

Field Inventory Worksheet

NOTE: The Worksheet in this appendix does not contain the Analysis Procedures Manual Footer.

FIELD INVENTORY WORKSHEET

General Information

Analyst _____ Agency _____
Date & Time _____ Intersection _____
Weather Conditions _____
Count Coordination: Simultaneous Representative Time Sample Count During Collection

Sketch, Label, & Describe the Location - See CheatSheet for Reminders on Collection

Reminder Reference:

North Arrow
Lane/Shoulder/
Median/Bike/
Parking Widths
Turn Bays/Tapers
Access Spacing
Blocked Access
Slopes/Curves
Speed limit
Turn Speeds
Signals/Signing
Parking/Buses
Rail/Crosswalks
Detectors
Lane Utilization
Lane Alignment
(Turning Paths)

Extra Space for Larger Trends, Ex. OD patterns or lane positioning

***Label the approaches, lane configurations, and directions to correspond with the table below**



Microsimulation Performance Measures

There are several outputs from microsimulation models that should be compared to field conditions. Record the following conditions, approximated from your field observations

Approach	<input type="checkbox"/> EastBound or <input type="checkbox"/> _____			<input type="checkbox"/> WestBound or <input type="checkbox"/> _____			<input type="checkbox"/> NorthBound or <input type="checkbox"/> _____			<input type="checkbox"/> SouthBound or <input type="checkbox"/> _____		
	L LT	T LTR	R TR	L LT	T LTR	R TR	L LT	T LTR	R TR	L LT	T LTR	R TR
~Average Queue Length												
~Maximum Queue Length												
Upstream Blk Time (~%)												
Storage Blk Time (~%)												
Arrival Type –	Platoon	Random		Platoon	Random		Platoon	Random		Platoon	Random	
If Platoon	Green	Red		Green	Red		Green	Red		Green	Red	

Describe the severity of congestion at the intersection: _____

Additional Notes and Observations

* Graphics from this Field Inventory Worksheet were copied from the Highway Capacity Manual 2000, Chapter 16, Appendix I, Field Saturation Flow Rate Study Worksheet.

IMPORTANT DATA – CHECKLIST / CHEAT-SHEET

Before conducting a field inventory you should be able answer “Yes” to at least one of the three questions below:

- | | | |
|--------------------------|--------------------------|--|
| Yes | No | |
| <input type="checkbox"/> | <input type="checkbox"/> | Is a vehicle count for your study being conducted during your collection? |
| <input type="checkbox"/> | <input type="checkbox"/> | Is your collection occurring during a time period that represents the traffic conditions that occurred when the vehicle counts were collected? |
| <input type="checkbox"/> | <input type="checkbox"/> | Are you having a short (sample) vehicle count performed during this collection to adjust or to help ensure that your counts are comparable to the conditions witnessed during inventory? |

Cheat-sheet of Field Data and Observations to Collect, From APM Section 3.2

Geometric Data

Street names
Lane/shoulder/median widths
Lane configurations
Sidewalk widths and locations
Intersection and access spacing
Horizontal and vertical roadway alignments
Storage bay lengths (from stop-bar to start of taper)
Taper bay lengths
Bike lanes and width
Parking width and locations

Operational Data

Speed limits
Intersection controls (signalized, stop sign, yield, merge ...)
Signal characteristics (timed, actuated, split-phased, left turns ...)
Signing (especially turn prohibitions)
Parking locations, signing, striping, and frequency of parking maneuvers
Crosswalk location and frequency of use
Bus stop locations and bus schedule
Rail crossings, train frequency and duration of blockages

Simulation Data

Number of Detectors, length, and distances from stop bar
Locations where vehicles improperly use the shoulder or median to move around blockage points or due to driver confusion
Turning Speeds (if unusual geometrics or conditions exist)
Lane Utilization
Turning alignment
Important Travel Patterns (OD Data)
Lane positioning lengths or land marks
Approximate average and maximum queues
Intersection and Turn Bay Blockages
Arrival type