



040245

To: John Burg, Acting Director of Public Works
From: Justine Gembala, PE, Civil Engineer *JG*
Date: June 7, 2004
Subject: Edson Speeding Concern and Request for a Multi-way Stop at Hickory

Public Works was contacted by Ms. Nola Thompson, 500 S. Edson and Mr. Jim Watson, 241 S. Edson regarding motorist speeding on Edson between Maple and Madison. They also requested a multi-way stop at Edson and Hickory. This intersection was reviewed in January 1998 for sight distance problems. A multi-way stop analysis was conducted and the intersection did not warrant multi-way stop controls. However, it was determined at that time that a two-way stop on Hickory was warranted due to the lowering of the roadway (Special Assessment 208 Project). Traffic counts conducted on Hickory in September of 2003 revealed that the volume of traffic has remained the same since the 1998 study.

Attached for your review are traffic analyzer reports for Edson between Maple and Madison. Copies of these reports were forwarded to the Police Department for their consideration. The traffic analyzer reports revealed that most motorists are traveling at a speed of 30 MPH or less when traveling southbound and at a speed of 35 MPH or less when traveling northbound.

Accident reports were run from January 2002 through April 2004. A total of seven accidents occurred during this time period; six involved a parked car and one was a hit and run. The motorist of the vehicle that was hit reported that the collision was intentional.

At this time, the Village does not have a policy or procedure in place to install traffic calming devices. It is recommended that the 30 MPH speed limit on Edson between Maple and Madison remain unposted.

This item will be on the June 14, 2004 Transportation and Safety Committee agenda. The meeting is held at the Village Hall in the Community Room at 7:30 PM. This is a public meeting and public participation is encouraged.

JG/jj

cc: Rick Soderstrom, Trustee, District 6
Joan DeStephano, Trustee, District 1
Ms. Nola Thompson, 500 S. Edson
Mr. Jim Watson, 241 S. Edson
David Dratnol, Village Engineer
Transportation and Safety Committee

**Nu-Metrics Traffic Analyzer Study
Computer Generated Summary Report
City: Lombard
Street: S.B. Edson bet Madison&Hickory**

A study of vehicle traffic was conducted with HI-STAR unit number 2963. The study was done in the lane on S.B. Edson bet Madison&Hickory in Lombard, Il in DuPage county. The study began on 04/13/2004 at 02:00 PM and concluded on 04/15/2004 at 02:00 PM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 551 vehicles passed through the location with a peak volume of 47 on 04/15/2004 at 07:00 AM and a minimum volume of 0 on 04/14/2004 at 01:00 AM. The AADT Count for this study was 276.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
9	14	19	24	29	34	39	44	49	54	59	64	69	74	
0	6	36	86	112	168	92	26	9	6	1	3	2	2	1

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 29 mph with 25.8 percent exceeding the posted speed of 30 mph. The HI-STAR found 25.8 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 33.73 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
516	23	7	4	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 539 which represents 98.00 percent of the total classified vehicles. The number of Small Trucks in the study was 7 which represents 1.30 percent of the total classified vehicles. The number of Trucks/Busses in the study was 4 which represents 0.70 percent of the total classified vehicles. The number of Tractor Trailers in the study was 0 which represents 0.00 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 04/15/2004 at 07:00 AM the average headway between the vehicles was 75.0 seconds. The slowest traffic period was on 04/14/2004 at 01:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 37 and 103 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

Time/Speed Report

HI-Star ID: 2963	Begin: 04/13/2004 02:00 PM	End: 04/15/2004 02:00 PM
Street: S.B. Edson bet Madison&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 551
County: DuPage	AADT Factor: 1	AADT Count: 276

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		

04/13/2004 [02:00 PM-03:00 PM]	0	0	1	3	7	12	0	2	0	0	0	0	0	0	0	25
04/13/2004 [03:00 PM-04:00 PM]	0	1	2	3	4	3	6	0	1	0	0	0	0	0	0	20
04/13/2004 [04:00 PM-05:00 PM]	0	0	4	3	3	2	0	2	0	0	0	0	0	0	0	14
04/13/2004 [05:00 PM-06:00 PM]	0	2	1	7	2	0	0	3	0	0	1	1	0	0	0	17
04/13/2004 [06:00 PM-07:00 PM]	0	0	3	7	3	0	1	0	0	0	0	0	0	0	0	14
04/13/2004 [07:00 PM-08:00 PM]	0	0	1	3	6	1	4	0	0	0	0	0	0	0	0	15
04/13/2004 [08:00 PM-09:00 PM]	0	0	1	6	4	2	1	1	0	0	0	0	0	0	0	15
04/13/2004 [09:00 PM-10:00 PM]	0	0	1	1	1	1	2	1	0	1	0	0	0	0	0	8
04/13/2004 [10:00 PM-11:00 PM]	0	0	0	0	0	1	0	1	2	1	0	0	0	0	0	5
04/13/2004 [11:00 PM-12:00 AM]	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2

Daily Totals: 0 3 14 33 31 23 14 10 3 2 1 1 0 0 0 135

04/14/2004 [12:00 AM-01:00 AM]	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
04/14/2004 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/14/2004 [02:00 AM-03:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/14/2004 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/14/2004 [04:00 AM-05:00 AM]	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
04/14/2004 [05:00 AM-06:00 AM]	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	4
04/14/2004 [06:00 AM-07:00 AM]	0	1	0	2	5	4	4	1	1	0	0	0	1	1	0	20
04/14/2004 [07:00 AM-08:00 AM]	0	0	1	2	10	15	11	2	0	0	0	0	1	0	1	43
04/14/2004 [08:00 AM-09:00 AM]	0	1	0	2	7	19	4	0	1	0	0	0	0	0	0	34
04/14/2004 [09:00 AM-10:00 AM]	0	0	0	0	2	4	3	1	0	0	0	0	0	0	0	10
04/14/2004 [10:00 AM-11:00 AM]	0	0	1	3	2	2	2	0	0	0	0	0	0	0	0	10
04/14/2004 [11:00 AM-12:00 PM]	0	0	1	2	0	3	1	0	0	0	0	1	0	0	0	8
04/14/2004 [12:00 PM-01:00 PM]	0	0	0	2	4	2	3	0	1	0	0	0	0	0	0	12
04/14/2004 [01:00 PM-02:00 PM]	0	0	0	1	3	0	1	1	0	0	0	0	0	0	0	6
04/14/2004 [02:00 PM-03:00 PM]	0	0	3	2	1	9	5	0	0	0	0	0	0	0	0	20
04/14/2004 [03:00 PM-04:00 PM]	0	0	1	3	6	9	5	2	0	0	0	0	0	0	0	26
04/14/2004 [04:00 PM-05:00 PM]	0	0	2	1	1	3	2	0	0	0	0	0	0	0	0	9
04/14/2004 [05:00 PM-06:00 PM]	0	0	2	5	1	3	1	1	0	0	0	0	0	0	0	13
04/14/2004 [06:00 PM-07:00 PM]	0	0	2	4	1	0	2	0	0	2	0	0	0	1	0	12
04/14/2004 [07:00 PM-08:00 PM]	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	4
04/14/2004 [08:00 PM-09:00 PM]	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
04/14/2004 [09:00 PM-10:00 PM]	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
04/14/2004 [10:00 PM-11:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Time/Speed Report

HI-Star ID: 2963	Begin: 04/13/2004 02:00 PM	End: 04/15/2004 02:00 PM
Street: S.B. Edson bet Madison&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 551
County: DuPage	AADT Factor: 1	AADT Count: 276

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		

04/14/2004 [11:00 PM-12:00 AM]	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
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Daily Totals:	0		17	48		45		3		0		2		1		244
		2		36		76		9		2		1		2		

04/15/2004 [12:00 AM-01:00 AM]	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3
04/15/2004 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/15/2004 [02:00 AM-03:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/15/2004 [03:00 AM-04:00 AM]	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
04/15/2004 [04:00 AM-05:00 AM]	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04/15/2004 [05:00 AM-06:00 AM]	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
04/15/2004 [06:00 AM-07:00 AM]	0	1	0	3	2	3	6	3	0	0	0	0	0	0	0	18
04/15/2004 [07:00 AM-08:00 AM]	0	0	1	4	7	21	12	1	1	0	0	0	0	0	0	47
04/15/2004 [08:00 AM-09:00 AM]	0	0	1	1	6	14	6	2	0	1	0	0	0	0	0	31
04/15/2004 [09:00 AM-10:00 AM]	0	0	1	1	2	3	0	0	0	0	0	0	0	0	0	7
04/15/2004 [10:00 AM-11:00 AM]	0	0	0	3	4	3	2	1	1	1	0	0	0	0	0	15
04/15/2004 [11:00 AM-12:00 PM]	0	0	0	0	2	8	1	0	0	0	0	1	0	0	0	12
04/15/2004 [12:00 PM-01:00 PM]	0	0	0	1	4	9	2	0	0	0	0	0	0	0	0	16
04/15/2004 [01:00 PM-02:00 PM]	0	0	1	1	2	7	3	0	1	0	0	0	0	0	0	15

Daily Totals:	0		5	33		33		3		0		0		0		171
		1		17		69		7		2		1		0		

Report Totals:	0		36	112		92		9		1		2		1		550
		6		86		168		26		6		3		2		

Report Percentages: 0.00% 6.55% 20.36% 16.73% 1.64% 0.18% 0.36% 0.18%
 1.09% 15.64% 30.55% 4.73% 1.09% 0.55% 0.36%

**Nu-Metrics Traffic Analyzer Study
Computer Generated Summary Report
City: Lombard
Street: N.B. Edson bet Madison&Hickory**

A study of vehicle traffic was conducted with HI-STAR unit number 809. The study was done in the lane on N.B. Edson bet Madison&Hickory in Lombard, Il in DuPage county. The study began on 04/13/2004 at 02:00 PM and concluded on 04/15/2004 at 02:00 PM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 966 vehicles passed through the location with a peak volume of 60 on 04/13/2004 at 05:00 PM and a minimum volume of 0 on 04/14/2004 at 03:00 AM. The AADT Count for this study was 483.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 >
0	10	33	60	166	329	238	80	24	4	6	6	5	3	2

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 31 mph with 38.1 percent exceeding the posted speed of 30 mph. The HI-STAR found 38.1 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 35.19 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
926	25	10	3	2	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 951 which represents 98.40 percent of the total classified vehicles. The number of Small Trucks in the study was 10 which represents 1.00 percent of the total classified vehicles. The number of Trucks/Busses in the study was 3 which represents 0.30 percent of the total classified vehicles. The number of Tractor Trailers in the study was 2 which represents 0.20 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 04/13/2004 at 05:00 PM the average headway between the vehicles was 59.02 seconds. The slowest traffic period was on 04/14/2004 at 03:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 37 and 105 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

Time/Speed Report

HI-Star ID: 809	Begin: 04/13/2004 02:00 PM	End: 04/15/2004 02:00 PM
Street: N.B. Edson bet Madison&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 966
County: DuPage	AADT Factor: 1	AADT Count: 483

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		
04/13/2004 [02:00 PM-03:00 PM]	0	0	1	1	4	6	9	0	0	0	0	0	0	0	0	21
04/13/2004 [03:00 PM-04:00 PM]	0	0	2	2	3	14	8	2	2	0	0	0	0	1	0	34
04/13/2004 [04:00 PM-05:00 PM]	0	0	0	3	7	15	9	4	2	0	0	0	1	0	0	41
04/13/2004 [05:00 PM-06:00 PM]	0	0	0	1	4	25	17	8	4	0	0	1	0	0	0	60
04/13/2004 [06:00 PM-07:00 PM]	0	0	2	3	7	15	11	4	0	0	0	0	0	0	0	42
04/13/2004 [07:00 PM-08:00 PM]	0	0	0	1	7	17	8	0	0	0	0	0	0	0	0	33
04/13/2004 [08:00 PM-09:00 PM]	0	0	3	5	4	8	0	0	0	0	0	0	0	0	0	20
04/13/2004 [09:00 PM-10:00 PM]	0	2	1	1	2	4	4	2	0	0	0	0	0	0	0	16
04/13/2004 [10:00 PM-11:00 PM]	0	1	0	0	4	5	0	1	0	0	0	0	0	0	0	11
04/13/2004 [11:00 PM-12:00 AM]	0	0	0	0	2	1	2	1	0	0	0	0	0	0	0	6
Daily Totals:	0	3	9	17	44	110	68	22	8	0	0	1	1	1	0	284
04/14/2004 [12:00 AM-01:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04/14/2004 [01:00 AM-02:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04/14/2004 [02:00 AM-03:00 AM]	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
04/14/2004 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/14/2004 [04:00 AM-05:00 AM]	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	3
04/14/2004 [05:00 AM-06:00 AM]	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	3
04/14/2004 [06:00 AM-07:00 AM]	0	0	2	1	0	3	2	1	1	0	0	0	0	0	0	10
04/14/2004 [07:00 AM-08:00 AM]	0	0	0	1	2	7	16	5	0	0	0	0	0	0	0	31
04/14/2004 [08:00 AM-09:00 AM]	0	0	4	3	4	12	7	3	0	0	0	0	0	0	0	33
04/14/2004 [09:00 AM-10:00 AM]	0	0	1	1	4	4	6	1	0	0	0	0	1	0	0	18
04/14/2004 [10:00 AM-11:00 AM]	0	1	0	1	2	3	3	3	0	0	0	0	0	0	0	13
04/14/2004 [11:00 AM-12:00 PM]	0	1	1	2	2	4	2	1	0	1	0	0	0	0	0	14
04/14/2004 [12:00 PM-01:00 PM]	0	0	0	0	1	8	3	2	0	0	0	0	0	0	0	14
04/14/2004 [01:00 PM-02:00 PM]	0	0	0	0	5	7	10	5	1	0	0	0	0	0	0	28
04/14/2004 [02:00 PM-03:00 PM]	0	0	2	1	5	9	11	6	1	0	0	0	1	0	0	36
04/14/2004 [03:00 PM-04:00 PM]	0	0	0	0	5	16	6	2	1	0	3	1	0	1	0	35
04/14/2004 [04:00 PM-05:00 PM]	0	1	1	7	12	14	13	3	1	0	0	0	0	0	0	52
04/14/2004 [05:00 PM-06:00 PM]	0	1	2	2	7	17	19	1	0	0	0	1	1	0	1	52
04/14/2004 [06:00 PM-07:00 PM]	0	0	4	4	14	23	9	1	1	0	0	1	0	0	0	57
04/14/2004 [07:00 PM-08:00 PM]	0	0	1	1	16	8	4	2	0	0	0	0	0	0	0	32
04/14/2004 [08:00 PM-09:00 PM]	0	1	3	3	5	8	4	2	1	0	0	0	0	0	0	27
04/14/2004 [09:00 PM-10:00 PM]	0	1	0	6	7	8	5	2	2	1	1	0	0	0	1	34
04/14/2004 [10:00 PM-11:00 PM]	0	0	0	0	0	6	1	0	0	0	1	0	0	0	0	8

Time/Speed Report

HI-Star ID: 809	Begin: 04/13/2004 02:00 PM	End: 04/15/2004 02:00 PM
Street: N.B. Edson bet Madison&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 966
County: DuPage	AADT Factor: 1	AADT Count: 483

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		

04/14/2004 [11:00 PM-12:00 AM]	0	1	0	2	2	2	0	1	0	0	0	0	0	0	0	8
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Daily Totals:	0		21		94		123		9		6		3		2	
		7		36		163		42		2		3		1		512

04/15/2004 [12:00 AM-01:00 AM]	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	5
04/15/2004 [01:00 AM-02:00 AM]	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2
04/15/2004 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/15/2004 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
04/15/2004 [04:00 AM-05:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/15/2004 [05:00 AM-06:00 AM]	0	0	0	0	0	2	4	0	0	0	0	1	0	0	0	7
04/15/2004 [06:00 AM-07:00 AM]	0	0	1	1	4	4	3	2	1	0	0	0	0	0	0	16
04/15/2004 [07:00 AM-08:00 AM]	0	0	0	0	3	7	7	1	2	1	0	0	0	0	0	21
04/15/2004 [08:00 AM-09:00 AM]	0	0	0	0	6	6	5	4	1	0	0	0	0	1	0	23
04/15/2004 [09:00 AM-10:00 AM]	0	0	0	0	1	4	4	2	1	0	0	0	0	0	0	12
04/15/2004 [10:00 AM-11:00 AM]	0	0	0	2	4	6	4	2	0	0	0	0	0	0	0	18
04/15/2004 [11:00 AM-12:00 PM]	0	0	1	2	3	1	2	0	0	0	0	0	0	0	0	9
04/15/2004 [12:00 PM-01:00 PM]	0	0	1	0	4	6	7	4	1	0	0	0	1	0	0	24
04/15/2004 [01:00 PM-02:00 PM]	0	0	0	2	1	17	9	1	0	1	0	0	0	0	0	31

Daily Totals:	0		3		28		47		7		0		1		0	
		0		7		56		16		2		2		1		170

Report Totals:	0		33		166		238		24		6		5		2	
		10		60		329		80		4		6		3		966

Report Percentages:	0.00%	3.42%	17.18%	24.64%	2.48%	0.62%	0.52%	0.21%								
		1.04%	6.21%	34.06%	8.28%	0.41%	0.62%	0.31%								

**Nu-Metrics Traffic Analyzer Study
Computer Generated Summary Report
City: Lombard
Street: S.B. Edson bet Maple&Hickory**

A study of vehicle traffic was conducted with HI-STAR unit number 811. The study was done in the lane on S.B. Edson bet Maple&Hickory in Lombard, Il in DuPage county. The study began on 04/20/2004 at 09:00 AM and concluded on 04/22/2004 at 09:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 668 vehicles passed through the location with a peak volume of 45 on 04/21/2004 at 05:00 PM and a minimum volume of 0 on 04/21/2004 at 12:00 AM. The AADT Count for this study was 334.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
9	14	19	24	29	34	39	44	49	54	59	64	69	74	
0	18	70	119	212	169	52	14	4	1	3	1	2	0	2

At least half of the vehicles were traveling in the 25 - 29 mph range or a lower speed. The average speed for all classified vehicles was 26 mph with 11.8 percent exceeding the posted speed of 30 mph. The HI-STAR found 11.8 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 29.88 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
624	26	13	4	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 650 which represents 97.50 percent of the total classified vehicles. The number of Small Trucks in the study was 13 which represents 1.90 percent of the total classified vehicles. The number of Trucks/Busses in the study was 4 which represents 0.60 percent of the total classified vehicles. The number of Tractor Trailers in the study was 0 which represents 0.00 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 04/21/2004 at 05:00 PM the average headway between the vehicles was 78.26 seconds. The slowest traffic period was on 04/21/2004 at 12:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 50 and 85 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 20.83 percent of the time.

Time/Speed Report

HI-Star ID: 811	Begin: 04/20/2004 09:00 AM	End: 04/22/2004 09:00 AM
Street: S.B. Edson bet Maple&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 668
County: DuPage	AADT Factor: 1	AADT Count: 334

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		
04/20/2004 [09:00 AM-10:00 AM]	0	0	2	0	2	5	3	1	0	0	0	0	0	0	0	13
04/20/2004 [10:00 AM-11:00 AM]	0	0	1	3	4	1	0	1	0	0	0	0	0	0	0	10
04/20/2004 [11:00 AM-12:00 PM]	0	1	0	5	3	4	2	0	0	0	0	0	0	0	0	15
04/20/2004 [12:00 PM-01:00 PM]	0	0	0	0	6	3	1	0	0	0	0	0	0	0	0	10
04/20/2004 [01:00 PM-02:00 PM]	0	1	4	2	4	4	1	0	0	0	0	0	0	0	1	17
04/20/2004 [02:00 PM-03:00 PM]	0	1	4	8	10	8	2	2	0	0	0	0	0	0	0	35
04/20/2004 [03:00 PM-04:00 PM]	0	3	6	3	4	8	4	0	1	0	1	1	0	0	0	31
04/20/2004 [04:00 PM-05:00 PM]	0	1	2	0	12	9	4	1	1	0	0	0	0	0	0	30
04/20/2004 [05:00 PM-06:00 PM]	0	0	3	4	9	17	3	0	0	0	0	0	0	0	0	36
04/20/2004 [06:00 PM-07:00 PM]	0	0	2	5	4	6	2	1	0	0	0	0	1	0	0	21
04/20/2004 [07:00 PM-08:00 PM]	0	0	1	3	6	2	0	0	0	0	0	0	0	0	0	12
04/20/2004 [08:00 PM-09:00 PM]	0	0	1	1	9	4	0	0	0	0	0	0	0	0	0	15
04/20/2004 [09:00 PM-10:00 PM]	0	0	0	0	5	1	1	0	0	0	0	0	0	0	0	7
04/20/2004 [10:00 PM-11:00 PM]	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	4
04/20/2004 [11:00 PM-12:00 AM]	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Daily Totals:	0	7	26	36	82	72	23	6	2	0	1	1	1	0	1	258
04/21/2004 [12:00 AM-01:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/2004 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/2004 [02:00 AM-03:00 AM]	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2
04/21/2004 [03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/2004 [04:00 AM-05:00 AM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04/21/2004 [05:00 AM-06:00 AM]	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3
04/21/2004 [06:00 AM-07:00 AM]	0	0	0	1	5	2	1	0	0	0	0	0	0	0	0	9
04/21/2004 [07:00 AM-08:00 AM]	0	0	1	8	15	13	3	0	0	0	1	0	0	0	0	41
04/21/2004 [08:00 AM-09:00 AM]	0	1	3	0	9	4	0	2	0	0	0	0	1	0	0	20
04/21/2004 [09:00 AM-10:00 AM]	0	1	2	1	3	1	0	1	0	0	0	0	0	0	0	9
04/21/2004 [10:00 AM-11:00 AM]	0	0	1	2	4	2	0	0	0	0	0	0	0	0	0	9
04/21/2004 [11:00 AM-12:00 PM]	0	2	6	5	2	0	0	0	0	0	0	0	0	0	0	15
04/21/2004 [12:00 PM-01:00 PM]	0	0	0	5	1	1	4	1	0	0	0	0	0	0	0	12
04/21/2004 [01:00 PM-02:00 PM]	0	0	2	3	5	1	0	0	0	0	0	0	0	0	0	11
04/21/2004 [02:00 PM-03:00 PM]	0	2	4	4	2	3	1	0	0	1	0	0	0	0	0	17
04/21/2004 [03:00 PM-04:00 PM]	0	0	0	4	3	5	0	2	0	0	0	0	0	0	0	14
04/21/2004 [04:00 PM-05:00 PM]	0	0	3	9	8	8	3	1	0	0	1	0	0	0	0	33
04/21/2004 [05:00 PM-06:00 PM]	0	0	1	1	19	18	4	1	0	0	0	0	0	0	1	45
04/21/2004 [06:00 PM-07:00 PM]	0	2	6	7	8	7	4	0	0	0	0	0	0	0	0	34
04/21/2004 [07:00 PM-08:00 PM]	0	0	3	3	5	3	1	0	1	0	0	0	0	0	0	16
04/21/2004 [08:00 PM-09:00 PM]	0	0	2	7	2	5	0	0	0	0	0	0	0	0	0	16
04/21/2004 [09:00 PM-10:00 PM]	0	0	1	7	2	3	1	0	0	0	0	0	0	0	0	14
04/21/2004 [10:00 PM-11:00 PM]	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	8

Time/Speed Report

HI-Star ID: 811	Begin: 04/20/2004 09:00 AM	End: 04/22/2004 09:00 AM
Street: S.B. Edson bet Maple&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 668
County: DuPage	AADT Factor: 1	AADT Count: 334

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		

04/21/2004 [11:00 PM-12:00 AM] 0 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 4

Daily Totals: 0 37 99 23 2 2 1 0 1 1 333

 9 74 76 8 1 0 0 1 0 0 0

04/22/2004 [12:00 AM-01:00 AM] 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 3

04/22/2004 [01:00 AM-02:00 AM] 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1

04/22/2004 [02:00 AM-03:00 AM] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

04/22/2004 [03:00 AM-04:00 AM] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

04/22/2004 [04:00 AM-05:00 AM] 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1

04/22/2004 [05:00 AM-06:00 AM] 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1

04/22/2004 [06:00 AM-07:00 AM] 0 0 3 0 3 2 2 0 0 0 0 0 0 0 0 0 10

04/22/2004 [07:00 AM-08:00 AM] 0 0 1 4 11 14 3 0 0 0 0 0 0 0 0 0 33

04/22/2004 [08:00 AM-09:00 AM] 0 2 2 3 14 5 1 0 0 0 0 0 0 0 0 0 27

Daily Totals: 0 7 31 6 0 0 0 0 0 0 76

 2 9 21 0 0 0 0 0 0 0 0

Report Totals: 0 70 212 52 4 3 2 2 2 2 667

 18 119 169 14 1 1 1 0 0 0 0

Report Percentages: 0.00% 10.49% 31.78% 7.80% 0.60% 0.45% 0.30% 0.30%

 2.70% 17.84% 25.34% 2.10% 0.15% 0.15% 0.00%

**Nu-Metrics Traffic Analyzer Study
Computer Generated Summary Report
City: Lombard
Street: N.B. Edson bet Maple&Hickory**

A study of vehicle traffic was conducted with HI-STAR unit number 8230. The study was done in the lane on N.B. Edson bet Maple&Hickory in Lombard, Il in DuPage county. The study began on 04/20/2004 at 09:00 AM and concluded on 04/22/2004 at 09:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 658 vehicles passed through the location with a peak volume of 40 on 04/21/2004 at 06:00 PM and a minimum volume of 0 on 04/22/2004 at 01:00 AM. The AADT Count for this study was 329.

SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1

0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to	to	to	to	to	to	to	to	to	to	to	to	to	to	>
9	14	19	24	29	34	39	44	49	54	59	64	69	74	
0	9	13	41	140	245	150	32	16	5	4	0	0	0	1

At least half of the vehicles were traveling in the 30 - 34 mph range or a lower speed. The average speed for all classified vehicles was 30 mph with 31.7 percent exceeding the posted speed of 30 mph. The HI-STAR found 31.7 percent of the total vehicles were traveling in excess of 30 mph. The mode speed for this traffic study was 30 mph and the 85th percentile was 34.15 mph.

CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2

0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
634	18	1	3	0	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 652 which represents 99.40 percent of the total classified vehicles. The number of Small Trucks in the study was 1 which represents 0.20 percent of the total classified vehicles. The number of Trucks/Busses in the study was 3 which represents 0.50 percent of the total classified vehicles. The number of Tractor Trailers in the study was 0 which represents 0.00 percent of the total classified vehicles.

HEADWAY

During the peak time period, on 04/21/2004 at 06:00 PM the average headway between the vehicles was 87.8 seconds. The slowest traffic period was on 04/22/2004 at 01:00 AM. During this slowest period, the average headway was 3600.0 seconds.

WEATHER

The roadway surface temperature over the period of the study varied between 50 and 87 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 68.75 percent of the time.

Time/Speed Report

HI-Star ID: 8230	Begin: 04/20/2004 09:00 AM	End: 04/22/2004 09:00 AM
Street: N.B. Edson bet Maple&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 658
County: DuPage	AADT Factor: 1	AADT Count: 329

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		
04/20/2004 [09:00 AM-10:00 AM]	0	0	0	2	1	3	2	0	0	0	0	0	0	0	0	8
04/20/2004 [10:00 AM-11:00 AM]	0	0	0	4	2	1	3	1	1	0	0	0	0	0	0	12
04/20/2004 [11:00 AM-12:00 PM]	0	0	0	0	3	1	0	0	0	1	0	0	0	0	0	5
04/20/2004 [12:00 PM-01:00 PM]	0	1	1	0	2	5	3	0	1	0	0	0	0	0	0	13
04/20/2004 [01:00 PM-02:00 PM]	0	0	2	5	2	5	5	0	0	0	0	0	0	0	0	19
04/20/2004 [02:00 PM-03:00 PM]	0	1	1	0	6	9	8	0	1	0	0	0	0	0	0	26
04/20/2004 [03:00 PM-04:00 PM]	0	0	0	2	9	8	5	1	0	0	0	0	0	0	0	25
04/20/2004 [04:00 PM-05:00 PM]	0	0	0	0	6	13	11	0	1	0	1	0	0	0	0	32
04/20/2004 [05:00 PM-06:00 PM]	0	0	0	2	4	12	6	1	1	0	0	0	0	0	0	26
04/20/2004 [06:00 PM-07:00 PM]	0	0	1	2	5	17	7	0	1	0	0	0	0	0	0	33
04/20/2004 [07:00 PM-08:00 PM]	0	1	0	4	7	4	2	1	0	0	0	0	0	0	0	19
04/20/2004 [08:00 PM-09:00 PM]	0	0	0	0	3	6	3	1	1	0	1	0	0	0	0	15
04/20/2004 [09:00 PM-10:00 PM]	0	0	1	0	3	3	1	0	0	0	0	0	0	0	0	8
04/20/2004 [10:00 PM-11:00 PM]	0	0	0	0	2	1	1	1	0	0	0	0	0	0	0	5
04/20/2004 [11:00 PM-12:00 AM]	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Daily Totals:	0	3	6	22	56	88	6	7	1	2	0	0	0	0	0	248
04/21/2004 [12:00 AM-01:00 AM]	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
04/21/2004 [01:00 AM-02:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/21/2004 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
04/21/2004 [03:00 AM-04:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/21/2004 [04:00 AM-05:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/21/2004 [05:00 AM-06:00 AM]	0	0	0	0	1	0	2	0	2	0	0	0	0	0	0	5
04/21/2004 [06:00 AM-07:00 AM]	0	1	0	0	3	6	7	1	0	0	0	0	0	0	0	18
04/21/2004 [07:00 AM-08:00 AM]	0	0	0	1	4	12	5	1	0	0	0	0	0	0	0	23
04/21/2004 [08:00 AM-09:00 AM]	0	0	0	0	1	9	7	2	0	0	0	0	0	0	0	19
04/21/2004 [09:00 AM-10:00 AM]	0	0	0	1	0	1	2	1	0	0	0	0	0	0	1	6
04/21/2004 [10:00 AM-11:00 AM]	0	0	0	1	4	5	4	1	0	0	0	0	0	0	0	15
04/21/2004 [11:00 AM-12:00 PM]	0	0	2	0	7	10	3	1	0	0	0	0	0	0	0	23
04/21/2004 [12:00 PM-01:00 PM]	0	0	0	0	7	2	2	0	0	0	0	0	0	0	0	11
04/21/2004 [01:00 PM-02:00 PM]	0	0	0	1	3	6	2	0	0	0	0	0	0	0	0	12
04/21/2004 [02:00 PM-03:00 PM]	0	0	0	2	4	8	1	1	0	1	0	0	0	0	0	17
04/21/2004 [03:00 PM-04:00 PM]	0	0	1	2	1	9	5	0	0	0	0	0	0	0	0	18
04/21/2004 [04:00 PM-05:00 PM]	0	1	2	2	4	6	8	1	1	1	0	0	0	0	0	26
04/21/2004 [05:00 PM-06:00 PM]	0	1	1	1	3	16	9	2	0	0	0	0	0	0	0	33
04/21/2004 [06:00 PM-07:00 PM]	0	1	0	2	7	14	13	3	0	0	0	0	0	0	0	40
04/21/2004 [07:00 PM-08:00 PM]	0	0	0	0	7	13	3	3	1	0	0	0	0	0	0	27
04/21/2004 [08:00 PM-09:00 PM]	0	1	0	0	3	2	3	1	1	0	0	0	0	0	0	11
04/21/2004 [09:00 PM-10:00 PM]	0	1	0	2	4	5	1	0	0	0	0	0	0	0	0	13
04/21/2004 [10:00 PM-11:00 PM]	0	0	0	0	1	0	2	0	1	0	0	0	0	0	0	4

Time/Speed Report

HI-Star ID: 8230	Begin: 04/20/2004 09:00 AM	End: 04/22/2004 09:00 AM
Street: N.B. Edson bet Maple&Hickory	Lane:	Hours: 48:00
State: IL	Oper: EP	Period: 60
City: Lombard	Posted: 30	Raw Count: 658
County: DuPage	AADT Factor: 1	AADT Count: 329

NC97 - mph	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
Date & Time Range	to	to	to	to	to	to	to	to	to	to	to	to	to	to	>	Total
	9	14	19	24	29	34	39	44	49	54	59	64	69	74		
04/21/2004 [11:00 PM-12:00 AM]	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0	4
Daily Totals:	0		6		68		79		7		1		0		1	
		6		16		127		19		2		0		0		332
04/22/2004 [12:00 AM-01:00 AM]	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	3
04/22/2004 [01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/22/2004 [02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/22/2004 [03:00 AM-04:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04/22/2004 [04:00 AM-05:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
04/22/2004 [05:00 AM-06:00 AM]	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	6
04/22/2004 [06:00 AM-07:00 AM]	0	0	1	1	4	8	3	2	0	1	0	0	0	0	0	20
04/22/2004 [07:00 AM-08:00 AM]	0	0	0	1	3	11	8	4	2	0	1	0	0	0	0	30
04/22/2004 [08:00 AM-09:00 AM]	0	0	0	0	6	5	3	1	0	0	0	0	0	0	0	15
Daily Totals:	0		1		16		14		2		1		0		0	
		0		3		30		7		2		0		0		76
Report Totals:	0		13		140		150		16		4		0		1	
		9		41		245		32		5		0		0		656
Report Percentages:	0.00%	1.98%	21.34%	22.87%	2.44%	0.61%	0.00%	0.15%								
		1.37%	6.25%	37.35%	4.88%	0.76%	0.00%	0.00%								