

# VALLEY FORGE NATIONAL HISTORICAL PARK TRAFFIC DATA PACKAGE

**NPS Traffic Monitoring  
Program, Coverage Count and  
Data Reporting Project  
DTFH71-02-R-00013**



December 5, 2003

**Prepared for**

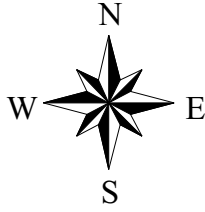
**Department of Transportation  
Federal Highway Administration  
Eastern Federal Lands Highway Division**



**U.S. Department of Transportation  
Federal Highway Administration**

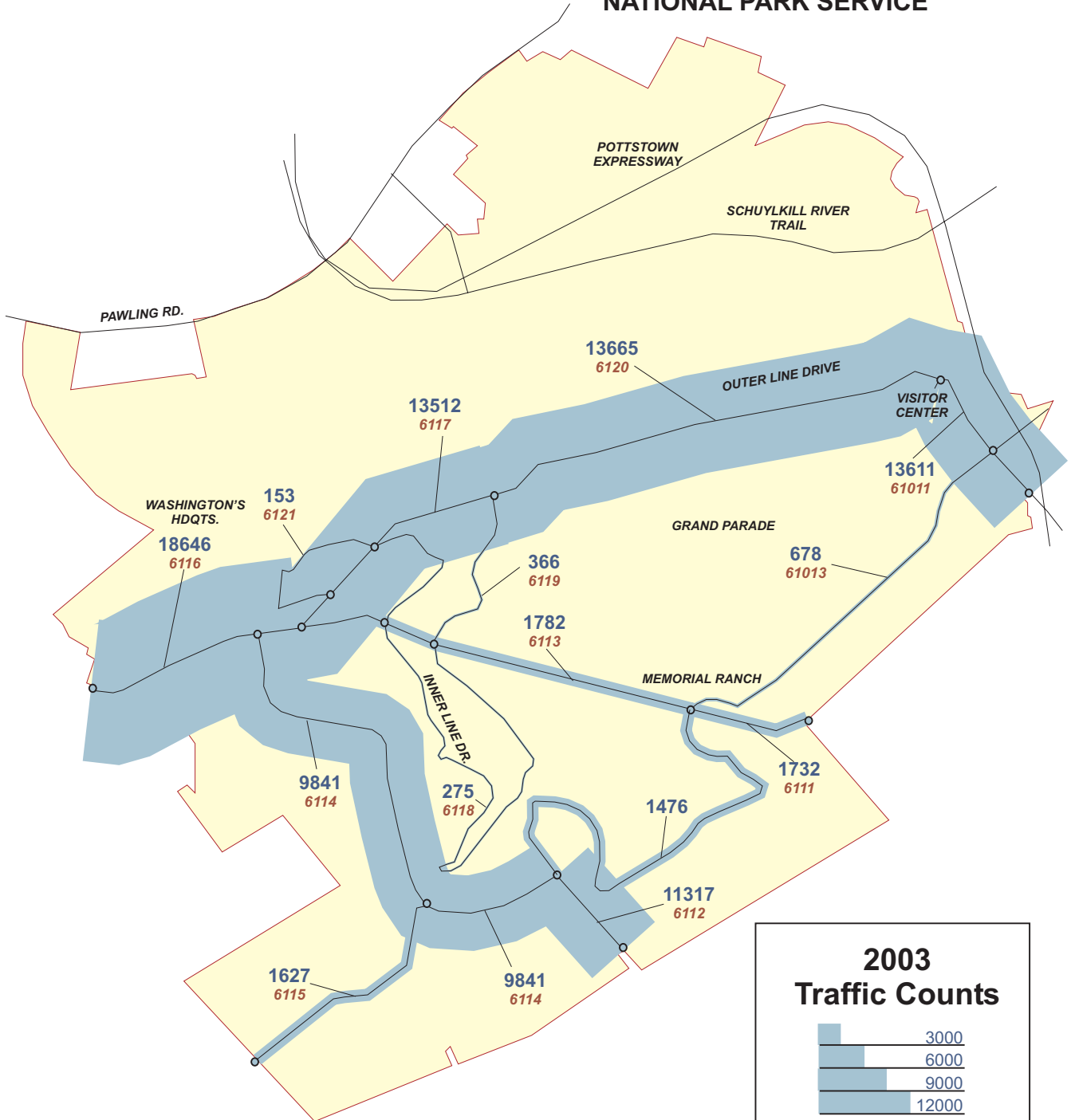
**Submitted by**





# Valley Forge National Historical Park

Pennsylvania  
U.S. Department of Interior  
NATIONAL PARK SERVICE



### 2003 Traffic Counts

3000
6000
9000
12000

**AADT Scale**

Reference Station Number in *ITALICS*

## VALLEY FORGE NATIONAL MILITARY PARK

## TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988*	1991*	1994	2003	1988	1991	1994	2003
	Inner Line Dr. North of Outer Line	6121	0.62	263	263	263	153	60	60	60	35
	Inner Line Dr. NB North of Gulph Rd.	6119	0.48	482	482	482	366	84	84	84	64
	Inner Line Dr. S. of North Gulph Rd.	6118	1.73	278	278	278	275	176	176	176	174
23	S.H. 23 W. of Valley Creek Rd.	6116	0.66	14014	14014	14014	18646	3376	3376	3376	4492
	N. Gulph Rd. - Inner Line Dr. to Outer Line Dr.	6113	1.17	1823	1823	1823	1782	779	779	779	761
23	S.H. 23 - Inner Line Rd. to County Line	6120	1.35	10651	10651	10651	13665	5248	5248	5248	6733
23	S.H. 23 - North Gulph to NB Inner Line	6117	0.68	10469	10469	10469	13512	2598	2598	2598	3354
	N. Gulph Rd. - Outer Line to Park Boundary	6111	0.35	1457	1457	1457	1732	186	186	186	221
	WB Outer line W. of North Gulph	**	1.57	812	812	812	1476	465	465	465	846
	Yellow Springs - Park Boundary to Valley Creek	6115	0.73	1518	1518	1518	1627	404	404	404	434
	Valley Creek - Baptist Rd. to Yellow Springs	6114	0.43	5979	5979	5979	9841	938	938	938	1545
	Valley Creek - Yellow Springs to SR 23	6114	1.02	5979	5979	5979	9841	2226	2226	2226	3664
23	S.H. 23 - County Line to Outer Line	61011	0.44	13134	13134	13134	13611	2109	2109	2109	2186
	Outer Line - S.H. 23 to North Gulph Road	61013	1.19	1031	1031	1031	678	448	448	448	294
	Outer Line - S.H. 23 to North Gulph Rd.	61012	0.33	625	625	625	548	75	75	75	66
252	Baptist Rd.	6112	0.25	812	812	812	11317	74	74	74	1033
VMT SUMMARY								19247	19247	19247	25900

Note: AADT -- Annual Average Daily Traffic

VMT-- Vehicle Miles of Travel

\*Used 1994 data since Valley Forge was not included in traffic counting program prior to 1993.

\*\*AADT was computed as a difference between AADTs in south-bound direction estimated for stations 6112 and 6114

National Park Service Traffic Count Program

**VALLEY FORGE NATIONAL MILITARY PARK**

**2003 TRAFFIC VOLUME SUMMARY**

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
61011	S.H. 23 of Outer Line					13977	13611	Self
61012	One-Way Return Road from Visitor Center to S.H. 23					626	548	Self
61013	Outer Line West of Visitor Center					771	678	Self
6111	N. Gulph Rd. - Outer Line to Park Boundary	07/30/03	2002	0.88833	0.86508	1778	1732	61011
6112	Baptist Rd.	07/30/03	13746	0.93682	0.82331	12877	11317	61013
6113	N. Gulph Rd. - Inner Line Dr. to Outer Line Dr.	07/30/03	2060	0.88833	0.86508	1830	1782	61011
6114	Valley Creek - Baptist Rd. to Yellow Springs	07/30/03	11376	0.88833	0.86508	10106	9841	61011
6115	Yellow Springs - Park Boundary to Valley Creek	07/30/03	1881	0.88833	0.86508	1671	1627	61011
6116	S.H. 23 W. of Valley Creek Rd.	07/30/03	21554	0.88833	0.86508	19147	18646	61011
6117	S.H. 23 - North Gulph to NB Inner Line	07/30/03	15619	0.88833	0.86508	13875	13512	61011
*6118	Inner Line Dr. S. of North Gulph Rd.	08/02/03	446	0.70155	0.61655	313	275	61013
6119	Inner Line Dr. NB North of Gulph Rd.	07/30/03	445	0.93682	0.82331	417	366	61013
6120	S.H. 23 - Inner Line Rd. to County Line	07/30/03	15796	0.88833	0.86508	14032	13665	61011
6121	Inner Line Dr. North of Outer Line	07/30/03	186	0.93682	0.82331	174	153	61013

Note: AADT -- Annual Average Daily Traffic  
 SADT -- Seasonal Average Daily Traffic computed using data for the months containing 80% of annual volume.  
 REF. STA. -- a permanent Automated Traffic Recorder (ATR) reference station used to obtain seasonal and annual adjustment factors for coverage counts.  
 \* This station was recounted at a different date due to equipment failure.

National Park Service Traffic Count Program

**VALLEY FORGE NATIONAL MILITARY PARK**

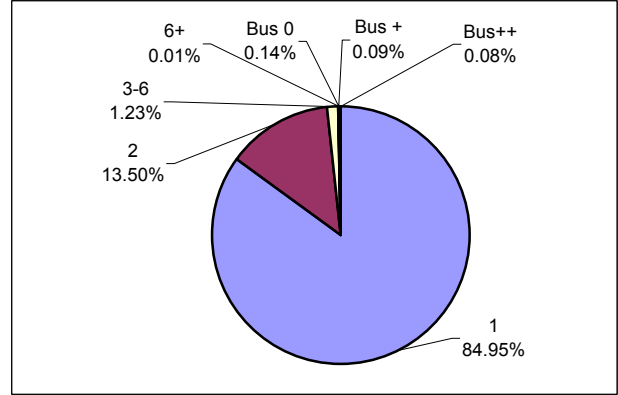
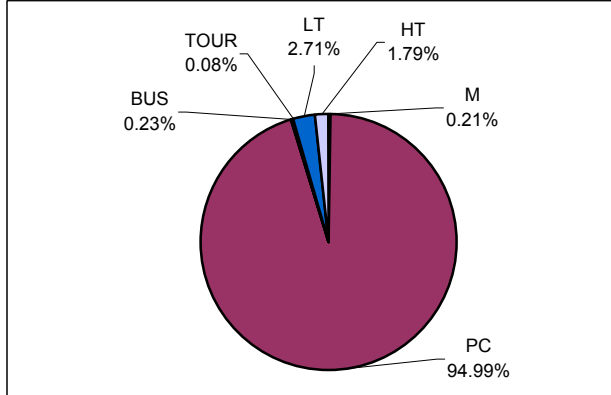
**2003 TRAFFIC COMPOSITION SUMMARY**

**Vehicle Classification**

**Vehicle Occupancy**

Location: STATION 6116

Location: STATION 6116



**CLASSIFICATION LEGEND:**

**OCCUPANCY LEGEND:**

No.	Vehicle Type	FHWA Class
M	Motorcycles	Class 1
PC	Passenger Cars	Class 2
RV	Recreational Vehicles	N/A
V+T	Vehicles/RV pulling Trailer	N/A
BUS	Transit/Shuttle Buses	Class 4
TOUR	Tour Buses	Class 4
LT	Light-duty Trucks	Classes 3, 5
HT	Heavy-duty Trucks	Classes 6 - 13

No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

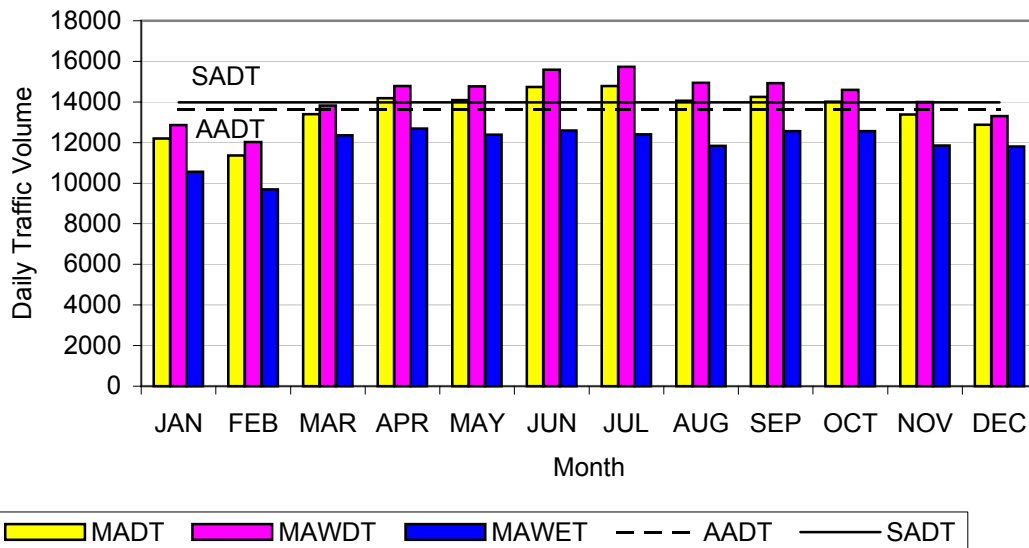
Note: Vehicle Classifications and Vehicle Occupancy values represented by 0% (No Occurrence) are not shown on the charts.

National Park Service Traffic Count Program

**VALLEY FORGE NATIONAL MILITARY PARK**

Station: 61011 S.H. 23 of Outer Line

Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	12206	12864	10562	1.0581	1.0865
2	2003	11360	12025	9699	1.1319	1.1623
3	2003	13400	13818	12354	0.9850	1.0115
4	2003	14183	14783	12683	0.9207	0.9455
5	2003	14084	14764	12384	0.9219	0.9467
6	2003	14736	15592	12594	0.8730	0.8964
7	2003	14781	15734	12401	0.8651	0.8883
8	2003	14054	14941	11837	0.9110	0.9355
9	2002	14255	14933	12562	0.9115	0.9360
10	2002	14017	14598	12567	0.9324	0.9575
11	2002	13384	13995	11856	0.9726	0.9987
12	2002	12874	13302	11804	1.0232	1.0507
Annual Average Daily Traffic (AADT)				13611		
Annual Average Weekday Traffic (AAWDT)				14279		
Annual Average Weekend Traffic (AAWET)				11942		
Seasonal Average Daily Traffic (SADT)				13977		



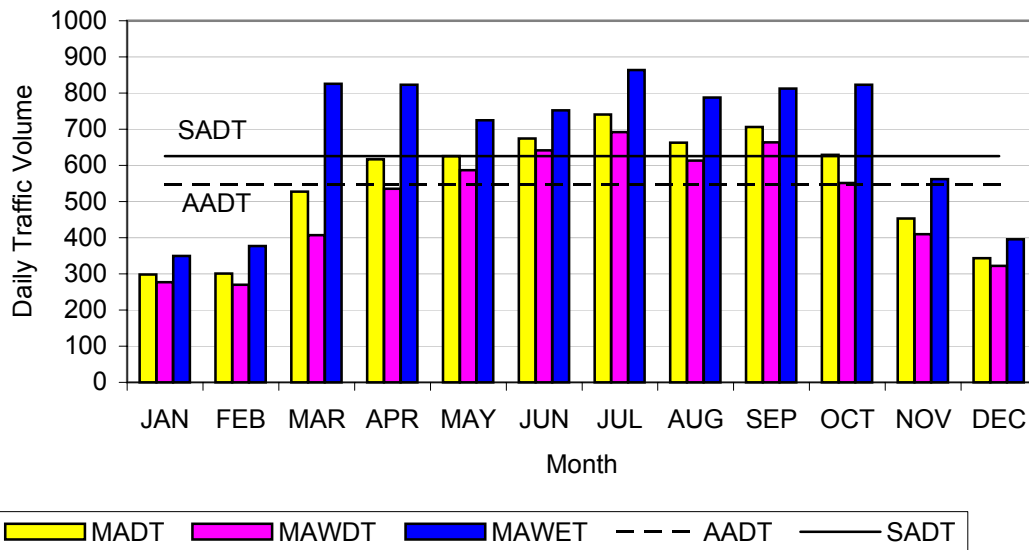
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
 SADTF is used to adjust coverage traffic volumes to SADT volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

National Park Service Traffic Count Program

**VALLEY FORGE NATIONAL MILITARY PARK**

Station: 61012 One-Way Return Road from Visitor Center to S.H. 23

Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	298	277	350	1.9789	2.2599
2	2003	301	270	377	2.0302	2.3185
3	2003	527	407	826	1.3468	1.5381
4	2003	617	535	823	1.0246	1.1701
5	2003	626	587	725	0.9338	1.0664
6	2003	674	642	752	0.8538	0.9751
7	2003	741	692	864	0.7921	0.9046
8	2003	663	613	788	0.8942	1.0212
9	2002	706	664	812	0.8256	0.9428
10	2002	629	551	823	0.9949	1.1361
11	2002	453	410	562	1.3370	1.5268
12	2002	343	322	396	1.7024	1.9441
Annual Average Daily Traffic (AADT)				548		
Annual Average Weekday Traffic (AAWDT)				498		
Annual Average Weekend Traffic (AAWET)				675		
Seasonal Average Daily Traffic (SADT)				626		



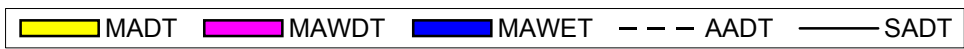
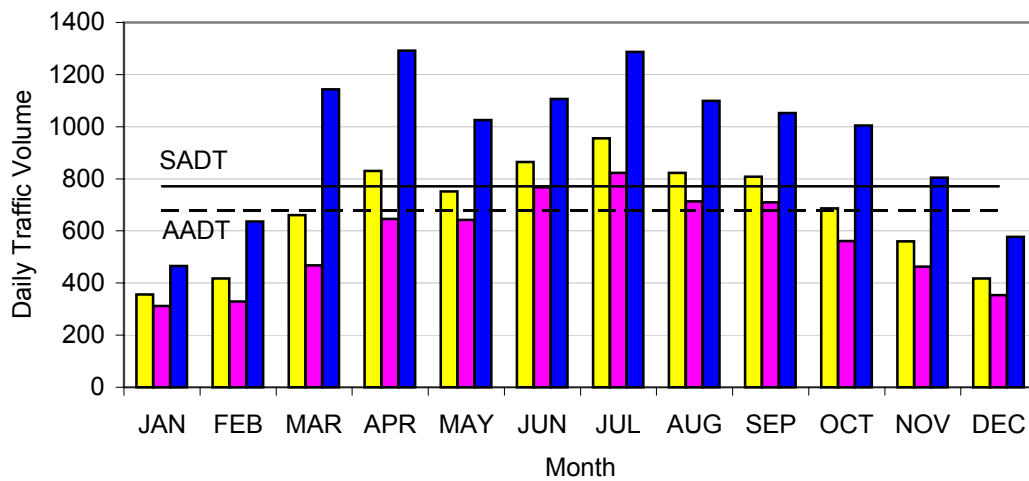
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
 SADTF is used to adjust coverage traffic volumes to SADT volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

National Park Service Traffic Count Program

**VALLEY FORGE NATIONAL MILITARY PARK**

Station: 61013 Outer Line West of Visitor Center

Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)*	Seasonal Average Daily Traffic Factor (SADTF)*
1	2003	356	312	466	2.1717	2.4712
2	2003	417	329	636	2.0595	2.3435
3	2003	661	468	1143	1.4478	1.6474
4	2003	830	646	1292	1.0489	1.1935
5	2003	752	642	1025	1.0554	1.2009
6	2003	865	768	1106	0.8823	1.0039
7	2003	955	823	1287	0.8233	0.9368
8	2003	823	713	1099	0.9503	1.0813
9	2002	808	710	1052	0.9543	1.0859
10	2002	687	561	1004	1.2078	1.3743
11	2002	560	463	804	1.4635	1.6652
12	2002	417	354	577	1.9141	2.1780
Annual Average Daily Traffic (AADT)				678		
Annual Average Weekday Traffic (AAWDT)				566		
Annual Average Weekend Traffic (AAWET)				958		
Seasonal Average Daily Traffic (SADT)				771		



Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
 SADTF is used to adjust coverage traffic volumes to SADT volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.  
 \* These factors are developed for adjustment of weekday 48-hour counts

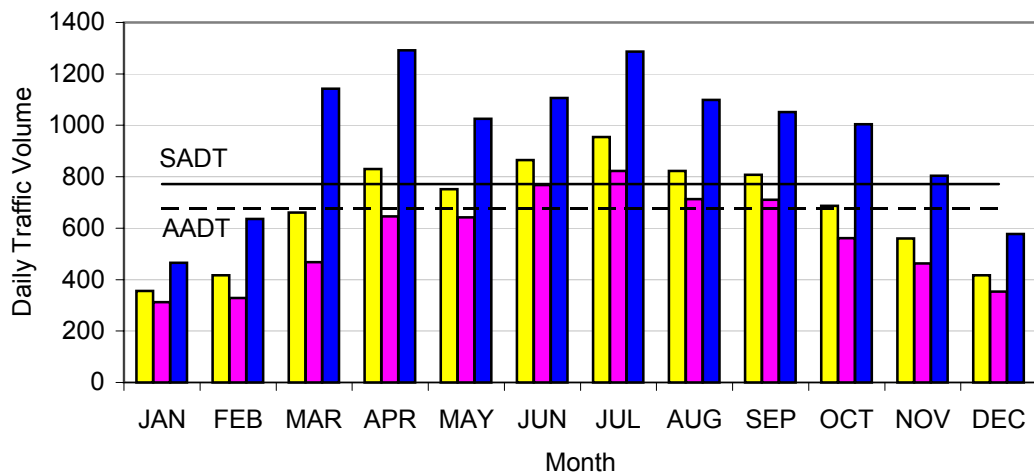


National Park Service Traffic Count Program

**VALLEY FORGE NATIONAL MILITARY PARK**

Station: 61013 Outer Line West of Visitor Center

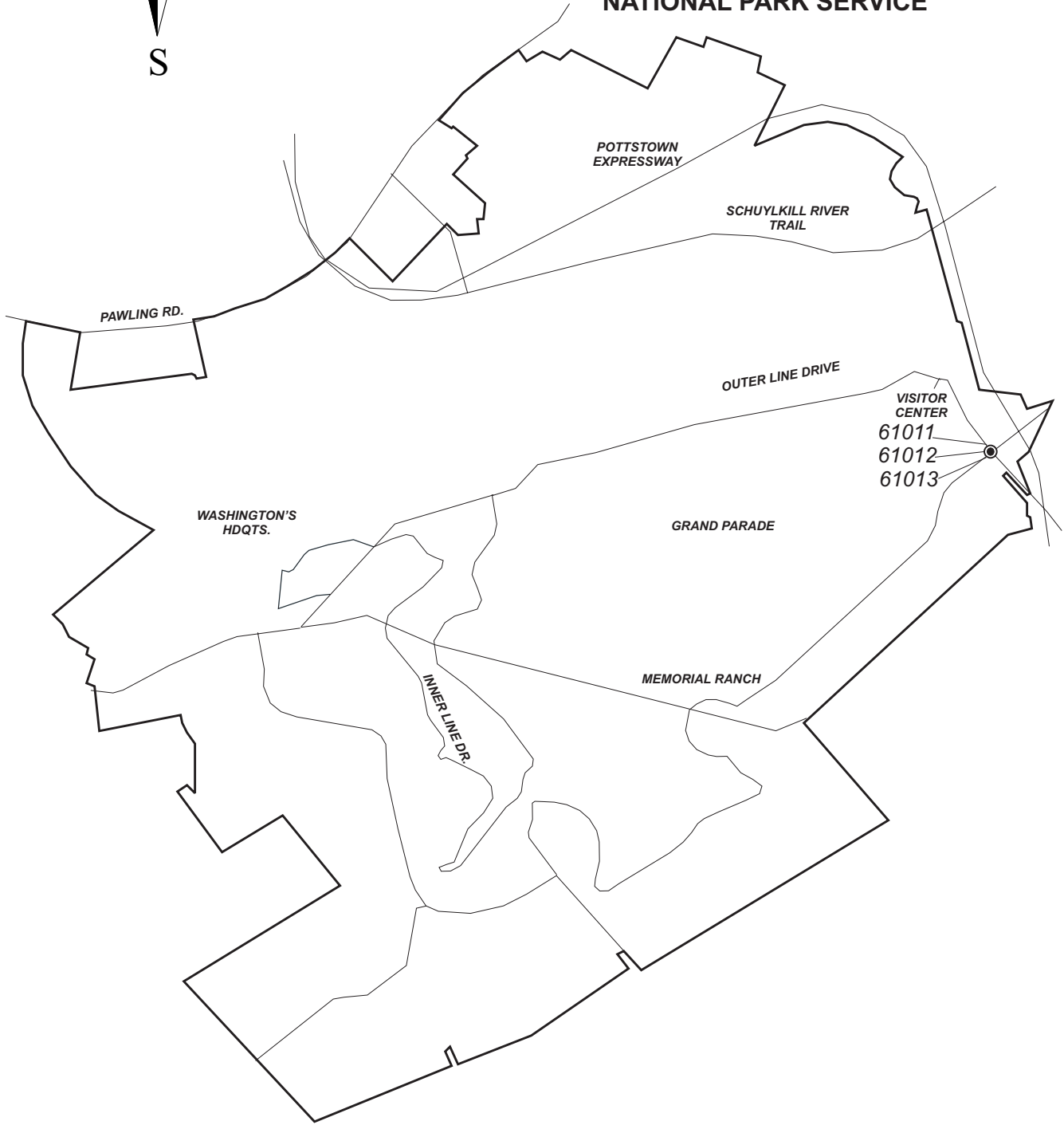
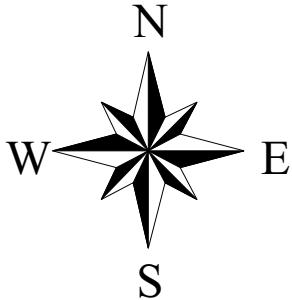
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)*	Seasonal Average Daily Traffic Factor (SADTF)*
1	2003	356	312	466	1.4540	1.6545
2	2003	417	329	636	1.0654	1.2123
3	2003	661	468	1143	0.5928	0.6745
4	2003	830	646	1292	0.5244	0.5967
5	2003	752	642	1025	0.6611	0.7522
6	2003	865	768	1106	0.6126	0.6971
7	2003	955	823	1287	0.5265	0.5991
8	2003	823	713	1099	0.6165	0.7015
9	2002	808	710	1052	0.6441	0.7329
10	2002	687	561	1004	0.6749	0.7679
11	2002	560	463	804	0.8428	0.9590
12	2002	417	354	577	1.1743	1.3362
Annual Average Daily Traffic (AADT)				678		
Annual Average Weekday Traffic (AAWDT)				566		
Annual Average Weekend Traffic (AAWET)				958		
Seasonal Average Daily Traffic (SADT)				771		



Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
 SADTF is used to adjust coverage traffic volumes to SADT volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.  
 \* These factors are developed for adjustment of weekend 48-hour counts

# Valley Forge National Historical Park

Pennsylvania  
U.S. Department of Interior  
NATIONAL PARK SERVICE







[www.eresconsultants.com](http://www.eresconsultants.com)

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