

2009 Highway Mobility Report

Appendix A: List of Most Recent Critical Lane Volumes at Signalized Intersections

INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Darnestown-Germantown Rd at Wisteria Dr	10/18/2007	964	1594	1450	Germantown Town Center
Deer Park Dr at Railroad Ave	5/6/2003	1060	1034	1475	Derwood
Democracy Blvd at Falls Rd/S Glen Rd	4/1/2009	1594	1167	1475	Potomac
Democracy Blvd at Fernwood Rd	3/14/2006	1185	1348	1550	North Bethesda
Democracy Blvd at I-270	6/3/2004	1184	1371	1475	Potomac
Democracy Blvd at Rockledge Dr	4/21/2005	724	1013	1550	North Bethesda
Democracy Blvd at Seven Locks Rd	4/21/2009	1043	1429	1475	Potomac
Democracy Blvd at Westlake Terr	5/24/2005	835	869	1475	Potomac
E Gude Dr at Calhoun Dr	10/27/2005	1175	1084	1475	Derwood
E Gude Dr at Crabbs Branch/Cecil	3/24/2009	1742	1211	1475	Derwood
E Gude Dr at Southlawn Ln	3/5/2009	1692	1450	1500	Rockville City
E Randolph Rd at Fairland Rd/Octagon La	6/1/2006	1081	1357	1500	Fairland/White Oak
E Randolph Rd at Old Columbia Pike	9/13/2007	903	1080	1500	Fairland/White Oak
E Randolph Rd at Serpentine Way	9/13/2007	718	873	1500	Fairland/White Oak
E Randolph Rd at Tamarack Ln	10/29/2003	633	589	1500	Fairland/White Oak
E Wayne Ave at Flower Ave	5/18/2005	861	954	1600	Silver Spring/Takoma Park
East Diamond Ave at Summit Ave	4/24/2003	840	1051	1450	Gaithersburg City
East West Hwy at Jones Mill/Beach	3/5/2009	1087	1574	1600	Bethesda/Chevy Chase
East West Hwy at Newell/Blair Mill	12/14/2005	745	838	1800	Silver Spring CBD
East-West Hwy at 16th St	2/12/2009	1303	1299	1600	Silver Spring/Takoma Park
East-West Hwy at Blair Park Plz/NOAA	12/6/2006	489	541	1800	Silver Spring CBD
East-West Hwy at Chelton	4/19/2006	1147	690	1800	Bethesda CBD
East-West Hwy at Grubb Rd	2/6/2007	1203	1081	1600	Silver Spring/Takoma Park
East-West Hwy at Meadowbrook Ln	2/13/2002	1091	1268	1600	Silver Spring/Takoma Park
East-West Hwy at Montgomery Ave	4/19/2006	1082	678	1800	Bethesda CBD
East-West Hwy at Pearl St	4/19/2006	882	734	1800	Bethesda CBD
East-West Hwy at Sundale/Washington	9/15/2005	922	846	1600	Silver Spring/Takoma Park
East-West Hwy at Waverly	4/30/2008	548	503	1800	Bethesda CBD
Edgemoor Ln at Woodmont Ave	1/31/2007	912	734	1800	Bethesda CBD
Ethan Allen Ave (MD 410) at Carroll Ave	2/27/2007	403	574	1600	Silver Spring/Takoma Park
Executive Blvd at Marinelli Rd	3/10/2005	376	569	1800	White Flint
Executive Blvd at Nicholson Ln	3/10/2005	755	751	1800	White Flint
Fairland Rd at Old Columbia Pike	9/6/2007	1336	1386	1500	Fairland/White Oak
Falls Rd at Bells Mill Rd	5/29/2003	885	995	1475	Potomac
Falls Rd at Dunster/Falls Chapel	3/15/2007	1115	957	1500	Rockville City
Falls Rd at Kersey	10/18/2001	1068	1009	1500	Rockville City
Falls Rd at Tuckerman Ln/Falls Chapel	3/7/2007	978	1006	1475	Potomac
Falls Rd at Wootton Pkwy	11/8/2006	1313	1203	1500	Rockville City

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Father Hurley Blvd at Crystal Rock Dr	1/11/2007	984	956	1450	Germantown West
Father Hurley Blvd at Middlebrook Rd	5/17/2006	1102	1139	1450	Germantown West
Fenton St at Bonifant St	9/19/2006	684	849	1800	Silver Spring CBD
Fenton St at Burlington Ave	3/3/2005	1169	1046	1800	Silver Spring CBD
Fenton St at Cameron St	11/16/2005	473	644	1800	Silver Spring CBD
Fenton St at Ellsworth Ln	9/13/2006	419	678	1800	Silver Spring CBD
Fenton St at Silver Spring Ave	1/10/2008	562	899	1800	Silver Spring CBD
Fenton St at Sligo Ave	1/26/2005	988	1087	1800	Silver Spring CBD
Fenton St at Thayer Ave	9/13/2006	719	878	1800	Silver Spring CBD
Fenton St at Wayne Ave	9/14/2006	1090	1060	1800	Silver Spring CBD
Fernwood Rd at Rock Spring Dr/Marriott	3/9/2006	646	820	1550	North Bethesda
Fernwood Rd at Rockledge Dr/Westlake Ter	3/9/2006	857	838	1550	North Bethesda
Fields Rd at Rio Blvd	9/13/2005	439	1029	1475	R&D Village
Fields Rd at Washingtonian Blvd	9/14/2005	455	747	1475	R&D Village
First St at Baltimore Rd	1/22/2009	1061	1601	1500	Rockville City
Frederick Ave at Education Blvd	10/27/2004	1324	944	1450	Gaithersburg City
Frederick Ave at Plummer Dr	12/7/2005	999	959	1450	Germantown East
Frederick Ave at Travis	10/13/2004	1056	1212	1450	Gaithersburg City
Frederick Rd (MD 355) at King Farm Blvd	1/6/2008	1158	1538	1800	Shady Grove
Frederick Rd (MD 355) at Lockheed / IBM	11/16/2004	991	876	1450	Gaithersburg City
Frederick Rd (MD 355) at Milestone CtrS	10/14/2004	1054	955	1450	Germantown East
Frederick Rd at Chestnut St	3/25/2009	1144	1191	1450	Gaithersburg City
Frederick Rd at Christopher St	2/26/2009	1057	1417	1450	Gaithersburg City
Frederick Rd at Clarksburg Rd	7/26/2007	890	1329	1450	Clarksburg
Frederick Rd at Darnestown-Germantown Rd	4/16/2009	1247	1490	1450	Germantown East
Frederick Rd at Deer Park Dr	3/10/2004	1381	1192	1475	Derwood
Frederick Rd at Gunners Branch Rd	10/23/2007	975	862	1450	Germantown East
Frederick Rd at Henderson Corner Rd	3/17/2009	1106	938	1450	Germantown East
Frederick Rd at Lakeforest/Perry	3/10/2004	995	974	1450	Gaithersburg City
Frederick Rd at Montgomery Village Ave	5/5/2009	1697	1553	1450	Gaithersburg City
Frederick Rd at Odenhal Ave	3/31/2009	1013	1272	1450	Gaithersburg City
Frederick Rd at Old Hundred Rd (MD 109)	3/18/2009	1068	988	1400	Goshen
Frederick Rd at Redland Rd	10/19/2004	1542	1418	1800	Shady Grove
Frederick Rd at Shady Grove Rd	3/10/2005	1649	1497	1800	Shady Grove
Frederick Rd at Shakespeare Blvd	2/19/2009	1190	1138	1450	Germantown East
Frederick Rd at Solid Waste Drwy	9/21/2004	1280	1102	1800	Shady Grove
Georgia Ave at 16th St	3/4/2009	974	1269	1600	Silver Spring/Takoma Park

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Georgia Ave at Arcola Ave	1/22/2008	1103	1538	1600	Kensington/Wheaton
Georgia Ave at Aspen Hill Rd	6/6/2006	1018	1130	1500	Aspen Hill
Georgia Ave at August Dr	4/16/2009	1235	1214	1600	Kensington/Wheaton
Georgia Ave at Bel Pre Rd	6/1/2006	1530	1530	1500	Aspen Hill
Georgia Ave at Blueridge	11/28/2007	1114	1206	1800	Wheaton CBD
Georgia Ave at Bonifant St	9/26/2007	864	876	1800	Silver Spring CBD
Georgia Ave at Cameron St	11/16/2005	1081	866	1800	Silver Spring CBD
Georgia Ave at Columbia Blvd/Seminary Ln	1/8/2009	1408	1613	1600	Silver Spring/Takoma Park
Georgia Ave at Connecticut Ave	5/31/2006	1377	1539	1500	Aspen Hill
Georgia Ave at Dennis Ave	11/15/2007	1067	1293	1600	Kensington/Wheaton
Georgia Ave at East-West/Burlington/13th	12/7/2006	1471	1190	1800	Silver Spring CBD
Georgia Ave at Emory Ln	10/23/2007	1314	1738	1450	Olney
Georgia Ave at Forest Glen Rd	7/2/2008	1318	1626	1600	Kensington/Wheaton
Georgia Ave at Glenallen Ave	2/26/2008	867	1120	1800	Glenmont
Georgia Ave at Gold Mine Rd	3/15/2007	855	814	1475	Olney
Georgia Ave at Hathaway Dr	2/26/2008	1097	858	1600	Kensington/Wheaton
Georgia Ave at Hewitt Ave	1/12/2005	807	931	1600	Kensington/Wheaton
Georgia Ave at Hines/Prince Phillip	3/6/2007	1221	1145	1475	Olney
Georgia Ave at I-495 ramps	11/14/2007	1318	1042	1600	Kensington/Wheaton
Georgia Ave at International	12/18/2003	931	1012	1500	Aspen Hill
Georgia Ave at King William Dr	12/9/2003	1192	1095	1475	Olney
Georgia Ave at Layhill Rd	2/26/2008	1145	1138	1800	Glenmont
Georgia Ave at MD 108	5/21/2008	1147	1114	1475	Olney
Georgia Ave at Morningwood/Spartan	3/4/2009	1142	1308	1475	Olney
Georgia Ave at New Hampshire Ave	10/21/2008	1441	1176	1400	Patuxent
Georgia Ave at Norbeck Rd	1/22/2009	1816	1665	1500	Aspen Hill
Georgia Ave at Old Baltimore Rd	10/24/2007	1147	1125	1475	Olney
Georgia Ave at Plyers Mill Rd	3/26/2009	1425	1250	1600	Kensington/Wheaton
Georgia Ave at Prince Phillip/Queen Eliz	7/24/2008	1016	1116	1475	Olney
Georgia Ave at Randolph Rd	3/31/2009	1281	1657	1800	Glenmont
Georgia Ave at Reedie Dr	11/28/2007	1032	1184	1800	Wheaton CBD
Georgia Ave at Rossmoor Ln	8/21/2007	1176	1176	1500	Aspen Hill
Georgia Ave at Seminary	6/11/2008	1544	1034	1600	Silver Spring/Takoma Park
Georgia Ave at Shorefield Ln	2/26/2008	1104	1017	1600	Kensington/Wheaton
Georgia Ave at Sligo Ave	9/20/2007	719	975	1800	Silver Spring CBD
Georgia Ave at Spring St	11/17/2005	1176	1080	1800	Silver Spring CBD
Georgia Ave at Thayer St	9/26/2007	771	858	1800	Silver Spring CBD
Georgia Ave at University Blvd	11/28/2007	1269	1171	1800	Wheaton CBD

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Georgia Ave at Urbana Ln	2/26/2008	674	681	1800	Glenmont
Georgia Ave at Veirs Mill Rd	6/7/2007	1410	1424	1800	Wheaton CBD
Georgia Ave at Wayne Ave	9/25/2007	1028	1171	1800	Silver Spring CBD
Georgia Ave at Windham Ln	6/6/2007	1211	1247	1800	Wheaton CBD
Germantown Rd (MD 118) at Goldenrod Rd	4/30/2009	678	1049	1450	Germantown East
Germantown Rd at Dawson Farm Rd	4/22/2009	1100	1295	1450	Germantown West
Goshen Rd at Centerway Rd	9/19/2002	1214	1212	1450	Montgomery Village/Airpark
Goshen Rd at E Village Ave	3/25/2004	1025	891	1450	Montgomery Village/Airpark
Goshen Rd at Emory Grove Rd	4/15/2009	873	1061	1450	Montgomery Village/Airpark
Goshen Rd at Snouffer School/Wightman	1/4/2006	1041	1366	1450	Montgomery Village/Airpark
Goshen Rd at Warfield Rd	3/25/2004	1078	1105	1450	Montgomery Village/Airpark
Goshen Rd/N Summit at Odenhal Ave	5/9/2006	983	1225	1450	Montgomery Village/Airpark
Great Seneca Hwy at Clopper Mill/Richter	12/14/2004	1082	836	1450	Germantown West
Great Seneca Hwy at Darnestown Rd	9/27/2007	1028	1009	1475	R&D Village
Great Seneca Hwy at Dawson Farm Rd	10/25/2005	610	736	1450	Germantown West
Great Seneca Hwy at Kentlands Blvd	4/23/2009	1498	1252	1450	Gaithersburg City
Great Seneca Hwy at Key West Ave	10/3/2007	1227	1114	1475	R&D Village
Great Seneca Hwy at Lakeland Blvd	1/14/2009	1425	1211	1450	Gaithersburg City
Great Seneca Hwy at Longdraft Rd	4/28/2009	1295	1477	1475	North Potomac
Great Seneca Hwy at Mateney Rd (S)	3/30/2006	1094	1368	1450	Germantown West
Great Seneca Hwy at Middlebrook Rd	3/29/2007	980	1224	1450	Germantown West
Great Seneca Hwy at Muddy Branch Rd	5/12/2009	1512	1647	1450	Gaithersburg City
Great Seneca Hwy at Queenstown La	12/14/2004	887	764	1450	Germantown West
Great Seneca Hwy at Quince Orchard Rd	4/23/2009	1440	1423	1450	Gaithersburg City
Great Seneca Hwy at Sam Eig Hwy	10/10/2007	1240	1348	1475	R&D Village
Great Seneca Hwy at Wisteria Dr	3/29/2006	637	877	1450	Germantown West
Gude Dr at Dover	3/24/2009	1245	1323	1475	Derwood
Hungerford Dr (MD 355) at Campus Dr	10/28/2004	1496	980	1500	Rockville City
Hungerford Dr (MD 355) at Manakee St	2/25/2009	1533	1052	1500	Rockville City
Hungerford Dr at Beall St	9/16/2008	1197	982	1500	Rockville City
Hungerford Dr at College Pkwy	10/27/2004	1382	958	1500	Rockville City
Hungerford Dr at Middle Ln/Park Rd	3/12/2009	1201	1199	1500	Rockville City
Hungerford Dr at Monroe Pl/Church St	10/21/2004	1217	1055	1500	Rockville City
Hungerford Dr at N Washington St	7/8/2004	1094	1290	1500	Rockville City

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Hungerford Ln (MD 355) at Gude Dr	5/6/2009	1723	1569	1500	Rockville City
Jones Bridge Rd at Manor Rd	11/19/2002	679	676	1600	Bethesda/Chevy Chase
Jones Bridge Rd at Platt Ridge Dr	11/19/2002	773	963	1600	Bethesda/Chevy Chase
Key West Ave at Broschart/Diamondback	10/3/2007	1666	1261	1475	R&D Village
Key West Ave at Darnestown Rd	9/27/2007	1085	1058	1475	North Potomac
Key West Ave at Medical Ctr/Omega Dr	10/2/2007	1313	1359	1475	R&D Village
Key West Ave at Shady Grove Rd	9/25/2007	1391	1640	1500	Rockville City
Key West Ave at W Gude Dr	9/18/2007	942	1304	1500	Rockville City
Knowles Ave at Summit Ave	10/2/2007	1167	1005	1600	Kensington/Wheaton
Layhill Rd at Belpre/Bonifant	4/21/2009	1240	1268	1500	Aspen Hill
Layhill Rd at Ednor Rd/Norwood Rd	10/17/2006	1577	1230	1475	Olney
Layhill Rd at Glenallen Ave	2/26/2008	874	898	1600	Kensington/Wheaton
Layhill Rd at Middlevale	2/21/2008	999	793	1600	Kensington/Wheaton
Laytonville Rd at Brink/Sundown	11/2/2006	1422	1433	1400	Goshen
Little Falls Pkwy at Dorset Ave	4/12/2007	690	692	1600	Bethesda/Chevy Chase
Little Falls Pkwy at Hillandale	4/18/2007	695	654	1600	Bethesda/Chevy Chase
Massachusetts Ave at Biltmore	3/3/2005	1203	895	1600	Bethesda/Chevy Chase
Massachusetts Ave at Cromwell	3/2/2005	712	564	1600	Bethesda/Chevy Chase
Massachusetts Ave at Little Falls Pkwy	4/18/2007	1147	994	1600	Bethesda/Chevy Chase
Massachusetts Ave at Westbard Ave	3/4/2004	940	878	1600	Bethesda/Chevy Chase
MD 108 at Brooke/Meeting House Rd	10/19/2006	1188	1192	1475	Olney
MD 108 at Norwood Rd	9/19/2006	1234	1245	1475	Olney
MD 108 at Spartan	3/8/2007	965	1094	1475	Olney
MD 108 at Woodfield Rd (MD 124)	5/11/2006	599	1113	1450	Damascus
MD 118 at Aircraft Dr	1/11/2007	880	1080	1450	Germantown Town Center
MD 118 at Crystal Rock Dr	5/16/2006	869	1232	1450	Germantown Town Center
MD 124 at Airpark Rd	2/19/2009	827	726	1450	Montgomery Village/Airpark
MD 124 at Girard	5/12/2004	573	521	1450	Gaithersburg City
MD 124 at I-270 SB Ramp	9/13/2001	808	975	1450	Gaithersburg City
MD 124 at Twinlakes	5/21/2003	765	1363	1450	Gaithersburg City
MD 355 at Cordell	5/17/2005	702	740	1800	Bethesda CBD
MD 355 at Edmondston Dr	3/12/2008	1810	1651	1500	Rockville City
MD 355 at Elm/Waverly	6/10/2008	752	888	1800	Bethesda CBD
MD 355 at Frederick Ave	10/26/2004	1035	1063	1500	Rockville City
MD 355 at Halpine	11/1/2005	1103	1277	1500	Rockville City
MD 355 at Indianola/Watkins Pond	2/11/2009	1040	996	1500	Rockville City
MD 355 at Middlebrook (N)	4/1/2009	1040	1334	1450	Germantown East
MD 355 at Professional	10/20/2004	1232	1184	1450	Gaithersburg City

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MD 355 at S_ Westland	4/7/2005	1006	1147	1475	Derwood
MD 355 at Summit Ave	3/9/2004	1194	1246	1450	Gaithersburg City
MD 355 at Tuckerman (S)	4/27/2005	943	894	1800	Grosvenor
MD 355 at Watkins Mill Rd	4/2/2009	960	1189	1450	Gaithersburg City
MD 355 at Willard/Wisconsin Circle	3/21/2007	890	834	1800	Friendship Heights
MD 355 at Woodmont Ave	10/2/2008	1218	987	1600	Bethesda/Chevy Chase
Md.28-Hurley	9/22/2004	830	998	1500	Rockville City
Md.28-Research	11/1/2005	941	1307	1500	Rockville City
Md28-I270-Nelson	11/3/2005	1184	1361	1500	Rockville City
Midcounty Hwy at Goshen Rd	4/2/2009	1176	1425	1450	Montgomery Village/Airpark
Midcounty Hwy at Montgomery Village Ave	3/26/2009	915	1148	1450	Montgomery Village/Airpark
Midcounty Hwy at Washington Grove Ln	2/19/2009	1333	1017	1475	Derwood
Midcounty Hwy at Woodfield/Saybrooke	4/14/2009	976	1090	1450	Gaithersburg City
Middlebrook Rd at Century Blvd	5/5/2009	679	961	1450	Germantown Town Center
Middlebrook Rd at Crystal Rock Dr	3/29/2007	889	890	1450	Germantown Town Center
Middlebrook Rd at Observation Dr	3/25/2009	812	894	1450	Germantown East
Middlebrook Rd at Waring Station Dr	10/28/2004	959	1081	1450	Germantown West
Mont. Village Ave at Chris/Lost Knife	5/9/2006	1037	1454	1450	Montgomery Village/Airpark
Montgomery Ave at Waverly St	3/28/2007	697	1089	1800	Bethesda CBD
Montgomery Ln at East Ln	1/31/2007	446	649	1800	Bethesda CBD
Montgomery Ln at Pearl St	4/19/2006	755	1177	1800	Bethesda CBD
Montgomery Village Ave at Apple Ridge Rd	1/16/2002	752	784	1450	Montgomery Village/Airpark
Montgomery Village Ave at Centerway Rd	9/18/2002	1012	1171	1450	Montgomery Village/Airpark
Montgomery Village Ave at Russell Ave	4/22/2009	816	1218	1450	Gaithersburg City
Montgomery Village Ave at Stedwick	10/4/2007	1633	1170	1450	Montgomery Village/Airpark
Montrose Rd at E Jefferson St	6/5/2007	1278	1495	1550	North Bethesda
Montrose Rd at Falls Rd	11/8/2006	678	942	1475	Potomac
Montrose Rd at Farm Haven Dr	3/20/2007	1493	1409	1550	North Bethesda
Montrose Rd at Hitching Post/Monroe	3/20/2007	1354	945	1550	North Bethesda
Montrose Rd at Old Old Georgetown Rd	3/9/2005	713	926	1550	North Bethesda
Montrose Rd at Seven Locks Rd	11/8/2006	999	860	1500	North Potomac
Montrose Rd at Tildenwood Ln	3/7/2007	1307	1308	1550	North Bethesda
Montrose Rd at Tower Oaks Blvd	11/14/2006	1663	1232	1550	North Bethesda
Montrose Rd at Whites Ford Rd	3/15/2007	813	593	1475	Potomac
Muddy Branch Rd at Diamondback Dr	10/9/2007	1563	1195	1450	Gaithersburg City

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Muddy Branch Rd at East Dr	10/10/2007	863	887	1450	Gaithersburg City
Muddy Branch Rd at Festival Shop Ctr Ent	10/10/2007	830	966	1450	Gaithersburg City
Muddy Branch Rd at West Side Dr	10/10/2007	945	817	1450	Gaithersburg City
Muncaster Mill Rd at Avery Rd	4/1/2009	1087	1120	1400	Rock Creek
Muncaster Mill Rd at Bowie Mill Rd	5/7/2009	1328	1203	1400	Rock Creek
Muncaster Mill Rd at Needwood Rd	2/12/2009	1341	1090	1400	Rock Creek
Muncaster Rd at MD 108	3/11/2009	1579	1164	1400	Patuxent
MVA at Lakeforest Mall	11/10/2004	876	999	1450	Montgomery Village/Airpark
New Hampshire Ave at Adelphi/Dilston	9/10/2008	1250	1373	1600	Silver Spring/Takoma Park
New Hampshire Ave at Bonifant/Good Hope	1/29/2009	1237	1046	1475	Cloverly
New Hampshire Ave at Briggs Chaney Rd	4/3/2008	784	828	1475	Cloverly
New Hampshire Ave at Cape May Rd	2/1/2005	1459	1207	1500	Fairland/White Oak
New Hampshire Ave at Chalmers	5/24/2006	1097	1042	1500	Fairland/White Oak
New Hampshire Ave at Columbia Pk Ramps	10/23/2001	1121	1452	1500	Fairland/White Oak
New Hampshire Ave at Ednor Rd	1/30/2007	1160	1213	1475	Cloverly
New Hampshire Ave at I-495/Elton Rd	3/29/2007	1117	1255	1500	Fairland/White Oak
New Hampshire Ave at Jackson	9/16/2008	1400	1494	1500	Fairland/White Oak
New Hampshire Ave at Lockwood Dr	6/3/2008	1151	1027	1500	Fairland/White Oak
New Hampshire Ave at MD 108	11/30/2006	1226	1223	1400	Patuxent
New Hampshire Ave at Midland Dr	2/3/2005	991	1060	1500	Fairland/White Oak
New Hampshire Ave at Northwest/Michelson	5/31/2006	1045	927	1500	Fairland/White Oak
New Hampshire Ave at Norwood Rd	1/29/2008	1032	1102	1475	Cloverly
New Hampshire Ave at Oakview	1/24/2006	1591	1492	1600	Silver Spring/Takoma Park
New Hampshire Ave at Powder Mill Rd	3/28/2007	1331	1379	1500	Fairland/White Oak
New Hampshire Ave at Schindler/Mahan	5/24/2006	1083	861	1500	Fairland/White Oak
New Hampshire Ave at Spencerville Rd	4/3/2008	979	1053	1475	Cloverly
New Hampshire Ave at Wolf	4/2/2008	807	1315	1500	Fairland/White Oak
Nicholson Ln at Huff Ct	5/11/2006	618	854	1800	White Flint
Nicholson Ln at Nebel St	9/12/2006	808	1051	1550	North Bethesda
Nicholson Ln at White Flint	5/11/2006	604	1155	1800	White Flint
Nicholson Ln at Woodglen	5/18/2005	554	735	1800	White Flint
Norbeck Rd (MD 28) at Avery Rd	1/8/2008	1511	1422	1500	Rockville City
Norbeck Rd at Baltimore	4/14/2009	1267	1381	1500	Aspen Hill
Norbeck Rd at Bauer Dr	1/21/2009	1571	1524	1500	Aspen Hill
Norbeck Rd at Bel Pre Rd	1/8/2008	1464	1246	1500	Aspen Hill
Norbeck Rd at E Gude Dr	3/25/2009	1278	1245	1500	Rockville City

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Norbeck Rd at Layhill Rd	6/8/2006	941	861	1475	Cloverly
Norbeck Rd at Muncaster Mill Rd	1/29/2009	1609	1238	1500	Aspen Hill
Norbeck Rd at Norbeck Blvd	10/16/2008	1369	1518	1500	Aspen Hill
Norbeck Rd at Norwood Rd	2/6/2007	1122	910	1475	Cloverly
Norbeck Rd at Owens Glen/Manor Care	10/9/2007	1229	950	1475	North Potomac
Norbeck Rd at Wintergate Dr	10/16/2008	1161	1200	1500	Aspen Hill
Norfolk Ave at St Elmo Ave	1/31/2008	567	782	1800	Bethesda CBD
Odenhal Ave at Lost Knife Rd	5/9/2006	425	874	1450	Gaithersburg City
Odenhal at Russell Ave	5/9/2006	412	744	1450	Gaithersburg City
Old Columbia Pk at Greencastle Rd	11/14/2006	757	623	1500	Fairland/White Oak
Old Columbia Pk at Spencerville Rd	12/3/2008	1009	1212	1400	Patuxent
Old Georgetown Rd at Auburn St	10/4/2006	895	1138	1800	Bethesda CBD
Old Georgetown Rd at Battery Ln	10/2/2008	1010	1191	1800	Bethesda CBD
Old Georgetown Rd at Beech St	5/5/2007	1373	1304	1600	Bethesda/Chevy Chase
Old Georgetown Rd at Cheshire Ln	3/1/2006	1073	1153	1550	North Bethesda
Old Georgetown Rd at Commerce	1/31/2007	558	773	1800	Bethesda CBD
Old Georgetown Rd at Democracy Blvd	5/25/2006	1352	1308	1550	North Bethesda
Old Georgetown Rd at Edson/Poindexter	3/10/2005	976	1181	1550	North Bethesda
Old Georgetown Rd at Executive Blvd	5/13/2008	1455	1335	1800	White Flint
Old Georgetown Rd at Fairmont Ave	1/31/2008	1424	1189	1800	Bethesda CBD
Old Georgetown Rd at Huntington Pkwy	2/10/2005	1289	953	1600	Bethesda/Chevy Chase
Old Georgetown Rd at I-270 (N) Ramp	9/20/2006	1165	933	1550	North Bethesda
Old Georgetown Rd at Lone Oak	3/9/2006	1148	1002	1550	North Bethesda
Old Georgetown Rd at Nicholson/Tilden	3/10/2005	1191	1222	1800	White Flint
Old Georgetown Rd at Rock Spring Dr	5/26/2006	1133	1275	1550	North Bethesda
Old Georgetown Rd at South/Greentree	3/30/2006	1137	1251	1600	Bethesda/Chevy Chase
Old Georgetown Rd at Tuckerman Ln	1/22/2009	1640	1484	1550	North Bethesda
Old Georgetown Rd at W Cedar Ln	5/5/2007	1249	1510	1600	Bethesda/Chevy Chase
Old Georgetown Rd at Wilson/Arlington	1/31/2008	1125	1141	1800	Bethesda CBD
Old Georgetown Rd at Woodmont Ave	4/10/2007	929	901	1800	Bethesda CBD
Old G'town Rd (MD 187) at Mid Pike Plz	3/9/2005	633	625	1800	White Flint
Old Georgetown Rd at I-270 (S)	5/25/2005	1214	1163	1550	North Bethesda
Olney-Laytons Rd at Queen Elizabeth Dr	3/14/2007	828	980	1475	Olney
Olney-Laytonsville Rd at Olney Mill Rd	6/3/2004	1017	972	1475	Olney
Olney-Sandy Spg Rd at Old Baltimore Rd	3/1/2007	1366	1021	1475	Olney
Olney-Sandy Sprg Rd at Prince Philip D	3/6/2007	1031	1072	1475	Olney
Olney-Sandy Spring Rd at Doctor Bird Rd	10/18/2006	1025	1188	1475	Olney
Olney-Sandy Spring Rd at Olney Vil. Mart	1/12/2005	995	975	1475	Olney

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INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Olney-Sandy Spring Rd at Sherwood HS	2/12/2002	1205	1163	1400	Patuxent
Parklawn Dr at Boiling Brook Pkwy	9/12/2006	1304	1554	1550	North Bethesda
Parklawn Dr at Braxfield	3/1/2001	784	603	1550	North Bethesda
Parklawn Dr at Twinbrook Pkwy	6/2/2005	1050	1184	1800	Twinbrook
Parklawn Dr at Wilkens (N)	6/2/2005	299	414	1800	Twinbrook
Philadelphia Ave (MD 410) at Carroll Ave	4/12/2005	900	1488	1600	Silver Spring/Takoma Park
Philadelphia Ave (MD 410) at Maple Ave	12/19/2007	611	1010	1600	Silver Spring/Takoma Park
Philadelphia Ave (MD 410) at Takoma Ave	1/26/2005	679	755	1600	Silver Spring/Takoma Park
Piney Branch Rd at Philadelphia Ave	1/21/2009	1228	1680	1600	Silver Spring/Takoma Park
Piney Branch Rd (MD 320) at Ray Dr/TPMS	12/19/2007	927	550	1600	Silver Spring/Takoma Park
Piney Branch Rd at Arliss St	9/20/2005	866	818	1600	Silver Spring/Takoma Park
Piney Branch Rd at Barron St	6/24/2003	1048	1044	1600	Silver Spring/Takoma Park
Piney Branch Rd at Carroll Ave	2/17/2009	740	849	1600	Silver Spring/Takoma Park
Piney Branch Rd at Dale Dr/Devon Rd	1/24/2006	1186	849	1600	Silver Spring/Takoma Park
Piney Branch Rd at Flower Ave	9/15/2005	855	812	1600	Silver Spring/Takoma Park
Piney Branch Rd at Sligo Ave/Hilltop	1/8/2008	1262	1147	1600	Silver Spring/Takoma Park
Pleasant/Shady-Grove/I370	3/5/2003	1277	1017	1800	Shady Grove
Plyers Mill Rd at Metropolitan Ave	9/21/2005	687	866	1600	Kensington/Wheaton
Quince Orchard Rd at Bank/North	2/5/2003	758	1056	1450	Gaithersburg City
Quince Orchard Rd at Longdraft Rd	9/20/2007	669	1017	1475	North Potomac
Quince Orchard Rd at Sioux	10/8/2007	866	1092	1450	Gaithersburg City
Randolph Rd at Colie Dr	5/6/2004	919	949	1600	Kensington/Wheaton
Randolph Rd at Gaynor/Rockinghorse	2/4/2009	1063	1499	1550	North Bethesda
Randolph Rd at Glenallen Ave	2/26/2008	1421	1239	1600	Kensington/Wheaton
Randolph Rd at Glenmont Cir	2/26/2008	939	915	1800	Glenmont
Randolph Rd at Kemp Mill Rd	9/13/2005	1263	1270	1600	Kensington/Wheaton
Randolph Rd at Lauderdale	1/6/2008	1069	1227	1550	North Bethesda
Randolph Rd at Locksley	3/12/2008	1130	913	1500	Fairland/White Oak
Randolph Rd at Maple Ave	3/9/2005	861	1008	1550	North Bethesda
Randolph Rd at Nebel St	3/9/2005	757	1060	1550	North Bethesda
Randolph Rd at New Hampshire Ave	3/26/2009	1497	1834	1500	Fairland/White Oak
Randolph Rd at Parklawn Dr (W)	2/11/2009	1601	1165	1550	North Bethesda
Randolph Rd at Tivoli	9/14/2005	1040	789	1600	Kensington/Wheaton
Randolph Rd at Veirs Mill Rd	3/18/2009	1484	1423	1600	Kensington/Wheaton
Redland Rd at Crabbs Branch Way	2/25/2009	1302	1133	1800	Shady Grove
Redland Rd at Needwood Rd	3/12/2009	1366	983	1475	Derwood
Redland Rd at Somerville	2/25/2009	735	1092	1800	Shady Grove
Ridge Rd at Bethesda Church Rd	10/19/2004	874	1183	1450	Damascus

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INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Ridge Rd at Brink Rd	3/28/2007	1007	1073	1450	Germantown East
Ridge Rd at High Corner St/Shop Ctr	5/23/2007	958	1021	1450	Damascus
Ridge Rd at Kings Valley Rd	6/6/2007	1039	1221	1450	Clarksburg
Ridge Rd at Lewis Dr/Locust Dr	5/16/2006	1437	1000	1450	Damascus
Ridge Rd at Main St (MD 108)	4/22/2009	836	953	1450	Damascus
Ridge Rd at Observation Dr	3/29/2007	942	1065	1450	Germantown East
Ridge Road at Skylark Rd	4/16/2009	1629	1314	1350	Goshen
Ridge Road at Sweepstakes/Marlboro	4/28/2009	1094	1317	1450	Damascus
River Rd at Beech Tree/Nevis Rd	6/13/2007	1206	1195	1600	Bethesda/Chevy Chase
River Rd at Bradley Blvd	1/24/2008	1562	1140	1475	Potomac
River Rd at Brookside/Ridgefield	3/26/2009	1184	1133	1600	Bethesda/Chevy Chase
River Rd at Congressional/Norwood	6/7/2006	1220	1021	1475	Potomac
River Rd at Counselman	10/3/2002	1417	926	1475	Potomac
River Rd at Falls Rd	3/31/2009	1399	1657	1475	Potomac
River Rd at Goldsboro Rd	4/15/2009	1135	1203	1600	Bethesda/Chevy Chase
River Rd at I-495 (E)	3/10/2009	1579	957	1600	Bethesda/Chevy Chase
River Rd at Little Falls Pkwy	6/6/2007	1494	1501	1600	Bethesda/Chevy Chase
River Rd at Piney Meetinghouse Rd	11/14/2006	1384	1049	1475	Potomac
River Rd at Royal Dominion/Holton Arms	2/24/2004	1523	1325	1600	Bethesda/Chevy Chase
River Rd at Seven Locks Rd	6/7/2006	1356	1111	1475	Potomac
River Rd at Springfield-Kc	9/19/2006	1169	1026	1600	Bethesda/Chevy Chase
River Rd at Whittier/Winston	6/7/2007	1370	1285	1600	Bethesda/Chevy Chase
River Rd at Willard Ln/Greenway	6/8/2004	1003	1191	1600	Bethesda/Chevy Chase
River Rd at Wilson Ln	4/23/2009	1524	1563	1600	Bethesda/Chevy Chase
Rock Spring Dr at Rockledge Dr	3/14/2006	772	819	1550	North Bethesda
Rockledge Blvd at I-270 Off Ramp	3/15/2006	796	651	1550	North Bethesda
Rockledge Blvd at Rockledge/Rock Forest	3/15/2006	772	790	1550	North Bethesda
Rockville Pike (MD 355) at Mid Pike Plz	3/8/2005	992	1335	1800	White Flint
Rockville Pike (MD 355) at Pooks Hill Rd	2/24/2009	1188	1248	1600	Bethesda/Chevy Chase
Rockville Pike at Bou Ave	11/1/2005	1123	1288	1550	North Bethesda
Rockville Pike at Congressional Ln	1/14/2009	1001	1282	1500	Rockville City
Rockville Pike at E Jefferson/Veirs Mill	5/5/2009	1362	1359	1500	Rockville City
Rockville Pike at East-West/Old G'town	2/6/2007	1454	1745	1800	Bethesda CBD
Rockville Pike at Edson/White Flint Mall	3/6/2008	1029	1164	1550	North Bethesda
Rockville Pike at Fed Plz / Pike Ctr	11/2/2005	852	1064	1550	North Bethesda
Rockville Pike at First St/Wootton Pkwy	4/14/2009	1265	1398	1500	Rockville City
Rockville Pike at Hubbard	11/2/2005	1167	1478	1550	North Bethesda
Rockville Pike at Jones Bridge/Center	5/6/2009	1550	1714	1600	Bethesda/Chevy Chase

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INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Rockville Pike at Marinelli Rd	3/8/2005	1067	998	1800	White Flint
Rockville Pike at Montrose/Randolph	3/8/2005	1501	1452	1550	North Bethesda
Rockville Pike at Nicholson Ln	5/10/2006	1236	1478	1800	White Flint
Rockville Pike at Old Georgetown Rd	9/20/2006	1152	1211	1800	White Flint
Rockville Pike at South/Wood/NNMC	3/12/2008	1198	1134	1600	Bethesda/Chevy Chase
Rockville Pike at Strathmore Ave	4/5/2005	1235	1493	1550	North Bethesda
Rockville Pike at Tuckerman Ln (N)	5/10/2005	1249	1586	1800	Grosvenor
Rockville Pike at W Cedar Ln	1/7/2008	1639	1883	1600	Bethesda/Chevy Chase
Rockville Pike at Wilson/NIH	5/7/2009	891	1122	1600	Bethesda/Chevy Chase
Rockville Pike at Woodmont CC/Best Buy	6/8/2004	1229	1155	1500	Rockville City
Rockville Pk at Grosvenor/Beach	5/18/2004	1244	977	1800	Grosvenor
Rockville Pk at Security Ln	8/14/2008	1295	1037	1550	North Bethesda
Rockville Pk at Templeton Pl	6/8/2004	1272	1214	1500	Rockville City
Rockville-Pk/Twinbrook/Rollins	2/24/2009	1043	1277	1500	Rockville City
Russell Ave at Christopher St	5/6/2009	382	750	1450	Gaithersburg City
Sam Eig Hwy at Diamondback Dr	10/10/2007	933	1217	1475	R&D Village
Sam Eig Hwy at Fields Rd	10/11/2007	1456	1297	1475	R&D Village
Sandy Spring Rd at Mcknew	2/11/2009	1462	1489	1400	Patuxent
Second St at Fenwick Ln	5/19/2005	271	447	1800	Silver Spring CBD
Seminary Rd at 2nd Ave/Linden Ln	3/25/2004	741	1054	1600	Silver Spring/Takoma Park
Seven Locks Rd and Wootton Pkwy	11/14/2006	1144	1116	1500	Rockville City
Seven Locks Rd at Bells Mill Rd	10/12/2005	1122	911	1475	Potomac
Seven Locks Rd at Bradley Blvd	3/17/2009	1192	1460	1475	Potomac
Seven Locks Rd at Gainsborough	3/13/2007	1350	1290	1475	Potomac
Seven Locks Rd at Tuckerman Ln	11/9/2006	1499	1487	1475	Potomac
Shady Grove Rd and Crabbs Branch Way	3/8/2005	1203	1115	1800	Shady Grove
Shady Grove Rd at Corporate Dr	2/19/2009	1388	1430	1475	R&D Village
Shady Grove Rd at Epsilon/Tupelo	2/11/2009	1704	1403	1475	Derwood
Shady Grove Rd at Gaither Rd	4/16/2009	1033	1468	1500	Rockville City
Shady Grove Rd at I-270 Ramp NB/Redland	12/20/2005	945	687	1500	Rockville City
Shady Grove Rd at I-270 Ramp SB/Fields	12/8/2005	864	925	1500	Rockville City
Shady Grove Rd at Medical Center Dr	9/26/2007	867	1092	1500	Rockville City
Shady Grove Rd at Metro (N)	4/5/2005	1276	1298	1800	Shady Grove
Shady Grove Rd at Metro (S)	4/5/2005	1467	1375	1800	Shady Grove
Shady Grove Rd at Midcounty Hwy	3/5/2008	1894	1309	1475	Derwood
Shady Grove Rd at Muncaster Mill/Airpark	4/29/2009	1208	1402	1475	Derwood
Shady Grove Rd at Oakmont	4/5/2005	1345	992	1800	Shady Grove
Shady Grove Rd at Research Blvd	9/25/2007	1074	1089	1475	R&D Village

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INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Shady Grove Rd at Traville Gateway Dr	2/7/2008	431	585	1475	R&D Village
Sligo Creek Pkwy at Wayne Ave	4/1/2009	1138	1200	1600	Silver Spring/Takoma Park
Snouffer School Rd at Centerway Rd	2/26/2009	1342	921	1450	Montgomery Village/Airpark
Spring St at 2nd Ave	12/5/2006	777	1270	1800	Silver Spring CBD
Spring St at Cameron St	9/20/2006	638	1074	1800	Silver Spring CBD
Spring St at Cedar/Ellsworth	9/13/2006	278	454	1800	Silver Spring CBD
Strathmore Ave at Kenilworth Ave	11/16/2006	823	854	1550	North Bethesda
Tuckerman Ln at Gainsborough Rd	4/27/2004	996	964	1475	Potomac
Tuckerman Ln at Westlake Terr	5/17/2005	507	1021	1475	Potomac
Twinbrook Pkwy at Ardennes Ave	9/11/2003	959	762	1800	Twinbrook
Twinbrook Pkwy at Chapman Ave	11/2/2005	785	1101	1500	Rockville City
Twinbrook Pkwy at Fishers Ln	6/9/2004	701	1048	1800	Twinbrook
University at Caddington/Gable	11/17/2005	803	876	1600	Kensington/Wheaton
University Blv at Newport Mill/Lexington	10/18/2005	715	774	1600	Kensington/Wheaton
University Blvd (MD 193) at Reedie Dr	11/15/2005	531	584	1800	Wheaton CBD
University Blvd at Amherst Ave	11/28/2007	846	1060	1800	Wheaton CBD
University Blvd at Arcola Ave	11/22/2005	1037	1155	1600	Kensington/Wheaton
University Blvd at Buckingham/Wayne	12/13/2005	697	790	1600	Silver Spring/Takoma Park
University Blvd at Carroll Ave	10/20/2005	1256	1159	1600	Silver Spring/Takoma Park
University Blvd at Dennis Ave	12/8/2005	841	978	1600	Kensington/Wheaton
University Blvd at East Ave	4/26/2005	583	707	1800	Wheaton CBD
University Blvd at Franklin Ave	1/7/2009	1234	1426	1600	Silver Spring/Takoma Park
University Blvd at Grandview Ave	11/28/2007	799	1000	1800	Wheaton CBD
University Blvd at Inwood	11/23/2004	589	761	1600	Kensington/Wheaton
University Blvd at Lexington	10/5/2005	777	902	1600	Kensington/Wheaton
University Blvd at Metro/Valley View Ave	9/16/2008	377	669	1800	Wheaton CBD
University Blvd at Midvale	6/4/2003	387	421	1800	Wheaton CBD
University Blvd at Piney Branch Rd	1/22/2009	1520	1429	1600	Silver Spring/Takoma Park
University Blvd at Sligo Creek Pkwy	12/13/2005	751	914	1600	Kensington/Wheaton
University Blvd at Veirs Mill Rd	2/23/2009	975	1259	1800	Wheaton CBD
University Blvd at Williamsburg	12/13/2005	801	1028	1600	Kensington/Wheaton
Veirs Mill Rd at Aspen Hill Rd	11/8/2005	1137	1102	1500	Aspen Hill
Veirs Mill Rd at Atlantic Ave	5/17/2005	1042	1424	1500	Rockville City
Veirs Mill Rd at Edmonston Dr (E)	9/15/2005	1042	1311	1500	Rockville City
Veirs Mill Rd at Edmonston Dr (W)	11/9/2005	1110	1095	1500	Rockville City
Veirs Mill Rd at Ferrara Ave	10/27/2005	886	944	1600	Kensington/Wheaton
Veirs Mill Rd at First St	3/5/2009	1252	1605	1500	Rockville City
Veirs Mill Rd at Gaynor/Parkland	11/10/2005	1191	1237	1500	Aspen Hill

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INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Veirs Mill Rd at Gridley	9/27/2005	1077	1189	1600	Kensington/Wheaton
Veirs Mill Rd at Newport	4/12/2005	1482	1339	1600	Kensington/Wheaton
Veirs Mill Rd at Reedie Dr	2/8/2006	836	959	1800	Wheaton CBD
Veirs Mill Rd at Robindale	11/9/2005	818	1055	1500	Aspen Hill
Veirs Mill Rd at Twinbrook Pkwy	2/3/2009	1771	1634	1550	North Bethesda
Veirs Mill Rd at Westfield Wheaton Drwy	6/13/2007	566	869	1800	Wheaton CBD
W Diamond Ave at Muddy Branch/Chestnut	4/14/2009	1040	1434	1450	Gaithersburg City
W Diamond Ave at Perry Pkwy	4/1/2008	1196	1410	1450	Gaithersburg City
Watkins Mill Rd at Stedwick	10/4/2007	707	972	1450	Montgomery Village/Airpark
Wayne Ave at Cedar St	4/12/2005	657	776	1800	Silver Spring CBD
Wayne Ave at Ramsey	12/6/2006	354	845	1800	Silver Spring CBD
Westlake Terr at Westlake Dr	3/7/2006	818	687	1475	Potomac
Willard Ave at Friendship Blvd	4/27/2005	723	898	1800	Friendship Heights
Wisconsin Ave at Battery/Rosedale	10/1/2008	887	888	1800	Bethesda CBD
Wisconsin Ave at Bethesda/Willow	6/11/2008	769	977	1800	Bethesda CBD
Wisconsin Ave at Bradley Blvd	11/9/2006	1503	1681	1800	Bethesda CBD
Wisconsin Ave at Cheltenham	3/28/2007	910	807	1800	Bethesda CBD
Wisconsin Ave at Dorset Ave	3/21/2007	1072	884	1600	Bethesda/Chevy Chase
Wisconsin Ave at Leland St	1/7/2009	942	982	1800	Bethesda CBD
Wisconsin Ave at Montgomery Ln	9/9/2008	1283	1468	1800	Bethesda CBD
Wisconsin Ave at Montgomery St/S Park Av	3/21/2007	743	667	1800	Friendship Heights
Woodfield Rd at Brink Rd	4/16/2009	1323	1462	1400	Goshen
Woodfield Rd at Cypress Hill Dr	9/14/2005	895	1111	1450	Montgomery Village/Airpark
Woodfield Rd at Fieldcrest/Hadley Farms	2/10/2009	1247	1529	1450	Montgomery Village/Airpark
Woodfield Rd at Lindbergh Dr	3/10/2009	490	595	1450	Montgomery Village/Airpark
Woodfield Rd at Muncaster Mill Rd	3/31/2009	1026	1241	1450	Montgomery Village/Airpark
Woodfield Rd at Sweepstakes Rd	4/2/2009	701	890	1450	Damascus
Woodmont Ave at Battery Ln	10/1/2008	1029	708	1800	Bethesda CBD
Woodmont Ave at Bethesda Ave	6/11/2008	582	877	1800	Bethesda CBD
Woodmont Ave at Cheltenham/Norfolk	1/31/2008	863	682	1800	Bethesda CBD
Woodmont Ave at Cordell Ave	10/8/2008	684	579	1800	Bethesda CBD
Woodmont Ave at Elm St	6/11/2008	483	670	1800	Bethesda CBD
Woodmont Ave at Hampden Ln	6/10/2008	537	753	1800	Bethesda CBD
Woodmont Ave at Montgomery Ln	11/9/2006	419	434	1800	Bethesda CBD

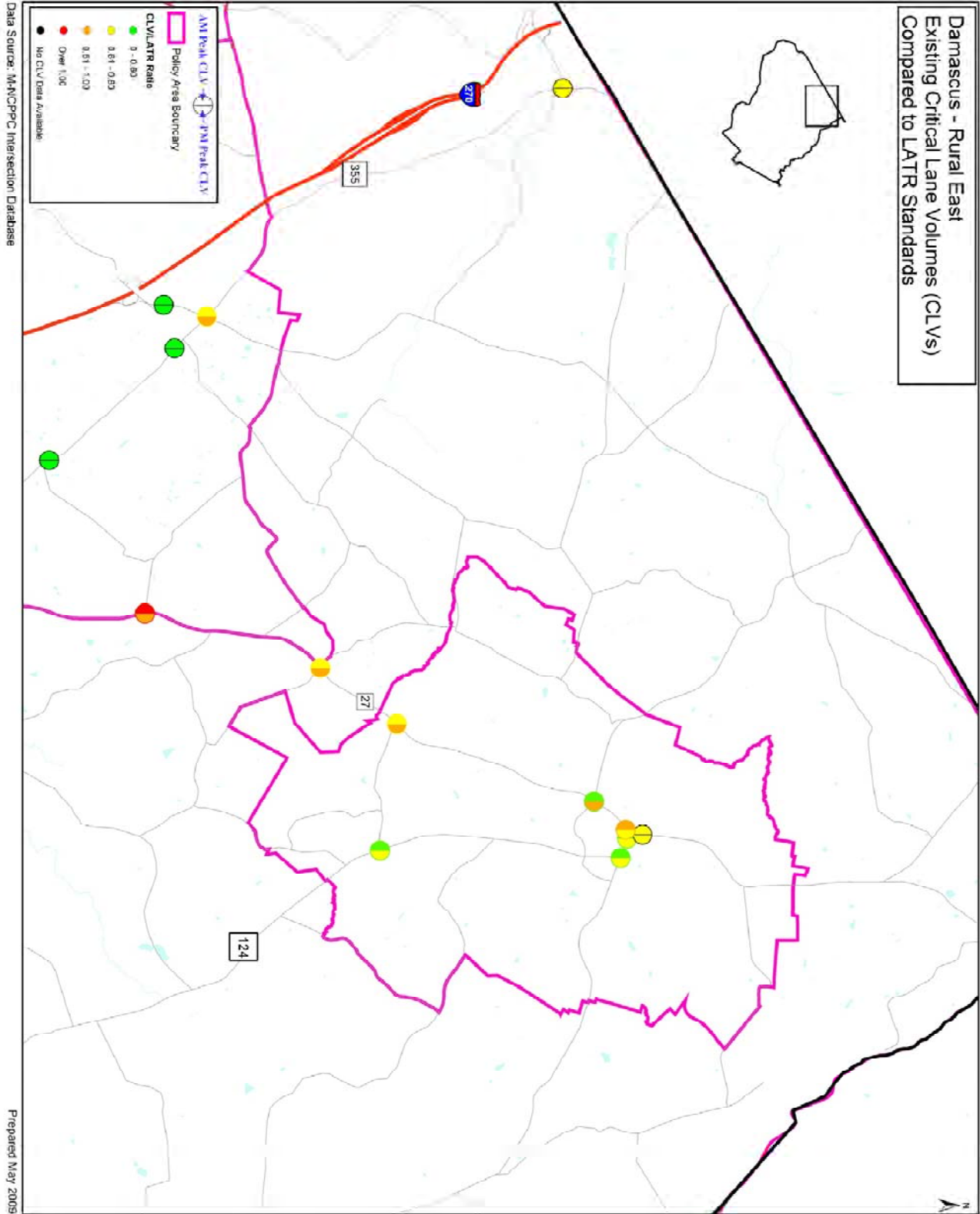
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INTERSECTION NAME	Count Date	AM CLV	PM CLV	LATR Standard	Policy Area
Woodmont Ave at North Ln	2/8/2007	498	669	1800	Bethesda CBD
Woodmont Ave at St Elmo Ave	1/31/2008	613	589	1800	Bethesda CBD

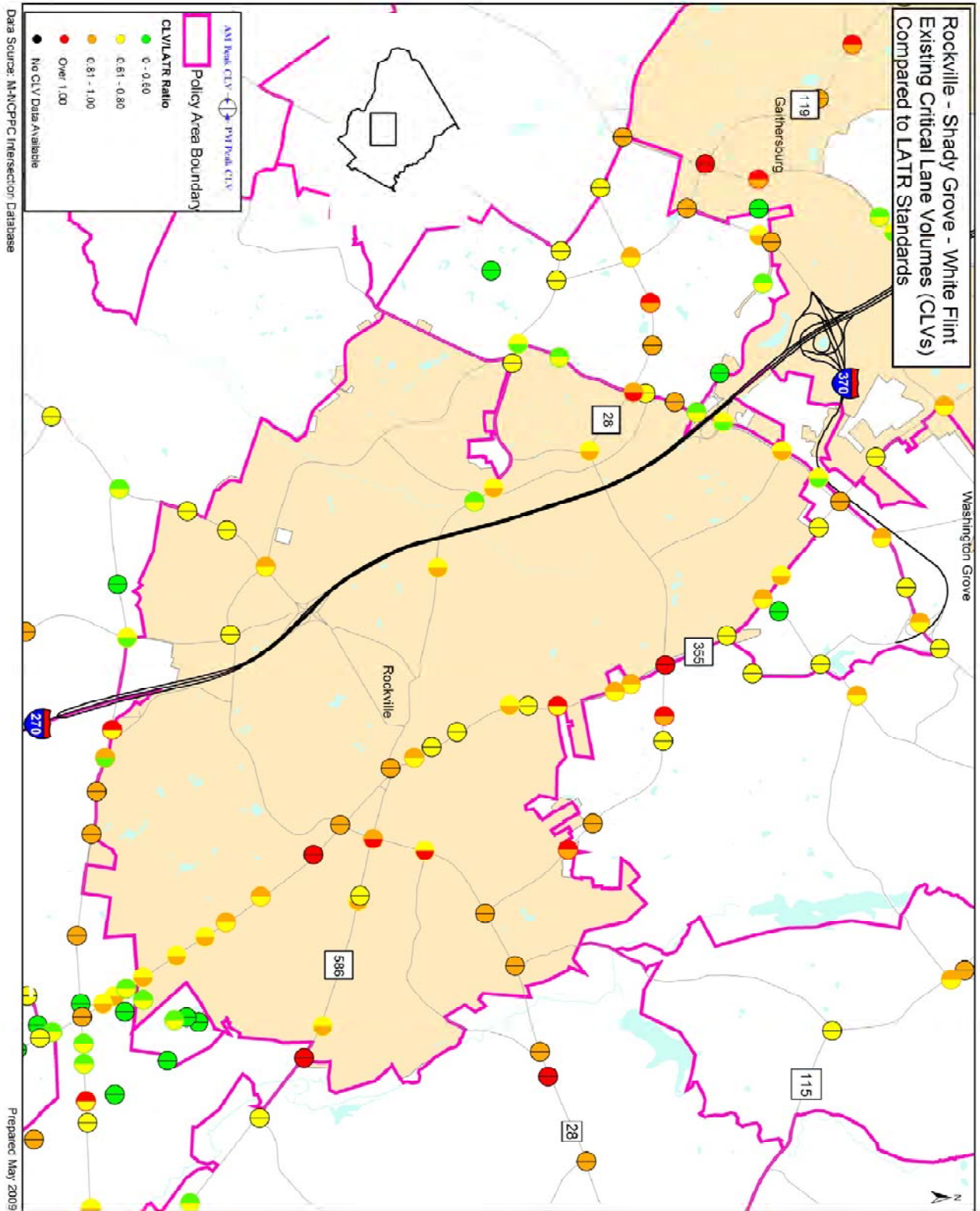
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Appendix B: – AM and PM CLV to LATR Ratios for Policy Areas



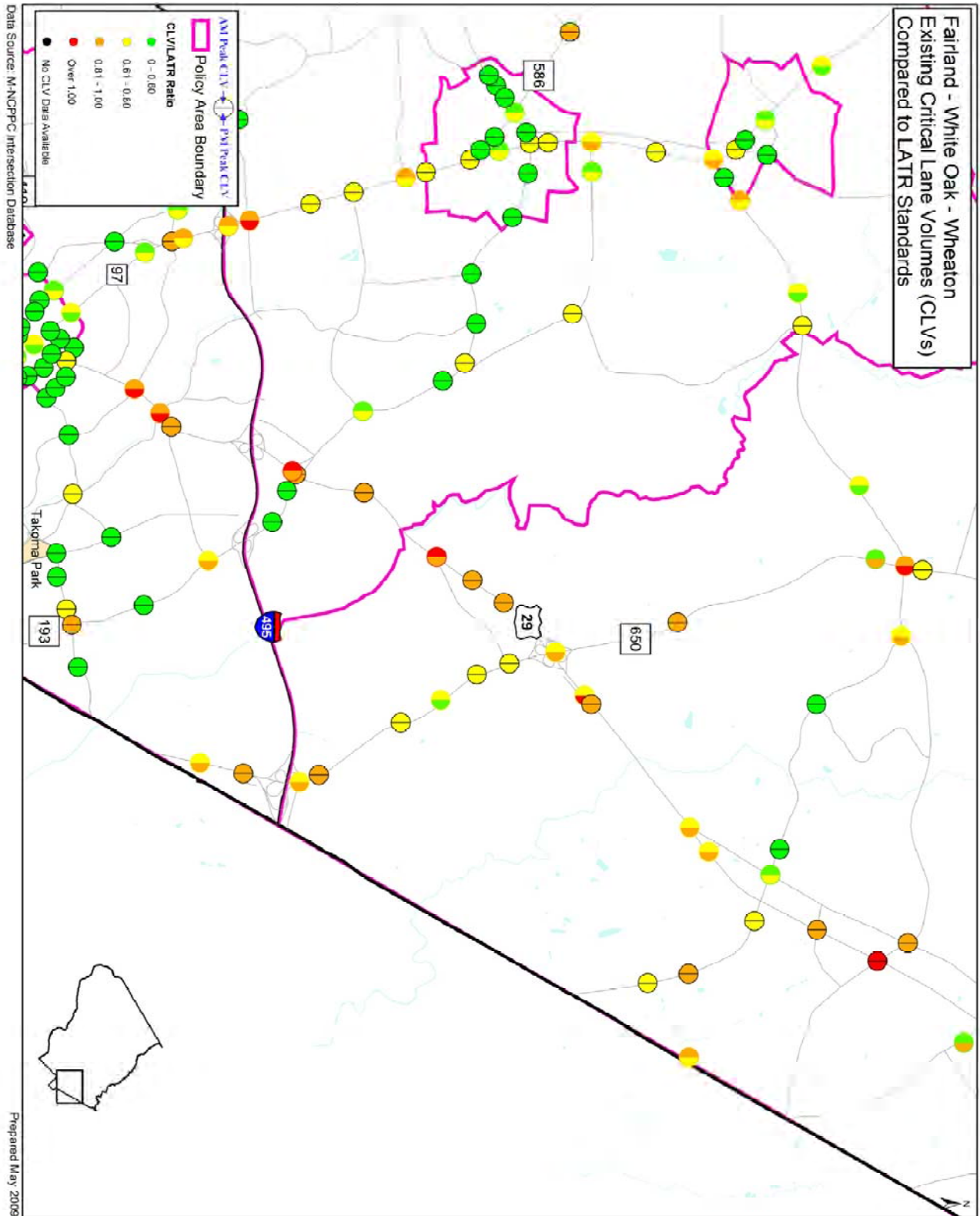
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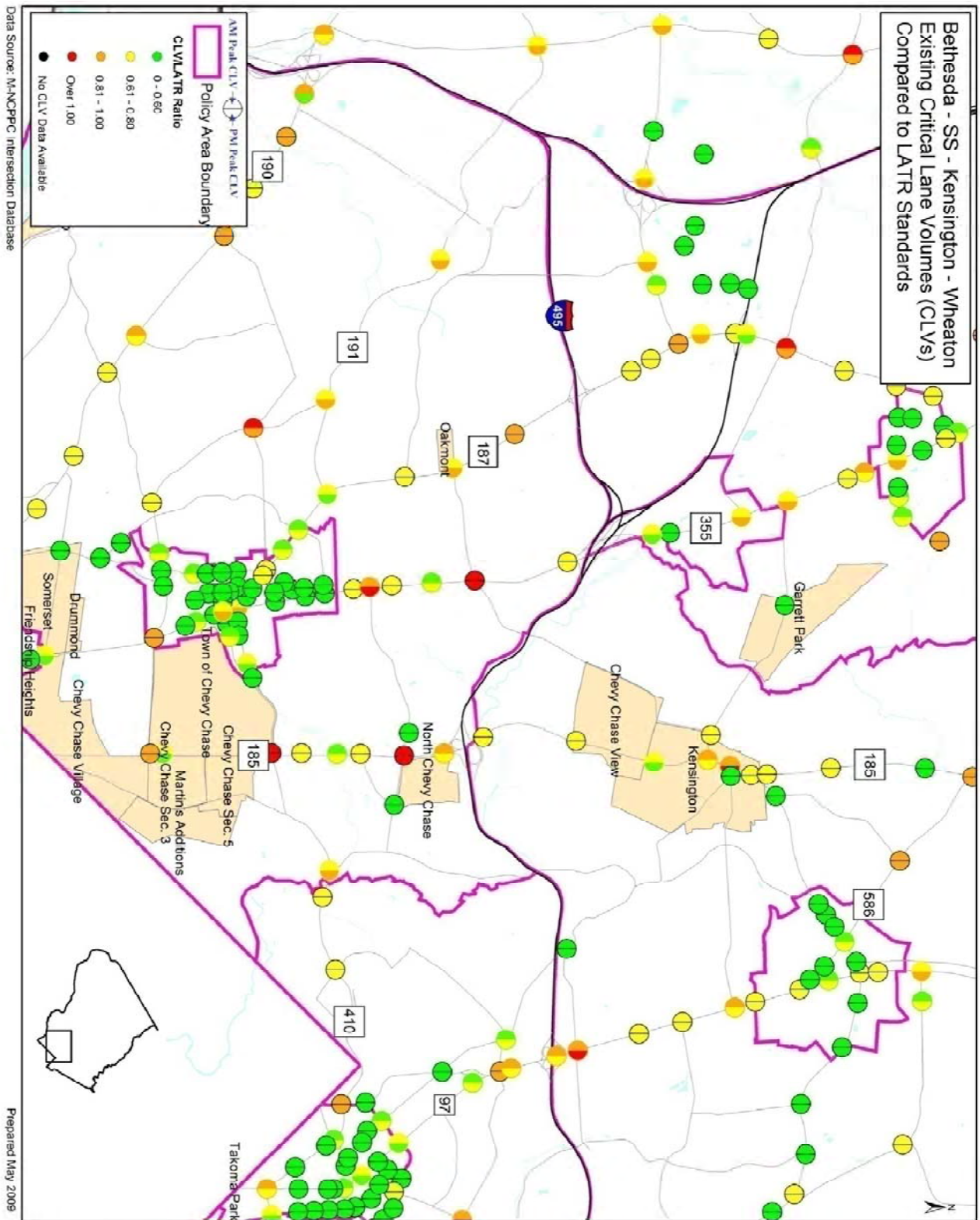
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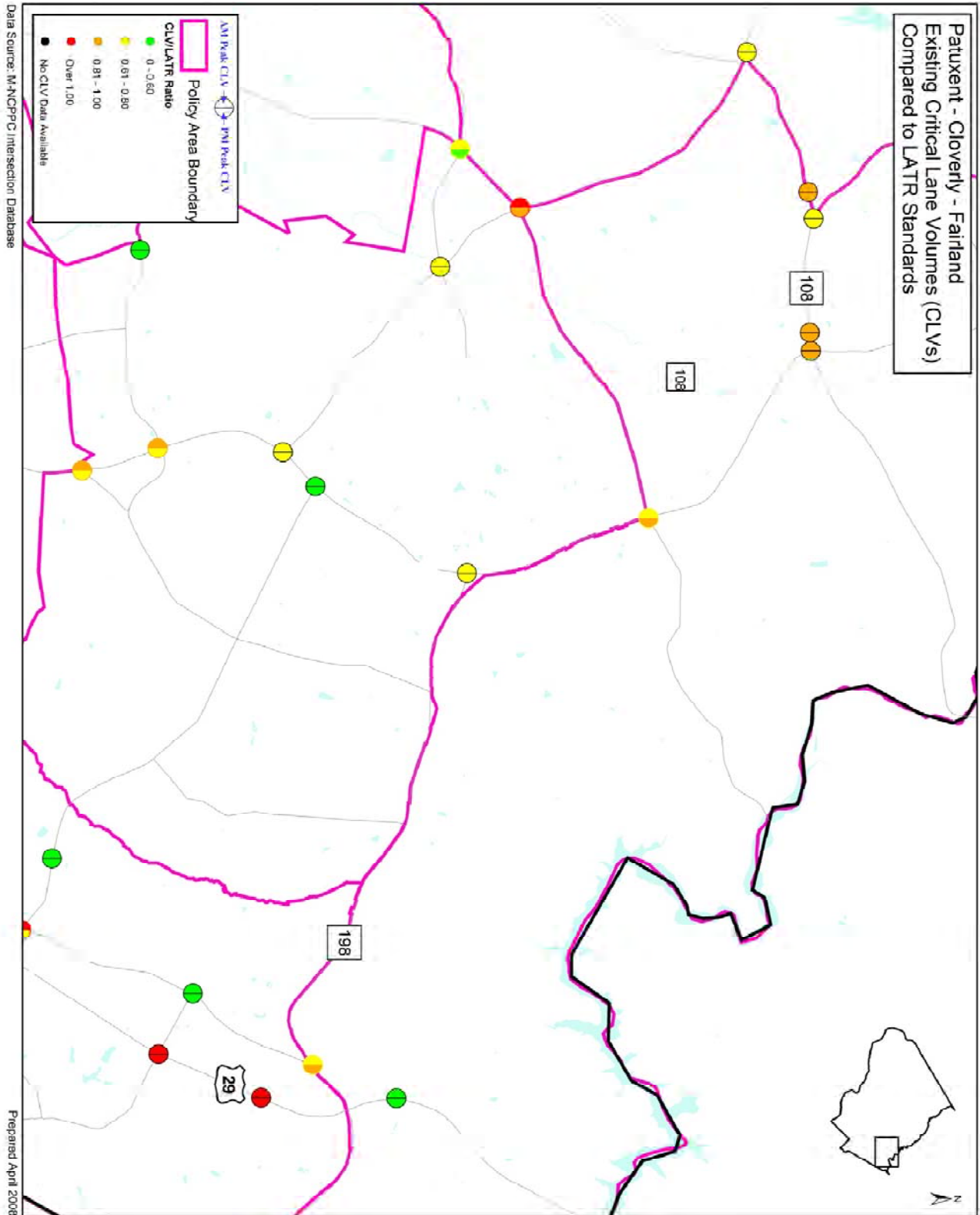
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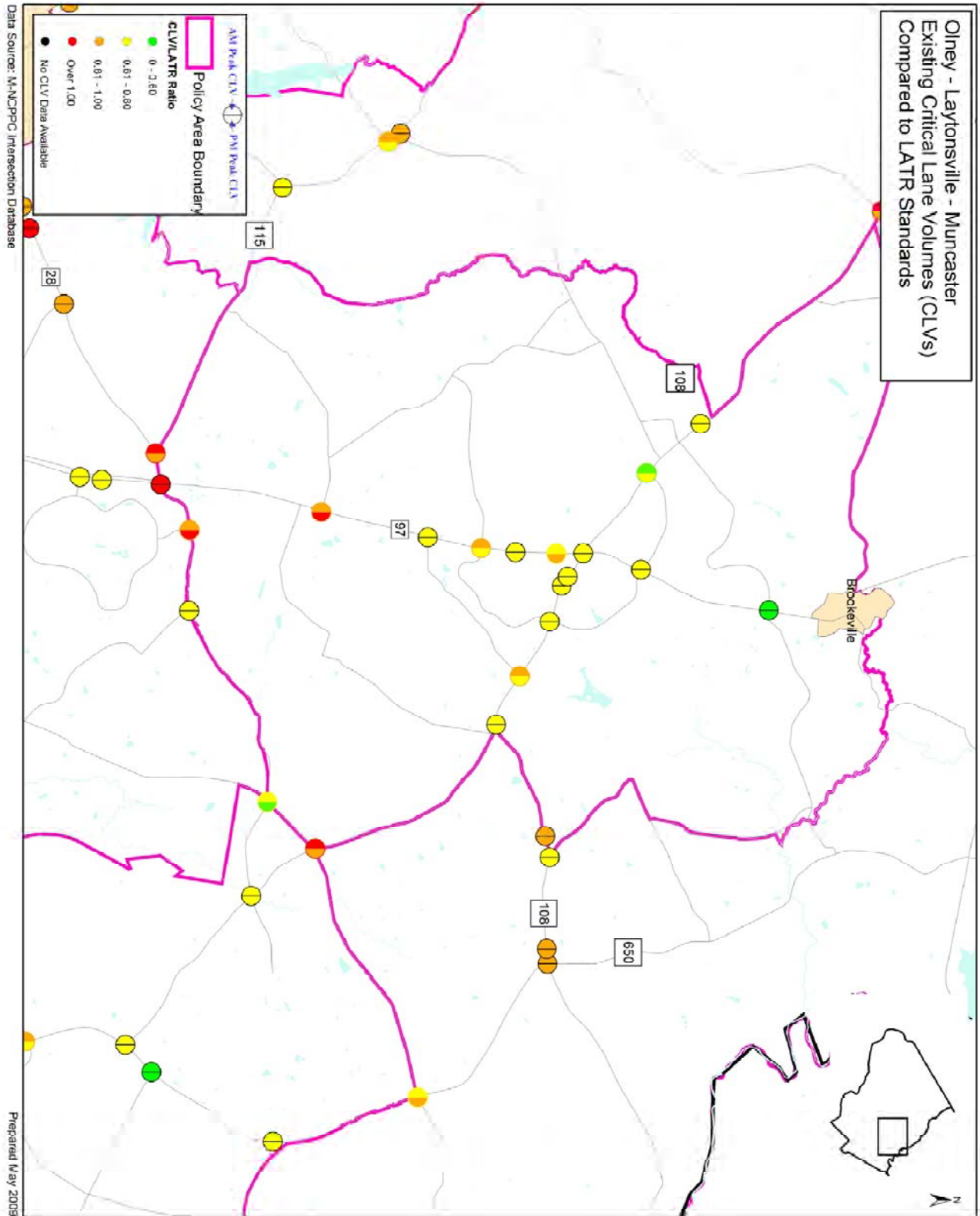
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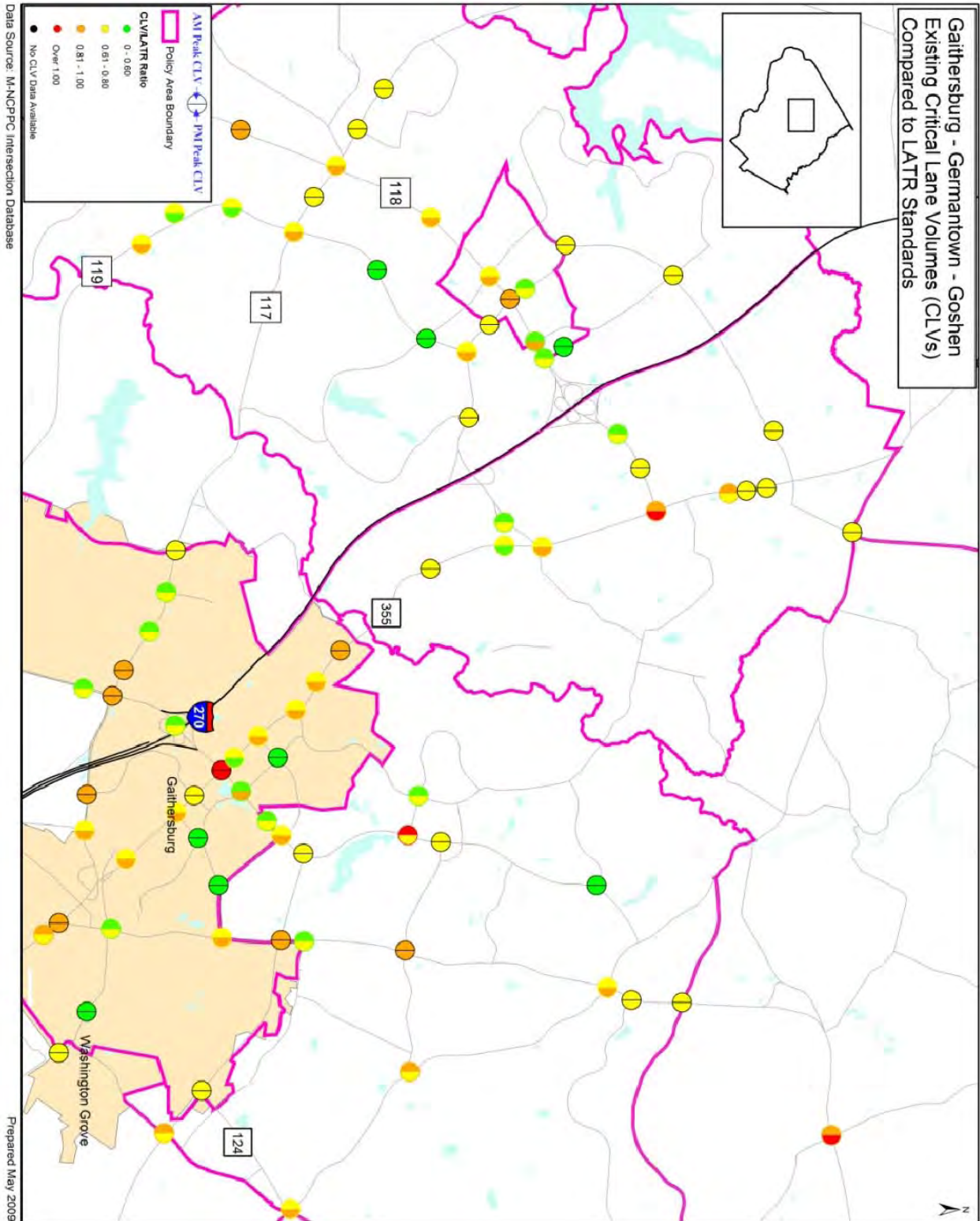
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Appendix B: – AM and PM CLV to LATR Ratios for Policy Areas



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Appendix C: – Arterial Travel and Speed Sampling Overview

Arterial Travel Time and Speed Sampling Overview

In support of the first congestion report (formerly the ADAC Report), which was assembled in 2004, the Department began collecting and analyzing travel time and speed samples obtained using probe vehicles equipped with Global Positioning System (GPS)-based tracking devices. These tracking devices differ from traditional GPS-based navigation systems in that they record the second-by-second position of the probe vehicle, calculated in the vehicle by the device by triangulating on the signal's broadcast from each satellite in a cluster of satellites. The probe vehicle drivers are instructed to travel a prescribed sequence of roadways and to travel at the speed of the flow of traffic around them, which results in a "chain" of sample data being recorded on the device. At the end of the sampling period, the recorded data is downloaded from the device. Subsequently, that data chain can be analyzed to derive information on travel time duration, spot and average speed, the specific start, end, and duration of significant traffic queues, and travel delays relative to a free-flow or speed-limit speed.

To derive such information each chain first needs to be disaggregated into a set of "trajectories", which are directional samples each of which began at a unique time-of-day and had a unique travel time duration. These trajectory samples of traffic congestion fundamentally differ from traffic turning-movement counts (used to derive CLVs), which count and record the movement of all vehicles entering and exiting a specific intersection during a fixed time period (i.e. each successive 15-minute interval during a three-hour peak period). In a 15-minute time period, a probe vehicle on an arterial roadway may travel 5 to 10 miles passing through and "sampling" traffic congestion conditions for the through movements of many intersections located along that arterial. A different probe, either on the same day or a different day, is used similarly to sample traffic conditions on other arterials that cross the initial one. Thus over time, samples of congested conditions at each of the approaches to an intersection can be observed.

For most of the sample chains, the drivers are instructed to: (1) travel from one end of a roadway to the other end, (2) turn around, (3) travel back in the opposite direction to the start, (4) turn about again, and (5) then continue traveling back and forth several times. In some cases, more than one roadway would be sampled before the driver completed the directional run and returned to the point of origin. In many cases, one driver could thus collect three or four directional samples within a three-hour peak period. In other cases two or more drivers can be assigned to one route if the route is expected to be particularly long and/or slow, in terms of travel time duration. Depending upon the specific analytical application, a "temporal resolution" that samples between two and four observations in the peak period is usually a sufficient determinant of the range of congested conditions – of fastest to slowest. The more frequent the temporal resolution, the more certain would the analyst be that the true slowest and fastest conditions have been observed – however, such more frequent temporal resolution requires the availability of additional resources. The term "temporal coverage" refers to the overall time period covered by the sampling. (i.e., weekday AM peak period, mid-day peak period, and PM peak period).

Another dimension of the sampling is that of the "spatial coverage", which refers to the geographic extent of the sampling. In 2009 sampling coverage included the urban and developing parts of the

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Appendix C: – Arterial Travel and Speed Sampling Overview

County, thereby excluding the rural parts of the County. The term “spatial resolution” refers to how closely spaced the samples were on different parts of the overall highway network. Within the In 2009 spatial coverage area, samples were conducted on: (a) major and minor State Highways, (b) major and minor County arterials, (c) selected municipal roadways, and (d) selected M-NCPPC (park) arterial roadways. No samples were explicitly collected on Interstate Freeways or National Park Service Parkways.

The arterial travel time and speed samples collected in 2009 expand upon the comprehensive sampling that was done in 2007, which was a significant departure from the more ad hoc and limited sampling conducted in 2004, 2005, and 2006.

The particulars of the sampling plan were developed by Motion Maps LLC, one of the consultants assisting Planning staff on this work program item. This included identifying which roadways would be sampled in conjunction with other roadways on particular days so as to try to efficiently use the time to actually be sampling and to minimize “dead-head” travel to and from the location of the survey crew meeting sites and of the turn-around distances along the chain. In the subsequent analysis and summary phases of the work, Motion Maps LLC provided training on the use of their specialized analysis software that enabled Planning staff to also work on the processing and analysis of the numerous dataset chains, ultimately converting them into trajectory samples of GPS travel time and speed.

A Note about Data Reliability

The GPS-based travel time and speed survey data discussed in this report was collected in late February and early March of 2009. Roughly 85% of the County’s major highways and arterials (excluding those located in the rural policy areas) were sampled during the PM peak period (4-7pm). The majority of the major routes and corridors surveyed were driven multiple times in each direction during the peak period. In most cases, the reliability of the times and speeds recorded was greatly enhanced via the consistency of the results seen in the samples along various corridors. In a few cases, a limited number of samples or non-recurring congestion created by traffic incidents may have reduced the degree of reliability for some of the results. For a few select corridors, largely those that are partially within Central Business Districts, some GPS errors appeared in 2009 data. Mapping analysis of GPS probes in these locations indicated that the position of the probe wandered when the vehicle was stopped. Although this type of error did not influence travel time, distance of the segment appeared elongated as these small wandering points accumulated over one or two miles of congested roadway. Samples that were observed to have this error were therefore not included in the travel time by distance analysis but were included in Arterial Mobility and travel time by time of day analysis.

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Appendix D: – Approved Pipeline Development by Policy Area

Pipeline of Approved Residential Development

by Unit Type and Policy Area

Montgomery County and Policy Areas

Source: M-NCPPC, Research & Technology Center, Pipeline of Approved Development, 2009 Base.
as of: February 09, 2009

Policy Area*	Approved Unit Type				Total	Remaining Unit Type				Total
	Detached Single Family	Townhouse	Multifamily	Total		Detached Single Family	Townhouse	Multifamily	Total	
Aspen Hill	83	54	46	183	53	48	46	147		
Bethesda Central Business District	8	12	1,277	1,297	8	12	1,277	1,297		
Bethesda/Chevy Chase	34	39	-	73	27	17	-	44		
Clarksburg	4,105	2,898	2,454	9,457	2,793	1,490	2,295	6,578		
Cloverly	70	-	-	70	58	-	-	58		
Damascus	64	52	-	116	63	52	-	115		
Derwood	49	164	196	409	49	164	196	409		
Fairland/White Oak	94	386	-	480	75	258	-	333		
Friendship Heights	-	200	733	933	-	200	733	933		
Gaithersburg City	341	1,220	4,609	6,170	289	972	4,694	5,955		
Germantown East	7	147	-	154	3	119	-	122		
Germantown West	452	210	300	962	213	168	179	560		
Germantown Town Center	-	-	604	604	-	-	162	162		
Glenmont	-	-	-	-	-	-	-	-		
Grosvenor	-	112	-	112	-	112	-	112		
Kensington/Wheaton	517	446	45	1,008	511	400	24	935		
Montgomery Village/Montgomery Airpark	22	-	-	22	21	-	-	21		
North Bethesda	10	-	1,250	1,260	10	-	860	870		
North Potomac	66	85	-	151	53	61	-	114		
Olely	179	103	141	423	141	103	141	385		
Potomac	207	165	547	919	111	38	467	616		
Research & Development Village	4	-	168	172	4	-	52	56		
Rockville City	42	47	3,516	3,605	42	17	3,516	3,575		
Shady Grove	6	36	-	42	6	36	-	42		
Silver Spring Central Business District	-	-	2,918	2,918	-	-	2,918	2,918		
Silver Spring/Takoma Park	24	121	169	314	22	90	169	281		
Twainbrook	-	-	-	-	-	-	-	-		
Wheaton Central Business District	-	-	180	180	-	-	180	180		
White Flint	1	-	1,973	1,974	1	-	1,973	1,974		
Rural	1,311	109	-	1,420	1,125	103	-	1,228		
Total	7,696	6,606	21,126	35,428	5,678	4,460	19,882	30,020		

Note: The Pipeline of Approved Residential Development is the number of housing units that have been approved but not yet built in Montgomery County at a given point in time.

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Appendix D: – Approved Pipeline Development by Policy Area

Pipeline of Approved Commercial Development

Summary by Policy Area

Montgomery County, Maryland

Source: M-NCPPC, Research & Technology Center, Pipeline of Approved Development, 2009 Base. as of: February 2009

Policy Area	Square Feet		Estimated Job Capacity		Estimated Job Capacity by Development Type				
	Approved	Remaining	Approved	Remaining	Office	Retail	Industrial	Other	
Aspen Hill	62,986	62,986	80	80	75	0	5	0	
Bethesda Central Business District	500,004	500,004	958	957	351	411	0	195	
Bethesda/Chevy Chase	299,023	299,023	1,006	1,006	721	285	0	0	
Clarksburg	3,729,220	3,192,359	11,963	9,815	8,795	1,020	0	0	
Cloverly	223,148	106,172	17	16	6	0	0	11	
Damascus	3,162	3,162	13	13	13	0	0	0	
Derwood	424,643	406,793	1,565	1,564	1,389	31	0	0	
Fairland/White Oak	3,484,613	2,824,247	9,672	7,591	7,124	199	128	140	
Friendship Heights	760,055	760,055	3,033	3,033	2,670	197	0	166	
Gaithersburg City	4,532,096	3,827,007	15,488	15,488	12,030	2,973	226	259	
Germantown East	3,105,288	1,945,543	10,679	9,019	8,682	274	0	63	
Germantown West	1,878,570	1,702,053	7,301	7,226	6,926	285	0	15	
Germantown Town Center	150,269	145,217	15	15	8	7	0	0	
Glennmont	8,585	8,585	17	17	0	0	0	17	
Grosvenor	0	0	0	0	0	0	0	0	
Kensington/Wheaton	38,904	33,974	77	22	14	0	8	0	
Montgomery Village/Montgomery Airpark	1,304,211	1,294,711	3,213	3,213	1,638	0	1,575	0	
North Bethesda	3,473,068	2,164,153	13,740	7,913	6,344	947	73	549	
North Potomac	40,000	40,000	160	160	160	0	0	0	
Olney	579,755	579,755	208	207	10	20	0	177	
Potomac	1,350,000	1,350,000	3,375	3,375	1,664	1,514	0	197	
Research & Development Village	4,237,629	2,531,815	12,457	7,584	1,600	0	3,507	2,477	
Rockville City	5,628,148	5,166,720	20,197	18,556	16,320	694	272	1,271	
Shady Grove	6,400	6,400	16	16	0	16	0	0	
Silver Spring Central Business District	1,644,784	804,826	5,450	5,218	3,285	1,629	0	304	
Silver Spring/Takoma Park	203,445	183,300	284	283	261	21	1	0	
Twinbrook	447,914	447,914	1,280	1,280	0	0	0	1,280	
Wheaton Central Business District	4,000	4,000	10	10	0	10	0	0	
White Flint	1,684,937	1,603,199	5,895	5,691	4,592	1,098	0	1	
Rural	657,568	617,924	1,313	1,312	216	954	1	141	
Total	40,462,425	32,611,897	129,464	110,680	84,894	12,585	5,940	7,263	

Note: The Pipeline of Approved Commercial Development is the total square footage and estimated job-generating capacity of office, retail, industrial and other commercial development projects that have been approved but not yet built in the County. Approved square footage is converted to job estimates using standard square-foot-to-job multipliers for a given type of development, unless the developer has agreed to limit the number of jobs in a project.

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Appendix E: – CTP and CIP Project Status as of February 2009

Construction Projects (State & County)	LOCATION/LIMITS	AGENCY DETAILS	% comp/status
Citadel Avenue Extended*	S. of Marinelli to Nicholson Ln	County New 2-Lane Road	70%
Reidland Rd*	Crabs Branch Way to Needwood Rd	County Intersection Improvements	42%
Inter-County Connector (Contract A)*	I-370 to MD 97	State New 6-lane multi-modal freeway facility	41%
(Phase I)	Old Georgetown Road to Maple/Chapman Ave	State New Interchange	39%
MD 124 (Woodfield Rd) [Phase II]	S. of Airpark Rd. to Rosewood Manor Lane	State Widen Road to 6 Lanes	37%
Inter-County Connector (Contract C)*	West of US 29 to East of I-95	State New 6-lane multi-modal freeway facility	30%
Inter-County Connector (Contract B)*	East of MD 97 to West of US 29	State New 6-lane multi-modal freeway facility	6%
MD 109, Old Hundred Road *	Little Bennett Creek	State Replace deck on bridge	0%
MD 650 @ Adelphi Rd*	Intersection Vicinity	State Widen MD-650 (WB), Add lane Adelphi in median	0%
MD 355 @ MD 118*	Intersection Vicinity	State SB MID left turn bay extension, full signal upgrade	0%
Queen Elizabeth @ Prince Philip Dr*	Intersection Vicinity	State Full Signal Upgrade	0%
MD 650 @ MD 97	Intersection Vicinity	State EB left turn lane (to NB MD 97) construction	0%
SHA Development & Evaluation (D&E)			
I-270 @ Watkins Mill Rd extended	Future interchange @ Watkins Mill extended	State New interchange	PP
I-270/US 15 multi-modal study	Shady Grove Rd to N Biggs Rd	State Multi-modal improvements	PP
I-495 Capital Beltway	American Legion Bridge (County Line) to I-270	State Lane feasibility study	PP
MD 28/MD 355/MD 586/MD 911	Intersection Vicinity	State Study to construct intersection improvements	PP
MD 108 @ Fieldcrest Rd		State New bypass lane construction	PP
MD 115 at Bowie Mill Rd		State Extension of EB left turn lane	PP
US 29 @ Blackburn Rd *		State New interchange	PP: Not Funded
I-270 and US 15*	MD 121 (Clarksburg Rd.)	State Interchange Improvement and realignment	Design
MD 586 (Veirs Mill Rd) @ Twinbrook Pkwy *		State right turn lane construction	Design
MD 28/MD 198 corridor study *	MD 97 and PG County Line	State Widening to 4 lanes	ROW
MD 97 @ Randolph Rd *		State New interchange	Engineering
MD 124 (Woodfield Rd) [Phase III] *	Mid County Hwy. to Warfield	State Widening to 6 lanes	Engineering
US 29 @ Fairland/Wusgrove Rd *		State New interchange	Engineering
US 29 @ Greencastle Rd *	Briggs Chaney Interchange to MD 198 intchg.	State New interchange	Engineering: On Hold
US 29 @ Stewart La *		State New interchange	Engineering: On Hold
US 29 @ Tech Rd/Industrial Pkwy *		State New interchange	Engineering: On Hold
MD 97 @ MD 28 Norbeck Rd *		State SB 2nd left turn lane construction	Engineering: On Hold
MD 97 (Brookeville Bypass) *	MD 97 to N. of Town of Brookeville	State Construct 2 lane highway bypass at Brookeville	On Hold
MD 117 (Clopper Rd/Diamond Ave) [Phase III] *	I-270 to Metropolitan Grove Rd	State Intersection improvements, widening to 4/6 lanes	On Hold
MD 117 (Clopper Rd) [Phase III] *	Metropolitan Grove Rd to Seneca Creek Park	State Intersection improvements, widening to 4/6 lanes	On Hold
MD 124 (Woodfield Rd) [Phase II] *	Fieldcrest to S of Airpark	State Widening to 6 lanes	On Hold
MD 355/Montrose Rd/Randolph Rd/CSX RR *		State New interchange	On Hold

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Appendix E: – CTP and CIP Project Status as of February 2009

County DPWT Facility Planning			
Nebel Street Extended	Chapman Ave to Randolph Rd	County	Roadway Extension to Randolph Rd Property Acquisition
Midcounty Corridor Study	Mid County Study Area	County	Transportation-Related Improvements Facility Planning I
Seminary Rd Intersection *	Seminary Rd/PI/Second Ave/Linden Ln/Brookeville	County	Intersection/Roadway Improvements Facility Planning II
Goshen Rd	Giard St to Warfield Rd	County	Widening from 2 to 4/6 lanes Facility Planning II
Observation Dr *	Water Discovery Ln to Stringtown Rd	County	sections Facility Planning II
Randolph Rd *	Gaynor Rd to Charles Rd	County	Safety Improvements In Design
Thompson Rd *	Thompson Rd and Rainbow Dr	County	New 2-lane primary road In Design
Father Hurley Blvd Extended	Wisteria Dr to MD 118	County	Roadway Extension to MD 118 In Design
Dale Dr at Colesville Rd	Intersection Vicinity	County	Construct EB and WB approach lanes In Design
Woodfield Rd Extended	Main St to MD 27	County	New 2-lane arterial In Design
Chapman Ave Extended	N. of MD 187 to Randolph Rd	County	Roadway Extension to Randolph Rd In Design
Montrose Parkway East	MD 187 to MD 586	County	New 4-lane arterial road In Design
Century Blvd	Father Hurley Blvd to Crystal Rock Dr	County	Roadway extension to Crystal Rock Dr Participation
Watkins Mill Rd Extended	e. of I-270 to W. of I-270	County	section Participation
Completed Projects (State & County)			
New Roads/Interchanges:			
Montrose Parkway West	E. of Tildenwood to MD 187	County	
Stringtown Road Extended	MD 355 to I-270 ramps at MD 121	County	
Road Widening:			
Fairland Rd	Greencastle Ridge Terr to Fairland Park	County	
Fairland Rd	MD 28 to Duffel Mill Rd	County	
Grade-Separated Interchange Improvements:			
I-495 Ramps @ University Blvd		State	
Intersection Improvements:			
Rockville Pike (MD 355) @ Twinbrook Pkwy		County	
MD 650 @ Oakview Dr		County	
S Glen at Falls Rd		County	
Resurfacing/Rehabilitation:			
Clara Barton Parkway Bridge WB*	Replace Bridge Deck on Ramp Bridge 15103	State	
MD 650 @ Holton Lane*	to Merrimac Dr 800' e/w of MD 650	State	
MD 396	MD 614 to Onondaga Rd	State	
Tavilah Rd - Phase 1	MD 28 to Duffel Mill Rd	County	
KEYNOTES:			

PP = Project Planning
 TBA = Awaiting Start of Construction
 Property Acquisition = Property/Right-of-Way Acquisition Phase
 Participation = Partial developer funded/participation project
 Phase I FP = Plans < 35% Complete (County)
 Phase II FP = Plans 35% Complete (County)
 Design = Plans 35 to 100% Complete (County)

* Denotes newly added project or change in status since April 2008

2009 Highway Mobility Report

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