

Preliminary Draft (April 12, 2019)

VMT forecast for port trucks based on 2017 EI VMT and Mercator growth factors

1. Cargo Forecast

1.1 Container Growth (TEUs)

	POLA	POLB	POLA+POLB Actual	Mercator Forecast
2017	9,343,193	7,544,508	16,887,701	16,979,123
2023				21,862,340
2031				29,432,980

1.2 Non-Container Growth Cargo (million tonnes)

	POLA	POLB	POLA+POLB Actual	Mercator Forecast *
2017				10.5
2023				11.1
2031				11.8

*Excluding liquid.

2. Truck VMT Forecast

2.1 VMT associated with container terminals (miles/year)

	POLA	POLB	POLA+POLB Actual	POLA+POLB Forecast
2017	204,881,267	161,260,009	366,141,276	366,141,276
2023				471,443,961
2031				634,698,781

2.2 VMT associated with non-container terminals (miles/year)

	POLA	POLB	POLA+POLB Actual	POLA+POLB Forecast
2017	15,444,009	8,294,762	23,738,771	23,738,771
2023				25,169,912
2031				26,782,786

2.3.1 VMT associated with ALL terminals (miles/year)

	POLA	POLB	POLA+POLB Actual	POLA+POLB Forecast
2017	220,325,276	169,554,771	389,880,047	389,880,047
2023				496,613,873
2031				661,481,567

2.3.2 VMT associated with ALL terminals (miles/day)

	POLA	POLB	POLA+POLB Actual	POLA+POLB Forecast
2017	706,171	543,445	1,249,616	1,249,616
2023				1,591,711
2031				2,120,133

Based on 312 days of terminal operation per year

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Projected Port Truck Emissions at the Ports of Long Angeles and Long Beach (tpd)

Calendar Year	Source	Population	VMT	NOx	PM10	PM2.5
2016	EMFAC2014 Default	12,696	1,736,556	14.75	0.06	0.06
	EMFAC2017 Default	11,883	1,317,202	9.90	0.06	0.05
	POLA+POLB		1,249,341	10.67	0.05	0.04
2017	EMFAC2014 Default	13,043	1,832,099	14.96	0.06	0.06
	EMFAC2017 Default	12,198	1,389,444	10.01	0.06	0.06
	POLA+POLB		1,299,600	8.71	0.06	0.05
2023	EMFAC2014 Default	15,313	2,517,620	8.81	0.02	0.02
	EMFAC2017 Default	14,304	1,906,701	7.26	0.04	0.04
	EMFAC2017 Forecast	11,941	1,591,711	6.06	0.04	0.04
2031	EMFAC2014 Default	17,468	3,681,923	12.13	0.03	0.03
	EMFAC2017 Default	15,671	2,773,698	10.26	0.07	0.06
	EMFAC2017 Forecast	11,979	2,120,133	7.84	0.05	0.05

Note:

- a) EMFAC2014 and EMFAC2017 data are annual average.
- b) POLA and POLB data include both on-road and on-terminal emissions, calculated from annual total tons based on 312 days of operation per year.
- c) EMFAC2017 Forecast is based on port truck projected VMT assuming E-Base growth scenario in the Mercator report.

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