

## Resources Related to Traffic Analysis and Minimizing Road-Work Related Traffic Delays

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Please direct questions to the [FHWA Division Office in your State](#).

### Traffic Analysis

1. *Video on Scoping and Conducting a Traffic Study to Meet Community Needs:*  
<https://www.youtube.com/watch?v=a3brJhRQtZk>.
2. *Traffic Analysis Tools Primer:* [https://ops.fhwa.dot.gov/trafficanalysistools/tat\\_vol1/index.htm](https://ops.fhwa.dot.gov/trafficanalysistools/tat_vol1/index.htm).
3. *Decision Support Methodology for Selecting Traffic Analysis Tools:*  
[https://ops.fhwa.dot.gov/trafficanalysistools/tat\\_vol2/index.htm](https://ops.fhwa.dot.gov/trafficanalysistools/tat_vol2/index.htm).
4. *Scoping and Conducting Data-Driven 21<sup>st</sup> Century Transportation System Analyses:*  
<https://ops.fhwa.dot.gov/publications/fhwahop16072/index.htm>.
5. *Guidelines for Applying Traffic Microsimulation Modeling Software (2019 Update to the 2004 Version):* <https://ops.fhwa.dot.gov/publications/fhwahop18036/index.htm>. 5-episode YouTube videos explaining the updated 2019 guidance:  
[https://www.youtube.com/playlist?list=PL5\\_sm9g9d4T0kXLAval1Qf4hBO80ASN75](https://www.youtube.com/playlist?list=PL5_sm9g9d4T0kXLAval1Qf4hBO80ASN75).
6. *FHWA Traffic Bottlenecks: Identification and Solutions:*  
<https://www.fhwa.dot.gov/publications/research/operations/16064/index.cfm>.
7. *Localized Bottleneck Congestion Analysis Focusing on What Analysis Tools Are Available, Necessary and Productive for Localized Congestion Remediation:*  
<https://ops.fhwa.dot.gov/publications/fhwahop09042/index.htm>.
8. *Highway Capacity Manual (HCM), 6<sup>th</sup> Edition:*  
<https://www.mytrb.org/MyTRB/Store/Product.aspx?ID=8313>.
9. *ITE Traffic Engineering Handbook, 7<sup>th</sup> Edition:*  
<https://ecommerce.ite.org/IMIS/ItemDetail?iProductCode=LP-691>.

### Minimizing Road-Work related Traffic Delays

1. Developing and Implementing Transportation Management Plans for Work Zones ([HTML](#), [PDF](#))
2. Assessing the Effectiveness of TMP Strategies ([HTML](#), [PDF](#))
3. Sample Transportation Management Plans and Templates ([HTML](#), [PDF](#))
  - a. TMP Template 1: Minor-to-Moderate Impacts ([HTML](#), [DOC](#))
  - b. TMP Template 2: Moderate-to-Major Impacts ([HTML](#), [DOC](#))
4. Work Zone Impacts Assessment: An Approach to Assess and Manage Work Zone Safety and Mobility Impacts of Road Projects ([HTML](#), [PDF](#))
5. Work Zone Public Information and Outreach Strategies ([HTML](#), [PDF](#))
6. Work Zone Intelligent Transportation Systems Implementation Guide: Use of Technology and Data for Effective Work Zone Management ([HTML](#), [PDF](#))
7. [Work Zone Best Practices Guidebook](#)
8. Guidance on Using Traffic Management Centers for Work Zone Management ([HTML](#), [PDF](#))
9. Work Zone Modeling & Simulation: A Guide for Decision Makers ([HTML](#), [PDF](#))
10. Work Zone Modeling and Simulation - A Guide for Analysts ([HTML](#), [PDF](#))
11. Work Zone Traffic Analysis - Applications and Decision Framework ([HTML](#), [PDF](#))
  - a. Executive Summary ([HTML](#), [PDF](#))
12. National Work Zone Safety Information Clearinghouse

- a. [Smarter Work Zones](#)
  - b. [Transportation Management Plans](#)
  - c. [Accommodating Pedestrians](#)
  - d. [Work Zone Designer Series](#)
  - e. Use [Searchable Databases](#) to find other products developed by transportation agencies and Work Zone Safety Grant recipients
13. Scoping and Conducting Data-Driven 21<sup>st</sup> Century Transportation System Analyses ([HTML](#), [PDF](#))
  14. [Highway Capacity Manual \(HCM\), 6<sup>th</sup> Edition](#)
  15. [ITE Traffic Engineering Handbook, 7<sup>th</sup> Edition](#)