(1.5)	1,791	1,685	(5.9)
Turnpike I-576	150	173	15.2	485	564	16.2
Barrier Subtotal	2,870	3,049	6.2	\$31,703	\$33,345	5.2
Total System	11,721	12,496	6.6	\$245,407	\$261,284	6.5
			Total Veh	icles		
Ticket System	48,159	47,247	(1.9)	\$413,298	\$408,872	(1.1)
Gateway	1,452	1,352	(6.9)	17,059	16,542	(3.0)
Delaware River Bridge	3,327	3,299	(8.0)	28,514	29,251	2.6
Turnpike 43	4,083	4,582	12.2	9,521	9,869	3.6
Turnpike 66	2,632	2,666	1.3	6,531	6,783	3.9
Northeast Extension (Barrier)	1,725	1,538	(10.8)	4,955	4,752	(4.1)
Turnpike I-376	2,766	2,587	(6.4)	6,002	5,560	(7.4)
Turnpike I-576	677	653	(3.6)	1,241	1,257	1.3
Barrier Subtotal	16,663	16,678	0.1	\$73,823	\$74,013	0.3
Total System	64,821	63,925	(1.4)	\$487,121	\$482,885	(0.9)

⁽¹⁾ These five months correspond to the period for which actual data exists, but was estimated at the time of CDM Smith's 2020 6-Month Update.



Estimated COVID-19 Traffic and Toll Revenue Impacts

A key undertaking of this new forecast was to update the traffic and toll revenue impacts related to the COVID-19 pandemic over the forecast period. This section will provide a summary of the underlying assumptions CDM Smith has made in estimating the depth and longevity of the COVID-19 related impacts on Turnpike System traffic and toll revenue. Actual traffic and toll revenue experience through the end of March 2021 was collected as part of this analysis. Pandemic-related impacts began negatively effecting Turnpike System transactions and toll revenue in March 2020. A key assumption in this analysis is that COVID-19 related negative impacts would continue through FY 2025-26.

Due to the unpredictable nature of the pandemic and the changing infection rates, changes to operating procedures and capacity restrictions of businesses and schools is an unknown variable. While most restrictions have been lifted entirely, and are certainly looser than they were at the time of the 2020 6-Month Update in December, a future resurgence of the virus could potentially result in the re-establishment of restrictions. However, with 41 percent of all Pennsylvania residents fully vaccinated, 56 percent with at least one dose (as of May 20), an ongoing vaccination campaign, and recently expanded Pfizer vaccine eligibility for children ages 12-15 it seems likely that infection rates will continue to fall. Accordingly, traffic recovery is assumed to accelerate through the remainder of 2021.

Table 17 shows estimated historical and future COVID-19 related impacts on traffic and toll revenue between FY 2019-20 and FY 2026-27. Only the final three months of FY 2019-20 (March, April, May) were impacted, but over that time total traffic volumes were estimated to have been reduced by 21.9 million, or about 10.7 percent of total transactions. Gross toll revenue was reduced by about \$142.2 million over the same time period (9.9 percent of total gross toll revenue). While the peak monthly negative impacts occurred in FY 2019-20, the largest annual declines are assumed to occur in FY 2020-21 since this will include 12 months of negative impacts. As shown in Table 17, total transaction losses of 30.2 million are assumed (15.1 percent of total transactions), along with gross toll revenue losses of \$254.0 million (16.9 percent of total gross toll revenue). Negative traffic and toll revenue impacts are estimated to lessen over the following five years. By FY 2025-26 total traffic and gross toll revenue losses are assumed to be only about 0.1 percent and 0.9 percent, respectively. No COVID-19 impact is assumed beginning in FY 2026-27.

As shown, CV transactions are actually assumed to increase after FY 2019-20, while CV revenue is expected to be negatively impacted during the entire COVID-19 period. This is due to a combination of shorter, more frequent, CV trips, as well as a shift to smaller trucks during the pandemic. Both the shorter trip length and smaller vehicle class would result in lower CV toll revenue in spite of slightly more CV transactions.



Table 17 Estimated Annual Transactions and Gross Toll Revenue COVID Impact (1) Total System Pennsylvania Turnpike Commission

Traffic and Toll Revenue in Thousands

		Annual Traffic	;	Annua	Gross Toll Re	evenue
Fiscal	Passenger	Commercial	Total	Passenger	Commercial	Total
Year (2)	Cars	Vehicles	Vehicles	Cars	Vehicles	Vehicles
		Annual	Traffic and Gro	ss Toll Revenue	Impacts	
2018-19 (3,4,5)	\$0	\$0	\$0	\$0	\$0	\$0
2019-20 (3,6,7)	(21,072)	(780)	(21,852)	(114,658)	(27,543)	(142,201)
2020-21 (8,9,10,11,12,13	(32,420)	2,236	(30,184)	(232,121)	(21,844)	(253,965)
2021-22 (13,14)	(12,497)	1,084	(11,413)	(125,867)	(16,262)	(142,129)
2022-23 (13)	(8,121)	489	(7,632)	(83,734)	(10,689)	(94,422)
2023-24 (13)	(6,484)	257	(6,227)	(62,272)	(8,581)	(70,853)
2024-25 (13)	(3,828)	183	(3,645)	(40,622)	(5,649)	(46,271)
2025-26 (13)	(486)	180	(306)	(16,282)	(2,222)	(18,504)
2026-27	0	0	0	0	0	0
		Percent Impa	cts on Annual 1	raffic and Gross	Toll Revenue	
2018-19 (3,4,5)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2019-20 (3,6,7)	(12.2)	(2.6)	(10.7)	(14.4)	(4.3)	(9.9)
2020-21 (8,9,10,11,12,13	(19.0)	7.5	(15.1)	(27.7)	(3.3)	(16.9)
2021-22 (13,14)	(7.3)	3.6	(5.7)	(13.8)	(2.3)	(8.7)
2022-23 (13)	(4.7)	1.6	(3.7)	(8.7)	(1.4)	(5.5)
2023-24 (13)	(3.7)	0.8	(3.0)	(6.2)	(1.1)	(3.9)
2024-25 (13)	(2.1)	0.6	(1.7)	(3.8)	(0.7)	(2.4)
2025-26 (13)	(0.3)	0.6	(0.1)	(1.4)	(0.2)	(0.9)
2026-27	0	0	0	0	0	0

⁽¹⁾ Annual toll rate increases are implemented on or about January 1st of each year.

⁽²⁾ PTC fiscal year ends May 31.

⁽³⁾ Reflects actual traffic and revenue experience.

⁽⁴⁾ The Findlay Connector converted to AET in early June 2018.

⁽⁵⁾ The partial I-95 Interchange (Stage 1) opened in September 2018.

⁽⁶⁾ AKH and Gateway converted to AET at the end of October 2019.

⁽⁷⁾ Cash collection on Ticket System suspended and converted to AET on March 16, 2020.

⁽⁸⁾ Reflects actual traffic and revenue experience through March 31, 2021.

⁽⁹⁾ Mon-Fayette Expressway converted to AET on June 11, 2020.

⁽¹⁰⁾ Reflects actual experience through March 2021.

⁽¹¹⁾ Reflects Ticket System and PA 43 45% cash surcharge effective on January 3, 2021.

⁽¹²⁾ Reflects 6% Systemwide toll increase and 15% discount to registered video customers effective January 3, 2021.

⁽¹³⁾ Reflects COVID-19 related recessionary impacts through FY 2025-26.

⁽¹⁴⁾ Reflects opening of Southern Beltway between US 22 and I-79 beginning in January 2022.



Estimated Traffic and Gross Toll Revenue

Updated traffic and gross toll revenue estimates were developed through FY 2049-50 incorporating the following changes into the forecast. All these changes were described in previous sections.

- Actual traffic and revenue experience through March 2021 (Tables 3-12);
- Revised estimates of E-ZPass penetration rates (Table 14); and
- Updated impacts related to COVID-19 (Table 17).

Other assumptions remain unchanged from the 2020 6-Month Update, including:

- Future toll increase assumptions (Table 13);
- Structure of the CV discount program; and
- Long-range economic indicators.

It should be noted that the underlying baseline traffic and gross toll revenue forecasts (i.e., excluding the estimated negative impacts of COVID-19) remain unchanged from those in the 2020 6-Month Update. All revisions to the current traffic and gross toll revenue estimates are based on the revised COVID-19 impacts show in Table 17.

Table 18 shows the total traffic and toll revenue for the Ticket System only. Data for FY 2018-19 and FY 2019-20 reflect a full year of actual experience and FY 2020-21 includes ten months of actual experience (through March 2021). Total toll transactions increase from 151.6 million to 186.6 million over the period shown in Table 18, an average annual increase of 0.7 percent. Gross toll revenue increases from \$1.2 billion to \$4.4 billion by FY 2049-50. This amounts to an average annual increase of 4.4 percent, reflecting the impact of normal growth plus the annual rate adjustments.

The same information is shown for the Barrier System in **Table 19**. Total annual toll transactions are estimated to grow from 51.5 million to 72.7 million over the period shown, an average rate of 1.1 percent. New toll transactions from the opening of the complete Southern Beltway in January 2022 contribute to total barrier growth rates. Barrier System total revenue is estimated to increase from \$184.4 million to \$738.0 million over the same period, an annual rate of 4.6 percent, reflecting normal growth plus annual rate adjustments.



Table 18 Estimated Annual Transactions and Gross Toll Revenue (1) Ticket System Pennsylvania Turnpike Commission

Traffic and Toll Revenue in Thousands

			Annual Traffic		Annua	I Gross Toll Re	venue
Fiscal	•	Passenger	Commercial	Total	Passenger	Commercial	Total
Year	(2)	Cars	Vehicles	Vehicles	Cars	Vehicles	Vehicles
2018-19	(3,4)	129,559	22,020	151,579	\$626,685	\$524,309	\$1,150,994
2019-20	(3,5)	112,482	21,670	134,151	571,829	529,718	1,101,547
2020-21	(6,7,8,9)	100,773	24,171	124,944	494,423	563,658	1,058,081
2021-22	(9)	114,850	23,161	138,010	652,449	613,129	1,265,577
2022-23	(9)	118,681	22,788	141,469	726,503	653,699	1,380,203
2023-24	(9)	120,471	22,798	143,269	788,203	693,620	1,481,823
2024-25	(9)	123,711	22,945	146,656	856,185	736,544	1,592,729
2025-26	(9)	127,794	23,180	150,973	927,362	779,639	1,707,001
2026-27		130,942	23,416	154,358	986,717	817,147	1,803,863
2027-28		132,408	23,610	156,019	1,028,247	849,195	1,877,442
2028-29		133,841	23,835	157,676	1,067,546	881,907	1,949,453
2029-30		135,245	24,109	159,354	1,108,812	918,773	2,027,584
2030-31		136,618	24,385	161,002	1,153,319	957,129	2,110,448
2031-32		137,978	24,659	162,637	1,200,362	996,949	2,197,310
2032-33		139,324	24,934	164,258	1,249,084	1,038,282	2,287,366
2033-34		140,624	25,208	165,832	1,299,236	1,081,191	2,380,427
2034-35		141,885	25,482	167,367	1,350,921	1,125,745	2,476,666
2035-36		143,111	25,757	168,868	1,404,199	1,172,012	2,576,211
2036-37		144,315	26,026	170,341	1,459,264	1,219,787	2,679,051
2037-38		145,439	26,288	171,727	1,515,549	1,268,999	2,784,547
2038-39		146,525	26,550	173,074	1,573,491	1,320,086	2,893,577
2039-40		147,594	26,812	174,406	1,633,389	1,373,123	3,006,511
2040-41		148,644	27,075	175,719	1,695,243	1,428,191	3,123,434
2041-42		149,668	27,339	177,007	1,759,069	1,485,375	3,244,444
2042-43		150,661	27,604	178,265	1,824,831	1,544,753	3,369,585
2043-44		151,629	27,870	179,499	1,892,656	1,606,420	3,499,076
2044-45		152,573	28,136	180,709	1,962,612	1,670,457	3,633,069
2045-46		153,490	28,404	181,894	2,034,725	1,736,950	3,771,675
2046-47		154,393	28,673	183,067	2,109,231	1,806,002	3,915,234
2047-48		155,285	28,944	184,229	2,186,235	1,877,723	4,063,959
2048-49		156,183	29,217	185,399	2,266,051	1,952,292	4,218,343
2049-50		157,085	29,492	186,577	2,348,780	2,029,822	4,378,603
		•	•	•			

⁽¹⁾ Annual toll rate increases are implemented on or about January 1st of each year.

⁽²⁾ PTC fiscal year ends May 31.

⁽³⁾ Reflects actual traffic and revenue experience.

⁽⁴⁾ The partial I-95 Interchange (Stage 1) opened in September 2018.

⁽⁵⁾ Cash collection on Ticket System suspended and converted to AET on March 16, 2020.

⁽⁶⁾ Reflects actual experience through March 2021.

⁽⁷⁾ Reflects Ticket System 45% video surcharge effective on Jan 3, 2021.

 $^{(8) \} Reflects \ 6\% \ Systemwide \ toll \ increase \ and \ 15\% \ discount \ to \ registered \ video \ customers \ effective \ January \ 3, 2021.$

⁽⁹⁾ Reflects COVID-19 related recessionary impacts through FY 2025-26.



Table 19 Estimated Annual Transactions and Gross Toll Revenue (1) Barrier Systems

Pennsylvania Turnpike Commission

Traffic and Toll Revenue in Thousands

			Annual Traffic		Annua	I Gross Toll Rev	venue
Fiscal		Passenger	Commercial	Total	Passenger	Commercial	Total
Year	_(2)	Cars	Vehicles	Vehicles	Cars	Vehicles	Vehicles
2018-19	/2.4.E\	43,870	7,605	51,475	\$113,893	\$70,498	\$184,392
2018-19	(3,4,5)	39,819	7,503	47,418	112,089	370,498 75,925	188,014
2019-20	(7,8,9,10,11)	37,283	8,017	45,300	111,292	83,805	195,097
2021-22	(11,12)	43,346	8,323	51,669	134,118	88,300	222,418
2022-23	(11)	47,383	8,945	56,329	147,368	95,044	242,412
2023-24	(11)	49,007	9,099	58,106	158,770	99,968	258,739
2024-25	(11)	50,612	9,282	59,894	170,705	105,846	276,551
2025-26	(11)	52,121	9,423	61,544	182,961	111,585	294,546
2026-27		53,293	9,538	62,831	193,592	116,753	310,345
2027-28		53,788	9,605	63,393	201,911	121,537	323,449
2028-29		54,281	9,683	63,964	209,923	126,359	336,283
2029-30		54,749	9,778	64,527	218,149	131,684	349,834
2030-31		55,182	9,871	65,053	226,584	137,204	363,788
2031-32		55,581	9,964	65,545	235,268	142,930	378,197
2032-33		55,966	10,056	66,021	244,279	148,867	393,145
2033-34		56,331	10,147	66,478	253,607	155,027	408,634
2034-35		56,687	10,238	66,925	263,220	161,400	424,620
2035-36		57,033	10,329	67,362	273,127	167,984	441,111
2036-37		57,370	10,419	67,789	283,346	174,790	458,136
2037-38		57,691	10,508	68,199	293,807	181,813	475,621
2038-39		58,009	10,596	68,605	304,575	189,105	493,680
2039-40		58,326	10,685	69,011	315,709	196,676	512,385
2040-41		58,640	10,773	69,413	327,207	204,535	531,743
2041-42		58,945	10,862	69,807	339,059	212,692	551,750
2042-43		59,241	10,950	70,190	351,257	221,156	572,413
2043-44		59,528	11,037	70,565	363,823	229,940	593,763
2044-45		59,808	11,125	70,933	376,768	239,057	615,825
2045-46		60,078	11,212	71,290	390,096	248,517	638,613
2046-47		60,341	11,299	71,640	403,834	258,334	662,168
2047-48		60,599	11,386	71,985	418,006	268,524	686,530
2048-49		60,857	11,474	72,331	432,675	279,116	711,791
2049-50		61,117	11,562	72,679	447,860	290,125	737,985

⁽¹⁾ Annual toll rate increases are implemented on or about January 1st of each year.

⁽²⁾ PTC fiscal year ends May 31.

⁽³⁾ Reflects actual traffic and revenue experience.

⁽⁴⁾ The Findlay Connector converted to AET in early June 2018.

⁽⁵⁾ The partial I-95 Interchange (Stage 1) opened in September 2018.

⁽⁶⁾ AKH and Gateway converted to AET at the end of October 2019.(7) Mon-Fayette Expressway converted to AET on June 11, 2020.

⁽⁸⁾ Reflects actual experience through March 2021.

⁽⁹⁾ Reflects PA 43 45% video surcharge effective on January 3, 2021.

⁽¹⁰⁾ Reflects 6% Systemwide toll increase and 15% discount to registered video customers effective January 3, 2021.

⁽¹¹⁾ Reflects COVID-19 related recessionary impacts through FY 2025-26.

⁽¹²⁾ Reflects opening of Southern Beltway between US 22 and I-79 beginning in January 2022.



Table 20 presents total combined Ticket and Barrier System transactions and gross toll revenue and also reflects estimated toll discounts and adjustments. The vast majority of the discounts and adjustments result from commercial account toll adjustments due to the Turnpike's volume discount program. The volume discount program allows for a 3.0-percent discount to be provided to accounts that accrue \$20,000 or more in monthly tolls. Discounts and adjustments shown in Table 20 assume no further changes to the post-paid commercial volume discount program during the forecast period. Actual discounts and adjustments amounted to 1.65 percent of CV toll revenue in FY 2019-20. It has been increasing very slightly over time. CDM Smith's forecasts assume that the adjustment gradually increases until it equals approximately 2.17 percent of the CV gross toll revenue in FY 2029-30 and remains at that level throughout the remainder of the forecast.

As shown in Table 20, total toll transactions are expected to increase from 203.1 million to 259.3 million over the period shown. This amounts to an average annual growth rate of 0.8 percent. Total net toll revenue is estimated to grow from approximately \$1.3 billion in FY 2018-19 to \$5.1 billion by FY 2049-50. This reflects an average annual growth rate in gross toll revenue of 4.4 percent. Again, this includes the impact of normal growth plus annual toll rate adjustments.

Table 21 provides a comparison of the current traffic and net toll revenue forecast with the forecast developed as part of the 2020 6-Month Update. As shown, the revised total toll transactions are slightly more than those of the 2020 6-Month Update from FY 2020-21 through FY 2024-25. This is due to five more months of actual experience. For the period between FY 2025-26 and FY 2026-27, the current study assumes a slightly higher growth rate compared to the 2020 6-Month Update, resulting in 0.1 percent higher volumes. This 0.1 percent increase in estimated transactions is due to revisions to the forecast related to changes to PTC's AET system that will cause some non-revenue transactions to be captured that were not previously. Because these additional transactions are non-revenue, they have no impact on toll revenue estimates. After FY 2026-27 the growth rates between the two studies are identical, thus the 0.1 percent differential remains constant throughout the remainder of the forecast period.

Similarly, due to an additional five months of actual data and revised assumptions regarding COVID-19 impacts, annual net toll revenue is forecast to be somewhat lower in most years through FY 2025-26, with FY 2022-23 having very slightly higher estimated revenue. The largest difference occurs in FY 2021-22, in which revenue is estimated to be 0.6 percent lower than in the previous forecast. These negative impact differences generally decrease until FY 2026-27, at which point there is no difference from the previous forecast.



Table 20 Estimated Annual Transactions and Toll Revenue (1) Total System Pennsylvania Turnpike Commission

Traffic and Toll Revenue in Thousands

		Annual Traffic			Annual Gross Toll Revenue			Discounts	
Fiscal	•	Passenger	Commercial	Total	Passenger	Commercial	Total	and	Net
Year	(2)	Cars	Vehicles	Vehicles	Cars	Vehicles	Vehicles	Adjustments	Toll Revenue
2018-19	(3,4,5)	173,429	29,625	203,054	\$740,578	\$594,808	\$1,335,385	(\$8,349)	\$1,327,037
2019-20	(3,6)	152,301	29,269	181,570	683,918	605,642	1,289,561	(9,972)	1,279,588
2020-21	(7,8,9,10,11,12)	138,056	32,188	170,245	605,715	647,463	1,253,178	(11,654)	1,241,524
2021-22	(12,13)	158,196	31,484	189,679	786,567	701,429	1,487,996	(13,327)	1,474,668
2022-23	(12)	166,064	31,733	197,797	873,872	748,744	1,622,615	(14,601)	1,608,015
2023-24	(12)	169,477	31,898	201,375	946,973	793,589	1,740,562	(15,872)	1,724,690
2024-25	(12)	174,323	32,227	206,550	1,026,889	842,390	1,869,280	(17,269)	1,852,011
2025-26	(12)	179,915	32,602	212,517	1,110,323	891,224	2,001,547	(18,493)	1,983,054
2026-27		184,235	32,954	217,189	1,180,309	933,900	2,114,209	(19,612)	2,094,597
2027-28		186,196	33,215	219,411	1,230,158	970,733	2,200,891	(20,628)	2,180,262
2028-29		188,121	33,519	221,640	1,277,470	1,008,266	2,285,736	(21,678)	2,264,058
2029-30		189,994	33,887	223,881	1,326,961	1,050,457	2,377,418	(22,847)	2,354,571
2030-31		191,800	34,256	226,055	1,379,903	1,094,334	2,474,236	(23,802)	2,450,434
2031-32		193,559	34,623	228,182	1,435,629	1,139,878	2,575,508	(24,792)	2,550,715
2032-33		195,289	34,989	230,279	1,493,362	1,187,149	2,680,511	(25,820)	2,654,690
2033-34		196,955	35,355	232,310	1,552,843	1,236,218	2,789,061	(26,888)	2,762,173
2034-35		198,572	35,721	234,292	1,614,141	1,287,145	2,901,286	(27,995)	2,873,291
2035-36		200,144	36,086	236,230	1,677,326	1,339,996	3,017,322	(29,145)	2,988,177
2036-37		201,685	36,446	238,130	1,742,609	1,394,577	3,137,187	(30,332)	3,106,855
2037-38		203,131	36,795	239,926	1,809,356	1,450,812	3,260,168	(31,555)	3,228,613
2038-39		204,534	37,146	241,679	1,878,067	1,509,191	3,387,257	(32,825)	3,354,433
2039-40		205,920	37,497	243,417	1,949,098	1,569,798	3,518,896	(34,143)	3,484,753
2040-41		207,283	37,848	245,131	2,022,450	1,632,726	3,655,177	(35,512)	3,619,665
2041-42		208,613	38,200	246,814	2,098,128	1,698,067	3,796,195	(36,933)	3,759,262
2042-43		209,902	38,553	248,455	2,176,088	1,765,909	3,941,997	(38,409)	3,903,589
2043-44		211,157	38,907	250,064	2,256,479	1,836,360	4,092,839	(39,941)	4,052,898
2044-45		212,380	39,261	251,642	2,339,380	1,909,514	4,248,894	(41,532)	4,207,362
2045-46		213,568	39,616	253,184	2,424,821	1,985,467	4,410,288	(43,184)	4,367,104
2046-47		214,735	39,972	254,707	2,513,065	2,064,337	4,577,401	(44,899)	4,532,502
2047-48		215,884	40,330	256,214	2,604,241	2,146,247	4,750,488	(46,681)	4,703,807
2048-49		217,040	40,690	257,730	2,698,726	2,231,408	4,930,133	(48,533)	4,881,600
2049-50		218,202	41,054	259,256	2,796,638	2,319,947	5,116,586	(50,459)	5,066,127

⁽¹⁾ Annual toll rate increases are implemented on or about January 1st of each year.

⁽²⁾ PTC fiscal year ends May 31.

⁽³⁾ Reflects actual traffic and revenue experience.

⁽⁴⁾ The Findlay Connector converted to AET in early June 2018.

⁽⁵⁾ The partial I-95 Interchange (Stage 1) opened in September 2018.

⁽⁶⁾ AKH and Gateway converted to AET at the end of October 2019.

⁽⁷⁾ Cash collection on Ticket System suspended and converted to AET on March 16, 2020.

⁽⁸⁾ Mon-Fayette Expressway converted to AET on June 11, 2020.

⁽⁹⁾ Reflects actual experience through March 2021.

⁽¹⁰⁾ Reflects Ticket System and PA 43 45% video surcharge effective on January 3, 2021.

 $^{(11) \} Reflects \ 6\% \ Systemwide \ toll \ increase \ and \ 15\% \ discount \ to \ registered \ video \ customers \ effective \ January \ 3, \ 2021.$

⁽¹²⁾ Reflects COVID-19 related recessionary impacts through FY 2025-26.

⁽¹³⁾ Reflects opening of Southern Beltway between US 22 and I-79 beginning in January 2022.



Table 21 Comparison of New Traffic and Revenue Estimates with those from the 2020 Bring Down Letter Total System Pennsylvania Turnpike

Traffic and Toll Revenue in Thousands

	Total	Total Annual Transactions			Annual Net Toll Revenue			
Fiscal	Current	2020 6-Month	Percent	Current	2020 6-Month	Percent		
Year (1)	Estimates (2)	Update (3)	Difference	Estimates (2)	Update (3)	Difference		
2018-19	203,054	203,054	0.0	\$1,327,037	\$1,327,037	0.0		
2019-20	181,570	181,570	0.0	1,279,588	1,279,588	0.0		
2020-21	170,245	169,894	0.2	1,241,524	1,243,503	(0.2)		
2021-22	189,679	187,424	1.2	1,474,668	1,483,734	(0.6)		
2022-23	197,797	196,697	0.6	1,608,015	1,607,659	0.0		
2023-24	201,375	200,826	0.3	1,724,690	1,727,470	(0.2)		
2024-25	206,550	206,199	0.2	1,852,011	1,853,586	(0.1)		
2025-26	212,517	212,291	0.1	1,983,054	1,983,685	(0.0)		
2026-27	217,189	217,039	0.1	2,094,597	2,094,597	0.0		
2027-28	219,411	219,273	0.1	2,180,262	2,180,262	0.0		
2028-29	221,640	221,510	0.1	2,264,058	2,264,058	0.0		
2029-30	223,881	223,753	0.1	2,354,571	2,354,571	0.0		
2030-31	226,055	225,926	0.1	2,450,434	2,450,434	0.0		
2031-32	228,182	228,052	0.1	2,550,715	2,550,715	0.0		
2032-33	230,279	230,147	0.1	2,654,690	2,654,690	0.0		
2033-34	232,310	232,177	0.1	2,762,173	2,762,173	0.0		
2034-35	234,292	234,158	0.1	2,873,291	2,873,291	0.0		
2035-36	236,230	236,094	0.1	2,988,177	2,988,177	0.0		
2036-37	238,130	237,993	0.1	3,106,855	3,106,855	0.0		
2037-38	239,926	239,788	0.1	3,228,613	3,228,613	0.0		
2038-39	241,679	241,540	0.1	3,354,433	3,354,433	0.0		
2039-40	243,417	243,276	0.1	3,484,753	3,484,753	0.0		
2040-41	245,131	244,989	0.1	3,619,665	3,619,665	0.0		
2041-42	246,814	246,671	0.1	3,759,262	3,759,262	0.0		
2042-43	248,455	248,311	0.1	3,903,589	3,903,589	0.0		
2043-44	250,064	249,919	0.1	4,052,898	4,052,898	0.0		
2044-45	251,642	251,495	0.1	4,207,362	4,207,362	0.0		
2045-46	253,184	253,036	0.1	4,367,104	4,367,104	0.0		
2046-47	254,707	254,558	0.1	4,532,502	4,532,502	0.0		
2047-48	256,214	256,064	0.1	4,703,807	4,703,807	0.0		
2048-49	257,730	257,579	0.1	4,881,600	4,881,600	0.0		
2049-50	259,256	259,103	0.1	5,066,127	5,066,127	0.0		

⁽¹⁾ PTC fiscal year ends May 31.

⁽²⁾ Reflects actual traffic and revenue experience through March 2021.

⁽³⁾ Reflects actual traffic and revenue experience through October 2020.



Table 22 summarizes the full net revenue forecast, including written off bad debt expenses. Now that the PTC system is fully AET, there is some amount of video tolls that will be uncollectable and written off as bad debt expense, thereby subtracting from net toll revenue. As transactions are estimated to grow each year from, so too does bad debt expense. In FY 2021-22, the first full year of AET operation, bad debt expense is estimated to be \$88.3 million, growing to \$208.4 million in FY 2049-50. Total net toll revenue minus the video bad debt expense is estimated to grow from approximately \$1.3 billion in FY 2018-19 to \$4.9 billion by FY 2049-50.



Table 22 Total System: Estimated Annual Video Revenue Leakage (1) Pennsylvania Turnpike Commission

Traffic and Toll Revenue in Thousands

Estimated

			Estillateu			
		Net	Video Revenue	Net Toll Revenue Minus		
Fiscal Year (2)		Toll Revenue	Bad Debt Expense	Video Bad Debt Expense		
2018-19	(3,4,5)	\$1,327,037	(\$4,455)	\$1,322,581		
2019-20	(3,6)	1,279,588	(6,474)	1,273,114		
2020-21	(7,8,9,10,11,12)	1,241,524	(49,465)	1,192,059		
2021-22	(12,13)	1,474,668	(88,300)	1,386,368		
2022-23	(12)	1,608,015	(90,682)	1,517,333		
2023-24	(12)	1,724,690	(92,613)	1,632,077		
2024-25	(12)	1,852,011	(94,962)	1,757,049		
2025-26	(12)	1,983,054	(97,272)	1,885,782		
2026-27		2,094,597	(98,421)	1,996,176		
2027-28		2,180,262	(98,343)	2,081,919		
2028-29		2,264,058	(98,307)	2,165,751		
2029-30		2,354,571	(99,692)	2,254,878		
2030-31		2,450,434	(102,778)	2,347,656		
2031-32		2,550,715	(106,712)	2,444,003		
2032-33		2,654,690	(110,834)	2,543,857		
2033-34		2,762,173	(115,140)	2,647,033		
2034-35		2,873,291	(119,614)	2,753,677		
2035-36		2,988,177	(124,258)	2,863,919		
2036-37		3,106,855	(129,059)	2,977,795		
2037-38		3,228,613	(133,992)	3,094,621		
2038-39		3,354,433	(139,101)	3,215,332		
2039-40		3,484,753	(144,388)	3,340,365		
2040-41		3,619,665	(149,855)	3,469,811		
2041-42		3,759,262	(155,502)	3,603,760		
2042-43		3,903,589	(161,328)	3,742,260		
2043-44		4,052,898	(167,345)	3,885,552		
2044-45		4,207,362	(173,559)	4,033,803		
2045-46		4,367,104	(179,973)	4,187,131		
2046-47		4,532,502	(186,605)	4,345,897		
2047-48		4,703,807	(193,465)	4,510,342		
2048-49		4,881,600	(200,778)	4,680,822		
2049-50		5,066,127	(208,367)	4,857,759		
2045-30		3,000,127	(200,307)	٠,٠٥٥, ١٥٥, ١		

⁽¹⁾ Annual toll rate increases are implemented on or about January 1st of each year.

⁽²⁾ PTC fiscal year ends May 31.

⁽³⁾ Reflects actual traffic and revenue experience.

⁽⁴⁾ The Findlay Connector converted to AET in early June 2018.

⁽⁵⁾ The partial I-95 Interchange (Stage 1) opened in September 2018.

⁽⁶⁾ AKH and Gateway converted to AET at the end of October 2019.

⁽⁷⁾ Cash collection on Ticket System suspended and converted to AET on March 16, 2020.

⁽⁸⁾ Mon-Fayette Expressway converted to AET on June 11, 2020.

⁽⁹⁾ Reflects actual experience through March 2021.

⁽¹⁰⁾ Reflects Ticket System and PA 43 45% video surcharge and 15% discount to registered video customers effective on January 3, 2021.

 $^{(11) \} Reflects \ 6\% \ Systemwide \ toll \ increase \ and \ 15\% \ discount \ to \ registered \ video \ customers \ effective \ January \ 3, \ 2021.$

⁽¹²⁾ Reflects COVID-19 related recessionary impacts through FY 2025-26.

⁽¹³⁾ Reflects opening of Southern Beltway between US 22 and I-79 beginning in January 2022.



Fiduciary Disclaimer

CDM Smith used currently-accepted professional practices and procedures in the development of the traffic and revenue estimates in this report. However, as with any forecast, it should be understood that differences between forecasted and actual results may occur, as caused by events and circumstances beyond the control of the forecasters. In formulating the estimates, CDM Smith reasonably relied upon the accuracy and completeness of information provided (both written and oral) by the Pennsylvania Turnpike Commission (PTC). CDM Smith also relied upon the reasonable assurances of independent parties and is not aware of any material facts that would make such information misleading.

CDM Smith made qualitative judgments related to several key variables in the development and analysis of the traffic and revenue estimates that must be considered as a whole; therefore, selecting portions of any individual result without consideration of the intent of the whole may create a misleading or incomplete view of the results and the underlying methodologies used to obtain the results. CDM Smith gives no opinion as to the value or merit of partial information extracted from this report.

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Sincerely,

Scott Allaire Vice President

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