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Florida's Mobility Performance Measures

Which Mobility Performance Measures Are Used?

Mobility Performance Measures for Highways

Dimension of Mobility	Mobility Performance Measures	System				Definition ¹
		State Highway System	Florida Intrastate Highway System	Florida Intrastate Highway System	Metropolitan Highway Systems	
Quantity of Travel	Person miles traveled	•	•	•	•	AAADT * length * vehicle occupancy
	Truck miles traveled	•	•	•	•	AAADT * length * % trucks
	Vehicle miles traveled	•	•	•	•	AAADT * length
	Person trips	•	•	•	•	Total person trips
Quality of Travel	Average speed	•	•	•	•	Average speed ² weighted by PMT
	Delay	•	•	•	•	Vehicle hours of delay
	Average travel time	•	•	•	•	Distance / speed
	Average trip time	•	•	•	•	Door to door trip travel time
Accessibility	Reliability	•	•	•	•	% of travel times that are acceptable
	Maneuverability	•	•	•	•	Vehicles per hour per lane
	Connectivity to intermodal facilities	•	•	•	•	% within 5 miles (1 mile for metropolitan)
	Dwelling unit proximity	•	•	•	•	% within 5 miles (1 mile for metropolitan)
Utilization	Employment proximity	•	•	•	•	% within 5 miles (1 mile for metropolitan)
	Industrial/warehouse facility proximity	•	•	•	•	% within 5 miles
	% miles bicycle accommodations	•	•	•	•	% miles with bike lane/shoulder coverage
	% miles pedestrian accommodations	•	•	•	•	% miles with sidewalk coverage
Utilization	% system heavily congested	•	•	•	•	% miles at LOS E or F
	% travel heavily congested	•	•	•	•	% daily VMT at LOS E or F
	Vehicles per lane mile	•	•	•	•	AAADT * length / lane miles
	Duration of congestion	•	•	•	•	Lane-mile-hours at LOS E or F

¹ Definitions shown are generally for daily analysis. Calculations for the peak are based on prevailing conditions during the typical weekday 5:00 to 6:00 PM peak.
² Speed based on models using the HCM or field data.

AAADT - annual average daily traffic
 PMT - person miles traveled
 VMT - vehicle miles traveled
 LOS - level of service
 HCM - Highway Capacity Manual

Mobility Performance Measures for Transit

Dimension of Mobility	Mobility Performance Measure	Definition
Quantity of Travel	Ridership	Total passenger trips
Quality of Travel	Auto / Transit Travel Time Ratio	Door-to-door trip time
	Reliability	On-time performance
Accessibility	Coverage	% person minutes served
	Frequency	Buses per hour
Utilization	Span	Hours of service per day
	Load Factor	% seats occupied

Why Do We Need Performance Measures?

Performance Measures Provide Accountability and Link Strategic Planning to Resource Allocation by Answering:

- How Do We Improve Transportation to Serve People and Commerce?
- What Are We Getting Back From Our Investments?
- Are We Investing Efficiently?

Mobility Defined

“The Ease With Which People and Goods Move Throughout Their Community, State and World”

What Are the Dimensions of Mobility?

- **Quantity of Travel** - Reflects the Magnitude of the Use of a Facility or Service
- **Quality of Travel** - Describes Travel Conditions and the Effects of Congestion
- **Accessibility** - Describes the Ease With Which People Can Connect to the Multimodal Transportation System
- **Utilization** - Indicates Whether or Not a Transportation System Is Properly Sized and Has the Ability to Accommodate Growth

Principles of Mobility Performance Measures Program

- The Program Builds on National Research
- The Process Is Policy-driven and Supported by Data
- The Measures Reflect the Users' Experience on the System
- The Measures Address Multimodal Considerations
- The Results Are Understandable to the General Public
- The Results Can Be Forecast Into the Future

Examples of Mobility Performance Measure Results

