

Los Angeles County Transit Operations

Select Operating Statistics

Bus/Light Rail/Heavy Rail

Measure M Taxpayer Oversight Committee

March 2021



Metro

Excellence in Service and Support

Measuring Transit Operations

Objective:

Create a baseline comparison of Los Angeles County Transit Operators, using National Transit Database (NTD) information, to identify and benchmark:

- Costs of Operations
- Service Delivery
- Statistical Measures of Cost and Service Efficiencies

Measuring Transit Operations

Modes of Operation include:

- Motorbus, Commuter Bus, Bus Rapid Transit = Bus Operations
- Light Rail
- Heavy Rail

Variables of Review include:

- Total Operating Costs per mode
- Service levels including Revenue Miles and Revenue Hours
- Unlink Passenger Trips and Passenger Miles
- Fare Revenues

To ensure consistency, NTD reported data serves as the basis for all measurements using FY19 (most recently available)

Measuring Transit Operations

Bus Operations:

16 Operators in Los Angeles County* provided services in FY19 that included:

- \$1,824.1M in Annual Operating Costs
- 11.1M Revenue Service Hours
- 366.9M Passenger Trips at an average cost of \$6.76 per trip

Cost per revenue hour vary significantly across operators from \$80 per hour up to \$205 with a countywide average of \$131 per revenue service hour.

Average Farebox Recovery across the County was 14.5% across all operators.

Metro Bus Operations is responsible for 74.6% of reported Bus Transit Trips



*Excludes Reduced Reporters included in FAP

Measuring Transit Operations

Light Rail Operations:

Of 22 Light Rail Operators nationwide LA Metro is the largest in the United States.

Metro Light Rail:

- \$446.4M in Annual Operating Costs
- 886.5K Revenue Service Hours
- 59.7M Passenger Trips at an average cost of \$7.48 per trip

Average Farebox Recovery across the nation was 21% and Metro Light Rail is equal to 10%

Metro Light Rail Operations are responsible for 12.7% of reported Los Angeles County Transit Trips



Measuring Transit Operations

Heavy Rail Operations:

Of 14 Heavy Rail Operators nationwide LA Metro ranks 9th based on the number of passengers carried.

Metro Heavy Rail:

- \$168.4M in Annual Operating Costs
- 313.7K Revenue Service Hours
- 43.1M Passenger Trips at an average cost of \$3.94 per trip with the 2nd highest number of Trips per Revenue Service Hour.

Average Farebox Recovery across the nation was 43% and Metro Heavy Rail is equal to 19% - the highest performer of Metro Transit Operations

Metro Heavy Rail Operations are responsible for 9.2% of reported Los Angeles County Transit Trips



Next Steps

- Work with the Committee to identify additional benchmark data to fulfill Measure M Ordinance Oversight responsibilities
- Provide annually updated benchmark information.

**Table 1
Transit Operators in Los Angeles County - Select FY19 Operating Data**

Agency	Operating Expenses	Vehicle Service Miles	Vehicle Service Hours	Passenger Miles	Unlinked Passenger Trips	Fares
Antelope Valley Transit Authority	\$ 22,913,794	3,245,087	185,588	30,178,482	2,301,868	\$ 4,706,264
City of Commerce	3,735,370	376,920	33,907	2,018,221	445,353	-
City of Culver City	23,608,735	1,656,768	169,841	14,813,937	4,600,876	2,908,934
City of Gardena	22,418,033	1,691,303	136,619	11,124,485	2,920,856	2,235,072
City of Glendale	7,131,483	718,727	80,326	3,096,640	1,411,254	833,072
City of Los Angeles	82,288,130	6,993,254	704,291	58,218,649	19,030,179	10,591,005
City of Montebello	27,919,966	2,357,424	235,654	20,986,160	5,258,035	3,934,508
City of Norwalk	12,674,086	1,054,992	95,026	5,994,510	1,427,804	1,246,966
City of Pasadena	5,678,993	726,888	70,816	2,611,781	1,489,376	687,525
City of Redondo Beach	3,247,070	386,315	33,948	1,272,305	353,418	316,054
City of Santa Clarita	20,144,899	2,919,922	170,493	19,637,637	2,565,484	3,159,143
City of Santa Monica	81,169,730	4,978,667	440,431	45,792,187	12,536,069	11,413,768
City of Torrance	34,298,864	2,096,764	167,395	18,061,888	3,595,705	2,432,212
Foothill Transit	95,928,313	12,343,588	858,500	106,192,124	12,053,307	16,079,596
Long Beach Transit	92,540,008	7,063,385	725,349	75,502,172	23,210,032	13,790,289
LA Metro (Bus Operations)	\$ 1,288,440,283	73,091,103	6,948,117	1,149,053,457	273,747,759	\$ 190,876,135
LA Metro (Light Rail)	\$ 446,268,668	17,757,242	866,517	462,756,222	59,655,365	\$ 42,986,478
LA Metro (Heavy Rail)	\$ 168,453,369	6,874,200	313,697	207,664,947	43,074,277	\$ 31,426,577

Table 2
Selected Measures of Service Efficiencies - Bus Operations

Agency	Efficiency of the Costs of Service				Effectiveness of Service Provided									
	Oper Exp per Veh Rev Mile	Rank	Oper Exp per Veh Rev Hour	Rank	Oper Exp per Psngr Mile	Rank	Oper Exp per Trip	Rank	Trips per Veh Rev Mile	Rank	Trips per Veh Rev Hour	Rank	Farebox Recovery	Rank
City of Santa Clarita	\$ 6.90	1	\$ 118.16	7	\$ 1.03	3	\$ 7.85	9	0.88	14	15.05	10	16%	3
Antelope Valley Transit Authority	7.06	2	123.47	9	0.76	1	9.95	15	0.71	15	12.40	14	21%	1
Foothill Transit	7.77	3	111.74	5	0.90	2	7.96	10	0.98	12	14.04	12	17%	2
City of Pasadena	7.81	4	80.19	1	2.17	13	3.81	1	2.05	6	21.03	8	12%	9
City of Redondo Beach	8.41	5	95.65	3	2.55	15	9.19	13	0.91	13	10.41	15	10%	13
City of Commerce	9.91	6	110.17	4	1.85	9	8.39	11	1.18	11	13.13	13	0%	15
City of Glendale	9.92	7	88.78	2	2.30	14	5.05	4	1.96	7	17.57	9	12%	10
City of Los Angeles	11.77	8	116.84	6	1.41	6	4.32	3	2.72	3	27.02	4	13%	7
City of Montebello	11.84	9	118.48	8	1.33	5	5.31	6	2.23	5	22.31	5	14%	5
City of Norwalk	12.01	10	133.37	11	2.11	12	8.88	12	1.35	10	15.03	11	10%	12
Long Beach Transit	13.10	11	127.58	10	1.23	4	3.99	2	3.29	1	32.00	1	15%	4
City of Gardena	13.25	12	164.09	13	2.02	11	7.68	8	1.73	8	21.38	7	10%	11
City of Culver City	14.25	13	139.00	12	1.59	7	5.13	5	2.78	2	27.09	3	12%	8
City of Santa Monica	16.30	14	184.30	14	1.77	8	6.47	7	2.52	4	28.46	2	14%	6
City of Torrance	16.36	15	204.90	15	1.90	10	9.54	14	1.71	9	21.48	6	7%	14
Average	\$ 11.11		\$ 127.78		\$ 1.66		\$ 6.90		\$ 1.80		\$ 19.89		12%	
LA Metro (Bus Operations)	17.63		185.44		1.12		4.71		3.75		39.40		15%	
Top 5 (Excl LA Metro)	18.75		178.51		1.49		4.29		4.37		41.60		31%	

Table 3
Light Rail Transit Operators - Select FY19 Operating Data

Agency	Operating Expenses	Vehicle Service Miles	Vehicle Service Hours	Passenger Miles	Unlinked Passenger Trips	Fares
LA Metro	\$ 446,368,668	17,757,242	866,517	462,756,222	59,655,365	\$ 42,986,478
City and County of San Francisco	\$ 210,499,148	5,565,605	587,846	136,469,594	49,795,740	\$ 39,254,151
Dallas Area Rapid Transit	194,102,627	10,303,973	499,670	227,090,304	28,335,785	23,346,804
Massachusetts Bay Transportation Authority	192,376,108	5,698,854	658,603	137,719,112	56,975,564	81,704,871
Tri-County Metropolitan Transportation District of Oregon	166,170,441	9,047,431	636,340	207,967,836	38,867,576	45,634,079
Denver Regional Transportation District	134,501,571	14,053,945	797,784	178,266,835	24,585,300	38,362,200
Central Puget Sound Regional Transit Authority	131,216,111	5,410,211	265,566	163,463,700	24,761,684	43,602,193
Santa Clara Valley Transportation Authority	127,886,958	3,539,847	223,054	49,376,217	8,437,926	8,872,457
New Jersey Transit Corporation	124,151,040	2,613,657	178,513	73,704,102	21,550,401	20,886,057
San Diego Metropolitan Transit System	86,423,252	8,820,704	487,132	219,453,215	37,293,757	42,005,525
Bi-State Development Agency of the Missouri-Illinois Metropolitan District	85,552,894	6,113,628	260,968	89,068,641	13,150,909	13,845,771
Metropolitan Transit Authority of Harris County, Texas	83,097,579	3,482,906	291,188	52,243,069	18,556,589	4,774,238
Metro Transit	76,787,096	5,254,481	422,812	100,499,405	25,299,442	27,240,856
Sacramento Regional Transit District	76,359,832	4,343,974	243,241	63,439,869	9,980,850	12,035,431
Utah Transit Authority	71,152,656	6,569,208	365,639	83,098,538	17,128,008	17,630,129
Port Authority of Allegheny County	71,102,939	2,177,387	168,173	28,888,028	7,162,790	7,777,491
Valley Metro Rail, Inc.	48,417,272	3,351,956	219,134	108,918,663	15,084,312	11,071,504
Maryland Transit Administration	47,917,891	3,019,591	154,918	39,816,955	6,966,072	6,146,500
City of Charlotte North Carolina	35,607,528	2,308,145	141,176	45,024,652	8,006,852	7,643,956
Niagara Frontier Transportation Authority	26,660,853	921,826	81,581	11,971,472	4,485,084	4,955,205
The Greater Cleveland Regional Transit Authority	14,906,274	678,107	48,204	8,974,467	1,484,863	2,549,863
Transportation District Commission of Hampton Roads	11,662,495	385,469	29,388	4,798,117	1,428,956	1,581,495

Table 4
Heavy Rail Transit Operators - Select FY19 Operating Data

Agency	Operating Expenses	Vehicle Service Miles	Vehicle Service Hours	Passenger Miles	Unlinked Passenger Trips	Fares
LA Metro	\$ 168,453,369	6,874,200	313,697	207,664,947	43,074,277	\$ 31,426,577
MTA New York City Transit	\$ 5,206,727,193	354,616,371	19,430,373	10,462,782,577	2,712,521,697	\$ 3,643,213,720
Washington Metropolitan Area Transit Authority	1,112,675,403	85,106,645	3,667,616	1,313,511,151	228,974,810	533,518,013
San Francisco Bay Area Rapid Transit District	651,029,953	77,986,155	2,225,056	1,756,364,558	125,105,460	469,865,645
Chicago Transit Authority	623,416,178	73,574,040	4,065,132	1,378,128,437	218,467,141	309,516,440
Port Authority Trans-Hudson Corporation	457,515,883	13,319,661	979,645	447,020,668	90,275,181	197,809,403
Massachusetts Bay Transportation Authority	304,267,766	23,062,016	1,524,626	572,046,325	160,351,814	224,415,154
Metropolitan Atlanta Rapid Transit Authority	206,202,856	22,511,413	845,478	450,023,139	65,217,325	77,048,839
Southeastern Pennsylvania Transportation Authority	200,486,444	17,078,643	933,376	399,537,395	90,754,189	113,235,243
County of Miami-Dade	94,181,839	7,957,230	359,148	136,546,053	18,494,501	15,739,393
Maryland Transit Administration	77,925,584	4,380,269	171,181	32,470,539	7,275,335	10,449,300
Port Authority Transit Corporation	58,223,846	4,943,154	159,090	99,332,879	11,107,474	27,243,638
Staten Island Rapid Transit Operating Authority	57,623,801	2,545,007	170,424	48,222,657	7,731,849	8,485,089
The Greater Cleveland Regional Transit Authority	45,434,279	2,488,976	132,297	36,529,680	5,666,706	7,377,403

Table 5
Selected Measures of Service Efficiencies - Light Rail

Agency	Efficiency of the Costs of Service				Effectiveness of Service Provided										
	Oper Exp per Veh Rev Mile		Oper Exp per Veh Rev Hour		Oper Exp per Psngr Mile		Oper Exp per Trip		Trips per Veh Rev Mile		Trips per Veh Rev Hour		Farebox Recovery		
	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Rank	
LA Metro	\$ 25.14	15	\$ 515.13	20	\$ 0.96	11	\$ 7.48	17	3.36	13	68.85	6	10%	20	
Denver Regional Transportation District	37.82	1	358.09	1	1.54	3	4.23	11	8.95	2	84.71	4	19%	10	
San Diego Metropolitan Transit System	18.84	2	388.46	2	0.85	1	6.85	1	2.75	15	56.71	12	12%	18	
Utah Transit Authority	33.76	3	292.10	4	1.40	9	3.38	5	10.00	1	86.51	3	42%	2	
Bi-State Development Agency of the Missouri-Illinois Metropolitan District	18.37	4	261.13	14	0.80	10	4.28	14	4.30	9	61.08	9	27%	6	
Valley Metro Rail, Inc.	9.57	5	168.59	5	0.75	2	5.47	3	1.75	22	30.82	21	29%	5	
Metro Transit	24.25	6	494.10	3	0.80	4	5.30	2	4.58	7	93.24	2	33%	4	
City of Charlotte North Carolina	36.13	7	573.35	6	2.59	5	15.16	8	2.38	17	37.83	20	7%	21	
Maryland Transit Administration	47.50	8	695.47	11	1.68	12	5.76	16	8.25	3	120.72	1	17%	13	
Sacramento Regional Transit District	9.80	9	177.41	12	0.39	13	2.32	18	4.23	10	76.56	5	49%	1	
Tri-County Metropolitan Transportation District of Oregon	13.99	10	327.83	7	0.96	6	6.51	7	2.15	21	50.39	14	16%	14	
Dallas Area Rapid Transit	23.86	11	285.37	16	1.59	8	4.48	15	5.33	4	63.73	8	6%	22	
The Greater Cleveland Regional Transit Authority	14.61	12	181.61	10	0.76	17	3.04	21	4.81	6	59.84	10	35%	3	
Metropolitan Transit Authority of Harris County, Texas	17.58	13	313.93	8	1.20	16	7.65	9	2.30	19	41.03	19	16%	15	
Central Puget Sound Regional Transit Authority	10.83	14	194.60	19	0.86	7	4.15	10	2.61	16	46.84	16	25%	7	
Niagara Frontier Transportation Authority	32.66	16	422.80	13	2.46	19	9.93	13	3.29	14	42.59	18	11%	19	
Transportation District Commission of Hampton Roads	14.44	17	220.95	17	0.44	20	3.21	19	4.50	8	68.84	7	23%	8	
Port Authority of Allegheny County	15.87	18	309.31	18	1.20	21	6.88	20	2.31	18	44.97	17	13%	17	
Massachusetts Bay Transportation Authority	15.43	19	252.22	9	0.79	14	4.45	4	3.47	12	56.72	11	21%	9	
Santa Clara Valley Transportation Authority	28.92	20	326.80	21	2.23	22	5.94	22	4.87	5	54.98	13	19%	11	
City and County of San Francisco	21.98	21	309.23	15	1.66	15	10.04	6	2.19	20	30.80	22	17%	12	
New Jersey Transit Corporation	30.26	22	396.85	22	2.43	18	8.16	12	3.71	11	48.62	15	14%	16	
Average Excluding LA Metro	\$ 22.69		\$ 330.96		\$ 1.31		\$ 6.06		4.22		59.88		21%		

Table 6
Selected Measures of Service Efficiencies - Heavy Rail

Agency	Efficiency of the Costs of Service				Effectiveness of Service Provided										
	Oper Exp per Veh Rev Mile		Oper Exp per Veh Rev Hour		Oper Exp per Psngr Mile		Oper Exp per Trip		Trips per Veh Rev Mile		Trips per Veh Rev Hour		Farebox Recovery	Rank	
		Rank		Rank		Rank		Rank		Rank		Rank		Rank	
LA Metro	\$ 24.51	13	\$ 536.99	14	\$ 0.81	9	\$ 3.91	6	6.27	4	137.31	2	19%	10	
San Francisco Bay Area Rapid Transit District	14.68	1	267.97	7	0.50	1	1.92	10	7.65	1	139.60	1	70%	3	
Chicago Transit Authority	13.07	2	303.38	1	0.85	2	4.86	4	2.69	9	62.43	8	48%	6	
Metropolitan Atlanta Rapid Transit Authority	8.35	3	292.59	4	0.37	3	5.20	5	1.60	14	56.23	9	72%	2	
Southeastern Pennsylvania Transportation Authority	8.47	4	153.36	3	0.45	5	2.85	3	2.97	7	53.74	10	50%	5	
Port Authority Transit Corporation	34.35	5	467.02	11	1.02	7	5.07	11	6.78	3	92.15	5	43%	8	
County of Miami-Dade	13.19	6	199.57	5	0.53	8	1.90	9	6.95	2	105.17	3	74%	1	
Washington Metropolitan Area Transit Authority	9.16	7	243.89	8	0.46	10	3.16	7	2.90	8	77.14	6	37%	9	
Massachusetts Bay Transportation Authority	11.74	8	214.80	2	0.50	6	2.21	1	5.31	5	97.23	4	56%	4	
MTA New York City Transit	11.84	9	262.24	6	0.69	4	5.09	2	2.32	10	51.50	11	17%	11	
Maryland Transit Administration	17.79	10	455.22	12	2.40	14	10.71	14	1.66	13	42.50	14	13%	14	
The Greater Cleveland Regional Transit Authority	11.78	11	365.98	10	0.59	13	5.24	13	2.25	12	69.82	7	47%	7	
Staten Island Rapid Transit Operating Authority	22.64	12	338.12	9	1.19	12	7.45	12	3.04	6	45.37	12	15%	13	
Port Authority Trans-Hudson Corporation	18.25	14	343.43	13	1.24	11	8.02	8	2.28	11	42.83	13	16%	12	
Average Excluding LA Metro	\$ 15.02		\$ 300.58		\$ 0.83		\$ 4.90		3.72		71.98		43%		