Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-9228-002

Day: Tuesday

City: Raleigh

Date: 5/3/2016

AM

NS/EW Streets:	Wake Forest Rd			Wake Forest Rd			Navaho Dr			Navaho Dr			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2.5	0.5	1	3.5	0.5	0.5	0.5	1	0.5	0.5	1	
7:00 AM	27	389	47	2	385	7	11	1	39	13	0	2	923
7:15 AM	29	383	52	2	460	2	10	1	40	12	2	3	996
7:30 AM	31	485	74	3	478	8	13	4	35	10	1	3	1145
7:45 AM	41	529	78	5	539	8	1	5	36	18	4	8	1272
8:00 AM	44	523	88	8	492	5	8	3	53	31	4	3	1262
8:15 AM	39	537	98	2	481	10	7	3	34	27	1	2	1241
8:30 AM	42	535	102	6	453	13	10	3	28	26	1	8	1227
8:45 AM	30	515	113	6	504	10	11	6	38	37	1	12	1283
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	283	3896	652	34	3792	63	71	26	303	174	14	41	9349
APPROACH %'s :	5.86%	80.65%	13.50%	0.87%	97.51%	1.62%	17.75%	6.50%	75.75%	75.98%	6.11%	17.90%	
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	155	2110	401	22	1930	38	36	15	153	121	7	25	5013
PEAK HR FACTOR :		0.982			0.957			0.797			0.765		0.977

NB Uturns	SB Uturns	EB Uturns	WB Uturns
0	0	0	0

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Project ID: 16-9228-002 **Day:** Tuesday

City: Raleigh **Date:** 5/3/2016

PM

NS/EW Streets:	Wake Forest Rd			Wake Forest Rd			Navaho Dr			Navaho Dr							
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND							
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB Uturns	SB Uturns	EB Uturns	WB Uturns
LANES:	1	2.5	0.5	1	3.5	0.5	0.5	0.5	1	0.5	0.5	1					
4:00 PM	36	509	27	3	564	8	18	3	45	49	3	9	1274	0	0		0
4:15 PM	29	554	19	5	585	10	8	4	28	43	2	5	1292	0	0		0
4:30 PM	35	523	34	4	556	7	13	1	63	41	1	4	1282	1	0		0
4:45 PM	42	573	20	7	604	13	19	2	75	27	3	8	1393	0	0		0
5:00 PM	39	571	15	3	536	14	19	1	94	44	4	17	1357	0	1		0
5:15 PM	43	595	20	1	574	10	14	1	65	26	2	7	1358	0	0		0
5:30 PM	45	552	42	5	485	9	18	0	88	33	4	12	1293	0	0		0
5:45 PM	36	581	36	3	532	10	9	8	65	26	4	7	1317	0	0		1
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB Uturns	SB Uturns	EB Uturns	WB Uturns
TOTAL VOLUMES :	305	4458	213	31	4436	81	118	20	523	289	23	69	10566	1	1	0	1
APPROACH %'s :	6.13%	89.59%	4.28%	0.68%	97.54%	1.78%	17.85%	3.03%	79.12%	75.85%	6.04%	18.11%					

PEAK HR START TIME :	445 PM												TOTAL
PEAK HR VOL :	169	2291	97	16	2199	46	70	4	322	130	13	44	5401
PEAK HR FACTOR :		0.972			0.906			0.868			0.719		0.969

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-9228-002
N/S Street: Wake Forest Rd
E/W Street: Navaho Dr
DATE: 5/3/2016
CITY: Raleigh

DAY: Tuesday

A M

PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	2	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0
7:45 AM	1	0	0	0	1	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	1	4	1	0	0	1	0	0
8:30 AM	1	0	0	0	0	0	0	0
8:45 AM	1	0	0	0	0	2	0	0
TOTALS	**4**	**6**	**1**	**0**	**2**	**3**	**0**	**0**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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PEDESTRIANS

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
4:00 PM	0	1	3	0	0	1	1	3
4:15 PM	0	7	0	0	0	0	0	0
4:30 PM	1	0	0	0	0	0	1	1
4:45 PM	0	0	0	0	2	0	0	0
5:00 PM	2	2	0	0	0	0	0	0
5:15 PM	0	2	0	0	2	0	0	1
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	5	0	0	0	0	0	1
TOTALS	**3**	**17**	**3**	**0**	**4**	**1**	**2**	**6**

BIKES

TIME	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-9228-002
Location: Wake Forest Rd & Navaho Dr
City: Raleigh

Day: Tuesday
Date: 5/3/2016

Peak Start Times	
AM	7:00 AM
MD	12:00 AM
PM	4:00 PM

Groups Printed - Cars, PU, Vans - Heavy Trucks

	Wake Forest Rd Northbound					Wake Forest Rd Southbound					Navaho Dr Eastbound					Navaho Dr Westbound					
Start Time	Left	Thru	Rgt	Peds	App. Total	Left	Thru	Rgt	Peds	App. Total	Left	Thru	Rgt	Peds	App. Total	Left	Thru	Rgt	Peds	App. Total	Int. Total
7:00 AM	27	389	47	0	463	2	385	7	0	394	11	1	39	0	51	13	0	2	0	15	923
7:15 AM	29	383	52	0	464	2	460	2	2	464	10	1	40	0	51	12	2	3	0	17	996
7:30 AM	31	485	74	0	590	3	478	8	0	489	13	4	35	0	52	10	1	3	1	14	1145
7:45 AM	41	529	78	0	648	5	539	8	1	552	1	5	36	0	42	18	4	8	1	30	1272
Total	128	1786	251	0	2165	12	1862	25	3	1899	35	11	150	0	196	53	7	16	2	76	4336
8:00 AM	44	523	88	0	655	8	492	5	0	505	8	3	53	0	64	31	4	3	0	38	1262
8:15 AM	39	537	98	1	674	2	481	10	5	493	7	3	34	0	44	27	1	2	1	30	1241
8:30 AM	42	535	102	0	679	6	453	13	1	472	10	3	28	0	41	26	1	8	0	35	1227
8:45 AM	30	515	113	0	658	6	504	10	1	520	11	6	38	0	55	37	1	12	2	50	1283
Total	155	2110	401	1	2666	22	1930	38	7	1990	36	15	153	0	204	121	7	25	3	153	5013
BREAK																					
4:00 PM	36	509	27	3	572	3	564	8	1	575	18	3	45	4	66	49	3	9	1	61	1274
4:15 PM	29	554	19	0	602	5	585	10	7	600	8	4	28	0	40	43	2	5	0	50	1292
4:30 PM	35	523	34	0	592	4	556	7	1	567	13	1	63	2	77	41	1	4	0	46	1282
4:45 PM	42	573	20	0	635	7	604	13	0	624	19	2	75	0	96	27	3	8	2	38	1393
Total	142	2159	100	3	2401	19	2309	38	9	2366	58	10	211	6	279	160	9	26	3	195	5241
5:00 PM	39	571	15	0	625	3	536	14	4	553	19	1	94	0	114	44	4	17	0	65	1357
5:15 PM	43	595	20	0	658	1	574	10	2	585	14	1	65	1	80	26	2	7	2	35	1358
5:30 PM	45	552	42	0	639	5	485	9	0	499	18	0	88	0	106	33	4	12	0	49	1293
5:45 PM	36	581	36	0	653	3	532	10	5	545	9	8	65	1	82	26	4	7	0	37	1317
Total	163	2299	113	0	2575	12	2127	43	11	2182	60	10	312	2	382	129	14	43	2	186	5325
Grand Total	588	8354	865	4	9807	65	8228	144	30	8437	189	46	826	8	1061	463	37	110	10	610	19915
Apprch %	6.0	85.2	8.8	0.0		0.8	97.5	1.7	0.4		17.8	4.3	77.9	0.8		75.9	6.1	18.0	1.6		
Total %	3.0	41.9	4.3	0.0	49.2	0.3	41.3	0.7	0.2	42.4	0.9	0.2	4.1	0.0	5.3	2.3	0.2	0.6	0.1	3.1	
Cars, PU, Vans	588	8323	862	4	9773	65	8203	143	30	8411	189	46	825	8	1060	461	37	110	10	608	19852
% Cars, PU, Vans	100.0	99.6	99.7	100.0	99.7	100.0	99.7	99.3	100.0	99.7	100.0	100.0	99.9	100.0	99.9	99.6	100.0	100.0	100.0	99.7	99.7
Heavy Trucks	0	31	3		34	0	25	1		26	0	0	1		1	2	0	0		2	63
%Heavy Trucks	0.0	0.4	0.3	0.0	0.3	0.0	0.3	0.7	0.0	0.3	0.0	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.3	0.3

Project ID: 16-9228-002
Location: Wake Forest Rd & Navaho Dr
City: Raleigh

PEAK HOURS

Day: Tuesday
Date: 5/3/2016

AM

	Wake Forest Rd Northbound				Wake Forest Rd Southbound				Navaho Dr Eastbound				Navaho Dr Westbound				
Start Time	Left	Thru	Rgt	App. Total	Left	Thru	Rgt	App. Total	Left	Thru	Rgt	App. Total	Left	Thru	Rgt	App. Total	Int. Total
Peak Hour Analysis from 07:00 AM to 09:00 AM																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
8:00 AM	44	523	88	655	8	492	5	505	8	3	53	64	31	4	3	38	1262
8:15 AM	39	537	98	674	2	481	10	493	7	3	34	44	27	1	2	30	1241
8:30 AM	42	535	102	679	6	453	13	472	10	3	28	41	26	1	8	35	1227
8:45 AM	30	515	113	658	6	504	10	520	11	6	38	55	37	1	12	50	1283
Total Volume	155	2110	401	2666	22	1930	38	1990	36	15	153	204	121	7	25	153	5013
% App. Total	5.8	79.1	15.0	100	1.1	97.0	1.9	100	17.6	7.4	75.0	100	79.1	4.6	16.3	100	
PHF				0.982				0.957				0.797				0.765	
Cars, PU, Vans	155	2098	400	2653	22	1917	38	1977	36	15	153	204	121	7	25	153	4987
% Cars, PU, Vans	100.0	99.4	99.8	99.5	100.0	99.3	100.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5
Heavy Trucks	0	12	1	13	0	13	0	13	0	0	0	0	0	0	0	0	26
%Heavy Trucks	0.0	0.6	0.2	0.5	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5

PM

	Wake Forest Rd Northbound				Wake Forest Rd Southbound				Navaho Dr Eastbound				Navaho Dr Westbound				
Start Time	Left	Thru	Rgt	App. Total	Left	Thru	Rgt	App. Total	Left	Thru	Rgt	App. Total	Left	Thru	Rgt	App. Total	Int. Total
Peak Hour Analysis from 04:00 PM to 06:00 PM																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
4:45 PM	42	573	20	635	7	604	13	624	19	2	75	96	27	3	8	38	1393
5:00 PM	39	571	15	625	3	536	14	553	19	1	94	114	44	4	17	65	1357
5:15 PM	43	595	20	658	1	574	10	585	14	1	65	80	26	2	7	35	1358
5:30 PM	45	552	42	639	5	485	9	499	18	0	88	106	33	4	12	49	1293
Total Volume	169	2291	97	2557	16	2199	46	2261	70	4	322	396	130	13	44	187	5401
% App. Total	6.6	89.6	3.8	100	0.7	97.3	2.0	100	17.7	1.0	81.3	100	69.5	7.0	23.5	100	
PHF				0.972				0.906				0.868				0.719	
Cars, PU, Vans	169	2286	96	2551	16	2196	46	2258	70	4	322	396	130	13	44	187	5392
% Cars, PU, Vans	100.0	99.8	99.0	99.8	100.0	99.9	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8
Heavy Trucks	0	5	1	6	0	3	0	3	0	0	0	0	0	0	0	0	9
%Heavy Trucks	0.0	0.2	1.0	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2