

# Freeway LOS

## Determine LOS

### LOS Criteria for Basic Freeway Segments

Criteria	LOS				
	A	B	C	D	E
FFS = 75 mi/h					
Maximum density (pc/mi/ln)	11	18	26	35	45
Minimum speed (mi/h)	75.0	74.8	70.6	62.2	53.3
Maximum v/c	0.34	0.56	0.76	0.90	1.00
Maximum service flow rate (pc/h/ln)	820	1350	1830	2170	2400
FFS = 70 mi/h					
Maximum density (pc/mi/ln)	11	18	26	35	45
Minimum speed (mi/h)	70.0	70.0	68.2	61.5	53.3
Maximum v/c	0.32	0.53	0.74	0.90	1.00
Maximum service flow rate (pc/h/ln)	770	1260	1770	2150	2400
FFS = 65 mi/h					
Maximum density (pc/mi/ln)	11	18	26	35	45
Minimum speed (mi/h)	65.0	65.0	64.6	59.7	52.2
Maximum v/c	0.30	0.50	0.71	0.89	1.00
Maximum service flow rate (pc/h/ln)	710	1170	1680	2090	2350
FFS = 60 mi/h					
Maximum density (pc/mi/ln)	11	18	26	35	45
Minimum speed (mi/h)	60.0	60.0	60.0	57.6	51.1
Maximum v/c	0.29	0.47	0.68	0.88	1.00
Maximum service flow rate (pc/h/ln)	660	1080	1560	2020	2300
FFS = 55 mi/h					
Maximum density (pc/mi/ln)	11	18	26	35	45
Minimum speed (mi/h)	55.0	55.0	55.0	54.7	50.0
Maximum v/c	0.27	0.44	0.64	0.85	1.00
Maximum service flow rate (pc/h/ln)	600	990	1430	1910	2250

Note:

The exact mathematical relationship between density and v/c has not always been maintained at LOS boundaries because of the use of rounded values. Density is the primary determinant of LOS. The speed criterion is the speed at maximum density for a given LOS.

# Highway Capacity Manual Los

**Annelies Wilder-Smith**



## **Highway Capacity Manual Los:**

**Multimodal Level of Service Analysis for Urban Streets** Richard Gerhard Dowling, David Reinke, National Cooperative Highway Research Program, 2008      **The 1985 Highway Capacity Manual**, 1986 This is a summary of the 1985 Highway Capacity Manual HCM and has been prepared for personnel of the Federal Highway Administration to assist in the transition from the 1965 HCM to the 1985 HCM This summary highlights the major differences between the 1965 HCM and the 1985 HCM The key features and the principal contents of the 1985 HCM are also highlighted The 1985 HCM is a major evolutionary step forward in the state of the art of highway and traffic operational and design analysis It provides a means of evaluating alternative solutions to traffic problems solutions which still require the expertise and creativity of the professional engineer      The Highway Capacity Manual: A Conceptual and Research History Roger . P Roess, Elena . S Prassas, 2014-04-03 Since 1950 the Highway Capacity Manual has been a standard used in the planning design analysis and operation of virtually any highway traffic facility in the United States It has also been widely used abroad and has spurred the development of similar manuals in other countries The twin concepts of capacity and level of service have been developed in the manual and methodologies have been presented that allow highway traffic facilities to be designed on a common basis and allow for the analysis of operational quality under various traffic demand scenarios The manual also addresses related pedestrian bicycle and transit issues This book details the fundamental development of the concepts of capacity and level of service and of the specific methodologies developed to describe them over a wide range of facility types The book is comprised of two volumes Volume 1 this book focuses on the development of basic principles and their application to uninterrupted flow facilities freeways multilane highways and two lane highways Weaving merging and diverging segments on freeways and multilane highways are also discussed in detail Volume 2 focuses on interrupted flow facilities signalized and unsignalized intersections urban streets and arterials It is intended to help users of the manual understand how concepts approaches and specific methodologies were developed and to understand the underlying principles that each embodies It is also intended to act as a basic reference for current and future researchers who will continue to develop new and improved capacity analysis methodologies for many years to come      The Highway Capacity Manual: A Conceptual and Research History Volume 2 Elena S. Prassas, Roger P. Roess, 2020-01-08 Since 1950 the Highway Capacity Manual has been a standard used in the planning design analysis and operation of virtually any highway traffic facility in the United States It has also been widely used around the globe and has inspired the development of similar manuals in other countries This book is Volume II of a series on the conceptual and research origins of the methodologies found in the Highway Capacity Manual It focuses on the most complex points in a traffic system signalized and unsignalized intersections and the concepts and methodologies developed over the years to model their operations It also includes an overview of the fundamental concepts of capacity and level of service particularly as applied to intersections The historical roots of the manual and its contents are

important to understanding current methodologies and improving them in the future As such this book is a valuable resource for current and future users of the Highway Capacity Manual as well as researchers and developers involved in advancing the state of the art in the field

**Extent of Highway Capacity Manual Use in Planning** Richard Gerhard Dowling, Aaron Elias, 2012 TRB's National Cooperative Highway Research Program NCHRP Synthesis 427 Extent of Highway Capacity Manual Use in Planning assesses how state departments of transportation small and large metropolitan planning organizations and local governments are using or might use the Highway Capacity Manual for planning analyses or more specifically for performance monitoring problem identification project prioritization programming and decision making processes

Highway Capacity and Level of Service Ulrich Brannolte, 2021-10-01 Proceedings of the International Symposium on Highway Capacity Karlsruhe Germany July 1991 Papers range widely from driving behavior and pedestrian to the numerical value of freeway capacity and transit capacity

**Construction and Operation of a Freeway Bypass on US 101 Around the City of Willits in Mendocino County, from KP R69.4 to KP 84.2 (PM R43.1/52.3)**, 2006 Planning Techniques to Estimate Speeds and Service Volumes for Planning Applications Richard Gerhard Dowling, National Cooperative Highway Research Program, 1997

**Urban Transport XIV** C. A. Brebbia, 2008 Transportation in cities with its related environmental and social concerns continues to be a topic of the utmost priority for urban authorities and central governments around the world Frequently the concern is not orderly but driven by the safety crises which take place regularly and even the best planned urban transport systems require considerable studies to safeguard their safety maintenance and operational use On a broader front the continuing need for better urban transport systems in general and the need for a healthier environment has led to an increased level of research around the world This is reflected in the proceedings of the Thirteenth International Conference on Urban Transport and the Environment in the 21st Century which stresses the continuous steady growth and research into the urban transport systems control aspects information and simulation systems All these topics continue to be of importance for analyzing the complex inter relation of the urban transport environment and for establishing action strategies for transport and traffic problems Of interest to engineers scientists and managers working in industry universities research organizations and government involved in the planning and management of urban transportation systems and transport policy this book contains papers within the following subject areas Environmental and ecological considerations Information systems and GPS applications Intelligent transport systems Intermodal passenger transport systems Land use and transport integration Modality in freight Public transport systems Road pricing Traffic management Transport automation Transport logistics and operations research Transport modelling and simulation Transport security and safety Transport sustainability Transport technology Urban transport planning

**Alternatives to Replacement of the Embarcadero Freeway and the Terminal Separator Structure, San Francisco County**, 1996

**Traffic Engineering Handbook** ITE (Institute of Transportation Engineers), Brian

Wolshon, Anurag Pande, 2016-01-13 Get a complete look into modern traffic engineering solutions Traffic Engineering Handbook Seventh Edition is a newly revised text that builds upon the reputation as the go to source of essential traffic engineering solutions that this book has maintained for the past 70 years The updated content reflects changes in key industry standards and shines a spotlight on the needs of all users the design of context sensitive roadways and the development of more sustainable transportation solutions Additionally this resource features a new organizational structure that promotes a more functionally driven multimodal approach to planning designing and implementing transportation solutions A branch of civil engineering traffic engineering concerns the safe and efficient movement of people and goods along roadways Traffic flow road geometry sidewalks crosswalks cycle facilities shared lane markings traffic signs traffic lights and more all of these elements must be considered when designing public and private sector transportation solutions Explore the fundamental concepts of traffic engineering as they relate to operation design and management Access updated content that reflects changes in key industry leading resources such as the Highway Capacity Manual HCM Manual on Uniform Traffic Control Devices MUTCD AASHTO Policy on Geometric Design Highway Safety Manual HSM and Americans with Disabilities Act Understand the current state of the traffic engineering field Leverage revised information that homes in on the key topics most relevant to traffic engineering in today s world such as context sensitive roadways and sustainable transportation solutions Traffic Engineering Handbook Seventh Edition is an essential text for public and private sector transportation practitioners transportation decision makers public officials and even upper level undergraduate and graduate students who are studying transportation engineering

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**Cross-Base Highway Project, New Roadway Construction Between I-5 at the Thorne Lane Interchange and WA-7 at 176th St. South** ,2003     Boise National Forest (N.F.), Valbois Resort Village Development, Cascade Lake, Valley County ,1991     **Manchester Airport Access Road Highway Improvement Project** ,2001     **Hyde Park/North Logan Transportation Corridor** ,2011     **Carswell Air Force Base (AFB) Disposal and Reuse** ,1994     **Route 101 Six-lane Project, Between Milpas St. in Santa Barbara and 1.1 Miles North of Ventura County Line in Carpinteria, Santa Barbara County** ,1993     **Project IM 0252-317, South I-25 Corridor and US 85 Corridor, Douglas County** ,2001  
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