



**Maricopa County Sheriff's Office  
District II  
Traffic Speed Limit Analysis  
Location: Northbound Litchfield Rd N/O Bird Ln**



Data was collected by MCDOT for this stretch of road from September 19-30, 2018. MCDOT then provided MCSO with PDF versions of the report based on data collected.

The MCSO CRAU then exported the data from PDF format to MS Word where it was then exported to MS Excel so that additional analysis and formatting could be conducted for this report.

**Findings (All Percentages are rounded)**

9% of vehicles traveling this stretch of road are doing less than 40 MPH.

13% of vehicles traveling this stretch of road are doing 40 MPH.

89% of vehicles traveling this stretch of road are doing 40-55 MPH.

22% of vehicles traveling this stretch of road are doing 30-40 MPH.

78% of vehicles traveling this stretch of road are doing greater than or equal to 45 MPH.

32% of vehicles traveling this stretch of road are doing 45 MPH (Majority) when compared to the other speed limits of between 30 and over 90 MPH.

The average speed traveled on this stretch of road is between 40-45 MPH.

**Vehicle Counts and Percentage of Total for each MPH category from September 19-30, 2018.**

MPH	Vehicle Counts	%
30	3212	3%
35	6560	6%
40	15042	13%
45	44709	39%
50	29810	26%
55	12467	11%
60	2184	2%
65	394	0%
70	58	0%
75	17	0%
80	11	0%
85	7	0%
90	0	0%
91+	23	0%

The speed limit for this stretch of road is 40 MPH.



# Maricopa County Sheriff's Office

## District II

### Traffic Speed Limit Analysis

#### Location: Northbound Litchfield Rd N/O Bird Ln



Time of Day Heat Table of vehicle counts and percentage of total that were traveling 45 MPH or greater. Red indicates higher rates of occurrence and green indicates lower rates. The majority instances of speeding occurs between 0800 and 2000 on any given day.

TIME	Wed 09/19/18		Thu 09/20/18		Fri 09/21/18		Sat 09/22/18		Sun 09/23/18		Mon 09/24/18		Tue 09/25/18		Wed 09/26/18		Thu 09/27/18		Fri 09/28/18		Sat 09/29/18		Sun 09/30/18	
	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total
0100	42	1%	40	0%	39	0%	81	1%	62	1%	23	0%	35	0%	43	1%	38	1%	43	1%	80	1%	104	2%
0200	17	0%	28	0%	29	0%	45	1%	36	1%	17	0%	22	0%	29	0%	15	0%	27	0%	47	1%	47	1%
0300	21	0%	14	0%	24	0%	34	0%	27	0%	22	0%	16	0%	19	0%	18	0%	20	0%	31	0%	40	1%
0400	34	0%	31	0%	35	0%	40	0%	19	0%	25	0%	31	0%	24	0%	29	0%	32	0%	27	0%	24	0%
0500	73	1%	73	1%	81	1%	65	1%	21	0%	77	1%	85	1%	87	1%	62	1%	71	1%	27	0%	28	1%
0600	207	3%	214	3%	220	2%	131	2%	53	1%	169	2%	226	3%	219	3%	253	4%	178	2%	75	1%	49	1%
0700	425	5%	457	6%	469	5%	181	2%	89	1%	420	5%	456	6%	452	6%	442	7%	427	5%	178	2%	137	3%
0800	547	7%	601	7%	577	6%	384	5%	193	3%	595	8%	610	8%	605	8%	546	9%	568	7%	236	3%	176	3%
0900	568	7%	509	6%	529	6%	516	6%	323	5%	425	6%	486	6%	314	4%	372	6%	500	6%	327	5%	271	5%
1000	416	5%	404	5%	447	5%	589	7%	471	8%	435	6%	397	5%	269	4%	268	4%	459	5%	450	6%	390	8%
1100	414	5%	400	5%	457	5%	635	8%	525	9%	464	6%	424	5%	221	3%	141	2%	450	5%	520	7%	423	8%
1200	392	5%	453	5%	508	6%	684	8%	504	8%	436	6%	485	6%	267	4%	142	2%	500	6%	531	7%	383	8%
1300	440	6%	522	6%	570	6%	556	7%	518	9%	477	6%	471	6%	329	5%	173	3%	557	7%	562	8%	427	8%
1400	454	6%	488	6%	546	6%	582	7%	460	8%	476	6%	498	6%	452	6%	213	3%	490	6%	535	7%	360	7%
1500	482	6%	569	7%	678	7%	524	6%	409	7%	546	7%	547	7%	530	7%	209	3%	568	7%	532	7%	337	7%
1600	518	7%	519	6%	727	8%	576	7%	380	6%	524	7%	543	7%	514	7%	513	8%	525	6%	520	7%	317	6%
1700	583	7%	656	8%	724	8%	547	7%	420	7%	601	8%	626	8%	599	8%	597	9%	623	7%	485	7%	297	6%
1800	617	8%	583	7%	661	7%	525	6%	491	8%	565	7%	567	7%	586	8%	518	8%	587	7%	441	6%	275	5%
1900	524	7%	520	6%	550	6%	436	5%	376	6%	453	6%	498	6%	472	7%	464	7%	472	6%	399	6%	309	6%
2000	368	5%	393	5%	417	5%	359	4%	258	4%	319	4%	347	4%	403	6%	369	6%	377	4%	296	4%	229	5%
2100	328	4%	351	4%	327	4%	292	3%	167	3%	261	3%	275	3%	328	5%	388	6%	292	3%	270	4%	171	3%
2200	178	2%	215	3%	236	3%	233	3%	93	2%	204	3%	195	2%	215	3%	307	5%	349	4%	260	4%	115	2%
2300	137	2%	132	2%	233	3%	163	2%	68	1%	96	1%	125	2%	99	1%	190	3%	250	3%	227	3%	74	1%
0000	67	1%	76	1%	142	2%	98	1%	47	1%	44	1%	73	1%	60	1%	86	1%	136	2%	172	2%	58	1%
Totals	7852	100%	8248	100%	9226	100%	8373	100%	6010	100%	7674	100%	8038	100%	7136	100%	6353	100%	8501	100%	7228	100%	5041	100%

10/12/2018



**Maricopa County Sheriff's Office  
District II  
Traffic Speed Limit Analysis  
Location: Northbound Litchfield Rd N/O Bird Ln**



Data was collected by MCDOT for this stretch of road from September 19-30, 2018. MCDOT then provided MCSO with PDF versions of the report based on data collected.

The MCSO CRAU then exported the data from PDF format to MS Word where it was then exported to MS Excel so that additional analysis and formatting could be conducted for this report.

**Findings (All Percentages are rounded)**

14% of vehicles traveling this stretch of road are doing less than 40 MPH.

12% of vehicles traveling this stretch of road are doing 40 MPH.

84% of vehicles traveling this stretch of road are doing 40-55 MPH.

16% of vehicles traveling this stretch of road are doing 30-40 MPH.

72% of vehicles traveling this stretch of road are doing greater than or equal to 45 MPH.

39% of vehicles traveling this stretch of road are doing 45 MPH (Majority) when compared to the other speed limits of between 30 and over 90 MPH.

The average speed traveled on this stretch of road is between 40-45 MPH on September 19-24 and 35-40 on September 25-30.

**Vehicle Counts and Percentage of Total for each MPH category.**

MPH	Vehicle Counts	%
30	11219	11%
35	3254	3%
40	12719	12%
45	40857	39%
50	24560	24%
55	9124	9%
60	1481	1%
65	299	0%
70	81	0%
75	15	0%
80	33	0%
85	18	0%
90	17	0%
91+	280	0%

The speed limit for this stretch of road is 40 MPH.



# Maricopa County Sheriff's Office

## District II

### Traffic Speed Limit Analysis

#### Location: Northbound Litchfield Rd N/O Bird Ln



Time of Day Heat Table of vehicle counts and percentage of total that were traveling 45 MPH or greater. Red indicates higher rates of occurrence and green indicates lower rates. The majority instances of speeding occurs between 0800 and 2000 on any given day. 1600 to 1900 Peak Times

TIME	Wed 09/19/18		Thu 09/20/18		Fri 09/21/18		Sat 09/22/18		Sun 09/23/18		Mon 09/24/18		Tue 09/25/18		Wed 09/26/18		Thu 09/27/18		Fri 09/28/18		Sat 09/29/18		Sun 09/30/18	
	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total	>45	% of Total
0100	40	0%	76	1%	25	0%	81	1%	62	1%	23	0%	22	0%	36	1%	29	1%	32	1%	53	1%	61	2%
0200	31	0%	24	0%	30	0%	53	1%	36	1%	17	0%	19	0%	8	0%	23	0%	26	0%	17	0%	49	2%
0300	25	0%	30	0%	41	0%	34	0%	27	0%	22	0%	7	0%	14	0%	19	0%	26	0%	17	0%	37	1%
0400	35	0%	24	0%	26	0%	40	0%	19	0%	25	0%	25	0%	29	1%	38	1%	34	1%	25	1%	20	1%
0500	78	1%	95	1%	75	1%	65	1%	21	0%	77	1%	64	1%	85	2%	80	2%	74	1%	62	1%	8	0%
0600	175	2%	178	2%	171	2%	139	2%	53	1%	169	2%	124	2%	114	2%	118	2%	154	3%	30	1%	49	2%
0700	305	4%	457	5%	507	5%	181	2%	89	1%	420	6%	204	4%	205	4%	200	4%	176	3%	134	3%	98	3%
0800	609	7%	619	7%	662	7%	384	4%	193	3%	595	8%	199	4%	203	4%	252	5%	229	4%	129	3%	193	7%
0900	585	7%	459	5%	486	5%	516	6%	323	5%	477	7%	240	5%	201	4%	156	3%	202	4%	146	3%	223	8%
1000	400	5%	393	5%	403	4%	589	7%	471	7%	347	5%	195	4%	192	4%	176	4%	303	6%	187	4%	209	7%
1100	422	5%	426	5%	453	5%	635	7%	525	8%	424	6%	208	4%	196	4%	81	2%	281	5%	121	3%	211	7%
1200	385	5%	500	6%	560	6%	684	8%	504	7%	407	6%	227	4%	248	5%	134	3%	240	4%	196	4%	184	6%
1300	419	5%	464	5%	516	6%	637	7%	518	8%	374	5%	251	5%	200	4%	157	3%	209	4%	154	3%	133	5%
1400	391	5%	451	5%	560	6%	582	6%	460	7%	347	5%	170	3%	256	5%	190	4%	200	4%	208	5%	141	5%
1500	545	7%	619	7%	687	7%	524	6%	409	6%	388	5%	199	4%	246	5%	217	5%	232	4%	110	2%	197	7%
1600	647	8%	721	8%	727	8%	691	8%	617	9%	633	9%	719	14%	719	14%	719	15%	719	13%	719	16%	196	7%
1700	813	10%	795	9%	724	8%	811	9%	811	12%	811	11%	782	15%	782	15%	782	16%	782	15%	782	18%	182	6%
1800	735	9%	712	8%	661	7%	729	8%	729	11%	729	10%	634	12%	601	12%	591	12%	607	11%	625	14%	141	5%
1900	586	7%	594	7%	550	6%	436	5%	376	5%	255	4%	272	5%	230	4%	212	4%	180	3%	129	3%	173	6%
2000	348	4%	399	5%	417	5%	359	4%	258	4%	198	3%	159	3%	230	4%	198	4%	163	3%	171	4%	157	5%
2100	231	3%	262	3%	327	4%	292	3%	167	2%	125	2%	160	3%	146	3%	167	3%	150	3%	114	3%	110	4%
2200	168	2%	170	2%	236	3%	233	3%	93	1%	107	2%	110	2%	93	2%	140	3%	185	3%	100	2%	96	3%
2300	109	1%	128	1%	233	3%	163	2%	68	1%	88	1%	88	2%	93	2%	86	2%	73	1%	82	2%	53	2%
0000	74	1%	81	1%	142	2%	98	1%	47	1%	59	1%	25	0%	42	1%	50	1%	65	1%	93	2%	10	0%
Totals	8156	100%	8677	100%	9219	100%	8956	100%	6876	100%	7117	100%	5103	100%	5169	100%	4815	100%	5342	100%	4404	100%	2931	100%

10/12/2018



**Maricopa County Sheriff's Office**  
**District II**  
**Traffic Speed Limit Analysis**  
**Location: Northbound Litchfield Rd N/O Bird Ln**



**Findings (All Percentages are rounded)**

SB has 32% more vehicles traveling this stretch of road at less than 40 MPH.

NB has 18% more vehicles traveling this stretch of road at 40 MPH.

NB has 17% more vehicles traveling this stretch of road at 40-55 MPH.

NB has 17% more vehicles traveling this stretch of road are going greater than or equal to 45 MPH.

SB has 31% more vehicles traveling this stretch at 65 MPH or more.

NB has 9% more vehicles traveling this stretch of road at 45 MPH (Majority).

SB has 92% more vehicles traveling this stretch of road at more than 90 MPH. This significant increase did not occur until September 24 and continued until September 30. The time frame for the excessive speed was captured between 0500 to 2200 on every day of the week.

NB is heavier traveled than SB by 10%

**Northbound**

MPH	Vehicle Counts	%
30	3212	3%
35	6560	6%
40	15042	13%
45	44709	39%
50	29810	26%
55	12467	11%
60	2184	2%
65	394	0%
70	58	0%
75	17	0%
80	11	0%
85	7	0%
90	0	0%
91+	23	0%
<b>Total</b>	<b>114494</b>	

**Southbound**

MPH	SB Vehicle Counts	%
30	11219	11%
35	3254	3%
40	12719	12%
45	40857	39%
50	24560	24%
55	9124	9%
60	1481	1%
65	299	0%
70	81	0%
75	15	0%
80	33	0%
85	18	0%
90	17	0%
91+	280	0%
<b>Total</b>	<b>103957</b>	

**Northbound and Southbound Comparison**

MPH	Count Difference	NB vs SB	% Difference
30	-8007	NB Less than SB	-71%
35	3306	NB more than SB	102%
40	2323	NB more than SB	18%
45	3852	NB more than SB	9%
50	5250	NB more than SB	21%
55	3343	NB more than SB	37%
60	703	NB more than SB	47%
65	95	NB more than SB	32%
70	-23	NB Less than SB	-28%
75	2	NB more than SB	13%
80	-22	NB Less than SB	-67%
85	-11	NB Less than SB	-61%
90	-17	NB Less than SB	-100%
91+	-257	NB Less than SB	-92%
<b>Total</b>	<b>10537</b>	<b>NB more than SB</b>	<b>10%</b>

10/12/2018