



To:

Wes Anderson, Director of Public Works

From:

Justine Gembala, PE, Civil Engineer

Date:

May 27, 2005

Subject:

Request for Traffic Control at Fairview Avenue and Morris Court

Ms. Lamb, 708 Morris Court, called Public Works requesting stop signs at Fairview Avenue and Morris Court. Fairview Avenue forms a T-intersection at Morris Court with Morris Court ending in a cul-de-sac to the west. There is a small evergreen on the northwest corner of the intersection. This creates a Critical Approach Speed (CAS) of 19 MPH. When a CAS is under 10 MPH, stop signs should be used to control traffic. When a CAS is between 10 - 15 MPH, yield signs should be used to control traffic.

The traffic analyzer 48-hour speed surveys revealed that most motorists are traveling at a speed of 31 MPH or less when traveling on Morris Court and 35 MPH or less when traveling southbound on Fairview Avenue.

Accident reports were run from January 2003 through December 2004. No accidents occurred at this intersection.

Based on the above information, it is recommended that the intersection of Fairview Avenue at Morris Court remain with no traffic control at this time.

This item will be on the June 6, 2005 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:

Ms. Lamb, 708 Morris Ct. Steve Sebby, Trustee, District 4 Rick Soderstrom, Trustee, District 6 Transportation and Safety Committee

### Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Lombard

Street: SB Fairview at Morris

A study of vehicle traffic was conducted with HI-STAR unit number 2262. The study was done in the lane on SB Fairview at Morris in Lombard, IL in DuPage county. The study began on 04/26/2005 at 11:00 AM and concluded on 04/28/2005 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 517 vehicles passed through the location with a peak volume of 32 on 04/26/2005 at 06:00 PM and a minimum volume of 0 on 04/27/2005 at 01:00 AM. The AADT Count for this study was 258.

#### <u>SPEED</u>

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

							(	Chart 1	1						
ſ	0	10	15	20	25	30	35	40	45	50	55	60 -	65	70	75
	to 9	to 14	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	to 74	>
ľ	0	11	33	62	173	171	49	7	4	2	3	1	1	0	0

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 29 mph with 46.0 percent exceeding the posted speed of 30 mph. The HI-STAR found 0.97 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 34.69 mph.

### CLASSIFICATION

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

			Ch	art 2			
0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
445	50	16	3	2	1	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 495 which represents 95.70 percent of the total classified vehicles. The number of Small Trucks in the study was 16 which represents 3.10 percent of the total classified vehicles. The number of Trucks/Buses in the study was 3 which represents 0.60 percent of the total classified vehicles. The number of Tractor Trailers in the study was 3 which represents 0.60 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 04/26/2005 at 06:00 PM the average headway between the vehicles was 109.09 seconds. The slowest traffic period was on 04/27/2005 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 46 and 70 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

05/18/2005 Page: 1

HI-Star ID: 2262			Beg Lan		4/26	/2005	5 11:0	00 A	M			4/28/ 48:0		5 11:0	00 A1	√l
Street: SB Fairview at Mo	orris												,0			
State: IL				r: E							eriod:					
City: Lombard			Pos	ted:	30							ount:				- 1
County: DuPage			AAD	OT Fa	actor:	1				AA	ADT (	Coun	t: 25	8		
	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	>	T-4-1
NC97 - mph	9	14	19	24	29	34	39	44	49	54	59	64	69	74		Total
04/26/2005																
[11:00 AM-12:00 PM]	0	0	2	0	6	2	0	0	0	0	0	0	0	0	0	10
[12:00 PM-01:00 PM]	0	0	0	4	5	1	0	0	0	0	0	0	0	0	0	10
[01:00 PM-02:00 PM]	0	0	0	0	6	8	2	0	0	0	0	0	0	0	0	16
[02:00 PM-03:00 PM]	0	0	1	4	1	0	1	0	0	0	0	0	0	0	0	7
[03:00 PM-04:00 PM]	0	0	1	2	1	11	0	1	0	0	0	0	0	0	0	16
[04:00 PM-05:00 PM]	0	0	1	0	10	9	1	0	0	0	0	0	0	0	0	21
[05:00 PM-06:00 PM]	0	1	2	1	9	13	4	0	0	0	1	0	0	0	0	31
[06:00 PM-07:00 PM]	0	0	1	6	10	10	4	0	0	1	0	0	0	0	0	32
[07:00 PM-08:00 PM]	0	1	1	2	6	7	6	1	0	0	0	0	0	0	0	24
[08:00 PM-09:00 PM]	0	0	1	2	5	6	2	0	0	0	0	0	0	0	0	16
[09:00 PM-10:00 PM]	0	1	1	0	2	0	2	0	0	0	0	0	0	0	0	6
[10:00 PM-11:00 PM]	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	3
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04/27/2005

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[05:00 AM-06:00 AM]	0	0	0	1	6	0	1	0	0	0	0	0	(		0	0	8
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[11:00 AM-12:00 PM]	0	0	0	3	7	3	1	0	0	0	0	0			0	0	14
[12:00 PM-01:00 PM]	0	0	2	2	4	6	2	0	0	1	0	0			0	0	17
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[03:00 PM-04:00 PM]	0	0	0	4	4	6	1	0	0	0	0	0			0	0	15
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[06:00 PM-07:00 PM]	0	1	0	1	13	6	2	1	0	0	0	0		-	0	0	24
[07:00 PM-08:00 PM]	0	0	1	2	4	3	2	0	0	0	0	0			0	0	12
[08:00 PM-09:00 PM]	0	0	1	4	2	5	0	1	0	ō	0	0			0	0	13
[09:00 PM-10:00 PM]	0	0	1	1	3	1	0	0	0	0	0	0			0	0	6
[10:00 PM-11:00 PM]	0	0	0	0	3	0	0	0	0	0	0	0			0	0	3
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[07:00 AM-08:00 AM]	0	1	3	3	6	10	1	0	1	0	1	C	)	0	0	0	26
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### Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Lombard

Street: EB Morris at Fairview

A study of vehicle traffic was conducted with HI-STAR unit number 7961. The study was done in the lane on EB Morris at Fairview in Lombard, IL in DuPage county. The study began on 04/26/2005 at 11:00 AM and concluded on 04/28/2005 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 72 vehicles passed through the location with a peak volume of 6 on 04/27/2005 at 08:00 AM and a minimum volume of 0 on 04/26/2005 at 09:00 PM. The AADT Count for this study was 36.

#### SPEED

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

						(	Chart '							
0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
to 9	to 14	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	to 74	>
0	8	20	23	12	6	0	0	0	1	0	0	0	0	0

At least half of the vehicles were traveling in the 20 - 24 mph range or a lower speed. The average speed for all classified vehicles was 22 mph with 10.0 percent exceeding the posted speed of 30 mph. The HI-STAR found 0.00 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 20 mph and the 85th percentile was 28.54 mph.

### CLASSIFICATION

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

				art 2			
0	21	28	40	50	60	70	80
to	to	to	to	to	to	to	>
20	27	39	49	59	69	79	
66	1	1	0	2	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 67 which represents 95.70 percent of the total classified vehicles. The number of Small Trucks in the study was 1 which represents 1.40 percent of the total classified vehicles. The number of Trucks/Buses in the study was 0 which represents 0.00 percent of the total classified vehicles. The number of Tractor Trailers in the study was 2 which represents 2.90 percent of the total classified vehicles.

### **HEADWAY**

During the peak time period, on 04/27/2005 at 08:00 AM the average headway between the vehicles was 514.29 seconds. The slowest traffic period was on 04/26/2005 at 09:00 PM. During this slowest period, the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 48 and 83 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

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NO07	to 9	to 14	to   19	to	to 29	to 34	to	to 44	to   49	to 54	to 59	to   64	to	to 74	>	Total
NC97 - mph	9	14	19	24	29	34	39	44	49	54	Ja	04	09	74		Total
04/26/2005																
[11:00 AM-12:00 PM]	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
[12:00 PM-01:00 PM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[01:00 PM-02:00 PM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[02:00 PM-03:00 PM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[03:00 PM-04:00 PM]	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
[04:00 PM-05:00 PM]	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
[05:00 PM-06:00 PM]	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	4
[06:00 PM-07:00 PM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[07:00 PM-08:00 PM]	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	4
[08:00 PM-09:00 PM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[09:00 PM-10:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[10:00 PM-11:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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04/27/2005

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NC97 - mph	9	14	19	24	29	34	39	44	49	54	59	64	69	74		Total
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[05:00 AM-06:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
[06:00 AM-07:00 AM]	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
[07:00 AM-08:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
[08:00 AM-09:00 AM]	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	4
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[09:00 AM-10:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[10:00 AM-11:00 AM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[11:00 AM-12:00 PM]	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
[12:00 PM-01:00 PM]	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
[01:00 PM-02:00 PM]	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	4
[02:00 PM-03:00 PM]	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
[03:00 PM-04:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[04:00 PM-05:00 PM]	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
[05:00 PM-06:00 PM]	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	6
[06:00 PM-07:00 PM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
[07:00 PM-08:00 PM]	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
[08:00 PM-09:00 PM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[09:00 PM-10:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[10:00 PM-11:00 PM]	0	0	1	0	0	0	0	0	0	0	0	·0	0	0	0	1
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04/28/2005																
[12:00 AM-01:00 AM]	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0
[01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[05:00 AM-06:00 AM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[06:00 AM-07:00 AM]	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
[07:00 AM-08:00 AM]	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	3
[08:00 AM-09:00 AM]	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	3
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NC97 - mph	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 >	Total
Report Totals:	(	0 ,	20	2;	12	2	3	)	0	)	1	0 (	(	)	0	70

Report Percentages: 0.00% 28.57% 17.14% 0.00% 0.00% 0.00% 0.00% 0.00% 11.43% 32.86% 8.57% 0.00% 1.43% 0.00% 0.00%

### Nu-Metrics Traffic Analyzer Study Computer Generated Summary Report City: Lombard

Street: WB Morris at Fairview

A study of vehicle traffic was conducted with HI-STAR unit number 2183. The study was done in the lane on WB Morris at Fairview in Lombard, IL in DuPage county. The study began on 04/26/2005 at 11:00 AM and concluded on 04/28/2005 at 11:00 AM, lasting a total of 48 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 165 vehicles passed through the location with a peak volume of 13 on 04/26/2005 at 05:00 PM and a minimum volume of 0 on 04/27/2005 at 12:00 AM. The AADT Count for this study was 82.

#### SPEED

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

								Chart 1	1						
Γ	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75
	to 9	to 14	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to . 69	to 74	>
	0	5	19	37	64	20	7	3	1	2	1	2	2	1	1

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 28 mph with 24.2 percent exceeding the posted speed of 30 mph. The HI-STAR found 4.24 percent of the total vehicles were traveling in excess of 55 mph. The mode speed for this traffic study was 25 mph and the 85th percentile was 33.81 mph.

### **CLASSIFICATION**

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

			Cn	art ∠			
0	21	28	40	50	60	70	80
to 20	to 27	to 39	to 49	to 59	to 69	to 79	>
146	8	8	2	1	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars in the study was 154 which represents 93.30 percent of the total classified vehicles. The number of Small Trucks in the study was 8 which represents 4.80 percent of the total classified vehicles. The number of Trucks/Buses in the study was 2 which represents 1.20 percent of the total classified vehicles. The number of Tractor Trailers in the study was 1 which represents 0.60 percent of the total classified vehicles.

### **HEADWAY**

During the peak time period, on 04/26/2005 at 05:00 PM the average headway between the vehicles was 257.14 seconds. The slowest traffic period was on 04/27/2005 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 48 and 85 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.

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HI-Star ID: 2183 Street: WB Morris at Fair State: IL	Lan Ope	e: er: El		/2005	5 11:0	00 A	Hours: 48:00 Period: 60										
City: Lombard County: DuPage	Posted: 30 AADT Factor: 1								Raw Count: 165  AADT Count: 82								
NC97 - mph	0 to 9	to to to to to to to								50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 >	Total	
04/26/2005																	
[11:00 AM-12:00 PM]	0	0	1	2	2	0	2	1	0	0	0	0	0	0	0	8	
[12:00 PM-01:00 PM]	0	0	1	1	3	0	1	0	0	0	1	0	0	0	0	7	
[01:00 PM-02:00 PM]	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3	
[02:00 PM-03:00 PM]	0	1	0	2	2	2	0	0	0	0	0	1	0	0	0	8	
[03:00 PM-04:00 PM]	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7	
[04:00 PM-05:00 PM]	0	0	1	3	5	1	0	0	0	0	0	0	0	0	0	10	
[05:00 PM-06:00 PM]	0	1	3	2	5	0	1	0	0	0	0	0	0	0	1	13	
[06:00 PM-07:00 PM]	0	0	0	3	3	0	0	0	0	0	0	0	1	0	0	7	
[07:00 PM-08:00 PM]	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	4	
[08:00 PM-09:00 PM]	0	0	0	1	1	1	0	1	0	1	0	0	0	0	0	5	
[09:00 PM-10:00 PM]	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	4	
[10:00 PM-11:00 PM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
[11:00 PM-12:00 AM]	0	$\frac{0}{2}$	<u>0</u>	<u>1</u> 18	0 32	<u>0</u>	<u>0</u>	$-\frac{0}{2}$	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u> 1	<u>0</u>	<u>0</u>	<u>0</u>	1 78	
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04/27/2005

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	0	10	15	20	25 to	30	35 to	40 to	45   to	50 to	55 to	60 to	65 to	70 to	75	
NC97 - mph	to	to 14	to 19	to	to   29	to	39	44	49	54	59	64	69	74		Tota!
	9	14	10	2.7	20	04	00		-10	0.1	00 1		00	' '		, oca,
04/27/2005	_	_	_	_	_	_	_	•	•	•	•	•	•	•	•	0
[12:00 AM-01:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[02:00 AM-03:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[05:00 AM-06:00 AM]	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
[06:00 AM-07:00 AM]	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
[07:00 AM-08:00 AM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[08:00 AM-09:00 AM]	0	0	0	0	1	1	0	1	0	0	0	1	0	0	0	4
[09:00 AM-10:00 AM]	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	3
[10:00 AM-11:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
[11:00 AM-12:00 PM]	0	1	0	3	3	2	0	0	0	0	0	0	0	0	0	9
[12:00 PM-01:00 PM]	0	0	1	1	2	2	0	0	0	0	0	0	0	0	0	6
[01:00 PM-02:00 PM]	0	0	0	3	4	0	0	0	0	1	0	0	0	1	0	9
[02:00 PM-03:00 PM]	0	1	0	0	4	6	0	0	1	0	0	0	0	0	0	12
[03:00 PM-04:00 PM]	0	1	1	4	2	1	0	0	0	0	0	0	1	0	0	10
[04:00 PM-05:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[05:00 PM-06:00 PM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[06:00 PM-07:00 PM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[07:00 PM-08:00 PM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[08:00 PM-09:00 PM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
[09:00 PM-10:00 PM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[10:00 PM-11:00 PM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[11:00 PM-12:00 AM]	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1_
	0	3	7	15	21	13	0	1	1	1	0	1	1	1	0	65
Daily Totals:		0		7	21	1	(	)		1	(	)		1		0
Dany Totals.	,		3	1		13			1		1		1		1	65
04/28/2005																
[12:00 AM-01:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[01:00 AM-02:00 AM]	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0
[02:00 AM-03:00 AM]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
[03:00 AM-04:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[04:00 AM-05:00 AM]	0	0	0	0	0	0	0	0	0	0	0	- 0	0	0	0	0
[05:00 AM-06:00 AM]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
[06:00 AM-07:00 AM]	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
[07:00 AM-08:00 AM]	0	0	1	2	3	0	1	0	0	0	0	0	0	0	0	7
[08:00 AM-09:00 AM]	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	4
[09:00 AM-10:00 AM]	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	4
[10:00 AM-11:00 AM]	0	0	1	0	4	_ 0	_ 0	0	0	0	0	0	0	0	0	5
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NC97 - mph	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 >	Total
Report Totals:	(	0 ,	19 5	3.	6 <sub>4</sub> 7	4 20		7	3	1 ;	2	1 2	2	2	1	1 165

Report Percentages: 0.00% 11.52% 38.79% 4.24% 0.61% 0.61% 1.21% 0.61% 3.03% 22.42% 12.12% 1.82% 1.21% 1.21% 0.61%

 $\frac{-i\gamma-1}{\gamma-1} = \frac{1-c}{\alpha-1}$