



# City Of Los Angeles Department Of Transportation MANUAL TRAFFIC COUNT SUMMARY

STREET:

North/South

KOHLER ST

East/West

8TH ST

Day: MONDAY Date: June 7, 2010 Weather: SUNNY

Hours: 7-10AM 11-2PM

School Day: YES District: CENTRAL I/S CODE 8813

	N/B	S/B	E/B	W/B
DUAL-WHEELED	44	38	96	156
BIKES	18	7	5	2
BUSES	1	0	0	6

	N/B TIME	S/B TIME	E/B TIME	W/B TIME
AM PK 15 MIN	26 9.15	17 9.15	46 8.45	81 8.30
PM PK 15 MIN	48 11.00	18 11.30	62 11.00	83 11.00
AM PK HOUR	74 8.30	45 8.45	162 8.30	305 8.30
PM PK HOUR	89 11.00	57 11.00	206 11.00	266 11.00

## NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	13	15	24	52
8-9	14	8	35	57
9-10	15	4	38	57
11-12	20	18	51	89
12-1	14	7	19	40
1-2	8	5	30	43
TOTAL	84	57	197	338

## SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	18	5	15	38
8-9	15	6	7	28
9-10	24	6	14	44
11-12	28	15	14	57
12-1	8	1	5	14
1-2	6	4	8	18
TOTAL	99	37	63	199

## TOTAL

## XING S/L

## XING N/L

N-S	Ped	Sch	Ped	Sch
90	24	0	23	0
85	20	1	30	0
101	33	0	18	0
146	20	0	13	0
54	7	0	12	0
61	10	0	10	0
537	114	1	106	0

## EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	10	115	21	146
8-9	9	125	13	147
9-10	3	124	16	143
11-12	11	178	17	206
12-1	6	123	12	141
1-2	5	132	12	149
TOTAL	44	797	91	932

## WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	36	209	25	270
8-9	30	238	29	297
9-10	25	230	24	279
11-12	35	201	30	266
12-1	11	159	12	182
1-2	9	151	10	170
TOTAL	146	1188	130	1464

## TOTAL

## XING W/L

## XING E/L

E-W	Ped	Sch	Ped	Sch
416	19	0	8	0
444	23	0	27	0
422	10	0	14	0
472	19	0	13	0
323	13	0	4	0
319	22	0	2	0
2396	106	0	68	0

CHECK 133 113 111 70

FETSIM COUNT SHEET

City of Los Angeles  
Department of Transportation  
(R 3-89)

North/South St: KOHLER ST  
-----  
East/West St: 8TH ST  
-----  
Date: June 7, 2010  
-----

NOTE: THESE COUNTS WERE CALCULATED IN ACCORDANCE WITH THE COUNT DEFINITION OUTLINED

Peak hour volumes were calculated by determining the 1/2 hour during which the total volume on all approaches was a maximum, i.e., from 7.00-7.30 or from 4.15-4.45. Then these volumes were multiplied by 2 to get the hourly volumes. These numbers are not the same as the ones in the Traffic Count Summary forms.

A.M.	Format	P.M.	LINK	Format
18	28	10	2	4
18	58	4	2	14
4	18	2	128	8
32	36	6	128	4

TRAFFIC COUNT SUMMARY Format

SB APPROACH

	Lt	Rt	Lt	Th	Rt	
AM	18	58	28	2	18	9.00
PM	4	14	4	2	10	13.30

WB APPROACH

	Lt	Rt	Lt	Th	Rt
AM	4	18	36	128	32
PM	2	8	4	128	6

\*\*\*\*\*

CALCULATION WORKSPACE

NORTHBOUND AM

Period Endng	Total Vehicles L	T	R	Cross Tot.	Hour Tot.	D.W Veh.	Bus	Pedestrns Ped	Sch	Period Begng
---	----	----	----	-----	-----	-----	-----	-----	-----	----
7.15	7	3	9	19	52	2	0	7	0	7.00
7.30	2	5	8	15	37	4	0	10	0	7.15
7.45	3	6	4	13	43	2	0	5	0	7.30
8.00	1	1	3	5	38	1	0	2	0	7.45
8.15	1	1	2	4	57	2	0	3	0	8.00
8.30	5	3	13	21	69	2	0	7	1	8.15
8.45	1	1	6	8	74	0	0	2	0	8.30
9.00	7	3	14	24	73	4	0	8	0	8.45
9.15	3	1	12	16	57	3	0	7	0	9.00
9.30	6	3	17	26		7	0	14	0	9.15
9.45	3	0	4	7		2	1	6	0	9.30
10.00	3	0	5	8		1	0	6	0	9.45

NORTHBOUND PM

Period Endng	Total Vehicles L	T	R	Cross Tot.	Hour Tot.	D.W Veh.	Bus	Pedestrns Ped	Sch	Period Begng
---	----	----	----	-----	-----	-----	-----	-----	-----	----
11.15	14	10	24	48	89	3	0	1	0	11.00
11.30	4	6	13	23	63	1	0	12	0	11.15
11.45	1	1	11	13	47	2	0	4	0	11.30
12.00	1	1	3	5	41	0	0	3	0	11.45
12.15	7	4	11	22	40	2	0	1	0	12.00
12.30	3	1	3	7	26	1	0	2	0	12.15
12.45	3	2	2	7	44	0	0	3	0	12.30
13.00	1	0	3	4	43	0	0	1	0	12.45
13.15	1	0	7	8	43	0	0	2	0	13.00
13.30	5	4	16	25		4	0	4	0	13.15
13.45	1	0	5	6		1	0	2	0	13.30
14.00	1	1	2	4		0	0	2	0	13.45

EASTBOUND AM

Period Endng	Total Vehicles L	T	R	Cross Tot.	Hour Tot.	D.W Veh.	Bus	Pedestrns Ped	Sch	Period Begng
---	----	----	----	-----	-----	-----	-----	-----	-----	----
7.15	2	28	8	38	146	8	0	7	0	7.00
7.30	6	28	6	40	135	7	0	5	0	7.15
7.45	1	36	5	42	134	4	0	6	0	7.30
8.00	1	23	2	26	127	2	0	1	0	7.45
8.15	0	25	2	27	147	3	0	2	0	8.00
8.30	3	33	3	39	158	2	0	11	0	8.15
8.45	2	30	3	35	162	3	0	8	0	8.30
9.00	4	37	5	46	159	6	0	2	0	8.45
9.15	2	32	4	38	143	4	0	3	0	9.00
9.30	0	38	5	43		5	0	3	0	9.15
9.45	1	28	3	32		4	0	4	0	9.30
10.00	0	26	4	30		5	0	0	0	9.45

[illegible]

%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %%%%%%%%% %

%

%

%

%

%

%

%

%

SOUTHBOUND AM

Period	Total Vehicles			Cross	Hour	D.W	Pedestrns			Period %	
Endng	L	T	R	Tot.	Tot.	Veh.	Bus	Ped	Sch	Begng %	
----	----	----	----	----	----	----	----	----	----	----	
7.15	5	2		4	11	38	3	0	6	0	7.00 %
7.30	6	2		6	14	33	4	0	7	0	7.15 %
7.45	1	0		2	3	27	0	0	5	0	7.30 %
8.00	6	1		3	10	31	2	0	5	0	7.45 %
8.15	2	2		2	6	28	1	0	14	0	8.00 %
8.30	4	1		3	8	32	1	0	3	0	8.15 %
8.45	5	2		0	7	41	1	0	6	0	8.30 %
9.00	4	1		2	7	45	4	0	7	0	8.45 %
9.15	6	2		2	10	44	3	0	4	0	9.00 %
9.30	8	2		7	17		3	0	3	0	9.15 %
9.45	6	1		4	11		1	0	6	0	9.30 %
10.00	4	1		1	6		1	0	5	0	9.45 %

.....%

SOUTHBOUND PM

Period	Total Vehicles			Cross	Hour	D.W	Pedestrns			Period %	
Endng	L	T	R	Tot.	Tot.	Veh.	Bus	Ped	Sch	Begng %	
----	----	----	----	----	----	----	----	----	----	----	
11.15	8	2		3	13	57	3	0	4	0	11.00 %
11.30	6	2		2	10	47	0	0	6	0	11.15 %
11.45	8	6		4	18	42	3	0	3	0	11.30 %
12.00	6	5		5	16	28	5	0	0	0	11.45 %
12.15	2	0		1	3	14	0	0	3	0	12.00 %
12.30	3	1		1	5	14	3	0	3	0	12.15 %
12.45	1	0		3	4	16	0	0	3	0	12.30 %
13.00	2	0		0	2	15	0	0	3	0	12.45 %
13.15	2	1		0	3	18	0	0	2	0	13.00 %
13.30	2	2		3	7		0	0	2	0	13.15 %
13.45	0	0		3	3		0	0	4	0	13.30 %
14.00	2	1		2	5		0	0	2	0	13.45 %

%

WESTBOUND AM

Period	Total Vehicles			Cross	Hour	D.W	Pedestrns			Period %	
Endng	L	T	R	Tot.	Tot.	Veh.	Bus	Ped	Sch	Begng %	
----	----	----	----	----	----	----	----	----	----	----	
7.15	10	44		7	61	270	7	0	1	0	7.00 %
7.30	12	60		5	77	285	10	6	3	0	7.15 %
7.45	9	52		6	67	274	10	0	2	0	7.30 %
8.00	5	53		7	65	288	7	0	2	0	7.45 %
8.15	12	56		8	76	297	13	0	7	0	8.00 %
8.30	4	59		3	66	298	7	0	7	0	8.15 %
8.45	9	64		8	81	305	12	0	9	0	8.30 %
9.00	5	59	10	74	294	12	0	4	0	0	8.45 %
9.15	7	61	9	77	279	10	0	5	0	0	9.00 %
9.30	11	55	7	73		10	0	3	0	0	9.15 %
9.45	6	60	4	70		6	0	4	0	0	9.30 %
10.00	1	54	4	59		4	0	2	0	0	9.45 %

.....%

%

%

[illegible]

\*

\*\*\*\*\*

\*\*\*\*\*

✻

✻

- ✱
- ✱
- ✱

✻  
✻  
✻

# TRAFFIC SIGNAL WARRANTS

CALC DATE: June 7, 2010

CHK DATE:

DISTRICT: CENTRAL

Major St: 8TH ST  
Minor St: KOHLER ST

Critical Approach Speed: mph  
Critical Approach Speed: mph

Critical speed of major street traffic >=40 mph

OR

In built up area of isolated community of =< 10,000 population

..... RURAL(R)

OTHERWISE

..... URBAN (U)

WARRANT 1- Minimum Vehicular Volume

100% SATISFIED

YES

NO

80% SATISFIED

YES

NO

## MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)

APPROACH	U	R	U	R	Hour					
LANES	1		2 or	more	7-8	8-9	9-10	11-12	12-1	1-2
Both Approaches	500	350	600	420						
Major Street	(400)	(280)	(480)	(336)	416	444	422	472	323	319
Highest Approach	150	105	200	140						
Minor street	(120)	(84)	(160)	(112)	52	57	57	89	40	43

NOTE: Heavier left turn movement from Major Street included when LT-phasing is proposed

WARRANT2- Interruption of ContinuousTraffic

100% SATISFIED

YES

NO

80% SATISFIED

YES

NO

## MINIMUM REOUIREMENTS (80% SHOWN IN BRACKETS)

APPROACH	U	R	U	R	Hour					
LANES	1		2 or	more	7-8	8-9	9-10	11-12	12-1	1-2
Both Approaches	750	525	900	630						
Major Street	(600)	(420)	(720)	(504)	416	444	422	472	323	319
HighestApproch	75	53	100	70						
Minor Street	(60)	(42)	(80)	(56)	52	57	57	89	40	43

\*NOTE: Heavier left turn movement from Major Street included when LT-phasing is proposed

WARRANT 3- Minimum Pedetrian Volume

100% SATISFIED

YES

NO

80% SATISFIED

YES

NO

## MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)

				Hour							
				U	R	7-8	8-9	9-10	11-12	12-1	1-2
Both Approaches	no			600	420						
Major Street	median			(480)	(336)	416	444	422	472	323	319
	Raised			1000	700						
Volume	4'median			(800)	(560)						
Peds on highest volume				150	105						
x-walk xing major st				(120)	(84)	19	27	14	19	13	22

IF MIDBLOCK SIGNAL PROPOSED

MIN. REOUIREMENT DISTANCE TO NEAREST ESTABLISHED CROSSWALK

FULFILLED

150 FEET

N/E:

FT

S/W:

FT

YES

NO

The satisfaction of a warrant is not necessarily justification for a signal. Delay, congestion, confusion or other evidence of the need for right of way assignment must be shown.

## WARRANT 4 - Schools Crossings

Not Applicable  
See School Crossings Warrant Sheet

## WARRANT 5 - Progressive Movement

SATISFIED

YES

NO

## MINIMUM REQUIREMENTS

## DISTANCE TO NEAREST SIGNAL

FULFILLED

&gt; 1000 ft

N

S

E

W

YES

NO

ON ONE WAY ISOLATED ST. OR ST. WITH ONE WAY TRAFFIC SIGNIFICANCE AND ADJACENT SIGNALS ARE SO FAR APART THAT NECESSARY PLATOONING IL SPEED CONTROL WOULD BE LOST.  
ON 2-WAY ST. WHERE ADJACENT SIGNALS DO NOT PROVIDE NECESSARY PLATOONING & SPEED CONTROL. PROPOSED SIGNALS COULD CONSTITUTE A PROGRESSIVE SIGNAL SYSTEM

YES

NO

## WARRANT 6 - Accident Experience

SATISFIED

YES

NO

## REQUIREMENT

## WARRANT

(X)

FULFILLED

ONE WARRANT

WARRANT 1 - MINIMUM VEHICULAR VOLUME

SATISFIED

OR

80%

WARRANT 2 - INTERRUPTION OF CONTINUOUS TRAFFIC

OR

WARRANT 3 - MINIMUM PEDESTRIAN VOLUME

YES

NO

SIGNAL WILL NOT SERIOUSLY DISRUPT PROGRESSIVE TRAFFIC FLOW

ADEQUATE TRIAL OF LESS RESTRICTIVE REMEDIES HAS FAILED TO REDUCE ACC. FREQ.

ACC WITHIN A 12 MON. PERIOD SUSCEPTIBLE OF CORR. IL INVOLVING INJURY OR &gt; \$200 DAMAGE

MINIMUM REQUIREMENT

NUMBER OF ACCIDENTS

3 OR MORE

YES

NO

\* NOTE: Left turn accidents can be included when LT-phasing is proposed

## WARRANT 7 - Systems Warrant

SATISFIED

YES

NO

## Minimum Volume Requirement

ENTERING VOLUMES - ALL APPROACHES  
DURING TYPICAL WEEKDAY PEAK HOUR

(X)

FULFILLED

618

veh/hr

800 VEH/HR

DURING EACH OF ANY 5 HRS OF A SAT AND/OR SUNDAY

veh/hr

YES

NO

## CHARACTERISTICS OF MAJOR ROUTES

MAJOR S/INOR ST

HWY SYSTEM SERVING AS PRINCIPLE NETWORK FOR THROUGH TRAFFIC

CONNECTS AREAS OF PRINCIPLE TRAFFIC GENERATION

RURAL OR SUBURBAN HWY OUTSIDE OF, ENTERING, OR TRAVERSING A CITY

HAS SURFACE STREET FWY OR EXPWAY RAMP TERMINALS

APPEARS AS MAJOR ROUTE ON AN OFFICIAL PLAN

ANY MAJOR ROUTE CHARACTERISTICS MET, BOTH STREETS

YES

NO

The satisfaction of a warrant is not necessarily justification for a signal. Delay, congestion, confusion or other evidence of the need for right of way assignment must be shown.



WARRANT 8 - Combination of Warrants	SATISFIED	YES	NO
-------------------------------------	-----------	-----	----

REQUIREMENT	WARRANT	(X)	FULFILLED
TWO WARRANTS	1 - MINIMUM VEHICULAR VOLUME		
SATISFIED	2 - INTERRUPTION OF CONTINUOUS TRAFFIC		
80%	3 - MINIMUM PEDESTRIAN VOLUME		YES NO

WARRANT 9 - Four Hour Volume	SATISFIED	YES	NO
------------------------------	-----------	-----	----

Approach Lanes	One	2 or more	Hour 11-12	8-9	9-10	7-8
Both Approaches, Major Street			472	444	422	416
Highest Approaches, Minor Street			89	57	57	52

\*Refer to Fig. 9-2A (URBAN AREAS) or Figure 9-2B (RURAL AREAS) to determine if this warrant is satisfied.

WARRANT 10 - Peak Hour Delay	SATISFIED	YES	NO
------------------------------	-----------	-----	----

1. The total delay experienced for traffic on one minor street approach controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach and five vehicle-hours for a two-lane approach; and		YES	NO
2. The volume on the same minor street approach equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; and		YES	NO
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches		YES	NO

WARRANT 11 - Peak Hour Volume	SATISFIED*	YES	NO
-------------------------------	------------	-----	----

Approach Lanes	One	2 or more	Hour 11-12
Both Approaches , Major Street			472
Highest Approaches, Minor Street			89

\*Refer to Fig. 9-2C (URBAN AREAS) or Figure 9-2D (RURAL AREAS) to determine if this warrant is satisfied.

— The satisfaction of a warrant is not necessarily justification for a signal. Delay, congestion, confusion or other evidence of the need for right of way assignment must be shown.

CALCULATIONS

MAX OF WARRANT PAIRS	561		CH	CI	CJ	CK	CL	CM
NEXT MAX	501	TOTAL EACH CELL	468	501	479	561	363	362
NEXT MAX	479							
NEXT MAX	468		MAX		NEXT		NEXT	
			561		468		468	
			561		0		0	
			561		479		0	
			501		0		0	
			561		363		363	
			561		362		362	