

# Regional Route Performance Analysis

Transportation Committee  
March 9<sup>th</sup>, 2020

# Agenda

- Purpose
- Transit Performance Standards
- 2018 Route Performance Analysis

# Purpose

- Each year the Metropolitan Council evaluates how transit service in the region performs according to standards adopted in the Transportation Policy Plan
- Analyzes all service at the route level by all transit providers
  - Metro Transit
  - Metropolitan Transportation Services
  - Maple Grove
  - Minnesota Valley Transit Authority
  - Plymouth
  - SouthWest Transit

# Goals

- The analysis is a tool to help meet our regional goal of having an efficient and effective transit system
- Performance measures help identify unproductive routes which may warrant changes to service
- Assists transit service providers in balancing costs and ridership of each route with its role in the transportation network
- The Transit Service Allocation Study may produce new performance measures that better capture the roles of different route types

# Performance Standards

- Adopted in the Transportation Policy Plan, in Appendix G – Regional Transit Design Guidelines and Performance Standards
- Used to evaluate relative productivity and efficiency of transit services on a route by route basis
- Cost effectiveness measured as subsidy required to operate the route per passenger
- Productivity measured as passengers served per in-service hour

# Performance Standards – Cost Effectiveness

- Cost effectiveness standards are based on the average subsidy of each route type

Threshold Level	Subsidy per Passenger	Monitoring Goal	Possible Action
1	20 to 35% over peer route average	For quick review	Minor modifications to route
2	35 to 60% over peer route average	For intense review	Major changes to route
3	Greater than 60% over peer route average	For significant change	Restructure or eliminate route

# Performance Standards – Cost Effectiveness

Service Type	Subsidy Average	Routes by Threshold Category			
		Meets	Level 1	Level 2	Level 3
Commuter Bus	\$7.23	90	8	7	13
Core Local	\$5.14	26	0	5	2
Supporting Local	\$7.49	10	2	3	1
Suburban Local	\$11.04	29	2	2	11
Arterial BRT	\$3.64	1	0	0	0
Highway BRT	\$9.21	1	0	0	0
Light Rail	\$1.79	1	1	0	0
Commuter Rail	\$17.25	1	0	0	0
General DAR	\$20.71	3	0	0	1

# Performance Standards – Cost Effectiveness

Provider	Core Local	Supporting Local	Suburban Local	Arterial BRT	Highway BRT	Light Rail	Commuter/ Express Bus	Commuter Rail	General DAR	ADA DAR	Vanpool	Total All Types
Maple Grove							\$2.20		\$20.13			\$3.12
Metro Transit	\$4.43	\$8.52	\$5.98	\$3.99		\$1.86	\$4.96	\$17.25				\$3.94
MTS		\$4.40	\$5.30		\$9.12		\$8.18		\$24.81	\$27.94	\$2.30	\$16.76
MVTA			\$11.99				\$6.25					\$7.62
Plymouth							\$4.50		\$39.35			\$7.04
SW Transit			\$18.42				\$7.48		\$8.20			\$7.99
Total	\$4.43	\$7.41	\$6.89	\$3.99	\$9.12	\$1.86	\$5.17	\$17.25	\$21.22	\$27.94	\$2.30	\$4.89

# Performance Standards - Productivity

- Productivity standards establish minimum thresholds for route performance based on passengers carried per in service hour, standards vary by route type

Route Type	Route Average	Minimum per Trip
Core Local Bus	≥ 20	≥ 15
Supporting Local Bus	≥ 15	≥ 10
Suburban Local Bus	≥ 10	≥ 5
Arterial BRT	≥ 25	≥ 5
Highway BRT	≥ 25	≥ 5
Light Rail	≥ 70	≥ 50
Commuter/Express Bus	Peak ≥ 20; Off-peak ≥ 10	Peak ≥ 15; Off-peak ≥ 5
Commuter Rail	≥ 70	≥ 50
General Public DAR	≥ 2	N/A

# Performance Standards - Productivity

Route Type	Routes Meeting Standards	Routes Below Standards
Core Local Bus	32	1
Supporting Local Bus	12	4
Suburban Local Bus	26	18
Arterial BRT	1	0
Highway BRT	0	1
Light Rail	2	0
Commuter/Express Bus	85	33
Commuter Rail	1	0
General Public DAR	4	0

# Performance Standards

Route Type	Average Productivity	Average Subsidy
Core Local Bus	35.2	\$4.43
Supporting Local Bus	20.3	\$7.41
Suburban Local Bus	16.0	\$6.89
Arterial BRT	45.4	\$3.99
Highway BRT	20.7	\$9.12
Light Rail	227.2	\$1.86
Commuter/Express Bus	29.6	\$5.17
Commuter Rail	270.1	\$17.25
General Public DAR	2.6	\$21.22

# Questions?

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Route Analysis Online: <https://metro council.org/Transportation/Planning-2/Transit-Plans,-Studies-Reports/Transit-Transitways/RegionalRoutePerformanceAnalysis/Performance-Evaluation-for-2018.aspx>