



Appendix B – Model Validation Table

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Model Validation Durham-Wake Corridor

ID	Intersection or Crossing Location	Count Date	ROUTE	selected SEGMENT	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	
					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	Hillandale Road at Hillandale-Hillsborough Connector	Tuesday, August 28, 2007	Hillandale Road	NORTH of Hillandale-Hillsborough Conn	0	1,860	2,040	0	3,060	3,340	2,007	2,102	2,109	0.93	10%	2.01%	1.99%	70%	60%	2,140	920	2,000	1,340
			Hillandale-Hillsborough Conn	EAST of Hillandale Road	0	0	20	0	0	40	2,007	6	25	2.81%	100%	75%	0	0	30	10			
			Hillandale Road	SOUTH of Hillandale-Hillsborough Conn	0	1,860	2,060	0	3,060	3,380	2,007	2,103	2,138	0.93	10%	2.01%	2.00%	65%	60%	1,980	1,080	2,020	1,360
			Hillandale-Hillsborough Conn	WEST of Hillandale Road	0	630	960	0	1,040	1,580	2,007	709	992	0.93	10%	2.03%	2.01%	55%	50%	580	460	790	790
2	Hillsborough Road at Hillandale-Hillsborough Connector	Tuesday, March 13, 2007	Hillandale-Hillsborough Conn	NORTH of Hillsborough Road	0	630	960	0	1,040	1,580	2,007	529	876	1.01	10%	2.03%	2.01%	55%	50%	580	460	790	790
			Hillsborough Road	EAST of Hillandale-Hillsborough Conn	7,614	1,060	1,520	15,064	1,680	2,140	2,007	1,122	1,572	1.01	10%	1.86%	1.38%	65%	60%	1,100	580	1,280	860
			-	-	0	0	0	0	0	0	2,007	0	0	1.01	10%	-	-	-	-	-	-	-	-
			Hillsborough Road	WEST of Hillandale-Hillsborough Conn	7,614	1,220	1,800	15,064	1,840	2,420	2,007	1,289	1,866	1.01	10%	1.66%	1.19%	65%	60%	1,200	640	1,460	960
3	Hillsborough Road at W Main Street	Tuesday, November 23, 2010	-	-	0	0	0	0	0	2,010	0	0	0.93	10%	-	-	-	-	-	-	-	-	
			Hillsborough Road	EAST of W Main Street	5,485	540	840	11,016	1,000	1,300	2,010	500	799	0.93	10%	2.50%	1.76%	55%	60%	550	450	780	520
			W Main Street	SOUTH of Hillsborough Road	2,481	540	700	4,596	720	880	2,010	505	666	0.93	10%	1.16%	0.92%	75%	70%	540	180	620	260
			Hillsborough Road	WEST of W Main Street	7,614	1,060	1,520	15,064	1,680	2,140	2,010	997	1,446	0.93	10%	1.86%	1.38%	65%	60%	1,100	580	1,280	860
4	Erwin Road at Anderson Street	Wednesday, March 05, 2008	Anderson Street	NORTH of Erwin Road	5,985	680	980	10,770	1,080	1,380	2,008	648	924	1.01	10%	1.87%	1.38%	55%	65%	590	490	900	480
			Erwin Road	EAST of Anderson Street	8,324	640	880	13,457	1,060	1,300	2,008	609	829	1.01	10%	2.04%	1.57%	70%	65%	740	320	840	460
			Anderson Street	SOUTH of Erwin Road	5,313	620	920	8,569	900	1,200	2,008	597	868	1.01	10%	1.50%	1.07%	55%	55%	500	400	660	540
			Erwin Road	WEST of Anderson Street	12,658	1,160	1,580	18,833	1,680	2,100	2,008	1,108	1,503	1.01	10%	1.49%	1.14%	65%	65%	1,100	580	1,360	740
5	Main Street at 15th Street and Anderson Street	Wednesday, October 27, 2010	15th Street	NORTH of 15th Street and Anderson Street	0	240	360	0	400	600	2,010	254	391	0.94	10%	2.06%	2.06%	55%	75%	220	180	450	150
			Main Street	EAST of Main Street	4,037	480	700	9,851	960	1,180	2,010	506	746	0.94	10%	2.81%	2.11%	60%	55%	580	380	640	540
			Anderson Street	SOUTH of 15th Street and Anderson Street	5,985	580	820	10,770	980	1,220	2,010	619	878	0.94	10%	2.12%	1.60%	65%	65%	640	340	800	420
			Main Street	WEST of Main Street	3,438	520	680	8,870	980	1,140	2,010	557	729	0.94	10%	2.57%	2.09%	70%	60%	680	300	680	460
6	Main Street at Broad Street and Swift Avenue	Wednesday, December 05, 2007	Broad Street	NORTH of Main Street	15,021	900	1,180	16,516	1,020	1,300	2,007	987	1,282	0.92	10%	0.50%	0.39%	55%	50%	560	460	650	650
			Main Street	EAST of Broad Street and Swift Avenue	11,269	720	1,020	19,861	1,440	1,740	2,007	788	1,100	0.92	10%	2.81%	2.16%	55%	50%	800	640	870	870
			Swift Avenue	SOUTH of Main Street	19,785	1,080	1,620	23,902	1,420	1,960	2,007	1,398	1,607	0.92	10%	1.10%	0.76%	55%	50%	780	640	980	980
			Main Street	WEST of Broad Street and Swift Avenue	13,779	840	1,140	27,345	1,980	2,280	2,007	911	1,223	0.92	10%	3.49%	2.81%	60%	55%	1,180	800	1,260	1,020
7	Pettigrew Street at Swift Avenue	Tuesday, November 02, 2010	Swift Avenue	NORTH of Pettigrew Street	19,785	1,080	1,620	23,902	1,420	1,960	2,010	1,173	1,748	0.93	10%	1.10%	0.76%	55%	50%	780	640	980	980
			Pettigrew Street	EAST of Swift Avenue	475	60	100	489	80	120	2,010	68	97	0.93	10%	1.16%	0.73%	75%	70%	60	20	80	40
			Swift Avenue	SOUTH of Pettigrew Street	20,473	1,220	1,760	24,500	1,560	2,100	2,010	1,310	1,894	0.93	10%	0.99%	0.71%	60%	55%	940	620	1,160	940
			Pettigrew Street	WEST of Swift Avenue	1,658	180	200	2,127	220	240	2,010	191	215	0.93	10%	0.81%	0.73%	85%	70%	180	40	160	80
8	Buchanan Boulevard at Main Street	Wednesday, April 14, 2010	Buchanan Boulevard	NORTH of Main Street	7,746	640	780	10,713	880	1,020	2,010	742	907	0.87	10%	1.28%	1.08%	65%	50%	580	300	510	510
			Main Street	EAST of Buchanan Boulevard	6,255	560	860	16,554	1,420	1,720	2,010	634	986	0.87	10%	3.79%	2.81%	65%	55%	920	500	940	780
			Buchanan Boulevard	SOUTH of Main Street	6,893	540	620	9,461	760	840	2,010	631	709	0.87	10%	1.38%	1.22%	60%	55%	460	300	460	380
			Main Street	WEST of Buchanan Boulevard	8,516	700	1,000	18,906	1,560	1,860	2,010	801	1,158	0.87	10%	3.26%	2.51%	55%	55%	860	700	1,020	840
9	Duke Street at Main Street	Tuesday, January 29, 2008	Duke Street	NORTH of Main Street	12,774	1,080	1,300	14,823	1,260	1,480	2,008	1,216	1,459	0.94	10%	0.62%	0.52%	100%	100%	1,260	0	1,480	0
			Main Street	EAST of Duke Street	1,665	300	340	14,207	1,340	1,380	2,008	329	369	0.94	10%	6.17%	5.76%	75%	60%	1,000	340	820	560
			Duke Street	SOUTH of Main Street	14,440	900	1,300	20,270	1,380	1,780	2,008	1,222	1,492	0.94	10%	1.72%	1.26%	100%	100%	1,380	0	1,780	0
			Main Street	WEST of Duke Street	3,833	460	500	13,967	1,300	1,340	2,008	517	556	0.94	10%	4.24%	4.02%	65%	50%	840	460	670	670
10	Duke Street at Memorial Street	Wednesday, November 17, 2010	Duke Street	North of Memorial Street	14,543	940	1,360	20,370	1,420	1,840	2,010	1,016	1,353	0.93	10%	1.66%	1.22%	100%	100%	1,420	0	1,840	0
			-	-	0	0	0	0	0	0	2,010	0	0	0.93	10%	-	-	0%	0%	0	0	0	0
			Duke Street	South of Memorial Street	14,543	940	1,360	20,370	1,420	1,840	2,010	1,040	1,339	0.93	10%	1.66%	1.22%	100%	100%	1,420	0	1,840	0
			Memorial Street	West of Duke Street	0	20	20	0	40	40	2,010	28	18	0.93	10%	2.81%	2.81%	95%	90%	40	0	40	0
11	Chapel Hill Street at Willard Street	Thursday, November 18, 2010	-	-	0	0	0	0	0	2,010	0	0	0.93	10%	-	-	-	-	-	-	-	-	
			Chapel Hill Street	East of Willard Street	17,182	750	1,050	27,117	1,580	1,880	2,010	829	1,104	0.93	10%	3.03%	2.36%	60%	60%	940	640	1,120	760
			Willard Street	South of Chapel Hill Street	0	200	140	0	420	300	2,010	207	151	0.93	10%	3.01%	3.10%	80%	50%	340	80	150	150
			Chapel Hill Street	West of Willard Street	17,530	760	840	27,346	1,580	1,660	2,010	890	1,099	0.93	10%	2.97%	2.76%	70%	60%	1,100	480	1,000	660
12	Chapel Hill Street at W Pettigrew Street	Tuesday, February 16, 2010	-	-	0	0	0	0	0	2,010	0	0	0.91	10%	-	-	-	-	-	-	-	-	
			Chapel Hill Street	East of W Pettigrew Street	12,564	580	840	18,982	1,120	1,380	2,010	639	926	0.91	10%	2.67%	2.01%	50%	65%	560	560	900	480
			W Pettigrew Street	South of Chapel Hill Street	4,914	200	320	9,646	600	720	2,010	217	341	0.91	10%	4.49%	3.30%	80%	60%	480	120	440	280
			Chapel Hill Street	West of W Pettigrew Street	17,182	750	1,050	27,117	1,580	1,880	2,010	812	1,181	0.91	10%	3.03%	2.36%	60%	60%	940	640	1,120	760
13	Corcoran Street at Main Street	Tuesday, November 09, 2010	Corcoran Street	NORTH of Main Street	1,322	280	300	1,431	580	620	2,010	305	329	0.93	10%	2.96%	2.95%	50%	55%	290	290	340	280
			Main Street	EAST of Corcoran Street	1,680	340	380	6,815	760	800	2,010	370	402	0.93	10%	3.27%	3.02%	55%	50%	420	340	400	400
			Corcoran Street	SOUTH of Main Street	4,129	280	300	9,067	700	720	2,010	301	317	0.93	10%	3.73%	3.56%	60%	55%	420	280	400	320
			Main Street	WEST of Corcoran Street	4,478	280	340	8,774	640	700	2,010	298	362	0.93	10%	3.36%	2.93%	55%	50%	360	280	350	350
14	Corcoran Street at Ramscur Street	Thursday, November 06, 2008	Corcoran Street	NORTH of Ramscur Street	4,129	280	300	9,067	700	720	2,008	150	394	0.93	10%	3.73%	3.56%	60%	55%	420	280	400	320
			Ramscur Street	EAST of Corcoran Street	12,074	260	300	22,672	1,140	1,180	2,008	142	387	0.93	10%	6.09%	5.63%	100%	100%	1,140	0	1,180	0
			Corcoran Street	SOUTH of Ramscur Street	6,224	300	360	13,980	940	1,000	2,008	159	465	0.93	10%	4.67%	4.17%	60%	60%	560	380	600	400
			Ramscur Street																				

Model Validation Durham-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	Fayetteville Street at West Pettigrew Street	Thursday, October 23, 2008	Fayetteville Street	NORTH of West Pettigrew Street	13,624	600	860	12,080	1,060	1,320	2,008	647	924	0.89	10%	2.30%	1.73%	55%	55%	580	480	720	600
			West Pettigrew Street	EAST of Fayetteville Street	1,655	120	220	6,168	500	600	2,008	134	230	0.89	10%	5.87%	4.09%	65%	60%	320	180	360	240
			Fayetteville Street	SOUTH of West Pettigrew Street	23,080	700	1,040	34,742	1,680	2,020	2,008	749	1,125	0.89	10%	3.56%	2.69%	55%	60%	920	760	1,220	800
			West Pettigrew Street	WEST of Fayetteville Street	11,336	160	280	18,350	740	860	2,008	180	301	0.89	10%	6.32%	4.59%	65%	75%	480	260	640	220
22	Grant Street at East Pettigrew Street	Wednesday, May 09, 2007	Grant Street	NORTH of East Pettigrew Street	0	80	120	0	160	260	2,007	78	114	0.99	10%	2.81%	3.14%	55%	55%	80	80	140	120
			East Pettigrew Street	EAST of Grant Street	0	240	300	0	500	620	2,007	229	292	0.99	10%	2.98%	2.95%	60%	65%	300	200	400	220
			Grant Street	SOUTH of East Pettigrew Street	0	80	120	0	160	260	2,007	72	115	0.99	10%	2.81%	3.14%	65%	65%	100	60	160	100
			East Pettigrew Street	WEST of Grant Street	0	120	160	0	260	340	2,007	117	153	0.99	10%	3.14%	3.06%	60%	70%	160	100	240	100
23	Pettigrew Street at Plum Street	Tuesday, October 26, 2010	Plum Street	NORTH of Pettigrew Street	0	80	140	0	160	300	2,010	90	149	0.89	10%	2.81%	3.10%	60%	55%	100	60	160	140
			Pettigrew Street	EAST of Plum Street	0	260	300	0	540	620	2,010	290	346	0.89	10%	2.97%	2.95%	55%	55%	300	240	340	280
			-	-	0	0	0	0	0	2,010	3	5	0.89	10%	-	-	100%	60%	0	0	0	0	
			Pettigrew Street	WEST of Plum Street	0	260	340	0	540	720	2,010	293	392	0.89	10%	2.97%	3.05%	50%	55%	270	270	400	320
24	Peabody Street at Driver Street	Tuesday, October 26, 2010	Driver Street	NORTH of Peabody Street	0	340	480	0	720	1,000	2,010	389	533	0.89	10%	3.05%	2.98%	70%	60%	500	220	600	400
			Peabody Street	EAST of Driver Street	0	10	20	0	20	40	2,010	6	17	0.89	10%	2.81%	2.81%	50%	70%	10	10	20	20
			Driver Street	SOUTH of Peabody Street	0	340	480	0	720	1,000	2,010	392	541	0.89	10%	3.05%	2.98%	70%	65%	500	220	650	350
			Peabody Street	WEST of Driver Street	0	10	20	0	20	40	2,010	3	13	0.89	10%	2.81%	2.81%	65%	55%	10	10	20	20
25	Pettigrew Street at Driver Street	Tuesday, October 26, 2010	Driver Street	NORTH of Pettigrew Street	0	340	480	0	720	1,000	2,010	364	547	0.89	10%	3.05%	2.98%	70%	65%	500	220	650	350
			Pettigrew Street	EAST of Driver Street	0	300	360	0	620	760	2,010	330	407	0.89	10%	2.95%	3.03%	60%	60%	380	240	460	300
			Driver Street	SOUTH of Pettigrew Street	0	0	0	0	0	0	0	0	0.00	0%	0.00%	0.00%	0%	0%	0	0	0	0	
			Pettigrew Street	WEST of Driver Street	0	280	360	0	580	760	2,010	318	412	0.89	10%	2.96%	3.03%	60%	60%	340	240	460	300
26	Angier Avenue at Glover Road	Tuesday, November 30, 2010	Angier Avenue	NORTH of Glover Road	5,880	560	660	7,209	680	780	2,010	591	690	0.95	10%	0.78%	0.67%	50%	55%	340	340	420	360
			-	-	0	0	0	11,641	980	980	2,010	0	0	0.95	10%	-	-	70%	65%	680	300	640	340
			Angier Avenue	SOUTH of Glover Road	8,083	580	700	5,766	380	500	2,010	606	746	0.95	10%	-1.68%	-1.34%	55%	55%	200	180	280	220
			Glover Road	WEST of Angier Avenue	3,168	300	240	13,537	1,160	1,100	2,010	325	263	0.95	10%	5.56%	6.28%	70%	65%	820	340	720	380
27	Angier Avenue at Wrenn Road	Wednesday, November 03, 2010	-	-	0	-	-	0	-	-	2,010	-	-	-	-	-	-	-	-	-	-	-	
			Angier Avenue	EAST of Wrenn Road	8,110	620	680	7,250	540	600	2,010	651	726	0.95	10%	-0.55%	-0.50%	60%	55%	320	220	330	270
			Wrenn Road	SOUTH of Angier Avenue	834	40	60	3,436	260	280	2,010	52	67	0.95	10%	7.77%	6.36%	50%	60%	130	130	160	120
			Angier Avenue	WEST of Wrenn Road	8,083	600	680	5,766	400	480	2,010	637	713	0.95	10%	-1.61%	-1.38%	60%	55%	240	160	260	220
28	Ellis Road at Research Triangle Academy	Tuesday, November 30, 2010	-	-	0	0	0	0	0	0	0	0	0	-	-	0.00%	0.00%	0%	0%	0	0		
			Ellis Road	EAST of Research Triangle Academy	10,876	1,160	1,360	7,467	1,480	1,480	2,010	1,220	1,426	0.95	10%	0.98%	0.34%	70%	80%	1,040	440	1,180	300
			Research Triangle Academy	SOUTH of Ellis Road	1,507	300	160	3,448	380	380	2,010	308	159	0.95	10%	0.95%	3.52%	100%	100%	380	0	380	0
			Ellis Road	WEST of Research Triangle Academy	7,146	1,300	1,340	8,623	1,660	1,660	2,010	1,372	1,413	0.95	10%	0.98%	0.86%	80%	75%	1,320	340	1,240	420
29	Miami Boulevard at Cornwallis Road	Thursday, May 22, 2008	Miami Boulevard	NORTH of Cornwallis Road	15,788	1,840	1,900	20,530	3,020	3,120	2,008	1,895	1,963	0.93	10%	2.00%	2.00%	55%	60%	1,660	1,360	1,880	1,240
			Cornwallis Road	EAST of Miami Boulevard	0	460	460	7,229	760	760	2,008	482	467	0.93	10%	2.03%	2.03%	95%	95%	720	40	720	40
			Miami Boulevard	SOUTH of Cornwallis Road	31,627	2,380	2,400	33,047	3,900	3,940	2,008	2,447	2,474	0.93	10%	2.00%	2.00%	60%	55%	2,340	1,560	2,160	1,780
			Cornwallis Road	WEST of Miami Boulevard	19,325	760	880	23,716	1,120	1,240	2,008	772	900	0.93	10%	1.56%	1.38%	60%	65%	680	440	800	440
30	Chapel Hill Road at McCrimmon Parkway	Wednesday, November 03, 2010	Chapel Hill Road	NORTH of McCrimmon Parkway	12,434	1,600	1,480	45,684	4,380	4,260	2,010	1,489	1,373	1.08	10%	4.11%	4.32%	60%	50%	2,620	1,760	2,130	2,130
			McCrimmon Parkway	EAST of Chapel Hill Road	0	0	0	21,882	1,820	1,820	2,010	0	0	0.00	10%	-	-	60%	55%	1,100	720	1,000	820
			Chapel Hill Road	SOUTH of McCrimmon Parkway	16,734	1,480	1,660	42,270	3,600	3,780	2,010	1,367	1,544	1.08	10%	3.62%	3.35%	50%	55%	1,800	1,800	2,080	1,700
			McCrimmon Parkway	WEST of Chapel Hill Road	9,807	1,170	1,140	37,746	3,500	3,460	2,010	1,262	1,225	0.95	10%	4.48%	4.54%	65%	55%	2,280	1,220	1,900	1,560
31	McCrimmon Parkway and Church Street	Thursday, November 18, 2010	Church Street	NORTH of McCrimmon Parkway	8,094	480	740	11,536	760	1,020	2,010	496	778	0.95	10%	1.86%	1.29%	60%	80%	460	300	820	200
			McCrimmon Parkway	EAST of Church Street	9,807	1,170	1,140	37,746	3,500	3,460	2,010	1,198	1,183	0.95	10%	4.48%	4.54%	75%	60%	2,620	880	2,080	1,380
			Church Street	SOUTH of McCrimmon Parkway	4,064	460	500	9,784	940	980	2,010	492	537	0.95	10%	2.90%	2.73%	65%	75%	620	320	740	240
			McCrimmon Parkway	WEST of Church Street	16,703	1,100	1,280	44,639	3,420	3,600	2,010	1,150	1,358	0.95	10%	4.64%	4.22%	65%	65%	2,220	1,200	2,340	1,260
32	Chapel Hill Road at Aviation Parkway/Morrisville Carpenter Road	Tuesday, October 26, 2010	Chapel Hill Road	NORTH of Aviation Parkway/Morrisville Carpenter Road	19,393	1,180	1,380	41,512	3,020	3,220	2,010	1,286	1,500	0.92	10%	3.83%	3.45%	75%	65%	2,260	760	2,100	1,120
			Aviation Parkway	EAST of Chapel Hill Road	9,826	980	1,120	26,299	2,360	2,500	2,010	1,057	1,192	0.94	10%	3.58%	3.26%	65%	55%	1,540	820	1,380	1,120
			Chapel Hill Road	SOUTH of Aviation Parkway/Morrisville Carpenter Road	19,950	1,400	1,640	51,480	4,020	4,260	2,010	1,516	1,791	0.92	10%	4.31%	3.89%	70%	60%	2,820	1,200	2,560	1,700
			Morrisville Carpenter Road	WEST of Chapel Hill Road	13,229	1,300	1,590	31,005	2,780	3,080	2,010	1,421	1,667	0.94	10%	3.09%	2.68%	65%	60%	1,800	980	1,840	1,240
33	Morrisville Carpenter Road at Church Street	Tuesday, October 26, 2010	Church Street	NORTH of Morrisville Carpenter Road	4,715	240	280	11,178	780	820	2,010	273	324	0.89	10%	4.83%	4.39%	55%	65%	420	360	540	280
			Morrisville Carpenter Road	EAST of Church Street	13,229	1,300	1,590	31,005	2,780	3,080	2,010	1,349	1,733	0.94	10%	3.09%	2.68%	65%	60%	1,800	980	1,840	1,240
			-	-	0	0	0	0	0	0	0	0	0.00	0%	0.00%	0.00%	0%	0%	0	0	0	0	
			Morrisville Carpenter Road	WEST of Church Street	9,850	1,020	1,460	26,279	2,380	2,820	2,010	1,141	1,636	0.89	10%	3.45%	2.67%	70%	65%	1,660	720	1,840	980
34	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	2,009	532	1,162	0.95	10%	4.04%	3.18%	20%	10%	280	1,120	160	1,460
			W Chatham Street	East of Harrison Avenue	21,819	860	900	25,760	1,180	1,220	2,009	887	1,399	0.89	10%	1.27%	1.22%	80%	60%	940	240	740	480
			Harrison Avenue	South of W Chatham St	5,589	720	580	9,372	1,040	900	2,009	759	905	0.95	10%	1.48%	1.77%	5%	5%	60	980	40	860
			W Chatham Street	West of Harrison Avenue	19,772	960	800																

Model Validation Durham-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	NC 54 (Chapel Hill Road) at Nowell Road	Friday, February 20, 2009	Nowell Road	NORTH of NC 54 (Chapel Hill Road)	0	460	440	0	960	920	2,009	437	413	1.03	10%	2.99%	2.99%	70%	65%	680	280	600	320
			NC 54 (Chapel Hill Road)	EAST of Nowell Road	0	880	800	0	1,840	1,680	2,009	716	655	1.21	10%	2.99%	3.01%	50%	60%	920	920	1,000	680
			Nowell Road	SOUTH of NC 54 (Chapel Hill Road)	0	300	220	0	620	460	2,009	293	210	1.03	10%	2.95%	2.99%	80%	55%	500	120	260	200
			NC 54 (Chapel Hill Road)	WEST of Nowell Road	18,275	1,340	1,160	33,890	2,640	2,460	2,009	1,088	938	1.21	10%	2.75%	3.05%	50%	60%	1,320	1,320	1,480	980
42	Hillsborough Street at Nowell Road	Monday, October 11, 2010	Nowell Road	North of Hillsborough Street	3,566	400	320	11,680	1,080	1,000	2,010	432	339	0.94	10%	4.05%	4.66%	80%	60%	860	220	600	400
			Hillsborough Street	East of Nowell Road	15,882	1,600	1,660	27,532	2,580	2,640	2,010	1,705	1,771	0.94	10%	1.93%	1.87%	50%	55%	1,290	1,290	1,460	1,180
			-	South of Hillsborough Street	0	0	0	0	0	0	2,010	0	0	0.94	10%	0.00%	0.00%	0%	0%	0	0	0	0
			E Chatham Street	West of Nowell Road	18,273	1,360	1,520	33,890	2,660	2,820	2,010	1,443	1,616	0.94	10%	2.72%	2.50%	60%	60%	1,600	1,060	1,700	1,120
43	Chapel Hill Street at Hillsborough Street	Friday, March 27, 2009	Chapel Hill Street	North of Hillsborough Street	12,179	460	460	26,908	1,680	1,680	2,009	445	441	1.01	10%	5.32%	5.32%	95%	95%	1,600	80	1,600	80
			Hillsborough Street	East of Chapel Hill Street	16,075	1,280	1,280	23,744	1,920	1,920	2,009	1,235	1,245	1.01	10%	1.64%	1.64%	55%	55%	1,060	860	1,060	860
			Chapel Hill Street	South of Hillsborough Street	0	0	0	0	0	0	2,010	0	0	0.00	0%	-	-	0%	0%	0	0	0	0
			Hillsborough Street	West of Chapel Hill Street	8,717	920	960	16,140	1,540	1,580	2,009	896	934	1.01	10%	2.08%	2.01%	65%	65%	1,000	540	1,020	560
44	NC 54 at Powell Drive	Tuesday, October 12, 2010	Powell Drive	North of NC 54	0	0	0	0	0	0	2,010	0	0	0.00	0%	0.00%	0.00%	0%	0%	0	0	0	0
			NC 54	East of Powell Drive	11,331	1,560	1,640	12,373	2,200	2,280	2,010	1,694	1,788	0.92	10%	1.38%	1.33%	60%	60%	1,320	880	1,360	920
			Powell Drive	South of NC 54	4,812	180	200	12,381	820	840	2,010	195	226	0.89	10%	6.25%	5.91%	55%	70%	460	360	580	260
			NC 54	West of Powell Drive	16,145	1,580	1,620	23,744	2,220	2,260	2,010	1,707	1,759	0.92	10%	1.37%	1.34%	60%	55%	1,340	880	1,240	1,020
45	NC 54 at Beryl Road	Friday, March 27, 2009	NC 54	North of NC 54	0	0	0	0	0	0	2,010	0	0	0.00	10%	-	-	-	-	-	-	-	-
			NC 54	East of Beryl Road	22,816	1,920	2,760	33,463	2,800	3,640	2,009	1,701	2,437	1.11	10%	1.52%	1.11%	65%	55%	1,820	980	2,000	1,640
			Beryl Road	South of NC 54	2,756	360	580	11,477	1,080	1,300	2,009	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	2,009	1,603	2,296	1.11	10%	1.71%	1.26%	65%	60%	1,800	980	2,140	1,420
46	NC 54 at Royal Street	Tuesday, October 12, 2010	NC 54	North of NC 54	0	0	0	0	0	0	2,010	0	0	0.00	10%	-	-	-	-	-	-	-	-
			NC 54	East of Royal Street	0	1,480	2,240	0	2,360	3,120	2,010	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	2,010	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	2,010	1,626	2,426	0.92	10%	1.86%	1.33%	55%	55%	1,300	1,080	1,720	1,400
47	Cabarrus Street at Dawson Street	Wednesday, August 05, 2009	Dawson Street	NORTH of Cabarrus Street	0	1,340	2,580	0	2,200	4,240	2,009	1,470	2,840	0.89	10%	2.00%	2.01%	100%	100%	2,200	0	4,240	0
			Cabarrus Street	EAST of Dawson Street	0	180	140	0	300	220	2,009	195	163	0.89	10%	2.06%	1.82%	85%	70%	260	40	160	60
			Dawson Street	SOUTH of Cabarrus Street	0	1,200	2,620	0	1,960	4,300	2,009	1,327	2,876	0.89	10%	1.98%	2.00%	100%	100%	1,960	0	4,300	0
			Cabarrus Street	WEST of Dawson Street	0	100	120	0	160	200	2,009	110	131	0.89	10%	1.90%	2.06%	55%	60%	80	80	120	80
48	Cabarrus Street at West Street	Wednesday, October 27, 2010	West Street	NORTH of Cabarrus Street	0	40	60	0	60	100	2,010	54	70	0.89	10%	1.64%	2.06%	70%	70%	40	20	70	30
			Cabarrus Street	EAST of West Street	0	100	120	0	160	200	2,010	120	144	0.89	10%	1.90%	2.06%	60%	55%	100	60	110	90
			West Street	SOUTH of Cabarrus Street	0	60	80	0	100	140	2,010	59	83	0.89	10%	2.06%	2.26%	90%	65%	90	10	100	40
			Cabarrus Street	WEST of West Street	0	80	100	0	140	160	2,010	87	123	0.89	10%	2.26%	1.90%	50%	60%	70	70	100	60
49	Person Street at Hammond Road and Hoke Street	Friday, August 13, 2010	Hoke Street	NORTH of Person Street	0	1,160	320	0	1,900	520	2,010	1,301	360	0.89	10%	1.99%	1.96%	100%	100%	1,900	0	520	0
			Person Street	EAST of Hoke Street and Hammond Road	0	260	220	0	420	360	2,010	299	254	0.89	10%	1.94%	1.99%	50%	55%	210	210	200	160
			Hammond Road	SOUTH of Person Street	0	1,220	320	0	2,000	520	2,010	1,359	352	0.89	10%	2.00%	1.96%	100%	100%	2,000	0	520	0
			Person Street	WEST of Hoke Street and Hammond Road	0	260	240	0	420	400	2,010	285	270	0.89	10%	1.94%	2.06%	60%	55%	260	160	220	180
50	Hammond Road at Rush Street	Thursday, July 29, 2010	Hammond Road	NORTH of Rush Street	28,907	1,940	2,700	43,964	3,200	3,960	2,010	2,086	2,911	0.93	10%	2.02%	1.54%	60%	65%	1,920	1,280	2,580	1,380
			Rush Street	EAST of Hammond Road	7,430	440	660	15,483	1,120	1,340	2,010	464	703	0.93	10%	3.81%	2.87%	55%	50%	620	500	670	670
			Hammond Road	SOUTH of Rush Street	28,268	1,800	2,620	43,169	2,960	4,300	2,010	1,939	2,822	0.93	10%	2.01%	2.00%	65%	65%	1,920	1,040	2,800	1,500
			Rush Street	WEST of Hammond Road	12,456	360	540	21,049	1,080	1,260	2,010	379	584	0.93	10%	4.49%	3.45%	70%	55%	760	320	700	560
51	Garner Road at Yeagan Road	Thursday, October 28, 2010	Yeagan Road	NORTH of Garner Road	9,900	820	980	20,342	1,340	1,600	2,010	868	958	0.94	10%	1.98%	1.98%	75%	70%	1,000	340	1,120	480
			Yeagan Road	EAST of Garner Road	0	0	0	0	0	0	2,010	0	0	0.00	0%	0.00%	0.00%	0%	0%	0	0	0	0
			Garner Road	SOUTH of Yeagan Road	10,848	900	1,100	20,375	1,700	1,900	2,010	947	1,080	0.94	10%	2.58%	2.21%	80%	75%	1,360	340	1,420	480
			Yeagan Road	WEST of Garner Road	4,079	280	380	7,227	540	640	2,010	305	370	0.94	10%	2.66%	2.11%	70%	70%	380	160	440	200
52	Yeagan Road and Mechanical Boulevard	Thursday, October 28, 2010	Mechanical Boulevard	NORTH of Yeagan Road	3,829	200	320	4,442	320	520	2,010	224	305	0.94	10%	1.90%	1.96%	85%	85%	280	40	440	80
			Yeagan Road	EAST of Mechanical Boulevard	4,079	280	380	7,227	540	640	2,010	300	373	0.94	10%	2.66%	2.11%	70%	70%	380	160	440	200
			-	South of Yeagan Road	0	0	0	0	0	0	2,010	0	0	0.00	0%	0.00%	0.00%	0%	0%	0	0	0	0
			Yeagan Road	WEST of Mechanical Boulevard	1,086	220	320	4,050	460	560	2,010	234	314	0.94	10%	2.99%	2.26%	60%	60%	280	180	340	220
53	Garner Road at Vandora Springs Road	Wednesday, November 10, 2010	Garner Road	EAST of Vandora Springs Road	9,437	980	1,120	16,797	1,600	1,740	2,010	1,050	1,252	0.95	10%	1.98%	1.78%	70%	65%	1,120	480	1,140	600
			Vandora Springs Road	SOUTH of Garner Road	5,639	720	820	11,678	1,220	1,320	2,010	764	917	0.95	10%	2.13%	1.92%	65%	60%	800	420	800	520
			Garner Road	WEST of Vandora Springs Road	10,846	900	1,100	20,375	1,700	1,900	2,010	960	1,235	0.95	10%	2.58%	2.21%	80%	75%	1,360	340	1,420	480
			Broughton Street	NORTH of W Garner Road	0	240	60	0	400	100	2,010	254	63	0.95	10%	2.06%	2.06%	60%	55%	240	160	60	40
54	W Garner Road at Benson Road	Tuesday, November 23, 2010	W Garner Road	EAST of Benson Road/Broughton Street	4,521	990	1,080	9,954	1,440	1,540	2,010	1,020	1,136	0.95	10%	1.51%	1.43%	50%	60%	800	640	920	620
			Benson Road	SOUTH of W Garner Road	7,072	680	660	11,741	1,060	1,040	2,010	720	704	0.95	10%	1.79%	1.84%	55%	60%	580	480	620	420
			W Garner Road	WEST of Benson Road/Broughton Street	8,671	880	1,020	16,608	1,540	1,680	2,010	928	1,071	0.95	10%	2.26%	2.02%	65%	65%	1,000	5		

