

Preliminary Draft
Montgomery County
Annual Development Approval and Congestion (ADAC) Report
Appendices

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Appendix A: Round 6.3 Forecasts 2000-2010 by Policy Area

Policy Area	2000 Households	2005 Households	2010 Households	2000 Total Jobs	2005 Total Jobs	2010 Total Jobs
Aspen Hill	23,742	24,172	24,937	8,242	8,245	8,309
Bethesda CBD	5,841	6,811	7,246	37,159	42,174	43,280
Bethesda/Chevy Chase	27,693	28,643	28,843	48,730	51,179	52,308
Clarksburg	757	2,457	5,357	3,640	5,477	7,732
Cloverly	5,207	5,382	5,542	1,391	1,443	1,465
Damascus	3,281	3,461	3,671	2,673	2,674	2,691
Derwood	5,587	5,647	6,507	19,619	20,976	22,202
Fairland/White Oak	26,278	27,778	28,198	30,044	32,991	37,965
Friendship Heights	3,325	3,325	3,625	8,898	10,112	10,870
Gaithersburg City	20,520	22,599	25,094	52,925	54,733	58,684
Germantown East	7,196	8,075	8,715	7,665	9,376	12,415
Germantown Town Center	131	631	1,196	3,177	3,704	5,470
Germantown West	18,022	21,143	22,318	9,556	11,734	13,337
Glenmont	1,067	1,067	1,357	955	955	964
Grosvenor	2,682	3,532	4,548	644	645	654
Kensington/Wheaton	32,101	32,421	32,771	18,457	18,678	18,905
Montgomery Village/Airpark	18,337	18,427	18,647	15,428	15,918	16,183
North Bethesda	13,792	14,344	14,864	61,093	61,839	64,198
North Potomac	8,534	8,894	9,294	1,937	1,941	2,003
Olney	10,725	11,335	12,035	7,134	7,138	7,207
Potomac	16,457	16,907	17,347	12,283	12,438	12,561
R & D Village	2,603	3,223	4,183	13,952	16,796	20,617
Rockville City	17,193	19,974	22,839	79,136	91,028	103,185
Shady Grove	347	347	597	4,244	4,361	4,505
Silver Spring CBD	5,187	5,517	6,638	34,413	36,084	38,227
Silver Spring/Takoma Park	29,073	29,149	29,298	20,993	21,060	21,308
Twinbrook	3	3	337	11,259	11,648	11,843
Wheaton CBD	1,993	2,072	2,662	11,440	11,444	11,586
White Flint	956	1,609	2,074	8,047	8,210	9,142
Rural	15,935	17,555	19,260	9,866	10,000	10,185
Total	324,565	346,500	370,000	545,000	585,000	630,000

Appendix B: Residential Development Remaining in the Pipeline
By Policy Area

Policy Area	SF UNITS	TH UNITS	MF UNITS	TOTAL	% OF TOTAL
Clarksburg	2774	2428	1406	6608	22.6%
Rockville City	809	305	2628	3742	12.8%
White Flint	0	0	1830	1830	6.3%
Bethesda CBD	11	18	1552	1581	5.4%
Silver Spring CBD	0	10	1351	1361	4.6%
Fairland/White Oak	291	309	719	1319	4.5%
Germantown West	805	202	297	1304	4.5%
Rural	1160	0	0	1160	4.0%
R&D	204	0	938	1142	3.9%
North Bethesda	37	0	1090	1127	3.8%
Grosvenor	0	0	1013	1013	3.5%
Friendship Heights	0	0	933	933	3.2%
Aspen Hill	144	23	751	918	3.1%
Potomac	197	165	522	884	3.0%
Gaithersburg City	329	238	307	874	3.0%
Germantown Twn Ctr	0	151	610	761	2.6%
Olney	126	16	241	383	1.3%
Germantown East	13	45	316	374	1.3%
Wheaton CBD	1	126	243	370	1.3%
Bethesda-CC	74	35	240	349	1.2%
Mont Village/Airpark	5	0	342	347	1.2%
Damascus	112	133	0	245	0.8%
Cloverly	221	0	0	221	0.8%
North Potomac	87	29	37	153	0.5%
Kensington/Wheaton	54	73	0	127	0.4%
Glenmont	0	0	122	122	0.4%
SS/Takoma Park	19	0	0	19	0.1%
Derwood	7	0	0	7	0.0%
TOTAL	7480	4306	17488	29274	100.0%

Appendix C: Total Peak Hour Trips Generated by Residential Pipeline Development by Policy Area Ranked by Total Peak Hour Trips Generated

Policy Area	SF Trips*		TH Trips		MF Trips		TOTAL	% Of TOTAL
	AM	PM	AM	PM	AM	PM		
Clarksburg	2072	2574	1242	1477	577	665	8608	27.0%
Rockville City	606	754	150	227	1074	1238	4049	12.7%
Rural	1089	1275	0	0	0	0	2364	7.4%
Silver Spring CBD	0	0	5	5	945	945	1899	6.0%
Germantown West	601	747	97	168	125	142	1878	5.9%
Fairland/White Oak	276	323	149	254	101	138	1241	3.9%
White Flint	0	0	0	0	553	646	1199	3.8%
Gaithersburg City	246	306	118	169	100	116	1057	3.3%
Potomac	187	219	82	119	188	218	1012	3.2%
R&D	154	191	0	0	308	357	1010	3.2%
Grosvenor	0	0	0	0	411	478	889	2.8%
Bethesda CBD	9	9	8	8	466	466	856	2.7%
North Bethesda	35	41	0	0	347	404	827	2.6%
Aspen Hill	137	160	11	19	218	252	797	2.5%
Germantown Twn Ctr	0	0	75	107	247	288	717	2.2%
Friendship Heights	0	0	0	0	280	280	560	1.8%
Cloverly	210	245	0	0	0	0	455	1.4%
Damascus	106	124	65	103	0	0	399	1.2%
Olney	120	140	8	13	25	69	375	1.2%
Germantown East	12	14	22	37	129	150	365	1.1%
Wheaton CBD	1	1	60	105	97	97	362	1.1%
Mont Village/Airpark	5	6	0	0	135	152	297	0.9%
North Potomac	83	97	14	24	5	5	227	0.7%
Bethesda-CC	70	82	17	29	5	5	208	0.7%
Kensington/Wheaton	51	60	35	61	0	0	184	0.6%
SS/Takoma Park	18	21	0	0	0	0	39	0.1%
Derwood	7	8	0	0	0	0	14	0.0%
Glenmont	0	0	0	0	5	5	10	0.0%
TOTAL	6096	7396	2157	2926	6339	7116	31898	100.0%

*SF = Single Family Units; TH = Townhouse Units; MF = Multi-family Units (garden, high-rise, elderly housing, etc.)

Appendix D: Square-Footage of Non-Residential Development Remaining in the Pipeline
by Policy Area Ranked by Total Square-Footage (000s)

Policy Area	OFF	RET	IND	OTH	R&D	WRHS	MIX-USE	TOTAL	% TOT
Rockville City	2796.7	60.3	0.0	259.5	0.0	0.0	4617.8	7734.3	24.9%
R&D	1704.8	750.0	210.8	0.0	17.5	0.0	622.6	3305.7	10.6%
Germantown West	2104.5	83.7	0.0	3.5	0.0	0.0	158.2	2349.9	7.6%
Germantown East	2237.9	26.7	0.0	0.0	0.0	0.0	8.4	2272.9	7.3%
Fairland/White Oak	2022.2	5.2	0.0	50.0	0.0	0.0	10.2	2087.5	6.7%
White Flint	77.2	-302.8	0.0	214.0	0.0	0.0	1966.1	1954.5	6.3%
Gaithersburg City	1527.2	5.0	0.0	0.0	0.0	0.0	363.2	1895.4	6.1%
North Bethesda	571.3	130.3	0.0	0.0	0.0	0.0	977.2	1678.8	5.4%
Silver Spring CBD	23.0	0.0	0.0	13.2	40.0	0.0	1595.8	1672.0	5.4%
Friendship Heights	295.7	0.0	0.0	0.0	0.0	0.0	768.1	1063.9	3.4%
Potomac	0.0	0.0	0.0	18.2	0.0	0.0	850.0	868.2	2.8%
Clarksburg	463.1	120.5	0.0	0.0	0.0	0.0	272.5	856.1	2.8%
Germantown Twn Ctr	152.0	41.0	5.3	10.6	0.0	0.0	399.0	607.8	2.0%
Derwood	22.4	0.0	1.5	9.9	0.0	170.4	313.3	517.5	1.7%
Bethesda-CC	125.0	24.3	0.0	0.0	0.0	0.0	155.7	305.1	1.0%
Twinbrook	0.0	0.0	0.0	0.0	0.0	0.0	295.2	295.2	0.9%
Wheaton CBD	278.3	0.0	0.0	0.0	0.0	0.0	1.5	279.7	0.9%
Mont Village/Airpark	36.0	15.5	136.9	0.0	0.0	77.6	0.0	265.9	0.9%
Rural	27.6	20.6	13.6	169.0	0.0	13.4	0.0	244.2	0.8%
Aspen Hill	0.0	12.3	0.0	198.8	0.0	0.0	0.0	211.1	0.7%
SS/Takoma Park	4.0	1.2	31.7	0.4	0.0	97.2	38.6	173.1	0.6%
Bethesda CBD	3.4	110.8	0.0	0.0	0.0	0.0	2.6	116.9	0.4%
Shady Grove	33.0	40.2	0.0	42.1	0.0	0.0	0.0	115.4	0.4%
Kensington/Wheaton	19.4	42.9	0.0	11.7	0.0	8.0	0.0	82.1	0.3%
Cloverly	0.0	7.6	0.0	0.0	0.0	0.0	42.8	50.4	0.2%
Damascus	0.0	43.2	0.0	0.0	0.0	0.0	0.0	43.2	0.1%
Olney	0.0	39.2	0.0	0.0	0.0	0.0	0.0	39.2	0.1%
Grosvenor	0.0	8.6	0.0	0.0	0.0	0.0	0.0	8.6	0.0%
Glemont	0.0	0.0	0.0	8.6	0.0	0.0	0.0	8.6	0.0%
North Potomac	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	0.0%
TOTAL	14524.8	1286.1	399.7	1010.9	57.5	366.6	13458.9	31104.5	100.0%

*OFF = Office; RET = Retail; IND = Industrial; OTH = Other; R&D = Research & Development; WRHS = Warehouse; MIX-USE = Mixed-Use Development

Appendix E: Major FY04-09 Maryland CTP Construction Projects

Project Name	Description	Policy Area
I-270 West Spur @ Democracy / Westlake	Interchange reconstruction (direct HOV ramps)	North Bethesda
I-270 @ Clopper Rd (MD 117)	Interchange reconstruction (new NB to EB ramp) and Park & Ride lot	Gaithersburg City
I-495 @ Old G'Town Rd (MD 187)	Interchange Reconstruction / Bridge replacement	North Bethesda / Bethesda – Chevy Chase
Columbia Pike (US 29) @ Randolph / Cherry Hill	Construct new grade-separated interchange	Fairland / White Oak
Columbia Pike (US 29) @ Briggs Chaney	Construct new interchange	Fairland / White Oak
Columbia Pike (US 29) @ MD 198	Construct new interchange / road relocation	Fairland / White Oak
Darnestown Rd (MD 28)	Widen existing road to 4 divided / 6 lanes from Riffle Ford Rd to Great Seneca Hwy	North Potomac / Gaithersburg City / R&D Village
Muncaster Mill Rd (MD 115)	Safety improvements between Norbeck Rd (MD 28) and Muncaster / Redland Rds	Olney / Aspen Hill / Rock Creek / Derwood
Congestion Relief Study (CRS) Intersections	Spot intersection improvements	Countywide

Appendix F: Major Road Construction Projects in FY05-10 County CIP

Project Name	Description	Policy Area
Montrose Parkway West*	New road and improvements I-270 to East Jefferson St	North Bethesda
Father Hurley Blvd Extended	New road from CSX tracks to MD 118	Germantown West
Nebel Street Extended	New road from Randolph Road to Chapman Avenue	North Bethesda
Stringtown Road Extended (Phase I)	New road from I-270 to MD 355	Clarksburg
Briggs Chaney Rd Widening	Widen existing road to 4 lanes divided between Automobile Boulevard and a point east of Aston Manor Drive	Fairland / White Oak
Valley Park Drive	Complete link between MD 27 and MD 124	Rural
Woodfield Rd Extended (A-12)	New road east of Damascus center connecting MD 27 and existing MD 124 at MD 108	Rural

**Appendix G: Major Project Planning (Development and Evaluation Program) Studies in
FY 04-09 Draft Maryland CTP**

Project Name	Description	Policy Area
I-270 Corridor	Study for highway improvements along I-270 and transit service in the Corridor Cities Transitway alignment + Managed Lanes Study	(from north to south) Rural, Clarksburg, Germantown East, Germantown West, Gaithersburg City, Rockville City
I-270 @ Watkins Mill Rd extended	New Interchange	Gaithersburg City
Capital Beltway	Managed Lanes Study	Potomac, Bethesda / Chevy Chase, North Bethesda, Kensington / Wheaton, Silver Spring / Takoma Park, Fairland / White Oak
US 29 @ Fairland / Musgrove	Grade-Separated Interchange	Fairland / White Oak
US 29 Interchanges	Stewart, Tech, Greencastle, Blackburn	Fairland / White Oak, Cloverly
ICC	Study for new road between I-370 and US 1 in Prince George's County	Derwood, Rural, Olney, Aspen Hill, Cloverly, Fairland / White Oak
MD 28 / MD 198	Study to construct master-planned improvements between Georgia Ave (MD 97) and I-95 in Prince George's County	Aspen Hill, Olney, Cloverly, Fairland / White Oak, Rural
Georgia Ave (MD 97) @ Randolph Rd	Study to construct grade-separated interchange	Glenmont, Kensington / Wheaton
Georgia Ave (MD 97) @ Norbeck Rd (MD 28)	Study to construct grade-separated interchange	Aspen Hill
Rockville Town Center	Study to construct grade-separated interchanges at MD 355 @ Middle Ln, MD 355 @ MD 28, and MD 355 @ MD 586 and MD 911	Rockville City
Brookeville Bypass	Study to construct Georgia Ave (MD 97) bypass around Town of Brookeville	Rural
Clopper Rd / Diamond Ave (MD 117)	Study intersection capacity improvements from Seneca Creek State Park to I-270	Gaithersburg City, North Potomac, Germantown West
Woodfield Rd (MD 124)	Study to conduct master-planned road widening between Midcounty Hwy and Warfield Rd	Gaithersburg City, Montgomery Village / Airpark, Rural
Rockville Pike (MD 355) @ Montrose / Randolph Rds	Study to construct grade-separated interchange and bridge crossing of CSX / MARC tracks	North Bethesda

Appendix H: Major FY05-FY10 CIP Projects in Facility Planning

Project Name	Description	Policy Area
Deer Park Road*	Bridge Replacement (includes Oakmont Ave realignment)	Derwood
Chapman Ave Extended*	New road from Randolph/Maple Ave to MD 187	North Bethesda, White Flint
Randolph Rd*	Capacity improvements from Parklawn Dr to MD 586	North Bethesda, Kensington/Wheaton
Goshen Rd South*	Widen to 4 or 6 lanes between Oden'hal Ave and Warfield Rd	Gaithersburg City, Montgomery Village / Airpark
Montrose Parkway East*	New road between Parklawn Dr and MD 586	North Bethesda, White Flint, Aspen Hill
Longdraft Rd*	Widen to 4 lanes from MD 124 to MD 117	Gaithersburg City, North Potomac
Ripley District Improvements*	Dixon Ave Extended and other street improvements	Silver Spring CBD
Midcounty Highway / Middlebrook Rd*	New road between Montgomery Village Ave and MD 27 and widening of Middlebrook Rd from MD 355 to Midcounty	Montgomery Village / Airpark, Germantown East, Rural
Father Hurley Blvd Extended*	New 4 lane road from Wisteria Dr to MD 118	Germantown West, Germantown Town Center
Burtonsville Access Road*	New road for local circulation and access in Burtonsville	Cloverly
Fairland Rd*	Widening- US 29 to Prince George's Line	Fairland / White Oak
New Hampshire Ave (MD 650) @ Oakview Dr	Intersection Improvements	Silver Spring / Takoma Park
Redland Rd	Widening / Recon / Sidewalk	Derwood
Century Blvd	New road / bridge	Germantown West
Citadel Avenue*	New road (southernmost section of Chapman Ave extension)	White Flint
Greencastle Rd	Widening Greencastle Ridge Terrace to Fairland RP entrance	Cloverly

*Denotes Go Montgomery! Project

Appendix I: Critical Lane Volumes

Rank	Intersection Name	Policy Area	Count Date	Day	LATR Standard	Morning Peak Hour	AM CLV / LATR	AM CLV	Evening Peak Hour	PM CLV	PM CLV / LATR	Intersection CLV	ICLV/ LATR
1	Rockville Pike at W Cedar Ln	Bethesda/Chevy Chase	05/01/03	TH	1600	8:00 to 9:00	1.33	2131	4:15 to 5:15	2391	1.49	2391	1.49
2	Rockville Pike at Jones Bridge/Center	Bethesda/Chevy Chase	04/24/03	TH	1600	8:00 to 9:00	0.94	1497	5:00 to 6:00	2299	1.44	2299	1.44
3	Key West Ave at Darnestown Rd	North Potomac	05/08/01	T	1475	7:00 to 8:00	1.51	2225	5:00 to 6:00	1127	0.76	2225	1.51
4	Key West Ave at W Gude Dr	Rockville City	01/08/02	T	1500	8:15 to 9:15	1.35	2020	5:00 to 6:00	2080	1.39	2080	1.39
5	Montrose Rd at E Jefferson St	North Bethesda	05/22/03	TH	1550	7:45 to 8:45	0.96	1492	5:00 to 6:00	2077	1.34	2077	1.34
6	Hungerford Dr at Middle Ln/Park Rd	Rockville City	04/12/01	TH	1500	6:45 to 7:45	1.17	1750	4:30 to 5:30	2040	1.36	2040	1.36
7	Hungerford Ln (MD 355) at Gude Dr	Rockville City	04/18/01	W	1500	8:00 to 9:00	1.35	2028	5:00 to 6:00	2017	1.34	2028	1.35
8	Connecticut Ave at Veirs Mill Rd	Kensington/Wheaton	09/19/01	W	1600	7:45 to 8:45	1.23	1975	5:00 to 6:00	1825	1.14	1975	1.23
9	Connecticut Ave at Jones Bridge Rd	Bethesda/Chevy Chase	06/11/03	W	1600	7:15 to 8:15	0.96	1533	5:15 to 6:15	1974	1.23	1974	1.23
10	Shady Grove Rd at Midcountry Hwy	Derwood	05/10/01	TH	1475	7:00 to 8:00	1.33	1961	4:30 to 5:30	1242	0.84	1961	1.33
11	Columbia Pike at Southwood	Kensington/Wheaton	10/02/02	W	1600	7:15 to 8:15	1.21	1929	5:00 to 6:00	1614	1.01	1929	1.21
12	University Blvd at Dennis Ave	Kensington/Wheaton	07/31/01	T	1600	8:30 to 9:30	0.96	1528	5:00 to 6:00	1902	1.19	1902	1.19
13	Montgomery Village Ave at Russell Ave	Gaithersburg City	12/13/01	TH	1450	8:00 to 9:00	0.87	1266	5:00 to 6:00	1891	1.3	1891	1.3
14	Columbia Pike at Milestone/Stewart	Fairland/White Oak	01/29/03	W	1500	7:15 to 8:15	1.26	1890	5:00 to 6:00	1849	1.23	1890	1.26
15	Randolph Rd at Gaynor/Rockinghorse	North Bethesda	05/13/03	T	1550	7:30 to 8:30	0.81	1259	4:45 to 5:45	1885	1.22	1885	1.22
16	Randolph Rd at New Hampshire Ave	Fairland/White Oak	10/23/02	W	1500	7:30 to 8:30	1.25	1882	5:15 to 6:15	1548	1.22	1882	1.25
17	Connecticut Ave at Randolph Rd	Kensington/Wheaton	04/11/01	W	1600	7:45 to 8:45	1.18	1880	6:00 to 7:00	1840	1.15	1880	1.18
18	Georgia Ave at Dennis Ave	Kensington/Wheaton	05/01/01	T	1600	7:30 to 8:30	1.16	1863	5:00 to 6:00	1585	0.99	1863	1.16
19	River Rd at Royal Dominion/Holton Arms	Kensington/Wheaton	09/25/02	W	1600	7:45 to 8:45	1.16	1858	4:30 to 5:30	1552	0.97	1858	1.16
20	Beechtree/Nevis/River	Bethesda/Chevy Chase	09/26/02	TH	1600	7:30 to 8:30	1.16	1853	4:00 to 5:00	1465	0.92	1853	1.16
21	Norbeck Rd at Bauer Dr	Aspen Hill	02/01/01	TH	1500	8:00 to 9:00	1.22	1836	5:15 to 6:15	1685	1.12	1836	1.22
22	Frederick Rd at Shady Grove Rd	Shady Grove	12/04/01	T	1800	7:45 to 8:45	0.85	1527	4:15 to 5:15	1832	1.02	1832	1.02
23	Colesville Rd at Dale Dr	Silver Spring/Takoma Park	05/22/03	TH	1600	8:00 to 9:00	1.12	1795	5:00 to 6:00	1756	1.1	1795	1.12
24	Colesville Rd at Spring St	Silver Spring/Takoma Park	06/12/03	TH	1600	8:00 to 9:00	1.12	1786	5:00 to 6:00	1780	1.11	1786	1.12
25	River Rd at Wilson Ln	Bethesda/Chevy Chase	09/18/02	W	1600	7:30 to 8:30	1.11	1779	5:00 to 6:00	1594	1	1779	1.11
26	Piney Branch Rd at Barron St	Silver Spring/Takoma Park	06/24/03	T	1600	8:00 to 9:00	1.11	1777	5:30 to 6:30	1666	1.04	1777	1.11
27	River Rd at Whittier/Winston	Bethesda/Chevy Chase	10/02/02	W	1600	7:30 to 8:30	1.11	1776	5:00 to 6:00	1329	0.83	1776	1.11
28	Connecticut Ave at Knowles Ave	Kensington/Wheaton	04/03/01	T	1600	8:00 to 9:00	1.1	1757	4:15 to 5:15	1253	0.78	1757	1.1
29	Georgia Ave at Columbia Blvd/Seminary Ln	Silver Spring/Takoma Park	12/11/03	TH	1600	7:30 to 8:30	1.1	1754	4:45 to 5:45	1722	1.08	1754	1.1
30	Connecticut at East West Hwy	Bethesda/Chevy Chase	11/19/02	T	1600	8:00 to 9:00	1.09	1737	4:45 to 5:45	1655	1.03	1737	1.09
31	Georgia Ave at Old Baltimore Rd	Olney	05/06/03	W	1475	7:30 to 8:30	1.16	1709	4:15 to 5:15	1311	0.89	1709	1.16
32	Veirs Mill Rd at First St	Rockville City	03/18/03	TH	1500	7:30 to 8:30	0.94	1411	5:15 to 6:15	1706	1.14	1706	1.14
33	Georgia Ave at Veirs Mill Rd	Wheaton CBD	06/03/03	T	1800	7:15 to 8:15	0.95	1703	5:00 to 6:00	1635	0.91	1703	0.95
34	MD 355 at Middlebrook (N)	Germantown East	12/03/02	T	1450	8:00 to 9:00	1.17	1702	5:15 to 6:15	1378	0.95	1702	1.17
35	Columbia Pike at Lockwood Dr	Fairland/White Oak	10/03/02	TH	1500	7:15 to 8:15	1.13	1699	5:00 to 6:00	1395	0.93	1699	1.13
36	Norbeck Rd at Bel Pre Rd	Aspen Hill	01/31/01	W	1500	7:15 to 8:15	1.13	1695	5:00 to 6:00	1496	1	1695	1.13
37	University Blvd at Piney Branch Rd	Silver Spring/Takoma Park	05/27/03	T	1600	7:15 to 8:15	1.06	1693	4:45 to 5:45	1567	0.98	1693	1.06

Appendix I: Critical Lane Volumes

38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76		
Columbia Pike at Fairland Rd	Falls Rd at Dunster/Falls Chapel	Ridge Rd at Bethesda Church Rd	Randolph Rd at Lauderdale	Redland Rd at Crabbs Branch Way	Old Georgetown Rd at Tuckerman Ln	Georgia Ave at Randolph Rd	Georgia Ave at Seminary	Rockville Pike at Strathmore Ave	Old Georgetown Rd at W Cedar Ln	New Hampshire Ave at Adelphi/Dilston	Frederick Rd at Old Hundred Rd (MD 109)	Veirs Mill Rd at Gridley	Rockville Pike at Wilson/NIH	Rockville Pike at Pipers Mill Rd	Rockville Pike (MD 355) at Pooks Hill Rd	Columbia Pike at Burr Mill Ave	Colesville Rd at University Blvd (S)	Muncaster Rd at MD 108	New Hampshire Ave at Lockwood Dr	Randolph Rd at Veirs Mill Rd	Connecticut Ave at University Blvd	Veirs Mill Rd at Aspen Hill Rd	Midcounty Hwy at Washington Grove Ln	Ridge Rd at Kings Valley Rd	Rockville Pike at Nicholson Ln	Great Seneca Hwy at Muddy Branch Rd	Columbia Pike at Prelude Dr	Colesville Rd at University Blvd (N)	Columbia Pike at E Randolph/Cherry Hill	Frederick Rd at Clarksburg Rd	River Rd at Goldsboro Rd	New Hampshire Ave at Oakview	E Gude Dr at Southlawn Ln	River Rd at Seven Locks Rd	Wisconsin Ave at Bradley Blvd	East-West Hwy at Grubb Rd	MD 355 at Edmondston Ln	Great Seneca Hwy at Key West Ave		
Fairland/White Oak	Rockville City	Damascus	North Bethesda	Shady Grove	North Bethesda	Kensington/Wheaton	Silver Spring/Takoma Park	North Bethesda	Bethesda/Chevy Chase	Silver Spring/Takoma Park	Rural	Kensington/Wheaton	Bethesda/Chevy Chase	Kensington/Wheaton	Bethesda/Chevy Chase	Fairland/White Oak	Kensington/Wheaton	Rural	Fairland/White Oak	Kensington/Wheaton	Kensington/Wheaton	Aspen Hill	Montgomery	Village/Airpark	Rural	White Flint	Gaithersburg City	Fairland/White Oak	Kensington/Wheaton	Fairland/White Oak	Clarksburg	Bethesda/Chevy Chase	Silver Spring/Takoma Park	Rockville City	Potomac	Bethesda CBD	Silver Spring/Takoma Park	Rockville City	R&D Village	
04/10/01	10/23/01	09/06/01	03/09/01	07/11/01	02/13/03	01/08/03	05/16/02	02/13/03	04/30/03	02/12/04	02/01/01	03/01/00	01/23/02	11/18/03	04/25/01	10/01/02	10/02/02	12/10/03	12/04/02	10/31/02	04/10/01	03/22/03	04/30/03	09/06/01	05/21/03	02/02/00	12/17/02	10/03/02	04/10/01	10/08/02	09/19/02	05/04/00	06/11/02	09/17/02	04/16/03	11/05/03	03/20/03	02/11/03		
T	T	TH	T	W	TH	W	TH	TH	W	TH	TH	W	W	T	W	T	W	W	W	TH	T	T	W	TH	TH	W	T	TH	T	TH	TH	T	T	W	W	TH	T			
1500	1500	1450	1550	1800	1550	1600	1600	1550	1600	1600	1400	1600	1600	1600	1600	1600	1600	1400	1500	1600	1600	1500	1450	1400	1800	1450	1500	1600	1500	1450	1600	1600	1500	1475	1800	1600	1500	1475		
7:30 to 8:30	8:30 to 9:30	6:45 to 7:45	7:15 to 8:15	7:45 to 8:45	7:45 to 8:45	7:30 to 8:30	8:00 to 9:00	7:45 to 8:45	8:00 to 9:00	7:15 to 8:15	7:30 to 8:30	7:30 to 8:30	7:45 to 8:45	7:00 to 8:00	7:30 to 8:30	8:00 to 9:00	7:15 to 8:15	6:30 to 7:30	7:15 to 8:15	7:30 to 8:30	7:15 to 8:15	7:30 to 8:30	7:45 to 8:45	6:45 to 7:45	7:30 to 8:30	7:30 to 8:30	6:45 to 7:45	7:30 to 8:30	7:45 to 8:45	7:00 to 8:00	7:45 to 8:45	7:30 to 8:30	7:30 to 8:30	8:00 to 9:00	7:30 to 8:30	7:45 to 8:45				
1	1.1	1.08	0.9	1.07	0.84	1.03	0.93	1	0.85	1.02	0.8	0.9	0.76	1.02	0.91	1.08	1.01	1.16	0.98	1.01	1.01	0.98	1.1	1.14	0.59	1.09	1.05	0.98	0.95	1.08	0.98	0.86	1.04	1.06	0.87	0.97	1.04	1.05		
1495	1653	1565	1388	1511	1657	1654	1485	1544	1358	1639	1118	1441	1220	1626	1461	1620	1619	1618	1476	1467	1613	1609	1593	1599	1069	1578	1577	1575	1429	1569	1566	1369	1565	1565	1564	1559	1556	1556		
5:00 to 6:00	5:00 to 6:00	5:15 to 6:15	4:45 to 5:45	4:45 to 5:45	5:00 to 6:00	5:00 to 6:00	4:45 to 5:45	5:00 to 6:00	5:00 to 6:00	4:30 to 5:30	5:30 to 6:30	5:00 to 6:00	5:00 to 6:00	4:15 to 5:15	5:00 to 6:00	5:15 to 6:15	5:00 to 6:00	4:30 to 5:30	4:45 to 5:45	4:30 to 5:30	4:30 to 5:30	5:45 to 6:45	4:45 to 5:45	5:30 to 6:30	5:15 to 6:15	5:00 to 6:00	5:00 to 6:00	5:00 to 6:00	4:45 to 5:45	5:00 to 6:00	5:00 to 6:00	5:00 to 6:00	5:00 to 6:00	5:00 to 6:00	5:00 to 6:00	5:00 to 6:00	5:15 to 6:15	5:00 to 6:00		
1689	1681	1667	1663	1658	1630	1654	1649	1639	1639	1605	1631	1630	1628	1248	1625	1378	1485	1079	1608	1614	1380	1038	1607	1322	1582	1344	1365	1478	1574	1525	1393	1565	1390	1103	1432	1532	1437	1109		
1.13	1.12	1.15	1.07	0.92	1.07	1.03	1.03	1.06	1.02	1	1.17	1.02	1.02	0.78	1.02	0.92	0.93	0.77	1.07	1.08	0.86	0.65	1.11	0.94	0.85	0.93	0.91	0.92	1.05	1.05	1.08	0.98	0.98	0.98	0.93	0.75	0.8	0.96	0.96	0.75
1689	1681	1667	1663	1658	1630	1654	1649	1639	1639	1605	1631	1630	1628	1248	1625	1378	1485	1079	1608	1614	1380	1038	1607	1322	1582	1344	1365	1478	1574	1525	1393	1565	1390	1103	1432	1532	1437	1109		

Appendix I: Critical Lane Volumes

77	Veirs Mill Rd at Twinbrook Pkwy	Aspen Hill	TH	1500	7:45 to 8:45	1553	1.04	5:00 to 6:00	1463	0.98	1553	1.04
78	Seven Locks Rd at Tuckerman Ln	Potomac	T	1475	8:00 to 9:00	1552	1.05	4:45 to 5:45	1529	1.04	1552	1.05
79	East-West Hwy at 16th St	Silver Spring/Takoma Park	W	1600	7:45 to 8:45	1551	0.97	5:15 to 6:15	1461	0.91	1551	0.97
80	Woodfield Rd at Fieldcrest/Hadley Farms	Montgomery										
81	Frederick Rd at Ridge Rd	Village/Airpark	TH	1450	7:15 to 8:15	1416	0.98	5:00 to 6:00	1549	1.07	1549	1.07
82	River Rd at Little Falls Pkwy	Germentown East	W	1450	7:15 to 8:15	1542	1.06	4:45 to 5:45	1453	1	1542	1.06
83	Columbia Pike at MD 198	Bethesda/Chevy Chase	W	1600	8:00 to 9:00	1484	0.93	5:00 to 6:00	1537	0.96	1537	0.96
84	Colesville Rd at Franklin Ave	Fairland/White Oak	T	1500	8:00 to 9:00	1535	1.02	5:00 to 6:00	1308	0.87	1535	1.02
85	Frederick Rd at Redland Rd	Silver Spring/Takoma Park	T	1600	7:30 to 8:30	1314	0.82	5:00 to 6:00	1531	0.96	1531	0.96
86	New Hampshire Ave at Ednor Rd	Rockville City	T	1500	7:30 to 8:30	1528	1.02	4:30 to 5:30	1428	0.95	1528	1.02
87	Montrose Rd at Tower Oaks Blvd	Rural	T	1400	7:30 to 8:30	1524	1.09	4:30 to 5:30	1277	0.91	1524	1.09
88	University Blvd at Franklin Ave	North Bethesda	W	1550	8:00 to 9:00	1521	0.98	4:45 to 5:45	1388	0.9	1521	0.98
89	Columbia Pike at Briggs Chaney Rd	Silver Spring/Takoma Park	W	1600	7:15 to 8:15	1512	0.95	4:45 to 5:45	1350	0.84	1512	0.95
90	Georgia Ave at Arcolia Ave	Fairland/White Oak	T	1500	7:30 to 8:30	1509	1.01	5:00 to 6:00	1344	0.9	1509	1.01
91	Piney Branch Rd at Philadelphia Ave	Kensington/Wheaton	TH	1600	7:15 to 8:15	1429	0.89	4:45 to 5:45	1503	0.94	1503	0.94
92	Darnestown Rd at Riffle Ford Rd	Silver Spring/Takoma Park	T	1600	7:45 to 8:45	1291	0.81	5:00 to 6:00	1502	0.94	1502	0.94
93	Wisconsin Ave at Montgomery Ln	North Potomac	T	1475	8:30 to 9:30	1228	0.83	5:15 to 6:15	1493	1.01	1493	1.01
94	Snuffer School Rd at Centerway Rd	Bethesda CBD	W	1800	8:00 to 9:00	1136	0.63	5:00 to 6:00	1489	0.83	1489	0.83
95	Randolph Rd at Glenallen Ave	Montgomery	W	1450	7:30 to 8:30	1483	1.02	5:00 to 6:00	844	0.58	1483	1.02
96	Shady Grove Rd at Metro (N)	Village/Airpark	W	1600	7:15 to 8:15	1479	0.92	5:15 to 6:15	1056	0.66	1479	0.92
97	Georgia Ave at Rossmoor Ln	Kensington/Wheaton	T	1475	7:30 to 8:30	1250	0.85	5:00 to 6:00	1478	1	1478	1
98	Old Georgetown Rd at Wilson/Arlington	Derwood	T	1500	6:45 to 7:45	1468	0.98	4:30 to 5:30	1401	0.93	1468	0.98
99	Randolph Rd (W) at Parklawn Dr	Aspen Hill	TH	1800	8:00 to 9:00	1347	0.75	5:00 to 6:00	1452	0.81	1452	0.81
100	Georgia Ave at New Hampshire Ave	Bethesda CBD	W	1550	7:30 to 8:30	1303	0.84	5:00 to 6:00	1452	0.94	1452	0.94
101	Olney-Laytonville Rd at Olney Mill Rd	Rural	T	1400	7:30 to 8:30	1448	1.03	4:45 to 5:45	1157	0.83	1448	1.03
102	Colesville Rd at Fenton St	Kensington/Wheaton	TH	1600	7:30 to 8:30	1273	0.8	5:15 to 6:15	1431	0.89	1431	0.89
103	Quince Orchard Rd at Bank/North	Olney	TH	1475	7:15 to 8:15	1430	0.97	5:00 to 6:00	1299	0.88	1430	0.97
104	River Rd at Bradley Blvd	Silver Spring CBD	TH	1800	7:45 to 8:45	1429	0.79	4:00 to 5:00	1428	0.79	1429	0.79
105	Spring St at Cameron St	Gaithersburg City	W	1450	8:00 to 9:00	1286	0.89	5:00 to 6:00	1425	0.98	1425	0.98
106	Frederick Rd at Deer Park Dr	Potomac	TH	1475	7:30 to 8:30	1421	0.96	4:00 to 5:00	1282	0.87	1421	0.96
107	River Rd at Piney Meetinghouse Rd	North Bethesda	TH	1600	7:15 to 8:15	1416	0.89	4:00 to 5:00	1380	0.86	1416	0.89
108	Columbia Pike at Tech Rd	Gaithersburg City	W	1450	8:00 to 9:00	1250	0.86	5:00 to 6:00	1404	0.97	1404	0.97
109	Rockville Pike at East-West/Old Gtown	Rural	T	1400	7:00 to 8:00	1404	1	5:00 to 6:00	1135	0.81	1404	1
110	Rockville Pike at Montrose/Randolph	Fairland/White Oak	T	1500	7:00 to 8:00	1402	0.93	5:00 to 6:00	1366	0.91	1402	0.93
111	E Gude Dr at Crabbs Branch/Cecil	Bethesda CBD	TH	1800	8:00 to 9:00	1398	0.78	5:00 to 6:00	1318	0.73	1398	0.78
112	Rockville Pike at Congressional Ln	North Bethesda	W	1550	8:15 to 9:15	1263	0.81	5:00 to 6:00	1392	0.9	1392	0.9
113	Old Georgetown Rd at Democracy Blvd	Derwood	TH	1475	8:00 to 9:00	1390	0.94	4:45 to 5:45	1382	0.94	1390	0.94
114		Rockville City	T	1500	7:45 to 8:45	1217	0.81	5:15 to 6:15	1389	0.93	1389	0.93
		North Bethesda	T	1550	7:45 to 8:45	1384	0.89	5:00 to 6:00	1338	0.86	1384	0.89

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115	Crabbs Branch Way at Indianola Dr	Shady Grove	06/13/01	W	1800	7:45 to 8:45	1380	0.77	4:45 to 5:45	1059	0.59	1380	0.77
116	Columbia Pike at Industrial Pkwy	Fairland/White Oak	10/08/03	W	1500	7:00 to 8:00	1379	0.92	5:30 to 6:30	1323	0.88	1379	0.92
117	Falls Rd at Wootton Pkwy	Rockville City	06/05/02	W	1500	8:00 to 9:00	1379	0.92	4:45 to 5:45	1102	0.73	1379	0.92
118	Columbia Pike at Musgrove Rd	Fairland/White Oak	12/04/02	W	1500	8:00 to 9:00	1378	0.92	5:00 to 6:00	1194	0.8	1378	0.92
119	Colesville Rd at Georgia Ave	Silver Spring CBD	09/30/03	T	1800	7:30 to 8:30	1373	0.76	5:30 to 6:30	1142	0.63	1373	0.76
120	Rockville Pike at E Jefferson/Veirs Mill	Rockville City	04/12/01	TH	1500	6:45 to 7:45	1370	0.91	4:00 to 5:00	1341	0.89	1370	0.91
121	Ridge Road at Sweepstakes/Mariboro	Damascus	12/03/03	W	1450	7:00 to 8:00	1301	0.9	7:00 to 8:00	1369	0.94	1369	0.94
122	Layhill Rd at Ednor Rd/Norwood Rd	Olney	06/12/03	TH	1475	6:30 to 7:30	1366	0.93	5:00 to 6:00	1049	0.71	1366	0.93
123	MD 355 at Summit Ave	Gaithersburg City	01/17/02	TH	1450	7:00 to 8:00	1121	0.77	5:15 to 6:15	1365	0.94	1365	0.94
124	Connecticut Ave at Bradley Ln	Bethesda/Chevy Chase	03/13/03	TH	1600	7:30 to 8:30	1244	0.78	5:00 to 6:00	1363	0.85	1363	0.85
125	Shady Grove Rd and Crabbs Branch Way	Shady Grove	12/04/01	T	1800	8:00 to 9:00	1194	0.66	4:30 to 5:30	1362	0.76	1362	0.76
126	Old Georgetown Rd at Executive Blvd	White Flint	05/22/03	TH	1800	8:00 to 9:00	1359	0.76	4:30 to 5:30	1275	0.71	1359	0.76
127	Colesville Rd at East West Hwy	Silver Spring CBD	06/03/03	T	1800	8:00 to 9:00	934	0.52	5:00 to 6:00	1356	0.75	1356	0.75
128	Connecticut Ave at Manor Rd	Bethesda/Chevy Chase	11/19/02	T	1600	7:30 to 8:30	1327	0.83	5:15 to 6:15	1348	0.84	1348	0.84
129	New Hampshire Ave at Chalmers	Fairland/White Oak	09/19/01	W	1500	7:30 to 8:30	1347	0.9	5:00 to 6:00	1184	0.79	1347	0.9
130	Darnestown Rd at Tschiffely Square Rd	Gaithersburg City	03/14/02	TH	1450	8:00 to 9:00	1345	0.93	5:00 to 6:00	1177	0.81	1345	0.93
131	MD 124 at Airpark Rd	Montgomery Village/Airpark	02/28/02	TH	1450	7:45 to 8:45	1048	0.72	5:00 to 6:00	1341	0.92	1341	0.92
132	Georgia Ave at Windham Ln	Kensington/Wheaton	09/10/03	W	1600	7:15 to 8:15	1337	0.84	4:30 to 5:30	1228	0.77	1337	0.84
133	E Randolph Rd at Fairland Rd/Octagon La	Fairland/White Oak	12/09/03	T	1500	7:15 to 8:15	1045	0.7	5:00 to 6:00	1333	0.89	1333	0.89
134	Rockville Pike at Edson/White Flint Mail	North Bethesda	05/21/03	W	1550	7:30 to 8:30	923	0.6	5:30 to 6:30	1330	0.86	1330	0.86
135	Old Georgetown Rd at Battery Ln	Bethesda/Chevy Chase	04/29/03	T	1600	8:00 to 9:00	1192	0.75	5:00 to 6:00	1325	0.83	1325	0.83
136	Bradley Blvd at Huntington Pkwy	Bethesda/Chevy Chase	06/11/03	W	1600	7:45 to 8:45	980	0.61	5:30 to 6:30	1321	0.83	1321	0.83
137	Georgia Ave at MD 108	Olney	11/30/00	TH	1475	6:45 to 7:45	1318	0.89	5:15 to 6:15	1293	0.88	1318	0.89
138	Georgia Ave at University Blvd	Wheaton CBD	05/29/03	TH	1800	7:30 to 8:30	1317	0.73	4:45 to 5:45	1313	0.73	1317	0.73
139	MD 355 at Indianola/Watkins Pond	Rockville City	06/14/01	TH	1500	7:15 to 8:15	1244	0.83	5:00 to 6:00	1315	0.88	1315	0.88
140	Rockville Pike at Tuckerman Ln (N)	Grosvenor	03/25/03	TH	1800	7:45 to 8:45	1071	0.6	5:00 to 6:00	1314	0.73	1314	0.73
141	Rockville Pike at Old Georgetown Rd	White Flint	05/22/03	TH	1800	8:00 to 9:00	1247	0.69	4:45 to 5:45	1314	0.73	1314	0.73
142	Democracy Blvd at Seven Locks Rd	Potomac	06/03/03	T	1475	7:45 to 8:45	977	0.66	5:30 to 6:30	1311	0.89	1311	0.89
143	Ridge Rd at Observation Dr	Germentown East	04/24/03	T	1450	7:45 to 8:45	1049	0.72	5:00 to 6:00	1299	0.9	1299	0.9
144	Norbeck Rd at E Gude Dr	Rockville City	06/11/02	T	1500	8:00 to 9:00	1287	0.86	5:00 to 6:00	1295	0.86	1295	0.86
145	Old Georgetown Rd at Beech St	Bethesda/Chevy Chase	12/13/01	TH	1600	7:30 to 8:30	1290	0.81	4:45 to 5:45	1176	0.74	1290	0.81
146	Rockville Pike at Marinelli Rd	White Flint	06/12/03	TH	1800	7:45 to 8:45	1284	0.71	5:30 to 6:30	1394	0.77	1284	0.71
147	University Blvd at Arcola Ave	Kensington/Wheaton	12/04/03	TH	1600	7:15 to 8:15	1029	0.64	5:15 to 6:15	1280	0.8	1280	0.8
148	Massachusetts Ave at Westbard Ave	Bethesda/Chevy Chase	03/04/04	TH	1600	7:45 to 8:45	1276	0.8	5:15 to 6:15	1045	0.65	1276	0.8
149	Great Seneca Hwy at Quince Orchard Rd	Gaithersburg City	09/26/00	T	1450	7:00 to 8:00	1275	0.88	5:15 to 6:15	1261	0.87	1275	0.88
150	Great Seneca Hwy at Middlebrook Rd	Germentown West	05/13/03	T	1450	7:00 to 8:00	950	0.66	5:45 to 6:45	1274	0.88	1274	0.88
151	Midcounty Hwy at Goshen Rd	Montgomery Village/Airpark	09/17/02	T	1450	7:00 to 8:00	1273	0.88	5:15 to 6:15	1263	0.87	1273	0.88

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Appendix I: Critical Lane Volumes

152	East-West Hwy at Meadowbrook Ln	02/13/02	W	1600	8:30 to 9:30	1091	0.68	5:00 to 6:00	1268	0.79	1268	0.79
153	Montrose Rd at Falls Rd	06/04/02	T	1475	8:00 to 9:00	1026	0.7	4:45 to 5:45	1268	0.86	1268	0.86
154	Montrose Rd at Seven Locks Rd	05/30/02	TH	1475	8:00 to 9:00	1260	0.75	4:45 to 5:45	1032	0.79	1260	0.85
155	Randolph Rd at Kemp Mill Rd	01/15/03	W	1600	7:30 to 8:30	1130	0.81	5:00 to 6:00	1256	0.79	1256	0.79
156	Germanatown Rd at Dawson Farm Rd	02/14/02	TH	1450	7:15 to 8:15	1244	0.86	5:45 to 6:45	1108	0.76	1244	0.86
157	Pleasant/Shady-Grove/1370	04/12/00	W	1800	7:30 to 8:30	1243	0.69	6:00 to 7:00	1064	0.59	1243	0.69
158	New Hampshire Ave at MD 108	02/12/03	W	1400	7:45 to 8:45	1240	0.89	5:00 to 6:00	1171	0.84	1240	0.89
159	Laytonsville Rd at Brink/Sundown	01/17/02	TH	1400	7:00 to 8:00	1221	0.87	5:00 to 6:00	1237	0.88	1237	0.88
160	Georgia Ave at Glenallen Ave	01/09/03	TH	1800	7:15 to 8:15	1085	0.6	5:00 to 6:00	1232	0.68	1232	0.68
161	Rockville-Pk/Twinbrook/Rollins	03/20/03	TH	1500	8:00 to 9:00	1010	0.67	4:30 to 5:30	1228	0.82	1228	0.82
162	Georgia Ave at Wayne Ave	11/18/03	T	1800	8:00 to 9:00	1225	0.68	5:15 to 6:15	1210	0.67	1225	0.68
163	Georgia Ave at Blueridge	05/29/03	TH	1800	7:30 to 8:30	1222	0.68	4:45 to 5:45	1171	0.65	1222	0.68
164	Georgia Ave at August Dr	11/19/03	W	1600	8:15 to 9:15	1221	0.76	4:45 to 5:45	1002	0.63	1221	0.76
165	Shady Grove Rd at Oakmont	12/04/01	T	1475	7:30 to 8:30	1220	0.83	4:45 to 5:45	1081	0.73	1220	0.83
166	Arlington Rd at Elm St	04/17/03	TH	1800	8:00 to 9:00	863	0.48	4:45 to 5:45	1220	0.68	1220	0.68
167	Frederick Rd at Darnestown-Germantown Rd	12/04/02	W	1450	7:30 to 8:30	1217	0.84	4:45 to 5:45	1495	1.03	1217	0.84
168	University Blvd at Amherst Ave	06/05/03	TH	1800	8:00 to 9:00	716	0.4	5:00 to 6:00	1214	0.67	1214	0.67
169	Goshen Rd at Centerway Rd	09/19/02	TH	1450	7:30 to 8:30	1214	0.84	5:15 to 6:15	1132	0.78	1214	0.84
170	MD 118 at Crystal Rock Dr	02/12/02	T	1450	7:00 to 8:00	1035	0.71	5:00 to 6:00	1212	0.84	1212	0.84
171	River Rd at Brookside/Ridgefield	10/31/02	TH	1600	8:00 to 9:00	1206	0.75	5:00 to 6:00	1024	0.64	1206	0.75
172	Layhill Rd at Belpre/Bonifant	01/08/03	W	1500	7:30 to 8:30	1205	0.8	5:15 to 6:15	1143	0.76	1205	0.8
173	Twinbrook Pkwy at Fishers Ln	03/20/03	TH	1800	8:30 to 9:30	754	0.42	4:30 to 5:30	1204	0.67	1204	0.67
174	Darnestown-Germantown Rd at Middlebrook	03/20/03	TH	1450	7:15 to 8:15	1089	0.75	5:30 to 6:30	1195	0.82	1195	0.82
175	Shady Grove Rd at Metro (S)	12/04/01	T	1475	7:30 to 8:30	990	0.67	4:30 to 5:30	1192	0.81	1192	0.81
176	Georgia Ave at King William Dr	12/09/03	T	1475	7:45 to 8:45	1192	0.81	5:15 to 6:15	1095	0.74	1192	0.81
177	Connecticut Ave at Weller Rd	04/24/03	TH	1600	7:00 to 8:00	1189	0.74	5:00 to 6:00	1182	0.74	1189	0.74
178	New Hampshire Ave at Wolf	01/31/01	W	1500	7:30 to 8:30	1166	0.78	4:45 to 5:45	1189	0.79	1189	0.79
179	Woodfield Rd at Sweepstakes Rd	12/04/03	TH	1450	7:30 to 8:30	1128	0.78	5:15 to 6:15	1188	0.82	1188	0.82
180	Georgia Ave at Urbana Ln	11/19/03	W	1800	7:30 to 8:30	1178	0.65	5:45 to 6:45	1137	0.63	1178	0.65
181	Fenton St at Burlington Ave	11/06/03	TH	1800	8:00 to 9:00	777	0.43	4:45 to 5:45	1178	0.65	1178	0.65
182	Fenton St at Silver Spring Ave	05/28/03	W	1800	8:00 to 9:00	782	0.43	5:00 to 6:00	1175	0.65	1175	0.65
183	Rockville Pk at Grosvenor/Beach	12/06/01	TH	1550	7:45 to 8:45	1174	0.76	5:00 to 6:00	1008	0.65	1174	0.76
184	Georgia Ave at 16th St	05/21/03	W	1600	7:45 to 8:45	680	0.43	5:00 to 6:00	1173	0.73	1173	0.73
185	E Randolph Rd at Old Columbia Pike	12/04/02	W	1500	7:45 to 8:45	1171	0.78	5:30 to 6:30	1012	0.67	1171	0.78
186	MD 355 at Halpine	03/20/03	TH	1500	8:15 to 9:15	1096	0.73	5:00 to 6:00	1153	0.77	1153	0.77
187	Rockville Pike at Bou Ave	03/20/03	TH	1550	8:00 to 9:00	1102	0.71	5:00 to 6:00	1153	0.74	1153	0.74
188	Randolph Rd at Maple Ave	02/01/00	T	1550	7:45 to 8:45	980	0.63	4:30 to 5:30	1149	0.74	1149	0.74

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Appendix I: Critical Lane Volumes

189	Georgia Ave at Spring St	Silver Spring/Takoma Park	05/22/03	TH	1600	7:45 to 8:45	1149	0.72	5:00 to 6:00	1089	0.68	1149	0.72
190	Bradley Blvd at Arlington Rd	Bethesda CBD	04/10/03	TH	1800	8:00 to 9:00	1041	0.58	5:00 to 6:00	1146	0.64	1146	0.64
191	Georgia Ave at Layhill Rd	Glenmont	01/09/03	TH	1800	7:30 to 8:30	1109	0.62	5:30 to 6:30	1143	0.64	1143	0.64
192	Parklawn Dr at Twinbrook Pkwy	Twinbrook	03/20/03	TH	1800	8:30 to 9:30	1057	0.59	5:00 to 6:00	1131	0.63	1131	0.63
193	Georgia Ave at Prince Phillip/Queen Eliz	Olney	11/18/03	T	1475	7:00 to 8:00	1123	0.76	4:45 to 5:45	1100	0.75	1123	0.76
194	Old Georgetown Rd at Nicholson/Tilden	White Flint	05/22/03	TH	1800	8:00 to 9:00	821	0.46	5:00 to 6:00	1119	0.62	1119	0.62
195	Cherry Hill Rd at Prosperity Dr	Fairland/White Oak	12/17/02	T	1500	7:45 to 8:45	948	0.63	4:45 to 5:45	1111	0.74	1111	0.74
196	Old Georgetown Rd at Rock Spring Dr	North Bethesda	02/24/04	T	1550	7:45 to 8:45	1029	0.66	5:00 to 6:00	1107	0.71	1107	0.71
197	Georgia Ave at Hathaway Dr	Kensington/Wheaton	04/09/03	W	1600	7:00 to 8:00	1107	0.69	5:15 to 6:15	939	0.59	1107	0.69
198	Randolph Rd at Tivoli	Kensington/Wheaton	01/09/03	TH	1600	7:15 to 8:15	1107	0.69	5:00 to 6:00	889	0.56	1107	0.69
199	East-West Hwy at Pearl St	Bethesda CBD	04/08/03	T	1800	8:00 to 9:00	1104	0.61	5:00 to 6:00	899	0.5	1104	0.61
200	Nicholson Ln at Nebel St	North Bethesda	05/21/03	W	1550	8:00 to 9:00	953	0.61	5:00 to 6:00	1103	0.71	1103	0.71
201	New Hampshire Ave at Spencerville Rd	Cloverly	04/24/03	TH	1475	7:15 to 8:15	883	0.6	5:00 to 6:00	1103	0.75	1103	0.75
202	MD 108 at Norwood Rd	Olney	02/12/03	T	1475	7:00 to 8:00	1101	0.75	5:30 to 6:30	982	0.67	1101	0.75
203	Woodmont Ave at Battery Ln	Bethesda CBD	04/22/03	T	1800	8:00 to 9:00	1097	0.61	5:00 to 6:00	1083	0.6	1097	0.61
204	Rockville Pk at Security Ln	North Bethesda	06/10/03	T	1550	8:30 to 9:30	1094	0.71	4:15 to 5:15	1135	0.73	1094	0.71
205	Wayne Ave at Cedar St	Silver Spring/Takoma Park	06/05/03	TH	1600	7:45 to 8:45	1094	0.68	5:00 to 6:00	827	0.52	1094	0.68
206	Twinbrook Pkwy at Chapman Ave	Rockville City	03/20/03	TH	1500	8:15 to 9:15	763	0.51	5:00 to 6:00	1086	0.72	1086	0.72
207	Falls Rd at Kersey	Rockville City	10/18/01	TH	1500	8:30 to 9:30	1068	0.71	5:00 to 6:00	1009	0.67	1068	0.71
208	Deer Park Dr at Railroad Ave	Derwood	05/06/03	T	1475	7:15 to 8:15	1060	0.72	5:00 to 6:00	1034	0.7	1060	0.72
209	East Diamond Ave at Summit Ave	Gaithersburg City	04/24/03	TH	1450	7:00 to 8:00	840	0.58	5:00 to 6:00	1051	0.72	1051	0.72
210	Montgomery Ave at Waverly St	Bethesda CBD	06/03/03	T	1800	8:00 to 9:00	703	0.39	4:45 to 5:45	1051	0.58	1051	0.58
211	Philadelphia Ave (MD 410) at Maple Ave	Silver Spring/Takoma Park	05/27/03	T	1600	7:30 to 8:30	688	0.43	5:00 to 6:00	1049	0.66	1049	0.66
212	Fenton St at Sligo Ave	Silver Spring CBD	05/20/03	T	1800	8:00 to 9:00	726	0.4	5:00 to 6:00	1047	0.58	1047	0.58
213	Montgomery Ln at Pearl St	Bethesda CBD	04/15/03	T	1800	8:00 to 9:00	655	0.36	4:45 to 5:45	1046	0.58	1046	0.58
214	Georgia Ave at Reedie Dr	Wheaton CBD	06/03/03	T	1800	7:45 to 8:45	1042	0.58	5:00 to 6:00	1009	0.56	1042	0.58
215	Arlington Rd at Bethesda Ave	Bethesda CBD	04/09/03	T	1800	8:00 to 9:00	841	0.47	5:00 to 6:00	1039	0.58	1039	0.58
216	355-Somerset Ter	Friendship Heights	09/20/00	W	1800	7:30 to 8:30	984	0.55	4:45 to 5:45	1039	0.58	1039	0.58
217	Clopper Rd at Hopkins Ln	Germentown West	11/19/03	W	1450	6:45 to 7:45	1039	0.72	4:45 to 5:45	751	0.52	1039	0.72
218	River Rd at Willard Ln/Greenway	Bethesda/Chevy Chase Montgomery	06/18/03	W	1600	8:00 to 9:00	1038	0.65	4:45 to 5:45	797	0.5	1038	0.65
219	Woodfield Rd at Muncaster Mill Rd	Village/Airpark	09/17/02	T	1450	7:45 to 8:45	1038	0.72	5:00 to 6:00	1127	0.78	1038	0.72
220	Clopper Rd at Kingsview Rd	Germentown West	02/05/04	TH	1450	7:30 to 8:30	962	0.66	5:15 to 6:15	1037	0.72	1037	0.72
221	University Blvd at Veirs Mill Rd	Wheaton CBD	06/05/03	TH	1800	7:30 to 8:30	926	0.51	5:00 to 6:00	1036	0.58	1036	0.58
222	Layhill Rd at Glenallen Ave	Kensington/Wheaton	01/14/03	T	1600	7:15 to 8:15	845	0.53	5:30 to 6:30	1036	0.65	1036	0.65
223	Veirs Mill Rd at Reedie Dr	Wheaton CBD	06/05/03	TH	1800	7:30 to 8:30	856	0.48	5:00 to 6:00	1025	0.57	1025	0.57
224	Georgia Ave at Sligo Ave	Silver Spring CBD	11/06/03	TH	1800	7:00 to 8:00	828	0.46	4:45 to 5:45	1022	0.57	1022	0.57
225	Goshen Rd at Snouffer School/Wightman	Montgomery Village/Airpark	09/18/02	W	1450	7:45 to 8:45	1015	0.7	5:00 to 6:00	1164	0.8	1015	0.7
226	Philadelphia Ave (MD 410) at Carroll Ave	Silver Spring/Takoma Park	06/19/03	TH	1600	8:00 to 9:00	689	0.43	5:00 to 6:00	1006	0.63	1006	0.63

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227	Piney Branch Rd at Flower Ave	Silver Spring/Takoma Park	07/18/02	TH	1600	7:45 to 8:45	996	0.62	5:45 to 6:45	1115	0.7	996	0.62
228	Falls Rd at Bells Mill Rd	Potomac	05/29/03	TH	1475	7:30 to 8:30	885	0.6	5:15 to 6:15	995	0.67	995	0.67
229	Georgia Ave at Aspen Hill Rd	Aspen Hill	03/22/00	W	1500	7:30 to 8:30	993	0.66	5:00 to 6:00	1061	0.71	993	0.66
230	Key West Ave at Shady Grove Rd	R&D Village	10/29/02	T	1475	8:00 to 9:00	1222	0.83	4:30 to 5:30	990	0.67	990	0.67
231	Randolph Rd at Nebel St	North Bethesda	05/22/03	TH	1550	7:45 to 8:45	667	0.43	4:45 to 5:45	988	0.64	988	0.64
232	MD 108 at Spartan	Olney	06/21/01	TH	1475	7:30 to 8:30	988	0.67	5:15 to 6:15	1287	0.87	988	0.67
233	Montgomery Village Ave at Centenway Rd	Montgomery Village/Airpark	09/18/02	W	1450	7:30 to 8:30	886	0.61	5:15 to 6:15	1021	0.7	986	0.68
234	Fenton St at Wayne Ave	Silver Spring CBD	11/18/03	T	1800	8:00 to 9:00	819	0.46	5:00 to 6:00	978	0.54	978	0.54
235	Veirs Mill Rd at Robindale	Aspen Hill	09/12/01	W	1500	8:15 to 9:15	976	0.65	5:15 to 6:15	1185	0.79	976	0.65
236	Georgia Ave at Bonifant St	Silver Spring CBD	11/18/03	T	1800	7:45 to 8:45	976	0.54	5:15 to 6:15	918	0.51	976	0.54
237	Georgia Ave at Thayer St	Silver Spring CBD	11/18/03	T	1800	7:15 to 8:15	882	0.49	4:00 to 5:00	974	0.54	974	0.54
238	New Hampshire Ave at Midland Dr	Fairland/White Oak	02/07/01	TH	1500	7:15 to 8:15	972	0.65	5:15 to 6:15	973	0.65	973	0.65
239	Seven Locks Rd and Wootton Pkwy	Rockville City	06/06/02	TH	1500	8:00 to 9:00	970	0.65	4:45 to 5:45	910	0.61	970	0.65
240	Wisconsin Ave at Bethesda/Willow	Bethesda CBD	06/05/03	TH	1800	7:30 to 8:30	968	0.54	5:15 to 6:15	929	0.52	968	0.54
241	Father Hurley Blvd at Middlebrook Rd	German town West	03/11/03	T	1450	7:00 to 8:00	968	0.67	5:30 to 6:30	956	0.66	968	0.67
242	Jones Bridge Rd at Platt Ridge Dr	Bethesda/Chevy Chase	11/19/02	T	1600	7:45 to 8:45	773	0.48	4:00 to 5:00	963	0.6	963	0.6
243	Wisconsin Ave at Leland St	Bethesda CBD	09/09/03	T	1800	8:00 to 9:00	917	0.51	5:15 to 6:15	961	0.53	961	0.53
244	Georgia Ave at Hewitt Ave	Aspen Hill	09/20/01	TH	1500	7:15 to 8:15	960	0.64	5:00 to 6:00	1145	0.76	960	0.64
245	Muncaster Mill Rd at Needwood Rd	Rural	01/17/01	W	1400	7:45 to 8:45	955	0.68	5:00 to 6:00	939	0.67	955	0.68
246	Georgia Ave at Cameron St	Silver Spring CBD	09/30/03	T	1800	8:15 to 9:15	900	0.5	4:45 to 5:45	953	0.53	953	0.53
247	New Hampshire Ave at Bonifant/Good Hope	Cloverly	09/26/00	T	1475	7:00 to 8:00	1106	0.75	5:15 to 6:15	948	0.64	948	0.64
248	16th St at 2nd Ave/Elkhart	Silver Spring/Takoma Park	06/05/02	TH	1600	7:00 to 8:00	851	0.53	4:45 to 5:45	947	0.59	947	0.59
249	University at Caddington/Gable	Kensington/Wheaton	12/04/03	TH	1600	8:00 to 9:00	896	0.56	5:15 to 6:15	940	0.59	940	0.59
250	Georgia Ave at Gold Mine Rd	Olney	05/24/01	TH	1475	7:15 to 8:15	938	0.64	5:00 to 6:00	845	0.57	938	0.64
251	Bradley Blvd at Wilson Ln	Bethesda/Chevy Chase	06/10/03	T	1600	8:15 to 9:15	816	0.51	5:15 to 6:15	933	0.58	933	0.58
252	Georgia Ave at International	Aspen Hill	12/18/03	TH	1500	7:30 to 8:30	931	0.62	4:30 to 5:30	1012	0.67	931	0.62
253	Great Seneca Hwy at Wisteria Dr	German town West	05/14/03	W	1450	7:30 to 8:30	729	0.5	5:15 to 6:15	930	0.64	930	0.64
254	Twinbrook Pkwy at Ardennes Ave	Twinbrook	09/11/03	TH	1800	7:45 to 8:45	926	0.51	5:15 to 6:15	682	0.38	926	0.51
255	River Rd at Counselman	Potomac	10/03/02	TH	1475	7:45 to 8:45	1417	0.96	5:00 to 6:00	926	0.63	926	0.63
256	Midcounty Hwy at Woodfield/Saybrooke	Gaithersburg City	09/12/02	TH	1450	7:15 to 8:15	925	0.64	5:30 to 6:30	867	0.6	925	0.64
257	MD 355 at Tuckerman (S)	Grosvenor	03/25/03	TH	1800	7:45 to 8:45	924	0.51	5:00 to 6:00	838	0.47	924	0.51
258	Piney Branch Rd at Sligo Ave/Hilltop	Silver Spring/Takoma Park	05/08/03	TH	1600	7:30 to 8:30	922	0.58	4:30 to 5:30	917	0.57	922	0.58
259	University Blvd at Grandview Ave	Wheaton CBD	06/04/03	W	1800	7:00 to 8:00	719	0.4	4:30 to 5:30	914	0.51	914	0.51
260	Olney-Sandy Spring Rd at Doctor Bird Rd	Olney	06/12/03	TH	1475	7:00 to 8:00	831	0.56	5:15 to 6:15	904	0.61	904	0.61

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Appendix I: Critical Lane Volumes

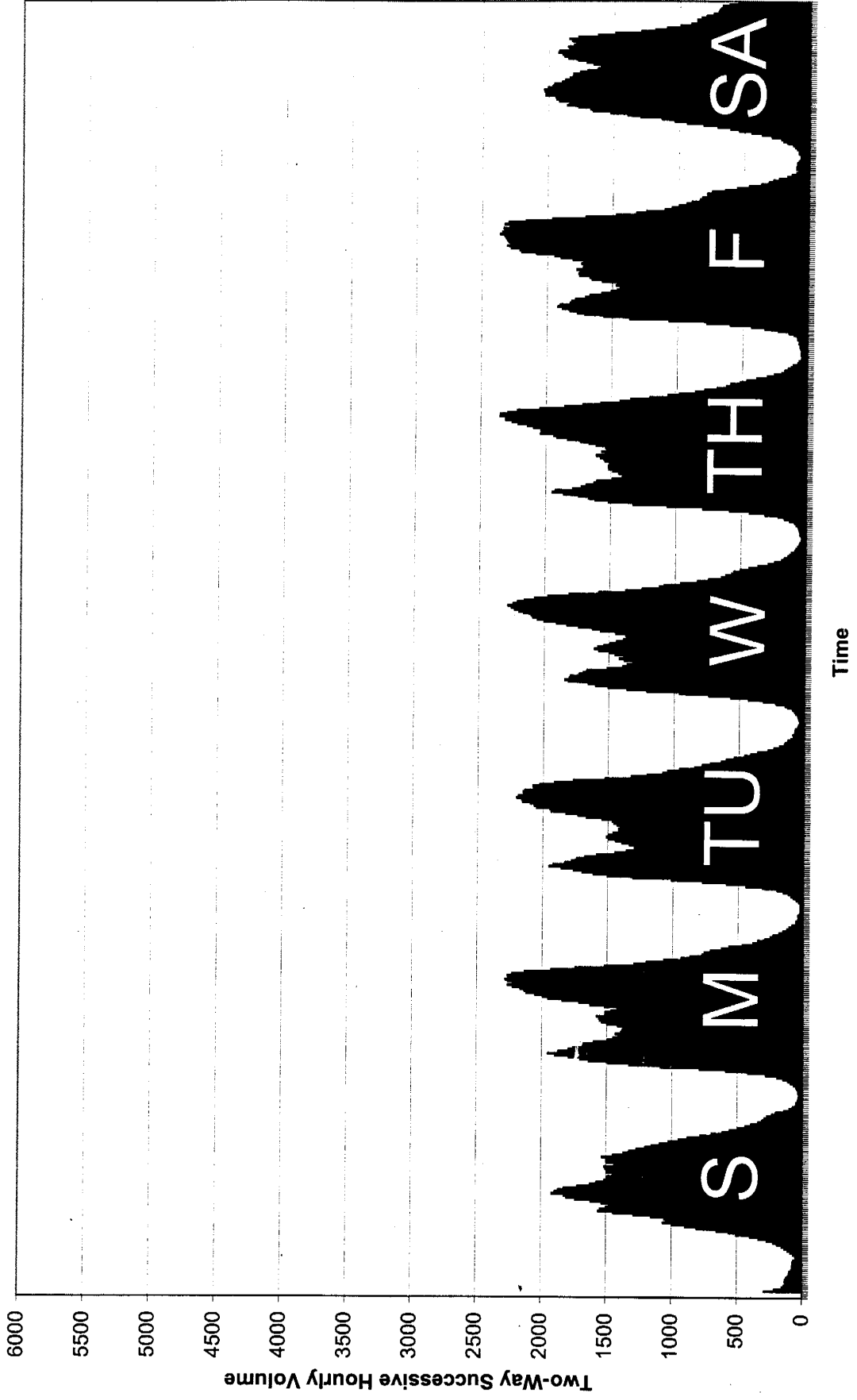
261	Piney Branch Rd at Carroll Ave	Silver Spring/Takoma Park	09/16/03	T	1600	7:30 to 8:30	900	0.56	5:00 to 6:00	895	0.56	900	0.56
262	Darnestown-Germantown Rd at Clopper Rd	Germantown West	11/18/03	T	1450	7:15 to 8:15	880	0.61	5:00 to 6:00	899	0.62	899	0.62
263	Darnestown-Germantown Rd at Wisteria Dr	Germantown Town Center	03/13/03	TH	1450	8:00 to 9:00	894	0.62	5:15 to 6:15	1356	0.94	894	0.62
264	Dale Dr at Wayne Ave	Silver Spring/Takoma Park	05/27/03	T	1600	8:00 to 9:00	893	0.56	5:00 to 6:00	846	0.53	893	0.56
265	MD 355 at Elm/Waverly	Bethesda CBD	04/22/03	T	1800	8:00 to 9:00	888	0.49	5:00 to 6:00	880	0.49	888	0.49
266	MD 355 at Willard/Wisconsin Circle	Friendship Heights	06/19/03	TH	1800	7:15 to 8:15	716	0.4	4:30 to 5:30	885	0.49	885	0.49
267	River Rd at Springfield-KC	Bethesda/Chevy Chase	10/03/02	TH	1600	7:45 to 8:45	1134	0.71	4:00 to 5:00	883	0.55	883	0.55
268	Connecticut Ave at Independence	Aspen Hill	10/08/02	T	1500	7:30 to 8:30	1063	0.71	5:45 to 6:45	880	0.59	880	0.59
269	Mont. Village Ave at Chris/Lost Knife	Montgomery	11/15/00	W	1450	7:30 to 8:30	877	0.6	5:00 to 6:00	1159	0.8	877	0.6
270	Bradley Blvd at Hill/Leland	Village/Airpark	04/01/03	T	1800	7:45 to 8:45	752	0.42	5:00 to 6:00	875	0.49	875	0.49
271	Woodmont Ave at Cordell Ave	Bethesda CBD	04/09/03	W	1800	8:00 to 9:00	790	0.44	5:00 to 6:00	873	0.49	873	0.49
272	Piney Branch Rd at Dale Dr/Devon Rd	Silver Spring/Takoma Park	12/18/01	T	1600	8:15 to 9:15	873	0.55	5:00 to 6:00	1067	0.67	873	0.55
273	Clopper Rd at Great Seneca Hwy	Germantown West	09/20/00	W	1450	7:00 to 8:00	1001	0.69	5:00 to 6:00	872	0.6	872	0.6
274	Fenton St at Bonifant St	Silver Spring CBD	11/18/03	T	1800	8:30 to 9:30	738	0.41	4:45 to 5:45	871	0.48	871	0.48
275	16th St at Spring St	Silver Spring/Takoma Park	05/28/03	W	1600	7:15 to 8:15	839	0.52	5:00 to 6:00	871	0.54	871	0.54
276	Darnestown-Germantown Rd at Observation	Germantown East	12/03/02	T	1450	8:15 to 9:15	863	0.6	5:00 to 6:00	945	0.65	863	0.6
277	Wisconsin Ave at Battery/Rosedale	Bethesda CBD	06/11/03	W	1800	7:30 to 8:30	785	0.44	6:00 to 7:00	858	0.48	858	0.48
278	Frederick Ave at Plummer Dr	Germantown East	01/07/04	W	1450	7:15 to 8:15	1095	0.76	5:15 to 6:15	855	0.59	855	0.59
279	East-West Hwy at Waverly	Bethesda CBD	06/04/03	W	1800	8:00 to 9:00	847	0.47	5:30 to 6:30	694	0.39	847	0.47
280	University Blvd at Inwood	Kensington/Wheaton	09/09/03	T	1600	7:30 to 8:30	577	0.36	5:30 to 6:30	846	0.53	846	0.53
281	Colesville Rd at 2nd/Wayne	Silver Spring CBD	11/06/03	TH	1800	8:15 to 9:15	844	0.47	4:45 to 5:45	661	0.37	844	0.47
282	Darnestown-Germantown Rd at Richter Farm	Germantown West	11/15/00	W	1450	7:00 to 8:00	841	0.58	4:45 to 5:45	774	0.53	841	0.58
283	University Blvd at East Ave	Wheaton CBD	04/25/01	W	1800	8:00 to 9:00	597	0.33	4:30 to 5:30	837	0.47	837	0.47
284	Wisconsin Ave at Montgomery S/S Park Av	Friendship Heights	06/18/03	W	1800	7:30 to 8:30	834	0.46	4:45 to 5:45	618	0.34	834	0.46
285	Muddy Branch Rd at Diamondback Dr	Gaithersburg City	01/15/02	T	1450	8:00 to 9:00	805	0.56	4:45 to 5:45	827	0.57	827	0.57
286	Goshen Rd at Warfield Rd	Montgomery	12/17/02	T	1450	8:15 to 9:15	722	0.5	4:30 to 5:30	826	0.57	826	0.57
287	Wisconsin Ave at Dorset Ave	Village/Airpark	06/19/03	TH	1600	7:45 to 8:45	825	0.52	4:45 to 5:45	777	0.49	825	0.52
288	Darnestown Rd at Seneca Rd (MD 112)	Rural	01/11/00	T	1400	7:15 to 8:15	819	0.59	5:00 to 6:00	489	0.35	819	0.59
289	Old Georgetown Rd at Woodmont Ave	Bethesda CBD	09/09/03	T	1800	8:00 to 9:00	717	0.4	5:15 to 6:15	818	0.45	818	0.45
290	Nicholson Ln at Huff Ct	White Flint	06/11/03	W	1800	8:15 to 9:15	592	0.33	4:45 to 5:45	818	0.45	818	0.45
291	W Diamond Ave at Muddy Branch/Chestnut	Gaithersburg City	09/13/00	W	1450	7:15 to 8:15	660	0.46	4:30 to 5:30	811	0.56	811	0.56
292	Goshen Rd at Girard/Odenhal	Montgomery	12/09/03	T	1450	7:15 to 8:15	795	0.55	5:00 to 6:00	667	0.46	795	0.55
293	Frederick Rd at Odenhal Ave	Village/Airpark	07/18/02	TH	1450	7:30 to 8:30	792	0.55	5:15 to 6:15	1274	0.88	792	0.55
294	Executive Blvd at Nicholson Ln	Gaithersburg City	06/12/03	TH	1800	8:00 to 9:00	784	0.44	4:30 to 5:30	616	0.34	784	0.44
295	Parklawn Dr at Braxfield	White Flint	03/01/01	TH	1550	7:00 to 8:00	784	0.51	4:45 to 5:45	603	0.39	784	0.44
295		North Bethesda											0.51

Appendix I: Critical Lane Volumes

296	Montgomery Village Ave at Apple Ridge Rd	Montgomery	01/16/02	W	1450	8:00 to 9:00	752	0.52	5:00 to 6:00	784	0.54	784	0.54
297	Woodmont Ave at Elm St	Village/Airpark	09/09/03	T	1800	8:30 to 9:30	499	0.28	5:00 to 6:00	777	0.43	777	0.43
298	Quince Orchard Rd at Longdraft Rd	Bethesda CBD	02/20/02	W	1450	7:45 to 8:45	776	0.54	5:15 to 6:15	1082	0.75	776	0.54
299	Wilson Ln at Whittier Blvd	Gaithersburg City	02/24/00	TH	1600	7:15 to 8:15	774	0.48	5:30 to 6:30	770	0.48	774	0.48
300	Great Seneca Hwy at Darnestown Rd	Bethesda/Chevy Chase	12/10/03	W	1475	8:00 to 9:00	754	0.51	5:30 to 6:30	566	0.38	754	0.51
301	Democracy Blvd at Falls Rd/S Glen Rd	R&D Village	12/09/03	T	1475	7:30 to 8:30	737	0.5	5:15 to 6:15	638	0.43	737	0.5
302	Darnestown Rd at Muddy Branch Rd	Potomac	06/28/00	W	1475	8:00 to 9:00	1232	0.84	5:00 to 6:00	723	0.49	723	0.49
303	E Randolph Rd at Serpentine Way	North Potomac	12/03/02	T	1500	7:45 to 8:45	713	0.48	4:30 to 5:30	704	0.47	713	0.48
304	Woodmont Ave at Bethesda Ave	Fairland/White Oak	04/08/03	T	1800	8:00 to 9:00	596	0.33	5:00 to 6:00	691	0.38	691	0.38
305	Nicholson Ln at Woodglen	Bethesda CBD	05/21/03	W	1800	7:45 to 8:45	529	0.29	4:45 to 5:45	688	0.38	688	0.38
306	Jones Bridge Rd at Manor Rd	White Flint	11/19/02	T	1600	8:15 to 9:15	679	0.42	4:30 to 5:30	676	0.42	679	0.42
307	East West Hwy at Newell/Blair Mill	Bethesda/Chevy Chase	05/29/03	TH	1800	7:30 to 8:30	546	0.3	5:00 to 6:00	646	0.36	646	0.36
308	Fenton St at Thayer Ave	Silver Spring CBD	05/20/03	T	1800	8:00 to 9:00	534	0.3	5:00 to 6:00	636	0.35	636	0.35
309	East-West Hwy at Chelton	Silver Spring CBD	04/18/02	TH	1800	8:30 to 9:30	619	0.34	5:00 to 6:00	403	0.22	619	0.34
310	Wayne Ave at Ramsey	Bethesda CBD	05/28/03	W	1800	8:00 to 9:00	368	0.2	5:00 to 6:00	585	0.33	585	0.33
311	Spring St at 2nd Ave	Silver Spring CBD	05/20/03	W	1800	8:00 to 9:00	434	0.24	5:00 to 6:00	570	0.32	570	0.32
312	Fenton St at Cameron St	Silver Spring CBD	05/21/03	W	1800	8:00 to 9:00	277	0.15	5:00 to 6:00	532	0.3	532	0.3
313	2nd Ave at Apple Ave/Cameron St	Silver Spring CBD	09/30/03	T	1800	8:30 to 9:30	376	0.21	4:30 to 5:30	487	0.27	487	0.27
314	Bradley Blvd at Goldsboro Rd	Bethesda/Chevy Chase	06/10/03	T	1600	8:15 to 9:15	446	0.28	5:15 to 6:15	464	0.29	464	0.29
315	Woodmont Ave at Montgomery Ln	Bethesda CBD	06/10/03	T	1800	8:00 to 9:00	396	0.22	4:45 to 5:45	461	0.26	461	0.26
316	University Blvd at Midvale	Wheaton CBD	06/04/03	W	1800	8:00 to 9:00	387	0.22	4:00 to 5:00	421	0.23	421	0.23
317	Second St at Fenwick Ln	Silver Spring CBD	05/21/03	W	1800	7:45 to 8:45	204	0.11	4:45 to 5:45	338	0.19	338	0.19
318	Spring St at Cedar/Ellsworth	Silver Spring/Takoma Park	06/11/03	W	1600	8:00 to 9:00	137	0.09	4:45 to 5:45	295	0.18	295	0.18
319	Cedar St at Pershing Ln	Silver Spring CBD	06/04/03	W	1800	8:00 to 9:00	202	0.11	5:00 to 6:00	289	0.16	289	0.16
320	Fenton St at Ellsworth Ln	Silver Spring CBD	06/12/03	TH	1800	8:00 to 9:00	197	0.11	4:45 to 5:45	253	0.14	253	0.14

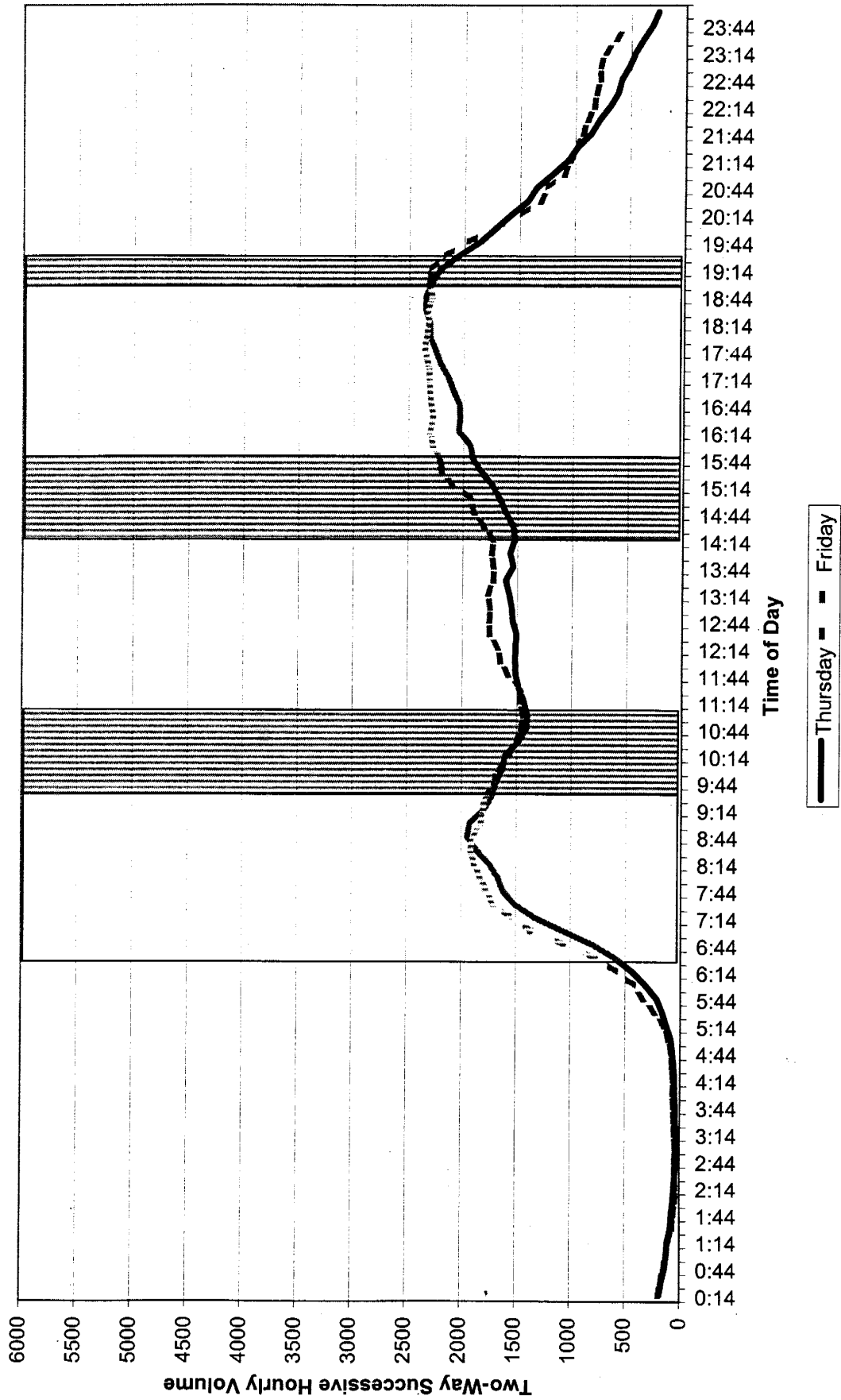
17

MD 108 at MD 97 -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

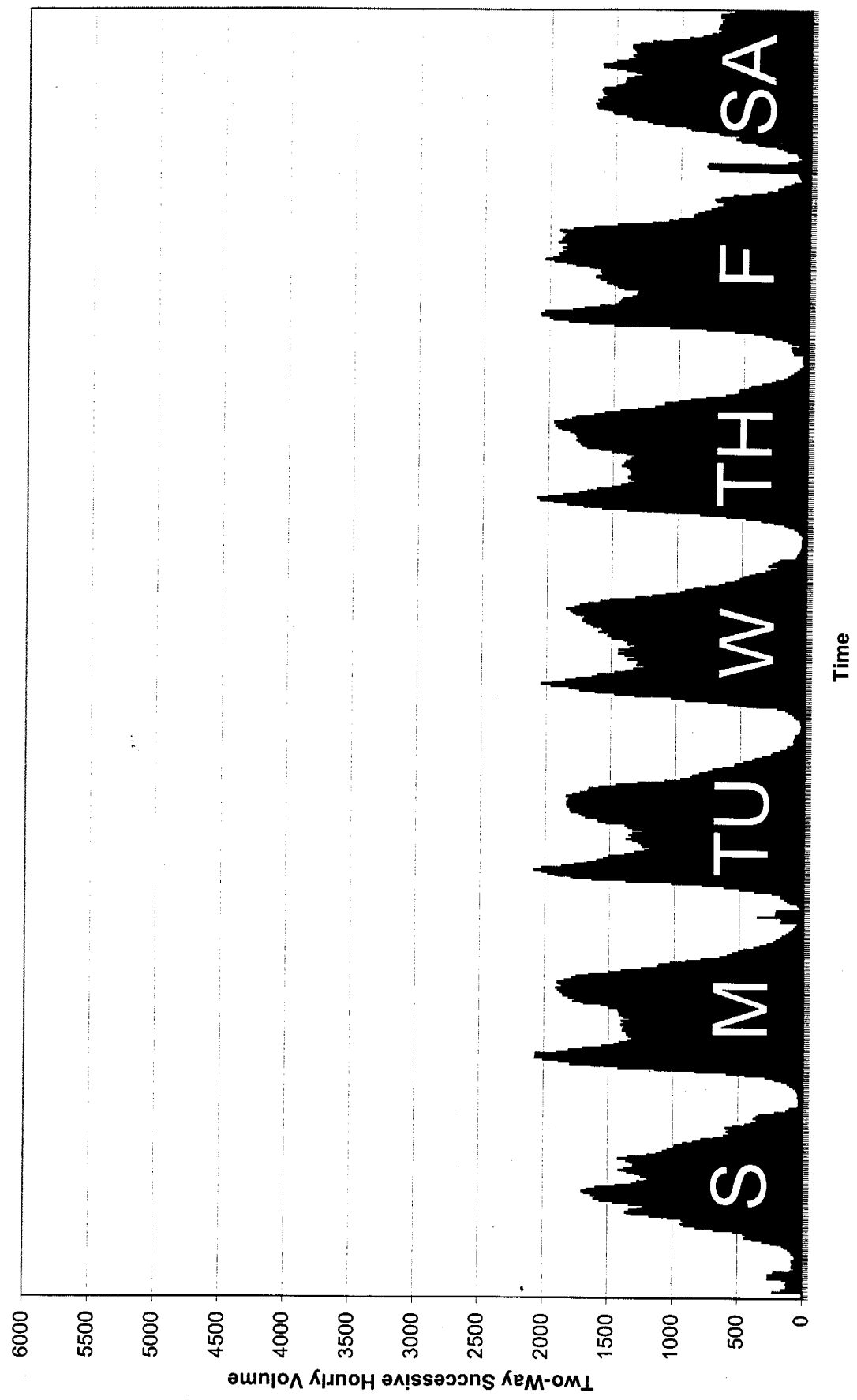


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Figure 5.15: MD 108 at MD 97
Two-Way Successive Hourly Volumes 3/14/02 and 3/15/02

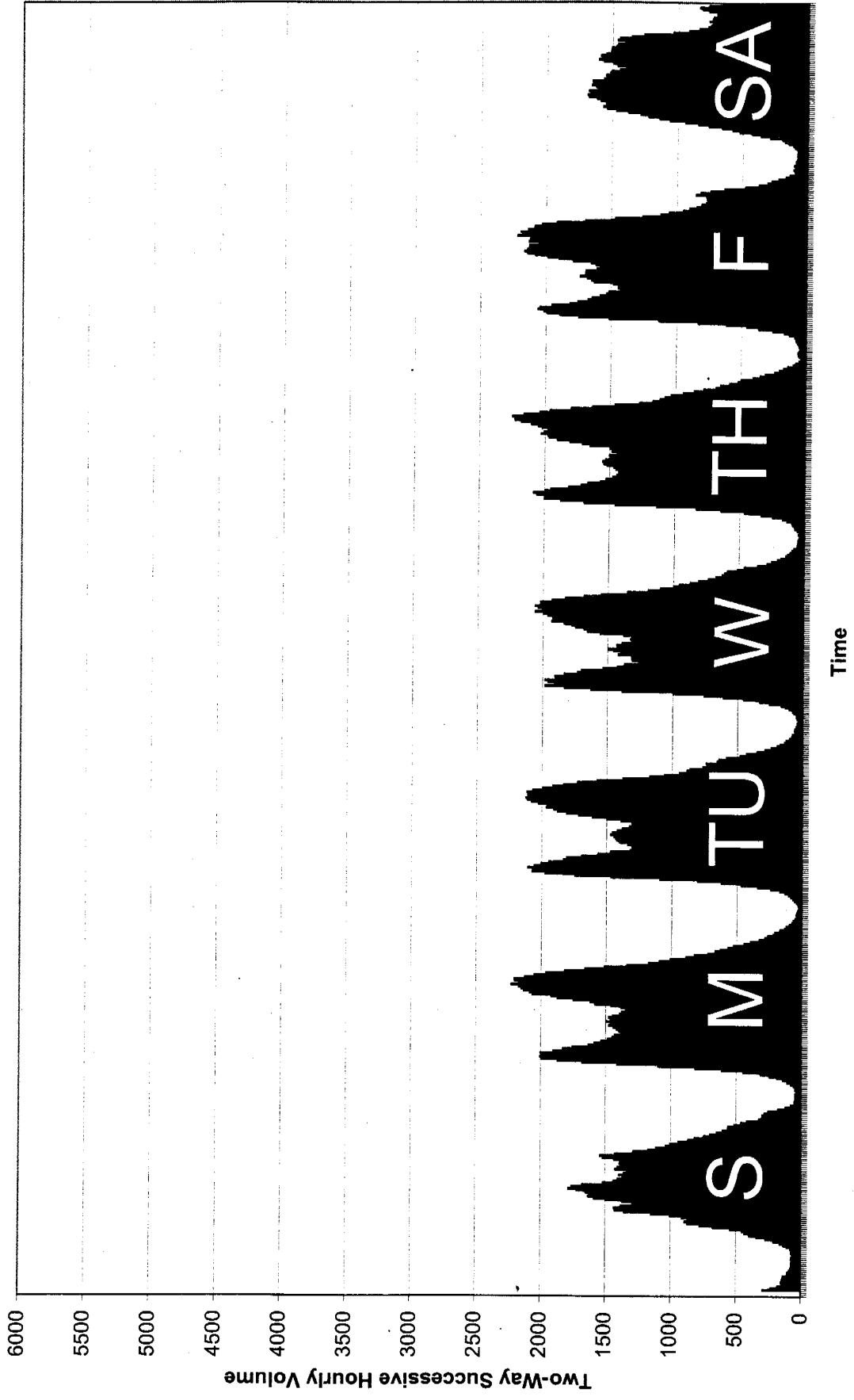


MD 108 at Spartan Dr -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

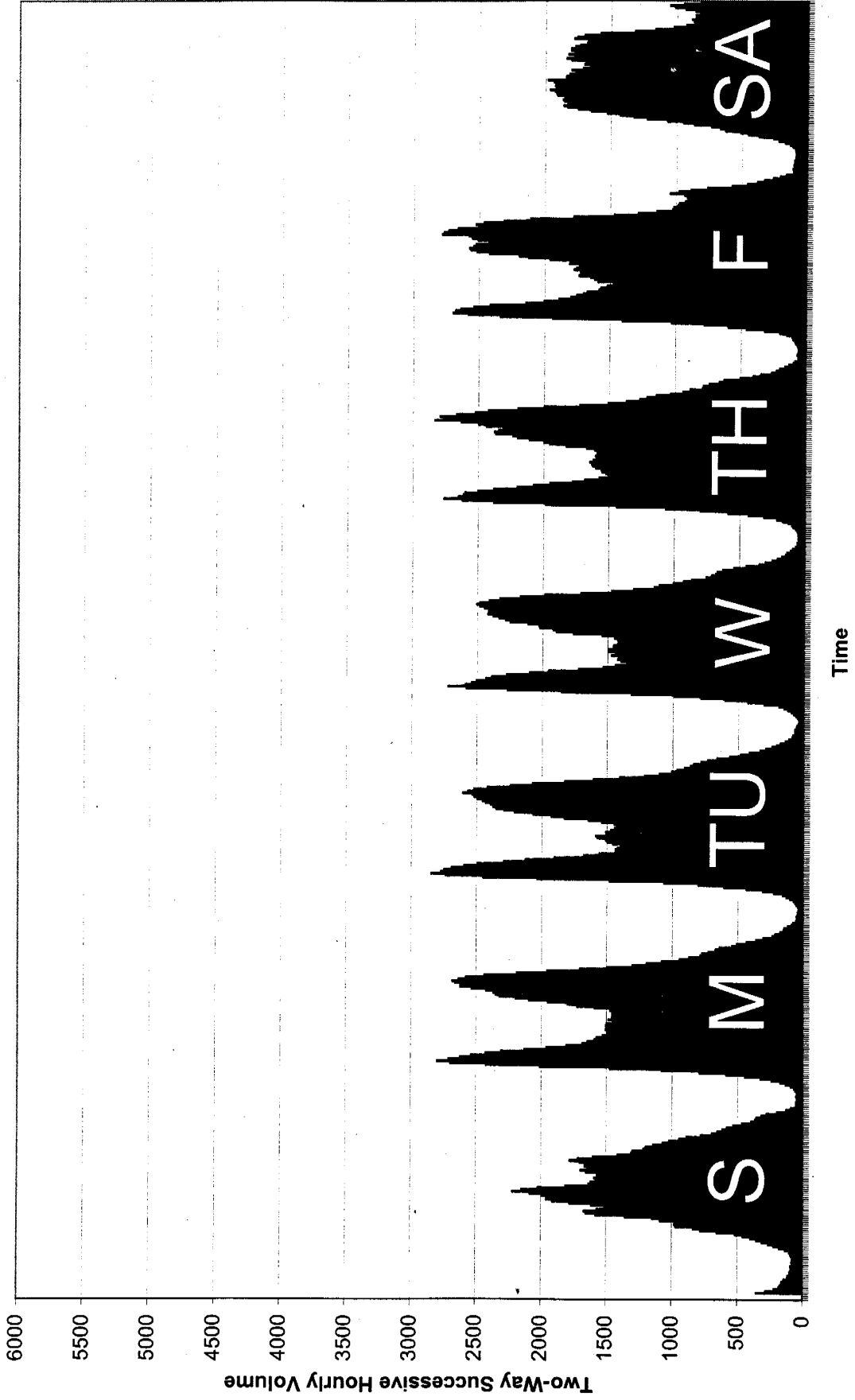


20

MD 108 at Prince Phillip Dr -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

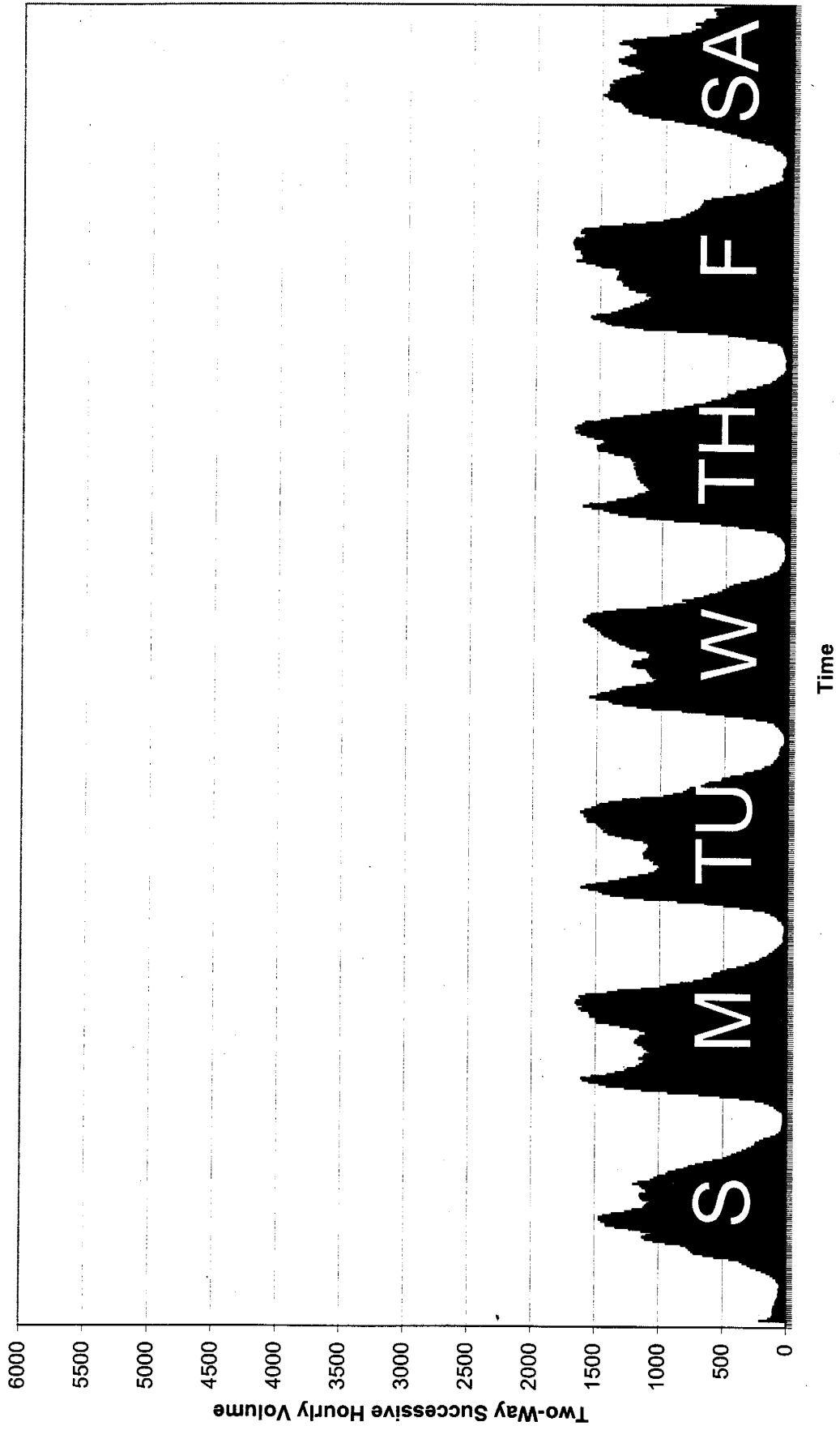


MD 108 at Old Baltimore Rd -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



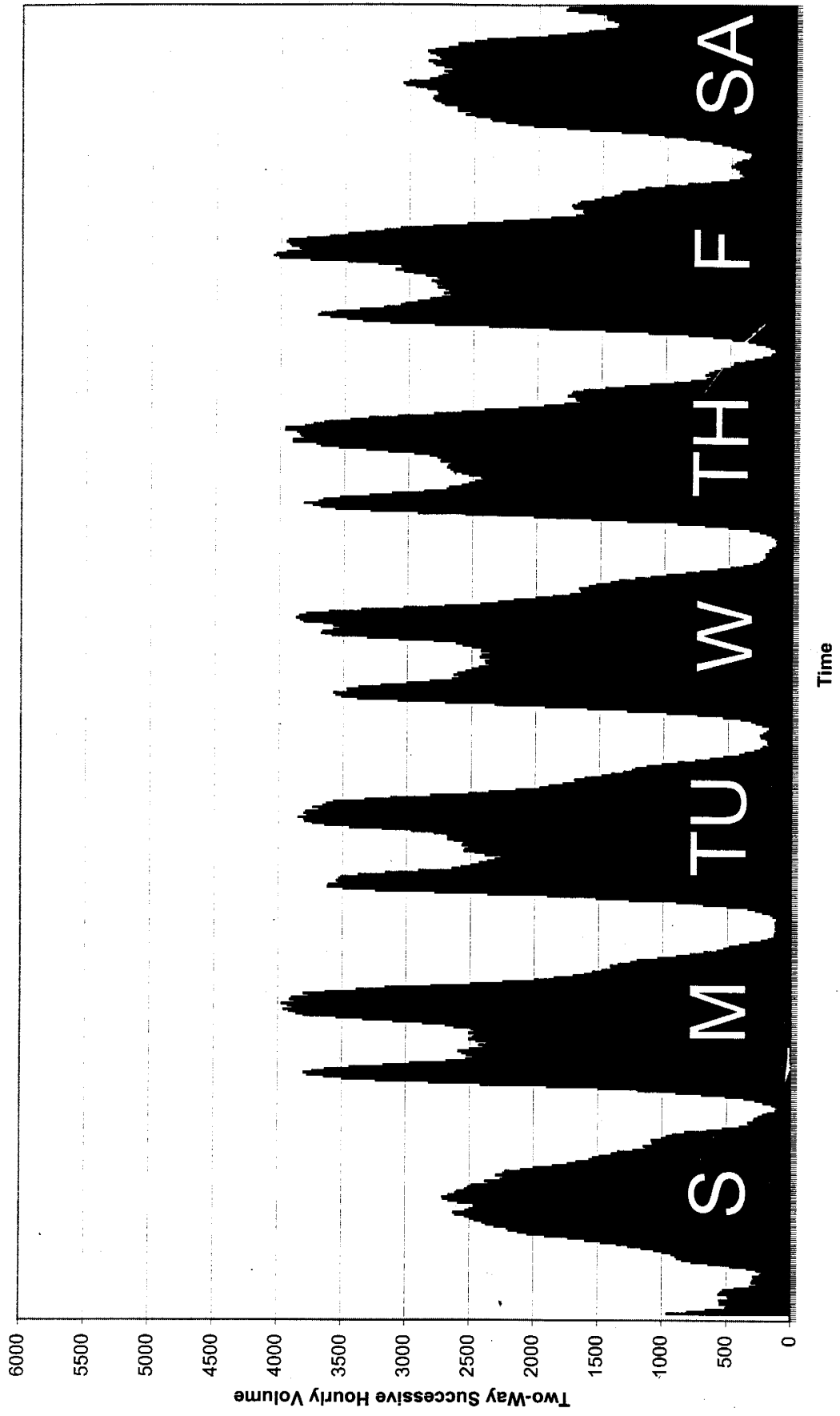
22

MD 108 at Olney Village Mart
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



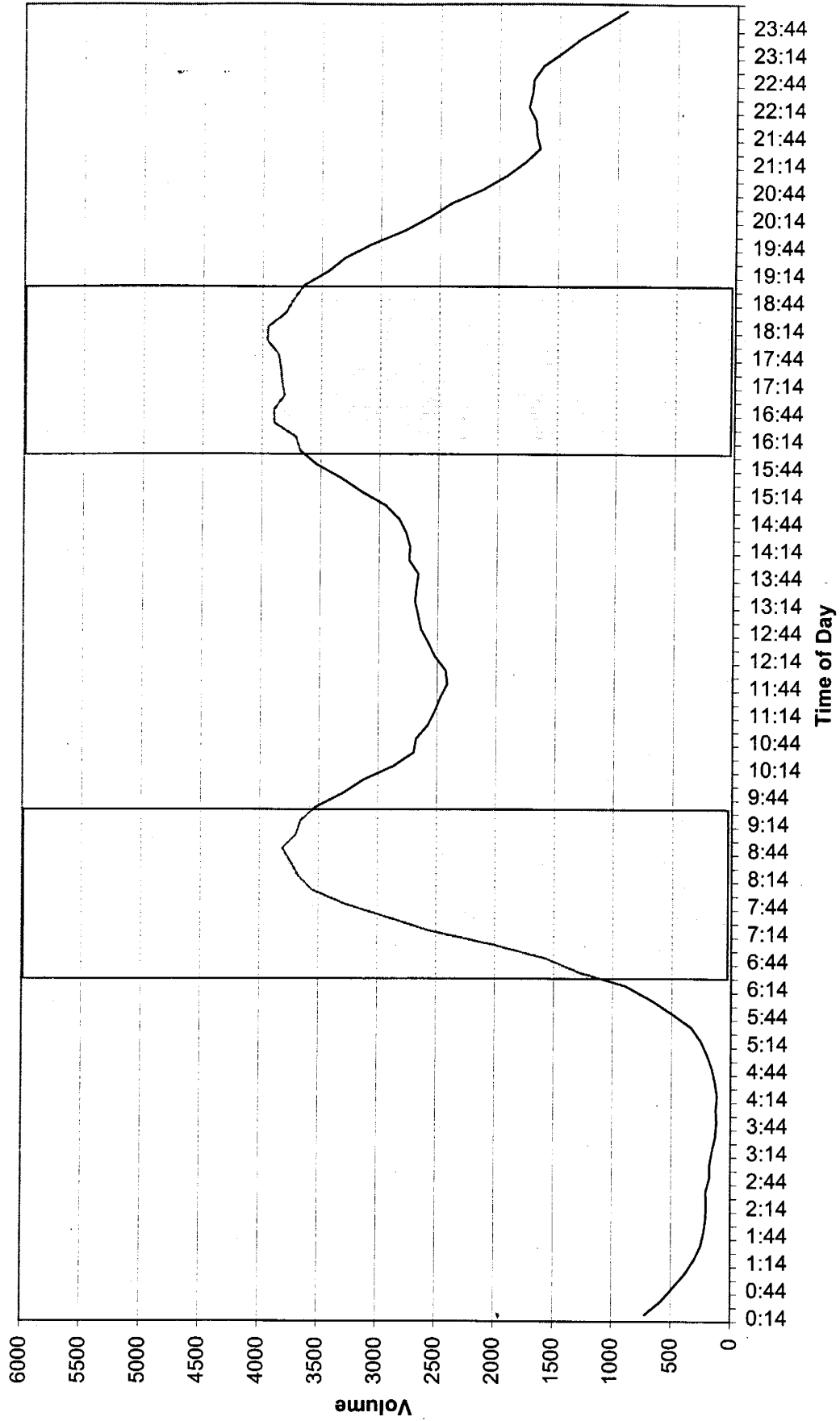
23

Figure 5.9: Connecticut Ave (MD 185) at Jones Bridge Rd
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



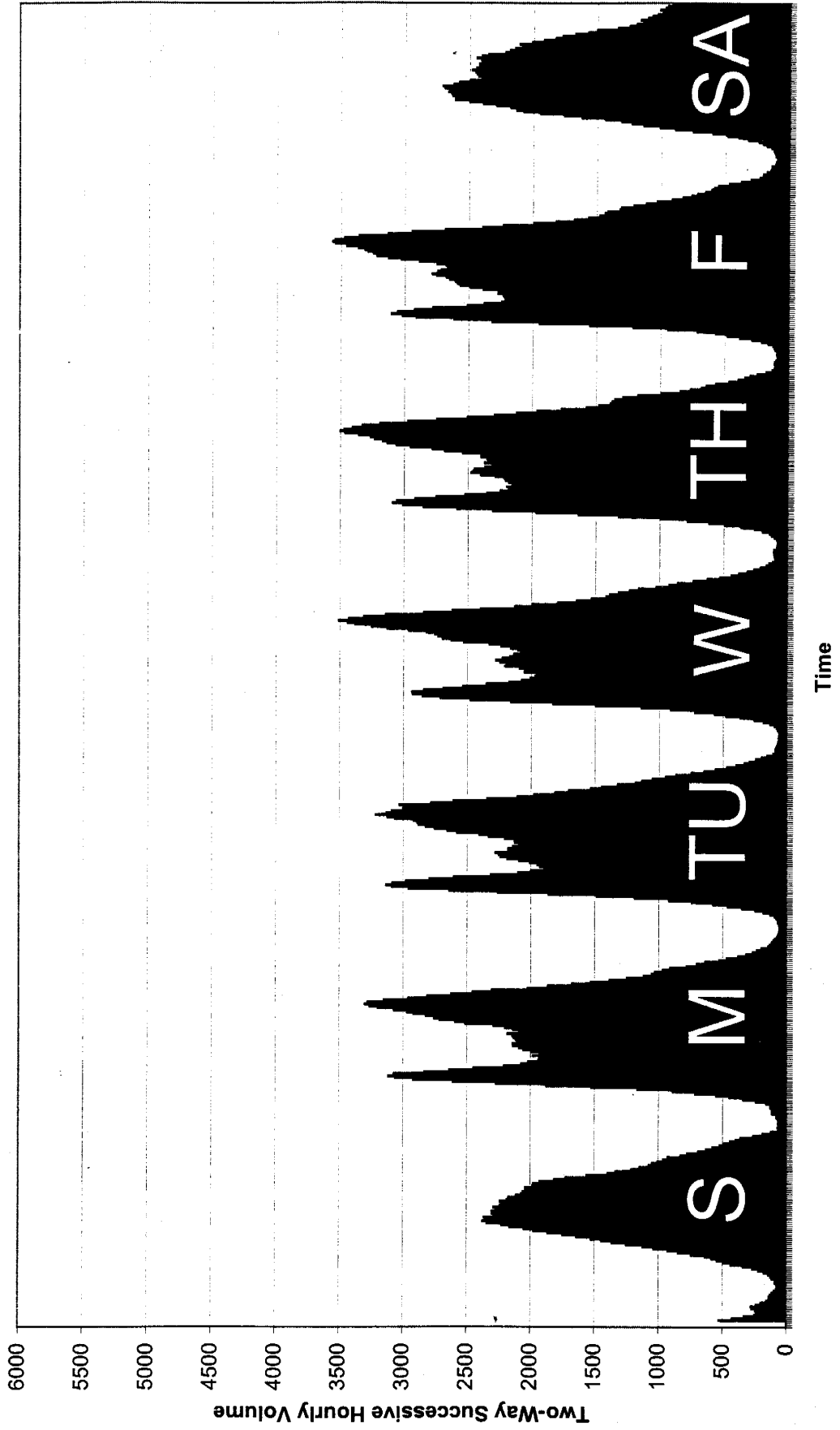
24

Figure 5.14: MD 185 at Jones Bridge Rd
Two-Way Successive Hourly Volumes 3/14/02 (TH)



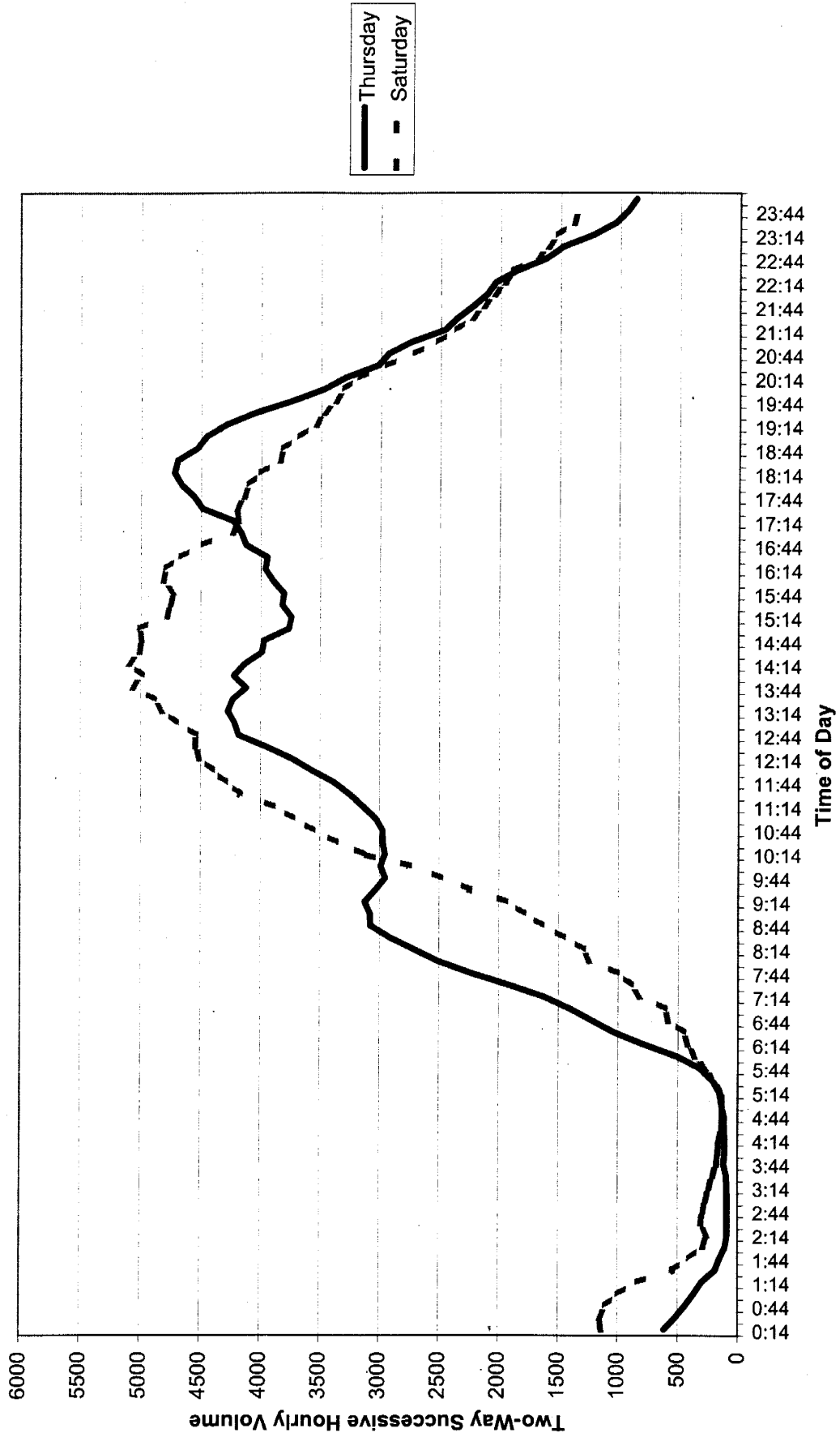
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Old Georgetown Rd (MD 187) at Lone Oak Dr
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

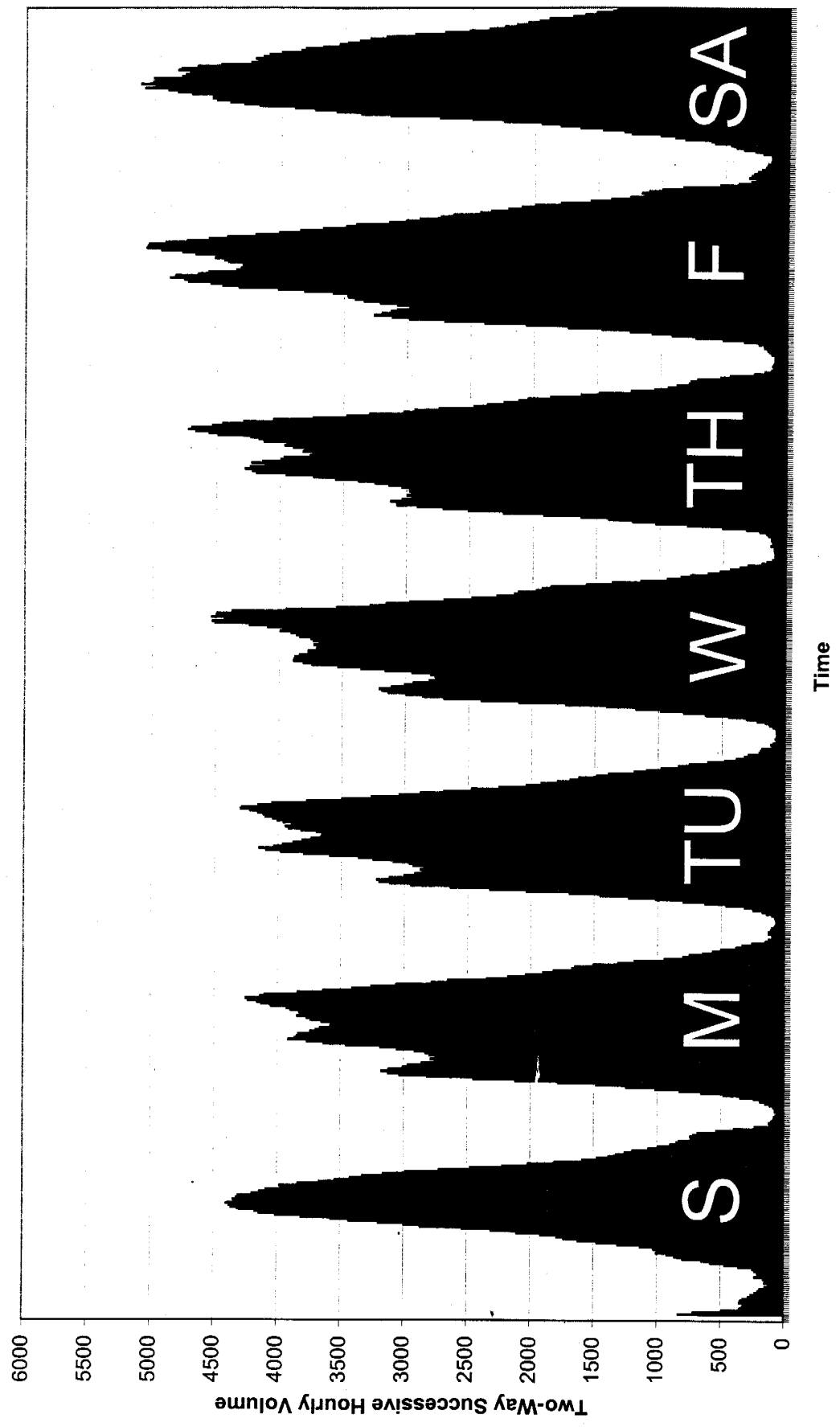


926

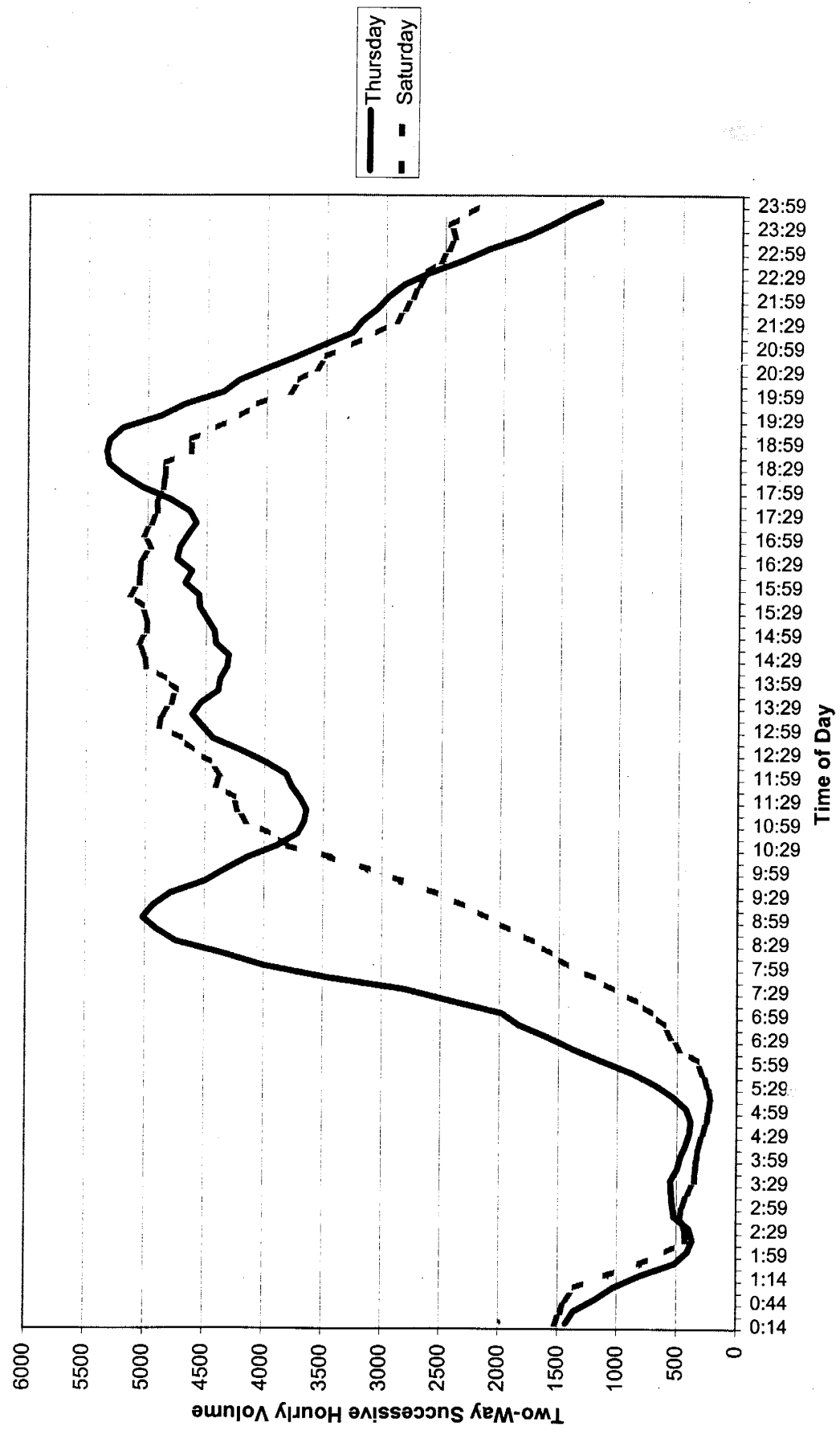
**Rockville Pike (MD 355) -- NB at Old Georgetown Rd (MD 187) and SB at Marinelli Rd
Two-Way Successive Hourly Volumes 3/14/02 and 3/16/02**



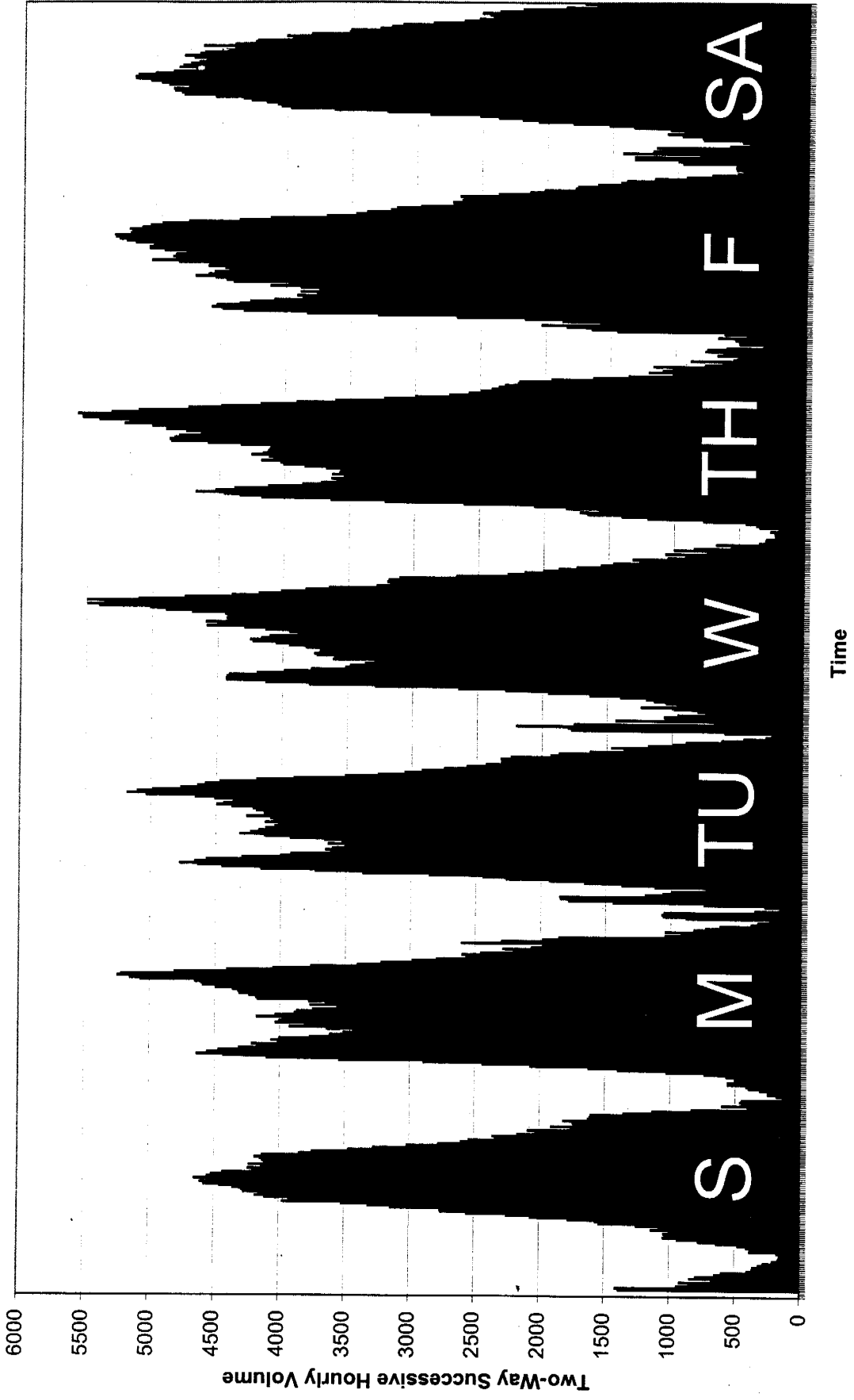
Rockville Pike (MD 355) -- NB at Old Georgetown Rd (MD 187) and SB at Marinelli Rd
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



Rockville Pike (MD 355) at Strathmore Ave (MD 547) -- Two-Way Successive Hourly Volumes
 Thursday 3/14/02 and Saturday 3/16/02

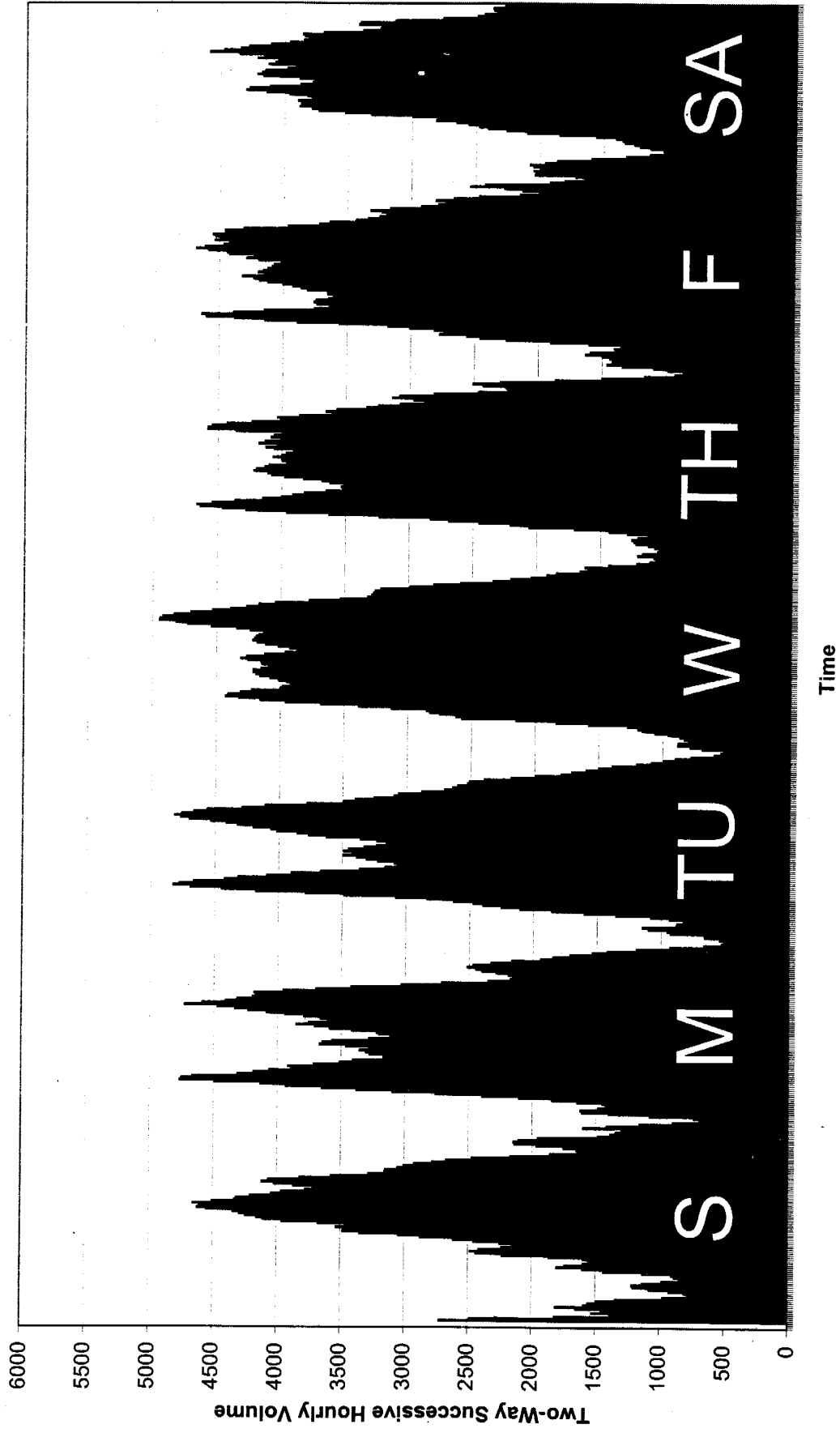


MD 355 at Tuckerman Ln (N) -- Two Way Successive Hourly Volumes 3/10/02 to 3/17/02



80

Rockville Pike (MD 355) at Grosvenor Ln
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



MD 355 at Woodmont Ave -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

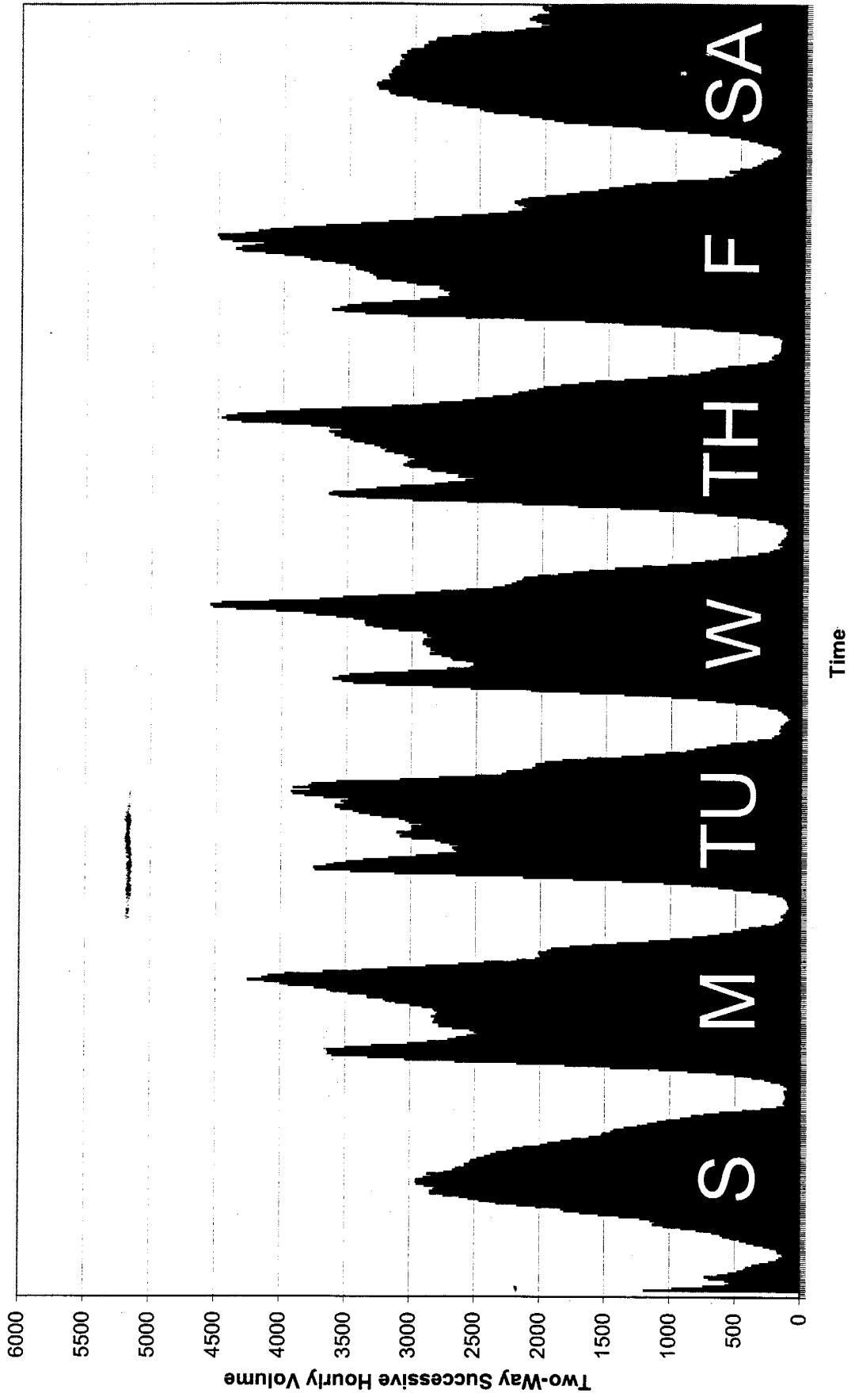
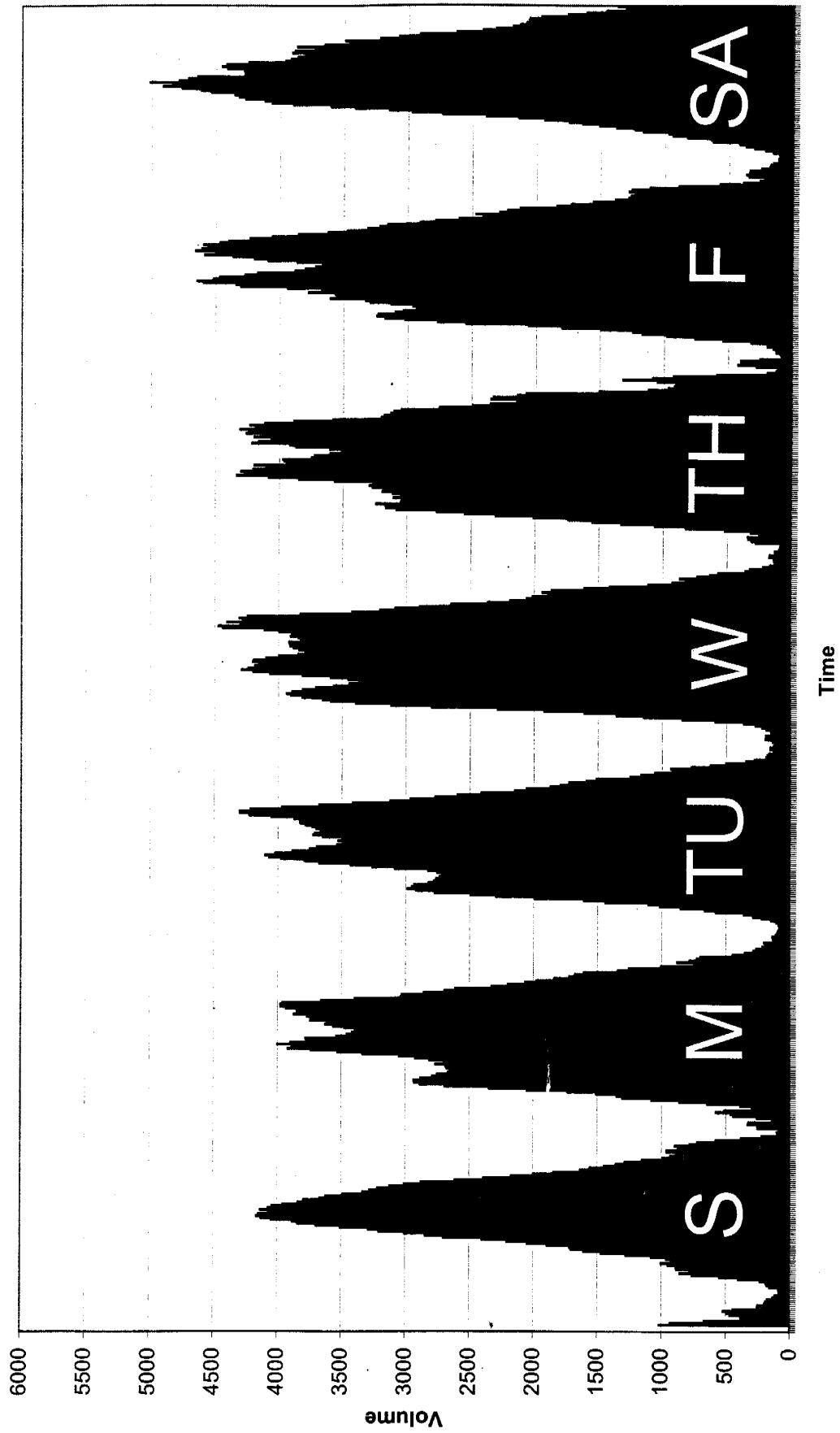
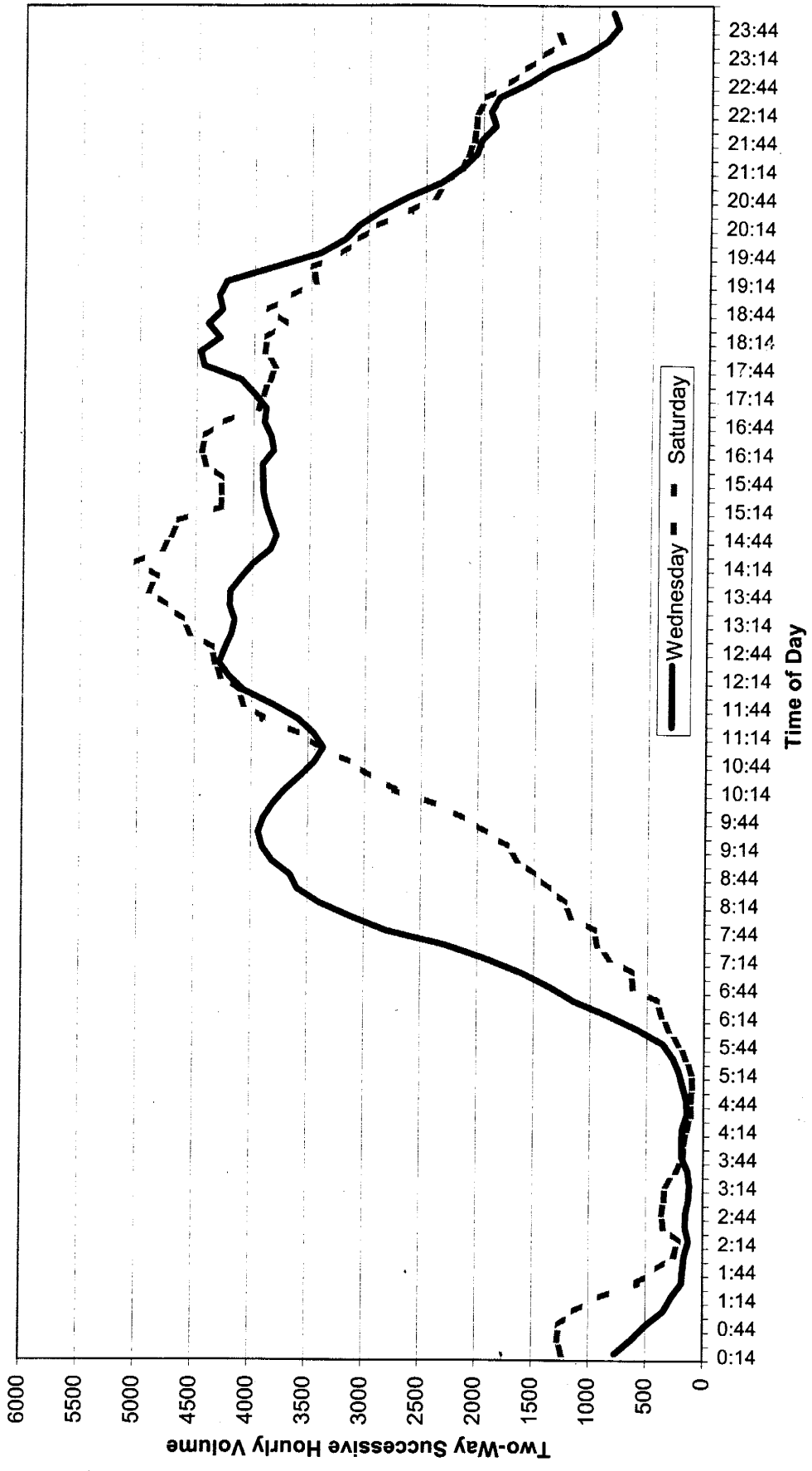


Figure 5.12: Rockville Pike (MD 355) at Old Georgetown Rd (MD 187)
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

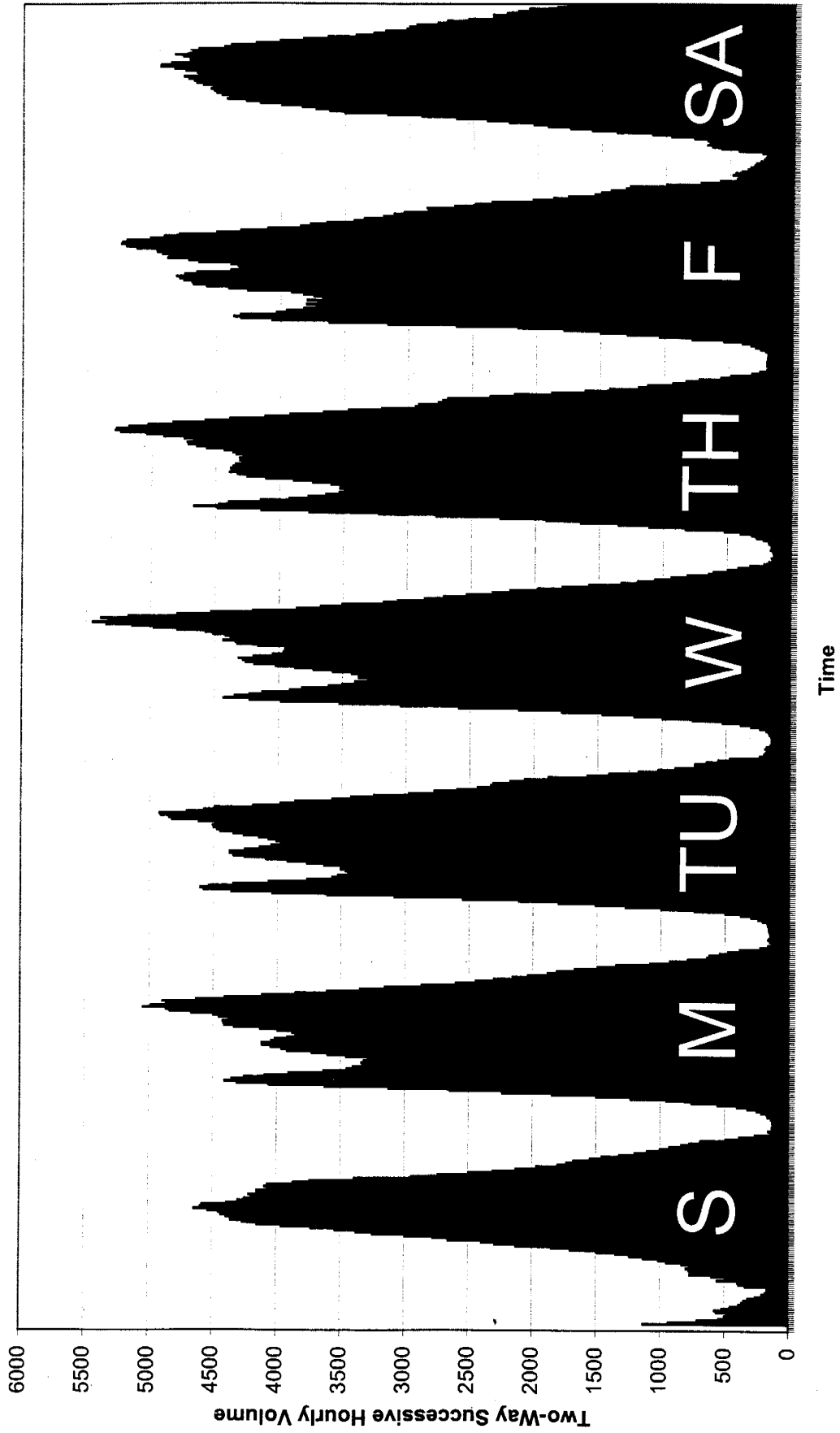


**Rockville Pike (MD 355) at Old Georgetown Rd (MD 187)
Two-Way Successive Hourly Volumes Wednesday 3/13/02 and Saturday 3/16/02**



(34)

Rockville Pike (MD 355) at Edson / White Flint Mall
 Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



Rockville Pike (MD 355) at Strathmore Ave (MD 547)
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02

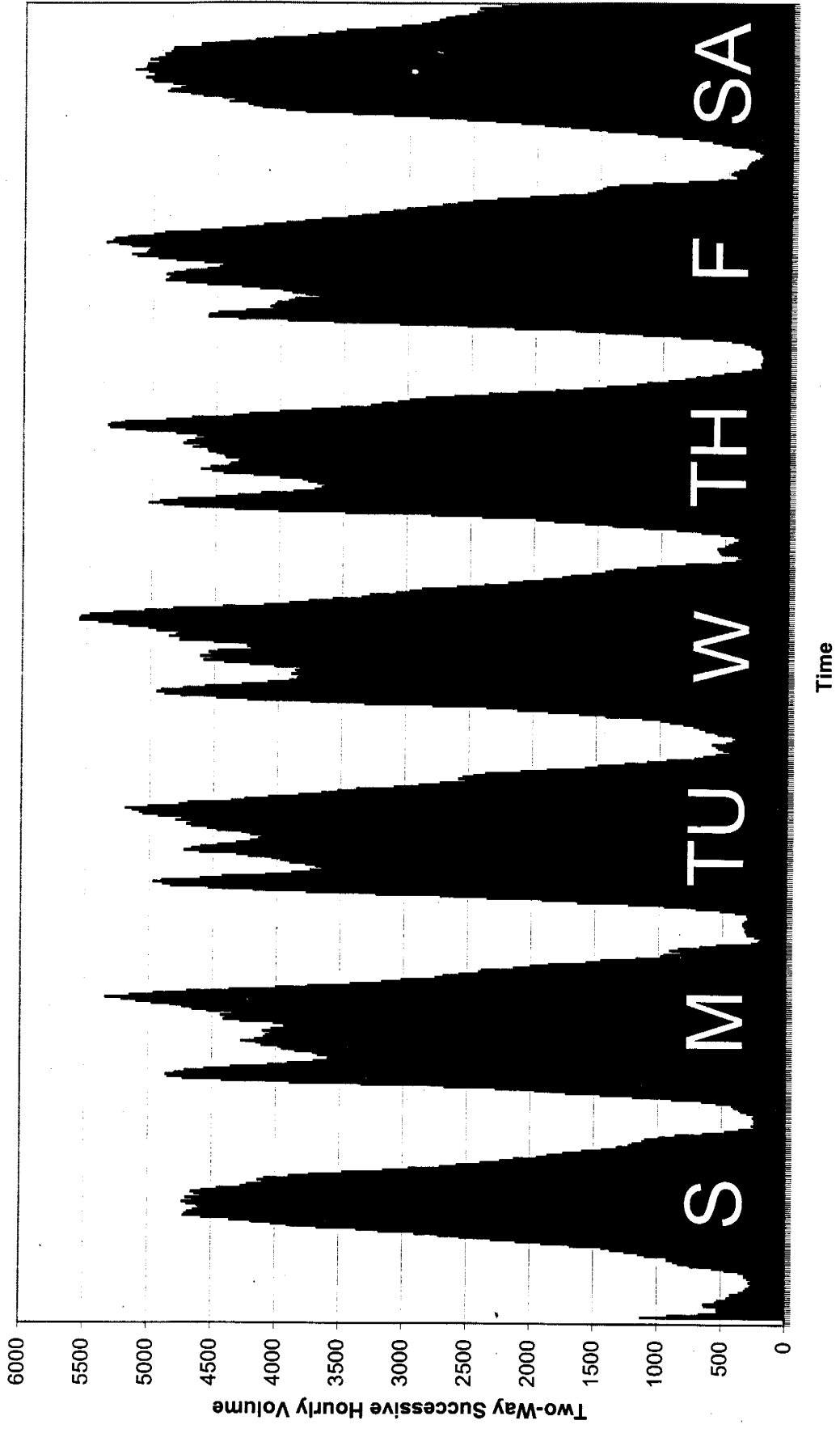
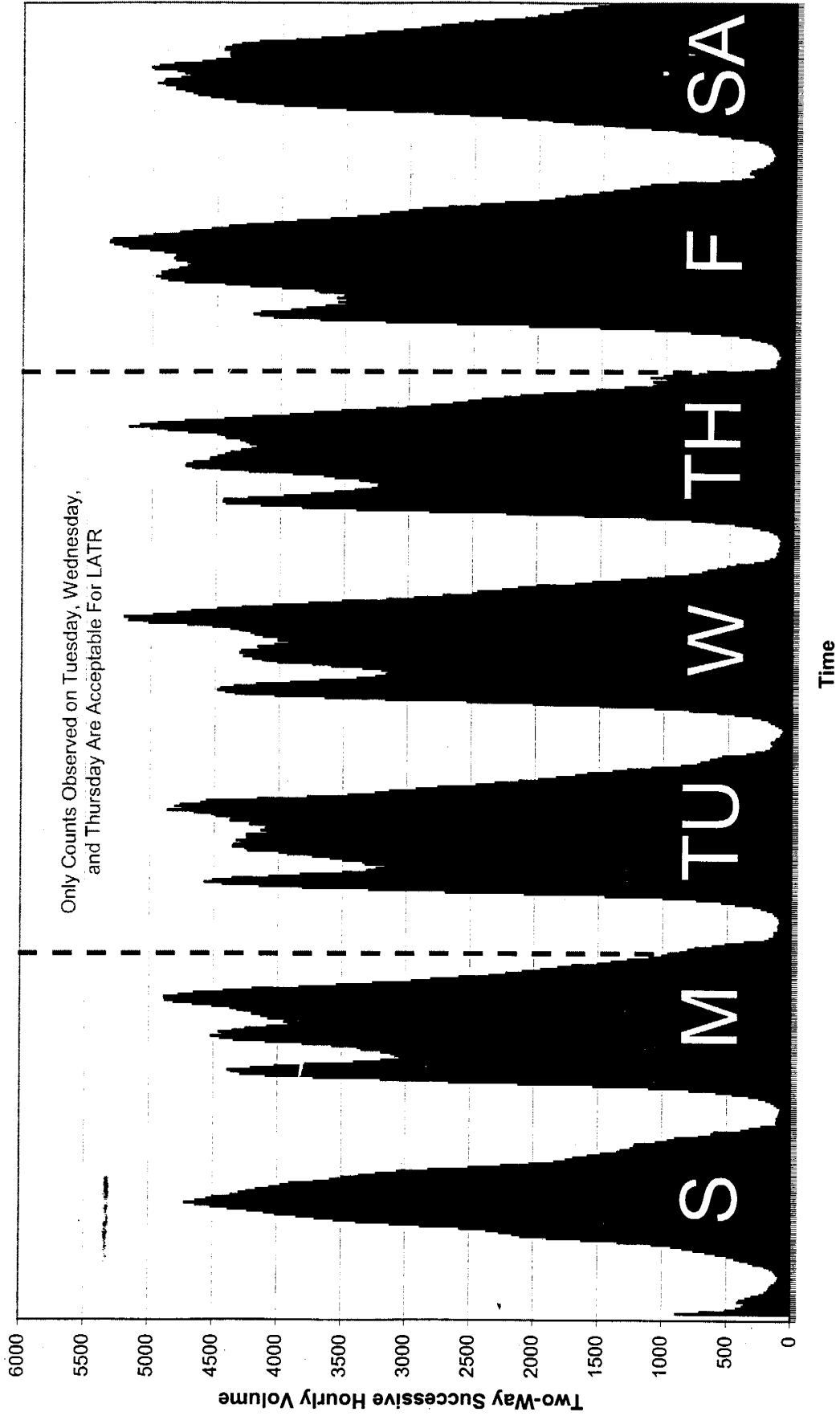
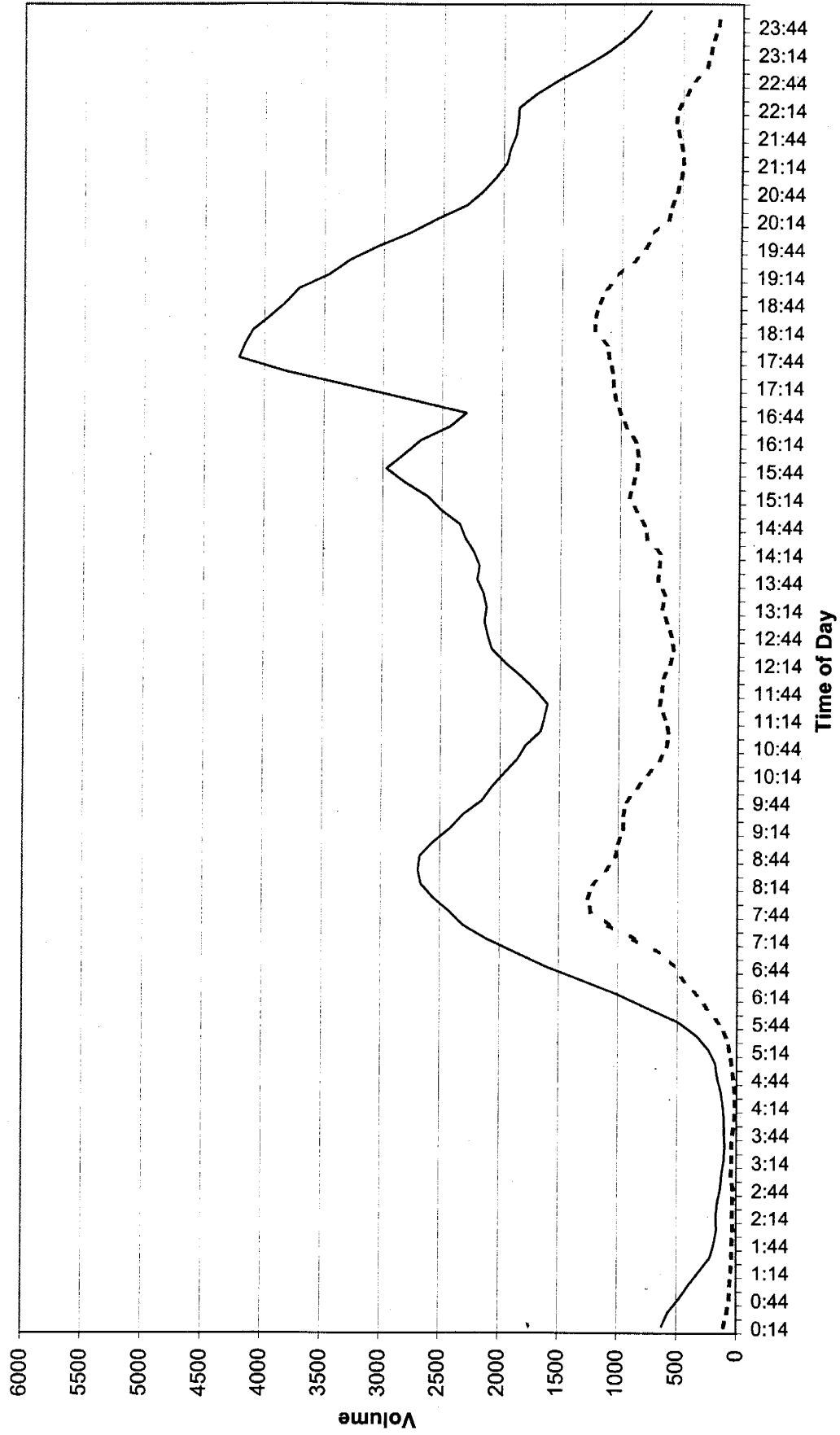


Figure 5.2: Rockville Pike (MD 355) at Woodmont CC / Best Buy Plaza
Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



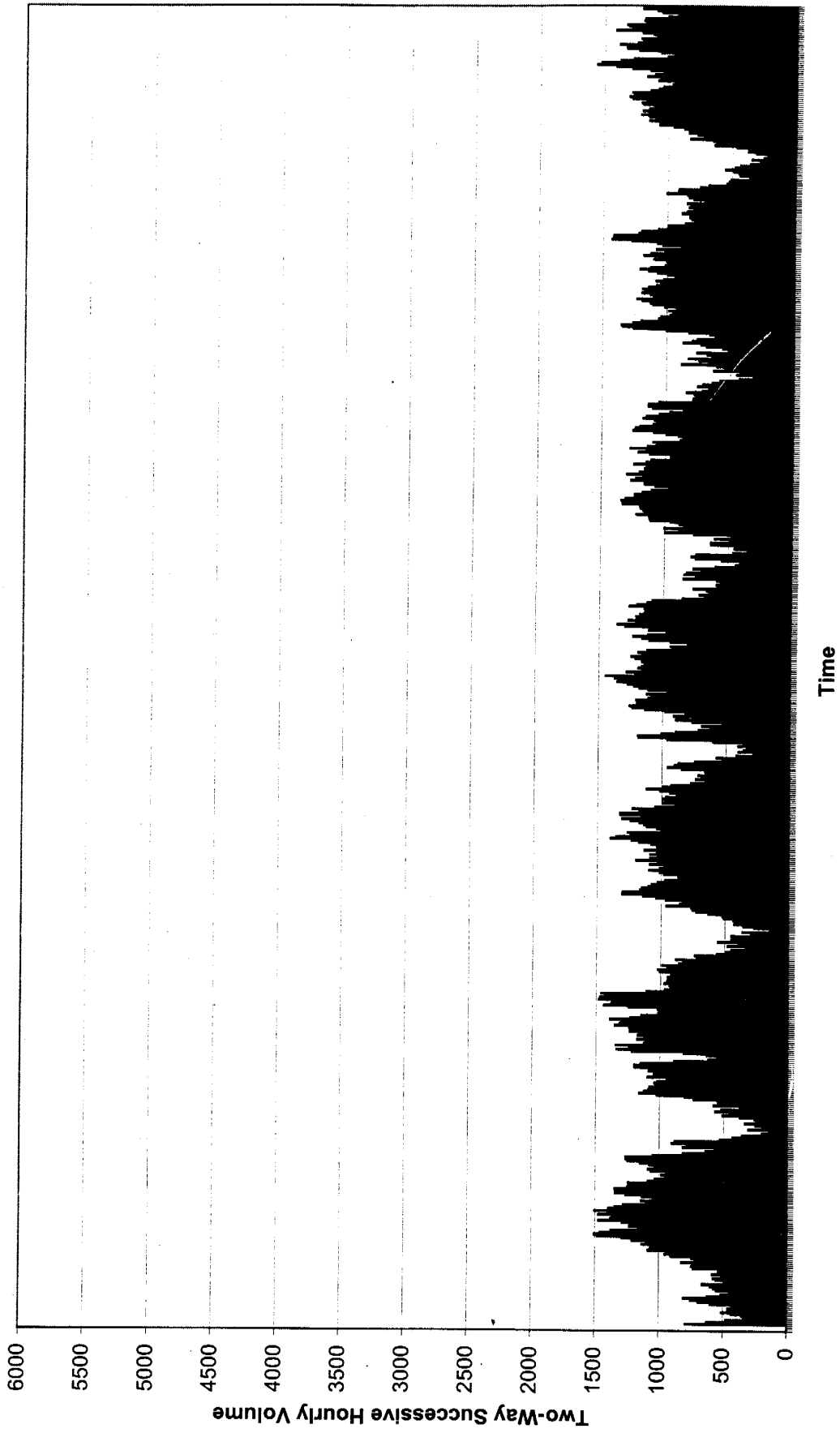
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New Hampshire Ave (MD 650) -- Two-Way Successive Hourly Volumes 3/13/02 (W)

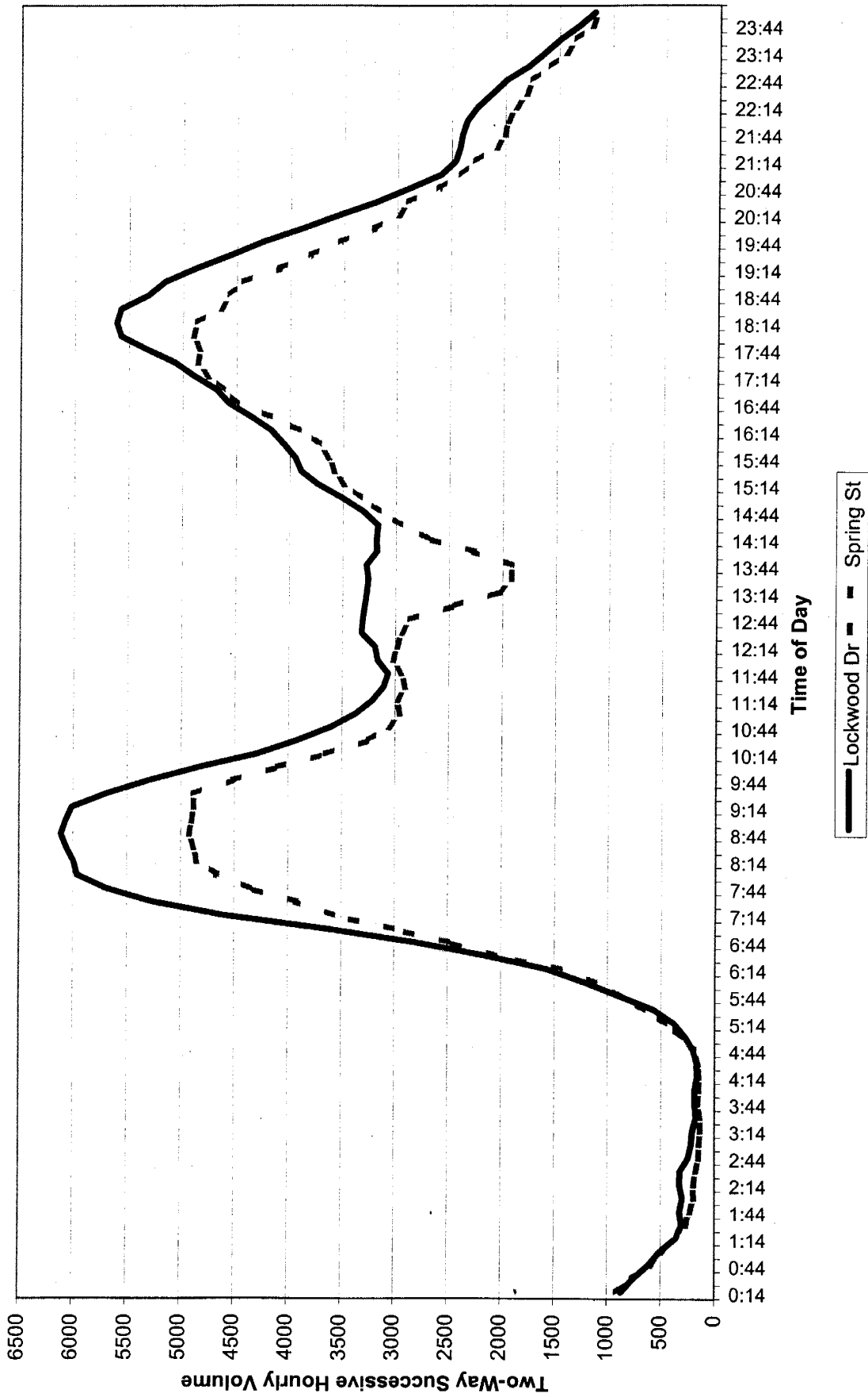


— Adelphi / Metzertott - - - Norwood

Georgia Ave (MD 97) at Connecticut Ave (MD 185) -- Two-Way Successive Hourly Volumes
3/10/02 to 3/17/02

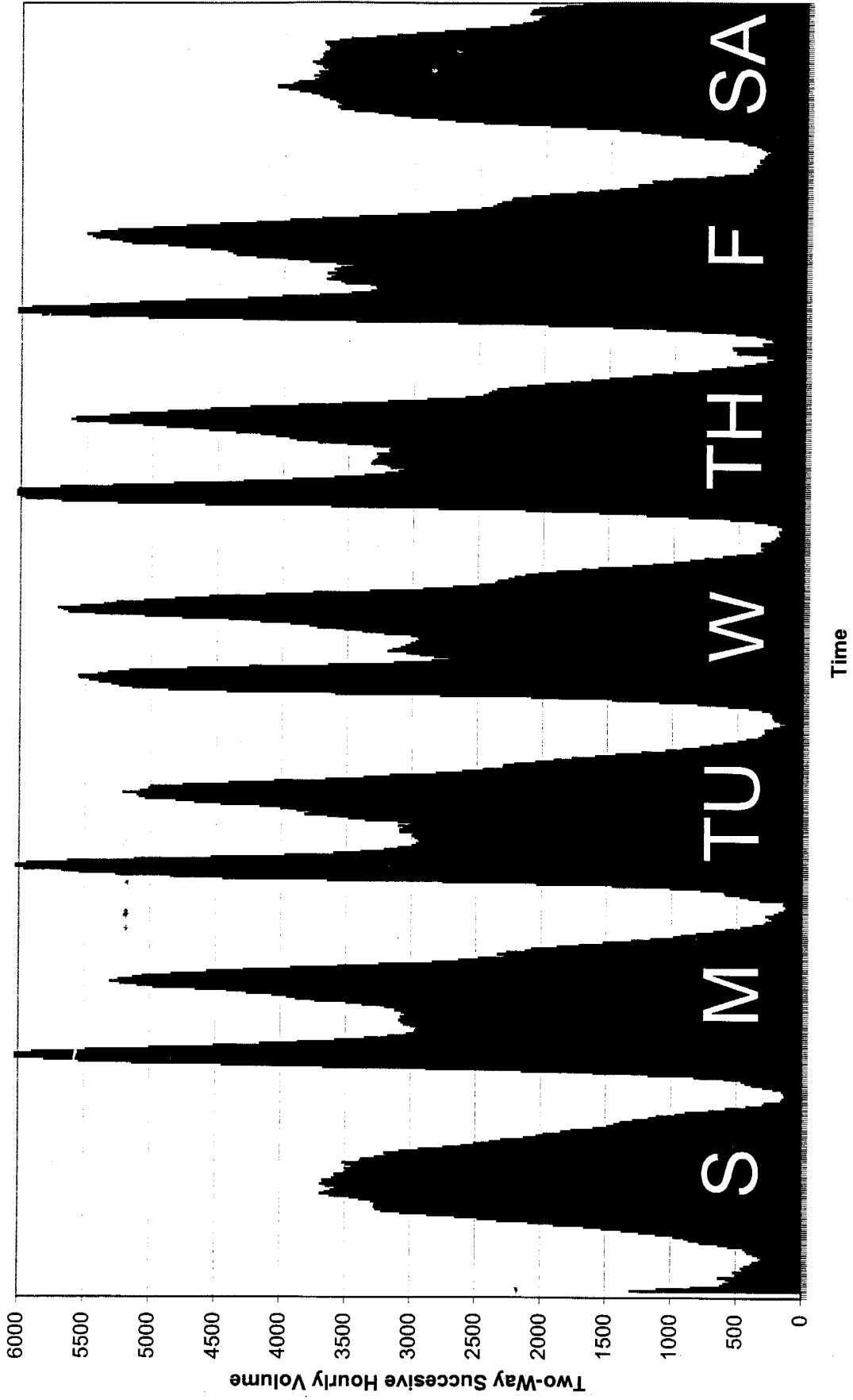


US 29 -- Two-Way Successive Hourly Volumes Thursday 3/14/02



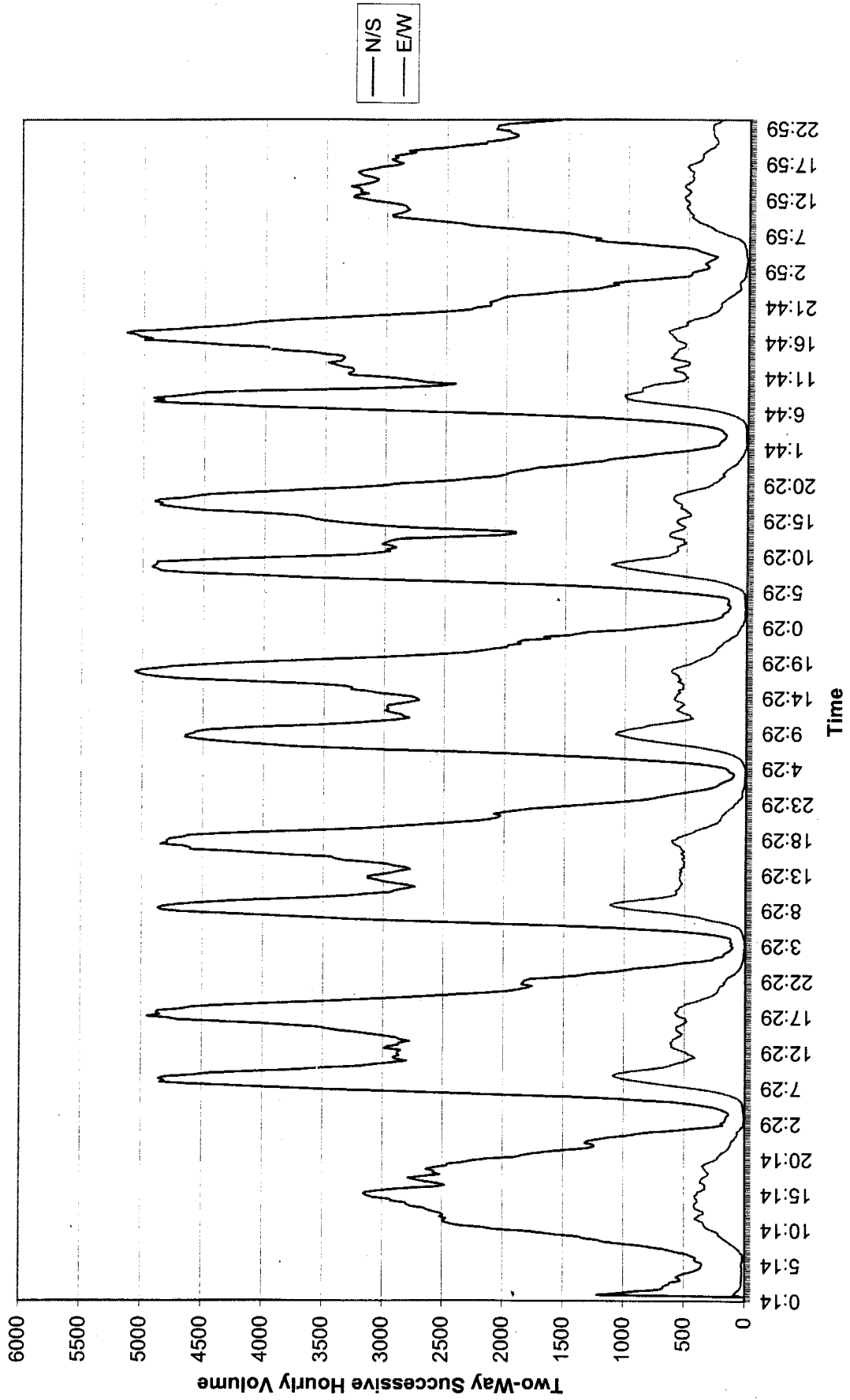
(48)

Columbia Pike at Lockwood Dr -- Two-Way Successive Hourly Volumes -- 3/10/02 to 3/17/02



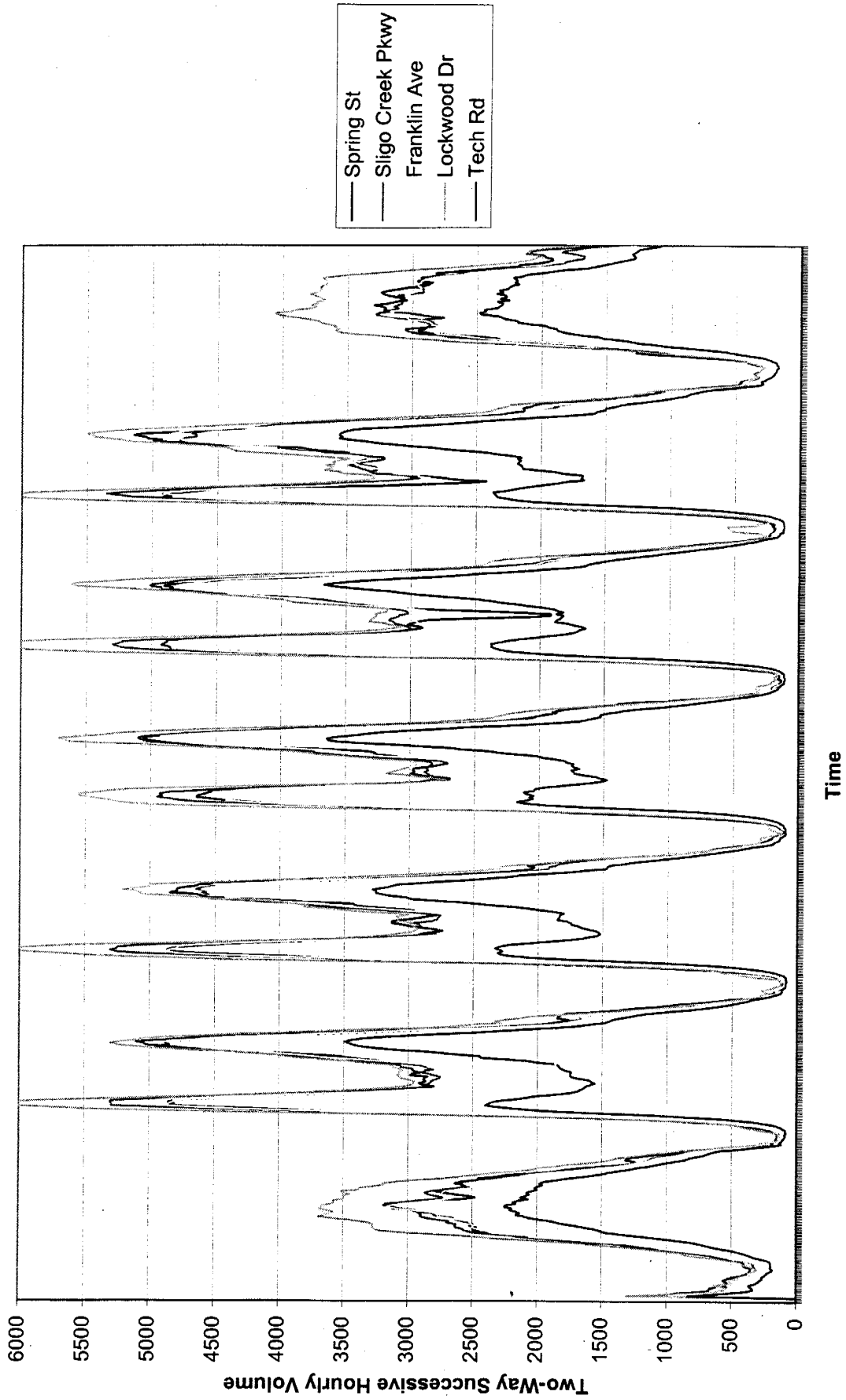
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Colesville Rd (US 29) at Spring St -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



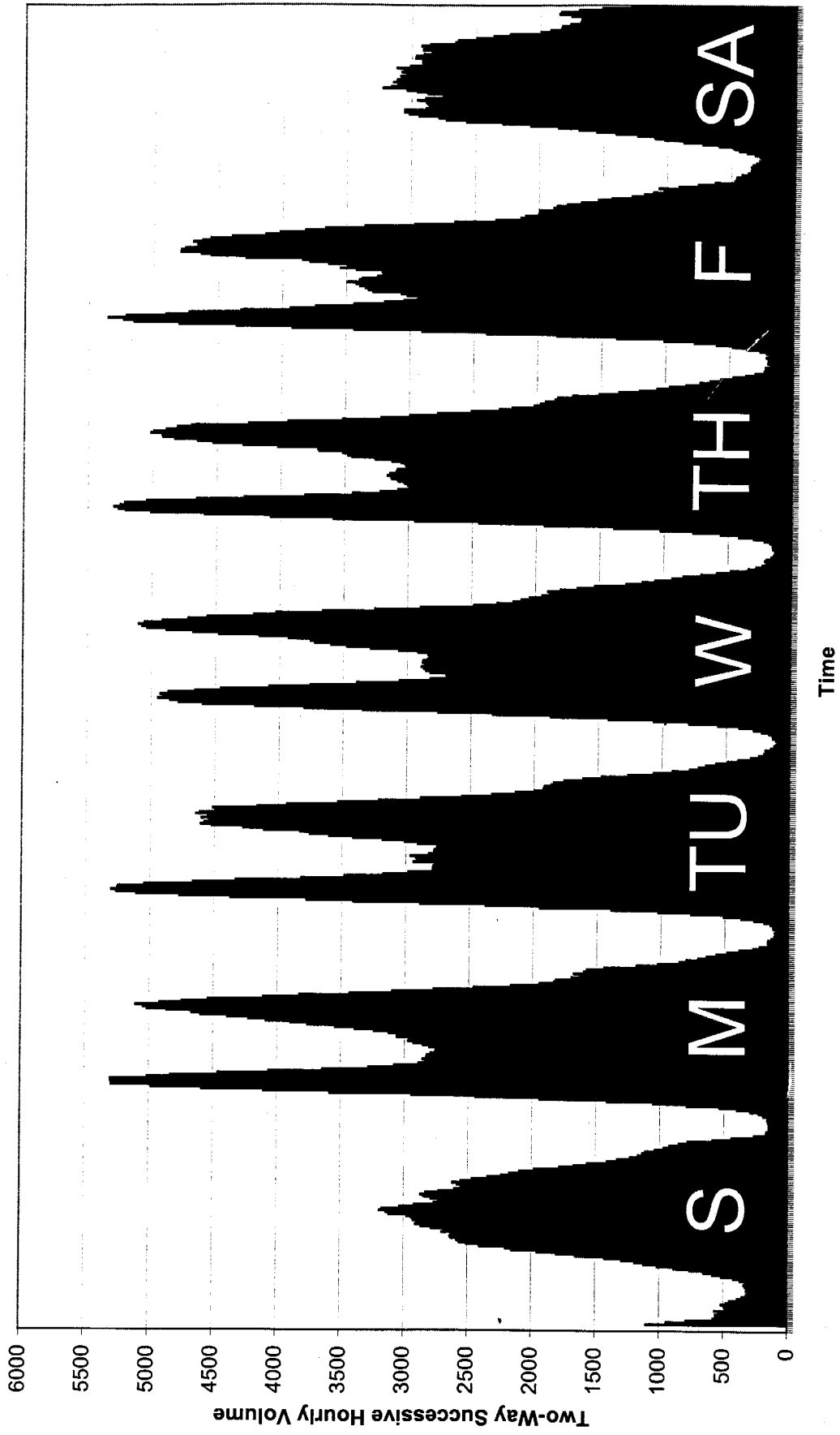
(2)

Colesville Rd (US 29) -- North/South Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



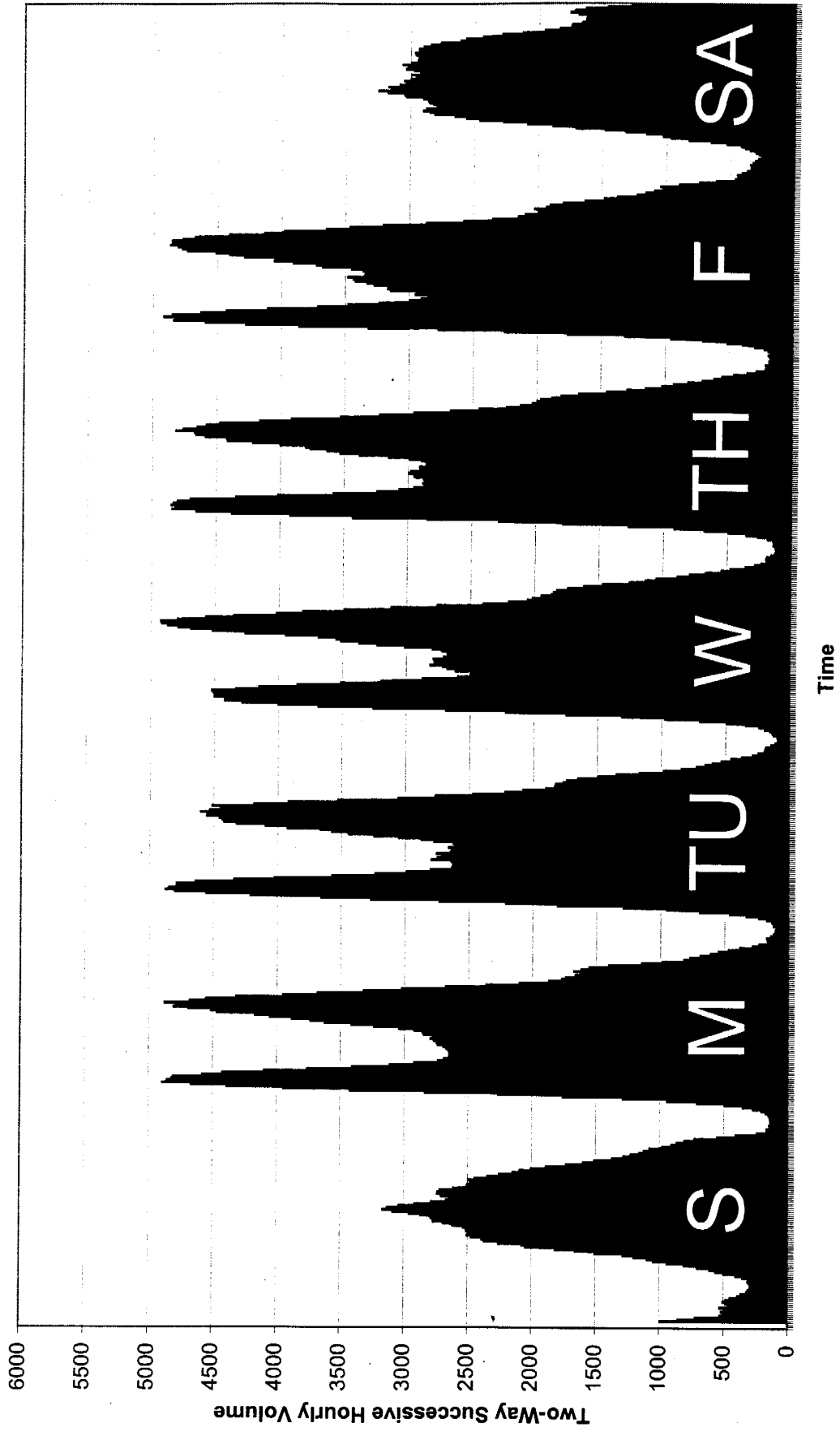
(40)

Colesville Rd (US 29) at Sligo Creek Pkwy / St. Andrews Way -- Two-Way Successive Hourly
Volumes 3/10/02 to 3/17/02



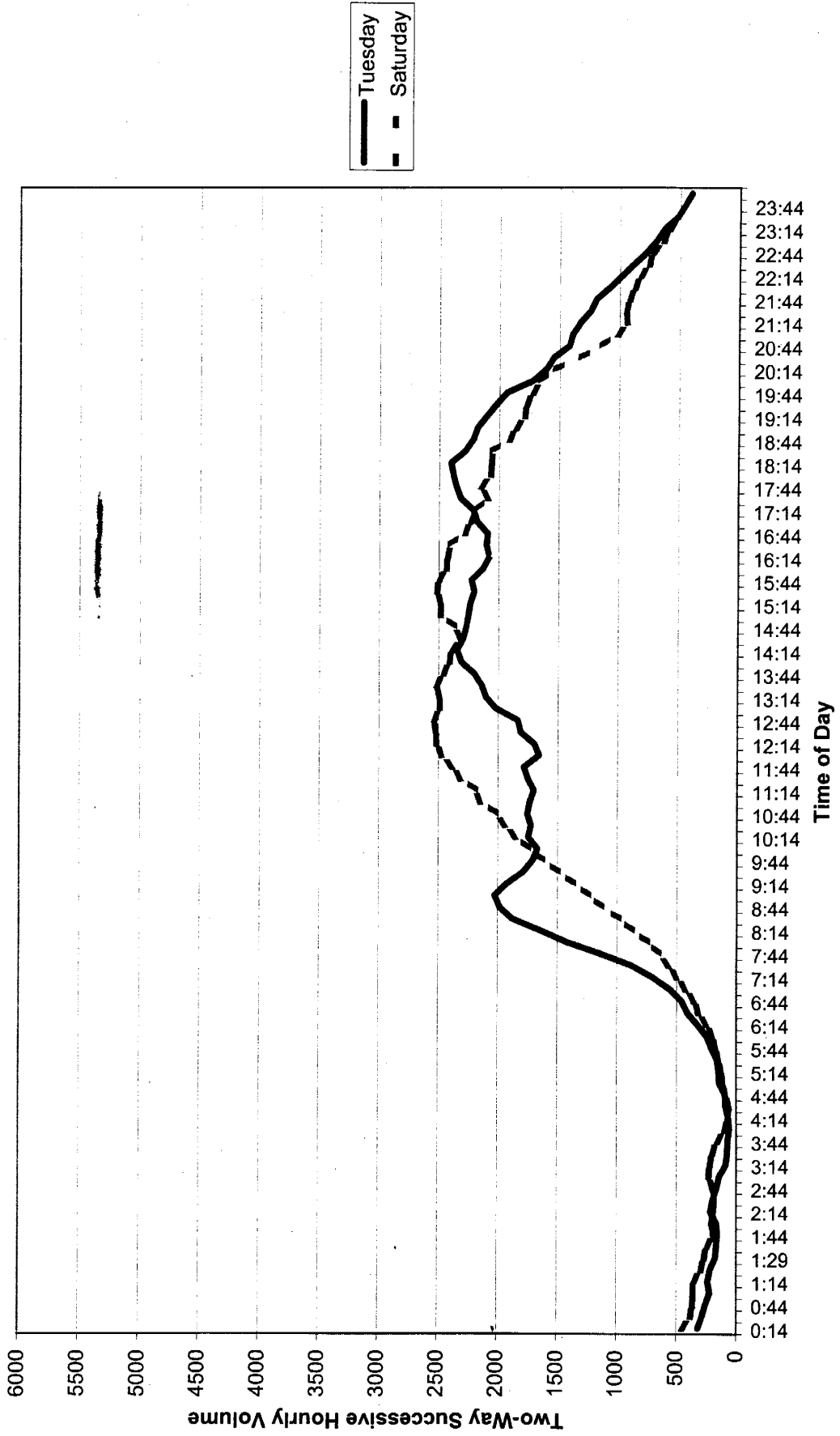
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Colesville Rd (US 29) at Franklin Ave -- Two-Way Successive Hourly Volumes 3/10/02 to 3/17/02



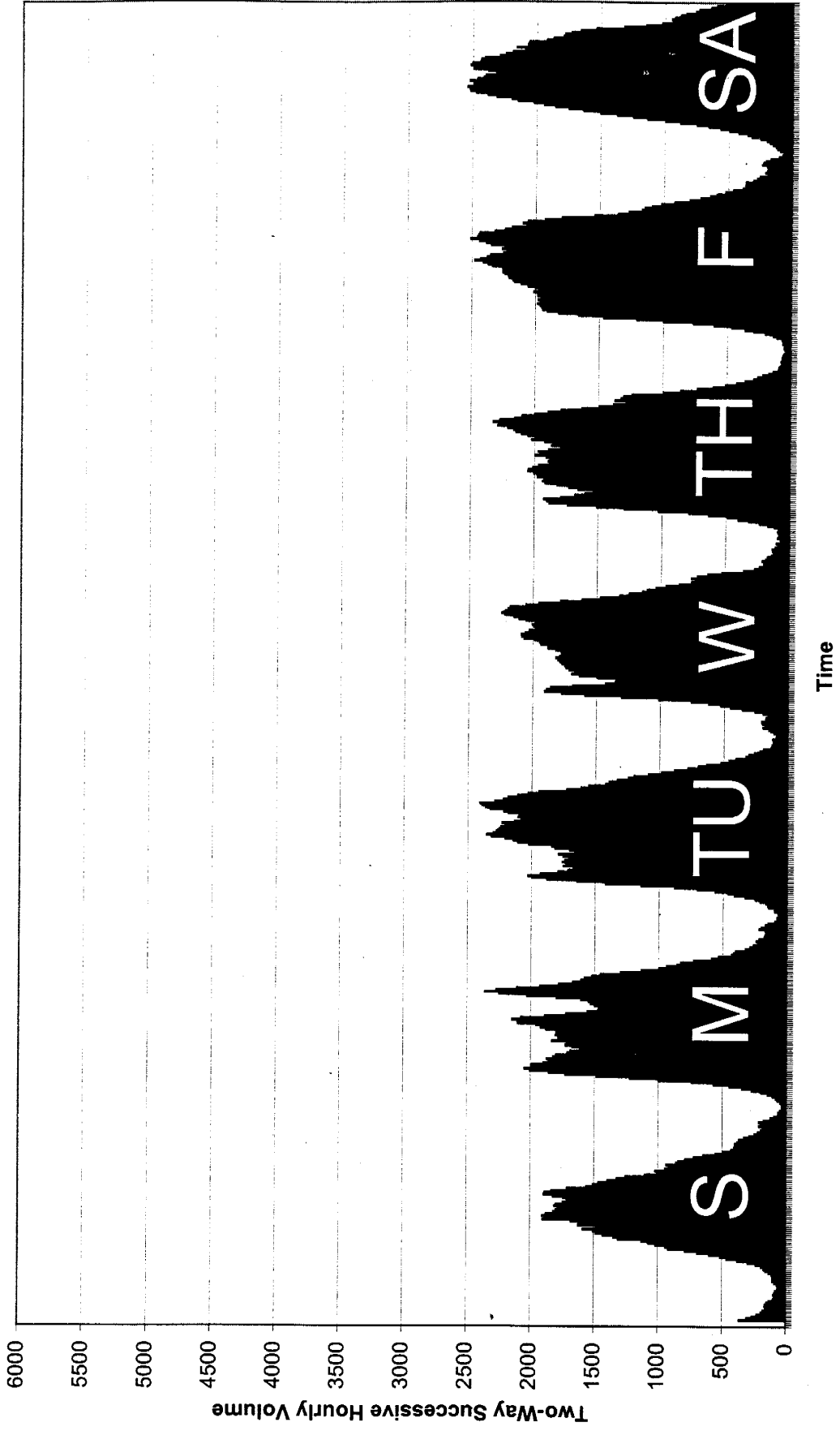
(45)

Democracy Blvd at Rockledge Dr
Two-Way Successive Hourly Volumes 9/10/02 and 9/14/02



NA

Democracy Blvd at Rockledge Dr
Two-Way Successive Hourly Volumes 9/8/02 to 9/14/02



(47)

Appendix K: Off-Peak CLV Summary Table

INTERSECTION	O-P CLV	PA STD	POLICY AREA	COUNT DATE	STATUS
Connecticut Ave at Independence	716	1550	Aspen Hill	10/8/02	above standard
Connecticut Ave at Knowles Ave	1668	1650	Kens/Wheaton	4/3/01	below standard
Connecticut Ave at Randolph Rd	1336	1650	Kens/Wheaton	4/11/01	above standard
Connecticut Ave at University Blvd	896	1650	Kens/Wheaton	4/10/01	above standard
Connecticut Ave at Veirs Mill Rd	1480	1650	Kens/Wheaton	9/19/01	above standard
Frederick Ave at Plummer Dr	470	1550	Germantown E.	1/7/04	above standard
Frederick Rd at Lakeforest/Perry	964	1500	Gaithersburg	6/4/02	above standard
Frederick Rd at Montgomery Village Ave	1207	1500	Gaithersburg	4/19/01	above standard
Frederick Rd at Odenhal Ave	960	1500	Gaithersburg	7/18/02	above standard
Georgia Ave at Aspen Hill Rd	748	1550	Aspen Hill	3/22/00	above standard
Georgia Ave at August Dr	939	1650	Kens/Wheaton	11/19/03	above standard
Georgia Ave at Dennis Ave	1352	1650	Kens/Wheaton	5/1/01	above standard
Georgia Ave at Forest Glen Rd	1467	1650	Kens/Wheaton	4/5/01	above standard
Georgia Ave at Glenallen Ave	917	1800	Glenmont	1/9/03	above standard
Georgia Ave at Hewitt Ave	990	1550	Aspen Hill	9/20/01	above standard
Georgia Ave at I-495 ramps	1628	1650	Kens/Wheaton	11/20/03	above standard
Georgia Ave at MD 108	1559	1525	Olney	11/30/00	below standard
Georgia Ave at Plyers Mill Rd	1246	1650	Kens/Wheaton	11/18/03	above standard
Georgia Ave at Prince Phillip/Queen Eliz	892	1525	Olney	11/18/03	above standard
Georgia Ave at Rossmoor Ln	1279	1550	Aspen Hill	11/18/03	above standard
Hungerford Dr at Middle Ln/Park Rd	1179	1550	Rockville City	4/12/01	above standard
Hungerford Ln (MD 355) at Gude Dr	1583	1550	Rockville City	4/18/01	below standard
MD 108 at Spartan	878	1525	Olney	6/21/01	above standard
MD 355 at Summit Ave	1108	1500	Gaithersburg	1/17/02	above standard
Mont. Village Ave at Chris/Lost Knife	925	1500	Mont Village/AP	11/15/00	above standard
<i>*Montgomery Village Ave at Russell Ave</i>	1574	1500	<i>Gaithersburg</i>	<i>12/13/01</i>	below standard
Norbeck Rd at Bauer Dr	1432	1550	Aspen Hill	2/1/01	above standard
Norbeck Rd at Bel Pre Rd	1291	1550	Aspen Hill	1/31/01	above standard
Old Georgetown Rd at Democracy Blvd	999	1600	North Bethesda	2/24/04	above standard
Old Georgetown Rd at Rock Spring Dr	1104	1600	North Bethesda	2/24/04	above standard
Piney Branch Rd at Barron St	778	1650	SS/Takoma Pk	6/24/03	above standard
Piney Branch Rd at Carroll Ave	687	1650	SS/Takoma Pk	9/16/03	above standard
Piney Branch Rd at Dale Dr/Devon Rd	581	1650	SS/Takoma Pk	12/18/01	above standard
Piney Branch Rd at Flower Ave	770	1650	SS/Takoma Pk	7/18/02	above standard
River Rd at Brookside/Ridgefield	1099	1650	Bethesda-CC	10/31/02	above standard
River Rd at Goldsboro Rd	1595	1650	Bethesda-CC	9/19/02	above standard
River Rd at Springfield-Kc	902	1650	Bethesda-CC	10/3/02	above standard
River Rd at Whittier/Winston	1328	1650	Bethesda-CC	10/2/02	above standard
River Rd at Wilson Ln	1292	1650	Bethesda-CC	9/18/02	above standard
Rockville Pike at E Jefferson/Veirs Mill	1067	1550	Rockville City	4/12/01	above standard

Appendix L: Location of CHART Detectors in Montgomery County

Along I-270 at the following locations (north to south)	Along I-495 at the following locations (east to west and north to south)
Old Hundred Rd (MD 109)	New Hampshire Ave (MD 650)
Maryland State Police Truck Weigh Station	Between Colesville Rd (US 29) and Georgia Ave (MD 97)
Comus Rd	Seminary Rd (~ ¼ mile west of Georgia Ave)
Clarksburg Rd (MD 121)	Connecticut Ave (MD 185)
Germantown Rd (MD 118)	Greentree Rd (~1.5 miles west of Old Georgetown Rd / MD 187)
Quince Orchard Rd / Montgomery Village Ave (MD 124)	River Rd (MD 190)
I-370 / Sam Eig Hwy	Persimmon Tree Rd (~ 1 mile southwest of River Rd)

Appendix M: Results From TRAVEL/2 Model Runs, by Policy Area*

Base Case

Policy Area*	Total Lane Miles	Vehicle-Miles Traveled	Vehicle-Hours Traveled	Average Speed (mph)	Average V/C Ratio
Aspen Hill	84	48,214	1,909	25.3	0.57
Bethesda/Chevy Chase	281	222,592	8,505	26.2	0.68
Clarksburg	64	47,569	1,504	31.6	0.66
Cloverly	35	20,994	897	23.4	0.64
Damascus	29	9,359	306	30.5	0.5
Derwood	69	33,963	1,156	29.4	0.52
Fairland	150	111,377	3,944	28.2	0.61
Gaithersburg City	119	60,096	2,038	29.5	0.5
Germantown East	36	14,137	438	32.3	0.46
Germantown West	114	70,315	2,033	34.6	0.57
Kensington / Wheaton	198	121,273	5,493	22.1	0.6
Montgomery Village	44	19,037	686	27.7	0.51
North Bethesda	158	124,982	4,613	27.1	0.65
North Potomac	19	6,670	240	27.8	0.48
Olney	76	34,796	1,272	27.3	0.56
Potomac	99	37,933	1,374	27.6	0.51
R & D Village	47	23,464	728	32.2	0.51
Rockville City	196	142,921	5,104	28	0.64
Rural	467	186,028	5,931	31.4	0.56
Silver Spring/Takoma Park	188	159,494	6,844	23.3	0.72

2010 Scenario

Policy Area*	Total Lane-Miles	Vehicle-Miles Traveled	Vehicle-Hours Traveled	Average Speed (mph)	Average V/C Ratio
Aspen Hill	91	60,970	2,986	20.4	0.64
Bethesda/Chevy Chase	281	239,928	10,299	23.3	0.71
Clarksburg	93	62,974	2,225	28.3	0.65
Cloverly	48	32,235	1,245	25.9	0.64
Damascus	31	11,936	500	23.9	0.58
Derwood	71	42,434	1,818	23.3	0.6
Fairland	159	125,418	5,377	23.3	0.67
Gaithersburg City	131	86,507	3,380	25.6	0.59
Germantown East	58	30,041	947	31.7	0.51
Germantown West	141	92,474	2,723	34	0.57
Kensington / Wheaton	202	137,447	7,365	18.7	0.66
Montgomery Village	50	24,760	958	25.8	0.54
North Bethesda	168	137,833	5,980	23	0.69
North Potomac	56	33,290	1,112	29.9	0.55
Olney	79	40,596	1,676	24.2	0.6
Potomac	99	44,295	1,867	23.7	0.56
R & D Village	44	21,775	801	27.2	0.53
Rockville City	185	165,119	7,214	22.9	0.7
Rural	457	220,040	8,203	26.8	0.61
Silver Spring/Takoma Park	188	168,765	8,147	20.7	0.75

*The model groups metro station policy areas with their larger parent policy areas: Bethesda / Chevy Chase includes Bethesda CBD and Friendship Heights; North Bethesda includes Grosvenor, White Flint, and Twinbrook; Derwood includes Shady Grove; Silver Spring / Takoma Park includes Silver Spring CBD; Kensington / Wheaton includes Wheaton CBD and Glenmont

Absolute Change Base Case to 2010

Policy Area*	Total Lane-Miles	Vehicle-Miles Traveled	Vehicle-Hours Traveled	Average Speed (mph)	Average V/C Ratio
Aspen Hill	7	12,756	1,077	-4.9	0.07
Bethesda/Chevy Chase	0	17,336	1,794	-2.9	0.03
Clarksburg	29	15,405	721	-3.3	-0.01
Cloverly	13	11,241	348	2.5	0
Damascus	2	2,577	194	-6.6	0.08
Derwood	2	8,471	662	-6.1	0.08
Fairland	9	14,041	1,433	-4.9	0.06
Gaithersburg City	12	26,411	1,342	-3.9	0.09
Germantown East	22	15,904	509	-0.6	0.05
Germantown West	27	22,159	690	-0.6	0
Kensington / Wheaton	4	16,174	1,872	-3.4	0.06
Montgomery Village	6	5,723	272	-1.9	0.03
North Bethesda	10	12,851	1,367	-4.1	0.04
North Potomac	37	26,620	872	2.1	0.07
Olney	3	5,800	404	-3.1	0.04
Potomac	0	6,362	493	-3.9	0.05
R & D Village	-3	-1,689	73	-5	0.02
Rockville City	-11	22,198	2,110	-5.1	0.06
Rural	-10	34,012	2,272	-4.6	0.05
Silver Spring/Takoma Park	0	9,271	1,303	-2.6	0.03