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## Appendix B – Model Validation Table

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# Model Validation Wake Corridor

ID	Intersection or Crossing Location	Count Date			2005 Base Year of Model (NO-BUILD)	2010 Base Year of Forecast (NO-BUILD)		2035 Future Year of Forecast NO-BUILD			Count Year	Existing A.M. Peak Approach Volume	Existing P.M. Peak Approach Volume	NCDOT SAF	K	A.M. Peak No-Build AGR	P.M. Peak No-Build AGR	D (A.M. Peak)	D (P.M. Peak)	A.M. Peak Directional Volume	A.M. Peak Directional Volume	P.M. Peak Directional Volume	P.M. Peak Directional Volume
			ROUTE	selected SEGMENT	Base Year Model Daily Volume	2010 A.M. Peak Volumes	2010 P.M. Peak Volumes	Future Year Model Daily Volume	2035 A.M. Peak Volumes	2035 P.M. Peak Volumes													
1	NC 54 (Chapel Hill Road) at NW Cary Parkway	Tuesday, February 20, 2007	NW Cary Parkway	NORTH of NC 54 (Chapel Hill Road)	23,598	2,300	2,280	40,750	3,720	3,700	2007	2,111	2,087	1.03	10%	1.94%	1.96%	75%	75%	2,790	930	2,780	920
			NC 54 (Chapel Hill Road)	EAST of NW Cary Parkway	21,755	1,200	1,420	40,459	2,760	2,980	2007	941	1,117	1.21	10%	3.39%	3.01%	55%	60%	1,520	1,240	1,780	1,200
			NW Cary Parkway	SOUTH of NC 54 (Chapel Hill Road)	27,941	2,740	2,760	53,087	4,840	4,860	2007	2,505	2,522	1.03	10%	2.30%	2.29%	75%	70%	3,630	1,210	3,400	1,460
			NC 54 (Chapel Hill Road)	WEST of NW Cary Parkway	26,020	1,880	1,800	63,797	5,020	4,940	2007	1,467	1,402	1.21	10%	4.01%	4.12%	60%	55%	3,020	2,000	2,720	2,220
2	NW Cary Parkway at Park Place Shopping Center Entrance	Tuesday, February 06, 2007	NW Cary Parkway	NORTH of Park Place Shopping Center Entrance	27,941	2,800	2,800	53,087	4,900	4,900	2007	2,466	2,479	1.03	10%	2.26%	2.26%	75%	70%	3,680	1,220	3,430	1,470
			Park Place Shopping Center Entrance	EAST of NW Cary Parkway	0	60	200	0	120	420	2007	47	178	1.03	10%	2.81%	3.01%	55%	50%	60	60	210	210
			NW Cary Parkway	SOUTH of Park Place Shopping Center Entrance	27,941	2,810	2,840	51,749	4,800	4,820	2007	2,479	2,523	1.03	10%	2.16%	2.14%	75%	70%	3,600	1,200	3,380	1,440
			Park Place Shopping Center Entrance	WEST of NW Cary Parkway	0	0	0	14,966	1,240	1,240	2007	0	0	1.03	10%	-	-	55%	50%	680	560	620	620
3	Cary Parkway at James Jackson Avenue	Thursday, February 22, 2007	Cary Parkway	NORTH of James Jackson Street	27,941	2,810	2,840	51,751	4,800	4,820	2007	2,678	2,668	1.03	10%	2.16%	2.14%	75%	70%	3,600	1,200	3,380	1,440
			James Jackson Street	EAST of Cary Parkway	1,859	540	820	4,651	780	1,060	2007	515	764	1.03	10%	1.48%	1.03%	60%	55%	460	320	580	480
			Cary Parkway	SOUTH of James Jackson Street	29,772	2,840	2,940	55,440	4,980	5,080	2007	2,701	2,761	1.03	10%	2.27%	2.21%	75%	65%	3,740	1,240	3,300	1,780
			James Jackson Street	WEST of Cary Parkway	1,859	240	360	4,651	480	600	2007	226	329	1.03	10%	2.81%	2.06%	60%	50%	280	200	300	300
4	James Jackson Avenue at Towerview Court	Wednesday, November 17, 2010	Towerview Court	NORTH of James Jackson Avenue	0	20	40	0	40	80	2010	22	41	0.95	10%	2.81%	2.81%	65%	55%	20	20	40	40
			James Jackson Avenue	EAST of Towerview Court	3,041	400	560	7,741	800	960	2010	429	590	0.95	10%	2.81%	2.18%	60%	50%	480	320	480	480
			Driveway	SOUTH of James Jackson Avenue	0	180	280	0	380	580	2010	198	291	0.95	10%	3.03%	2.96%	70%	55%	260	120	320	260
			James Jackson Avenue	WEST of Towerview Court	1,859	380	480	4,651	620	720	2010	391	508	0.95	10%	1.98%	1.64%	50%	55%	310	310	400	320
5	NW Maynard Road at James Jackson Avenue	Thursday, September 20, 2007	NW Maynard Road	NORTH of James Jackson Avenue/Carrousel Lane	15,378	1,640	1,980	15,971	1,680	2,020	2007	1,639	1,961	0.95	10%	0.10%	0.08%	65%	60%	1,100	580	1,220	800
			Carrousel Lane	EAST of NW Maynard Road	0	100	100	0	160	160	2007	106	109	0.95	10%	1.90%	1.90%	70%	65%	120	40	100	60
			NW Maynard Road	SOUTH of James Jackson Avenue/Carrousel Lane	16,186	1,440	1,720	18,017	1,600	1,880	2007	1,441	1,705	0.95	10%	0.42%	0.36%	70%	65%	1,120	480	1,220	660
			James Jackson Avenue	WEST of NW Maynard Road	3,041	520	580	7,741	920	980	2007	522	571	0.95	10%	2.31%	2.12%	65%	70%	600	320	680	300
6	NC 54 (Chapel Hill Road) at NW Maynard Road	Tuesday, February 20, 2007	NW Maynard Road	NORTH of Chapel Hill Road	20,858	1,660	2,180	19,164	2,120	2,800	2007	1,524	1,996	1.03	10%	0.98%	1.01%	60%	70%	1,280	840	1,960	840
			Chapel Hill Road	EAST of NW Maynard Road	20,235	1,320	1,520	38,557	2,840	3,040	2007	1,030	1,188	1.21	10%	3.11%	2.81%	50%	60%	1,420	1,420	1,820	1,220
			NW Maynard Road	SOUTH of Chapel Hill Road	15,378	1,600	2,080	15,971	1,640	2,120	2007	1,472	1,903	1.03	10%	0.10%	0.08%	65%	60%	1,060	580	1,380	740
			Chapel Hill Road	WEST of NW Maynard Road	24,030	1,160	1,340	43,550	2,780	2,960	2007	910	1,041	1.21	10%	3.56%	3.22%	60%	55%	1,660	1,120	1,620	1,340
7	W Chatham Street at Harrison Avenue	Tuesday, July 07, 2009	Harrison Avenue	North of W Chatham St	27,060	520	740	37,679	1,400	1,620	2009	532	1,162	0.94	10%	4.04%	3.18%	50%	80%	700	700	1,300	320
			W Chatham Street	East of Harrison Avenue	21,819	860	900	25,760	1,180	1,220	2009	887	1,399	0.94	10%	1.27%	1.22%	65%	50%	760	420	610	610
			Harrison Avenue	South of W Chatham St	5,589	720	580	9,372	1,040	900	2009	759	905	0.94	10%	1.48%	1.77%	60%	75%	620	420	680	220
			W Chatham Street	West of Harrison Avenue	19,772	960	800	45,897	3,140	2,980	2009	1,006	1,234	0.94	10%	4.85%	5.40%	70%	55%	2,200	940	1,640	1,340
8	W Chatham Street at Academy Street	Tuesday, January 19, 2010	Academy Street	North of W Chatham St	3,984	520	720	16,313	1,540	1,740	2010	550	760	0.94	10%	4.44%	3.59%	80%	55%	1,240	300	920	820
			W Chatham Street	East of Academy Street	9,144	860	940	21,878	1,920	2,000	2010	925	1,002	0.94	10%	3.26%	3.07%	75%	50%	1,440	480	1,000	1,000
			Academy Street	South of W Chatham St	19,733	640	660	22,394	860	880	2010	682	693	0.94	10%	1.19%	1.16%	80%	55%	680	180	480	400
			W Chatham Street	West of Academy Street	21,819	840	900	25,760	1,160	1,220	2010	889	969	0.94	10%	1.30%	1.22%	65%	50%	760	400	610	610
9	E Chatham Street at NE Maynard Road	Thursday, May 22, 2008	NE Maynard Road	North of E Chatham Street	13,604	1,200	1,780	31,833	2,720	3,300	2008	1,230	1,835	0.93	10%	3.33%	2.50%	65%	60%	1,760	960	1,980	1,320
			E Chatham Street	East of NE Maynard Road	14,365	1,300	1,580	33,193	2,860	3,100	2008	1,328	1,587	0.93	10%	3.20%	2.84%	60%	55%	1,720	1,140	1,700	1,400
			NE Maynard Road	South of Chatham Street	11,553	1,200	1,940	31,552	2,860	3,640	2008	1,231	2,047	0.93	10%	3.54%	2.47%	65%	65%	1,860	1,000	2,360	1,280
			E Chatham Street	West of NE Maynard Road	11,987	1,160	1,400	35,607	3,120	3,360	2008	1,203	1,431	0.93	10%	4.04%	3.56%	60%	55%	1,880	1,240	1,840	1,520
10	NC 54 (Chapel Hill Road) at NE Maynard Road	Tuesday, April 22, 2008	NE Maynard Road	NORTH of Chapel Hill Road	19,182	1,320	1,400	37,667	2,860	2,940	2008	1,319	1,411	0.96	10%	3.14%	3.01%	55%	55%	1,580	1,280	1,620	1,320
			Chapel Hill Road	EAST of NE Maynard Road	23,862	1,040	1,080	39,684	2,360	2,400	2008	968	1,010	1.03	10%	3.33%	3.25%	65%	50%	1,540	820	1,200	1,200
			NE Maynard Road	SOUTH of Chapel Hill Road	13,908	1,660	1,700	31,287	3,100	3,140	2008	1,661	1,706	0.96	10%	2.53%	2.48%	55%	50%	1,700	1,400	1,570	1,570
			Chapel Hill Road	WEST of NE Maynard Road	15,823	2,020	2,100	25,543	2,840	2,920	2008	1,882	1,963	1.03	10%	1.37%	1.33%	65%	55%	1,840	1,000	1,600	1,320
11	E Chatham Street at Trinity Road	Tuesday, May 20, 2008	Trinity Road	North of E Chatham Street	4,251	240	240	8,300	580	580	2008	243	248	0.93	10%	3.59%	3.59%	75%	60%	440	140	340	240
			E Chatham Street	East of Trinity Road	13,674	1,260	1,560	27,919	2,440	2,740	2008	1,305	1,614	0.93	10%	2.68%	2.28%	55%	55%	1,340	1,100	1,500	1,240
			-	South of E Chatham Street	0	0	0	12,098	1,000	1,000	2008	0	0	0.93	10%	-	-	75%	60%	750	250	600	400
			E Chatham Street	West of Trinity Road	15,087	1,220	1,540	34,960	2,880	3,200	2008	1,252	1,578	0.93	10%	3.50%	2.97%	60%	55%	1,720	1,160	1,760	1,440
12	NC 54 (Chapel Hill Road) at I-40 EB Ramps	Tuesday, June 17, 2008	I-40 EB Ramps	NORTH of NC 54 (Chapel Hill Road)	7,365	360	840	16,914	1,160	1,640	2008	365	867	0.94	10%	4.79%	2.71%	70%	65%	820	340	1,060	580
			NC 54 (Chapel Hill Road)	EAST of I-40 EB Ramps	25,912	1,480	1,930	39,739	2,640	3,080	2008	1,463	1,990	0.94	10%	2.34%	1.89%	55%	70%	1,460	1,180	2,160	920
			I-40 EB Ramps	SOUTH of NC 54 (Chapel Hill Road)	6,834	460	1,000	9,852	720	1,260	2008	463	1,028	0.94	10%	1.81%	0.93%	100%	100%	720	0	1,260	0
			NC 54 (Chapel Hill Road)	WEST of I-40 EB Ramps	28,696	1,820	2,540	36,595	2,480	3,200	2008	1,867	2,597	0.94	10%	1.25%	0.93%	65%	60%	1,620	860	1,920	1,280
13	NC 54 (Chapel Hill Road) at I-40 WB Ramps	Thursday, June 12, 2008	I-40 WB Ramps	NORTH of NC 54 (Chapel Hill Road)	1,493	200	140	4,354	440	380	2008	215	148	0.94	10%	3.20%	4.07%	100%	100%	440	0	380	0
			NC 54 (Chapel Hill Road)	EAST of I-40 WB Ramps	19,265	1,420	1,650	37,353	2,920	3,160	2008	1,504	1,676	0.94	10%	2.93%	2.63%	60%	65%	1,760	1,160	2,060	1,100
			I-40 WB Ramps	SOUTH of NC 54 (Chapel Hill Road)	16,852	1,020	780	21,253	1,380	1,140	2008	1,055	809	0.94	10%	1.22%	1.53%	75%	80%	1,040	340	920	220
			NC 54 (Chapel Hill Road)	WEST of I-40 WB Ramps	25,912	1,480	1,930	39,739	2,640	3,080	2008	1,564	1,969	0.94	10%	2.34%							

## Model Validation Wake Corridor

ID	Intersection or Crossing Location	Count Date			2005 Base Year of Model (NO-BUILD)	2010 Base Year of Forecast (NO-BUILD)		2035 Future Year of Forecast NO-BUILD			Count Year	Existing A.M. Peak Approach Volume	Existing P.M. Peak Approach Volume	NCDOT SAF	K	A.M. Peak No-Build AGR	P.M. Peak No-Build AGR	D (A.M. Peak)	D (P.M. Peak)	A.M. Peak Directional Volume	A.M. Peak Directional Volume	P.M. Peak Directional Volume	P.M. Peak Directional Volume
			ROUTE	selected SEGMENT	Base Year Model Daily Volume	2010 A.M. Peak Volumes	2010 P.M. Peak Volumes	Future Year Model Daily Volume	2035 A.M. Peak Volumes	2035 P.M. Peak Volumes													
21	Blue Ridge Road at Trinity Drive	AM	Blue Ridge Road	North of Trinity Drive	29,217	1,360	1,700	38,372	2,120	2,460	2009	1,406	1,752	0.95	10%	1.79%	1.49%	55%	55%	1,160	960	1,360	1,100
		Friday, June 26, 2009	Trinity Drive	East of Blue Ridge Road	0	0	0	0	0	0	0	0	0	0.00	0%	0.00%	0.00%	0%	0%	0	0	0	0
		PM	Blue Ridge Road	South of Trinity Drive	28,018	1,300	1,660	41,658	2,440	2,800	2009	1,339	1,714	0.95	10%	2.55%	2.11%	60%	55%	1,460	980	1,540	1,260
22	NC 54 at Beryl Road	Monday, November 09, 2009	Trinity Drive	West of Blue Ridge Road	7,151	420	480	18,463	1,360	1,420	2009	427	494	0.95	10%	4.81%	4.43%	55%	50%	740	620	710	710
		Friday, March 27, 2009	-	North of NC 54	0	0	0	0	0	0	0	0	0	0.00	10%	-	-	-	-	-	-	-	-
			NC 54	East of Beryl Road	22,816	1,920	2,760	33,463	2,800	3,640	2009	1,701	2,437	1.11	10%	1.52%	1.11%	65%	55%	1,820	980	2,000	1,640
23	NC 54 at Royal Street	Tuesday, October 12, 2010	Beryl Road	South of NC 54	2,756	360	580	11,477	1,080	1,300	2009	320	519	1.11	10%	4.49%	3.28%	60%	55%	640	440	720	580
			NC 54	West of Beryl Road	25,146	1,820	2,600	36,781	2,780	3,560	2009	1,603	2,296	1.11	10%	1.71%	1.26%	65%	60%	1,800	980	2,140	1,420
			-	North of NC 54	0	0	0	0	0	0	0	0	0	0.00	10%	-	-	-	-	-	-	-	-
24	Glenwood Avenue at Morgan Street	Wednesday, May 20, 2009	NC 54	East of Royal Street	0	1,480	2,240	0	2,360	3,120	2010	1,617	2,445	0.92	10%	1.88%	1.33%	55%	55%	1,300	1,060	1,720	1,400
			Royal Street	South of NC 54	0	40	60	0	60	100	2010	43	66	0.92	10%	1.64%	2.06%	50%	60%	30	30	60	40
			NC 54	West of Royal Street	22,816	1,500	2,240	33,463	2,380	3,120	2010	1,626	2,426	0.92	10%	1.86%	1.33%	55%	55%	1,300	1,080	1,720	1,400
25	Hillsborough at Edenton	Wednesday, October 13, 2010	Glenwood Avenue	North of Morgan Street	500	300	340	500	560	2009	293	329	0.99	10%	2.06%	2.02%	70%	65%	350	150	360	200	
			Morgan Street	East of Glenwood Avenue	480	640	780	1,040	2009	479	632	0.99	10%	1.96%	1.96%	95%	90%	740	40	940	100		
			Glenwood Avenue	South of Morgan Street	0	0	0	0	0	0	2009	0	0	0.00	10%	0.00%	0.00%	0%	0%	0	0	0	0
26	Glenwood Avenue at W Jones Street	Monday, May 11, 2009	Morgan Street	West of Glenwood Avenue	400	600	660	980	2009	398	587	0.99	10%	2.02%	1.98%	85%	85%	560	100	840	140		
			Edenton Street	North of Hillsborough Street	760	740	1,240	1,220	2010	537	590	0.89	10%	1.98%	2.02%	100%	100%	1,240	0	1,220	0		
			Hillsborough Street	East of Edenton Street	500	740	820	1,220	2010	573	875	0.89	10%	2.00%	2.02%	70%	55%	580	240	680	540		
27	West Street at Hargett Street	Tuesday, February 05, 2008	Driveway	South of Hillsborough Street	0	0	0	0	0	2010	3	4	0.89	10%	-	0.00%	0%	0%	0	0	0	0	
			Hillsborough Street	West of Edenton Street	980	1,300	2,060	2,440	2010	1,113	1,467	0.89	10%	3.02%	2.55%	90%	70%	1,820	240	1,760	680		
			Glenwood Avenue	North of Jones Street	620	700	1,020	1,140	2009	611	687	0.99	10%	2.01%	1.97%	70%	50%	720	300	570	570		
28	West Street at Morgan Street	Wednesday, May 20, 2009	Jones Street	East of Glenwood Avenue	160	160	260	260	2009	155	166	0.99	10%	1.96%	1.96%	65%	50%	160	100	130	130		
			Glenwood Avenue	West of Jones Street	540	620	880	1,020	2009	527	606	0.99	10%	1.97%	2.01%	70%	50%	620	260	510	510		
			West Street	West of Glenwood Avenue	100	100	160	160	2009	93	97	0.99	10%	1.90%	1.90%	50%	60%	80	80	100	60		
29	West Street at Hillsborough Street	Wednesday, March 25, 2009	West Street	North of Hargett Street	80	140	140	220	2008	84	141	0.91	10%	2.26%	1.82%	55%	50%	80	60	110	110		
			Hargett Street	East of West Street	120	180	200	300	2008	132	186	0.91	10%	2.06%	2.06%	50%	65%	100	100	200	100		
			West Street	South of Hargett Street	80	120	140	200	2008	79	127	0.91	10%	2.26%	2.06%	70%	50%	100	40	100	100		
30	West Street at Edenton Street	Thursday, April 30, 2009	Hargett Street	West of West Street	120	180	200	300	2008	131	182	0.91	10%	2.06%	2.06%	60%	65%	120	80	200	100		
			West Street	North of Morgan Street	80	100	140	160	2009	87	91	0.99	10%	2.26%	1.90%	55%	55%	80	60	80	80		
			Morgan Street	East of West Street	280	700	460	1,140	2009	277	687	0.99	10%	2.01%	1.97%	95%	90%	440	20	1,020	120		
31	West Street at Jones Street	Thursday, October 14, 2010	West Street	South of Morgan Street	100	200	160	320	2009	103	205	0.99	10%	1.90%	1.90%	65%	50%	100	60	160	160		
			Morgan Street	West of West Street	320	800	520	1,320	2009	325	793	0.99	10%	1.96%	2.02%	90%	85%	460	60	1,120	200		
			West Street	North of NC 54	120	180	200	300	2009	131	192	0.88	10%	2.06%	2.06%	65%	70%	130	70	210	90		
32	West Street at North Street	Thursday, October 21, 2010	Hillsborough Street	East of West Street	480	680	780	1,120	2009	524	764	0.88	10%	1.96%	2.02%	70%	50%	540	240	560	560		
			West Street	South of NC 54	60	80	100	140	2009	56	86	0.88	10%	2.06%	2.26%	60%	55%	60	40	80	60		
			Hillsborough Street	West of West Street	500	740	820	1,220	2009	549	824	0.88	10%	2.00%	2.02%	70%	55%	580	240	680	540		
33	Harrington Street at Hargett Street	Monday, October 11, 2010	West Street	North of Edenton Street	220	340	360	560	2009	219	337	0.99	10%	1.99%	2.02%	55%	60%	200	160	340	220		
			Edenton Street	East of Edenton Street	760	720	1,240	1,180	2009	763	721	0.99	10%	1.98%	2.00%	100%	100%	1,240	0	1,180	0		
			West Street	South of Edenton Street	180	220	300	360	2009	171	221	0.99	10%	2.06%	1.99%	50%	70%	150	150	260	100		
34	Harrington Street at Morgan Street	Thursday, May 28, 2009	Edenton Street	West of West Street	760	740	1,240	1,220	2009	755	733	0.99	10%	1.98%	2.02%	100%	100%	1,240	0	1,220	0		
			West Street	North of Jones Street	200	260	320	420	2010	236	301	0.89	10%	1.90%	1.94%	55%	50%	180	140	210	210		
			Jones Street	East of West Street	120	140	200	220	2010	127	152	0.89	10%	2.06%	1.82%	85%	70%	170	30	160	60		
35	Harrington Street at Hillsborough Street	Thursday, March 26, 2009	West Street	South of Jones Street	200	300	320	500	2010	227	337	0.89	10%	1.90%	2.06%	60%	65%	200	120	320	180		
			Jones Street	West of West Street	120	160	200	260	2010	128	190	0.89	10%	2.06%	1.96%	65%	60%	130	70	160	100		
			West Street	North of North Street	240	340	400	560	2010	271	381	0.89	10%	2.06%	2.02%	65%	55%	260	140	300	260		
36	Harrington Street at Edenton Street	Wednesday, October 13, 2010	North Street	East of West Street	40	80	60	140	2010	52	98	0.89	10%	1.64%	2.26%	65%	65%	40	20	100	40		
			West Street	South of North Street	220	320	360	520	2010	255	361	0.89	10%	1.99%	1.96%	65%	50%	240	120	260	260		
			North Street	West of West Street	80	160	140	260	2010	90	182	0.89	10%	2.26%	1.96%	60%	65%	80	60	160	100		
37	Harrington Street at W Jones Street	Thursday, October 14, 2010	Harrington Street	North of Hargett Street	140	220	220	360	2010	151	247	0.89	10%	1.82%	1.99%	60%	55%	140	80	200	160		
			Hargett Street	East of Harrington Street	180	200	300	320	2010	198	229	0.89	10%	2.06%	1.90%	65%	50%	200	100	160	160		
			Harrington Street	South of Hargett Street	100	180	160	300	2010	106	211	0.89	10%	1.90%	2.06%	55%	60%	80	80	180	120		
38	Harrington Street at W Lane Street	Tuesday, October 19, 2010	Hargett Street	West of Harrington Street	140	160	220	260	2010	153	173	0.89	10%	1.82%	1.96%	55%	55%	120	100	140	120		
			Harrington Street	North of Morgan Street	140	220	220	360	2009	135	226	0.99	10%	1.82%	1.99%	55%	75%	120	100	270	90		
			Morgan Street	East of Harrington Street	500	640	820	1,040	2009	495	634	0.99	10%	2.00%	1.96%	90%	90%	740	80	940	100		
39	Harrington Street at W North Street	Wednesday, October 20, 2010	Harrington Street	South of Morgan Street	80	180	140	300	2009	85	173	0.99	10%	2.26%	2.06%	55%	60%	80	60	180	120		
			Morgan Street	West of Harrington Street	460	660	760	1,080	2009	463	653	0.99	10%	2.03%	1.99%	95%	95%	720	40	1,020	60		
			Harrington Street	North of NC 54	80	140	140	220	2009	82	165	0.88	10%	2.26%	1.82%	55%	65%	80	60	140	80		
40	Dawson Street at Hargett Street	Tuesday, July 28, 2009	NC 54	East of Harrington Street	440	680	720	1,120	2009	487	749	0.88	10%	1.99%	2.02%	60%	55%	440	280	620	500		
			Harrington Street	South of NC 54	80	180	140	300	2009	95	202	0.88	10%	2.26%	2.06%	55%	55%	80	60	160	140		
			NC 54	West of Harrington Street	460																		

# Model Validation Wake Corridor

ID	Intersection or Crossing Location	Count Date			2005 Base Year of Model (NO-BUILD)	2010 Base Year of Forecast (NO-BUILD)		2035 Future Year of Forecast NO-BUILD			Count Year	Existing A.M. Peak Approach Volume	Existing P.M. Peak Approach Volume	NCDOT SAF	K	A.M. Peak No-Build AGR	P.M. Peak No-Build AGR	D (A.M. Peak)	D (P.M. Peak)	A.M. Peak Directional Volume	A.M. Peak Directional Volume	P.M. Peak Directional Volume	P.M. Peak Directional Volume
			ROUTE	selected SEGMENT	Base Year Model Daily Volume	2010 A.M. Peak Volumes	2010 P.M. Peak Volumes	Future Year Model Daily Volume	2035 A.M. Peak Volumes	2035 P.M. Peak Volumes													
41	Dawson Street at Morgan Street	AM	Dawson Street	North of Morgan Street		2,140	2,220				2009	2,231	2,322	0.94	10%	2.01%	2.00%	100%	100%	3,520	0	3,640	0
		Tuesday, July 28, 2009	Morgan Street	East of Dawson Street		640	480				2009	662	491	0.94	10%	1.96%	1.96%	100%	100%	1,040	0	780	0
		PM	Dawson Street	South of Morgan Street		1,880	2,220				2009	1,962	2,317	0.94	10%	1.99%	2.00%	100%	100%	3,080	0	3,640	0
		Thursday, July 30, 2009	Morgan Street	West of Dawson Street		400	520				2009	421	536	0.94	10%	2.02%	2.03%	95%	95%	620	40	820	40
42	Dawson Street at Hillsborough Street	Wednesday, July 22, 2009	Dawson Street	North of NC 54		2,040	2,180				2009	2,120	2,272	0.94	10%	1.99%	2.00%	100%	100%	3,340	0	3,580	0
			NC 54	East of Dawson Street		420	520				2009	448	541	0.94	10%	1.95%	2.03%	55%	55%	380	300	480	380
			Dawson Street	South of NC 54		2,060	2,240				2009	2,142	2,328	0.94	10%	2.00%	2.01%	100%	100%	3,380	0	3,680	0
			NC 54	West of Dawson Street		480	600				2009	498	628	0.94	10%	1.96%	1.98%	55%	60%	420	360	580	400
43	Dawson Street at Edenton Street	AM	Dawson Street	North of Edenton Street		2,360	2,200				2009	2,416	2,260	0.96	10%	2.01%	1.99%	100%	100%	3,880	0	3,600	0
		Wednesday, June 17, 2009	Edenton Street	East of Dawson Street		540	560				2009	558	583	0.96	10%	1.97%	2.01%	100%	100%	880	0	920	0
		PM	Dawson Street	South of Edenton Street		2,260	2,220				2009	2,312	2,280	0.96	10%	1.99%	2.00%	100%	100%	3,700	0	3,640	0
		Tuesday, July 28, 2009	Edenton Street	West of Dawson Street		640	560				2009	662	563	0.96	10%	1.96%	2.01%	100%	100%	1,040	0	920	0
44	Dawson Street at Jones Street	AM	Dawson Street	North of Jones Street		4,140	2,320				2009	2,589	2,379	0.96	10%	2.01%	1.99%	100%	100%	4,140	0	3,800	0
		Wednesday, June 24, 2009	Jones Street	East of Dawson Street		440	280				2009	452	286	0.96	10%	1.99%	2.01%	100%	100%	720	0	460	0
		PM	Dawson Street	South of Jones Street		2,260	2,280				2009	2,305	2,326	0.96	10%	1.99%	2.00%	100%	100%	3,700	0	3,740	0
		Tuesday, July 14, 2009	Jones Street	West of Dawson Street		160	220				2009	168	233	0.96	10%	1.96%	1.99%	100%	100%	260	0	360	0
45	Dawson Street at Lane Street	AM	Dawson Street	North of Lane Street		2,480	1,860				2009	2,579	1,932	0.94	10%	1.99%	2.01%	100%	100%	4,060	0	3,060	0
		Tuesday, July 07, 2009	Lane Street	East of Dawson Street		160	400				2009	176	420	0.94	10%	1.96%	2.02%	100%	100%	260	0	660	0
		PM	Dawson Street	South of Lane Street		2,500	2,120				2009	2,604	2,217	0.94	10%	2.00%	2.00%	100%	100%	4,100	0	3,480	0
		Wednesday, July 15, 2009	Lane Street	West of Dawson Street		140	120				2009	151	135	0.94	10%	1.82%	2.06%	100%	100%	220	0	200	0
46	McDowell Street at Hargett Street	Tuesday, July 21, 2009	McDowell Street	North of Hargett Street		2,040	1,940				2009	2,131	2,027	0.94	10%	1.99%	2.00%	100%	100%	3,340	0	3,180	0
			Hargett Street	East of McDowell Street		380	460				2009	390	487	0.94	10%	1.98%	2.03%	55%	70%	340	280	540	220
			McDowell Street	South of Hargett Street		2,060	1,860				2009	2,147	1,934	0.94	10%	2.00%	2.01%	100%	100%	3,380	0	3,060	0
			Hargett Street	West of McDowell Street		320	360				2009	326	366	0.94	10%	1.96%	2.06%	50%	65%	260	260	390	210
47	McDowell Street at Morgan Street	AM	McDowell Street	North of Morgan Street		1,880	2,080				2009	1,971	2,160	0.94	10%	1.99%	2.01%	100%	100%	3,080	0	3,420	0
		Wednesday, July 15, 2009	Morgan Street	East of McDowell Street		600	560				2009	632	591	0.94	10%	1.98%	2.01%	100%	100%	980	0	920	0
		PM	McDowell Street	South of Morgan Street		1,940	2,000				2009	2,020	2,094	0.94	10%	2.00%	2.00%	100%	100%	3,180	0	3,280	0
		Tuesday, July 14, 2009	Morgan Street	West of McDowell Street		560	620				2009	583	657	0.94	10%	2.01%	2.01%	100%	100%	920	0	1,020	0
48	McDowell Street at Hillsborough Street	Thursday, July 16, 2009	McDowell Street	North of NC 54		1,880	2,020				2009	1,960	2,105	0.94	10%	1.99%	2.01%	100%	100%	3,080	0	3,320	0
			NC 54	East of McDowell Street		200	240				2009	209	250	0.94	10%	1.90%	2.06%	75%	60%	240	80	240	160
			McDowell Street	South of NC 54		1,940	2,020				2009	2,028	2,107	0.94	10%	2.00%	2.01%	100%	100%	3,180	0	3,320	0
			NC 54	West of McDowell Street		420	500				2009	435	524	0.94	10%	1.95%	2.00%	55%	55%	380	300	460	360
49	McDowell Street at Edenton Street	AM	McDowell Street	North of Edenton Street		1,760	2,040				2009	1,931	2,248	0.89	10%	1.99%	1.99%	100%	100%	2,880	0	3,340	0
		Tuesday, July 07, 2009	Edenton Street	East of McDowell Street		540	600				2009	600	668	0.89	10%	1.97%	1.98%	100%	100%	880	0	980	0
		PM	McDowell Street	South of Edenton Street		1,700	1,960				2009	1,859	2,145	0.89	10%	1.99%	2.01%	100%	100%	2,780	0	3,220	0
		Wednesday, August 19, 2009	NC 54	West of McDowell Street		480	520				2009	528	565	0.89	10%	1.96%	2.03%	100%	100%	780	0	860	0
50	McDowell Street at Jones Street	AM	McDowell Street	North of Jones Street		1,360	1,680				2009	1,448	1,780	0.92	10%	2.02%	2.01%	100%	100%	2,240	0	2,760	0
		Tuesday, January 05, 2010	Jones Street	East of McDowell Street		380	120				2009	402	129	0.92	10%	1.98%	2.06%	100%	100%	620	0	200	0
		PM	McDowell Street	South of Jones Street		1,360	1,600				2009	1,444	1,697	0.92	10%	2.02%	1.99%	100%	100%	2,240	0	2,620	0
		Tuesday, December 29, 2009	Jones Street	West of McDowell Street		380	200				2009	406	212	0.92	10%	1.98%	1.90%	100%	100%	620	0	320	0
51	McDowell Street at Lane Street	Thursday, July 16, 2009	McDowell Street	North of Lane Street		1,800	2,460				2009	1,871	2,572	0.94	10%	2.01%	2.00%	100%	100%	2,960	0	4,040	0
			Lane Street	East of McDowell Street		160	700				2009	173	739	0.94	10%	1.96%	1.97%	100%	100%	260	0	1,140	0
			McDowell Street	South of Lane Street		1,800	2,140				2009	1,879	2,236	0.94	10%	2.01%	2.01%	100%	100%	2,960	0	3,520	0
			Lane Street	West of McDowell Street		180	380				2009	181	403	0.94	10%	2.06%	1.98%	100%	100%	300	0	620	0
52	Wake Forest Road at Whitaker Mill Road	AM	Wake Forest Road	North of Whitaker Mill Road		17,049	1,900	2,040	27,645		2010	1,864	2,016	1.01	10%	1.53%	1.44%	55%	55%	1,520	1,260	1,600	1,320
		Thursday, March 18, 2010	Whitaker Mill Road	East of Wake Forest Road		9,739	380	460	20,284		2010	367	458	1.01	10%	4.91%	4.37%	50%	50%	630	630	670	670
		PM	Wake Forest Road	South of Whitaker Mill Road		19,198	1,740	1,800	28,741		2010	1,718	1,767	1.01	10%	1.52%	1.48%	55%	55%	1,400	1,140	1,430	1,170
		Wednesday, March 17, 2010	Whitaker Mill Road	West of Wake Forest Road		7,836	480	520	14,804		2010	475	521	1.01	10%	3.22%	3.04%	50%	50%	530	530	550	550
53	Atlantic Avenue at Whitaker Mill Road	AM	Atlantic Avenue	North of Whitaker Mill Road		26,116	2,160	2,020	40,455		2010	1,982	1,862	1.09	10%	1.78%	1.88%	50%	55%	1,680	1,680	1,780	1,440
		Friday, January 22, 2010	Whitaker Mill Road	East of Atlantic Avenue		0	20	20	0		2010	40	11	1.09	10%	2.81%	2.81%	65%	55%	20	20	20	20
		PM	Atlantic Avenue	South of Whitaker Mill Road		0	2,160	2,020	0		2010	1,998	1,864	1.09	10%	1.78%	1.88%	50%	50%	1,680	1,680	1,610	1,610
		Thursday, January 21, 2010	Whitaker Mill Road	West of Atlantic Avenue		8,849	320	420	18,813		2010	1,160	1,260	1.09	10%	5.29%	4.49%	60%	60%	700	460	760	500
54	Six Forks Road at Industrial Drive	Friday, February 05, 2010	Industrial Drive	NORTH of Six Forks Road		4,859	180	380	7,814		2010	420	366	1.03	10%	3.45%	1.98%	55%	80%	240	180	500	120
			Six Forks Road	EAST of Industrial Drive		19,859	1,180	1,400	44,261		2010	1,139	1,362	1.03	10%	4.10%	3.66%	55%	50%	1,780	1,440	1,720	1,720
			Industrial Drive	SOUTH of Six Forks Road		5,590	60	200	8,202		2010	64	197	1.03	10%	6.36%	3.01%	55%	65%	160	120	280	140
			Six Forks Road	WEST of Industrial Drive		18,556	1,200	1,480	41,140		2010	1,161	1,441	1.03	10%	3.84%	3.33%	55%	60%	1,700	1,380	2,020	1,340
55	Six Forks Road at Atlantic Avenue	Friday, September 10, 2010	Atlantic Avenue	NORTH of Six Forks Road		36,577	2,160	2,520	53,466		2010	2,279	2,663	0.95	10%	2.02%	1.78%	55%	50%	1,960	1,600	1,960	1,960

## Model Validation Wake Corridor

ID	Intersection or Crossing Location	Count Date			2005 Base Year of Model (NO-BUILD)	2010 Base Year of Forecast (NO-BUILD)		2035 Future Year of Forecast NO-BUILD			Count Year	Existing A.M. Peak Approach Volume	Existing P.M. Peak Approach Volume	NCDOT SAF	K	A.M. Peak No-Build AGR	P.M. Peak No-Build AGR	D (A.M. Peak)	D (P.M. Peak)	A.M. Peak Directional Volume	A.M. Peak Directional Volume	P.M. Peak Directional Volume	P.M. Peak Directional Volume
			ROUTE	selected SEGMENT	Base Year Model Daily Volume	2010 A.M. Peak Volumes	2010 P.M. Peak Volumes	Future Year Model Daily Volume	2035 A.M. Peak Volumes	2035 P.M. Peak Volumes													
61	Atlantic Avenue at Spring Forest Road	Thursday, May 06, 2010	Atlantic Avenue	NORTH of Spring Forest Road	38,776	1,940	1,820	60,720	3,760	3,640	2010	2,082	1,942	0.93	10%	2.68%	2.81%	70%	65%	2,640	1,120	2,360	1,280
			Spring Forest Road	EAST of Atlantic Avenue	26,653	1,140	1,680	34,485	1,800	2,340	2010	1,218	1,803	0.93	10%	1.84%	1.33%	50%	55%	900	900	1,280	1,060
			Atlantic Avenue	SOUTH of Spring Forest Road	30,629	1,960	1,780	47,196	3,340	3,160	2010	2,093	1,904	0.93	10%	2.15%	2.32%	70%	60%	2,340	1,000	1,900	1,260
			Spring Forest Road	WEST of Atlantic Avenue	30,181	1,180	1,640	41,782	2,140	2,600	2010	1,269	1,753	0.93	10%	2.41%	1.86%	55%	50%	1,180	960	1,300	1,300
62	Spring Forest Road at Atlantic Springs Road	Wednesday, November 17, 2010	Driveway	NORTH of Spring Forest Road	0	0	0	0	0	0	2010	3	6	0.95	10%	-	-	100%	50%	0	0	0	0
			Spring Forest Road	EAST of Atlantic Springs Road	25,324	1,260	1,780	33,751	1,960	2,480	2010	1,333	1,883	0.95	10%	1.78%	1.34%	50%	55%	980	980	1,360	1,120
			Atlantic Springs Road	SOUTH of Spring Forest Road	3,972	60	240	10,421	600	780	2010	73	254	0.95	10%	9.65%	4.83%	65%	55%	390	210	420	360
			Spring Forest Road	WEST of Atlantic Springs Road	26,653	1,220	1,720	34,485	1,880	2,380	2010	1,281	1,809	0.95	10%	1.74%	1.31%	50%	55%	940	940	1,300	1,080
63	Spring Forest Road at Departure Road	Friday, January 02, 2009	Departure Road	NORTH of Spring Forest Road	3,972	380	560	10,421	920	1,100	2010	401	607	0.94	10%	3.60%	2.74%	55%	50%	500	420	550	550
			Spring Forest Road	EAST of Departure Road	25,324	1,420	1,960	33,751	2,120	2,600	2010	1,520	2,092	0.94	10%	1.62%	1.23%	50%	55%	1,060	1,060	1,460	1,200
			Departure Road	SOUTH of Spring Forest Road	3,972	320	400	10,421	860	940	2010	348	425	0.94	10%	4.03%	3.48%	50%	50%	430	430	470	470
			Spring Forest Road	WEST of Departure Road	26,653	1,380	2,000	34,485	2,040	2,660	2010	1,479	2,126	0.94	10%	1.58%	1.15%	50%	55%	1,020	1,020	1,460	1,200
64	Old Wake Forest Road at Shadowland Crossing and Oak Forest Drive	AM	Shadowland Crossing	North of Old Wake Forest Road	0	100	100	0	240	240	2010	103	107	0.94	10%	3.56%	3.56%	50%	55%	120	120	140	100
			Old Wake Forest Road	East of Shadowland Crossing and Oak Forest Drive	18,827	1,180	1,640	43,066	3,200	3,660	2010	1,277	1,761	0.93	10%	4.07%	3.26%	65%	65%	2,080	1,120	2,380	1,280
		PM	Oak Forest Drive	South of Old Wake Forest Road	0	420	480	0	1,000	1,140	2010	452	504	0.94	10%	3.53%	3.52%	65%	55%	650	350	620	520
			Old Wake Forest Road	East of Shadowland Crossing and Oak Forest Drive	0	1,060	1,460	0	2,500	3,460	2010	1,138	1,562	0.93	10%	3.49%	3.51%	60%	65%	1,500	1,000	2,240	1,220
65	Old Wake Forest Road at Barrow Drive and Sumner Boulevard	Tuesday, November 16, 2010	Sumner Boulevard	North of Old Wake Forest Road	2,819	500	340	18,875	1,840	1,680	2010	542	366	0.93	10%	5.35%	6.60%	65%	55%	1,200	640	920	760
			Old Wake Forest Road	East of Sumner Boulevard and Barrow Drive	18,486	1,300	1,620	41,756	3,240	3,560	2010	1,364	1,711	0.95	10%	3.72%	3.20%	70%	60%	2,260	980	2,140	1,420
			Barrow Drive	South of Old Wake Forest Road	3,075	40	80	8,122	460	500	2010	35	95	0.93	10%	10.26%	7.61%	60%	50%	280	180	250	250
			Old Wake Forest Road	West of Sumner Boulevard and Barrow Drive	18,827	1,320	1,760	43,066	3,340	3,780	2010	1,395	1,848	0.95	10%	3.78%	3.10%	60%	60%	2,000	1,340	2,260	1,520
66	Old Wake Forest Road at Ruritania Street	AM	Ruritania Street	North of Old Wake Forest Road	0	400	660	0	940	1,560	2010	436	719	0.91	10%	3.48%	3.50%	55%	65%	520	420	1,020	540
			Old Wake Forest Road	East of Ruritania Street	18,486	1,660	1,960	41,756	3,600	3,900	2010	1,608	1,907	1.03	10%	3.14%	2.79%	65%	65%	2,340	1,260	2,540	1,360
		PM	Driveway	South of Old Wake Forest Road	0	120	260	0	280	620	2010	133	280	0.91	10%	3.45%	3.54%	65%	60%	180	100	380	240
			Old Wake Forest Road	West of Ruritania Street	18,486	1,320	1,560	41,756	3,260	3,500	2010	1,285	1,516	1.03	10%	3.68%	3.29%	65%	65%	2,120	1,140	2,280	1,220
67	Capital Boulevard at Old Wake Forest Road	AM	Capital Boulevard	North of Old Wake Forest Road	75,536	4,100	5,400	94,417	5,680	6,980	2008	4,196	5,514	0.94	10%	1.31%	1.03%	65%	50%	3,700	1,980	3,490	3,490
			Old Wake Forest Road	East of Capital Boulevard	6,361	700	1,360	23,319	2,120	2,780	2008	732	1,410	0.93	10%	4.53%	2.90%	60%	55%	1,280	840	1,520	1,260
		PM	Capital Boulevard	South of Old Wake Forest Road	57,337	3,080	4,260	70,685	4,200	5,380	2008	3,154	4,358	0.94	10%	1.25%	0.94%	65%	50%	2,730	1,470	2,690	2,690
			Old Wake Forest Road	West of Capital Boulevard	18,486	1,380	1,760	41,756	3,320	3,700	2008	1,416	1,809	0.93	10%	3.57%	3.02%	70%	60%	2,320	1,000	2,220	1,480
68	Capital Boulevard at Sumner Boulevard	AM	Capital Boulevard	North of Sumner Boulevard	57,337	3,300	4,220	70,691	4,420	5,340	2008	3,371	4,320	0.94	10%	1.18%	0.95%	65%	55%	2,880	1,540	2,940	2,400
			Sumner Boulevard	East of Capital Boulevard	0	180	1,000	3,569	480	1,300	2008	174	1,004	0.96	10%	4.00%	1.05%	50%	55%	240	240	720	580
		PM	Capital Boulevard	South of Sumner Boulevard	57,337	3,380	4,620	85,363	5,720	6,960	2008	3,460	4,719	0.94	10%	2.13%	1.65%	60%	55%	3,440	2,280	3,820	3,140
			Sumner Boulevard	West of Capital Boulevard	0	120	200	16,585	1,500	1,580	2008	111	197	0.96	10%	10.63%	8.62%	80%	55%	1,200	300	860	720
69	Old Wake Forest Road at Triangle Town Boulevard	Wednesday, December 10, 2008	Triangle Town Boulevard	North of Old Wake Forest Road	0	1,400	1,260	8,456	2,100	1,960	2008	1,469	1,315	0.92	10%	1.64%	1.78%	85%	80%	1,780	320	1,560	400
			Old Wake Forest Road	East of Triangle Town Boulevard	0	1,400	1,760	0	2,940	3,680	2008	1,440	1,792	0.94	10%	3.01%	2.99%	85%	70%	2,500	440	2,580	1,100
			Triangle Town Boulevard	South of Old Wake Forest Road	0	580	620	0	1,220	1,300	2008	607	642	0.92	10%	3.02%	3.01%	75%	75%	920	300	980	320
			Old Wake Forest Road	West of Triangle Town Boulevard	0	580	1,140	8,456	1,280	1,840	2008	584	1,161	0.94	10%	3.22%	1.93%	80%	60%	1,020	260	1,100	740
70	Old Wake Forest Road at Town Center Drive	AM	Town Center Drive	North of Old Wake Forest Road	0	80	280	0	300	1,060	2010	83	305	0.94	10%	5.43%	5.47%	65%	50%	200	100	530	530
			Old Wake Forest Road	East of Town Center Drive	0	460	900	8,456	1,380	2,700	2010	500	957	0.93	10%	4.49%	4.49%	70%	50%	960	420	1,350	1,350
		PM	Town Center Drive	South of Old Wake Forest Road	0	80	320	0	300	1,220	2010	78	341	0.94	10%	5.43%	5.50%	65%	50%	200	100	610	610
			Old Wake Forest Road	West of Town Center Drive	6,361	500	1,120	23,319	1,920	2,540	2010	539	1,213	0.93	10%	5.53%	3.33%	65%	50%	1,240	680	1,270	1,270