

FINAL REPORT



National Park Service *2004 Traffic Data Report*

prepared for

**Federal Highway Administration
Eastern Federal Lands Highway Division**

in association with

**National Park Service
Park Operation and Education
Facility Management Division**

prepared by

Applied Research Associates, Inc.

June 2005

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Section 1

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1.1 Glossary of Terms and Acronyms

AADT - Annual Average Daily Traffic. The average daily volume of traffic estimated on a yearly basis based on one year (365 days) of data.

AADTF - Average Annual Daily Traffic Factor. The AADTF provides the day-of-week and monthly adjustment of coverage traffic volumes with respect to the AADT.

AASHTO - American Association of State Highway and Transportation Officials.

AAWDT - Annual Average Weekday Traffic. To compute this statistic, the MAWDT's for each month are summed and then divided by 12.

AAWET - Annual Average Weekend Traffic. To compute this statistic, the MAWET's for each month are summed and then divided by 12.

ADT - Average Daily Traffic. The total volume of traffic during a given time period (in whole days greater than one day and less than one year) divided by the number of days in that time period. ADT volumes can be determined by continuous traffic counts or periodic counts. Where only periodic traffic counts are taken, ADT volume can be established by applying correction factors such as for season or day of week. For roadways having traffic in two directions, the ADT includes traffic in both directions unless specified otherwise.

ATR - Automated Traffic Recorder

AWDT - Average Weekday Daily Traffic. The total traffic volume for an average weekday. AWDT is a representative weekday traffic volume computed as the mathematical average of typical weekday volumes selected throughout the year. A typical weekday has no anomaly such as heavy traffic due to a special public event or light traffic due to inclement weather.

AWET - Average Week End daily Traffic. The total traffic volume for an average Saturdays weekend day (Saturday or Sunday). AWET is a representative weekend traffic volume computed as the mathematical average of typical weekend days selected throughout the year. A typical weekend day has no anomaly such as heavy traffic due to a special public event or light traffic due to inclement weather.

DHV - Design Hour Volume, the DHV is the thirtieth highest hourly two-way traffic volume for the design year, commonly twenty years from the time of construction. The DHV is given in units of vehicles per hour.

FOTSC – Field Operations Technical Support Center

FHWA – Federal Highway Administration, the lead agency for this project.

FLH – Federal Lands Highway

GIS – Geographical Information System

GPS – Global Positioning System

K-Factor – A factor which represents the proportion of AADT expected to occur in the design hour. The K-factor is also known as the design hour factor and is normally expressed in design problems as $DHV = AADT \times K$

LTPP – Long-Term Pavement Performance

MADWT – Monthly Average Day of the Week Traffic, averaged daily traffic volumes for each of the seven days of the week are for each month.

MAWDT – Monthly Average Weekday Traffic, the MADWT for Monday through Friday are summed and then divided by 5.

MAWET – Monthly Average Weekend Traffic, the MADWT for Saturday and Sunday are summed and then divided by 2.

MADT – Monthly Average Daily Traffic, the MADWT for Monday through Sunday are summed and then divided by 7.

NPS – National Park Service

PDS – Percentile Directional Split. The PDS is the percentage of the total, two-way peak hour traffic traveling in the peak direction. For continuously monitored sites, the peak hour traffic is determined as the 30th highest hour of the design year. For the short duration 48-hour coverage sites, the peak hour of the base 24-hour volume is used in the directional split computation.

Reference Station – an ATR reference station used to obtain seasonal and annual adjustment factors for coverage counts.

RIP – Road Inventory Program

SADT – Seasonal Average Daily Traffic. An average daily traffic volume computed for the season defined as those full months that contain 80 percent of the annual traffic

volume. A park may have more than one season; therefore, the months used in SADT computation may not be consecutive.

SADTF - Seasonal Average Daily Traffic Adjustment Factors, used to estimate the SADT based on the coverage counts. The SADTF provides the day-of-week and monthly adjustment of coverage traffic volumes with respect to the SADT volume.

TMG - Traffic Monitoring Guide

VMT - Vehicle miles traveled a unit of measure that is used to calculate the total miles traveled by vehicles in a specified area for a specific period of time.

1.2 Introduction

This report contains the results of the traffic data study conducted as a part of the National Park Service (NPS) Traffic Monitoring Program designed to provide system coverage traffic data. In addition to the results obtained during current traffic data collection effort, the report includes summary results and traffic statistics from the similar efforts done in 1988, 1991, and 1994. The reader should note that although the information presented in this report and in the traffic database has been thoroughly reviewed, the statistics used to develop the report, as all statistics, are subject to accuracy limits. Therefore, while this report is intended to provide a representation of actual situations, it is not presented, nor should it be interpreted, as absolute facts.

1.2.1 The NPS/FHWA Traffic Monitoring Program Overview

This report is part of an ongoing program managed jointly by the NPS and the Federal Highway Administration (FHWA) to monitor traffic on national park roads and provide information in support of traffic safety, transportation planning, visitor-use planning, roadway maintenance, bridge and pavement management, and traffic operations programs.

In 1984, the Branch of Transportation of the NPS Denver Service Center began installing a system of permanent traffic counting equipment. By 1989, equipment had been installed at all 59 park units planned for in the program. In subsequent years, a number of parks have been withdrawn from the program based on evaluations of their traffic data and the need to make more effective use of the staffing available to conduct the program. The parks remaining in the program today represent those with the highest traffic and include parks with notable traffic safety concerns.

The traffic data collection program at each park unit consists of four types:

1. Continuous volume counts at limited permanent locations.
2. Short-term volume counts covering a large number of locations.
3. Short-term manual vehicle classification counts at strategic locations.
4. Short-term manual vehicle occupancy counts at strategic locations.

1.2.2 Report Organization

This report represents a 2004 update of the 1994 report. This report consists of two sections and an appendix. Section 1 includes a discussion of the information in this report and the procedures and guidelines used in its generation. The subjects discussed are as follows:

- Glossary of Terms and Acronyms
- Introduction

- Data Collection
- Quality Control/Quality Assurance Procedures
- Data Analysis
- Data Retention
- VMT Summary by Park

Section 2 contains Park Traffic Packages for the individual parks. The organization, contents, and details on the individual sheets included in the Park Traffic Packages are described at the beginning of Section 2. The traffic database developed during the course of this study is provided on a CD as part of the Appendix A.

1.3 Data Collection

1.3.1 Automatic Traffic Recorder Station Data

Each park included in the study contains at least one Automatic Traffic Recorder (ATR) that provides continuous counts on a roadway within the park. Continuous counts are taken up to 365 days a year. ATR data are collected for each lane equipped with a detector loop that is connected to an ATR unit. The counts are transmitted to the Field Operations Technical Support Center (FOTSC) of the NPS Washington office located in Denver, Colorado where they are processed to obtain monthly reports by hour and by lane. Each monthly report is then pre-screened to identify the obvious data anomalies and then saved to an ASCII file that is stored on a designated computer. Each ASCII file contains the hourly traffic volume information by lane for a given ATR station and a given month. For the years 2000-2004, these data were obtained and processed through a series of edit checks as recommended in the *AASHTO Guidelines for Traffic Data Programs* [1] and the *FHWA Traffic Monitoring Guide* [2]. The data for the 12 most recent months were used to estimate the AADT and SADT for the roads covered by ATRs and to compute annual and seasonal adjustment factors needed to convert the short duration traffic volume counts into AADT, SADT, and VMT estimates.

1.3.2 Coverage Count Data

In addition to the permanent ATRs collecting data throughout the parks, coverage traffic volume counts were conducted in each park by data collection crews using pneumatic road tube and portable counters. The coverage counts consisted of short-term 48-hour counts collected on homogenous traffic sections and distributed throughout the park road network to provide a representative coverage of the road system within each park unit. The *FHWA Traffic Monitoring Guide* [2] states a roadway “segment” is treated as homogenous traffic section if traffic volume is essentially the same for the entire segment. The homogenous traffic sections for the NPS road networks were defined as follows:

- For limited access highways (like parkways), segments were bounded by interchanges.
- For rural or local access roads, where access and egress along a several-mile segment is limited to a few driveways, segments were bound by major intersections.

Coverage Count Schedule

Whenever possible, the coverage counts were conducted during the park's high visitation season. The park visitation season was based on the full months that carry 80 percent of the annual traffic of that park. In addition, the traffic patterns within each park were analyzed to determine if the park has predominantly weekday or weekend traffic. This information was used to schedule the data collection of the coverage counts. Information about the dates when actual coverage counts were collected is provided in the *Traffic Volume Summary* sheets included in each *Park Traffic Report* package; Section 2 of the report.

After each coverage count was conducted, the data were quality checked before leaving the park to determine if any recounts were necessary. Quality checked data were delivered for processing and quality assurance. In the cases where 48-hour coverage count data did not pass the quality checks, the count was recollected. As a result, Grand Teton, George Washington Memorial Parkway, Valley Forge, and Yellowstone parks have more than one data collection period, as shown in the *Summary Sheets* of the *Park Traffic Report* packages for these parks. For Sequoia/Kings Canyon National Park, limited data from a new ATR station, 52011, was used as a coverage count data source for one of the road links.

In addition, for Yellowstone stations 27042 and 2734 data were not collected due to fires in the vicinity. For Big Bend stations 5621 and 5622 were not collected due to washout. For Mammoth Cave Station 3213 data were not collected due to road closure. No coverage counts were collected in Rock Creek Park. Government provided data were used for AADT estimation for the Rock Creek Park. The AADT estimates for the road sections covered by these stations were based on the average traffic growth estimated for each park applied to the last available historical AADT information.

Short duration traffic counts only measure the traffic conditions when the counts are taken. To use these data to estimate "average" conditions and to develop traffic volume statistics, adjustments were made to account for the variability in the traffic flow for the year. To determine an approximate AADT and SADT for the roadway, each coverage count was factored using an annual average daily traffic factor and a seasonal average daily factor from the assigned referenced permanent ATR station. Details on the coverage count data processing and analysis are provided in the *Data Analysis* section of this report.

1.3.3 Vehicle Occupancy and Classification Data

While the data collection crews were at each park, vehicle occupancy and vehicle classification data were collected at selected locations for at least 8 consecutive hours. Locations for the vehicle occupancy and vehicle classification studies were selected to capture typical traffic composition on the park's roads. Data collectors used an electronic count board to enter the classification and/or occupancy for each location. In addition to the manual count, a digital video was taken of traffic and used to verify the manually collected data. Vehicle classification data were collected for the categories described in Table 1. Vehicle Occupancy data were collected for the categories described in Table 2. Vehicle classification and occupancy data were used to create the *Traffic Compositions Summary* pages for the individual park packages presented in the Section 2.

Table 1. NPS Vehicle Classification Categories.

NPS No.	Vehicle Type	FHWA Vehicle Class	Notes
1	Motorcycle	Class 1	Any motorized cycles
2	Passenger Vehicles	Class 2	Including SUV and non-commercial pick-up trucks
3	Recreational Vehicles (RVs)	N/A	Single units, all sizes
4	Vehicles pulling trailers or RVs	N/A	RV pulling a trailer, or vehicle pulling RV trailer
5	Transit Buses	Class 4	City busses and shuttle busses
6	Tour Buses	Class 4	Private tour operated
7	Light-duty Trucks	Classes 3 and 5	Commercial
8	Heavy-duty Trucks	Classes 6 - 13	Combined

Table 2. NPS Vehicle Occupancy Categories.

NPS No.	Vehicle Occupancy
1	Single Occupant
2	2 Occupants
3	3-6 Car Load
4	More than six(non-Bus vehicle load)
5	Empty Passenger Bus
6	Few Passenger Bus
7	Semi-Loaded Passenger Bus
8	Fully Loaded Passenger Bus

1.4 Quality Control/Quality Assurance Procedures

Before conducting traffic data studies, a Quality Assurance (QA) Plan was developed. The purpose of the QA Plan was to ensure the Government that the data collection and analysis performed under this study adequately conforms to the *FHWA Traffic Monitoring Guide* [2], the *AASHTO Guidelines for Traffic Data Programs* [1] and other applicable standards. In accordance with the principle of “Truth-in-Data” principle, the established standards and safeguards were applied to every aspect of data collection and analysis including personnel, vehicles, equipment and traffic data editing methodology, as described in the following sections.

1.4.1 Personnel

The project team used qualified and experienced field technicians and data analysts with multi-year, job-related experience. The staff was trained to put safety and quality of work first and to be time and cost effective in performing their duties. The contractor stresses the safety of its workers and public safety, especially when traffic studies are being performed. Neon safety vests, proper clothing, and traffic awareness were mandatory. Each field technician carried cellular phones and/or two-way radios to assure frequent communication with the office, other field technicians, and park management to ensure efficiency and to safely and quickly resolve any issues that arise during the data collection phase. Each technician was responsible for keeping updated logs on vehicle maintenance and performance, count equipment maintenance and performance, and a site log to document the time and location of each site’s setup and notes describing the work performed.

1.4.2 Vehicles

Vehicles used by the project team were marked with company logos. The vehicles were equipped with safety light bars and strobes and are designed for off-road activities. Each vehicle was maintained according to the manufacturer’s requirements. It is a mandatory contractor’s policy for all drivers to follow local driving and traffic regulations. Due to the need to park vehicles off the road in order to perform traffic studies, particular attention was paid to prevent and correct leaks (fuel, oil, anti-freeze, fluids, etc.) and in the method of pulling off and onto the road to prevent scarring and rutting of the areas adjacent to the pavement.

1.4.3 Equipment

Quality control procedures/standards were developed to assure the proper operation and long-term effectiveness of the equipment. As part of this study, the project team conducted three types of data collection activities:

- 48-Hour Volume Counts
- Manual Classification and Occupancy Studies

- GPS Data Collection

For each type of study, a set of Quality Control (QC) Procedures was developed for the operators to adhere to.

48-Hour Volume Counts

A portable automatic traffic recorder (ATR) was used to perform these studies. ATRs are battery operated event-recording devices that use inputs from pneumatic road tube. To ensure these devices operate properly, continuously, and provide accurate data, the following QC procedures were established.

General Procedures:

- Coverage counting equipment must provide accurate counts within +/- 8% of the recorded manual counts
- Each technician shall verify proper operation of counting equipment stationed in place by comparing manual counts recorded over a period of one hour or until fifty counts are recorded with the counts recorded in the vehicle counter
- 48-hour counts will not commence unless the equipment passes the manual comparison test
- Counts shall be scheduled for times where data validity will not be compromised by road construction, special events (in or near the park), and significant weather conditions which would result in atypical visitation levels
- The Contractor shall notify the Government verbally and in writing when all data collection in a Park is complete. If completeness of data is not achieved and retaking is required, then the Contractor shall immediately notify the Park and Government.

Pre-study Testing (testing for equipment malfunctions):

- ATR batteries will be tested for proper charge with mandatory replacement every three months
- ATR onboard clocks will be synchronized to proper time/time zone
- ATR will undergo full onboard diagnostics
- Pneumatic tubes will be pressure tested for leaks; suspect tubes will be replaced
- Test studies will be inputted to test data acquisition, storage and retrieval

During Study Testing (as data is being collected):

- Field technicians will visit each site twice daily and will monitor vehicles and compare to equipment counts to check for continued accuracy
- Pneumatic tubes will be visually checked for movement, adherence to the road surface, and appearance
- Traffic counters will be used to monitor vehicles to ensure proper counting
- Traffic counter clocks will be checked for accuracy

- Battery voltages will be checked for proper charge

Post Study Testing (after 48-hour period has expired and prior to leaving park)

- Pneumatic tubes will be visually checked for movement, adherence to the road surface, and appearance
- Traffic counters will be used to monitor vehicles to ensure proper counting
- Traffic counter clocks will be checked for accuracy
- Battery voltages will be checked for proper charge
- Field data review: data will be downloaded and visually verified for reasonability by comparing to historical data, other study sites, and/or generic flags (multiple zero counts, data drop-off, midnight to midnight counts, etc.)

Manual Classification and Occupancy Studies

An electronic count board was used by the field technician to enter the classification and/or occupancy for each study. These boards are designed to electronically store counts from various studies with the required drop intervals. Classification bins can be customized to fit any requirement up to 15 bins. A digital video of traffic was taken during the study and used to verify the accuracy of manually collected data. To ensure accuracy of manual classification and occupancy studies, the following QC procedures were established.

General Procedures:

- Counts shall be scheduled for times where data validity will not be compromised by road construction, special events (in or near the park), and significant weather conditions which would result in atypical visitation levels.
- A digital video of traffic should be taken during the study and used to verify the accuracy of manually collected data.
- The Contractor shall notify the Government verbally and in writing when all data collection in a Park is complete. If completeness of data is not achieved and retaking is required, then the Contractor shall immediately notify the Park and Government.

Pre-study Testing (testing for equipment malfunctions):

- Count board batteries will be tested for proper charge with mandatory replacement every three months
- Count board onboard clocks will be synchronized to proper time/time zone
- Count boards will undergo full onboard diagnostics
- Test studies will be inputted to test data acquisition, storage and retrieval
- Video cameras will be tested for operability
- Field technicians will choose a location that allows a full and unobstructed view of vehicles, safe, and non-attention drawing
- Field technicians will perform study during daylight hours

During Study Testing (as data is being collected):

- Count board clocks will be checked for accuracy
- Battery voltages will be checked for proper charge
- Video cameras will be monitored to ensure proper viewing and focus

Post Study Testing (after 48-hour period has expired and prior to leaving park)

- Count board clocks will be checked for accuracy
- Battery voltage will be checked for proper charge
- Field data review: data will be downloaded and visually verified for accuracy by comparing video data to manual count

GPS Data Collection

The field crews kept the records of GPS equipment calibration that check the compliance with the equipment manufacturer's recommendation.

1.4.4 ATR Data QA Procedures

This section of the report contains procedures for editing traffic data that were developed and implemented in the course of the study. The procedures were developed in accordance with the principle of Truth-in-Data, as stated in the *AASHTO Guidelines for Traffic Data Programs* [1].

Pre-screened ATR data were obtained from the FOTSC in a form of electronic monthly reports containing hourly traffic volume data for each day of the month and each traffic lane. These data were subjected to a series of rigorous Quality Assurance (QA) checks based on the procedures recommended in the reference documents identified in the *FHWA Traffic Monitoring Guide* [2]. The following documents containing Traffic data QA procedures and recommendations were considered in this study:

- *AASHTO Guidelines for Traffic Data Programs* [1]
- Minnesota pooled fund study to examine automated data collection procedures [5]
- QA procedures implemented in the FHWA LTPP program [6]
- QA procedures utilized in *1994 NPS Traffic Report* [4]

The *AASHTO Guidelines for Traffic Data Programs* [1] was used as our main source for the development of the QA procedures. Additionally, the documentation developed by the Minnesota pooled fund study [5], traffic data QA procedures implemented in the FHWA LTPP program [6] and the QA procedure from the *1994 NPS Traffic report* [4] were utilized.

Accounting for the unique nature of traffic flow within the national parks, the following data QA checks were developed and implemented in this study:

- Check 1: *Identification Check* – Check if month, date, station, lane, and direction are properly identified and correct. If any anomalies are found, a request was sent to FOTSC to verify the data. The data were not processed further until identification information was verified and corrected.
- Check 2: *Data Validity* – If the recorded traffic volume for any hours contains a null (empty field), a negative integer or an otherwise invalid value, then the entire day was flagged as being anomalous. All the data from that day for that roadway were excluded from summarization.
- Check 3: *Continuous 24-Hour Data* – The data were checked to insure that 24 hours of continuous data were provided for each day and for each lane of the roadway. If a day of data did not have 24 hours of data in one of the lanes (located on the same roadway), all the data from that day for that roadway were excluded from summarization.
- Check 4: *Time Check Edit* – If hourly volume for any day at 1:00 a.m. exceeded hourly volume at 1:00 p.m. for the same lane, the data were flagged for review and analysis to determine if there was an accident or road closure. A request was sent to the FOTSC to determine if the clock may be incorrect or equipment failure may have arisen midday. If one of these reasons was identified, all the data from that day for that roadway were excluded from summarization.
- Check 5: *Continuous Zero Volume* – If a zero volume occurred on a lane for 12 continuous hours, the data were flagged for review and analysis to determine if there was a detector malfunction at the site. If no malfunction was reported, and the pattern seems reasonable for a given site, the data were accepted for further processing. Example of an acceptable continuous zero hourly volume would be a low volume road during off-season period.
- Check 6: *Same Non-Zero Volume* – If a same non-zero volume occurred on a lane for 4 continuous hours, the data were flagged for review and analysis to determine if there was a detector malfunction at the site. If no malfunction was reported, and the pattern seems reasonable for a given site, the data were accepted for further processing. Example of an acceptable same non-zero hourly volume would be a low volume road in early morning or late evening hours showing 1 vehicle per hour for 4 or more hours.
- Check 7: *Volume by Direction* – At those stations where a two-way volume is collected, the data from each direction were compared to the total two-way volume. If

- a particular direction had more than 80% of the total traffic for the whole day on the two-way link, the data were flagged for review and analysis to determine if there has been a constraint to typical operating conditions, such as lane closure. If no constraints was reported and the ATR was found to be operational, then data were accepted or rejected from further summarization based on the operating characteristics of the site. Example of an acceptable high volume in one direction would be a road serving a winter ski area with high inbound volumes on Saturday, and high outbound volumes on Sunday.
- Check 8: *Peak Hour Volume* – A typical roadway will experience a peak in both the AM and PM time periods, usually containing approximately 10 percent of the traffic on that roadway in the peak hour. The edit check was conducted to flag those days where the AM or PM peak hour contains more than 40% of the traffic on that link for the day. Flagged data were reviewed to determine if there has been a constraint to typical operating conditions, such as lane closure. If no constraints was reported and the ATR was found to be operational, then data were accepted or rejected from further summarization based on the operating characteristics of the site.
- Check 9: *Extreme Hourly Volume per Lane* – In this test the volume recorded for each hour of the day was compared to a fixed maximum physical value of 2500 vehicles per lane per hour. Volumes that exceed this maximum value were flagged for review and analysis to check for problems with the traffic recording equipment.
- Check 10: *Daily Traffic Volumes* – The traffic volumes at each station were aggregated to daily values for each day of the week. A statistical analysis was performed on the data by day of the week. If a particular station has a difference in daily traffic volume greater than three standard deviations from the annual mean for that particular day of the week, the data for this day were flagged for review and analysis to determine if the data are valid for the site. The three standard deviations criterion was selected based on the expected high variation in traffic volume on low-volume park roadways and is consistent with the QA procedure implemented in the 1994 report.
- Check 11: *Temporal Consistency Check* – The aggregated daily ATR traffic volumes for each day of the week for the month of coverage counts were compared to the Monthly Average Day-of-Week Traffic (MADWT) volumes for each day-of-week for the same month of the previous year. If aggregated daily traffic volumes differ by more than 2 standard deviations from the previous year's MADWT volumes for that particular day-of-week for that month, these data were flagged for review and analysis to determine if the data are valid for the site.

Data that passed QA checks were used to develop traffic summary statistics and traffic data adjustment factors from each permanent ATR station. These data are included in the traffic database presented in Appendix A.

For the parks road links referencing the ATR stations that are no longer in use or the parks road links where no 12-month periods of ATR data could be identified, the ATR adjustment factors from the 1994 NPS Traffic Report were utilized to develop representative traffic statistics. The ATR data QA procedures implemented in the 1994 NPS Traffic Report were reviewed and were found to comply with the QA guidelines outlined in the *FHWA Traffic Monitoring Guide* [2], the *AASHTO Guidelines for Traffic Data Programs* [1]. As such, no reprocessing of the 1994 data was undertaken under the current study.

1.4.5 Coverage Count Data QA Procedures

Collected raw coverage data were subjected to a series of edit checks as recommended in the *AASHTO Guidelines for Traffic Data Programs* [1] and the *FHWA Traffic Monitoring Guide* [2]. Using these guidelines and accounting for the unique nature of the coverage counts within the national parks, the following data QA checks were developed:

- Check 1: *Identification Check* – Check if month, date, station, lane, and direction are properly identified and correct. The data will not be processed further until identification information is verified and corrected.
- Check 2: *Minimum Count Duration* – Check if data are reported for a total of 48 hours. If less than 48-hours are reported, check to insure that at least 32 hours of continuous data are available. If less than 32 hours of continuous data are available, all the data from that 48-hour coverage period will be rejected.
- Check 3: *Data Validity* – If the recorded traffic volume for any hours contains a null, a negative integer or an otherwise invalid value, then these hours will be excluded from the summarization.
- Check 4: *Time Check Edit* – If the hourly volume for any day at 1:00 a.m. exceeds the hourly volume at 1:00 p.m. for the same lane, a check of equipment will be conducted to determine if the clock may be incorrect or equipment failure may have arisen midday.
- Check 5: *Continuous Zero Volume* – If a zero volume occurred on a lane for 12 continuous hours, a check of equipment will be conducted to determine if there was a detector malfunction. If no malfunction is reported, and the

- pattern seems reasonable for a given site based on the pattern observed at nearby stations, the data will be accepted for further processing.
- Check 6: *Same Non-Zero Volume* – If the same non-zero volume occurred on a lane for 4 continuous hours, a check of equipment will be conducted to determine if there was a detector malfunction. If no malfunction is reported, and the pattern seems reasonable for a given site based on the pattern observed at nearby stations, the data will be accepted for further processing.
- Check 7: *Volume by Direction* – At the stations where a two-way volume is collected, the data from each direction will be compared to the total two-way volume. If a particular direction has more than 80% of the total traffic for the whole day on the two-way link, the data will be reviewed and a decision will be made whether to accept or to reject data from further summarization based on the operating characteristics of the site. Example of acceptable high volume in one direction would be a road serving a winter ski area with high inbound volumes on Saturday, and high outbound volumes on Sunday.
- Check 8: *Peak Hour Volume* – The edit check will flag those days where the AM or PM peak hour contains more than 40% of the traffic on that link for the day. These data will be reviewed and a decision will be made whether to accept or to reject data from further summarization based on the operating characteristics of the site.
- Check 9: *Extreme Hourly Volume per Lane* – In this test the volume recorded for each hour of the day will be compared to a fixed maximum physical value of 2500 vehicles per lane per hour. Volumes that exceed this maximum value would be flagged and a check of equipment will be conducted to determine if there was a detector malfunction.
- Check 10: *Spatial Consistency Check* – A spatial check will be conducted for the data anomalies identified in QA checks 4 through 9. Anomalous traffic counts will be compared with the counts taken from the nearby stations located on the same road, during the same time interval, as the questionable count.
- Check 11: *Minimum Amount of Valid Data* – Check if minimum of 32 consecutive hours of valid edited data are available after all previous QA edits. If less than 32 hours of continuous edited data are available, all the data from that 48-hour coverage period will be rejected.
- Check 12: *Maximum Error Intervals* – Check if maximum error interval exceeds 6 consecutive hours. If more than 6 consecutive hours of data contain errors, all the data from that 48-hour coverage period will be rejected.

In addition, traffic statistics computed using coverage count data were compared with traffic statistics derived based on the historical coverage counts conducted in 1988, 1991 and 1994 to check for temporal trends.

1.5 Data Analysis

The objective of the data analysis task was to develop traffic statistics and representative traffic values for the park traffic links covered under the NPS Traffic Monitoring Program. Traffic statistics and representative traffic values were developed utilizing the available continuous count data, short-duration coverage counts, and when necessary, historical data to check and supplement current data, as described in the following sections.

1.5.1 ATR Data Summarization

ATR Data Analysis Period

ATR data were used to develop the seasonal traffic adjustment factors and to compute the traffic summary statistics. The adjustment factors are needed to expand 48-hour coverage counts to annual traffic estimates. ATR data collected over a 12-month period were used for the data analysis and summarization. Whenever available, the ATR data from a continuous 12-month period ending with the coverage count month were utilized. The 12-month ATR analysis period was defined for each park based on the coverage count schedule. Typically, the ATR analysis period for a given park would start with the month following the coverage count month for the previous year and end with the month when actual coverage counts are taken. For example, if coverage counts are scheduled for the month of June 2004, then the 12-month analysis period would start in July 2003 and end in June 2004. The adjustment factors, developed using this approach, accurately depict traffic trends for the 12-month period ending by the month of coverage counts.

In some circumstances it was not be possible to obtain 12-months of ATR data, ending with a coverage count month, mostly due to intermittent problems with the ATR equipment. In these cases, the closest consecutive 12-month period of available ATR data was used, going back to 1994. If only 10 or 11 consecutive months of ATR data was identified in the period, data for one or two months from a previous year or a following year was substituted to obtain a 12 month period of ATR data.

For the parks road links referencing the ATR stations that are no longer in use or the parks road links where no 12-month periods of ATR data could be identified, season adjustments of 48-hour coverage counts were made using the following two approaches listed in the order of preference:

- Statistical technique called cluster analysis was used to identify what ATR stations within the park have similar seasonal traffic trends. Recent continuous data (12-months) from the ATR stations identified as “similar” (based on the cluster analysis results) were used for seasonal adjustment factoring in place of the data from ATR stations that are no longer in service.
- The ATR adjustment factors from the 1994 NPS Traffic Report were used to expand the 48-hour coverage counts to obtain the annual traffic estimates. Prior to using the historical adjustment factors, the available historical data were analyzed to see if the seasonal traffic pattern is stable or changes from year to year. If significant changes in the seasonal pattern were detected over the years, the 48-hour coverage counts were adjusted to annual traffic estimates using monthly averages of all available historical adjustment factors for the reference ATR site.

ATR Summary Statistics

After the QA checks were completed, ATR daily traffic volume summaries were computed from the hourly data and were used to develop the following traffic statistics for each road link with ATR detectors:

- Monthly Average Days of the Week Traffic (MADWT)
- Monthly Average Weekday Traffic (MAWDT)
- Monthly Average Weekend Traffic (MAWET)
- Monthly Average Daily Traffic (MADT)
- Annual Average Weekday Traffic (AAWDT)
- Annual Average Weekend Traffic (AAWET)
- Annual Average Daily Traffic (AADT)
- Seasonal Average Daily Traffic (SADT)
- Annual Average Daily Traffic Factor (AADTF)
- Seasonal Average Daily Traffic Factor (SADTF)
- Percentile Directional Split (PDS)
- Design Hourly Volume (DHV)

The following sections describe the computational procedures used to compute the ATR summary statistics and the traffic adjustment factors.

Compute Monthly Average Day of the Week Traffic (MADWT)

To compute this statistic, the daily traffic volumes for each of the seven days of the week are averaged for each month. For example, the daily traffic for all of the Mondays in January are added together and divided by the total number of Mondays in January to provide a MADWT for a Monday in January. These values will be used to calculate the remaining statistics for the report.

$$MADWT_{ij} = \frac{1}{n} \sum_1^n VOL_{ijn} \quad (1)$$

Where:

MADWT = Monthly average day-of-week traffic volume for day-of-week *i* and month *j*
VOL = Daily traffic volume for *k*-th occurrence of day-of-week *i* in the month *j*
i = Day of the week (Monday = 1, Tuesday = 2, Wednesday =3, Thursday = 4, Friday =5, Saturday = 6, Sunday =7)
j = Month of the year
n = the number of occurrences of day-of-week *i* during that month *j* (usually between 1 and 5, depending on the number of missing data).

Compute Monthly Average Weekday Traffic (MAWDT)

To compute this statistic, the MADWT for Monday through Friday are summed and then divided by 5.

$$MAWDT_j = \frac{1}{5} \sum_{i=1}^5 MADWT_{ij} \quad (2)$$

Where:

MAWDT = Monthly average weekday traffic volume for month *j*
MADWT = Monthly average day-of-week traffic volume for day-of-week *i* and month *j*
i = Day of the week (Monday = 1, Tuesday = 2, Wednesday =3, Thursday = 4, Friday =5, Saturday = 6, Sunday =7)
j = Month of the year

Compute Monthly Average Weekend Traffic (MAWET)

To compute this statistic, the MADWT for Saturday and Sunday are summed and then divided by 2.

$$MAWET_j = \frac{1}{2} \sum_{i=6}^7 MADWT_{ij} \quad (3)$$

Where:

MAWET = Monthly average weekend traffic volume for month *j*
MADWT = Monthly average day-of-week traffic volume for day-of-week *i* and month *j*
i = Day of the week (Monday = 1, Tuesday = 2, Wednesday =3, Thursday = 4, Friday =5, Saturday = 6, Sunday =7)
j = Month of the year

Compute Monthly Average Daily Traffic (MADT)

The AASHTO [1] formulation for calculation of MADT is used. To compute this statistic, the MADWT for Monday through Sunday are summed and then divided by 7.

$$MADT_j = \frac{1}{7} \sum_{i=1}^7 MADWT_{ij} \quad (4)$$

Where:

MAWDT = Monthly average weekday traffic volume for month *j*

MADWT = Monthly average day-of-week traffic volume for day-of-week *i* and month *j*

i = Day of the week (Monday = 1, Tuesday = 2, Wednesday = 3, Thursday = 4, Friday = 5, Saturday = 6, Sunday = 7)

j = Month of the year

Compute Annual Average Weekday Traffic (AAWDT)

To compute this statistic, the MAWDT's for each month are summed and then divided by 12.

$$AAWDT = \frac{1}{12} \sum_{j=1}^{12} MAWDT_j \quad (5)$$

Where:

AAWDT = Annual average weekday traffic volume

MAWDT = Monthly average weekday traffic volume for month *j*

j = Month of the year

Compute Annual Average Weekend Traffic (AAWET)

To compute this statistic, the MAWET's for each month are summed and then divided by 12.

$$AAWET = \frac{1}{12} \sum_{j=1}^{12} MAWET_j \quad (6)$$

Where:

AAWET = Annual average weekend traffic volume

MAWET = Monthly average weekend traffic volume for month *j*

j = Month of the year

Compute AADT from ATR Data

To compute AADT, the MADT's for all twelve months of the year are summed and then divided by 12.

$$AADT = \frac{1}{12} \sum_{j=1}^{12} MADT_j = \frac{1}{12} \sum_{j=1}^{12} \left(\frac{1}{7} \sum_{i=1}^7 \left(\frac{1}{n} \sum_{k=1}^n VOL_{ijk} \right) \right) \quad (7)$$

Where:

- AADT* = Annual average daily traffic volume
MADT = Monthly average daily traffic volume
VOL = Daily traffic volume for *k*-th occurrence of day-of-week *i* in the month *j*
i = Day of the week (Monday = 1, Tuesday = 2, Wednesday =3, Thursday = 4, Friday =5, Saturday = 6, Sunday =7)
j = Month of the year
k = 1 when the day is the first occurrence of that day of the week in a month, 4 when it is the fourth occurrence of that day of the week in a month.
n = Number of days of that day of the week during that month (usually between 1 and 5, depending on the number of missing data).

The above formula is compliant with the AASHTO formulation for AADT recommended in the *FHWA Traffic Monitoring Guide* [2] and serves to remove most biases that result from missing days of data, especially when those missing days are unequally distributed across the months or the days of the week.

Compute Seasonal Average Daily Traffic (SADT)

The season is defined as those full months that contain 80 percent of the annual traffic volume for the station. Note that a park may have more than one season; therefore, the months used in SADT computation may not be consecutive. To compute this statistic, the MADT is used to compute monthly volume for each month. Monthly volume is ranked from the highest to the lowest. Once the months with the highest cumulative traffic volumes are determined, the MADTs for those months are averaged to develop the SADT volume. The following procedure was used to calculate the SADT statistic:

1. Compute the MADT for each month.
2. Compute monthly volumes by multiplying MADT by the number of days in a month.
3. Sum the monthly volumes for all months.
4. Normalize the monthly volumes for each month by the sum of monthly volumes for all months.
5. Find a group of months that satisfy the following two conditions:

- (1) Has a cumulative of the normalized MADTs of 80% or more.
 - (2) Contains the least number of months.
6. Find an average of the MADTs for those months. This average MADT is equal to the SADT volume.

Example of the SADT computation using the MADT data for the MEVE ATR Station 2010 is shown in Table 3.

Table 3. Example of the SADT computation for the MEVE ATR Station 2010.

Month	MADT	DAYS	Monthly Volume	Percent of year	Ranking by the highest MADT volume	Cumulative percentile based on ranking	Part of SADT?
1	193	31	5,983	1.78%			No
2	198	28	5,544	1.65%			No
3	377	31	11,687	3.48%			No
4	741	30	22,230	6.61%			No
5	1317	31	40,827	12.15%	4	61.18%	Yes
6	2003	30	60,090	17.88%	1	17.88%	Yes
7	1893	31	58,683	17.46%	2	35.34%	Yes
8	1485	31	46,035	13.69%	3	49.03%	Yes
9	1319	30	39,570	11.77%	5	72.95%	Yes
10	944	31	29,264	8.71%	6	81.66%	Yes
11	313	30	9,390	2.79%			No
12	221	31	6,851	2.04%			No

Total Annual Volume: 33,6154
SADT: 1,494

Compute Annual Average Daily Traffic Adjustment Factors (AADTF)

The annual average daily traffic adjustment factors computed for each ATR station were used to estimate the AADT based on the coverage counts. The AADTF provides the day-of-week and monthly adjustment of coverage traffic volumes with respect to the AADT. Based on the weekday, weekend, or any-day coverage count schedule, the annual average daily traffic volume adjustment factors will be computed for each referenced ATR station and for each month using one of the following options:

- The annual average daily traffic volume adjustment factor for weekday coverage counts is the ratio of annual average daily traffic (AADT) to monthly average weekday traffic (MAWDT).
- The annual average daily traffic volume adjustment factor for weekend coverage counts is the ratio of annual average daily traffic (AADT) to monthly average weekend traffic (MAWET).

- The annual average daily traffic volume adjustment factor for any-day coverage counts taken during weekdays is based on the formula for weekday coverage counts. Similarly, if any-day coverage count is taken during weekend, then formula for weekend coverage counts is utilized.

$$AADTF_j = \begin{cases} \text{For weekday coverage counts: } \frac{AADT}{MAWDT_j} \\ \text{For weekend coverage counts: } \frac{AADT}{MAWET_j} \end{cases} \quad (8)$$

Where:

$AADTF_j$ = Annual average daily traffic volume adjustment factor for month j
 $AADT$ = Annual average daily traffic volume
 $MAWDT_j$ = Monthly average weekday traffic volume for month j
 $MAWET_j$ = Monthly average weekend traffic volume for month j
 j = Month of the year

Compute Seasonal Average Daily Traffic Adjustment Factors

Seasonal Average Daily Traffic Adjustment Factors (SADTF) will be used to estimate the SADT based on the coverage counts. The SADTF provides the day-of-week and monthly adjustment of coverage traffic volumes with respect to the SADT volume. Based on the weekday, weekend, or any-day coverage count schedule, these factors will be computed for each referenced ATR station and for each month using one of the following options:

- The seasonal average daily traffic volume adjustment factor for weekday coverage counts is the ratio of the seasonal average daily traffic (SADT) to the monthly average weekday traffic (MAWDT).
- The seasonal average daily traffic volume adjustment factor for weekend coverage counts is the ratio of the seasonal average daily traffic (SADT) to the monthly average weekend traffic (MAWET).
- The seasonal average daily traffic volume adjustment factor for any-day coverage counts taken during weekdays is based on the formula for weekday coverage counts. Similarly, if any-day coverage count is taken during weekend, then formula for weekend coverage counts is utilized.

$$SADTF_j = \begin{cases} \text{For weekday coverage counts: } \frac{SADT}{MAWDT_j} \\ \text{For weekend coverage counts: } \frac{SADT}{MAWET_j} \end{cases} \quad (9)$$

Where:

$SADTF_j$ = Seasonal average daily traffic volume adjustment factor for month j
 $SADT$ = Seasonal average daily traffic volume
 $MAWDT_j$ = Monthly average weekday traffic volume for month j
 $MAWET_j$ = Monthly average weekend traffic volume for month j
 j = Month of the year

Compute Percentile Directional Split (PDS)

The guidelines outlined in the *Project Traffic Forecasting Handbook* [7], developed by Florida Department of Transportation, were utilized to develop the Percentile Directional Split (PDS) statistic. The PDS is the percentage of the total, two-way peak hour traffic traveling in the peak direction. For continuously monitored sites (ATR stations), the peak hour traffic is determined as the 30th highest hour of the design year. To compute the PDS, the following procedure was used:

1. Determine the peak hour traffic as the 30th highest traffic volume hour.
2. Determine the total, two-way peak hour traffic volume for the 30th highest traffic volume hour.
3. Determine the peak hour traffic volume in each direction for the 30th highest traffic volume hour.
4. Assign the higher of the two directional peak hour traffic volumes to the peak direction volume.
5. Compute the PDS as a ratio of the peak direction volume to the total, two-way peak hour traffic volume, expressed in the percentile format (report as integer, without % sign).

Compute Design Hourly Volume (DHV)

The DHV is defined as a 1-hour two-way traffic volume on a highway segment during the 30th highest volume hour of the design year. The DHV could also be related to the AADT by the K-factor. For the park roads, the K-factor represents an estimate of the seasonally adjusted AADT percentage (expressed as SADT) occurring during the 30th highest traffic volume hour in the design year. Based on the guidelines for the K-factor selection from A Policy on Geometric Design of Highway and Streets [8], a K-factor of 15% was applied uniformly to all the sections, except for the parkways sections located in urban areas. For the parkways located in urban areas (like GWMP), a K-factor of 9% was applied based on Highway Capacity Manual [9].

$$DHV = SADT \cdot K / 100 \quad (10)$$

Where:

DHV = Design Hour Volume

$AADT$ = Annual average daily travel

K = K-factor

1.5.2 Coverage Count Data Summarization

Spatial and Temporal Biases Consideration

To counteract a temporal bias created by short duration counts, traffic volume adjustment factors (AADTF and SADTF) were developed based on the continuous monitoring data from the ATR stations located within each park unit. A close-by permanent ATR station located on a similar road type within a park was assigned as a reference station for each coverage count station to reduce a spatial bias. Seasonal and average daily volume adjustment factors were developed for each month for each reference station to be used as multipliers to adjust a base 24-hour traffic volume computed from 48-hour coverage count data.

The adjustment factors from a single continuous counter were assigned to all road segments within the influence of that counter site. The boundary of that influence zone was defined based on the road junctions that cause the nature of the traffic volume to change significantly. This approach is acceptable based on the *FHWA Traffic Monitoring Guide* [2] recommendations when the number of ATR sections is limited and the nature of traffic flow on nearby coverage count sites is not significantly different from that at the reference ATR site.

Coverage Count Summary Statistics

As a result of the coverage count data analysis, the following traffic statistics were developed for each roadway segment:

- Base 24-Hour Traffic Volume
- Annual Average Daily Traffic (AADT)
- Seasonal Average Daily Traffic (SADT)
- Annual Vehicle Miles of Travel (AVMT)
- Percentile Directional Split (PDS)
- Design Hourly Volume (DHV)

The following sections describe the computational procedures used to compute these summary statistics. Computational procedure for the AVMT is applicable to both the ATR and the coverage data.

Compute Base 24-Hour Traffic Volume

The 24-hour base count statistic was computed from the edited 48-hour coverage data using the following procedure outlined in article 6.4 of the *ASTM E1442-94, Standard Practice for Highway-Traffic Monitoring* [3]:

- If after the QA checks there are 48 consecutive hours of data are available, the sum of hourly estimates for each hour is divided by 2 to obtain the adjusted 24-hour volume for the base count statistic.
- If a minimum of 24 consecutive hours of data available after the QA checks, but less than 48-hours, then duplicate hours are averaged and no adjustments are done to the non-duplicate hours.

Using above guideline, a base 24-hour traffic volume statistic VOL_{ij} was obtained for each coverage station i during coverage count month j .

Compute AADT from Coverage Counts

A number of adjustments are required to convert a 24-hour base traffic volume statistic VOL_{ij} into an AADT estimate. For this purpose, the adjustment factors, developed from the ATR data, were used to reduce the effects of temporal bias. The following formula, based on the *FHWA Traffic Monitoring Guide* [2] guidelines, was used to convert a base 24-hour traffic volume computed from 48-hour counts to the AADT:

$$AADT_{hi} = VOL_{ij} \cdot AADTF_{jh} \quad (11)$$

Where:

- $AADT_{hi}$ = Annual average daily travel at location i adjusted based on ATR location h
 VOL_{ij} = 24-hour base traffic volume for month j at location i
 $AADTF_{jh}$ = Annual average daily traffic volume adjustment factor for month j based on ATR location h (different $AADTF$ formulas are used for parks with weekend, weekday, and any-day coverage count schedules)

In some circumstances, where it was not possible to obtain coverage counts due to temporary road closure during the counting period, historical AADT values from the 1994 NPS Traffic Report were factored using average park traffic growth factor computed for 1994-2003 or -2004 period (based on whether 2003 or 2004 counts were taken in the park).

Compute SADT from Coverage Counts

To convert a base 24-hour traffic volume from 48-hour counts to the SADT, the following equation was used:

$$SADT_{hi} = VOL_{ij} \cdot SADTF_{jh} \quad (12)$$

Where:

$AADT_{hi}$ = Annual average daily travel at location i adjusted based on ATR location h

VOL_{ij} = 24-hour base traffic volume for month j at location i

$SADTF_{jh}$ = Seasonal average daily traffic volume adjustment factor for month j based on ATR location h (different $SADTF$ formulas are used for parks with weekend, weekday, and any-day coverage count schedules)

Compute Annual Vehicle Miles of Travel (AVMT)

Annual Vehicle Miles of Travel (AVMT) were estimated for each major roadway within each park unit covered by an ATR or a coverage count. To compute the AVMT for each road segment, the road segment AADT was multiplied by the number of days in the year and then multiplied by the length of road segment in miles. These AVMT estimates then were summed for an entire park unit to compute the park AVMT.

$$AVMT = AADT \cdot 365 \cdot L \quad (13)$$

Where:

$AVMT$ = Annual vehicle miles of travel

$AADT$ = Annual average daily traffic

L = Length of road segment

Compute Percentile Directional Split (PDS)

The PDS was computed as a percentage of the total, two-way peak hour traffic traveling in the peak direction [7]. For the short duration 48-hour coverage sites, the peak hour of the base 24-hour volume was used in the directional split computation. To compute the PDS, the following procedure was used:

1. Determine the peak hour as the hour with the highest two-way traffic during the base 24-hour period.
2. Determine the total, two-way peak hour traffic volume for the selected peak hour.
3. Determine the peak hour traffic volume in each direction for the selected peak hour.
4. Assign the higher of the two directional peak hour traffic volumes to the peak direction volume.
5. Compute the PDS as a ratio of the peak direction volume to the total, two-way peak hour traffic volume, expressed in the percentile format (report as integer, without % sign).

Compute Design Hourly Volume (DHV)

The DHV is defined as a 1-hour two-way traffic volume on a highway segment during the 30th highest volume hour of the design year. The DHV could also be related to the AADT by the K-factor. For the park roads, the K-factor represents an estimate of the seasonally adjusted AADT percentage (expressed as SADT) occurring during the 30th highest traffic volume hour in the design year. Based on guidelines for the K-factor selection from A Policy on Geometric Design of Highway and Streets [8], a K-factor of 15% was applied uniformly to all the sections, except for the parkways sections located in urban areas. For the parkways located in urban areas (like GWMP), a K-factor of 9% was applied based on Highway Capacity Manual [9].

$$DHV = SADT \cdot K / 100 \quad (14)$$

Where:

DHV = Design Hour Volume

AADT = Annual average daily travel

K = K-factor

1.5.3 Vehicle Classification and Occupancy

Manually collected vehicle classification and occupancy counts were summarized by vehicle type or occupancy group and the percentile frequency distributions were computed. To obtain the percentile frequency distributions by vehicle type or occupancy, the following procedure was used:

1. Summarize the collected data by vehicle type or occupancy group.
2. Compute the total vehicle counts across all vehicle types or occupancy groups.
3. Obtain the percentile values for each vehicle type or occupancy group by dividing the total vehicle counts from each group by the total vehicle counts across all the groups and then by multiplying the result by 100.

1.6 Data Retention

This section of the report addresses the issues of traffic data storage for future use in FHWA FLH/NPS's planning and programming activities including design, operation, and maintenance of park road networks. Currently, NPS does not have a centralized table or database that contains traffic information from multiple months, years, and multiple ATR stations in a single application. This data organization makes data editing, data querying and cross comparison difficult and time consuming.

Under the existing contract, a prototype traffic database was developed for storage and querying of the NPS traffic information based on MS Access® technology. This database is populated with ATR and 48-hour coverage data and representative traffic statistics values for each logical traffic segment for the parks included in the 2004

NPS Traffic Data Report. The database is built on relational database management technology that allows efficient storage, management, and retrieval of traffic data.

Only data that passed the QC process and was retained are included in the database. To inform users about differences in traffic data availability and to specify how data sets for specific sites may differ, the traffic database includes information on time period and actual hourly traffic data used to derive traffic statistics. In addition, traffic database design provides means for linking with other agency databases, such as the Road Inventory Program (RIP) and Geographic Information System (GIS) databases. A detailed description of the tables included in the traffic database is provided in the Appendix A. The Traffic Database is provided on a CD as a part of the Appendix A.

1.7 VMT Summary by Park

Table 4 contains historical and current annual VMT summaries for the parks covered in 2004 NPS traffic data collection effort. 2004 park VMT summaries were obtained by summing together VMT values for individual road links covered in 2004 traffic data collection and analysis study and presented on the *Traffic Trends Summary* sheets of the *Park Traffic Packages* (see Section 2 of this report). For several parks, historical values changed slightly from the 1994 NPS Traffic Report based on updated mileage and traffic link information.

Table 4. Annual VMT Summaries by Park.

Park Name	Annual VMT (1000's)			
	1988	1991	1994	2004
Acadia National Park	10,523	12,212	9,788	8,329
Baltimore Washington Parkway	513,741	556,348	504,137	669,436
Big Bend National Park	9,487	13,713	12,471	8,202
Blue Ridge Parkway	176,251	133,324	159,412	*
Chickamauga And Chattanooga	26,280	24,590	28,398	10,408
Colonial National Historic Park	27,877	23,785	32,853	*
Delaware Water Gap National Recreation Area	35,066	35,789	42,003	34,354
Everglades National Park	11,526	16,863	12,792	9,971
Gateway National Recreation Area	5,857	9,723	9,979	8,077
George Washington Memorial Parkway	422,582	381,999	356,751	414,450
Gettysburg National Military Park	4,489	4,402	4,196	2,670
Glacier National Park	18,168	24,985	28,764	24,155
Glen Canyon National Recreation Area	7,950	7,200	9,833	5,830
Grand Canyon National Park	36,066	37,283	42,227	36,923
Grand Teton National Park	48,615	51,994	70,801	70,418
Great Smoky Mountains National Park	107,713	141,409	153,519	157,960
Gulf Islands National Seashore	738	8,372	10,550	7,717
Joshua Tree National Park	6,096	9,069	9,944	11,447
Lake Mead National Recreation Area	44,198	33,063	40,369	31,641
Mammoth Cave National Park	4,922	6,518	6,916	7,963
Mesa Verde National Park	11,670	17,244	13,350	7,743
Mount Rainer National Park	18,691	18,349	18,468	17760
Natchez Trace Parkway	163,146	166,737	232,021	186,065
Olympic National Park	27,431	27,474	23,429	15,494
Rock Creek Parkway	77,459	76,075	76,325	63,973
Saguaro National Park	4,826	5,044	6,847	9,229
Sequoia/Kings Canyon National Park	12,579	15,747	15,745	11,635
Shenandoah National Park	32,987	33,932	31,100	23,522
Suitland Parkway	45,094	48,260	39,476	74,789
Valley Forge National Military Park	19,247	19,247	19,247	25,900
Yellowstone National Park	149,012	228,038	231,986	208,149
Yosemite National Park	91,978	85,439	92,570	*
Zion National Park	9,187	11,210	13,537	7,357
	2,181,454	2,285,436	2,359,803	*

* VMT summaries for these parks will be provided as an addendum at a later date.

1.8 References

1. *AASHTO Guidelines for Traffic Data Programs*, (1992), American Association of State Highway and Transportation Officials, Washington, D.C.
2. *FHWA Traffic Monitoring Guide*, (2001), Fourth Edition, Federal Highway Administration, Office of Highway Information and Management.
3. *American Society for Testing and Materials, Standard Practice for Highway-Traffic Monitoring*, (1994), Annual Book of ASTM Standards, ASTM E1442-94.
4. *1994 National Park Service Traffic Data Report*, (1995), United States Department of the Interior, National Park Service, Field Operations Technical Support Center.
5. Intelligent Decision Technologies, Ltd. and In Motion, Inc., "*Interim Task A3 Report, Expert Knowledge Base, Traffic Data Quality Procedures Pooled Fund Study*," for Minnesota Department of Transportation, November 1997.
6. *LTPP TRAFFIC QC Software, Volume 1: User's Guide*, (2001), LTPP TSSC.
7. *Project Traffic Forecasting Handbook*, (2002), Florida Department of Transportation.
8. *A Policy on Geometric Design of Highway and Streets*, (1994), American Association of State Highway and Transportation Officials, Washington, D.C.
9. *Highway Capacity Manual*, (2000), Transportation Research Board, National Research Council, Washington D.C.

Section 2

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Baltimore-Washington Memorial Parkway Traffic Package	BWMP
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Blue Ridge Parkway Traffic Package	BLRI
Chickamauga/Chattanooga National Military Park Traffic Package	CHCH
Colonial National Historic Park Traffic Package	COLO
Delaware Water Gap National Recreation Area Traffic Package	DEWA
Everglades National Park Traffic Package	EVER
Gateway National Recreation Area Traffic Package	GATE
George Washington Parkway Traffic Package	GWMP
Gettysburg National Military Park Traffic Package	GETT
Glacier National Park Traffic Package	GLAC
Glen Canyon National Recreation Area Traffic Package	GLCA
Grand Canyon National Park Traffic Package	GRCA
Grand Teton National Park Traffic Package	GRTE
Great Smoky Mountains National Park Traffic Package	GRSM
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Yosemite National Park Traffic Package	YOSE
Zion National Park Traffic Package	ZION

2.1 Information Contained in Park Traffic Packages

Section 2 of this report contains a compilation of the *Park Traffic Packages* prepared for the individual park units included in current traffic data collection effort. The *Park Traffic Package* format is discussed in detail in the following section to aid readers in understanding the traffic statistics provided for each park unit.

Each park is reported separately with the data associated with that particular park. All traffic packages conform to a uniform reporting format. Generally, the park traffic package contains the following sections:

- Traffic Flow Map
- Traffic Trends Summary
- Traffic Volume Summary
- Traffic Composition Summary
- ATR Data Summary
- ATR Station Location Maps

Details for each of the section of the park traffic package are provided below.

2.1.1 Traffic Flow Map

This page of the report is a graphic depicting the AADT values for different road segments within a park. For each traffic count station, AADT values are specified (1) numerically and (2) graphically by varying the band width along traffic segment. A legend, provided at the bottom of the page, helps to relate band width with AADT values.

To generate this graphic, park boundaries were established using the ESRI map product provided with ArcView. The park road network was added to the map using ArcView shape files provided by the FHWA/NPS Road Inventory Program (RIP). Traffic flow information was added after exporting the ArcView Map image to Corel Draw.

2.1.2 Traffic Trends Summary

This page provides a summary of the Annual Average Daily Traffic (AADT) and Vehicle Miles of Travel (VMT) for each major roadway segment within the park. The AADT and VMT summaries show historical (1988, 1991, 1994) and current values (2003 or 2004). The 2003 or 2004 AADT values are carried over from the *Traffic Volume Summary* sheet. The procedures to compute VMT values are presented in *Data Analysis* section of this report.

2.1.3 Traffic Volume Summary

This page shows tabulated results of the AADT and SADT calculation for all traffic stations included in the current data collection effort. ATR stations are reported at the top of the table and coverage counts are reported at the bottom of the table. In addition, for the coverage count stations, the table contains information about the 24-hour base traffic volume, beginning date of the 48-hour coverage count, and the AADT and SADT factors for the month of coverage count which were obtained from the referenced ATR stations. The AADT and SADT values for the ATR stations are taken directly from the *ATR Data Summary* sheets. The AADT and SADT values for the coverage count data are computed using procedures presented in the *Data Analysis* section of this report.

There are some locations where data were not obtained from coverage counts and therefore other means of obtaining the AADT estimate were used. In each case, the source of the AADT value (if not from a factored coverage count or ATR station) was noted on the *Traffic Volume Summary* sheet.

2.1.4 Traffic Composition Summary

This page shows pie charts displaying the results of the vehicle classification and vehicle occupancy study conducted at each park. The data on the pie chart show the percentile distributions of the vehicle counts based on the vehicle classification and/or vehicle occupancy. The vehicle classification and occupancy categories, along with the labels used on the pie charts, are presented in tabulated form at the bottom of the *Traffic Composition Summary* sheet. Details on how the percentile distributions of the vehicle counts based on vehicle classification and vehicle occupancy were computed are presented in the *Data Analysis* section of this report.

Vehicle classification data are important for pavement and bridge design, especially the percentages of heavier vehicles. Vehicle occupancy data are important for computation of people throughput on park roads. For example, to estimate the total number of people using buses versus other types of vehicles on an average day the following procedure could be used.

1. For a selected road link, obtain an AADT value.
2. For each vehicle occupancy category, obtain the percentage of vehicles from the *Vehicle Occupancy* pie chart, express percentage as a fraction.
3. For each vehicle occupancy category, multiply the AADT value by the number of occupants in the vehicle and then by the percentage of vehicles in this occupancy category to obtain total number of people in each vehicle occupancy category.
4. Sum together total number of people carried by vehicles other than buses.
5. Sum together total number of people carried by buses.

To determine the average occupancy rate for a given vehicle type, we divided the total number of people carried in the selected vehicle type by the total number of vehicles in the selected category. The total number of people can be found using procedure described in the previous example. The total number of vehicles in a selected category on an average day can be estimated by multiplying the AADT by the percentile value for the selected vehicle type from the vehicle classification chart and dividing the product by 100.

2.1.5 ATR Data Summary

The next several pages show the summary of the ATR data. Monthly traffic statistics are shown in tabular form on the top part of the sheet. The left hand columns show the year and the month of the data used to develop traffic statistics included in the table: MADT, MAWDT, MAWET, and AADT and SADT factors. In addition, AADT, AAWDT, AAWET, SADT statistics are included below the table in the *ATR Data Summary* sheet. Details on how ATR traffic statistics were developed are provided in the *Data Analysis* section of this report.

In some cases, the 2002-2004 ATR data for a 12 month-period were not available for some months due to equipment problems. For these months, data from previous years were used. In these circumstances, the computed traffic statistics based on the data from previous years were not factored to account for traffic growth/decline in the park. For example, if the table shows the source of the MADT to be 2001, this is the actual 2001 MADT and is not factored.

For the parks where no 2002-2004 ATR data were available (EVER, MACA, ZION, and for ATR Stations 45011 in DEWA and 55012 in ROCR), the historical ATR data were used to obtain seasonal and annual adjustment factors to adjust current coverage counts. For these cases, *ATR Data Summary* sheets contain only AADTF and SADTF information.

Distributions of average monthly traffic volumes (MADT, MAWDT, MAWET) and AADT and SADT values are also shown in the graphical form in the lower portion of the *ATR Data Summary* sheet.

2.1.6 Historical Seasonal Traffic Trend Summary

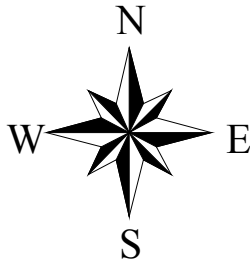
For the parks road links referencing the ATR stations that are no longer in use, the available historical data were analyzed to check whether the seasonal traffic patterns are similar or change from year to year. For this analysis, a ratio of MADT to AADT was computed for each month for the years with historical data and the results were plotted on the *Historical Seasonal Traffic Trend Summary* sheets.

2.1.7 ATR Station Location Maps

The last few pages show schematic location of permanent ATR stations on the park map and diagrams of the ATR station layouts, including ATR loop locations. ATR station IDs are shown next to each road segment covered by an ATR station. These diagrams were created based on the NPS files.

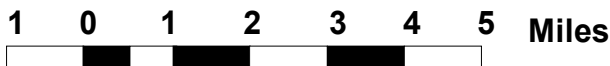
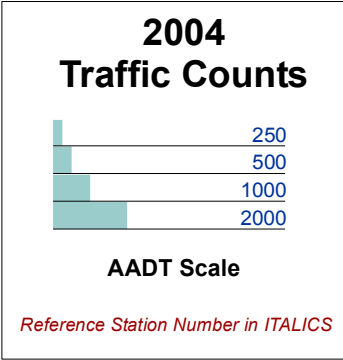
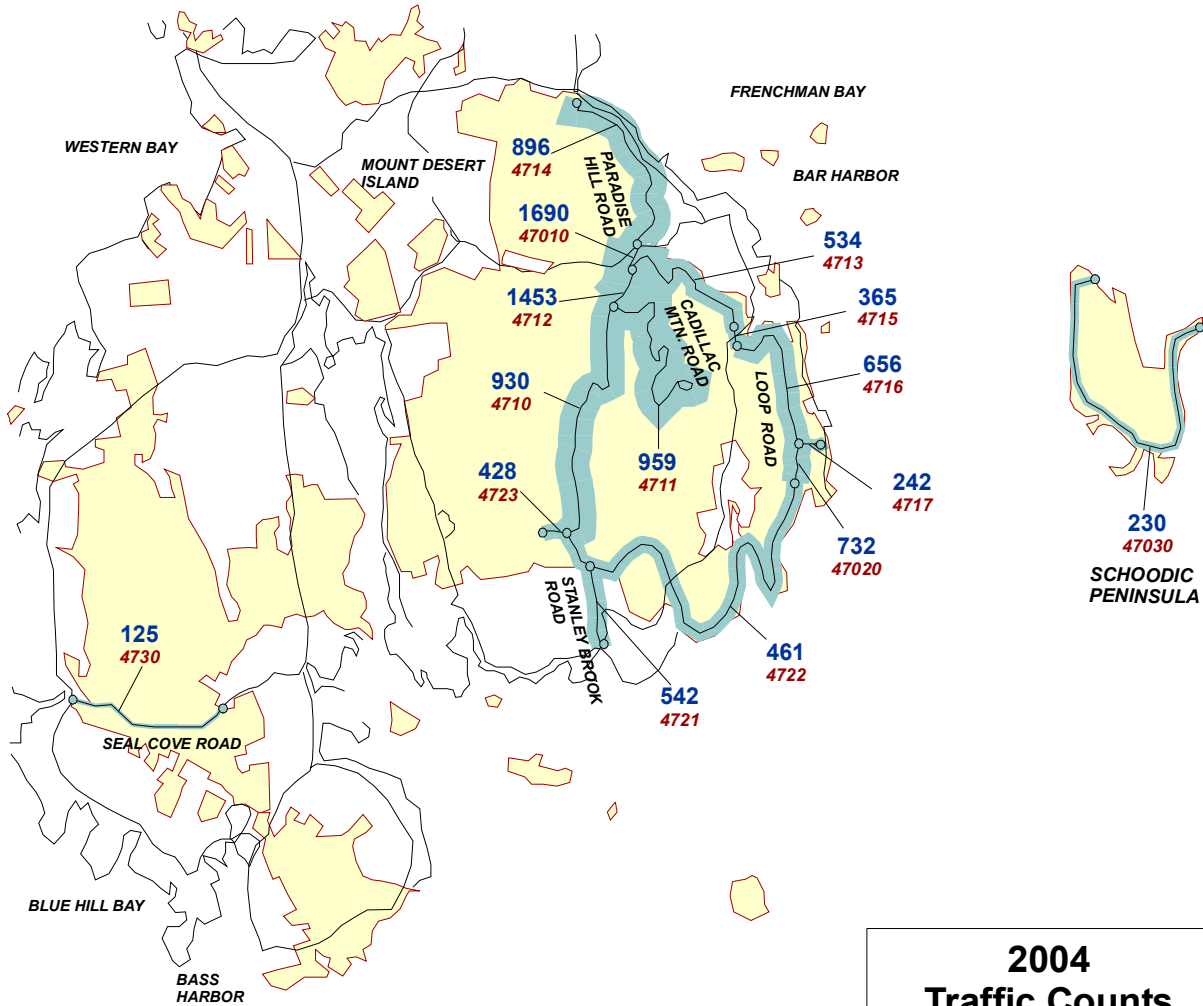
Acadia National Park Traffic Package





Acadia National Park

Maine
U.S. Department of Interior
NATIONAL PARK SERVICE



ACADIA NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	Paradise Hill Rd. - State Rt. 3 to State Rt. 233	4714	2.41	1149	1464	934	896	1011	1288	822	788
10	Paradise Hill Rd. - State Rt. 233 to Loop Road	47010	0.53	705	1710	1782	1690	136	331	345	327
12	Jordan Pond Rd. - Loop Road to Jordan Pond House	4723	0.47	994	1343	923	428	171	230	158	73
12	Jordan Pond Rd. - Jordan Pond House to Cadillac Mtn. Road	4710	4.08	910	1162	861	930	1355	1730	1282	1385
12	Jordan Pond Rd. - Cadillac Mtn. Road to Paradise Hill Road	4712	0.57	1734	2100	1585	1453	361	437	330	302
13	Cadillac Mtn. Rd. - Jordan Pond Road to Summit	4711	3.47	1614	1942	1102	959	2044	2460	1396	1215
14	Stanley Brook Rd. - State Rt 3 at Seal Harbor to Loop Road	4721	1.23	645	697	688	542	290	313	309	243
15	Seal Cove Rd. - State Rt. 102 at Seal Cove to E.Park Bdry.	4730	2.16	92	176	80	125	73	139	63	99
208	Sieur De Mont Rd. - Loop Road to State Rt. 3.	4715	0.54	649	501	351	365	128	99	69	72
222	Oak Hill Scenic Overlook Rd. - Loop Road to Overlook	4717	0.41	345	359	226	242	52	54	34	36
300	Loop Rd. - Paradise Hills Road to Sieur De Mont Rd.	4713	1.83	858	776	629	534	573	518	420	357
300	Loop Rd. - Sieur De Mont Rd. to Oak Hill Overlook Rd.	4716	3.55	858	734	785	656	1112	951	1017	850
300*	Loop Rd. - Oak Hill Overlook Rd. to Sand Beach Road	47020	7.44	689	777	843	732	1871	2110	2289	1988
300**	Loop Rd. - Sand Beach Rd. to Jordan Pond Rd.	4722	0.62	708	1284	511	461	160	291	116	104
301	Schoodic Loop Rd. - Park Boundary to Park Boundary	47030	5.83	558	593	535	230	1187	1262	1138	489
VMT SUMMARY								10523	12212	9788	8329

Note: AADT -- Annual Average Daily Traffic

VMT-- Vehicle Miles of Travel

* Route name and route mileage has changed since the 1994 report

** Route mileage has changed since the 1994 report

ACADIA NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
47010	Paradise Hill Rd. - State Rt. 233 to Loop Road					3622	1690	Self
47020	Loop Rd. - Oak Hill Overlook Rd. to Sand Beach Road					1497	732	Self
47030	Schoodic Loop Rd. - Park Boundary to Park Boundary					369	230	Self
4710	Jordan Pond Rd. - Jordan Pond House to Cadillac Mtn. Road	8/26/2004	2758	0.7231	0.3373	1994	930	47010
4711	Cadillac Mtn. Rd. - Jordan Pond Road to Summit	8/26/2004	2842	0.7231	0.3373	2055	959	47010
4712	Jordan Pond Rd. - Cadillac Mtn. Road to Paradise Hill Road	8/26/2004	4306	0.7231	0.3373	3114	1453	47010
4713	Loop Rd. - Paradise Hills Road to Sieur De Mont Rd.	8/26/2004	1582	0.7231	0.3373	1144	534	47010
4714	Paradise Hill Rd. - State Rt. 3 to State Rt. 233	8/26/2004	2656	0.7231	0.3373	1921	896	47010
4715	Sieur De Mont Rd. - Loop Road to State Rt. 3.	8/26/2004	1082	0.7231	0.3373	782	365	47010
4716	Loop Rd. - Sieur De Mont Rd. to Oak Hill Overlook Rd.	8/26/2004	1946	0.7231	0.3373	1407	656	47010
4717	Oak Hill Scenic Overlook Rd. - Loop Road to Overlook	8/26/2004	716	0.7231	0.3373	518	242	47010
4721	Stanley Brook Rd. - State Rt 3 at Seal Harbor to Loop Road	8/26/2004	1604	0.6911	0.3381	1109	542	47020
4722	Loop Rd. - Sand Beach Rd. to Jordan Pond Rd.	8/26/2004	1365	0.6911	0.3381	943	461	47020
4723	Jordan Pond Rd. - Loop Road to Jordan Pond House	8/26/2004	1268	0.7231	0.3373	917	428	47010
4730	Seal Cove Rd. - State Rt. 102 at Seal Cove to E.Park Bdry.	8/26/2004	370	0.6911	0.3381	256	125	47020

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.

ACADIA NATIONAL PARK

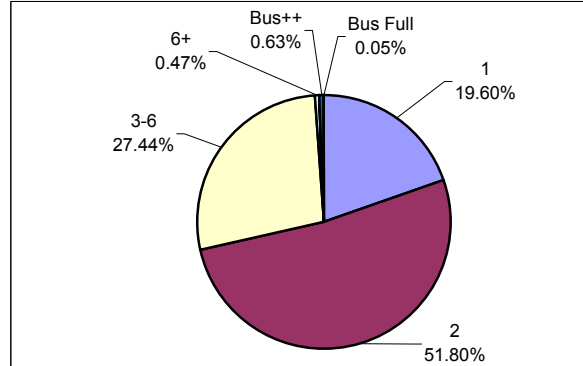
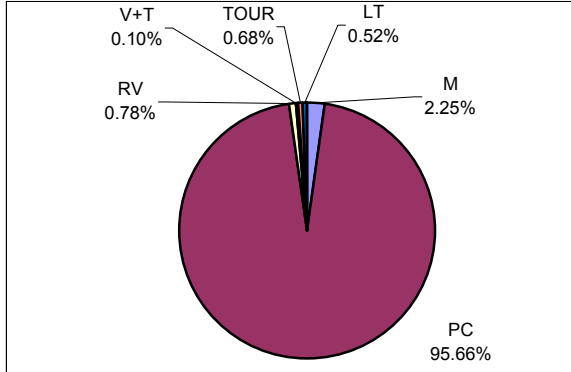
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

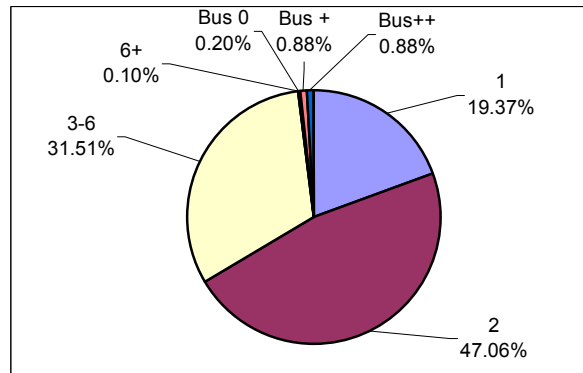
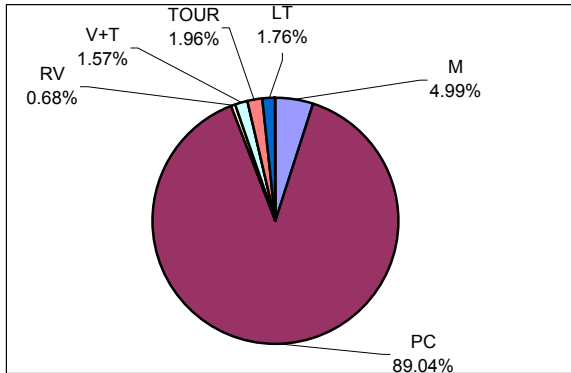
Location: STATION 4714

Location: STATION 4714



Location: STATION 4721

Location: STATION 4721



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.

ACADIA NATIONAL PARK

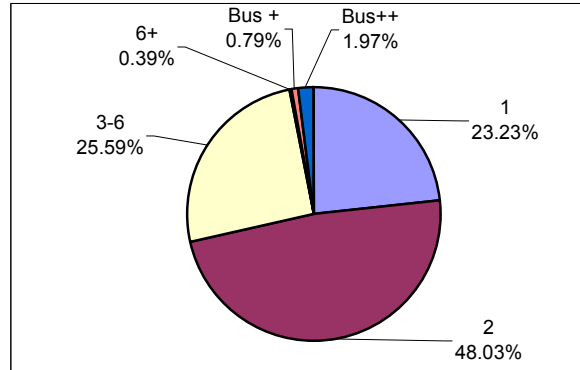
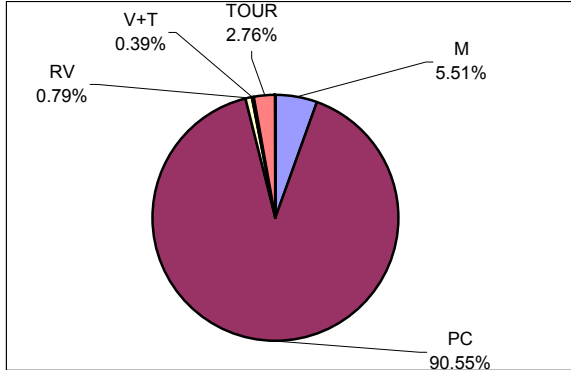
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 47030

Location: STATION 47030



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

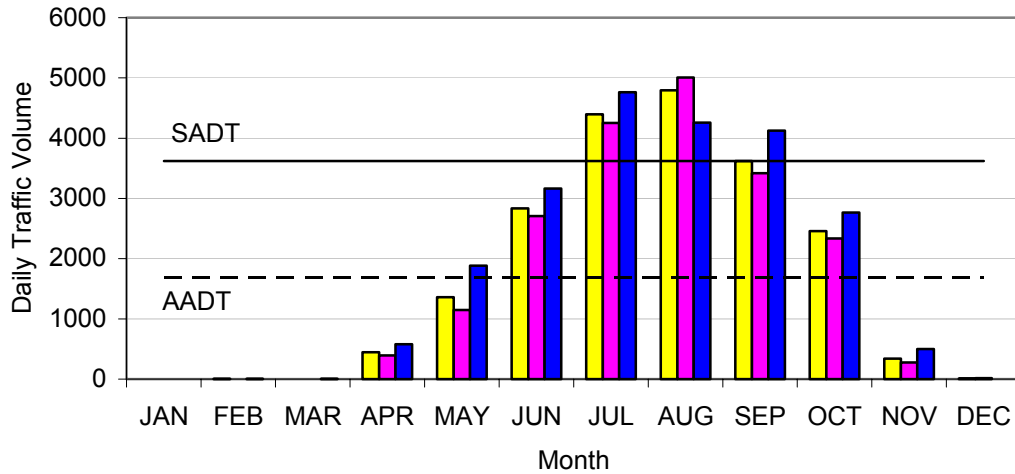
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus ++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

ACADIA NATIONAL PARK

Station: 47010 Paradise Hill Rd. - State Rt. 233 to Loop Road

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	2004	1	0	2	-	-
2	2004	3	1	7	1689.6667	3622.0000
3	2004	2	2	3	844.8333	1811.0000
4	2004	448	395	580	4.2776	9.1696
5	2004	1359	1148	1885	1.4718	3.1551
6	2004	2838	2709	3162	0.6237	1.3370
7	2004	4398	4252	4763	0.3974	0.8518
8	2004	4795	5009	4258	0.3373	0.7231
9	2004	3620	3417	4126	0.4945	1.0600
10	2004	2459	2335	2769	0.7236	1.5512
11	2003	342	278	499	6.0779	13.0288
12	2003	11	15	0	112.6444	241.4667
Annual Average Daily Traffic (AADT)				1690		
Annual Average Weekday Traffic (AAWDT)				1630		
Annual Average Weekend Traffic (AAWET)				1838		
Seasonal Average Daily Traffic (SADT)				3622		

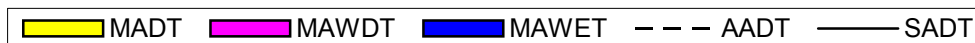
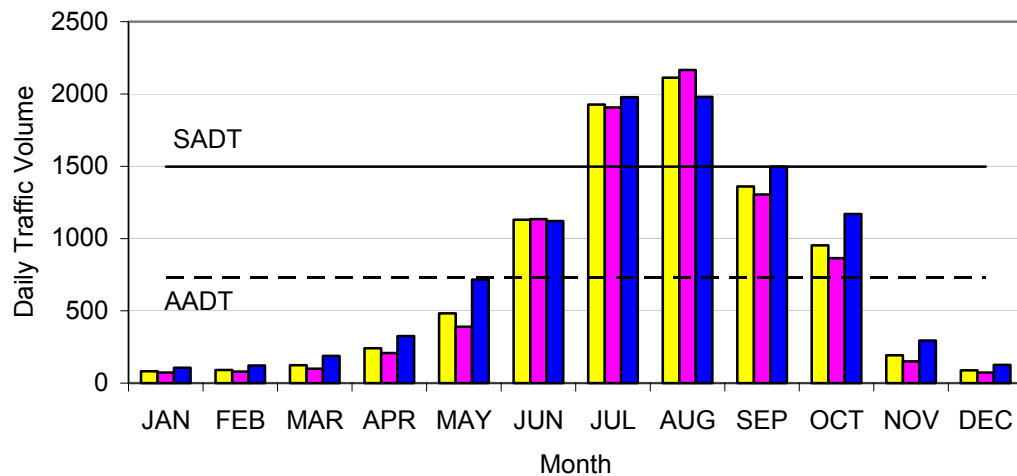


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

ACADIA NATIONAL PARK

Station: 47020 Loop Rd. - Oak Hill Overlook Rd. to Sand Beach Road

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	82	72	107	10.1701	20.7917
2	2003	91	79	121	9.2690	18.9494
3	2003	125	100	187	7.3225	14.9700
4	2003	242	209	326	3.5036	7.1627
5	2003	483	390	716	1.8776	3.8385
6	2003	1131	1135	1121	0.6452	1.3189
7	2003	1927	1907	1977	0.3840	0.7850
8	2003	2113	2166	1979	0.3381	0.6911
9	2003	1360	1306	1497	0.5607	1.1462
10	2003	953	866	1170	0.8456	1.7286
11	2003	192	151	294	4.8493	9.9139
12	2002	88	73	126	10.0308	20.5068
Annual Average Daily Traffic (AADT)				732		
Annual Average Weekday Traffic (AAWDT)				705		
Annual Average Weekend Traffic (AAWET)				802		
Seasonal Average Daily Traffic (SADT)				1497		

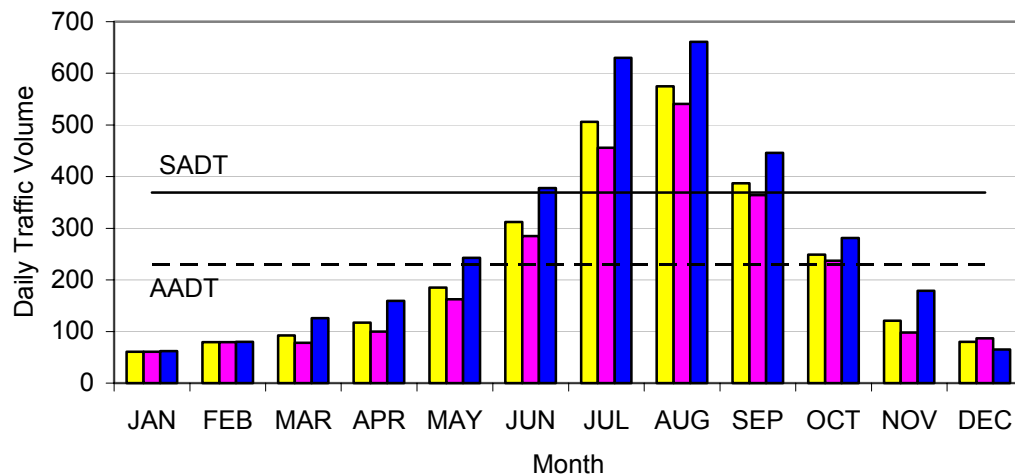


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

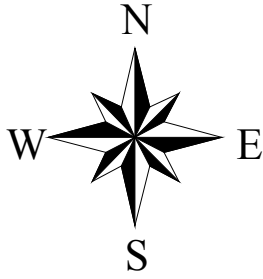
ACADIA NATIONAL PARK

Station: 47030 Schoodic Loop Rd. - Park Boundary to Park Boundary

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	2004	61	61	62	3.7760	6.0492
2	2004	79	79	80	2.9156	4.6709
3	2004	92	78	126	2.9530	4.7308
4	2004	117	100	159	2.3033	3.6900
5	2004	185	162	243	1.4218	2.2778
6	2004	312	285	378	0.8082	1.2947
7	2004	506	456	630	0.5051	0.8092
8	2004	575	541	661	0.4258	0.6821
9	2004	387	364	446	0.6328	1.0137
10	2004	249	237	281	0.9719	1.5570
11	2003	121	98	179	2.3503	3.7653
12	2003	80	87	65	2.6475	4.2414
Annual Average Daily Traffic (AADT)				230		
Annual Average Weekday Traffic (AAWDT)				212		
Annual Average Weekend Traffic (AAWET)				276		
Seasonal Average Daily Traffic (SADT)				369		

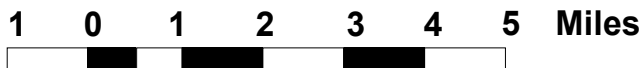
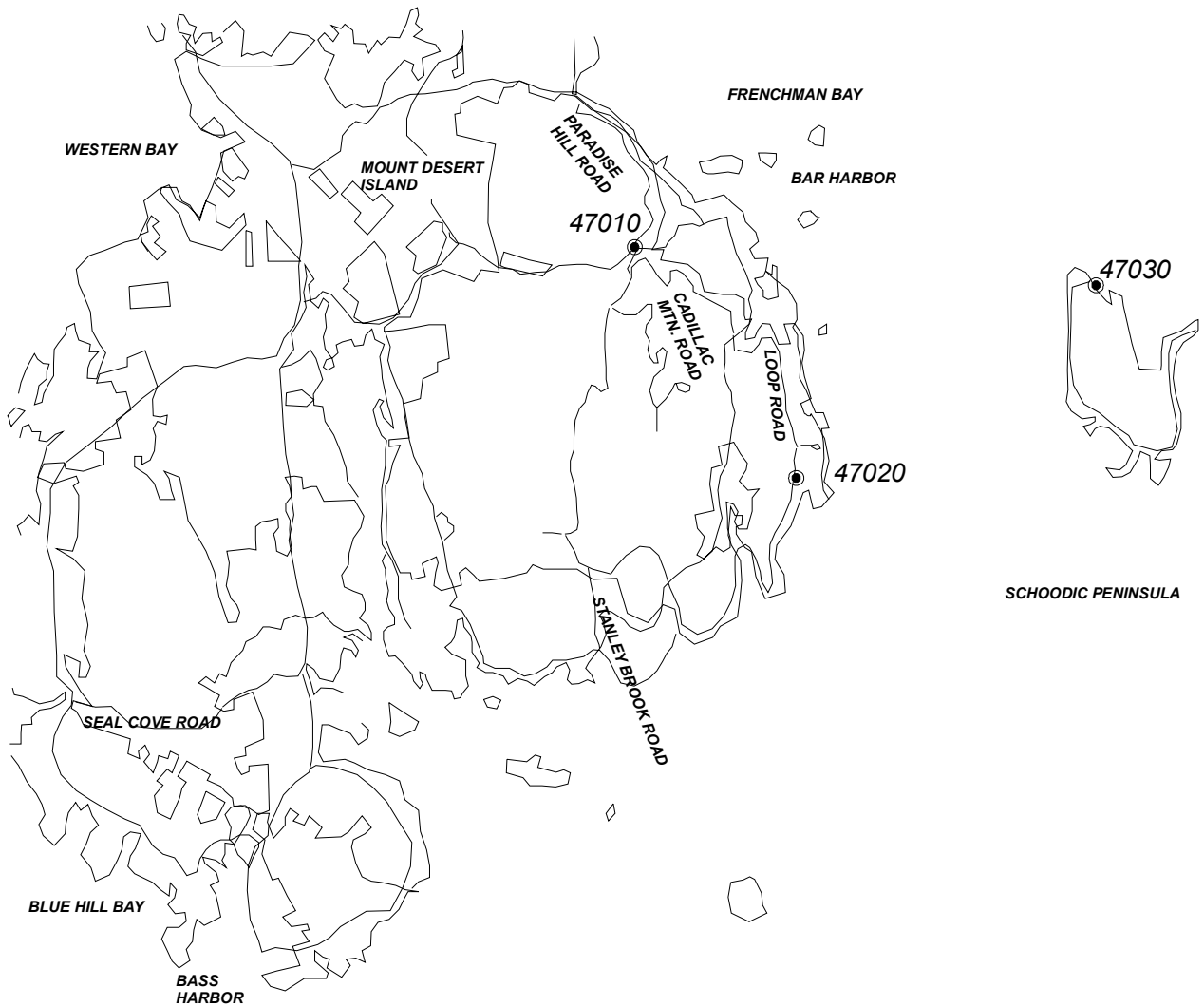


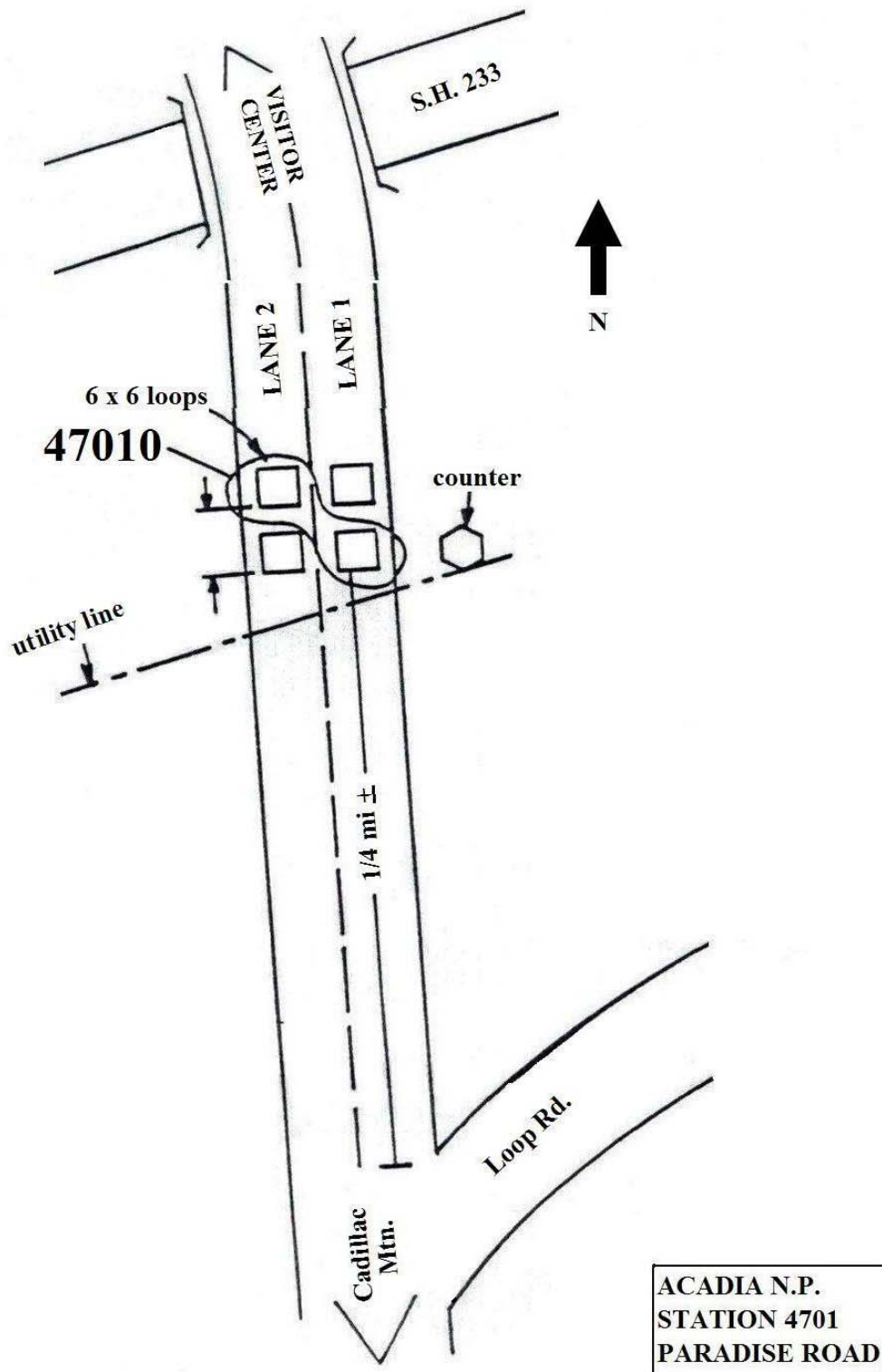
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

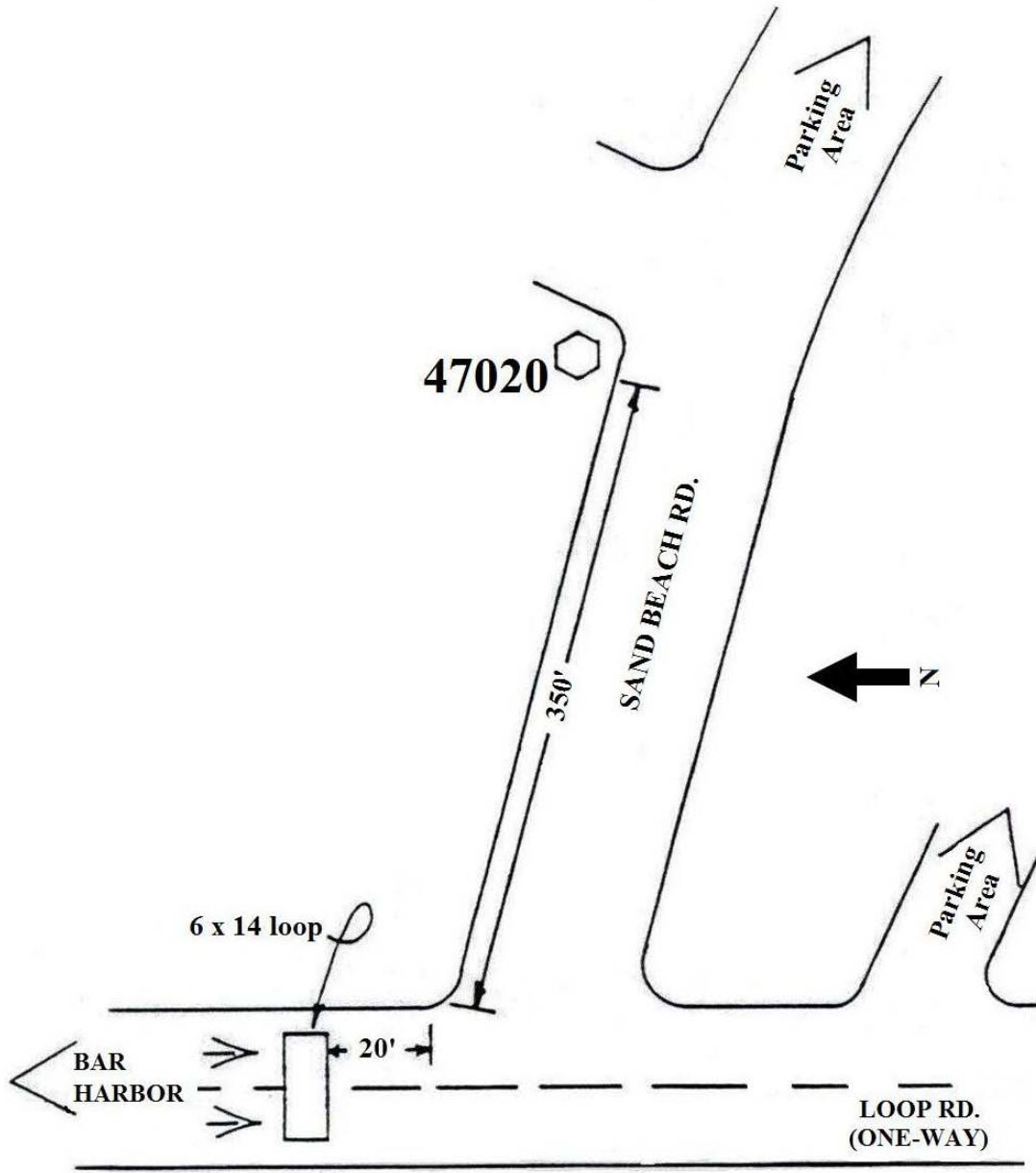


Acadia National Park

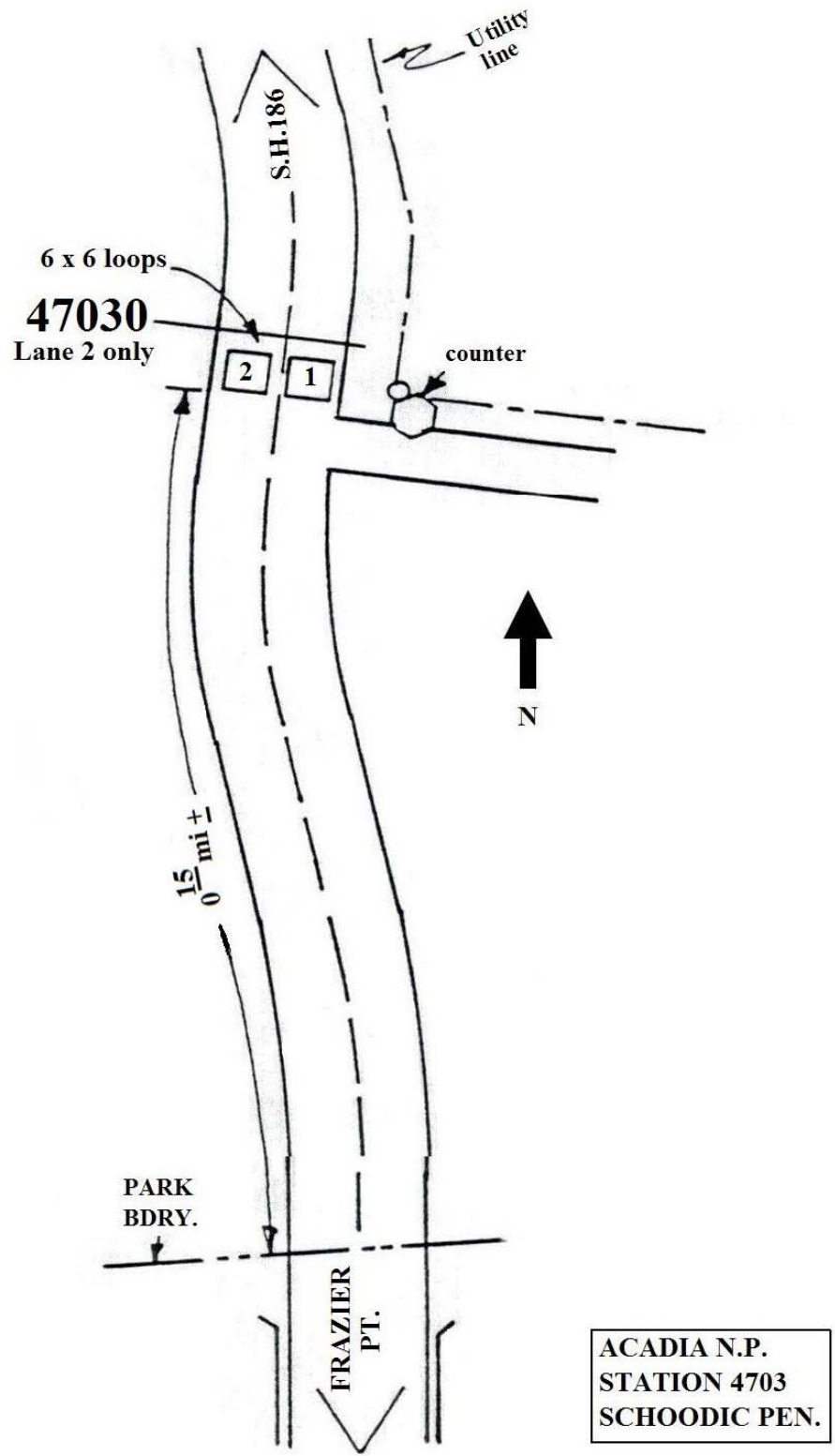
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NATIONAL PARK SERVICE





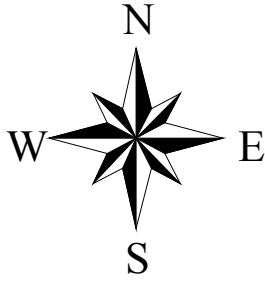


ACADIA N.P.
STATION 4702
SAND BEACH ROAD



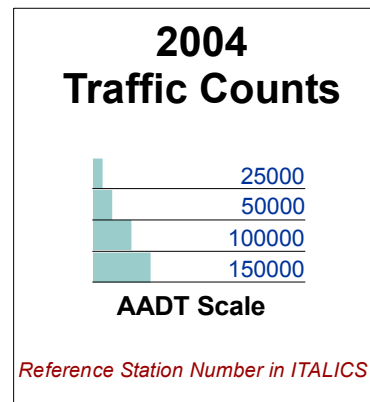
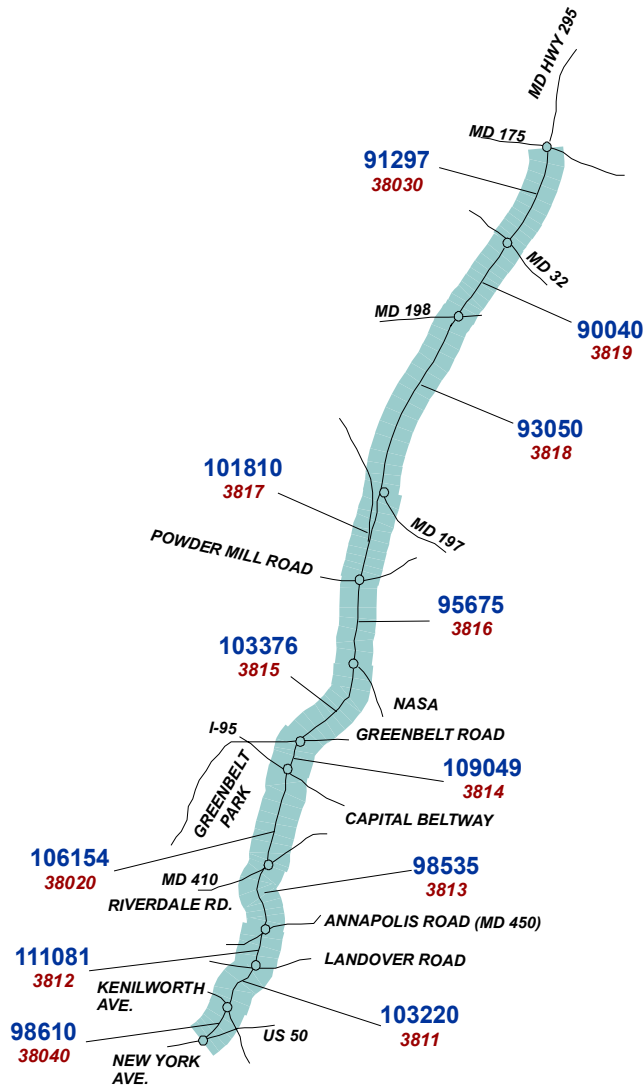
Baltimore-Washington Memorial Parkway Traffic Package





Baltimore Washington Memorial Parkway

Maryland
U.S. Department of Interior
NATIONAL PARK SERVICE



BALTIMORE WASHINGTON MEMORIAL PARKWAY TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
1	B-W Parkway - Md. Hwy. 175 to Md. Hwy. 32	38030	1.25	58213	72715	61485	91297	26560	33176	28053	41654
1	B-W Parkway - Md. Hwy. 32 to Md. Hwy. 198	3819	2.55	69106	72715	61485	90040	64320	67679	57227	83805
1	B-W Parkway - Md. Hwy. 198 to Md. Hwy. 197	3818	3.2	63261	73739	56889	93050	73889	86127	66446	108682
1	B-W Parkway - Md. Hwy. 197 to Powder Mill Road	3817	2	79793	90464	70977	101810	58249	66039	51813	74321
1	B-W Parkway - Powder Mill Road to NASA Entrance	3816	2.36	76781	82042	75701	95675	66139	70671	65209	82414
1	B-W Parkway - NASA Entrance to Greenbelt Road	3815	0.94	79018	83682	73390	103376	27111	28711	25180	35468
1	B-W Parkway - Greenbelt Road to Capital Beltway	3814	0.4	87842	92068	75348	109049	12825	13442	11001	15921
1	B-W Parkway - Capital Beltway to Riverdale Road	38020	3	80763	84544	88516	106154	88435	92576	96925	116239
1	B-W Parkway - Riverdale Road to Annapolis Road	3813	1.3	86690	84544	88516	98535	41134	40116	42001	46755
1	B-W Parkway - Annapolis Road to Landover Road	3812	0.42	98669	94364	93546	111081	15126	14466	14341	17029
1	B-W Parkway - Landover Road to Kenilworth Ave.	3811	0.64	88996	92775	98333	103220	20789	21672	22971	24112
1	B-W Parkway - Kenilworth Ave. To New York Ave.	38040	0.64	82030	92775	98333	98610	19162	21672	22971	23035
VMT SUMMARY								513741	556348	504137	669436

Note: AADT -- Annual Average Daily Traffic
VMT -- Vehicle Miles of Travel

BALTIMORE WASHINGTON MEMORIAL PARKWAY 2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
38040	B-W Parkway - Kenilworth Ave. To New York Ave.					100174	98610	Self
3811	B-W Parkway - Landover Road to Kenilworth Ave.	11/1/2004	105055	0.9981	0.9825	104857	103220	38040
3812	B-W Parkway - Annapolis Road to Landover Road	11/1/2004	113055	0.9981	0.9825	112842	111081	38040
3813	B-W Parkway - Riverdale Road to Annapolis Road	11/1/2004	100286	0.9981	0.9825	100097	98535	38040
3814	B-W Parkway - Greenbelt Road to Capital Beltway	11/1/2004	110987	0.9981	0.9825	110778	109049	38040
3815	B-W Parkway - NASA Entrance to Greenbelt Road	11/1/2004	105214	0.9981	0.9825	105016	103376	38040
3816	B-W Parkway - Powder Mill Road to NASA Entranc	11/1/2004	97376	0.9981	0.9825	97193	95675	38040
3817	B-W Parkway - Md. Hwy. 197 to Powder Mill Road	11/1/2004	103620	0.9981	0.9825	103425	101810	38040
3818	B-W Parkway - Md. Hwy. 198 to Md. Hwy. 197	11/1/2004	94704	0.9981	0.9825	94526	93050	38040
3819	B-W Parkway - Md. Hwy. 32 to Md. Hwy. 198	11/1/2004	91640	0.9981	0.9825	91467	90040	38040
38020	B-W Parkway - Capital Beltway to Riverdale Road	11/1/2004	108041	0.9981	0.9825	107838	106154	38040
38030	B-W Parkway - Md. Hwy. 175 to Md. Hwy. 32	11/1/2004	92920	0.9981	0.9825	92745	91297	38040

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.

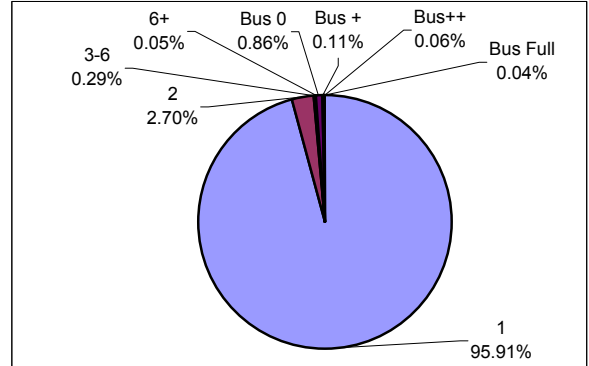
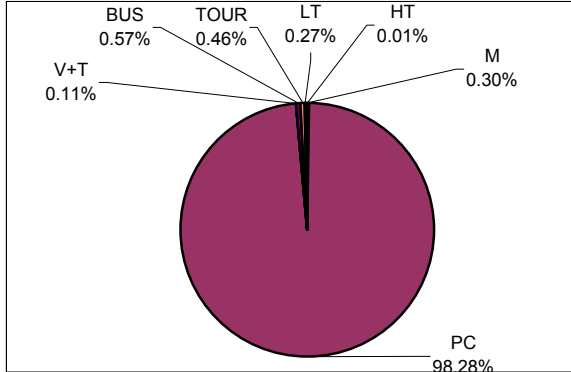
BALTIMORE WASHINGTON MEMORIAL PARKWAY 2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

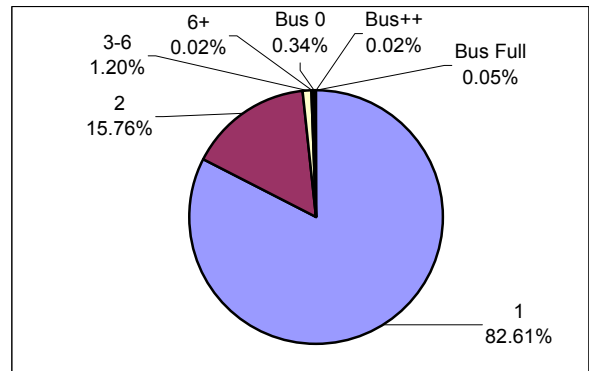
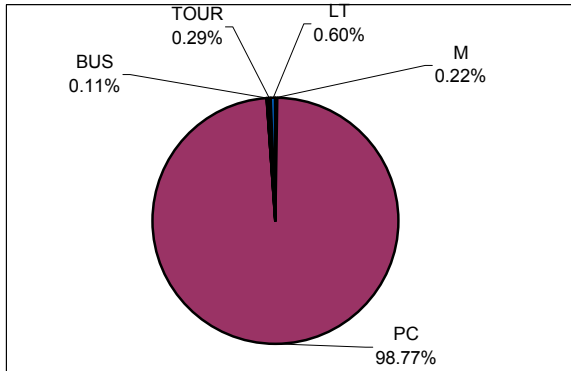
Location: STATION 38030

Location: STATION 38030



Location: STATION 38040

Location: STATION 38040



CLASSIFICATION 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

OCCUPANCY LEGEND:

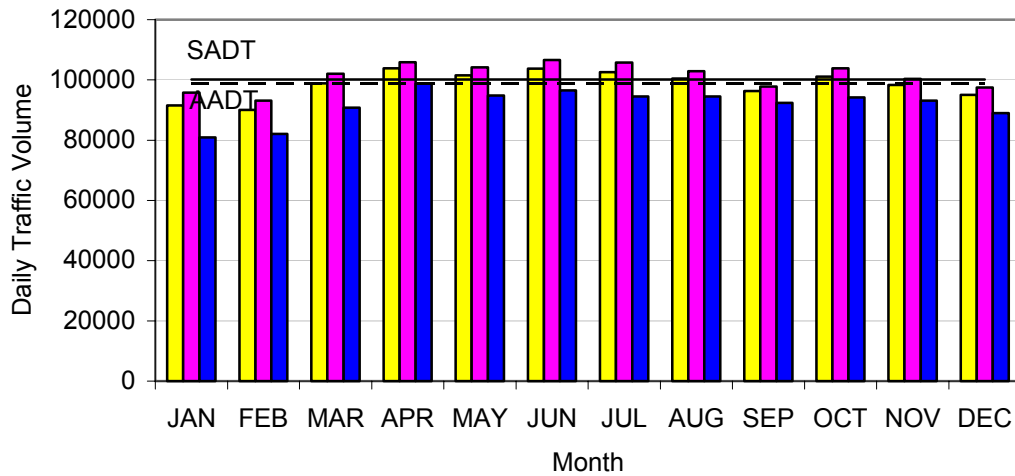
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

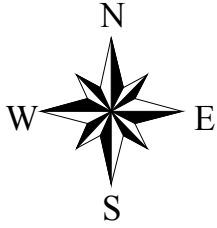
BALTIMORE WASHINGTON MEMORIAL PARKWAY

Station: 38040 B-W Parkway - Kenilworth Ave. To New York Ave.

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	91571	95833	80914	1.0290	1.0453
2	2003	90009	93172	82102	1.0584	1.0752
3	2003	98846	102077	90769	0.9660	0.9814
4	2003	103847	105863	98808	0.9315	0.9463
5	2003	101509	104161	94878	0.9467	0.9617
6	2003	103754	106624	96577	0.9248	0.9395
7	2003	102564	105775	94538	0.9323	0.9470
8	2003	100478	102860	94521	0.9587	0.9739
9	2003	96271	97816	92410	1.0081	1.0241
10	2003	101141	103898	94247	0.9491	0.9642
11	2003	98291	100363	93110	0.9825	0.9981
12	2002	95041	97457	89001	1.0118	1.0279
Annual Average Daily Traffic (AADT)				98610		
Annual Average Weekday Traffic (AAWDT)				101325		
Annual Average Weekend Traffic (AAWET)				91823		
Seasonal Average Daily Traffic (SADT)				100174		

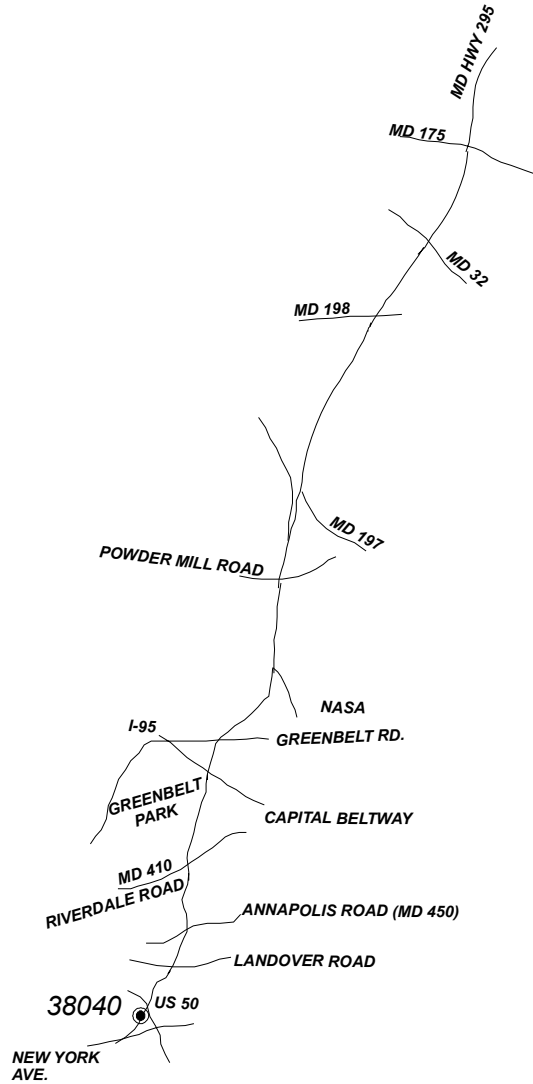


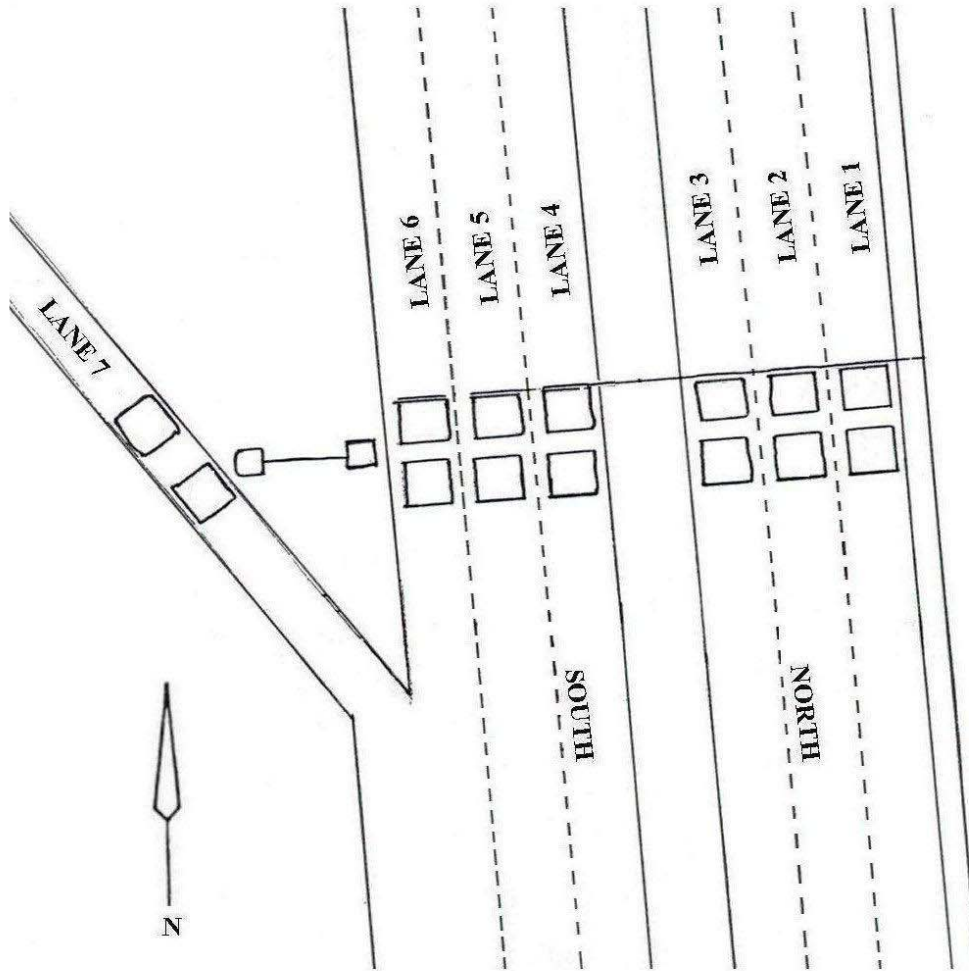
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.



Baltimore Washington Memorial Parkway

Maryland
U.S. Department of Interior
NATIONAL PARK SERVICE



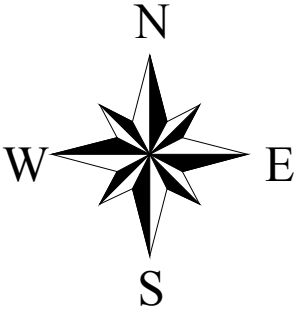


BALTIMORE WASHINGTON PARKWAY
STATION 38040
KENILWORTH AVENUE

*Devices labeled
on this sheet
cannot be verified
in the field.*

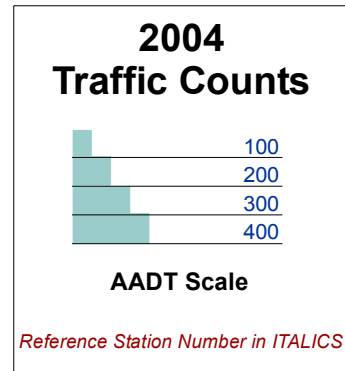
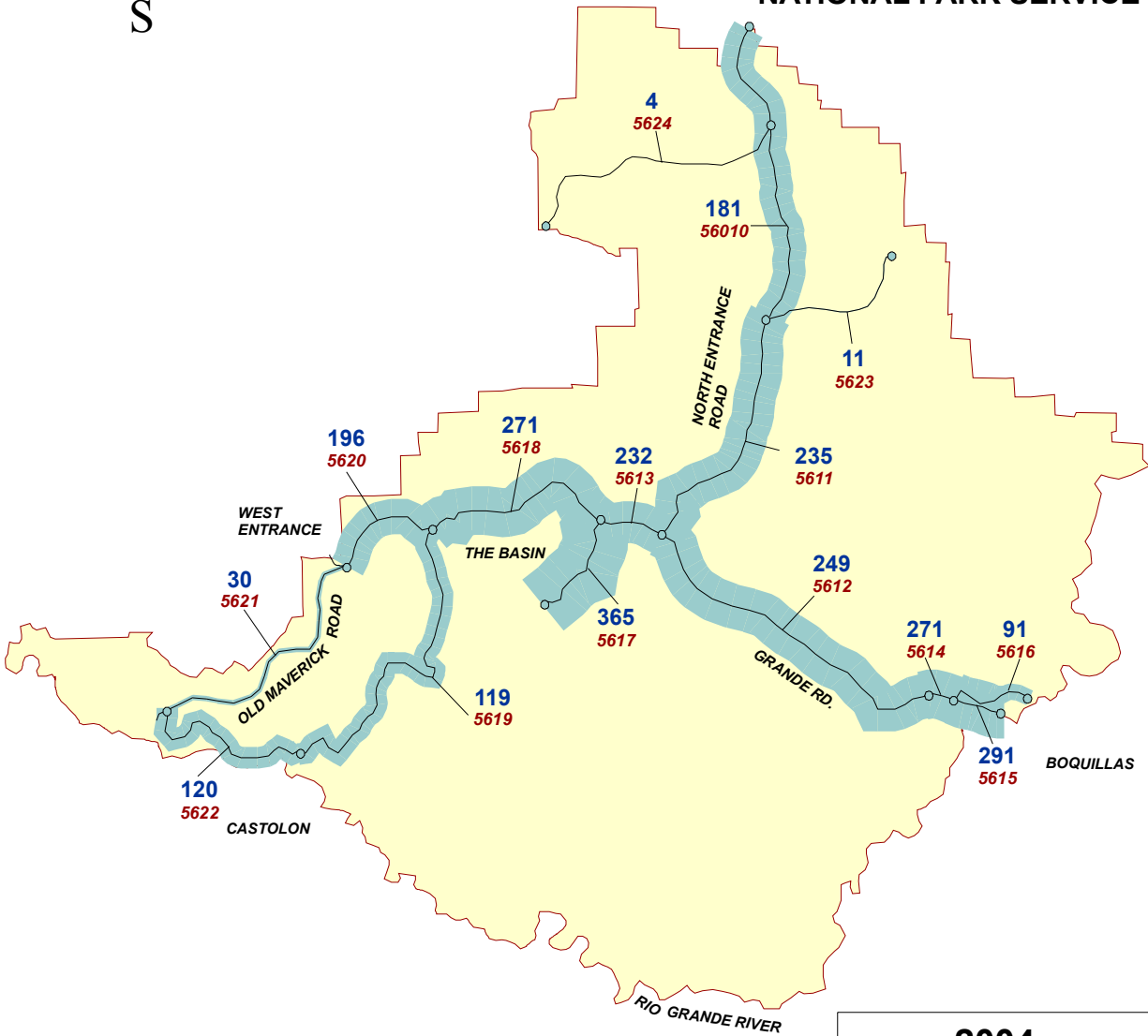
Big Bend National Park Traffic Package





Big Bend National Park Texas

U.S. Department of Interior
NATIONAL PARK SERVICE



BIG BEND NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta.		AADT				VMT(1000's)			
		ID.	Length	1988	1991	1994	2004	1988	1991	1994	2004
11	North Entrance Rd. - Panther Jct. to Dagger Flat Rd.	5611	13.18	194	243	218	235	933	1169	1049	1131
11	North Entrance Rd. - Dagger Flat Rd. to North Entrance	56010	14.35	216	210	293	181	1131	1100	1535	948
12	Rio Grande Rd. - Panther Jct. to Old Ore Rd.	5612	18.94	77	605	504	249	532	4182	3484	1721
12	Rio Grande Rd. - Old Ore Rd. to Rio Grande Village	5614	1.40	295	473	239	271	151	242	122	138
13	West Entrance Rd. - West Entrance to Castolon Rd.	5620	8.90	396	319	277	196	1286	1036	900	637
13	West Entrance Rd. - Castolon Rd. to Chisos Basin Rd.	5618	9.02	443	360	293	271	1458	1185	965	892
13	West Entrance Rd. - Chisos Basin Rd. to Panther Jct.	5613	4.00	485	576	599	232	708	841	875	339
14	Chisos Basin Rd. - West Entrance Rd. to Chisos Basin	5617	6.50	434	479	472	365	1030	1136	1120	866
15	Castolon Rd. - West Entrance Rd. to Cottonwood Campground	5619	23.18	143	145	176	119	1210	1227	1489	1007
16	Santa Elena Canyon Rd. - Cottonwood Campgrmd to End of Road	5622	7.70	120	181	132	120	337	509	371	337
100*	Old Marathon Road - North Entrance Rd to West Park Bdry.	5624	23.89	12	3	3	4	105	26	26	35
101	Dagger Flat Rd. - North Entrance Rd. to East End of Road	5623	7.73	6	18	9	11	17	51	25	31
109	Boquillas Canyon Rd. - Rio Grande Village to End of Road	5616	3.60	119	214	125	91	156	281	164	120
115	Old Maverick Rd -W. Entrance Rd. to Santa Elena Canyon Rd.	5621	12.89	4	57	33	30	19	268	155	141
201	Rio Grande Village Rd. - Rio Grande Rd. to Campground	5615	3.14	360	401	167	291	413	460	191	334
VMT SUMMARY								9487	13713	12471	8202

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

* Route name and route mileage has changed since the 1994 report

BIG BEND NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
56010	North Entrance Rd. - Dagger Flat Rd. to North Entrance						206	181 Self
5611	North Entrance Rd. - Panther Jct. to Dagger Flat Rd.	11/20/2004	352	0.76015	0.66667	268	235	56010
5612	Rio Grande Rd. - Panther Jct. to Old Ore Rd.	11/20/2004	373	0.76015	0.66667	284	249	56010
5613	West Entrance Rd. - Chisos Basin Rd. to Panther Jct.	11/20/2004	348	0.76015	0.66667	265	232	56010
5614	Rio Grande Rd. - Old Ore Rd. to Rio Grande Village	11/20/2004	407	0.76015	0.66667	309	271	56010
5615	Rio Grande Village Rd. - Rio Grande Rd. to Campground	11/20/2004	436	0.76015	0.66667	331	291	56010
5616	Boquillas Canyon Rd. - Rio Grande Village to End of Road	11/20/2004	136	0.76015	0.66667	103	91	56010
5617	Chisos Basin Rd. - West Entrance Rd. to Chisos Basin	11/20/2004	548	0.76015	0.66667	417	365	56010
5618	West Entrance Rd. - Castolon Rd. to Chisos Basin Rd.	11/20/2004	406	0.76015	0.66667	309	271	56010
5619	Castolon Rd. - West Entrance Rd. to Cottonwood Campground	11/20/2004	179	0.76015	0.66667	136	119	56010
5620	West Entrance Rd. - West Entrance to Castolon Rd.	11/20/2004	294	0.76015	0.66667	223	196	56010
5621	Old Maverick Rd -W. Entrance Rd. to Santa Elena Canyon Rd.							30 *
5622	Santa Elena Canyon Rd. - Cottonwood Campgrnd to End of Road							120 *
5623	Dagger Flat Rd. - North Entrance Rd. to East End of Road	11/20/2004	16	0.76015	0.66667	12	11	56010
5624	Old Marathon Road - North Entrance Rd to West Park Bdry.	11/20/2004	6	0.76015	0.66667	5	4	56010

Note: * No data were collected. Roads were closed due to washout. Traffic estimates are based on 1994 AADT estimate factored by park GF of 0.91.
 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.

BIG BEND NATIONAL PARK

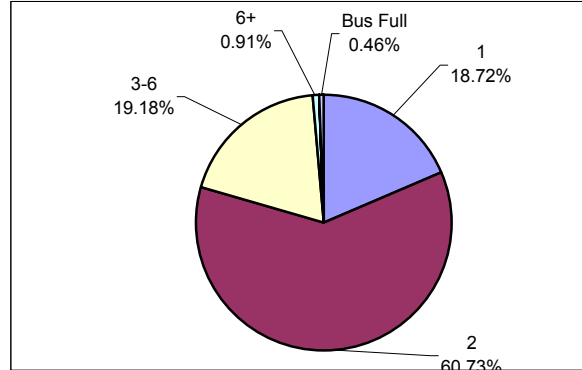
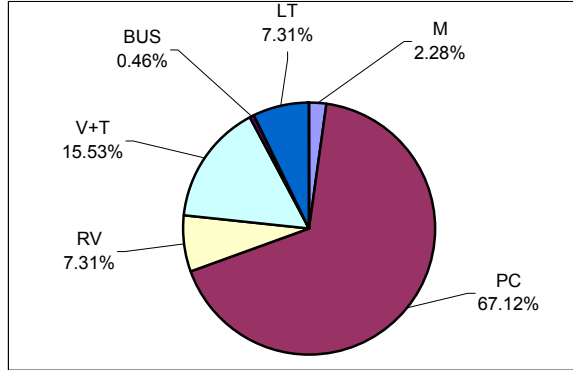
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

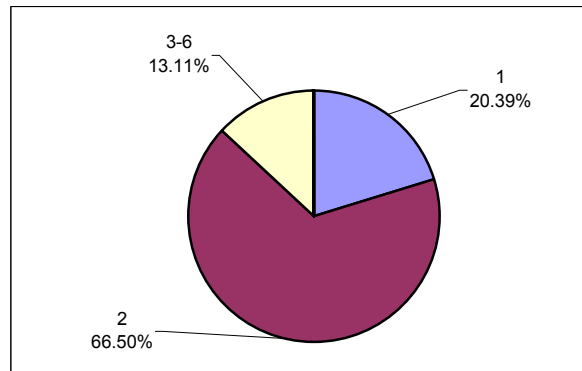
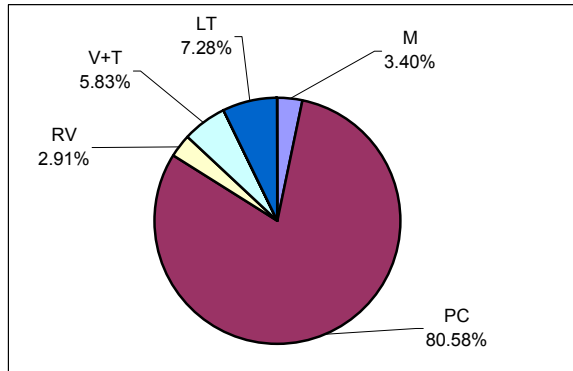
Location: STATION 56010

Location: STATION 56010



Location: STATION 5620

Location: STATION 5620



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

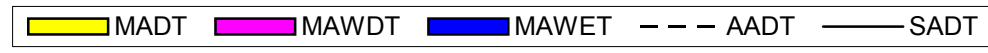
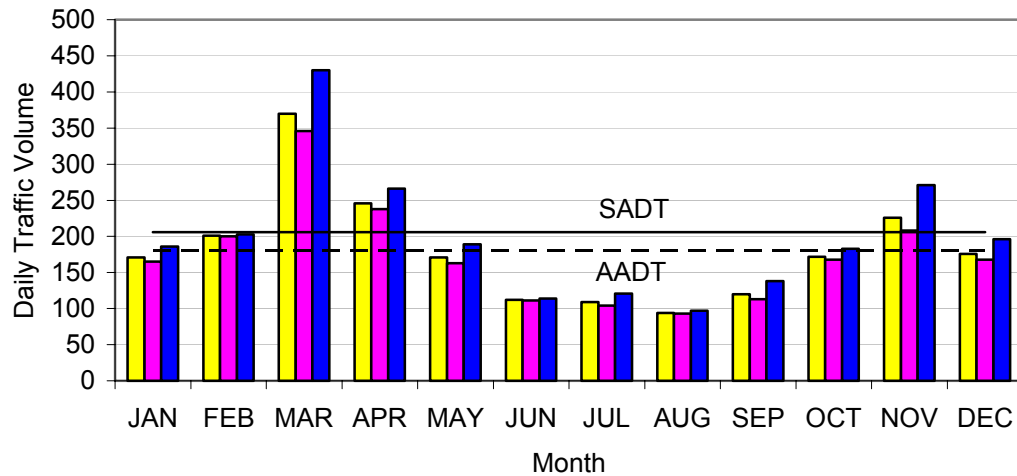
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

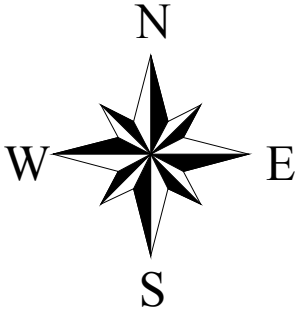
BIG BEND NATIONAL PARK

Station: 56010 North Entrance Rd. - Dagger Flat Rd. to North Entrance

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	2004	171	165	186	0.9713	1.1075
2	2004	201	200	203	0.8900	1.0148
3	2004	370	346	430	0.4202	0.4791
4	2004	246	238	266	0.6792	0.7744
5	2004	171	163	189	0.9559	1.0899
6	2004	112	111	114	1.5848	1.8070
7	2004	109	104	121	1.4931	1.7025
8	2004	94	93	97	1.8625	2.1237
9	2004	120	113	138	1.3092	1.4928
10	2004	172	168	183	0.9872	1.1257
11	2004	226	208	271	0.6667	0.7601
12	2003	176	168	196	0.9218	1.0510
Annual Average Daily Traffic (AADT)				181		
Annual Average Weekday Traffic (AAWDT)				173		
Annual Average Weekend Traffic (AAWET)				200		
Seasonal Average Daily Traffic (SADT)				206		

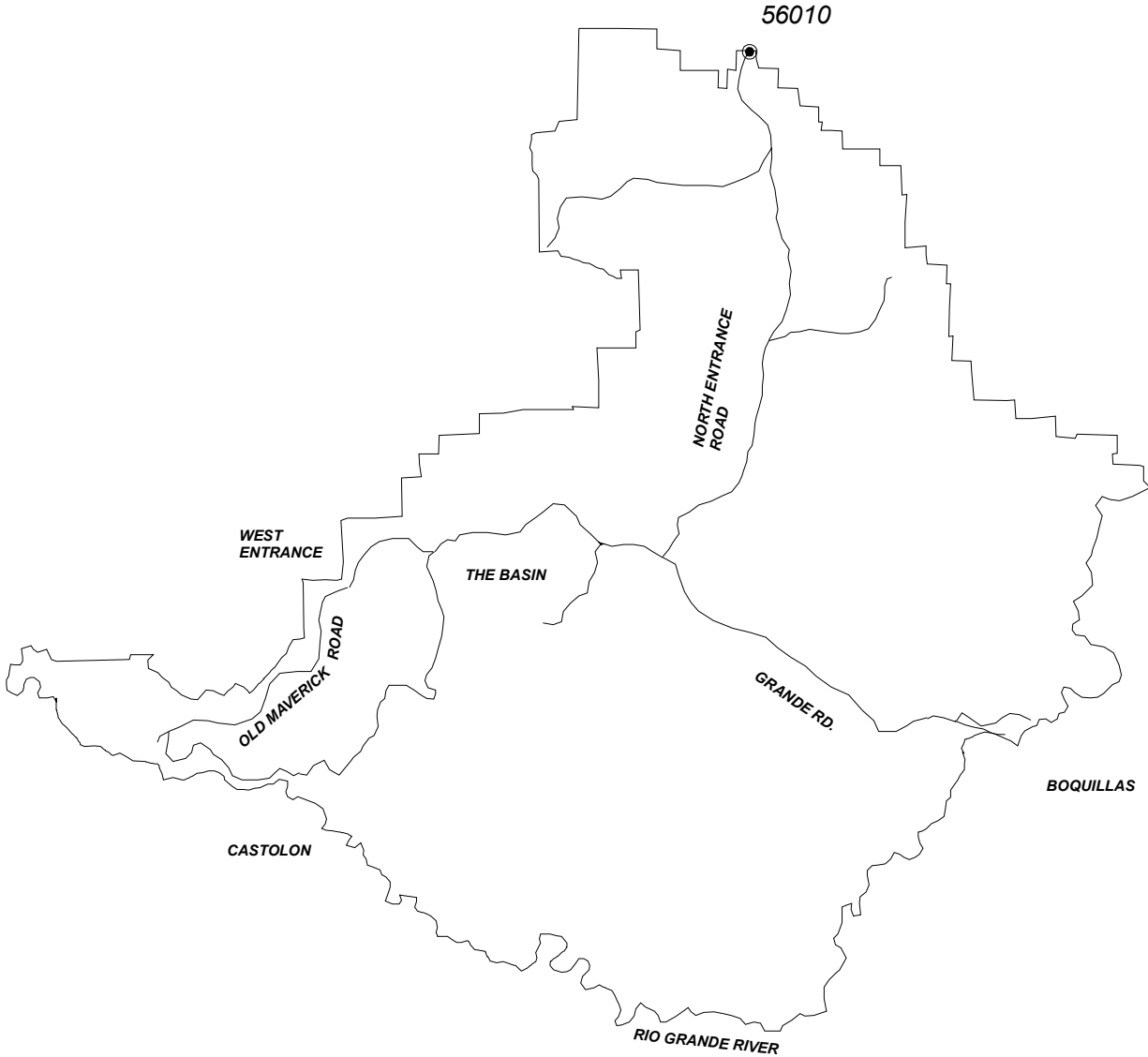


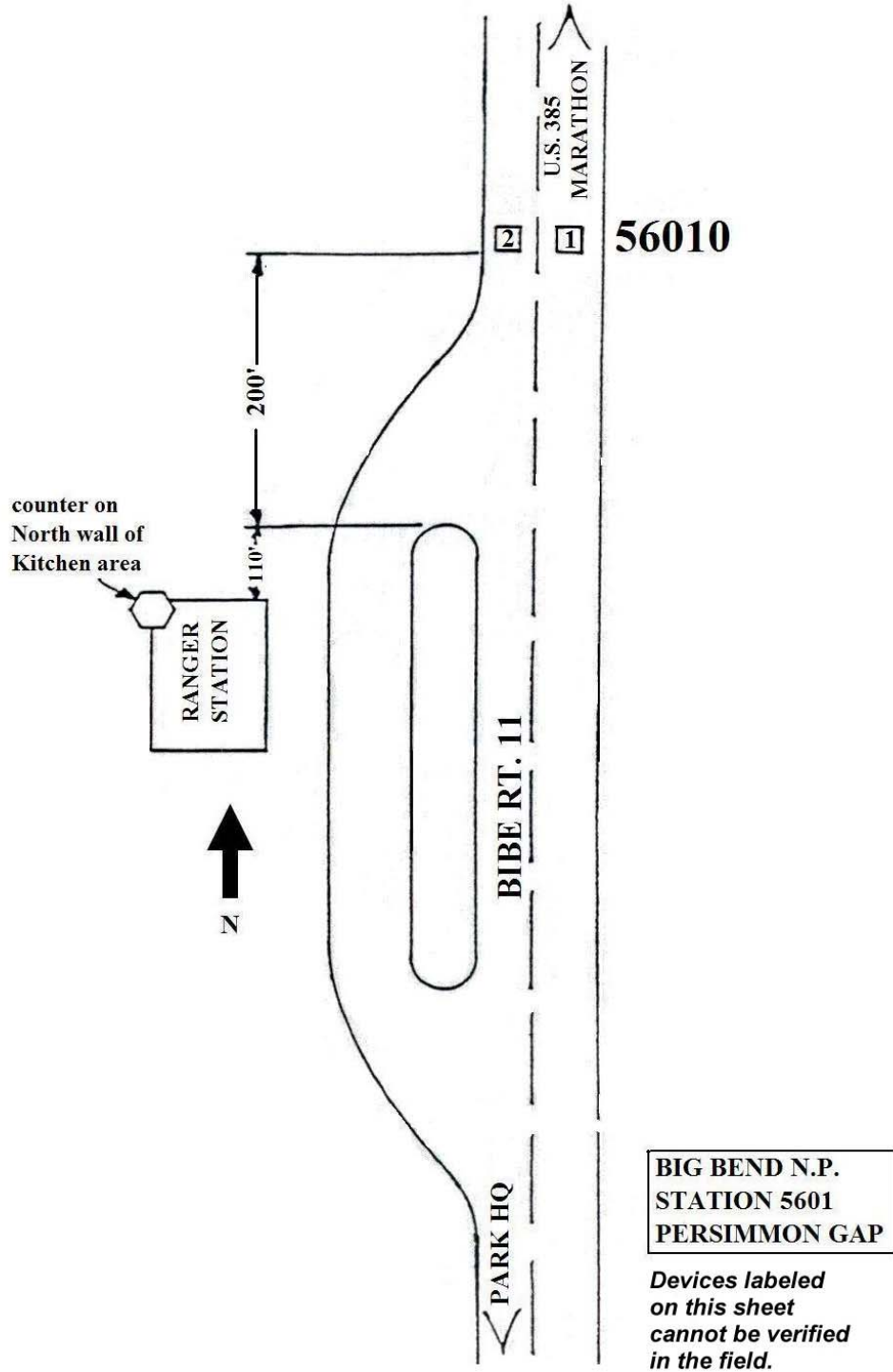
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.



Big Bend National Park Texas

U.S. Department of Interior
NATIONAL PARK SERVICE





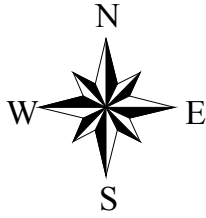
Blue Ridge Parkway Traffic Package



An eight mile section of the Blue Ridge Parkway south of Linville Falls, North Carolina remains closed due to damage from a series of damaging tropical storms last fall, 2004. Visitation is substantially affected by this closure. The Blue Ridge Parkway traffic package will be provided as an addendum upon its completion, anticipated in June 2006.

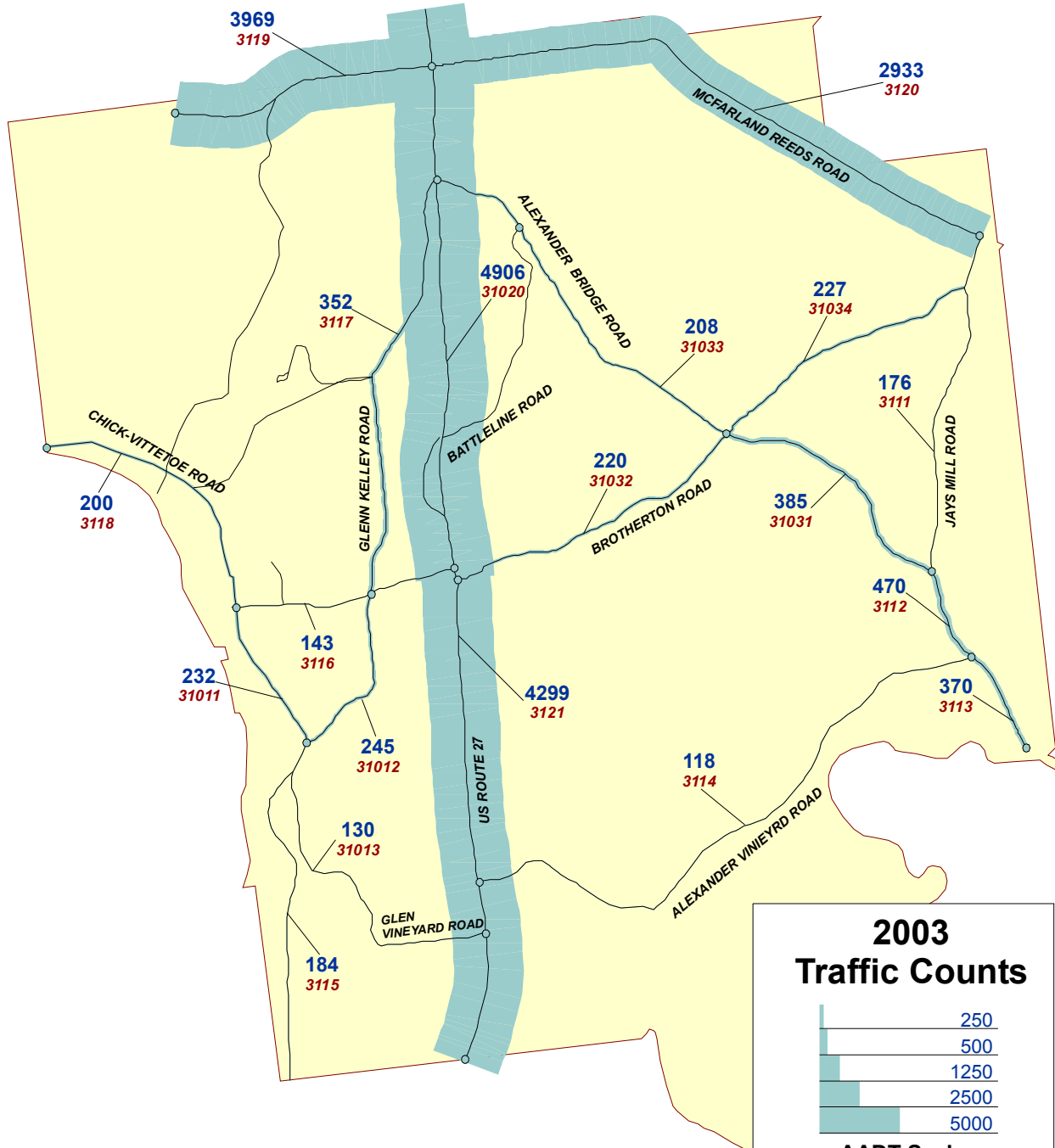
Chickamauga/Chattanooga National Military Park Traffic Package





Chickamauga & Chattanooga National Military Park

Georgia
U.S. Department of Interior
NATIONAL PARK SERVICE



**2003
Traffic Counts**

	250
	500
	1250
	2500
	5000

AAADT Scale

Reference Station Number in ITALICS

CHICKAMAUGA AND CHATTANOOGA

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	McFarland Reeds Rd. - West Park Boundary to U.S.Hwy. 27	3119	0.96	6300	3778	5344	3969	2208	1324	1873	1391
10	Reeds Bridge Rd. - U.S. Hwy. 27 to East Park Boundary	3120	1.98	6300	3153	4170	2933	4553	2279	3014	2120
11	U.S. Hwy. 27 - Harker Rd. to Brotherton Road	31020*	1.82	14226	15360	14401	4906	9450	10204	9567	3259
11	U.S. Hwy. 27 - Brotherton Road to South Park Boundary	3121*	1.56	14226	14923	20849	4299	8100	8497	11871	2448
13	Alexander Bridge Rd. - U.S. Hwy. 27 to Brotherton Road	31033	1.34	438	454	490	208	214	222	240	102
13	Alexander Bridge Rd. - Brotherton Road to Jays Mill Road	31031	0.81	438	454	490	385	129	134	145	114
13	Alexander Bridge Rd. - Jays Mill Road to Alexander Vineyard Rd.	3112	0.25	438	501	743	470	40	46	68	43
13	Alexander Bridge Rd. - Alexander Vineyard Rd. to So. Park Bndry.	3113	0.48	438	362	671	370	77	63	118	65
100	Jays Mill Road - Reed's Bridge Road to Alexander Bridge Rd.	3111	1.09	100	233	260	176	40	93	103	70
101	Dyer Road - Chick Vittetoe Rd. to U.S. Hwy. 27	3116	0.77	100	797	732	143	28	224	206	40
102	Brotherton Rd. - U.S. Hwy. 27 to Alexander Bridge Rd.	31032	1.03	247	260	281	220	93	98	106	83
102	Brotherton Rd. - Alexander Bridge Rd. to Jays Mill Road	31034	0.93	247	260	281	227	84	88	95	77
103	Alexander Vineyard Rd. - Alexander Br. Rd. to U.S. Hwy. 27	3114	2	525	125	135	118	383	91	99	86
105	Chick Vittetoe Rd. - West Park Bdry. To Vittetoe Road	3118	0.44	534	377	151	200	86	61	24	32
105	Chick Vittetoe Rd. - Vittetoe Road to Glenn Kelley Rd.	31011	1.37	534	616	769	232	267	308	385	116
105	Chick Vittetoe Rd. - Glenn Kelley Rd. to S. Park Bndry.	3115	1.18	436	1208	267	184	188	520	115	79
500	Glenn Kelley Rd. - Chick Vittetoe Rd. to Dyer Road	31012	0.63	466	518	544	245	107	119	125	56
500	Glenn Kelley Rd. - Dyer Road to U.S. Hwy 27	3117	1.37	466	439	336	352	233	220	168	176
503	Glen Vineyard Rd. - U.S. Hwy 27 to Chick Vittetoe Rd.	31013	1.08			198	130			78	51
VMT SUMMARY								26280	24590	28398	10408

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

* Decline in daily volumes is evidenced both by continuous (annual trend) and short-term counts.

CHICKAMAUGA AND CHATTANOOGA

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
31011	Chick Vittetoe Rd. - Vittetoe Road to Glenn Kelley Rd.					253	232	Self
31012	Glenn Kelley Rd. - Chick Vittetoe Rd. to Dyer Road					269	245	Self
31013	Glen Vineyard Rd. - U.S. Hwy 27 to Chick Vittetoe Rd.					146	130	Self
31020	U.S. Hwy. 27 - Harker Rd. to Brotherton Road					5017	4906	Self
31031	Alexander Bridge Rd. - Brotherton Road to Jays Mill Road	8/2/2003	398	0.99033	0.96835	394	385	31020
31032	Brotherton Rd. - U.S. Hwy. 27 to Alexander Bridge Rd.	8/2/2003	227	0.99033	0.96835	225	220	31020
31033	Alexander Bridge Rd. - U.S. Hwy. 27 to Brotherton Road	8/2/2003	215	0.99033	0.96835	213	208	31020
31034	Brotherton Rd. - Alexander Bridge Rd. to Jays Mill Road	8/2/2003	234	0.99033	0.96835	232	227	31020
3111	Jays Mill Road - Reed's Bridge Road to Alexander Bridge Rd.	8/2/2003	182	0.99033	0.96835	180	176	31020
3112	Alexander Bridge Rd. - Jays Mill Road to Alexander Vineyard Rd.	8/2/2003	485	0.99033	0.96835	480	470	31020
3113	Alexander Bridge Rd. - Alexander Vineyard Rd. to So. Park Bndry	8/2/2003	382	0.99033	0.96835	378	370	31020
3114	Alexander Vineyard Rd. - Alexander Br. Rd. to U.S. Hwy. 27	8/2/2003	122	0.99033	0.96835	121	118	31020
3115	Chick Vittetoe Rd. - Glenn Kelley Rd. to S. Park Bndry.	8/2/2003	243	0.8268	0.75763	201	184	31011
3116	Dyer Road - Chick Vittetoe Rd. to U.S. Hwy. 27	8/2/2003	210	0.7493	0.68152	157	143	31012
3117	Glenn Kelley Rd. - Dyer Road to U.S. Hwy 27	8/2/2003	516	0.7493	0.68152	387	352	31012
3118	Chick Vittetoe Rd. - West Park Bdry. To Vittetoe Road	8/2/2003	264	0.8268	0.75763	218	200	31011
3119	McFarland Reeds Rd. - West Park Boundary to U.S.Hwy. 27	8/2/2003	4099	0.99033	0.96835	4059	3969	31020
3120	Reeds Bridge Rd. - U.S. Hwy. 27 to East Park Boundary	8/2/2003	3029	0.99033	0.96835	3000	2933	31020
3121	U.S. Hwy. 27 - Brotherton Road to South Park Boundary	8/2/2003	4440	0.99033	0.96835	4397	4299	31020

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.

CHICKAMAUGA AND CHATTANOOGA

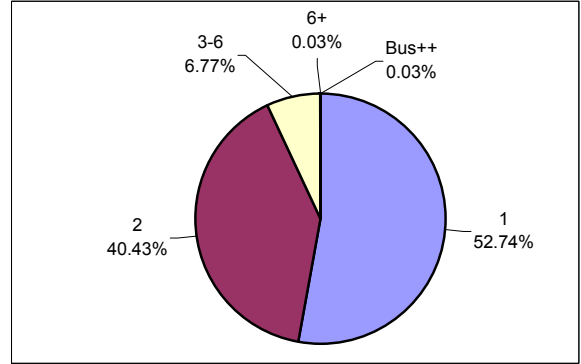
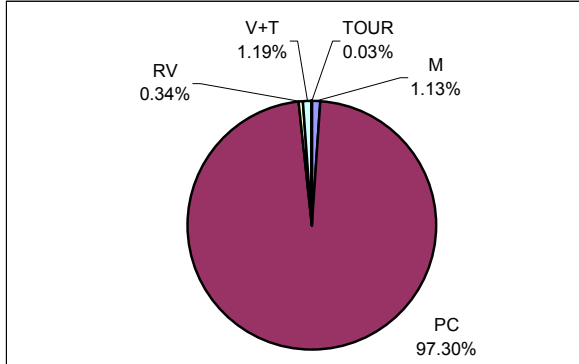
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

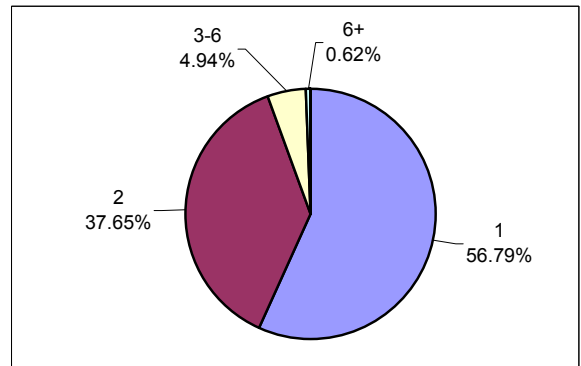
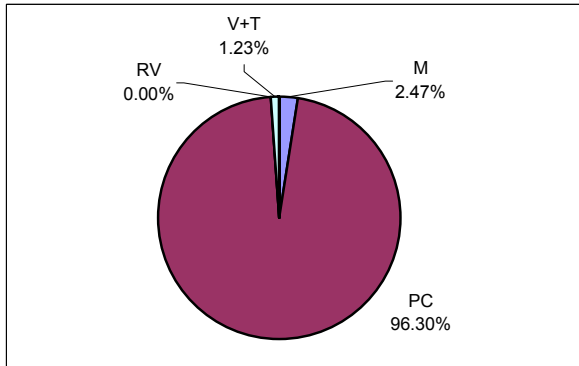
Location: STATION 31020

Location: STATION 31020



Location: STATION 3113

Location: STATION 3113



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

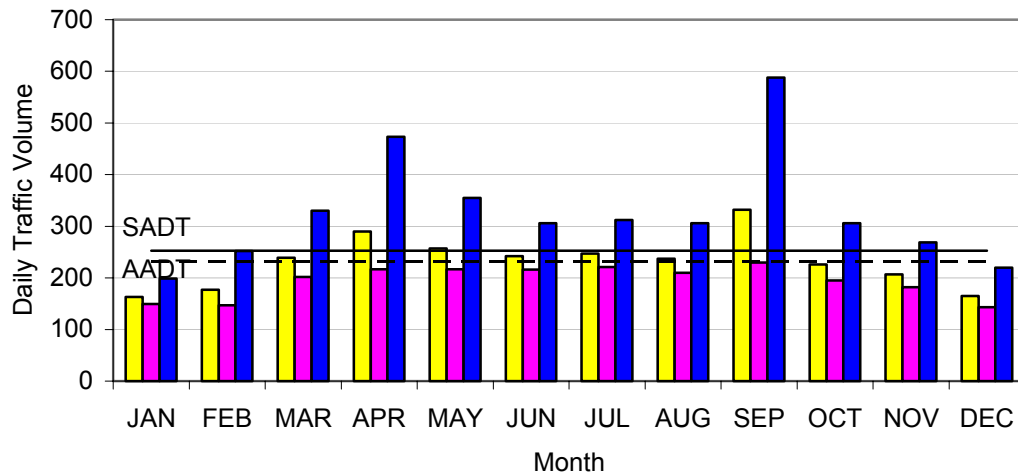
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

CHICKAMAUGA AND CHATTANOOGA

Station: 31011 Chick Vittetoe Rd. - Vittetoe Road to Glenn Kelley Rd.

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	163	149	199	1.1650	1.2714
2	2003	177	147	252	0.9200	1.0040
3	2003	239	202	330	0.7025	0.7667
4	2003	290	217	473	0.4901	0.5349
5	2003	257	217	355	0.6531	0.7127
6	2003	242	216	306	0.7576	0.8268
7	2003	247	221	312	0.7431	0.8109
8	2003	237	210	306	0.7576	0.8268
9	2003	332	230	588	0.3943	0.4303
10	2002	226	195	306	0.7576	0.8268
11	2002	207	182	269	0.8618	0.9405
12	2002	165	143	220	1.0538	1.1500
Annual Average Daily Traffic (AADT)				232		
Annual Average Weekday Traffic (AAWDT)				194		
Annual Average Weekend Traffic (AAWET)				326		
Seasonal Average Daily Traffic (SADT)				253		

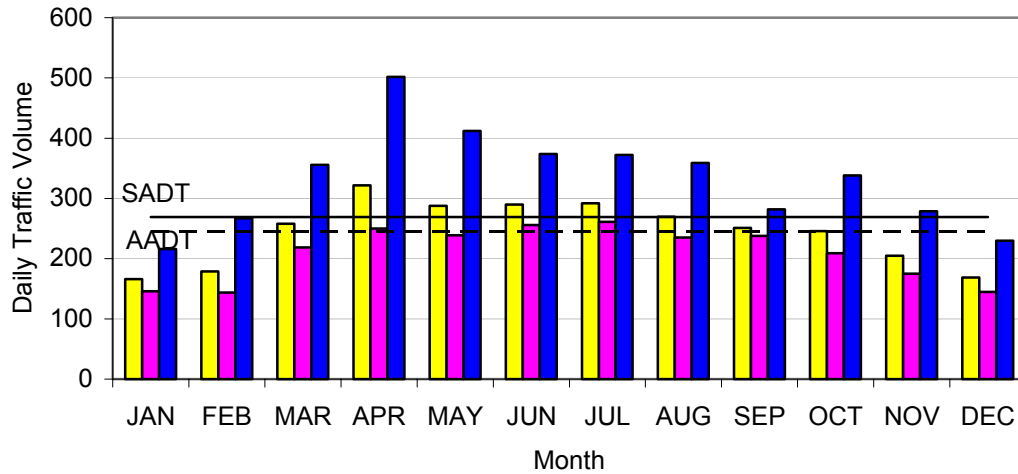


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

CHICKAMAUGA AND CHATTANOOGA

Station: 31012 Glenn Kelley Rd. - Chick Vittetoe Rd. to Dyer Road

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	166	146	216	1.1327	1.2454
2	2003	179	144	267	0.9164	1.0075
3	2003	258	219	356	0.6873	0.7556
4	2003	322	250	502	0.4874	0.5359
5	2003	288	239	412	0.5939	0.6529
6	2003	290	256	374	0.6542	0.7193
7	2003	292	261	372	0.6577	0.7231
8	2003	270	235	359	0.6815	0.7493
9	2003	251	238	282	0.8676	0.9539
10	2002	246	209	338	0.7239	0.7959
11	2002	205	175	279	0.8769	0.9642
12	2002	169	145	230	1.0638	1.1696
Annual Average Daily Traffic (AADT)				245		
Annual Average Weekday Traffic (AAWDT)				210		
Annual Average Weekend Traffic (AAWET)				332		
Seasonal Average Daily Traffic (SADT)				269		

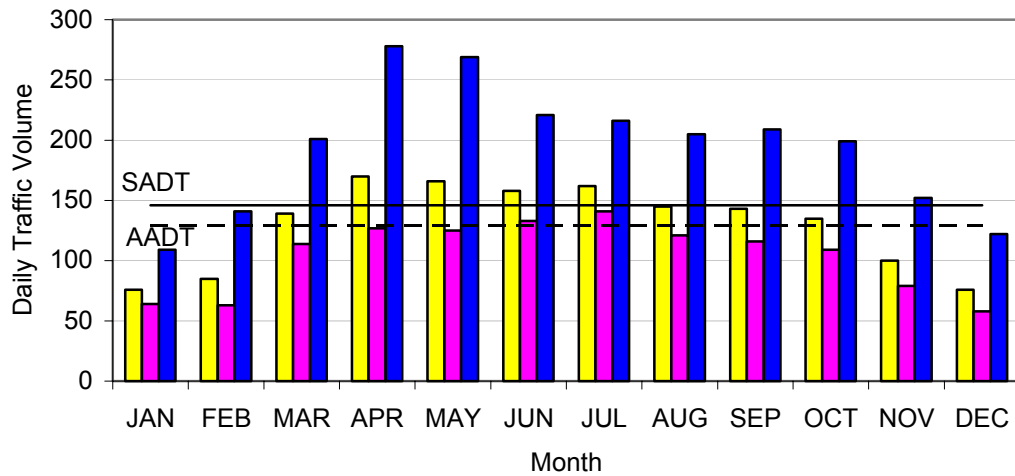


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

CHICKAMAUGA AND CHATTANOOGA

Station: 31013 Glen Vineyard Rd. - U.S. Hwy 27 to Chick Vittetoe Rd.

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	76	64	109	1.1888	1.3394
2	2003	85	63	141	0.9190	1.0355
3	2003	139	114	201	0.6447	0.7264
4	2003	170	127	278	0.4661	0.5252
5	2003	166	125	269	0.4817	0.5428
6	2003	158	133	221	0.5863	0.6606
7	2003	162	141	216	0.5999	0.6759
8	2003	145	121	205	0.6321	0.7122
9	2003	143	116	209	0.6200	0.6986
10	2002	135	109	199	0.6512	0.7337
11	2002	100	79	152	0.8525	0.9605
12	2002	76	58	122	1.0622	1.1967
Annual Average Daily Traffic (AADT)				130		
Annual Average Weekday Traffic (AAWDT)				104		
Annual Average Weekend Traffic (AAWET)				194		
Seasonal Average Daily Traffic (SADT)				146		

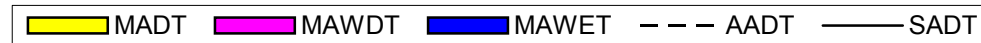
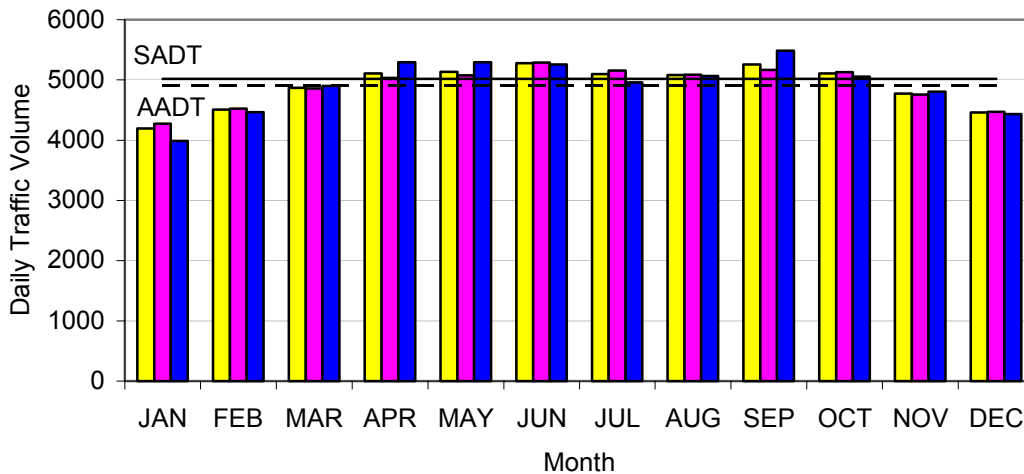


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

CHICKAMAUGA AND CHATTANOOGA

Station: 31020 U.S. Hwy. 27 - Harker Rd. to Brotherton Road

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	4194	4276	3990	1.2295	1.2574
2	2003	4506	4523	4464	1.0989	1.1239
3	2003	4868	4856	4899	1.0014	1.0241
4	2003	5108	5035	5292	0.9270	0.9480
5	2003	5137	5075	5293	0.9268	0.9479
6	2003	5280	5289	5257	0.9332	0.9543
7	2003	5097	5154	4957	0.9896	1.0121
8	2003	5082	5089	5066	0.9684	0.9903
9	2003	5256	5165	5484	0.8945	0.9148
10	2003	5109	5131	5054	0.9707	0.9927
11	2003	4771	4756	4807	1.0205	1.0437
12	2002	4460	4472	4431	1.1071	1.1323
Annual Average Daily Traffic (AADT)				4906		
Annual Average Weekday Traffic (AAWDT)				4902		
Annual Average Weekend Traffic (AAWET)				4916		
Seasonal Average Daily Traffic (SADT)				5017		

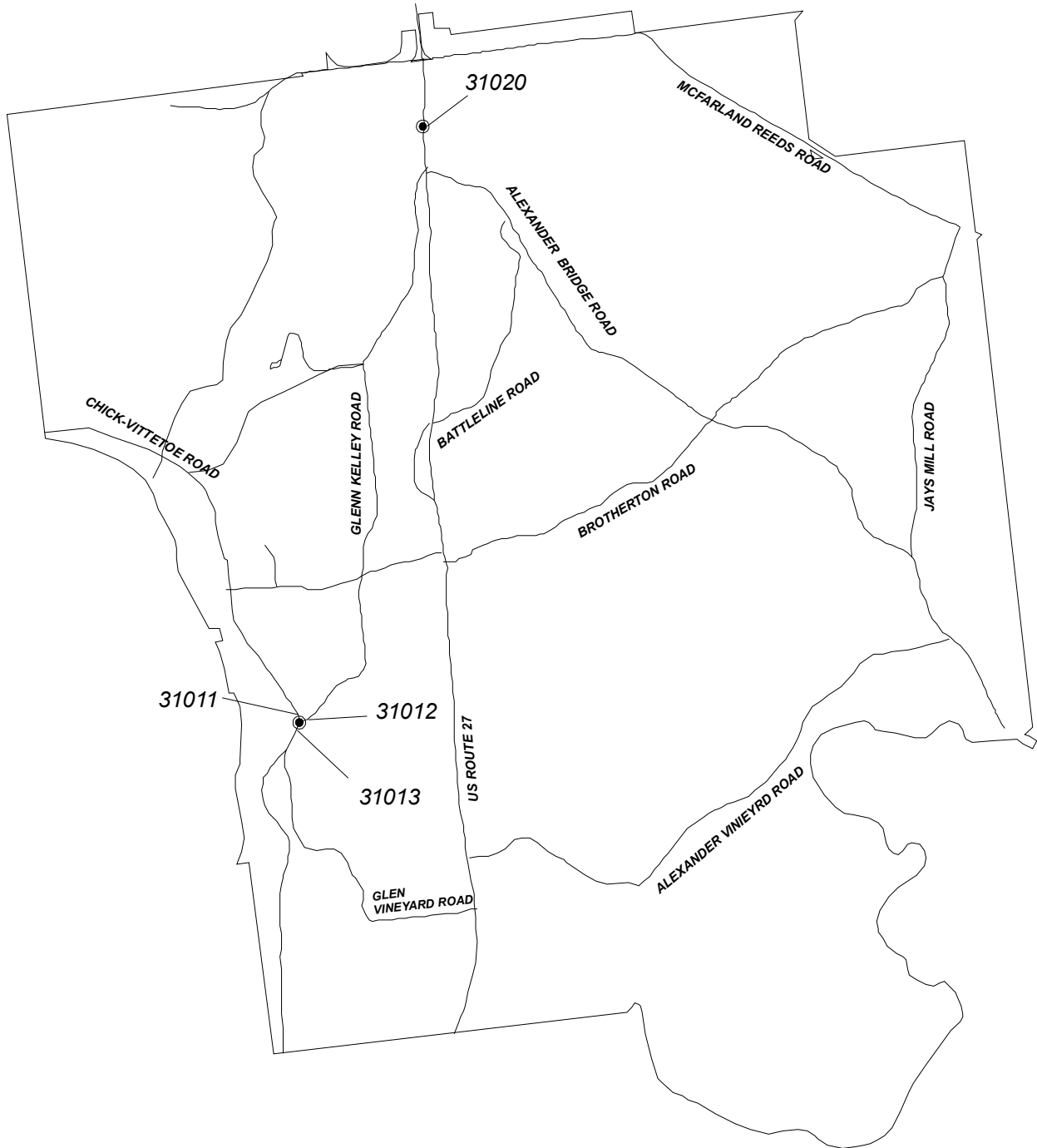
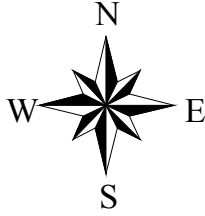


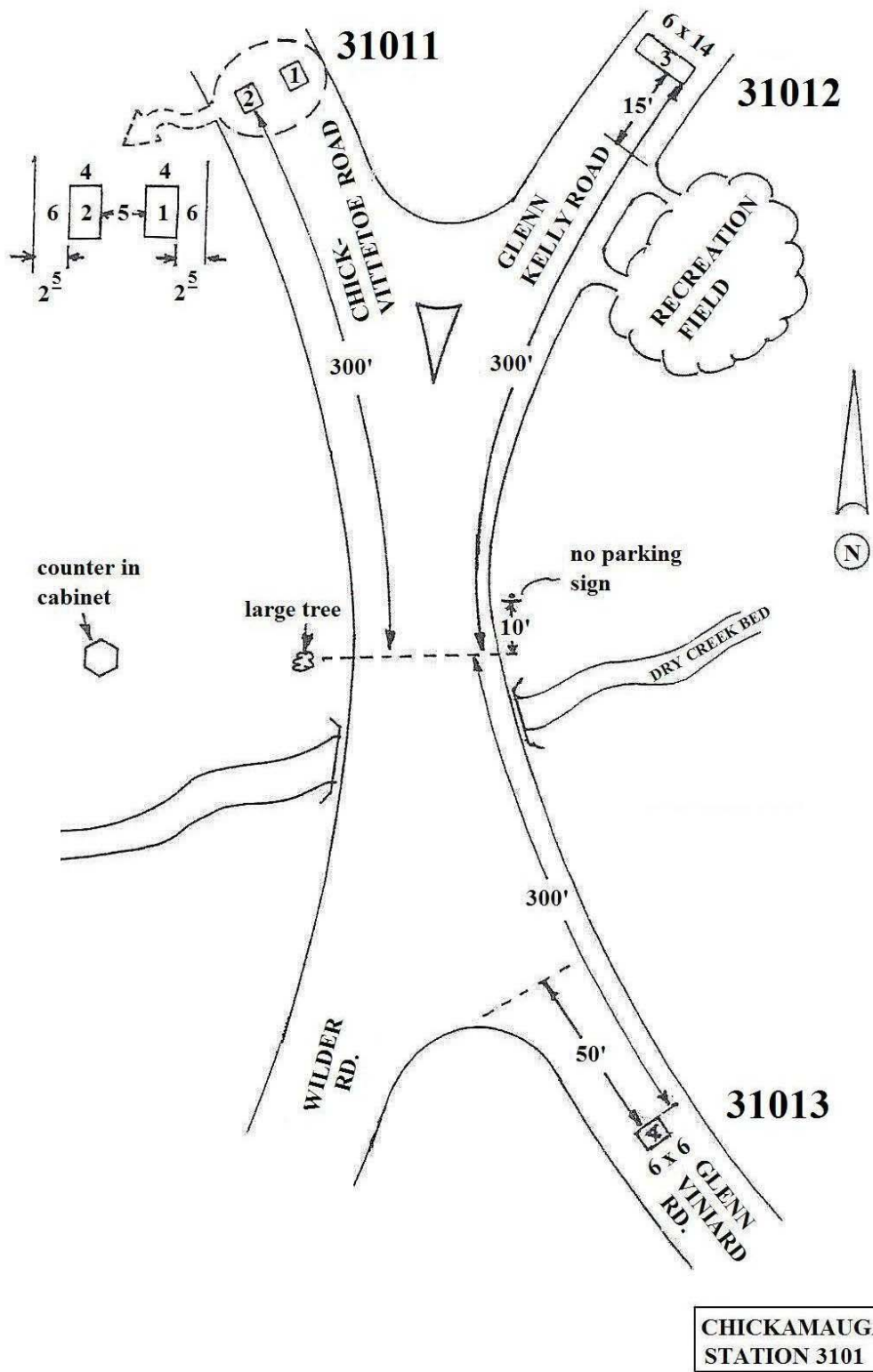
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

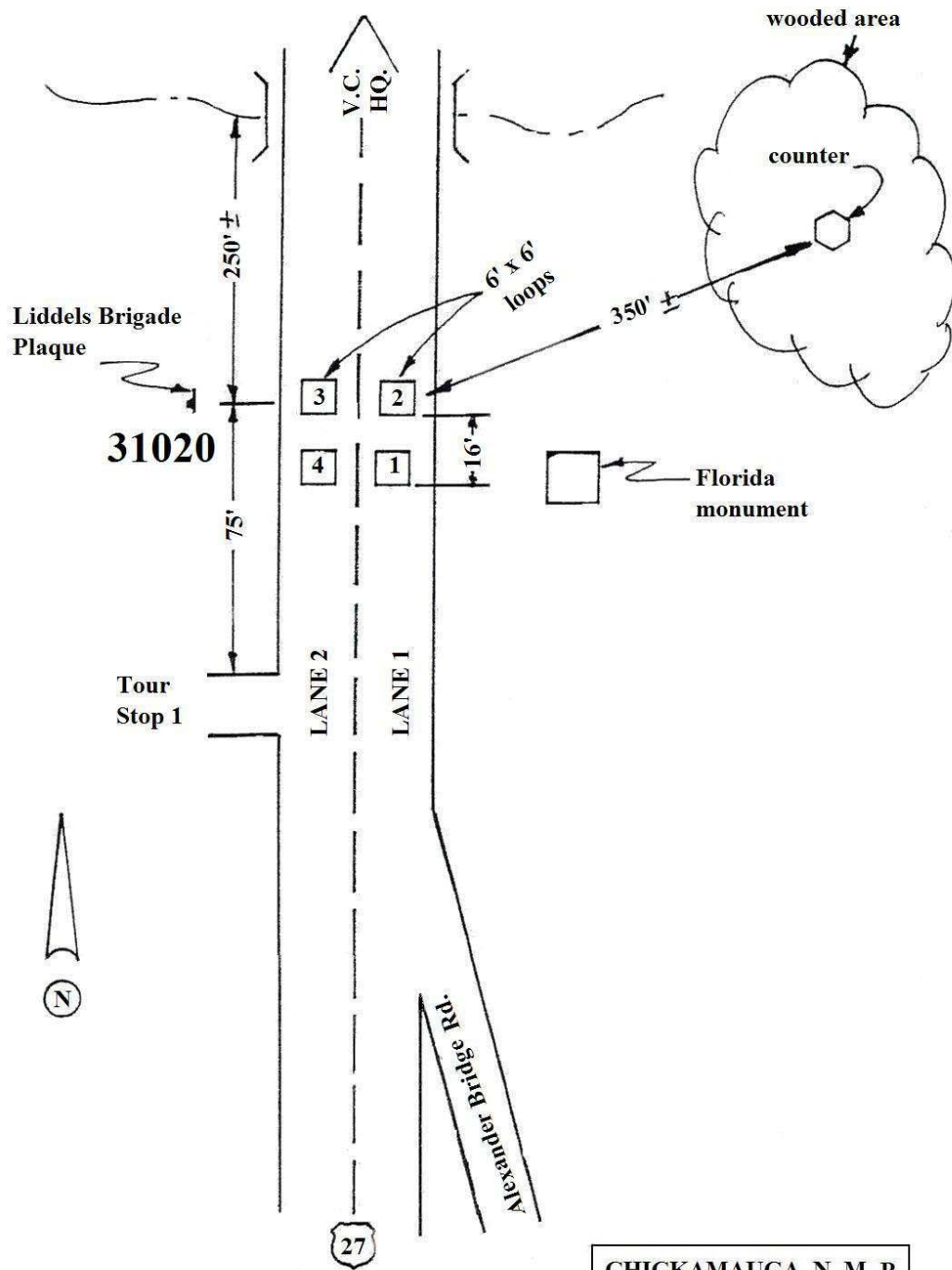
Chickamauga & Chattanooga National Military Park

Georgia

U.S. Department of Interior
NATIONAL PARK SERVICE







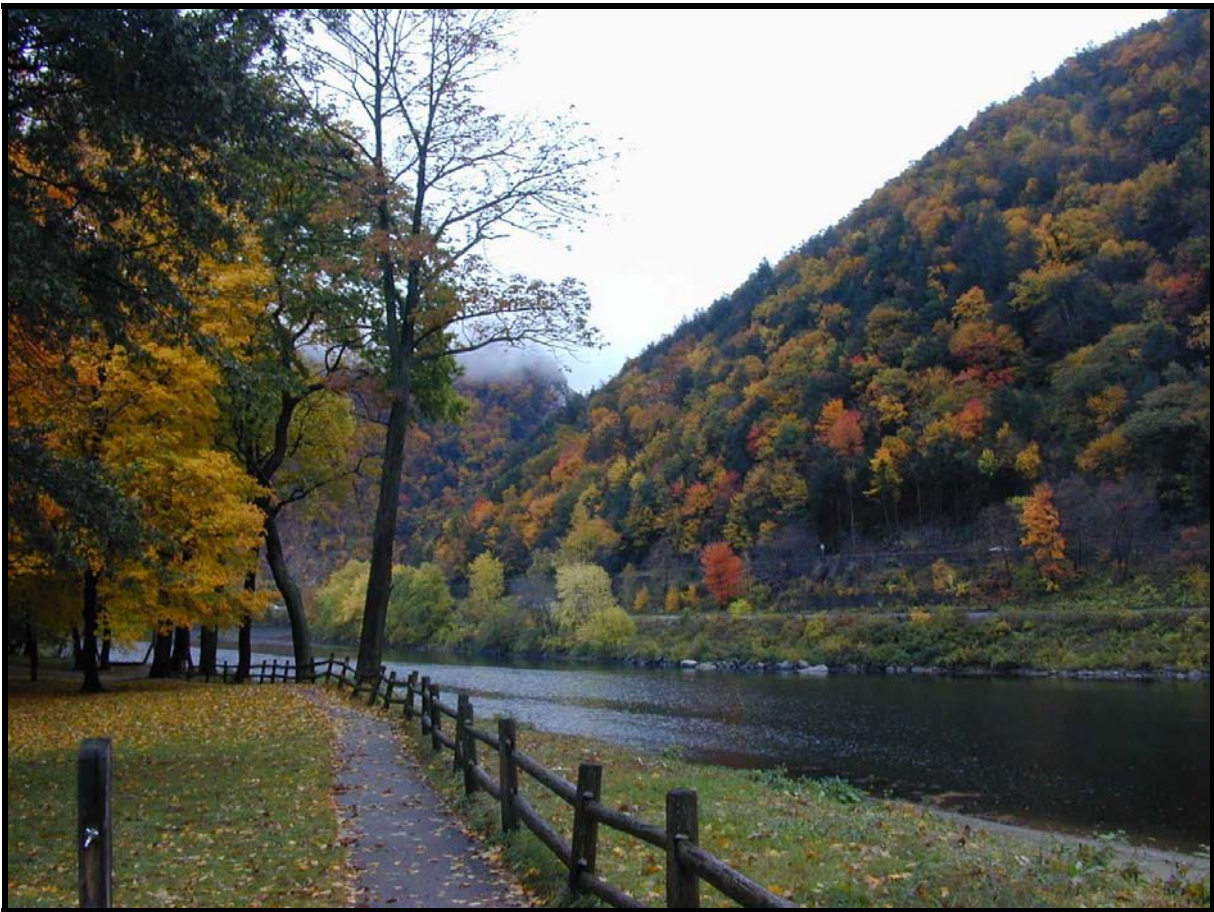
CHICKAMAUGA N.M.P.
STATION 3102

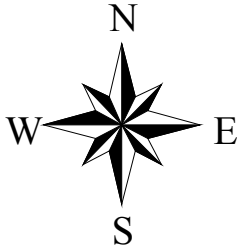
Colonial National Historic Park Traffic Package



The package will be provided as an addendum at a later date.

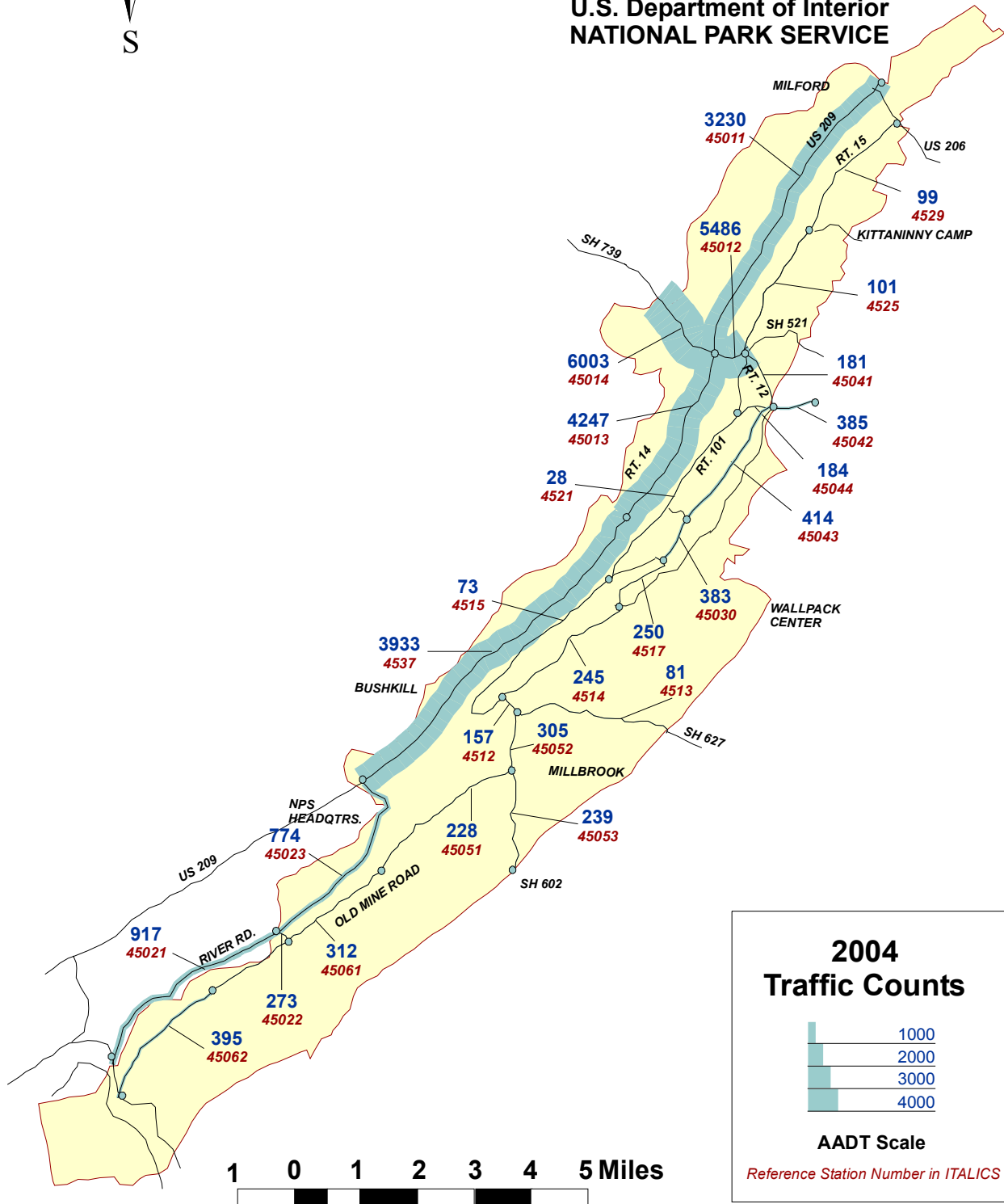
Delaware Water Gap National Recreation Area Traffic Package





Delaware Water Gap National Recreation Area

Pennsylvania
U.S. Department of Interior
NATIONAL PARK SERVICE



DELAWARE WATER GAP NATIONAL RECREATION AREA

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	Old Mine Rd. - I-80 to Worthington C.G	45062	3.25	10	14	190	395	12	17	225	469
10	Old Mine Rd. - Worthington C.G to Poxono/Depew	45061	4.87	130	185	200	312	231	329	356	555
10	Old Mine Rd. - Poxono/Depew to Millbrook Village	45051	4	213	240	327	228	311	350	477	333
10	Old Mine Rd. - Millbrook Village to Flatbrookville-Stillwater Rd.	45052	1.28	211	240	229	305	99	112	107	142
10	Old Mine Rd. - Flatbrookville-Stillwater Rd. to Flatbrookville	4512	0.49	145	410	465	157	26	73	83	28
10	Old Mine Rd. - Flatbrookville to Pompey Rd.	4515	5.37	57	81	92	73	112	159	180	143
101	Old Mine Rd. - Pompey Rd.to Peter's Valley	4521	4.42	9	30	34	28	15	48	55	45
15	Old Mine Rd. - Dingmans Ferry Rd. to Jager Rd.	4525	3.17	54	70	79	101	62	81	91	117
15	Old Mine Rd. - Jager Rd. to U.S 206	4529	3.16	43	70	79	99	50	81	91	114
12	River Rd. -South Bdry. to Smithfield Beach Rd.	45021	1.5	790	888	1008	917	433	486	552	502
12	River Rd. -Smithfield Rd. to U.S 209	45023	4.6	150	150	840	774	252	252	1410	1300
14	U.S 209 - South Bdry. to PEEC Road	4537	8.3	4780	4780	5425	3933	14481	14481	16435	11915
14	U.S 209 - PEEC Road to PA Hwy. 739	45013	4.8	4600	4600	4733	4247	8059	8059	8292	7441
14	U.S 209 - PA Hwy. 739 to North Bdry.	45011	7.8	3425	3425	4257	3230	9751	9751	12120	9196
100	Flatbrookville/Stillwater Rd.-Old Mine Rd. to East Bdry.	4513	3.5	50	50	57	81	64	64	73	103
12	Dingmans-Peters Valley Rd - Peters Valley to Old Mine Rd.	45041	1.6	170	175	76	181	99	102	44	106
214	Smithfield Beach Access Rd.-River Rd. to End.	45022	0.3	270	255	168	273	30	28	18	30
11	Kuhns Rd. - Peters Valley to Thunder Mtn. Rd.	45044	2.2	190	173	67	184	153	139	54	148
	S.H 615 - Flatbrookville to Mountain Top Rd.	4514	3.4	108	153	174	245	134	190	216	304
	S.H 615 - Mountain Top Rd. to Pompey Rd.	4517	1.77	168	239	271	250	109	154	175	162
	S.H 615 - Pompey Rd. to N.J Ranger Station	45030	1.68	286	407	462	383	175	250	283	235
	S.H 615 - N.J Ranger Station to Peter's Valley	45043	2.593	110	156	178	414	104	148	168	392
	S.H 615 - Peter's Valley to Park Boundary	45042	2.572	124	176	201	385	116	165	189	361
	Millbrook-Blairston Rd.- Millbrook Village to Park Boundary	45053	2.461	211	300	341	239	190	269	306	215

Note: AADT – Annual Average Daily Traffic
VMT– Vehicle Miles of Travel

35066 35789 42003 34354

DELAWARE WATER GAP NATIONAL RECREATION AREA

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
45012	PA HIGHWAY 739 EAST OF U.S 209					5638	5486	Self
45013	U.S 209 - PEEC Road to PA Hwy. 739					4572	4247	Self
45014	PA HIGHWAY 739 WEST OF U.S. 209					6150	6003	Self
45030	S.H 615 - Pompey Rd. to N.J Ranger Station					426	383	Self
45041	Dingmans-Peters Valley Rd - Peters Valley to Old Mine Rd.					223	181	Self
45042	S.H 615 - Peter's Valley to Park Boundary					433	385	Self
45043	S.H 615 - N.J Ranger Station to Peter's Valley					470	414	Self
45053	Millbrook-Blairston Rd.- Millbrook Village to Park Boundary					294	239	Self
45011	U.S 209 - PA Hwy. 739 to North Bdry.	8/21/2004	5206	0.6739	0.6204	3508	3230	45011
45021	River Rd. -South Bdry. to Smithfield Beach Rd.	8/21/2004	2026	0.5568	0.45249	1128	917	45053
45022	Smithfield Beach Access Rd.-River Rd. to End.	8/21/2004	604	0.5568	0.45249	336	273	45053
45023	River Rd. -Smithfield Rd. to U.S 209	8/21/2004	1711	0.5568	0.45249	953	774	45053
45044	Kuhns Rd. - Peters Valley to Thunder Mtn. Rd.	8/21/2004	360	0.5735	0.50993	206	184	45042
45051	Old Mine Rd. - Poxono/Depew to Millbrook Village	8/21/2004	504	0.5568	0.45249	281	228	45053
45052	Old Mine Rd. - Millbrook Village to Flatbrookville-Stillwater Rd.	8/21/2004	673	0.5568	0.45249	375	305	45053
45061	Old Mine Rd. - Worthington C.G to Poxono/Depew	8/21/2004	690	0.5568	0.45249	384	312	45053
45062	Old Mine Rd. - I-80 to Worthington C.G	8/21/2004	874	0.5568	0.45249	487	395	45053
4512	Old Mine Rd. - Flatbrookville-Stillwater Rd. to Flatbrookville	8/21/2004	346	0.5568	0.45249	193	157	45053
4513	Flatbrookville/Stillwater Rd.-Old Mine Rd. to East Bdry.	8/21/2004	179	0.5568	0.45249	100	81	45053
4514	S.H 615 - Flatbrookville to Mountain Top Rd.	8/21/2004	458	0.4813	0.53585	220	245	45030
4515	Old Mine Rd. - Flatbrookville to Pompey Rd.	8/21/2004	144	0.5735	0.50993	83	73	45042
4517	S.H 615 - Mountain Top Rd. to Pompey Rd.	8/21/2004	467	0.4813	0.53585	225	250	45030
4521	Old Mine Rd. - Pompey Rd. to Peter's Valley	8/21/2004	55	0.5735	0.50993	32	28	45042
4522	Old Mine Rd.- Peter's Valley to Dingmans Ferry Road	8/21/2004	24	0.5068	0.41193	12	10	45041
4525	Old Mine Rd. - Dingmans Ferry Rd. to Jager Rd.	8/21/2004	246	0.5068	0.41193	125	101	45041
4529	Old Mine Rd. - Jager Rd. to U.S 206	8/21/2004	240	0.5068	0.41193	122	99	45041
4537	U.S 209 - South Bdry. to PEEC Road	8/21/2004	6544	0.6470	0.6010	4234	3933	45013

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.

DELAWARE WATER GAP NRA

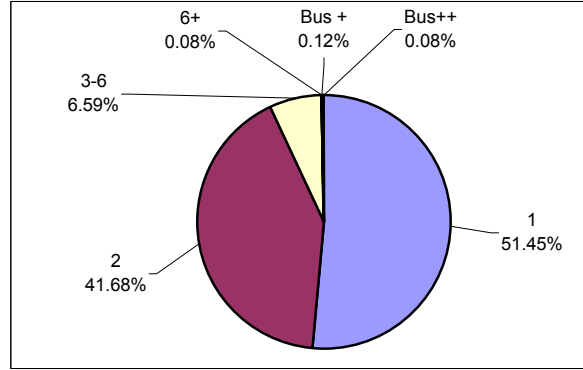
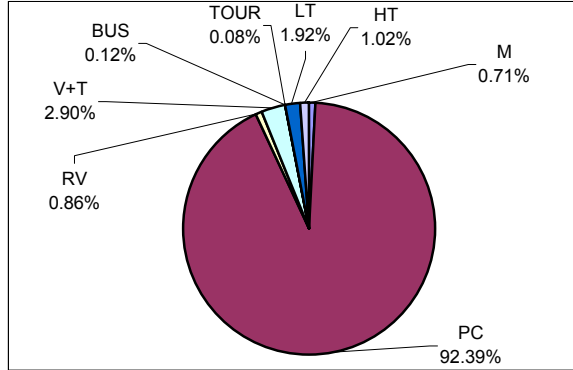
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

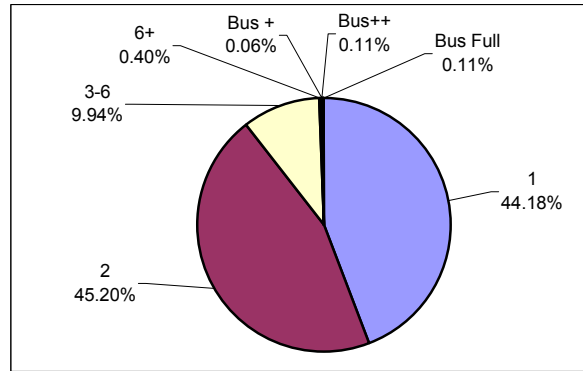
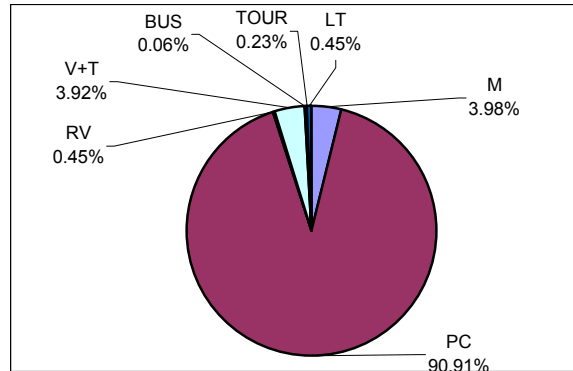
Location: STATION 45011

Location: STATION 45011



Location: STATION 45021

Location: STATION 45021



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

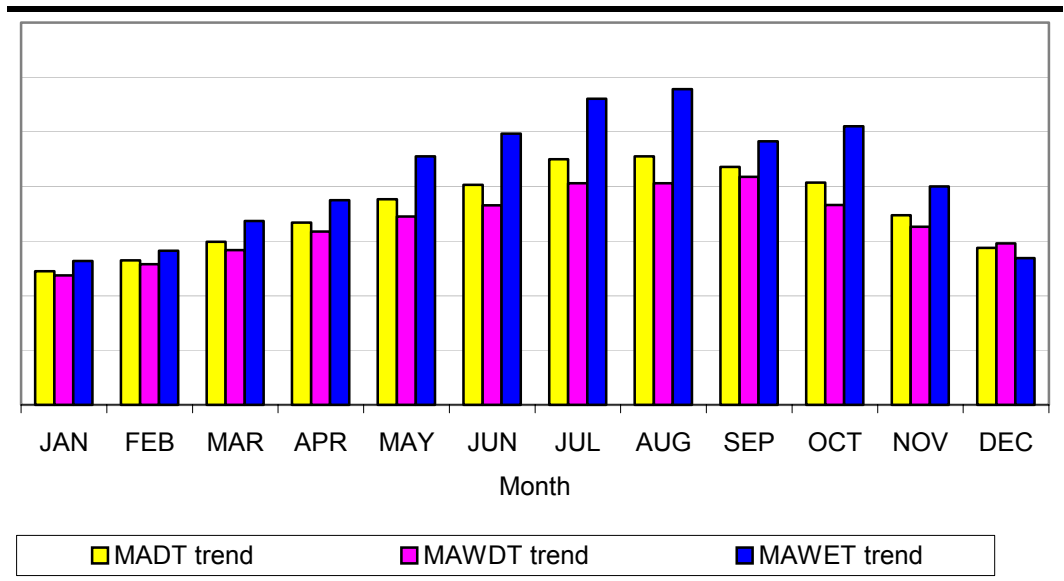
Note: Vehicle Classifications and Vehicle Occupancy values represented by 0% (No Occurrence) are not shown on the charts.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45011 U.S 209 - PA Hwy. 739 to North Bdry.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2000	1.3603	1.4776
2	2000	1.2711	1.3808
3	2000	1.0648	1.1567
4	2000	0.9572	1.0397
5	2000	0.7880	0.8560
6	2000	0.7222	0.7845
7	2000	0.6403	0.6956
8	2000	0.6204	0.6739
9	2000	0.7431	0.8072
10	2000	0.7031	0.7637
11	2000	0.8969	0.9743
12	2000	1.3360	1.4512

See Section 2.1.5

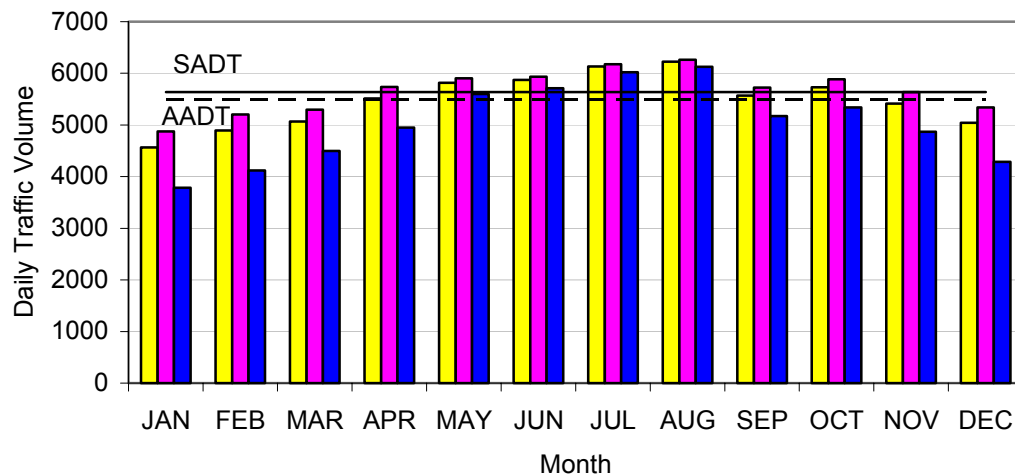


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45012 PA HIGHWAY 739 EAST OF U.S 209

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	2004	4564	4876	3785	1.4494	1.4896
2	2004	4892	5201	4118	1.3322	1.3691
3	2004	5067	5296	4495	1.2205	1.2543
4	2004	5512	5738	4949	1.1085	1.1392
5	2004	5818	5906	5597	0.9802	1.0073
6	2004	5873	5937	5714	0.9601	0.9867
7	2004	6130	6174	6019	0.9115	0.9367
8	2003	6226	6265	6128	0.8953	0.9200
9	2003	5566	5723	5175	1.0601	1.0895
10	2003	5729	5885	5339	1.0276	1.0560
11	2003	5417	5636	4870	1.1265	1.1577
12	2003	5040	5342	4286	1.2800	1.3154
Annual Average Daily Traffic (AADT)				5486		
Annual Average Weekday Traffic (AAWDT)				5665		
Annual Average Weekend Traffic (AAWET)				5040		
Seasonal Average Daily Traffic (SADT)				5638		

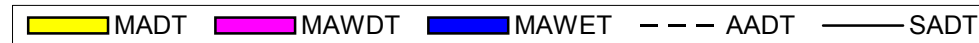
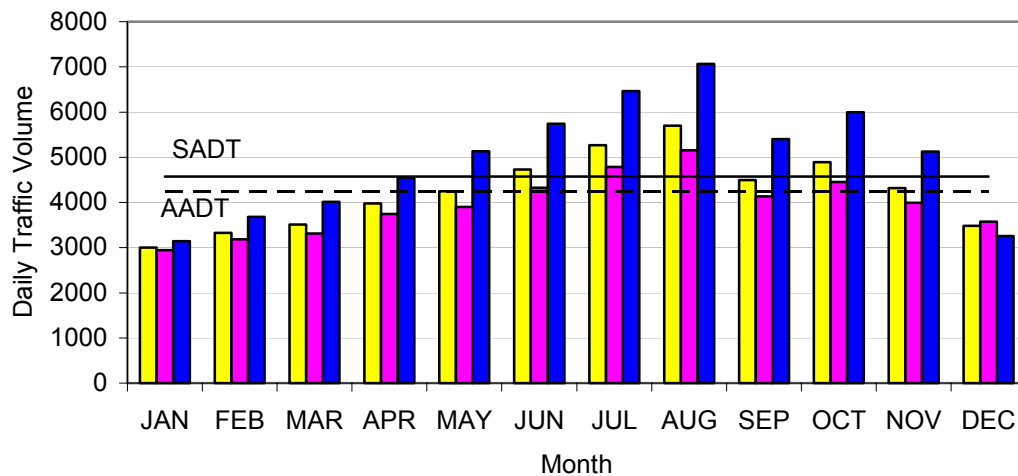


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45013 U.S 209 - PEEC Road to PA Hwy. 739

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	2004	3000	2942	3146	1.3498	1.4533
2	2004	3327	3185	3682	1.1533	1.2417
3	2004	3514	3313	4016	1.0574	1.1384
4	2004	3976	3746	4552	0.9329	1.0044
5	2004	4251	3900	5130	0.8278	0.8912
6	2004	4731	4327	5743	0.7394	0.7961
7	2004	5268	4789	6466	0.6568	0.7071
8	2003	5702	5156	7066	0.6010	0.6470
9	2003	4494	4131	5401	0.7863	0.8465
10	2003	4894	4451	5999	0.7079	0.7621
11	2003	4316	3991	5128	0.8281	0.8916
12	2003	3486	3576	3260	1.3026	1.4025
Annual Average Daily Traffic (AADT)				4247		
Annual Average Weekday Traffic (AAWDT)				3959		
Annual Average Weekend Traffic (AAWET)				4966		
Seasonal Average Daily Traffic (SADT)				4572		

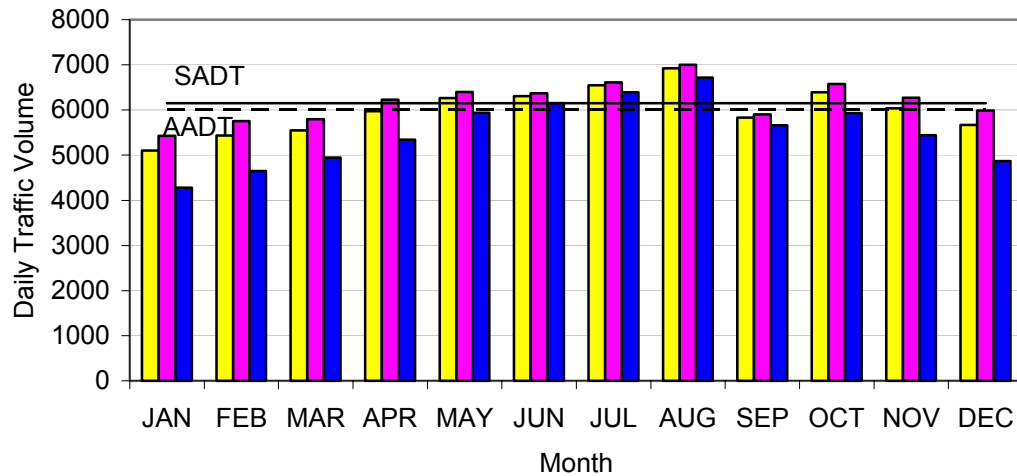


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45014 PA HIGHWAY 739 WEST OF U.S. 209

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	2004	5099	5427	4280	1.4026	1.4369
2	2004	5438	5753	4650	1.2909	1.3226
3	2004	5551	5793	4946	1.2137	1.2434
4	2004	5974	6225	5346	1.1229	1.1504
5	2004	6267	6399	5935	1.0114	1.0362
6	2004	6309	6372	6153	0.9756	0.9995
7	2004	6549	6612	6392	0.9391	0.9621
8	2003	6920	7003	6715	0.8940	0.9159
9	2003	5832	5901	5662	1.0602	1.0862
10	2003	6391	6574	5934	1.0116	1.0364
11	2003	6035	6272	5442	1.1031	1.1301
12	2003	5670	5990	4868	1.2331	1.2634
Annual Average Daily Traffic (AADT)				6003		
Annual Average Weekday Traffic (AAWDT)				6193		
Annual Average Weekend Traffic (AAWET)				5527		
Seasonal Average Daily Traffic (SADT)				6150		

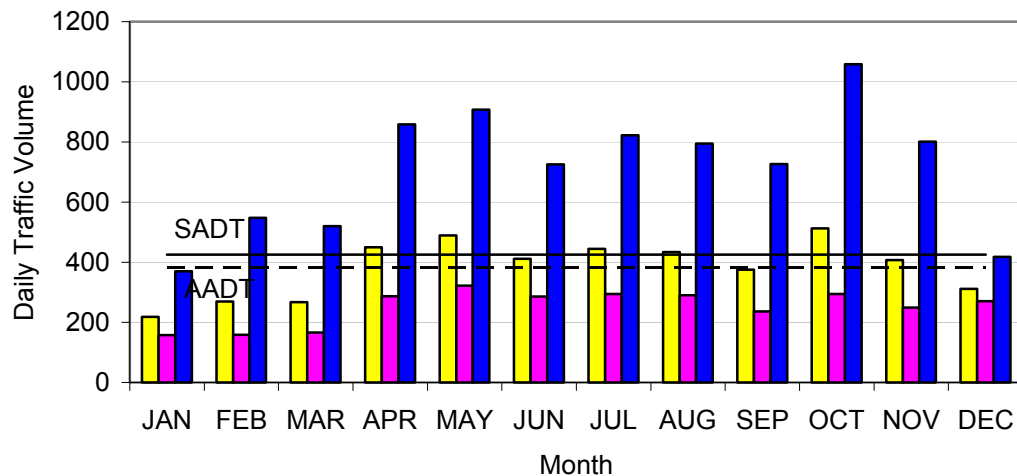


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45030 S.H 615 - Pompey Rd. to N.J Ranger Station

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	2004	218	157	370	1.0342	1.1514
2	2004	269	158	548	0.6983	0.7774
3	2004	267	166	520	0.7359	0.8192
4	2004	450	287	858	0.4460	0.4965
5	2004	489	322	907	0.4219	0.4697
6	2004	412	286	726	0.5271	0.5868
7	2004	445	295	822	0.4655	0.5182
8	2004	434	290	795	0.4813	0.5358
9	2003	376	236	727	0.5264	0.5860
10	2003	513	295	1058	0.3617	0.4026
11	2003	407	249	801	0.4777	0.5318
12	2003	312	270	418	0.9155	1.0191
Annual Average Daily Traffic (AADT)				383		
Annual Average Weekday Traffic (AAWDT)				251		
Annual Average Weekend Traffic (AAWET)				713		
Seasonal Average Daily Traffic (SADT)				426		

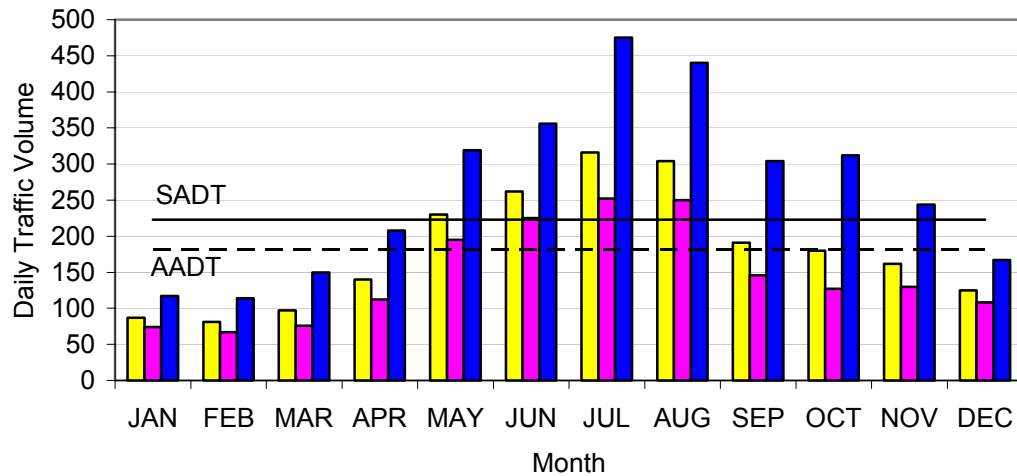


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45041 Dingmans-Peters Valley Rd - Peters Valley to Old Mine Rd.

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	87	74	117	1.5491	1.9060
2	2003	81	67	114	1.5899	1.9561
3	2003	97	76	150	1.2083	1.4867
4	2003	140	112	208	0.8714	1.0721
5	2003	230	195	319	0.5682	0.6991
6	2003	262	225	356	0.5091	0.6264
7	2003	316	252	475	0.3816	0.4695
8	2003	304	250	440	0.4119	0.5068
9	2003	191	146	304	0.5962	0.7336
10	2003	180	127	312	0.5809	0.7147
11	2002	162	130	244	0.7428	0.9139
12	2002	125	108	167	1.0853	1.3353
Annual Average Daily Traffic (AADT)				181		
Annual Average Weekday Traffic (AAWDT)				147		
Annual Average Weekend Traffic (AAWET)				267		
Seasonal Average Daily Traffic (SADT)				223		

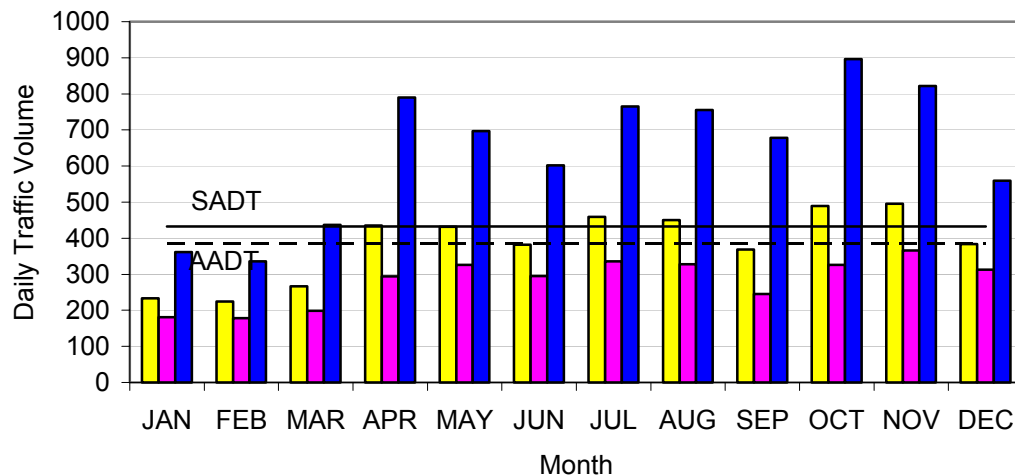


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45042 S.H 615 - Peter's Valley to Park Boundary

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	233	181	362	1.0635	1.1961
2	2003	224	178	336	1.1458	1.2887
3	2003	267	199	437	0.8810	0.9908
4	2003	435	294	790	0.4873	0.5481
5	2003	432	326	697	0.5524	0.6212
6	2003	382	295	602	0.6395	0.7193
7	2003	459	336	765	0.5033	0.5660
8	2003	450	328	755	0.5099	0.5735
9	2003	369	246	678	0.5678	0.6386
10	2003	489	326	896	0.4297	0.4833
11	2002	496	366	822	0.4684	0.5268
12	2002	384	313	559	0.6887	0.7746
Annual Average Daily Traffic (AADT)				385		
Annual Average Weekday Traffic (AAWDT)				282		
Annual Average Weekend Traffic (AAWET)				642		
Seasonal Average Daily Traffic (SADT)				433		

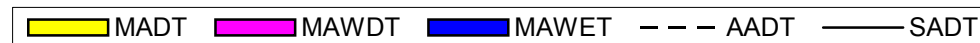
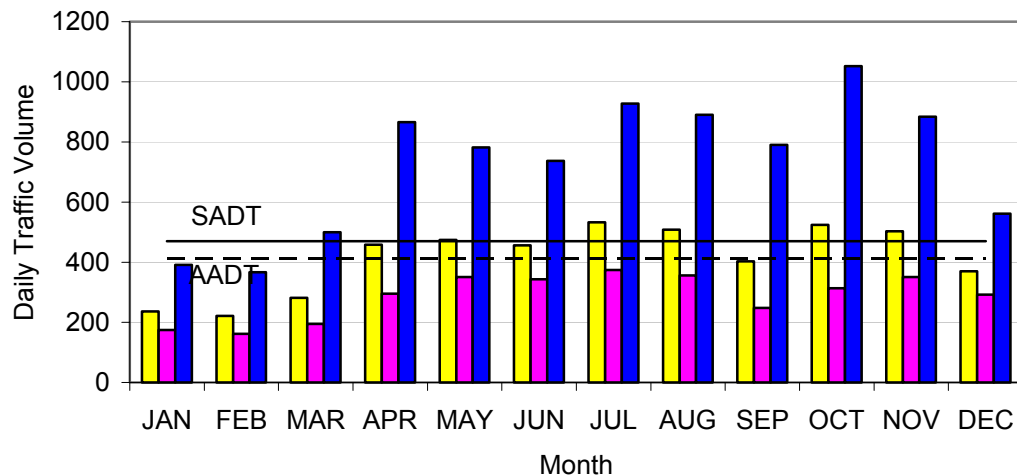


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45043 S.H 615 - N.J Ranger Station to Peter's Valley

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	236	174	391	1.0595	1.2020
2	2003	221	162	367	1.1287	1.2807
3	2003	282	195	500	0.8285	0.9400
4	2003	459	296	866	0.4783	0.5427
5	2003	474	351	782	0.5297	0.6010
6	2003	456	344	737	0.5621	0.6377
7	2003	533	375	928	0.4464	0.5065
8	2003	509	356	890	0.4654	0.5281
9	2003	403	248	790	0.5244	0.5949
10	2003	525	314	1052	0.3938	0.4468
11	2002	503	351	884	0.4686	0.5317
12	2002	370	293	562	0.7371	0.8363
Annual Average Daily Traffic (AADT)				414		
Annual Average Weekday Traffic (AAWDT)				288		
Annual Average Weekend Traffic (AAWET)				729		
Seasonal Average Daily Traffic (SADT)				470		

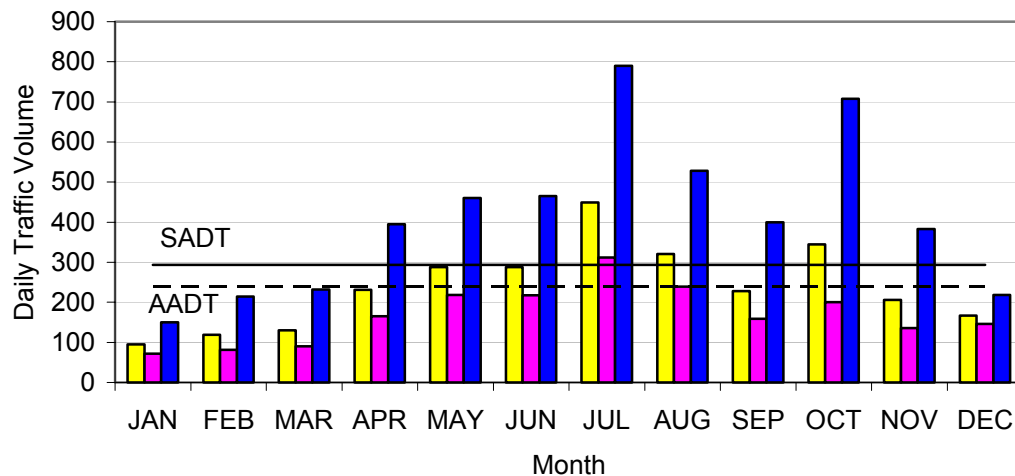


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

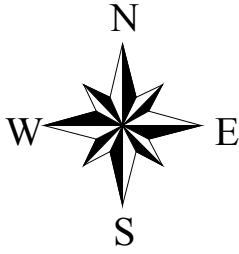
DELAWARE WATER GAP NATIONAL RECREATION AREA

Station: 45053 Millbrook-Blairston Rd.- Millbrook Village to Park Boundary

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	2004	95	72	150	1.5928	1.9600
2	2004	119	81	215	1.1112	1.3674
3	2004	130	90	232	1.0298	1.2672
4	2004	231	165	395	0.6049	0.7443
5	2003	288	219	460	0.5194	0.6391
6	2003	288	218	465	0.5138	0.6323
7	2003	449	312	790	0.3024	0.3722
8	2003	321	239	528	0.4525	0.5568
9	2003	228	159	400	0.5973	0.7350
10	2003	345	200	708	0.3375	0.4153
11	2003	206	136	383	0.6238	0.7676
12	2003	167	146	219	1.0909	1.3425
Annual Average Daily Traffic (AADT)				239		
Annual Average Weekday Traffic (AAWDT)				170		
Annual Average Weekend Traffic (AAWET)				412		
Seasonal Average Daily Traffic (SADT)				294		

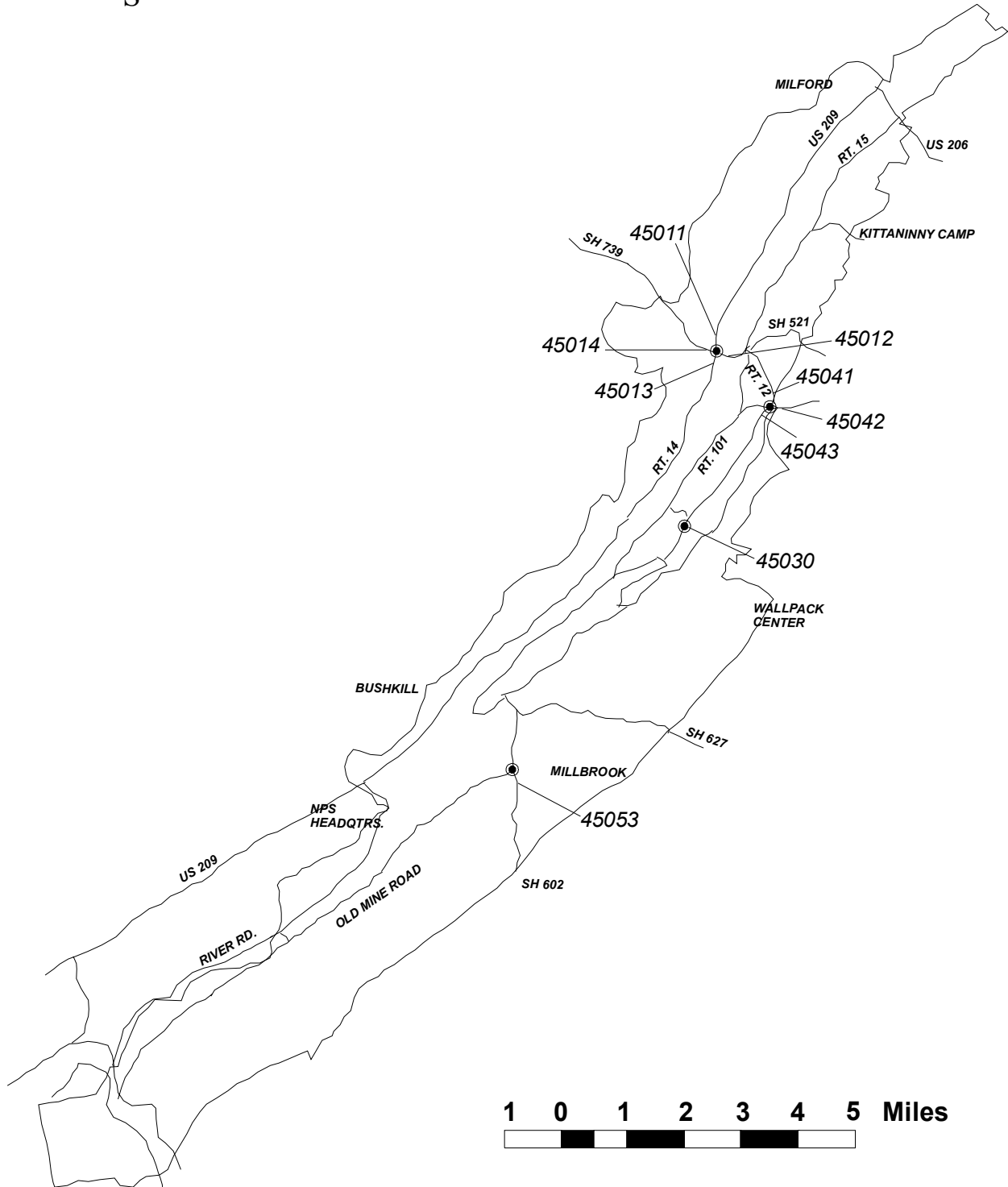


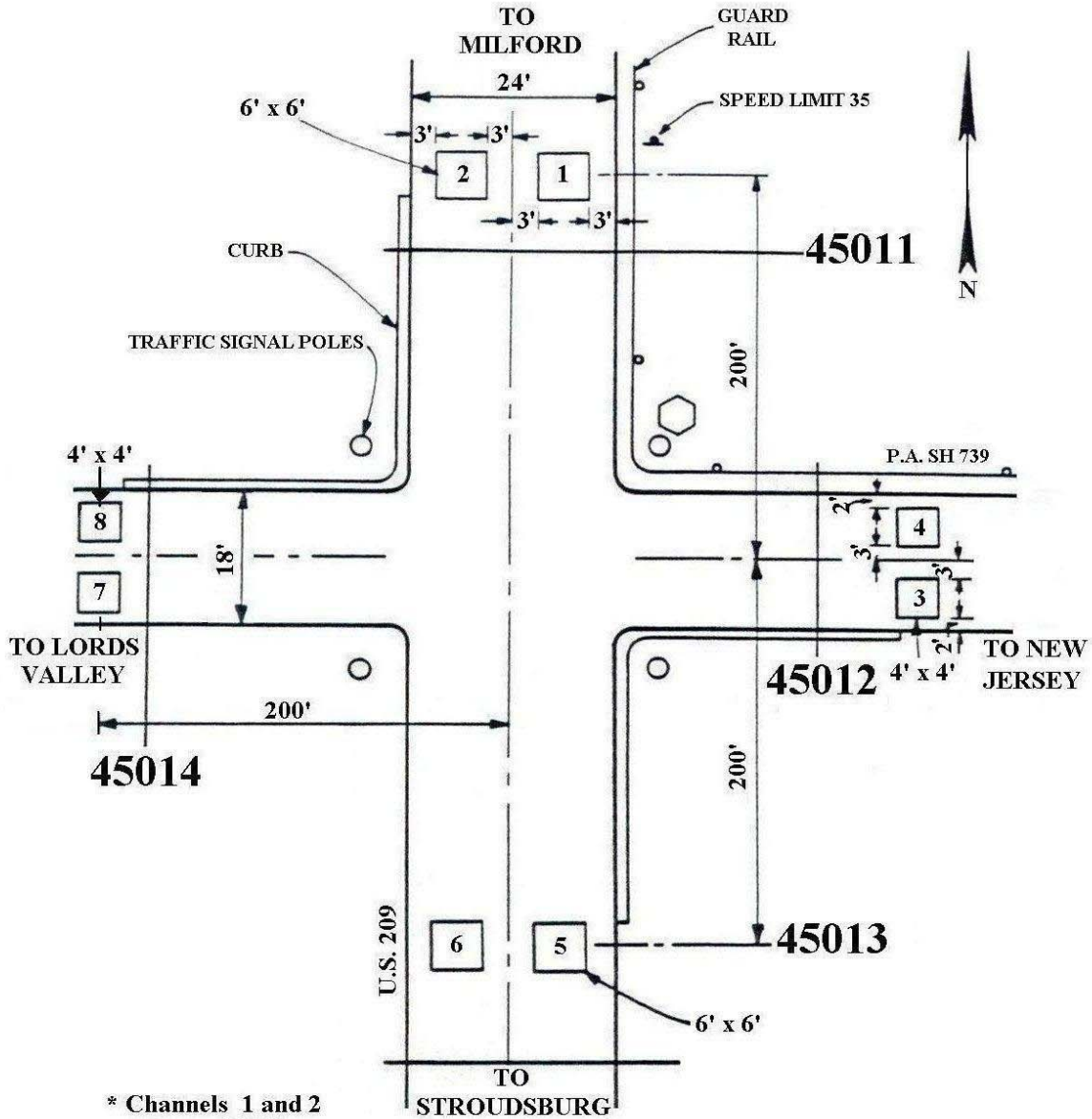
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.



Delaware Water Gap National Recreation Area

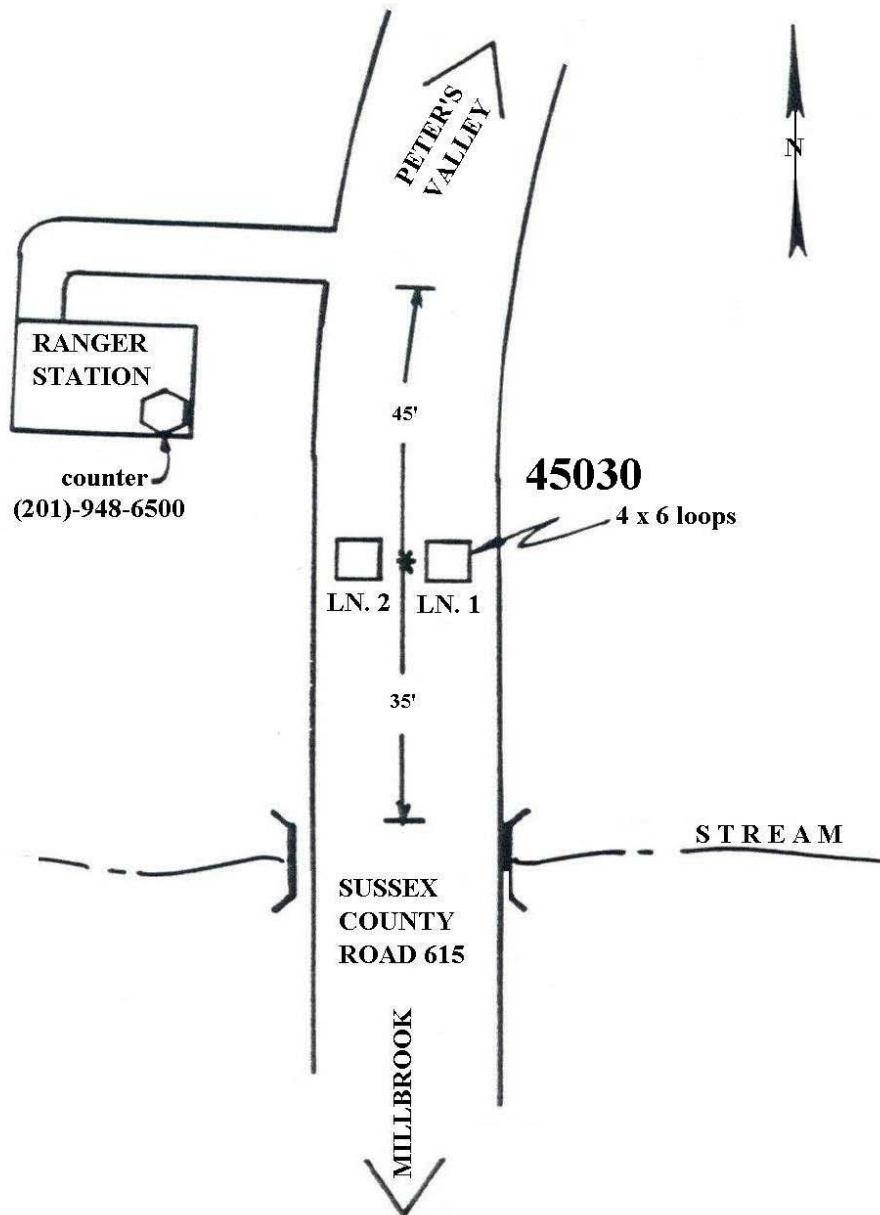
Pennsylvania
U.S. Department of Interior
NATIONAL PARK SERVICE



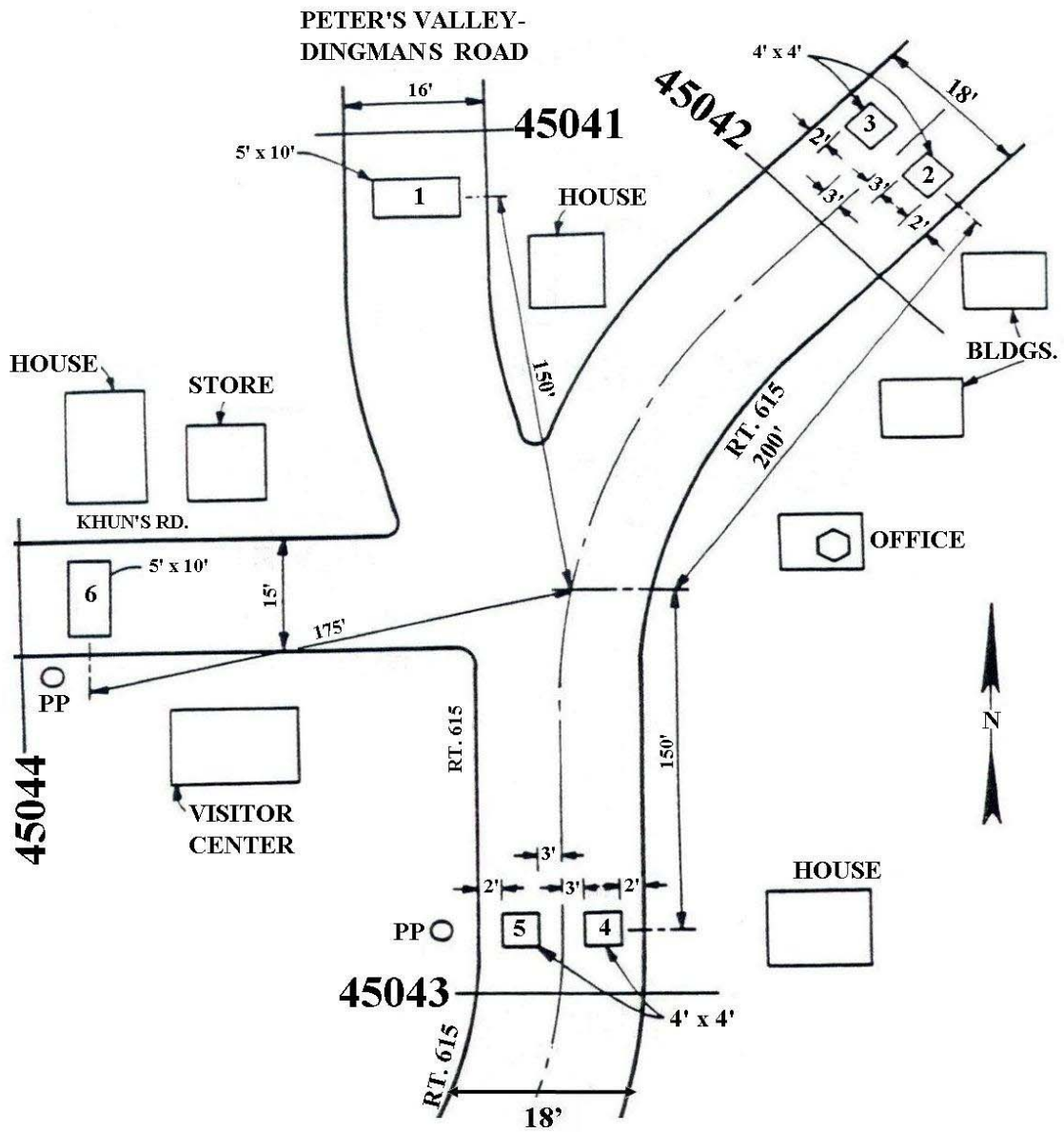


* Channels 1 and 2
prior to 9/6/88

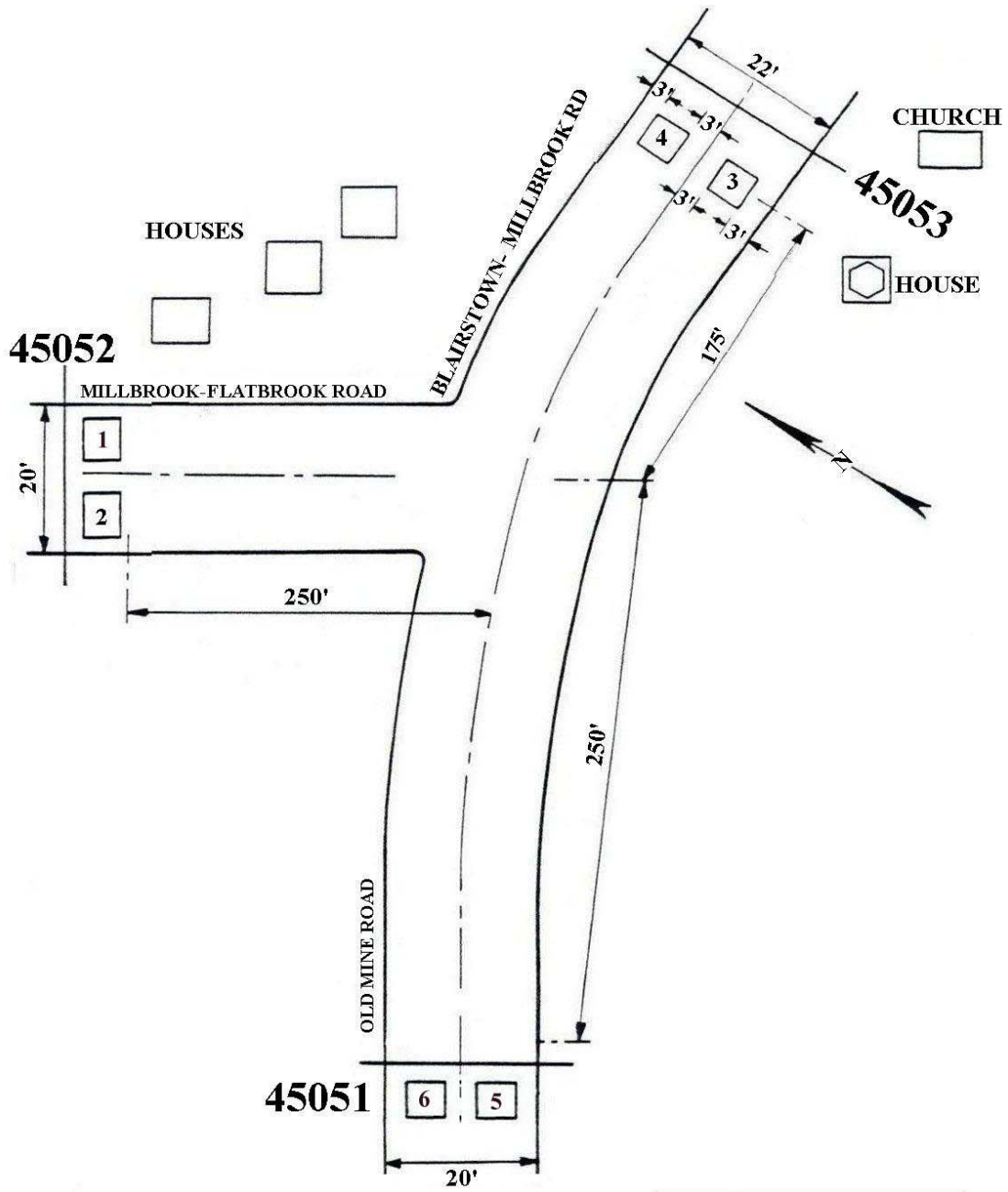
Delaware Water Gap N.R.A.
Station 4501
Dingman's Ferry



Delaware Water Gap N.R.A.
Station 4503
New Jersey Ranger Station



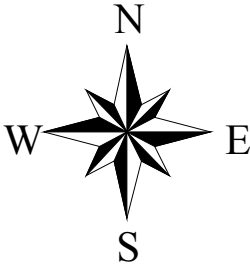
Delaware Water Gap N.R.A.
Station 4504
Peters Valley



Delaware Water Gap N.R.A.
Station 4505
Millbrook Village

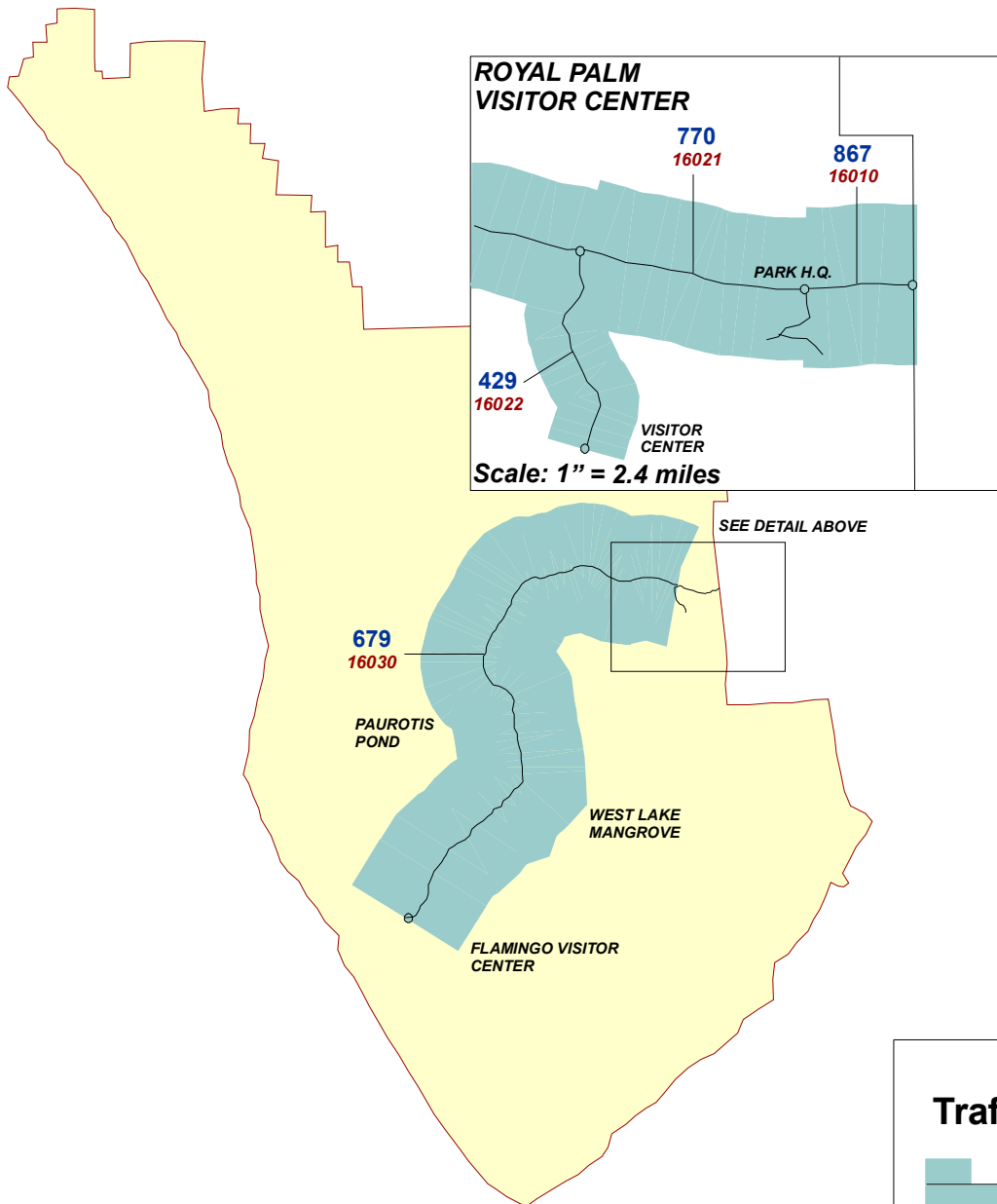
Everglades National Park Traffic Package



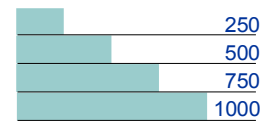


Everglades National Park Florida

U.S. Department of Interior
NATIONAL PARK SERVICE



2004 Traffic Counts



AADT Scale

Reference Station Number in *ITALICS*



EVERGLADES NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta.		AADT				VMT(1000's)			
		ID.	Length	1988	1991	1994	2004	1988	1991	1994	2004
10	Main Park Rd. - East Park Boundary to Main Visitor Center	16010	0.48	778	1504	1579	867	136	264	277	152
10	Main Park Rd. - Main Visitor Center to Royal Palm Access Rd.	16021	1.72	778	1281	1091	770	488	804	685	483
10	Main Park Rd. - Royal Palm Access Rd. to Flamingo	16030	36.43	778	1141	849	679	10345	15172	11289	9029
12	Royal Palm Access Rd. - Main Park Rd. to Royal Palm	16022	1.96	778	871	756	429	557	623	541	307
Note: AADT -- Annual Average Daily Traffic								11526	16863	12792	9971

VMT-- Vehicle Miles of Travel

EVERGLADES NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
16010	Main Park Rd. - East Park Boundary to Main Visitor Center	12/18/04	1080	0.8938	0.8025	965	867	16010
16021	Main Park Rd. - Main Visitor Center to Royal Palm Access Rd.	12/18/04	988	0.8880	0.7794	877	770	16021
16022	Royal Palm Access Rd. - Main Park Rd. to Royal Palm	12/18/04	511	0.9460	0.8389	483	429	16022
16030	Main Park Rd. - Royal Palm Access Rd. to Flamingo	12/18/04	984	0.8311	0.6903	818	679	16030

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.

EVERGLADES NATIONAL PARK

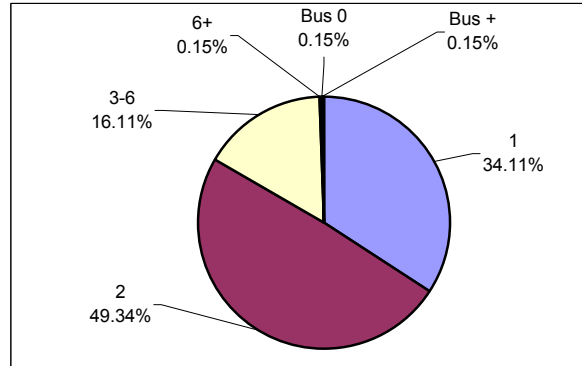
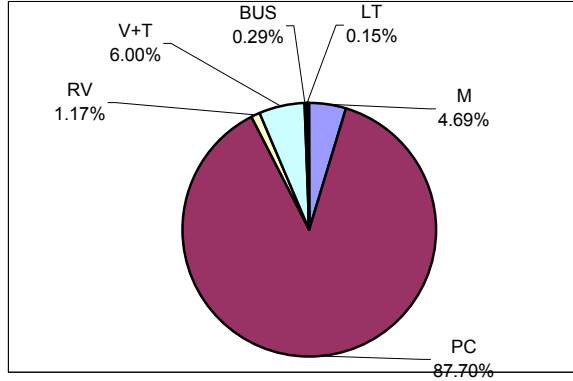
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

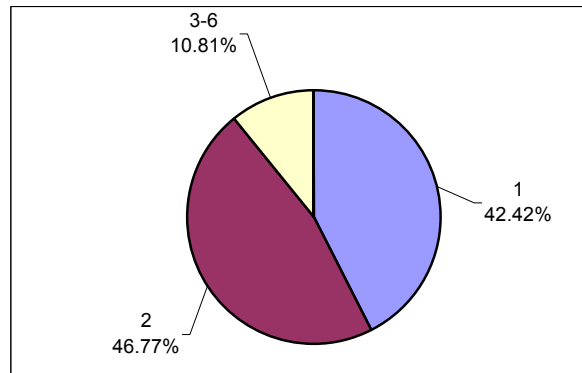
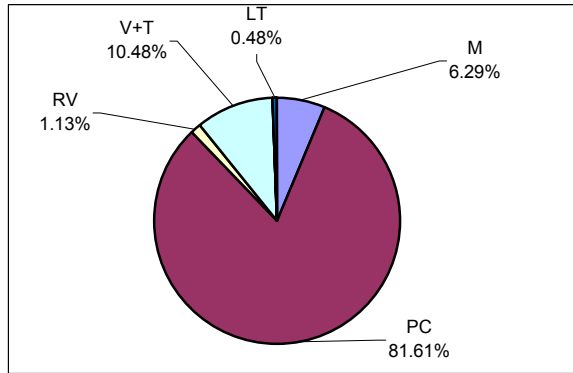
Location: STATION 16010

Location: STATION 16010



Location: STATION 16030

Location: STATION 16030



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

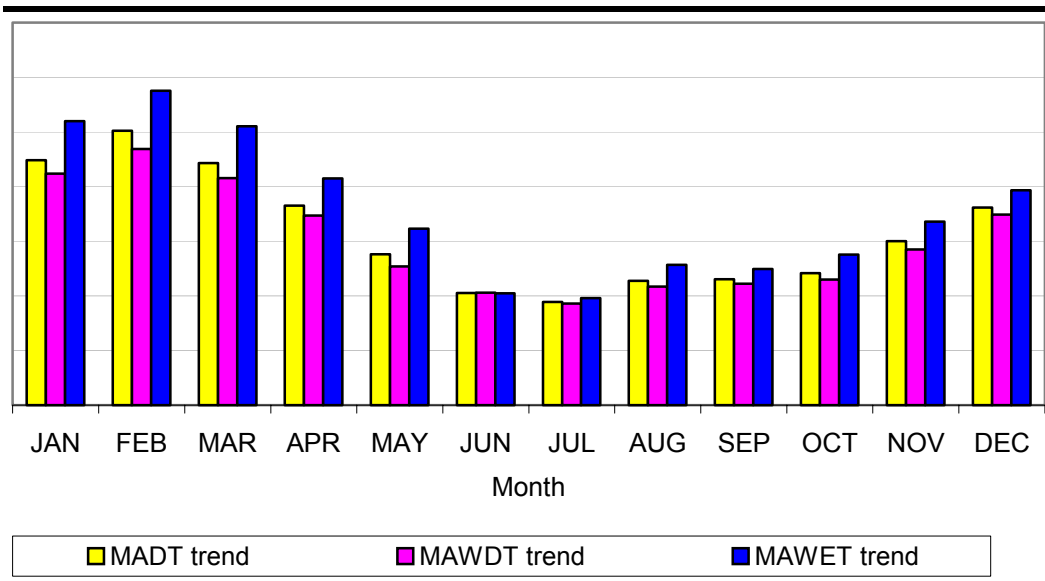
Note: Vehicle Classifications and Vehicle Occupancy values represented by 0% (No Occurrence) are not shown on the charts.

EVERGLADES NATIONAL PARK

Station: 16010 Main Park Rd. - East Park Boundary to Main Visitor Center

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1992	0.6074	0.6765
2	1992	0.5491	0.6116
3	1992	0.6186	0.6890
4	1992	0.7611	0.8477
5	1992	0.9773	1.0885
6	1992	1.5408	1.7161
7	1992	1.6116	1.7949
8	1990	1.2291	1.3689
9	1991	1.2665	1.4106
10	1991	1.1461	1.2765
11	1991	0.9395	1.0464
12	1991	0.8025	0.8938

See Section 2.1.5



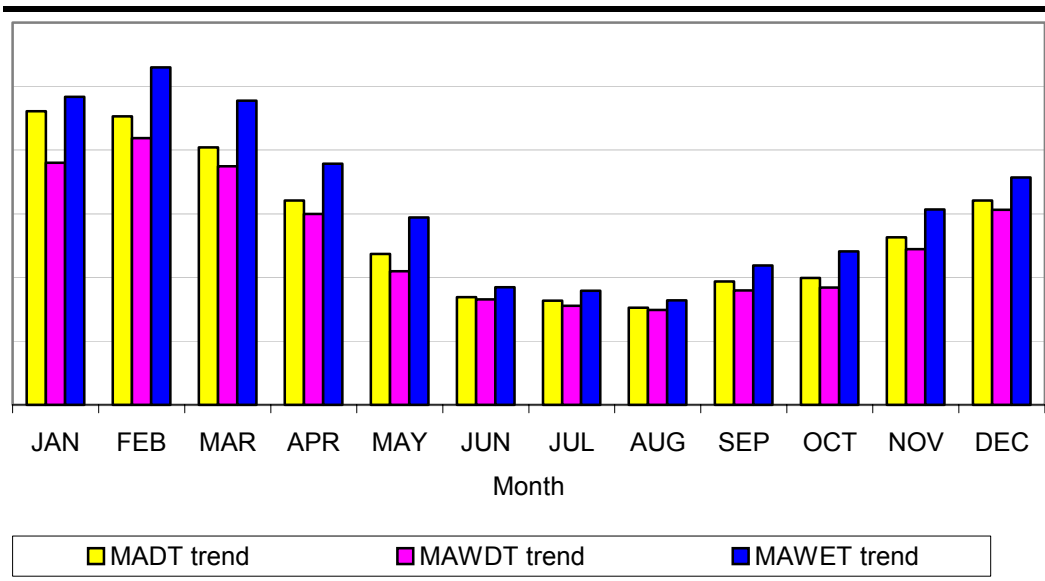
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

EVERGLADES NATIONAL PARK

Station: 16021 Main Park Rd. - Main Visitor Center to Royal Palm Access Rd.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1992	0.5754	0.6555
2	1992	0.5254	0.5986
3	1992	0.5826	0.6637
4	1992	0.7349	0.8373
5	1992	0.9464	1.0782
6	1992	1.5057	1.7154
7	1990	1.5545	1.7709
8	1989	1.6966	1.9329
9	1991	1.2705	1.4475
10	1991	1.1555	1.3164
11	1991	0.9075	1.0339
12	1991	0.7794	0.8880

See Section 2.1.5



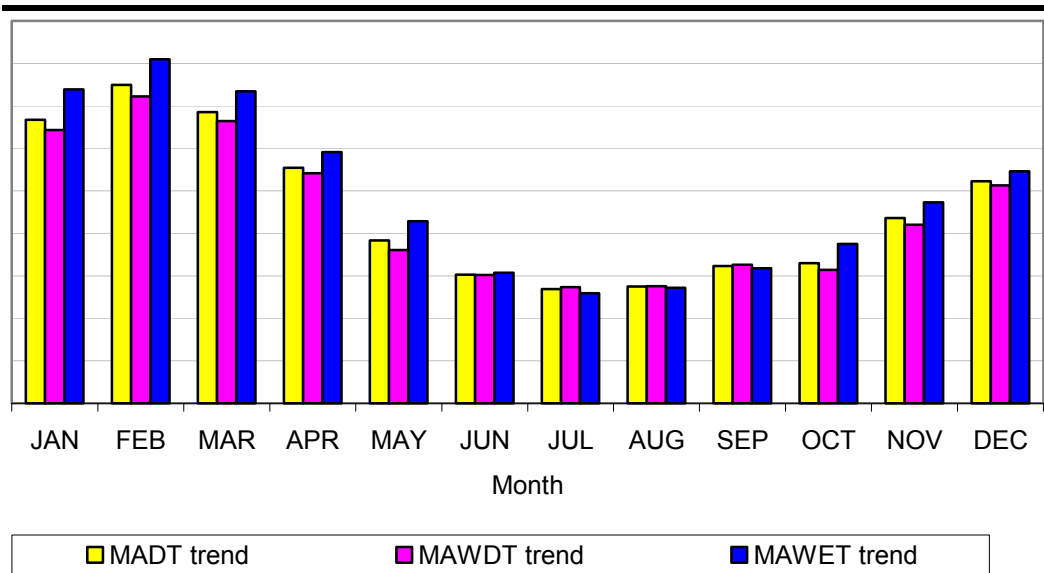
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

EVERGLADES NATIONAL PARK

Station: 16022 Royal Palm Access Rd. - Main Park Rd. to Royal Palm

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1992	0.6198	0.6989
2	1992	0.5658	0.6380
3	1992	0.6236	0.7032
4	1992	0.7750	0.8739
5	1992	1.0689	1.2054
6	1992	1.4896	1.6797
7	1990	1.7685	1.9942
8	1989	1.6840	1.8989
9	1991	1.4427	1.6268
10	1991	1.2214	1.3773
11	1991	0.9684	1.0920
12	1991	0.8389	0.9460

See Section 2.1.5



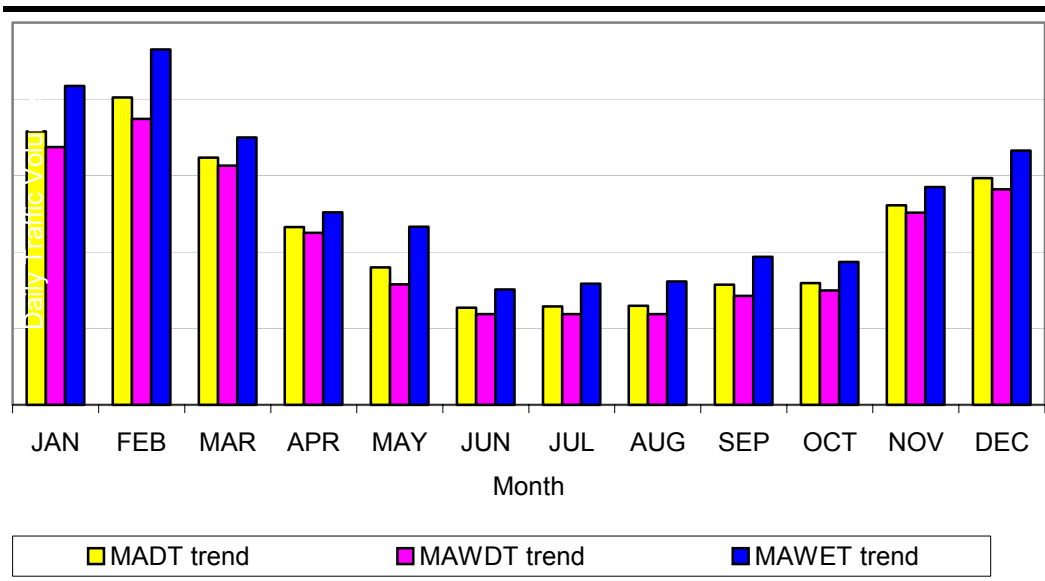
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

EVERGLADES NATIONAL PARK

Station: 16030 Main Park Rd. - Royal Palm Access Rd. to Flamingo

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1992	0.5507	0.6630
2	1992	0.4943	0.5951
3	1992	0.6568	0.7907
4	1992	0.9116	1.0976
5	1992	0.9851	1.1861
6	1992	1.5214	1.8318
7	1991	1.4485	1.7440
8	1990	1.4234	1.7138
9	1991	1.1866	1.4287
10	1990	1.2272	1.4776
11	1991	0.8061	0.9705
12	1991	0.6903	0.8311

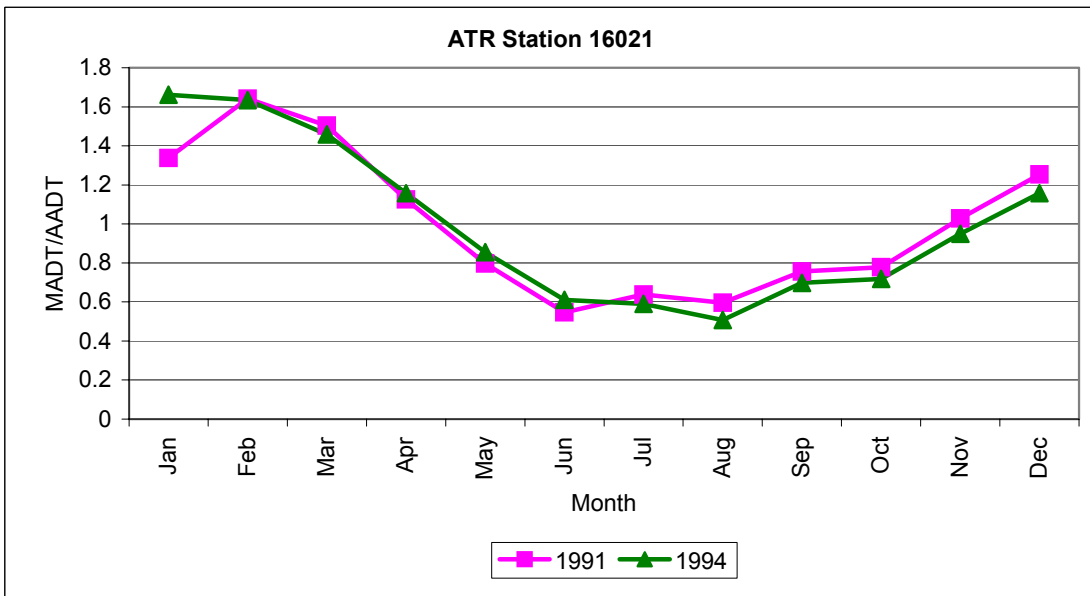
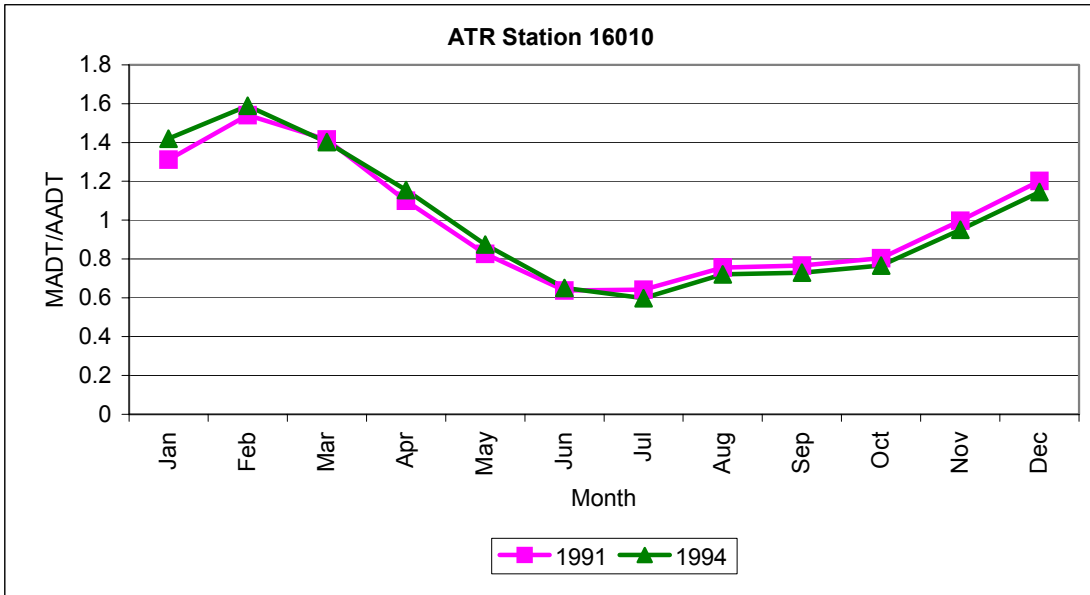
See Section 2.1.5



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.

EVERGLADES NATIONAL PARK

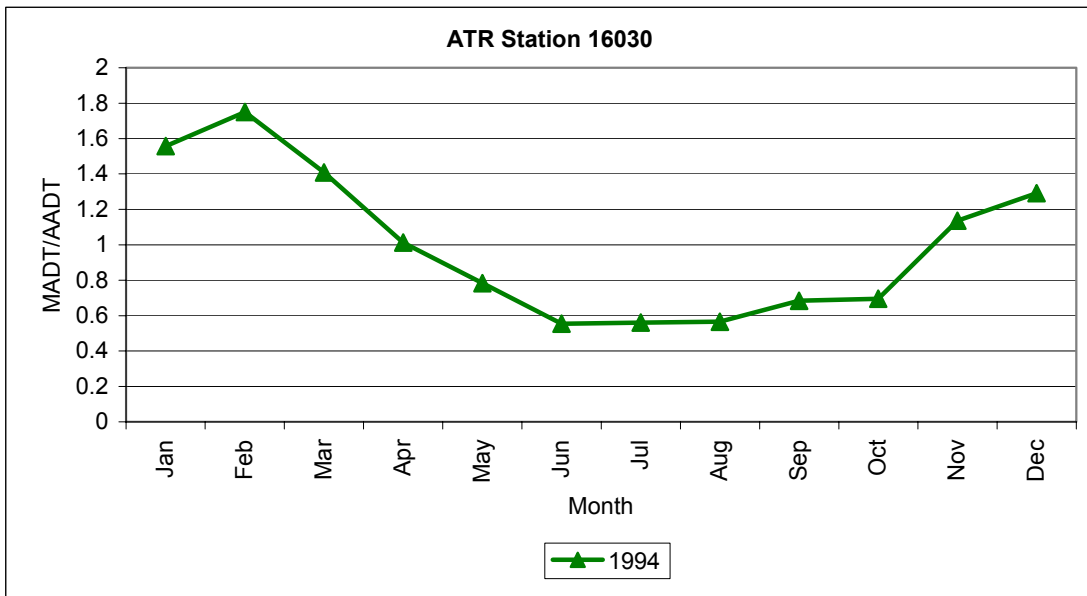
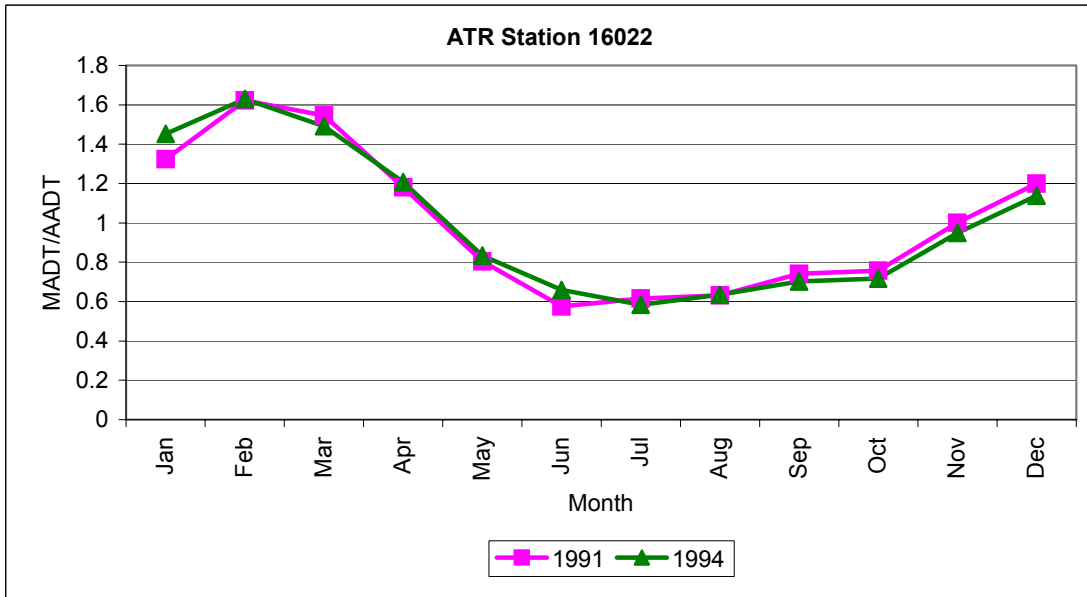
HISTORICAL SEASONAL TRAFFIC TREND SUMMARY



Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

EVERGLADES NATIONAL PARK

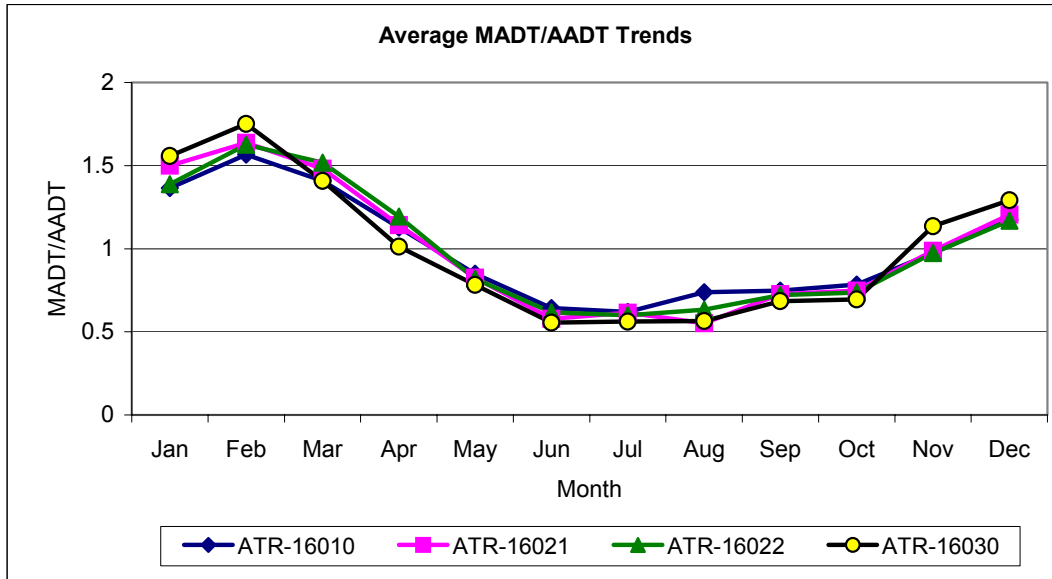
HISTORICAL SEASONAL TRAFFIC TREND SUMMARY



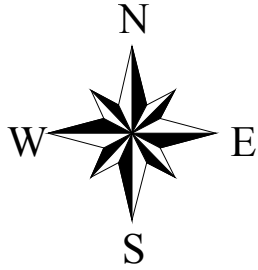
Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

EVERGLADES NATIONAL PARK

HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

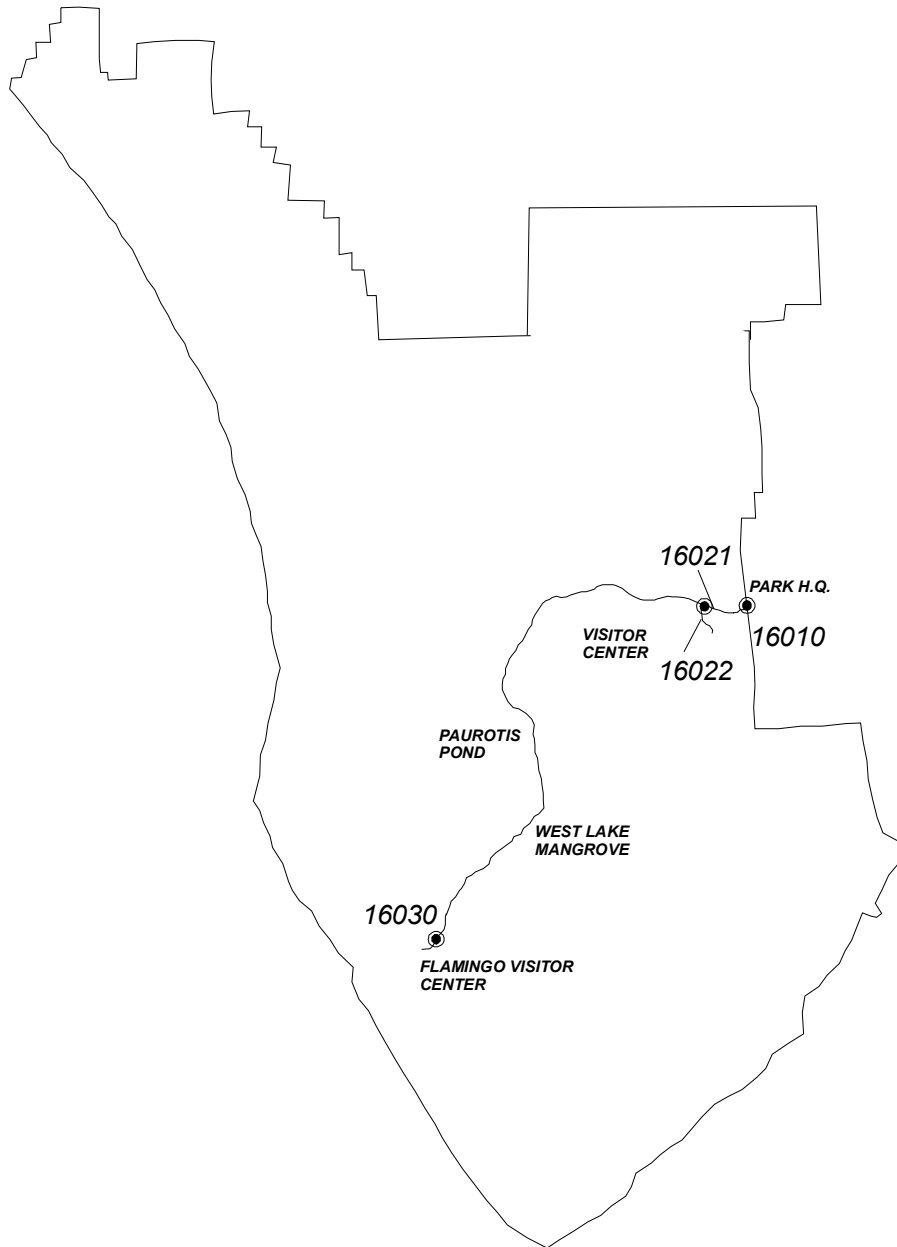


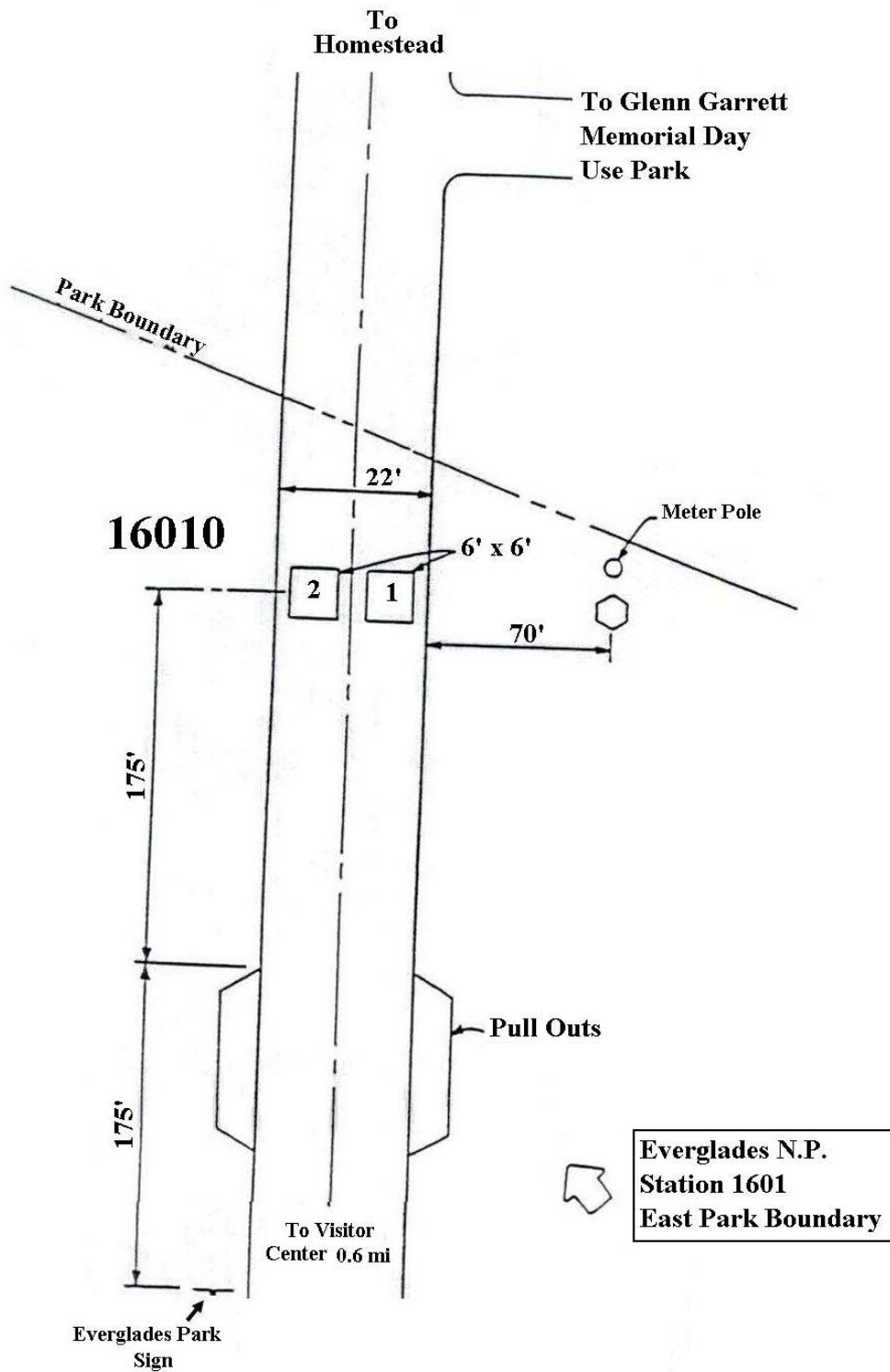
Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

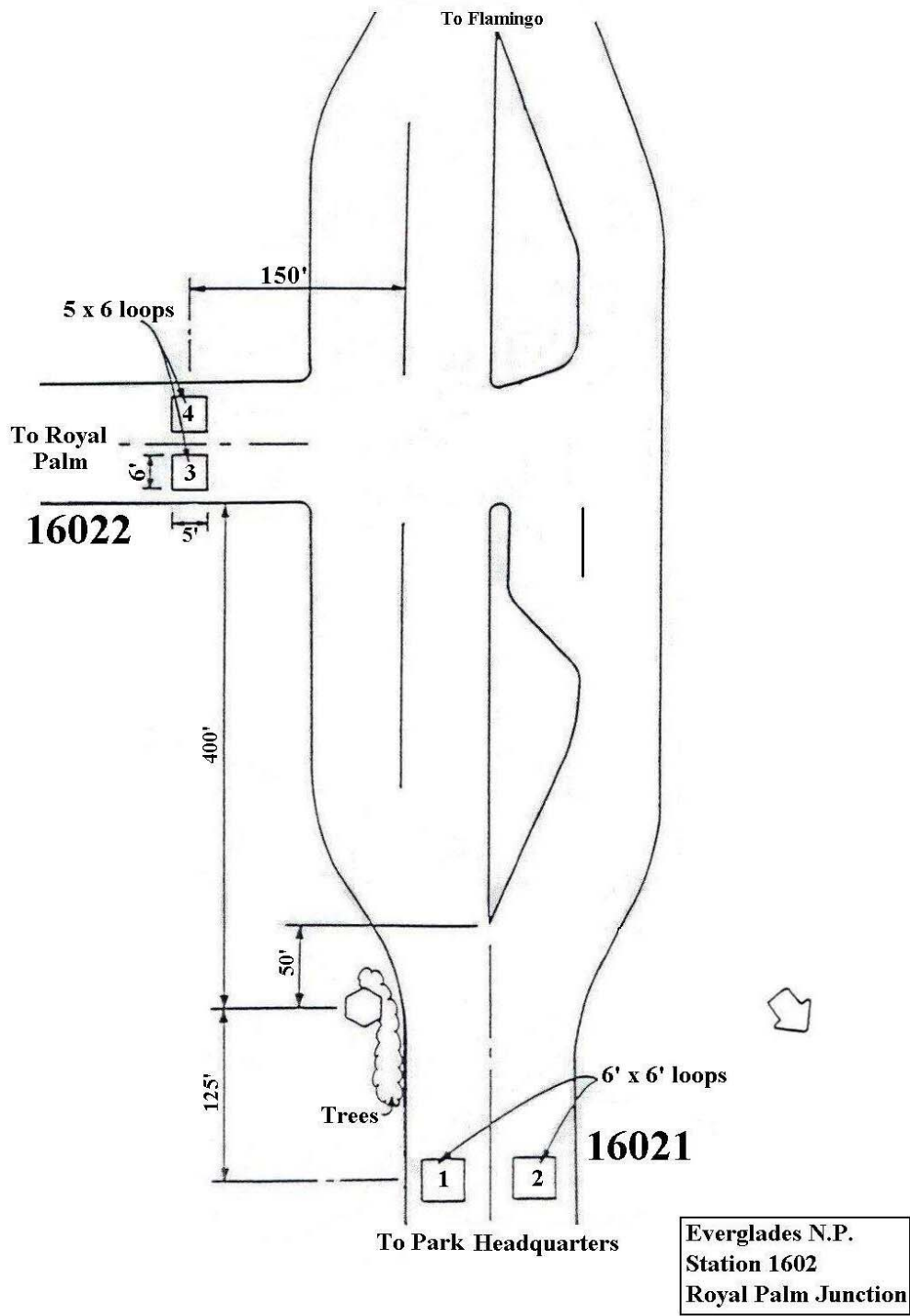


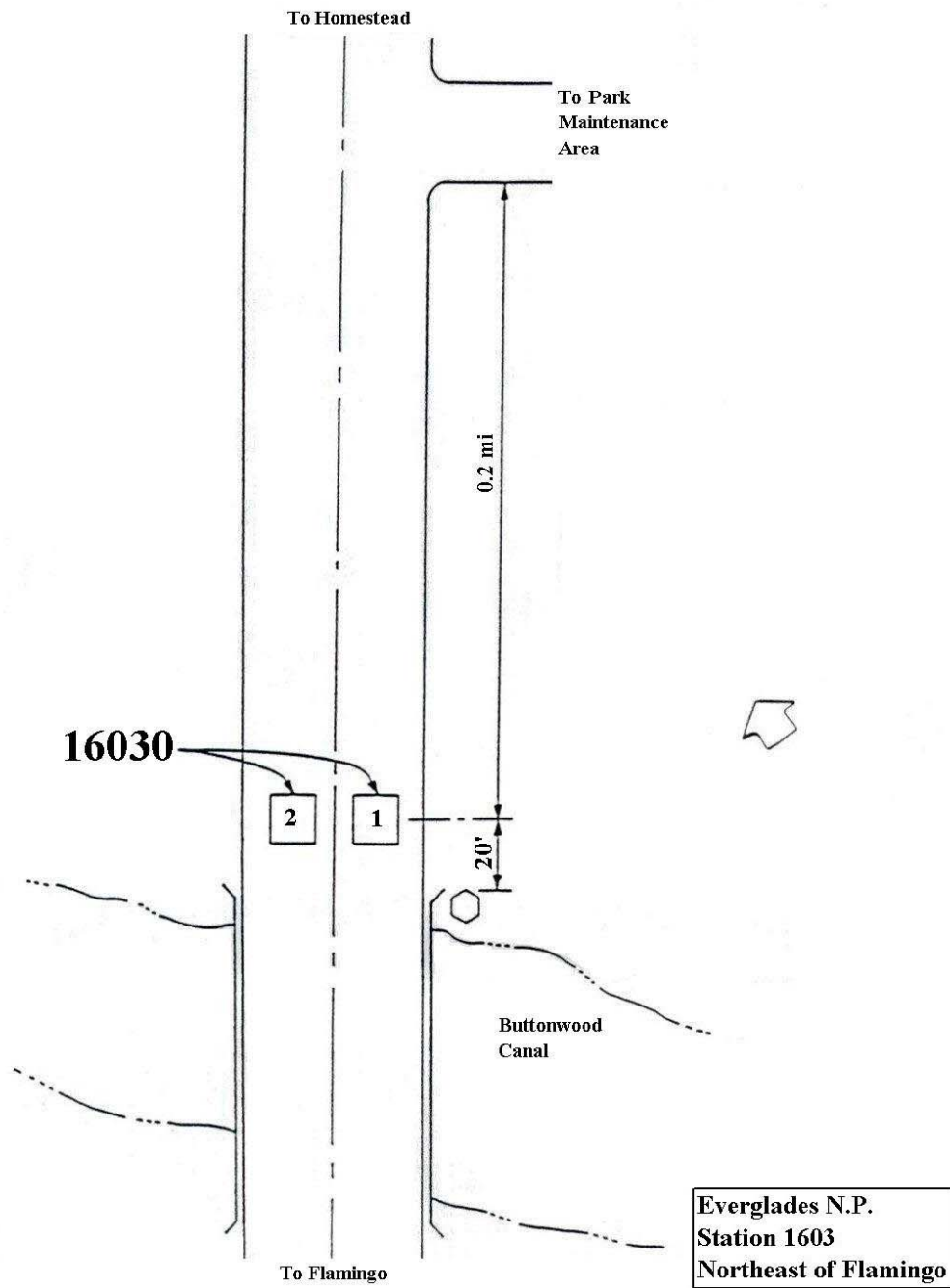
Everglades National Park Florida

U.S. Department of Interior
NATIONAL PARK SERVICE







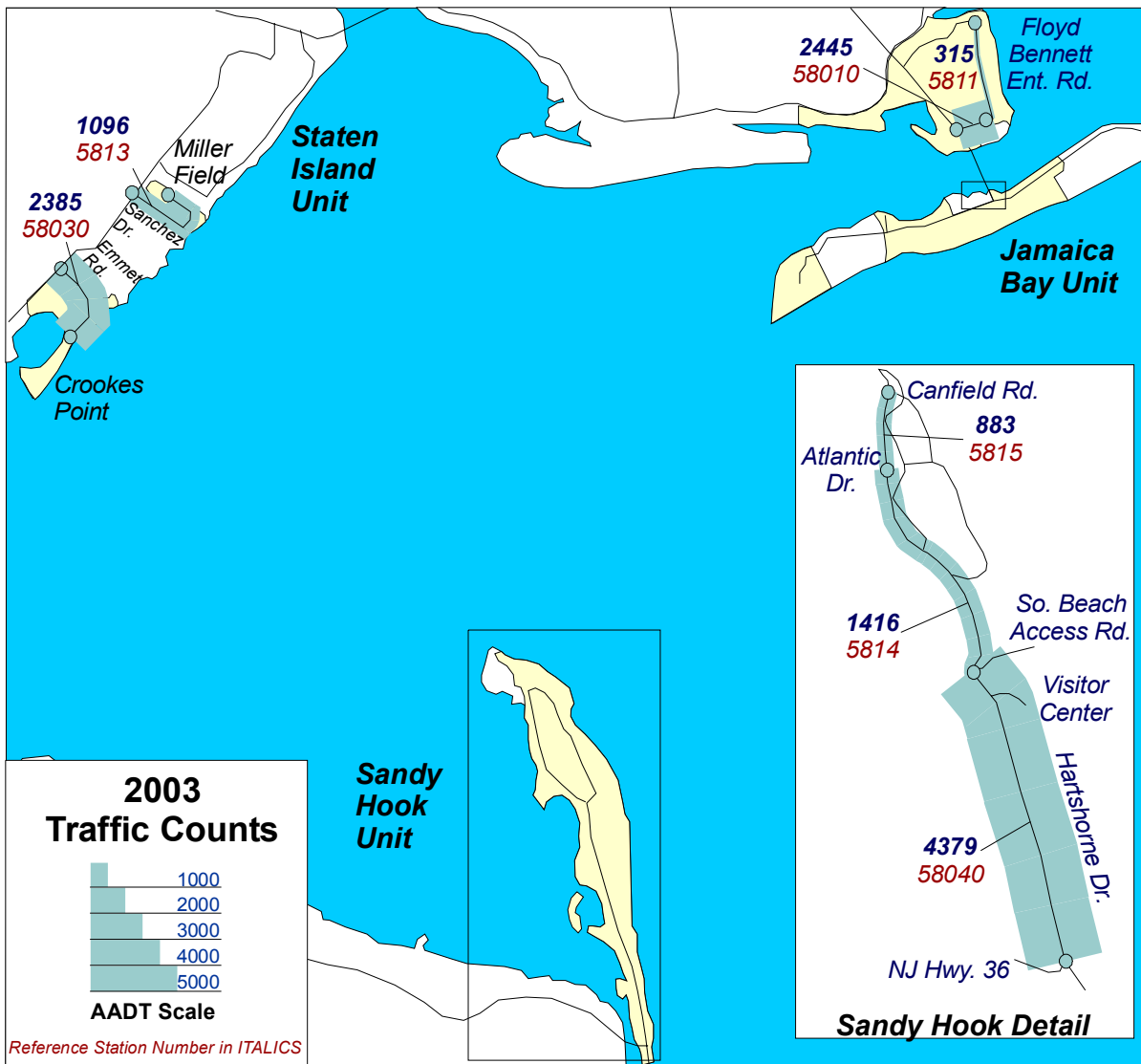
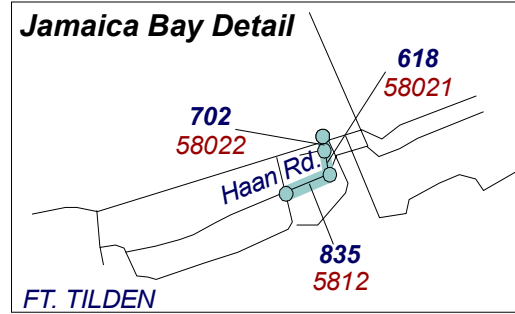
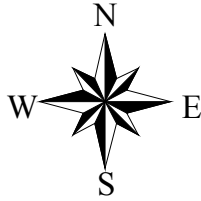


Gateway National Recreation Area Traffic Package



Gateway National Recreation Area

New York & New Jersey
U.S. Department of Interior
NATIONAL PARK SERVICE



GATEWAY NATIONAL RECREATION AREA

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
30	SIU-Emmet Road - Park Bdry. To Great Kills Parking Area	58030	1.78	1706	2553	2671	2385	1108	1659	1735	1550
60	SHU-Hartshorne Dr. - NJ Hwy. 36 to So. Beach Access Rd.	58040	2.82	3311	5542	5338	4379	3408	5704	5494	4507
60	SHU-Hartshorne Dr. - So. Beach Access Rd. to Atlantic Dr.	5814	0.72	599	1830	2852	1416	157	481	750	372
60	SHU-Harshorne Dr. - Atlantic Dr. to Canfield Rd.	5815	1.53	198	663	568	883	111	370	317	493
132	SIU-Sanchez Dr. - Beach Road to Park Boundary	5813	0.72	294	285	342	1096	77	75	90	288
200	JBU-Floyd Bennett Ent. Rd. - Flatbush Ave. to Ranger Rd.	58010	0.74	2026	2692	3009	2445	547	727	813	660
200	JBU-Floyd Bennett Ent. Rd. - Ranger Rd. to Runway C.	5811*	1.14	1001	1606	1721	315	417	668	716	131
212	BPU-Heinzelman Rd. - Rockaway Point Blvd. To Barrett Rd.	58022	0.05	379	490	510	702	7	9	9	13
212	BPU-Heinzelman Rd. - Barrett Rd. to Haan Rd.	58021	0.06	338	373	388	618	7	8	8	14
214	BPU-Haan Rd. - East Quarters Rd. to Hero Rd.	5812	0.16	300	371	790	835	18	22	46	49
VMT SUMMARY								5857	9723	9979	8077

Note: AADT -- Annual Average Daily Traffic

VMT-- Vehicle Miles of Travel

* Volume is based on weekend count. Higher volume is expected during the week as there are many office buildings along this link.

GATEWAY NATIONAL RECREATION AREA

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
58010	JBU-Floyd Bennett Ent. Rd. - Flatbush Ave. to Ranger Rd.					2616	2445	Self
58030	SIU-Emmet Road - Park Bdry. To Great Kills Parking Area					3055	2385	Self
58040	SHU-Hartshorne Dr. - NJ Hwy. 36 to So. Beach Access Rd.					5590	4379	Self
58021	BPU-Heinzelman Rd. - Barrett Rd. to Haan Rd.	9/27/03	729	0.9077	0.8482	662	618	58010
58022	BPU-Heinzelman Rd. - Rockaway Point Blvd. To Barrett Rd.	9/27/03	828	0.9077	0.8482	752	702	58010
5811*	JBU-Floyd Bennett Ent. Rd. - Ranger Rd. to Runway C.	9/27/03	371	0.9077	0.8482	337	315	58010
5812	BPU-Haan Rd. - East Quarters Rd. to Hero Rd.	9/27/03	985	0.9077	0.8482	894	835	58010
5813	SIU-Sanchez Dr. - Beach Road to Park Boundary	9/27/03	1910	0.7349	0.5737	1404	1096	58030
5814	SHU-Hartshorne Dr. - So. Beach Access Rd. to Atlantic Dr.	9/27/03	3154	0.5733	0.4491	1808	1416	58040
5815	SHU-Harshorne Dr. - Atlantic Dr. to Canfield Rd.	9/27/03	1966	0.5733	0.4491	1127	883	58040

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.

* Volume is based on weekend count. Higher volume is expected during the week as there are many office buildings along this link

GATEWAY NATIONAL RECREATION AREA

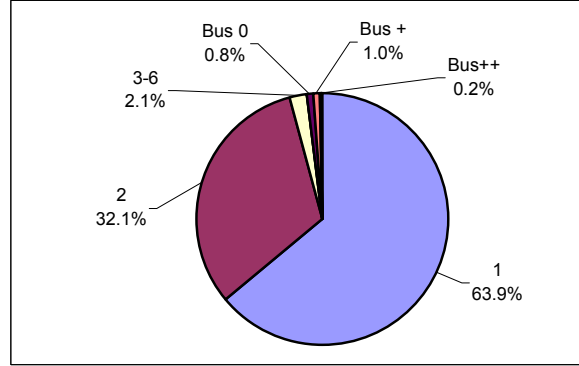
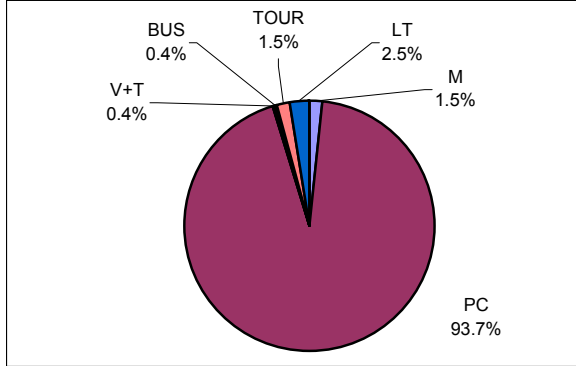
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

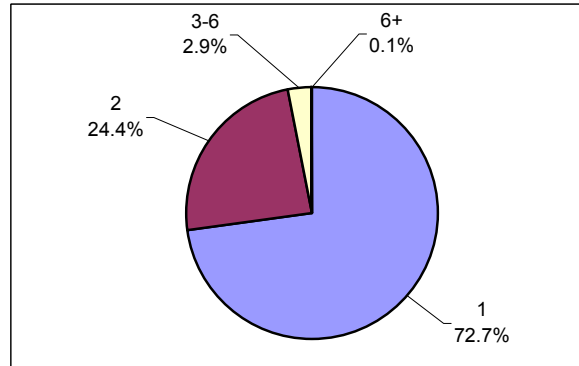
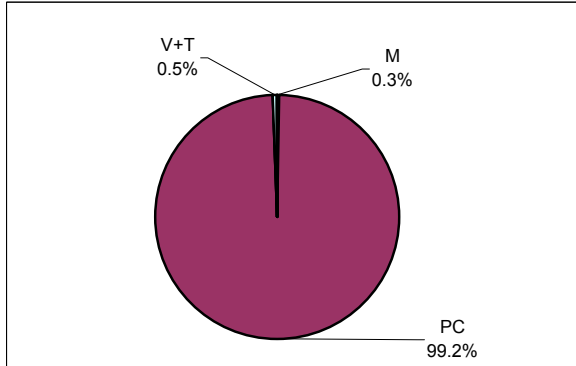
Location: STATION 58010

Location: STATION 58010



Location: STATION 58030

Location: STATION 58030



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.

GATEWAY NATIONAL RECREATION AREA

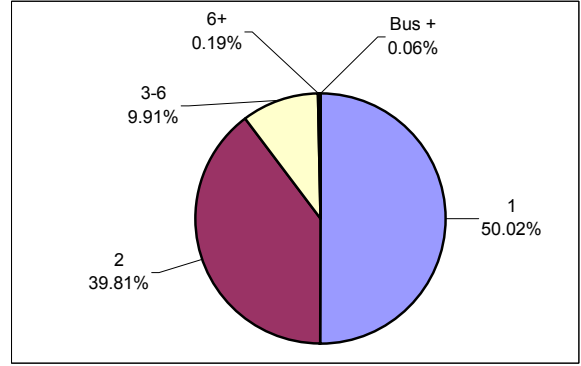
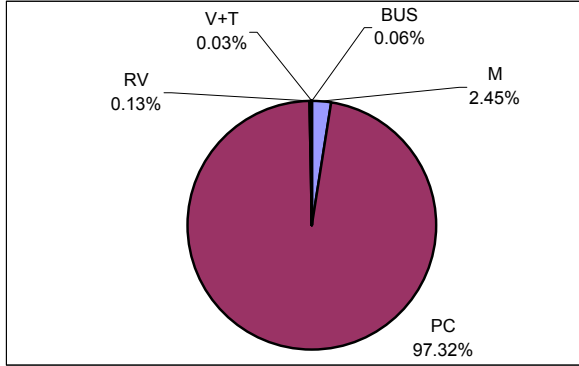
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 58040

Location: STATION 58040



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
TOUF	Tour Buses	Class 4
LT	Light-duty Trucks	Classes 3, 5
HT	Heavy-duty Trucks	Classes 6 - 13

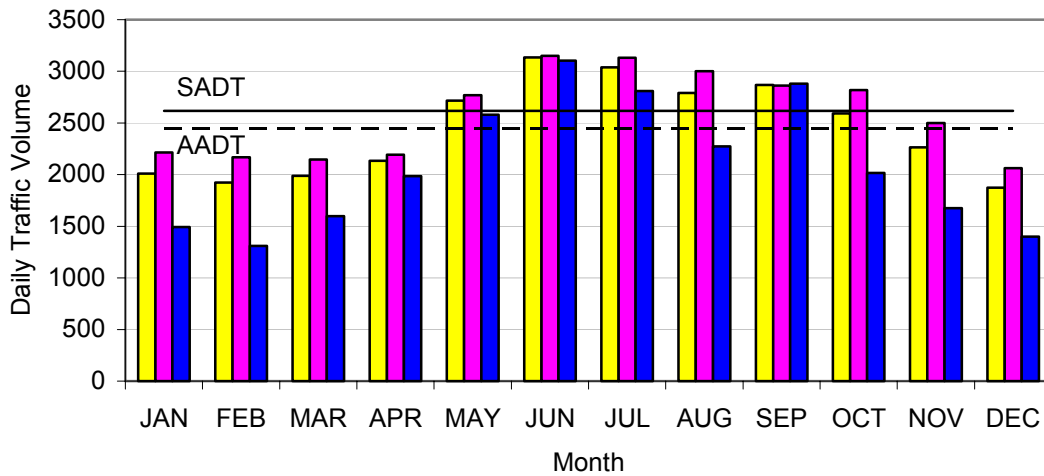
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GATEWAY NATIONAL RECREATION AREA

Station: 58010 JBU-Floyd Bennett Ent. Rd. - Flatbush Ave. to Ranger Rd.

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	2009	2216	1492	1.6384	1.7534
2	2003	1923	2168	1309	1.8675	1.9985
3	2003	1989	2145	1598	1.5297	1.6370
4	2003	2134	2194	1986	1.2309	1.3172
5	2003	2715	2769	2580	0.9475	1.0140
6	2003	3136	3149	3104	0.7875	0.8428
7	2003	3038	3130	2808	0.8705	0.9316
8	2003	2792	3000	2274	1.0750	1.1504
9	2003	2868	2862	2882	0.8482	0.9077
10	2002	2591	2820	2017	1.2119	1.2970
11	2002	2265	2501	1677	1.4577	1.5599
12	2002	1874	2064	1399	1.7473	1.8699
Annual Average Daily Traffic (AADT)				2445		
Annual Average Weekday Traffic (AAWDT)				2585		
Annual Average Weekend Traffic (AAWET)				2094		
Seasonal Average Daily Traffic (SADT)				2616		

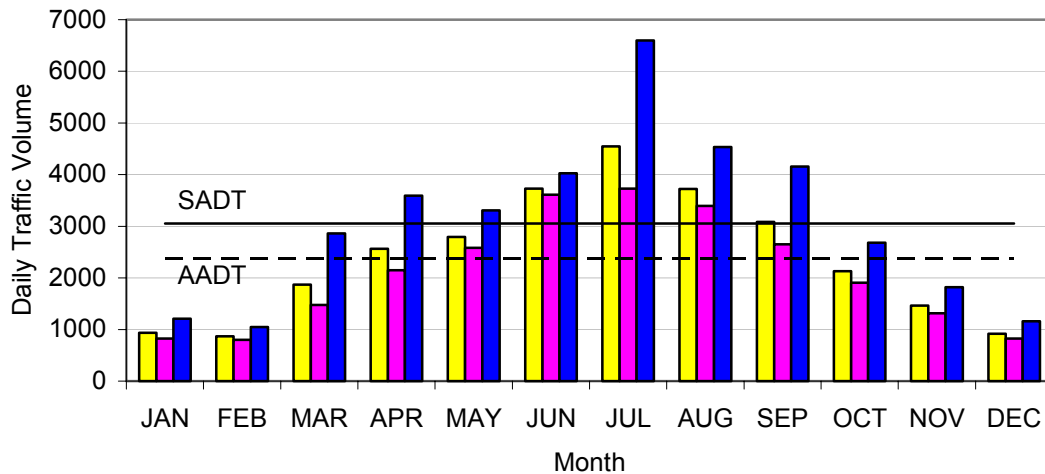


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GATEWAY NATIONAL RECREATION AREA

Station: 58030 SIU-Emmet Road - Park Bdry. To Great Kills Parking Area

Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic (AADTF)	Seasonal Average Daily Traffic (SADTF)
1	2003	933	822	1209	1.9726	2.5269
2	2003	870	800	1046	2.2800	2.9207
3	2003	1871	1474	2862	0.8333	1.0674
4	2003	2562	2151	3590	0.6643	0.8510
5	2003	2792	2584	3311	0.7203	0.9227
6	2003	3731	3613	4025	0.5925	0.7590
7	2003	4550	3730	6600	0.3613	0.4629
8	2003	3720	3394	4537	0.5256	0.6734
9	2003	3082	2652	4157	0.5737	0.7349
10	2002	2130	1909	2681	0.8895	1.1395
11	2002	1459	1313	1823	1.3082	1.6758
12	2002	918	822	1159	2.0577	2.6359
Annual Average Daily Traffic (AADT)				2385		
Annual Average Weekday Traffic (AAWDT)				2105		
Annual Average Weekend Traffic (AAWET)				3083		
Seasonal Average Daily Traffic (SADT)				3055		

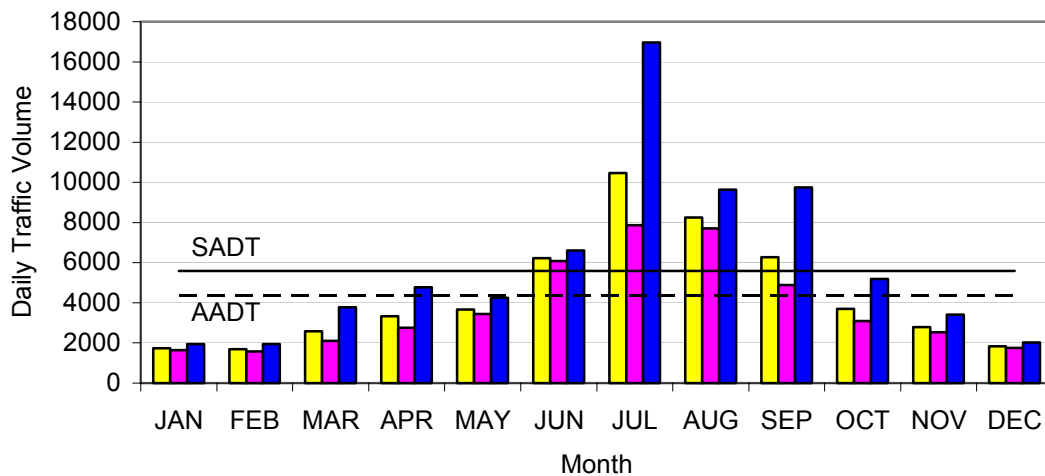


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

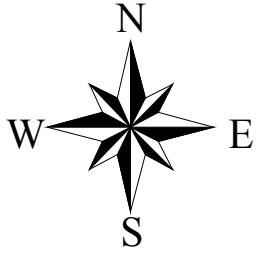
GATEWAY NATIONAL RECREATION AREA

Station: 58040 SHU-Hartshorne Dr. - NJ Hwy. 36 to So. Beach Access Rd.

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	1732	1644	1950	2.2458	2.8667
2	2003	1681	1578	1937	2.2608	2.8859
3	2003	2587	2109	3783	1.1576	1.4777
4	2003	3331	2751	4782	0.9158	1.1690
5	2003	3670	3435	4258	1.0285	1.3128
6	2003	6235	6083	6615	0.6620	0.8450
7	2003	10470	7872	16966	0.2581	0.3295
8	2003	8259	7705	9645	0.4540	0.5796
9	2003	6278	4889	9751	0.4491	0.5733
10	2002	3695	3098	5187	0.8443	1.0777
11	2002	2784	2534	3411	1.2839	1.6388
12	2002	1829	1750	2029	2.1583	2.7551
Annual Average Daily Traffic (AADT)				4379		
Annual Average Weekday Traffic (AAWDT)				3787		
Annual Average Weekend Traffic (AAWET)				5860		
Seasonal Average Daily Traffic (SADT)				5590		

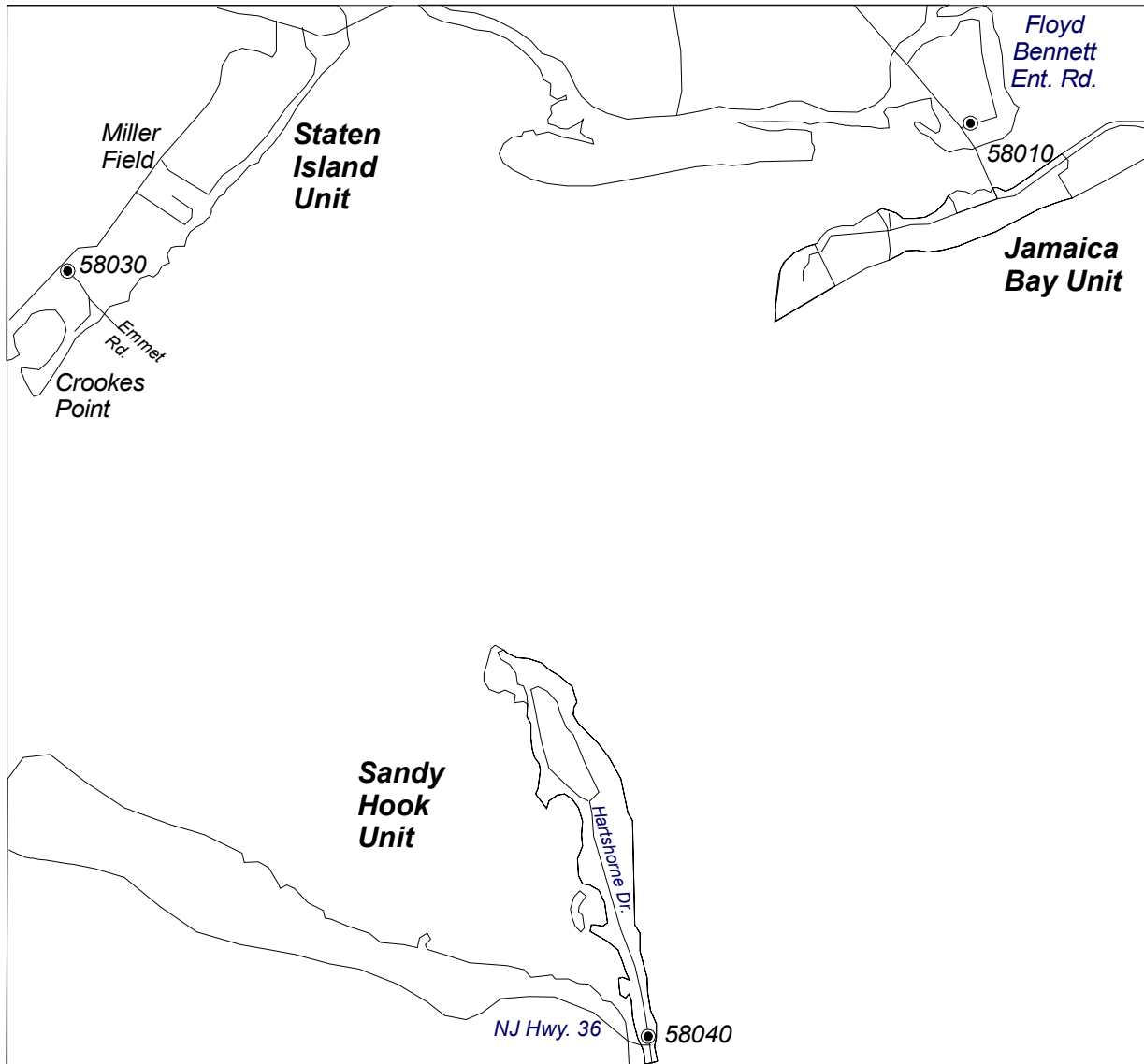


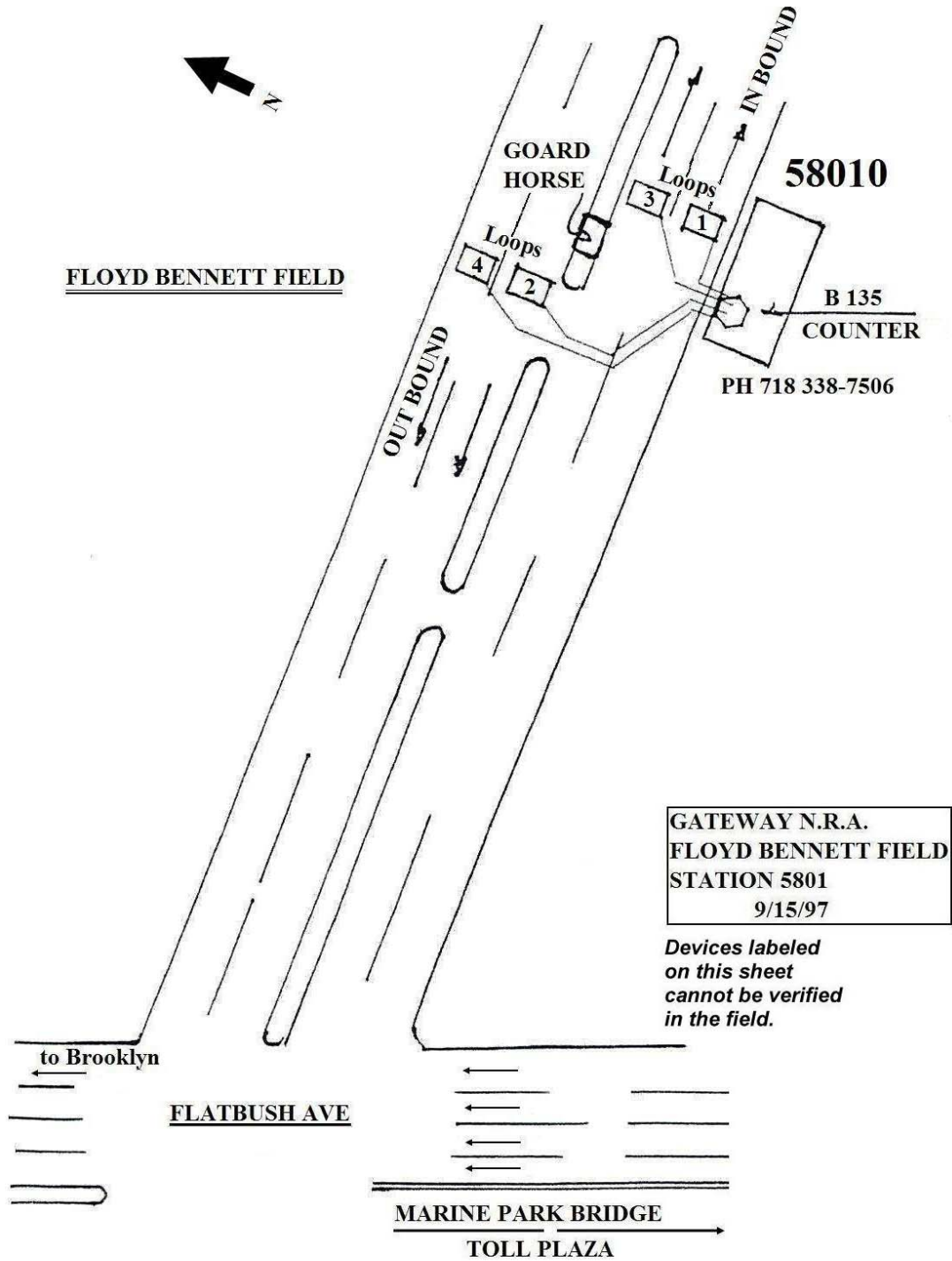
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

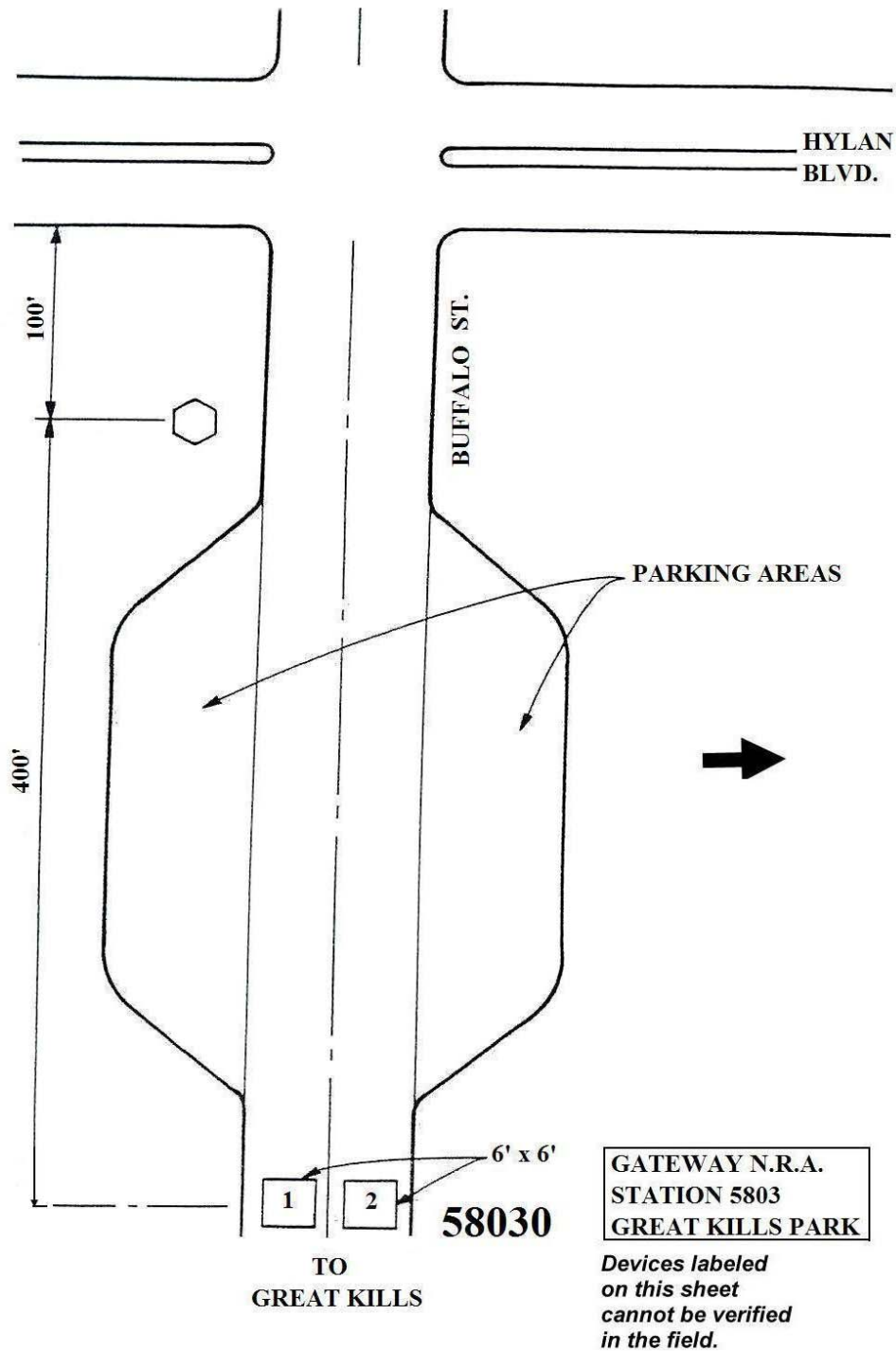


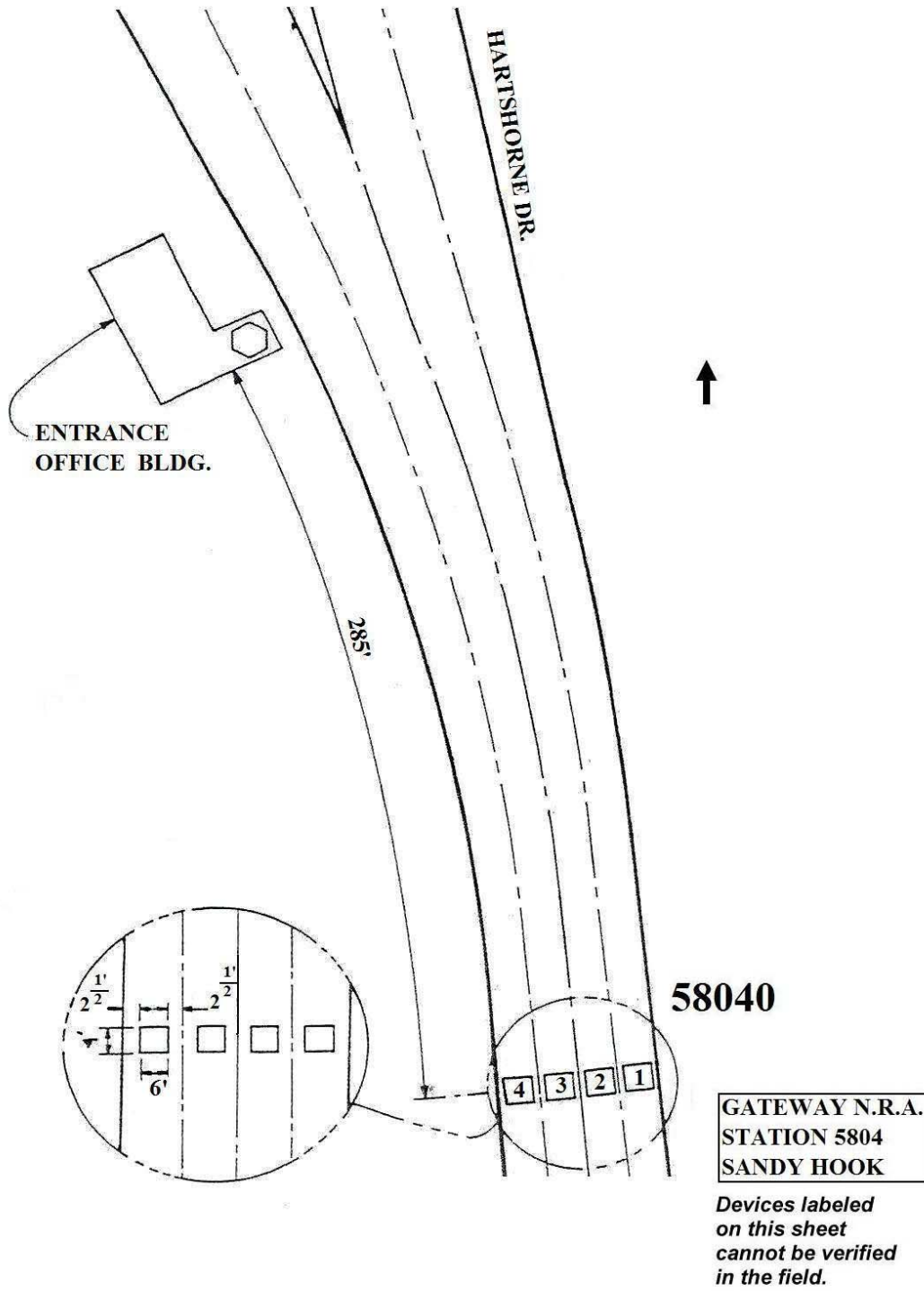
Gateway National Recreation Area

New York & New Jersey
U.S. Department of Interior
NATIONAL PARK SERVICE







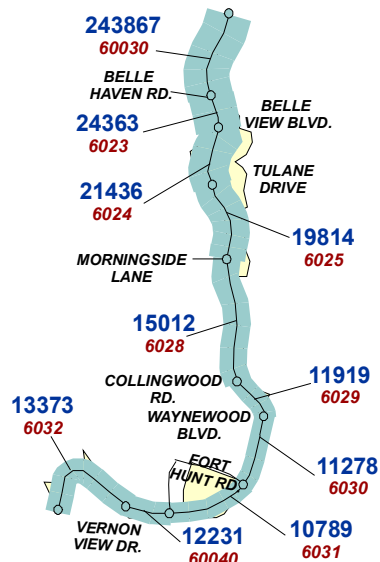
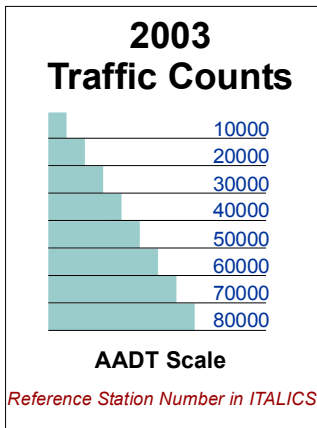
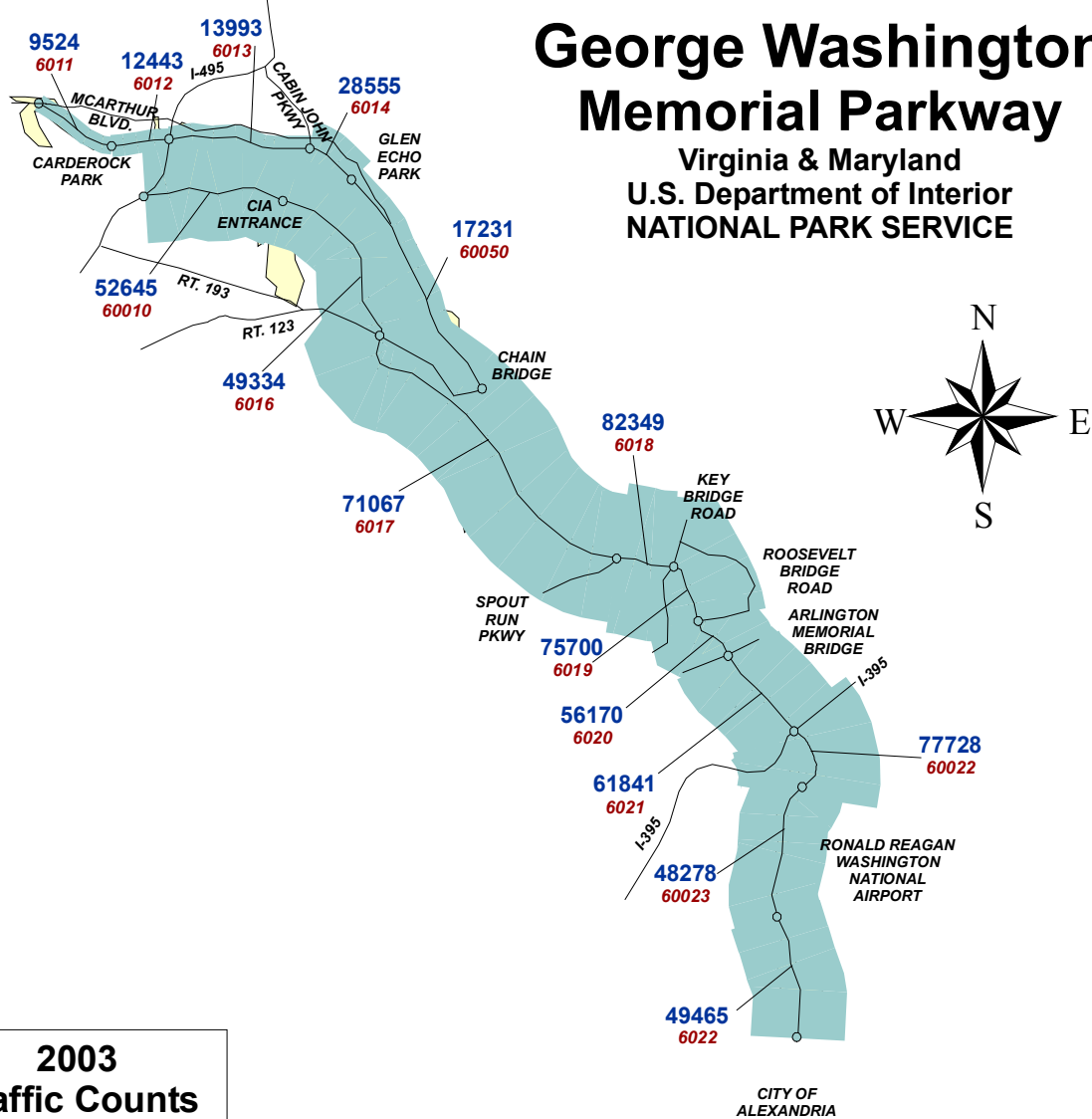


George Washington Parkway Traffic Package



George Washington Memorial Parkway

Virginia & Maryland
U.S. Department of Interior
NATIONAL PARK SERVICE



GEORGE WASHINGTON MEMORIAL PARKWAY TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
1&2	GWMP Virginia - Capital Beltway to CIA Entrance	60010	2.09	51580	42320	46199	52645	39348	32284	35243	40160
1&2	GWMP Virginia - CIA Entrance to Va. Hwy. 123	6016	1.27	51690	44914	44658	49334	23961	20820	20701	22869
1&2	GWMP Virginia - Va. Hwy. 123 to Spout Run	6017	4.03	61844	53616	46161	71067	90969	78866	67901	104536
1&2	GWMP Virginia - Spout Run to Key Bridge Road	6018	0.3	81395	74079	61638	82349	8913	8112	6749	9017
1&2	GWMP Virginia - Key Bridge Road to Roosevelt Bridge Road	6019	0.79	63328	60208	50664	75700	18261	17361	14609	21828
1&2	GWMP Virginia - Roosevelt Bridge Road to Memorial Bridge Rd.	6020	1.46	48184	42411	46737	56170	25677	22601	24906	29933
1&2	GWMP Virginia - Memorial Bridge Road to 14th Street Bridge	6021	0.42	70368	61343	62523	61841	10787	9404	9585	9480
1&2	GWMP Virginia - 14th St. Br. To No. Entrance Natl. Airport.	60022	0.99	77000	83604	82746	77728	27824	30210	29900	28087
1&2	GWMP Virginia - North Entr. To South Entr. Natl. Airport	60023	1.12	77000	54330	46352	48278	31478	22210	18949	19736
1&2	GWMP Virginia - So. Ent. Natl. Arprt. To No. CL Alexandria	6022	2.16	56229	53385	51621	49465	44331	42089	40698	38998
3	GWMP Mt. Vernon Pkwy. - So. CL Alexandria to Belle Haven Rd.	60030	0.67	26706	30308	30833	24386	6531	7412	7540	5964
3	GWMP Mt. Vernon Pkwy. - Belle Haven Rd. to Belle View Blvd.	6023	0.44	26706	30216	31828	24363	4289	4853	5112	3913
3	GWMP Mt. Vernon Pkwy. - Belle View Blvd. To Tulane Drive	6024	0.59	20827	25602	24287	21436	4485	5513	5230	4616
3	GWMP Mt. Vernon Pkwy. - Tulane Drive to Morningside Lane	6025	1.04	20067	23809	22590	19814	7617	9038	8575	7521
3	GWMP Mt. Vernon Pkwy. - Morningside Lane to Collingwood Rd.	6028	1.52	14617	15704	17742	15012	8110	8713	9843	8329
3	GWMP Mt. Vernon Pkwy. - Collingwood Rd. to Waynewood Blvd.	6029	0.93	11983	14442	13074	11919	4068	4902	4438	4046
3	GWMP Mt. Vernon Pkwy. - Waynewood Blvd. To Fort Hunt Rd.	6030	0.56	11471	12212	12001	11278	2345	2496	2453	2305
3	GWMP Mt. Vernon Pkwy. - Fort Hunt Road to Vernon View Dr.	6031	0.93	8309	12714	11293	10789	2820	4316	3833	3662
3	GWMP Mt. Vernon Pkwy. - Vernon View Drive to Stratford Lane	60040	0.56	6000	12545	12620	12231	1226	2564	2580	2500
3	GWMP Mt. Vernon Pkwy. - Stratford Lane to Mt. Vernon	6032	1.19	3655	6670	12629	13373	1588	2897	5485	5809
6&7	GWMP Maryland - Chain Bridge Road to Glen Echo	60050	2.66	32952	19028	18217	17231	31993	18474	17687	16730
6&7	GWMP Maryland - Glen Echo to Cabin John Parkway	6014	0.92	32952	35003	6649	28555	11065	11754	2233	9589
6&7	GWMP Maryland - Cabin John Parkway to Capital Beltway	6013	1.53	13930	13928	10116	13993	7779	7778	5649	7814
6&7	GWMP Maryland - Capital Beltway to Carderock Park.	6012	0.9	12820	12994	12067	12443	4211	4269	3964	4088
6&7	GWMP Maryland - Carderock Park to McArthur Boulevard	6011	0.84	9478	9991	9418	9524	2906	3063	2888	2920
VMT SUMMARY							422582	381999	356751	414450	

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

GEORGE WASHINGTON MEMORIAL PARKWAY

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
60010	GWMP Virginia - Capital Beltway to CIA Entrance					53943	52645	Self
60021	National Airport North Exit Road					17111	16670	Self
60022	GWMP Virginia - 14th St. Br. To No. Entrance Natl. Airport.					79531	77728	Self
60023	GWMP Virginia - North Entr. To South Entr. Natl. Airport					49403	48278	Self
60024	National Airport North Entrance Road					13111	12780	Self
60030	GWMP Mt. Vernon Pkwy. - So. CL Alexandria to Belle Haven Rd.					24933	24386	Self
60040	GWMP Mt. Vernon Pkwy. - Vernon View Drive to Stratford Lane					12694	12231	Self
60050	GWMP Maryland - Chain Bridge Road to Glen Echo					17485	17231	Self
6011	GWMP Maryland - Carderock Park to McArthur Boulevard	8/5/03	10192	0.9482	0.9345	9664	9524	60050
6012	GWMP Maryland - Capital Beltway to Carderock Park.	8/5/03	13316	0.9482	0.9345	12626	12443	60050
6013	GWMP Maryland - Cabin John Parkway to Capital Beltway	8/5/03	14974	0.9482	0.9345	14199	13993	60050
6014	GWMP Maryland - Glen Echo to Cabin John Parkway	8/5/03	30558	0.9482	0.9345	28975	28555	60050
6016	GWMP Virginia - CIA Entrance to Va. Hwy. 123	8/4/03	57488	0.8793	0.8582	50551	49334	60010
6017	GWMP Virginia - Va. Hwy. 123 to Spout Run	8/5/03	75973	0.9571	0.9354	72715	71067	60022
6018	GWMP Virginia - Spout Run to Key Bridge Road	8/5/03	88034	0.9571	0.9354	84259	82349	60022
6019	GWMP Virginia - Key Bridge Road to Roosevelt Bridge Road	8/6/03	80926	0.9571	0.9354	77456	75700	60022
6020	GWMP Virginia - Roosevelt Bridge Road to Memorial Bridge Rd.	8/6/03	60048	0.9571	0.9354	57473	56170	60022
6021	GWMP Virginia - Memorial Bridge Road to 14th Street Bridge	8/4/03	66110	0.9571	0.9354	63275	61841	60022
6022	GWMP Virginia - So. Ent. Natl. Arprt. To No. CL Alexandria	8/5/03	54785	0.9239	0.9029	50617	49465	60023
6023	GWMP Mt. Vernon Pkwy. - Belle Haven Rd. to Belle View Blvd.	8/5/03	26836	0.9282	0.9078	24909	24363	60030
6024	GWMP Mt. Vernon Pkwy. - Belle View Blvd. To Tulane Drive	8/5/03	23612	0.9282	0.9078	21916	21436	60030
6025	GWMP Mt. Vernon Pkwy. - Tulane Drive to Morningside Lane	8/5/03	21826	0.9282	0.9078	20259	19814	60030
6028	GWMP Mt. Vernon Pkwy. - Morningside Lane to Collingwood Rd.	8/5/03	16536	0.9282	0.9078	15349	15012	60030
6029	GWMP Mt. Vernon Pkwy. - Collingwood Rd. to Waynewood Blvd.	8/5/03	12934	0.9564	0.9215	12370	11919	60040
6030	GWMP Mt. Vernon Pkwy. - Waynewood Blvd. To Fort Hunt Rd.	8/5/03	12238	0.9564	0.9215	11704	11278	60040
6031	GWMP Mt. Vernon Pkwy. - Fort Hunt Road to Vernon View Dr.	8/5/03	11708	0.9564	0.9215	11197	10789	60040
6032	GWMP Mt. Vernon Pkwy. - Stratford Lane to Mt. Vernon	8/5/03	14512	0.9564	0.9215	13879	13373	60040

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.

GEORGE WASHINGTON MEMORIAL PARKWAY

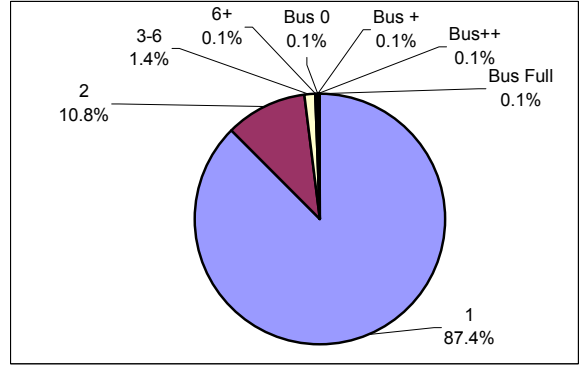
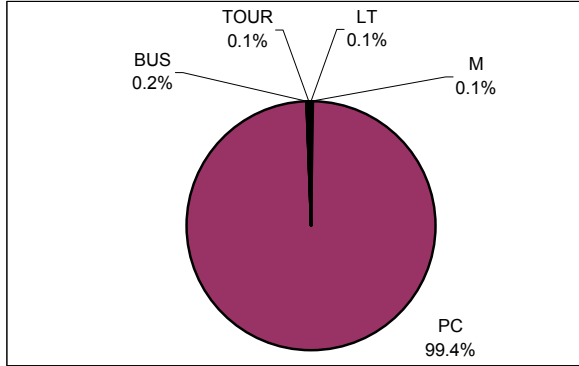
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

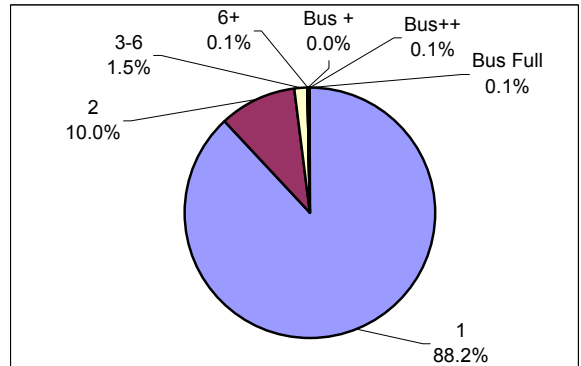
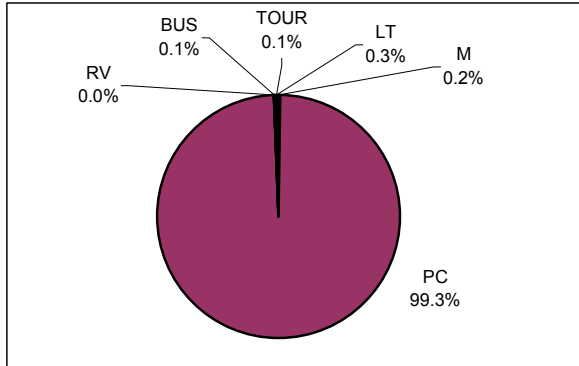
Location: STATION 6017

Location: STATION 6017



Location: STATION 60030

Location: STATION 60030



CLASSIFICATION 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

OCCUPANCY LEGEND:

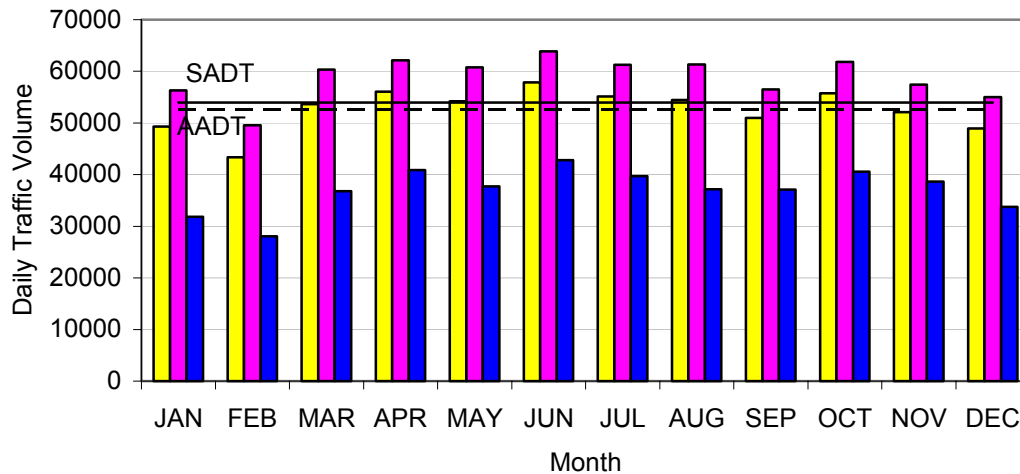
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60010 GWMP Virginia - Capital Beltway to CIA Entrance

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	49317	56304	31850	0.9350	0.9581
2	2003	43393	49529	28052	1.0629	1.0891
3	2003	53617	60345	36796	0.8724	0.8939
4	2003	56061	62128	40893	0.8474	0.8683
5	2003	54176	60746	37753	0.8666	0.8880
6	2003	57866	63879	42832	0.8241	0.8445
7	2003	55134	61296	39730	0.8589	0.8800
8	2003	54432	61346	37150	0.8582	0.8793
9	2003	50978	56516	37134	0.9315	0.9545
10	2003	55771	61852	40568	0.8511	0.8721
11	2003	52074	57438	38662	0.9165	0.9392
12	2003	48917	54979	33762	0.9575	0.9812
Annual Average Daily Traffic (AADT)				52645		
Annual Average Weekday Traffic (AAWDT)				58863		
Annual Average Weekend Traffic (AAWET)				37099		
Seasonal Average Daily Traffic (SADT)				53943		

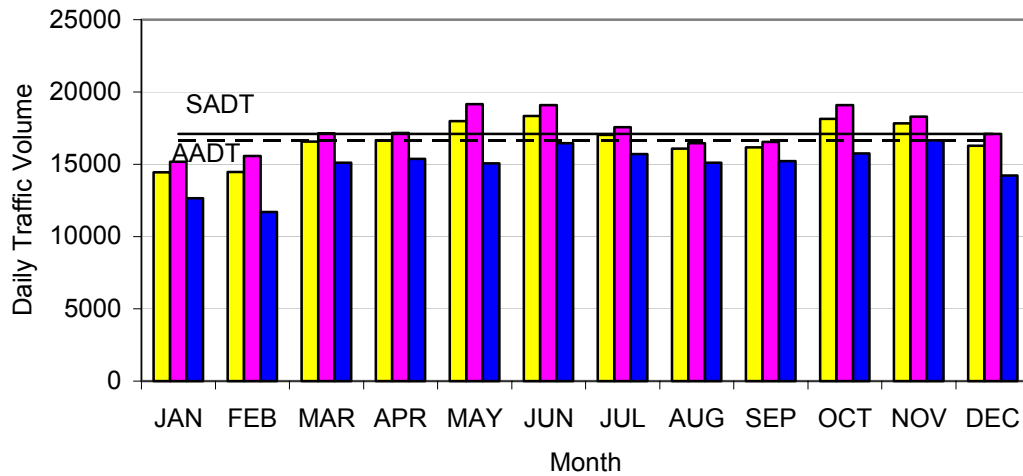


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60021 National Airport North Exit Road

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	14451	15171	12652	1.0988	1.1279
2	2003	14477	15582	11714	1.0698	1.0981
3	2003	16572	17157	15108	0.9716	0.9973
4	2003	16663	17176	15378	0.9705	0.9962
5	2003	17992	19159	15075	0.8701	0.8931
6	2003	18343	19094	16465	0.8730	0.8961
7	2003	17036	17564	15717	0.9491	0.9742
8	2003	16084	16471	15114	1.0121	1.0389
9	2003	16173	16552	15227	1.0071	1.0338
10	2003	18143	19097	15758	0.8729	0.8960
11	2003	17826	18293	16659	0.9113	0.9354
12	2003	16276	17095	14229	0.9751	1.0009
Annual Average Daily Traffic (AADT)				16670		
Annual Average Weekday Traffic (AAWDT)				17368		
Annual Average Weekend Traffic (AAWET)				14925		
Seasonal Average Daily Traffic (SADT)				17111		

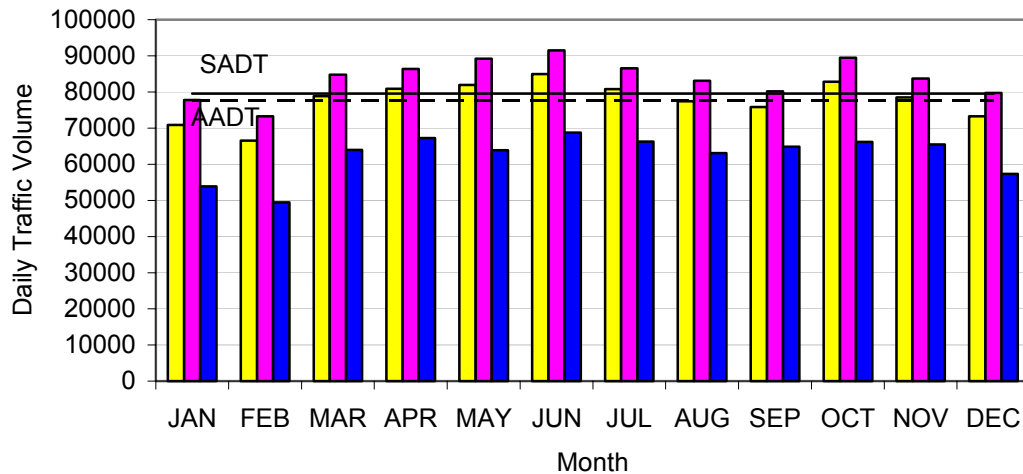


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60022 GWMP Virginia - 14th St. Br. To No. Entrance Natl. Airport.

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	70927	77751	53867	0.9997	1.0229
2	2003	66506	73309	49499	1.0603	1.0849
3	2003	78845	84776	64019	0.9169	0.9381
4	2003	80918	86389	67243	0.8997	0.9206
5	2003	81962	89205	63853	0.8713	0.8916
6	2003	84997	91497	68747	0.8495	0.8692
7	2003	80761	86536	66323	0.8982	0.9191
8	2003	77390	83094	63132	0.9354	0.9571
9	2003	75804	80180	64864	0.9694	0.9919
10	2003	82821	89459	66227	0.8689	0.8890
11	2003	78504	83712	65486	0.9285	0.9501
12	2003	73305	79701	57316	0.9752	0.9979
Annual Average Daily Traffic (AADT)				77728		
Annual Average Weekday Traffic (AAWDT)				83801		
Annual Average Weekend Traffic (AAWET)				62548		
Seasonal Average Daily Traffic (SADT)				79531		

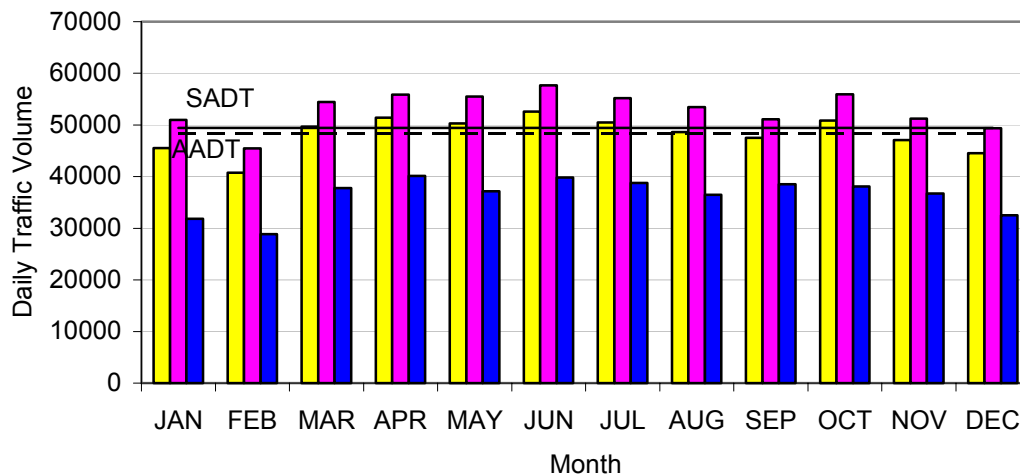


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60023 GWMP Virginia - North Entr. To South Entr. Natl. Airport

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	45506	50971	31845	0.9472	0.9692
2	2003	40745	45484	28896	1.0614	1.0862
3	2003	49681	54448	37765	0.8867	0.9073
4	2003	51392	55885	40158	0.8639	0.8840
5	2003	50276	55519	37168	0.8696	0.8898
6	2003	52587	57679	39858	0.8370	0.8565
7	2003	50493	55191	38748	0.8748	0.8951
8	2003	48626	53471	36513	0.9029	0.9239
9	2003	47503	51092	38531	0.9449	0.9669
10	2003	50867	55965	38122	0.8627	0.8827
11	2003	47099	51256	36706	0.9419	0.9638
12	2003	44566	49382	32526	0.9777	1.0004
Annual Average Daily Traffic (AADT)				48278		
Annual Average Weekday Traffic (AAWDT)				53029		
Annual Average Weekend Traffic (AAWET)				36403		
Seasonal Average Daily Traffic (SADT)				49403		

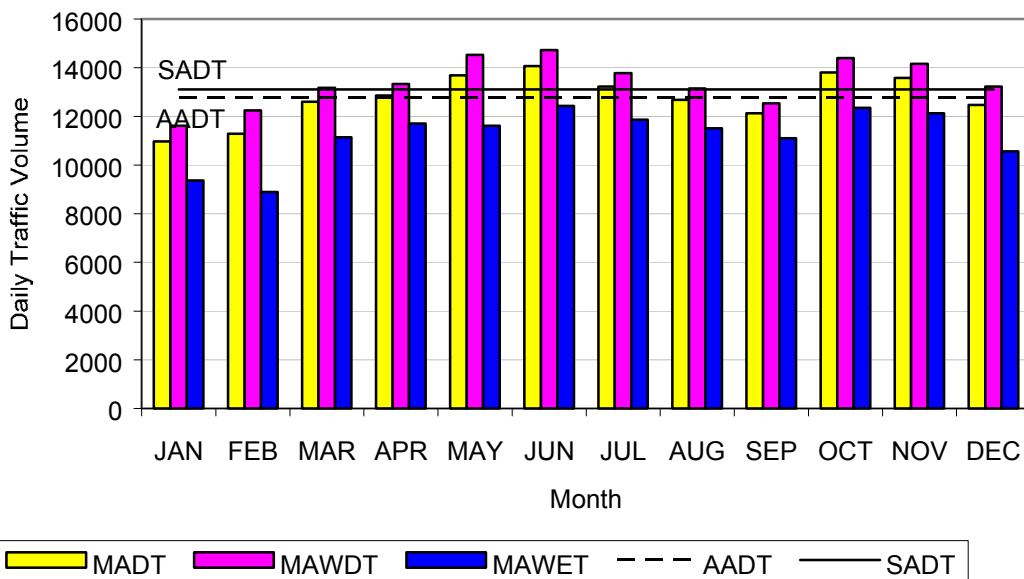


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60024 National Airport North Entrance Road

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	10970	11610	9370	1.1008	1.1293
2	2003	11284	12242	8889	1.0440	1.0710
3	2003	12592	13171	11145	0.9703	0.9954
4	2003	12864	13327	11707	0.9590	0.9838
5	2003	13694	14527	11611	0.8798	0.9025
6	2003	14067	14724	12423	0.8680	0.8905
7	2003	13231	13780	11857	0.9274	0.9515
8	2003	12681	13151	11505	0.9718	0.9970
9	2003	12127	12536	11105	1.0195	1.0459
10	2003	13811	14397	12346	0.8877	0.9107
11	2003	13579	14163	12120	0.9024	0.9257
12	2003	12463	13224	10561	0.9664	0.9915
Annual Average Daily Traffic (AADT)				12780		
Annual Average Weekday Traffic (AAWDT)				13404		
Annual Average Weekend Traffic (AAWET)				11220		
Seasonal Average Daily Traffic (SADT)				13111		

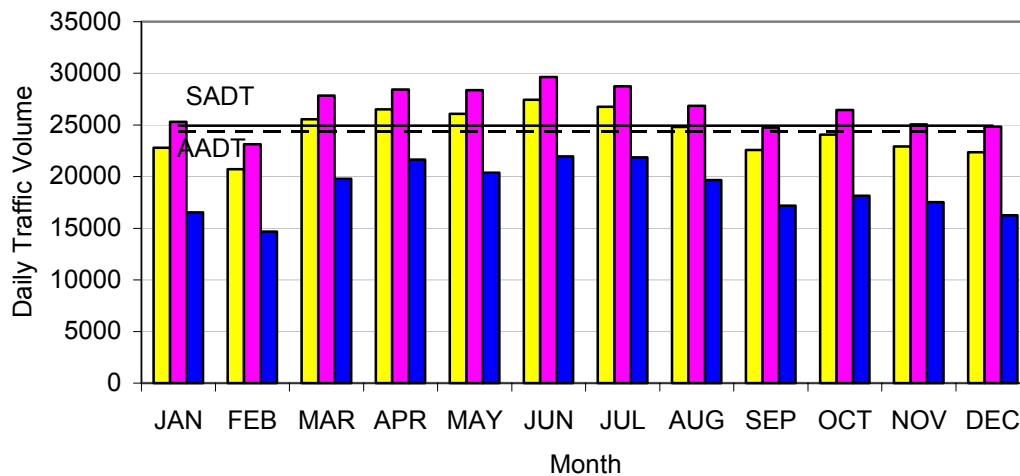


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60030 GWMP Mt. Vernon Pkwy. - So. CL Alexandria to Belle Haven Rd.

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	22800	25300	16551	0.9639	0.9855
2	2003	20713	23123	14688	1.0546	1.0783
3	2003	25550	27855	19789	0.8755	0.8951
4	2003	26501	28440	21653	0.8575	0.8767
5	2003	26093	28378	20380	0.8593	0.8786
6	2003	27455	29649	21969	0.8225	0.8409
7	2003	26767	28728	21864	0.8489	0.8679
8	2003	24803	26862	19655	0.9078	0.9282
9	2003	22591	24751	17191	0.9853	1.0074
10	2003	24075	26440	18163	0.9223	0.9430
11	2003	22910	25059	17536	0.9732	0.9950
12	2003	22378	24827	16256	0.9823	1.0043
Annual Average Daily Traffic (AADT)				24386		
Annual Average Weekday Traffic (AAWDT)				26618		
Annual Average Weekend Traffic (AAWET)				18808		
Seasonal Average Daily Traffic (SADT)				24933		

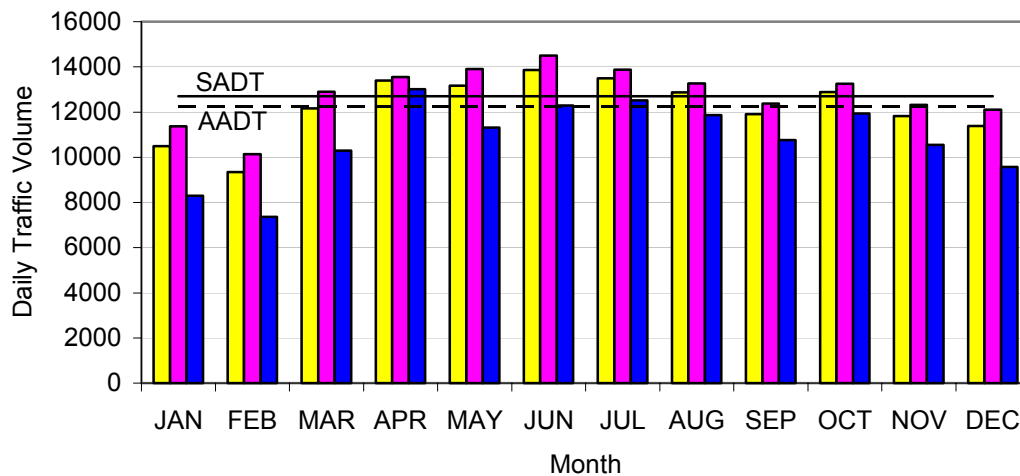


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60040 GWMP Mt. Vernon Pkwy. - Vernon View Drive to Stratford Lane

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	10488	11365	8298	1.0762	1.1169
2	2003	9351	10145	7364	1.2057	1.2513
3	2003	12158	12906	10290	0.9477	0.9836
4	2003	13398	13552	13012	0.9026	0.9367
5	2003	13162	13900	11315	0.8800	0.9132
6	2003	13866	14497	12289	0.8437	0.8756
7	2003	13492	13880	12521	0.8812	0.9146
8	2003	12871	13273	11865	0.9215	0.9564
9	2003	11911	12369	10765	0.9889	1.0263
10	2003	12879	13258	11930	0.9226	0.9575
11	2003	11817	12324	10551	0.9925	1.0300
12	2003	11384	12107	9574	1.0103	1.0485
Annual Average Daily Traffic (AADT)				12231		
Annual Average Weekday Traffic (AAWDT)				12798		
Annual Average Weekend Traffic (AAWET)				10815		
Seasonal Average Daily Traffic (SADT)				12694		

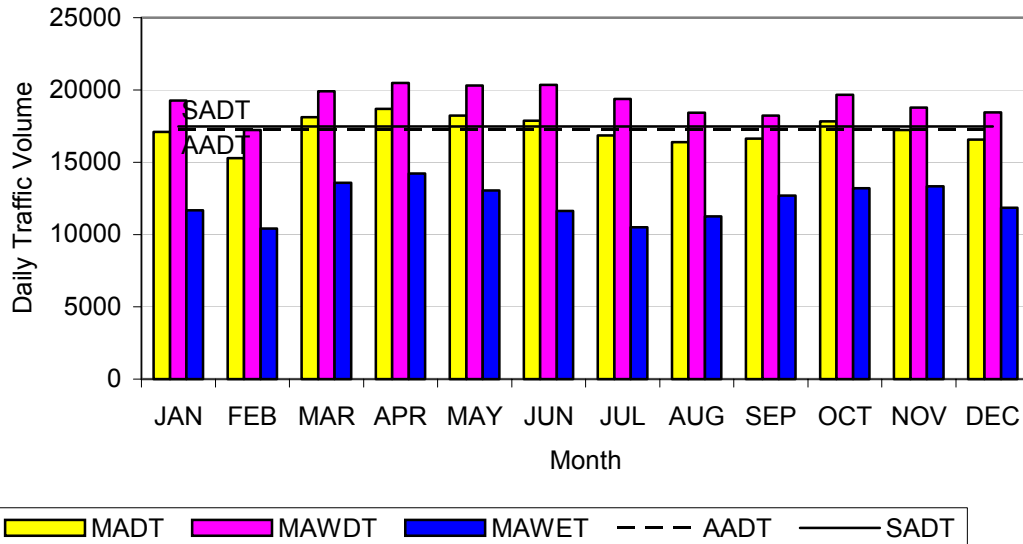


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GEORGE WASHINGTON MEMORIAL PARKWAY

Station: 60050 GWMP Maryland - Chain Bridge Road to Glen Echo

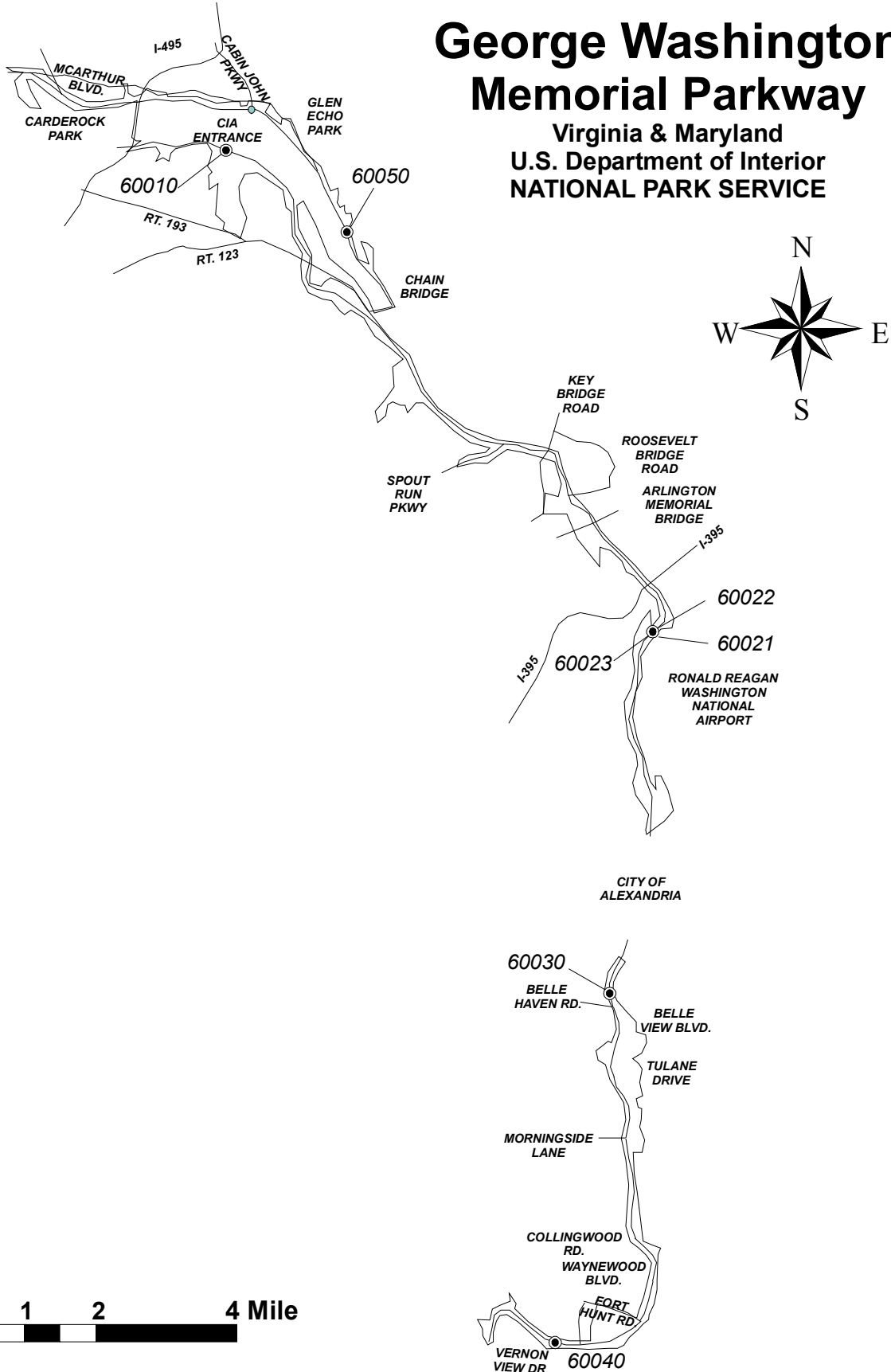
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	17097	19268	11672	0.8943	0.9075
2	2003	15282	17226	10422	1.0003	1.0150
3	2003	18110	19916	13594	0.8652	0.8779
4	2003	18696	20487	14219	0.8411	0.8535
5	2003	18228	20300	13048	0.8488	0.8613
6	2003	17868	20361	11636	0.8463	0.8587
7	2003	16849	19384	10513	0.8889	0.9020
8	2003	16388	18440	11259	0.9345	0.9482
9	2003	16644	18223	12696	0.9456	0.9595
10	2003	17821	19669	13200	0.8761	0.8890
11	2003	17230	18785	13341	0.9173	0.9308
12	2003	16563	18449	11848	0.9340	0.9477
Annual Average Daily Traffic (AADT)				17231		
Annual Average Weekday Traffic (AAWDT)				19209		
Annual Average Weekend Traffic (AAWET)				12287		
Seasonal Average Daily Traffic (SADT)				17485		

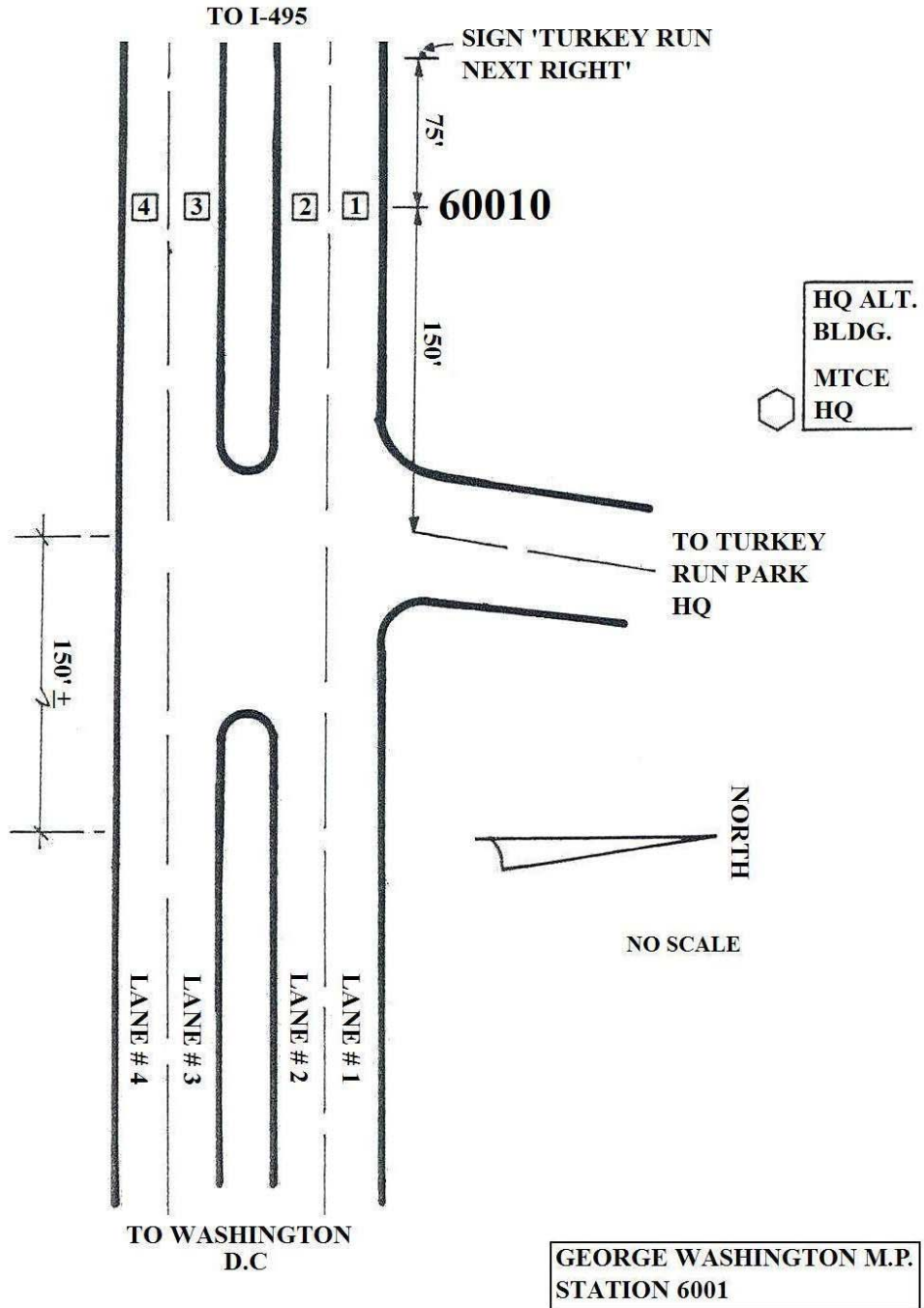


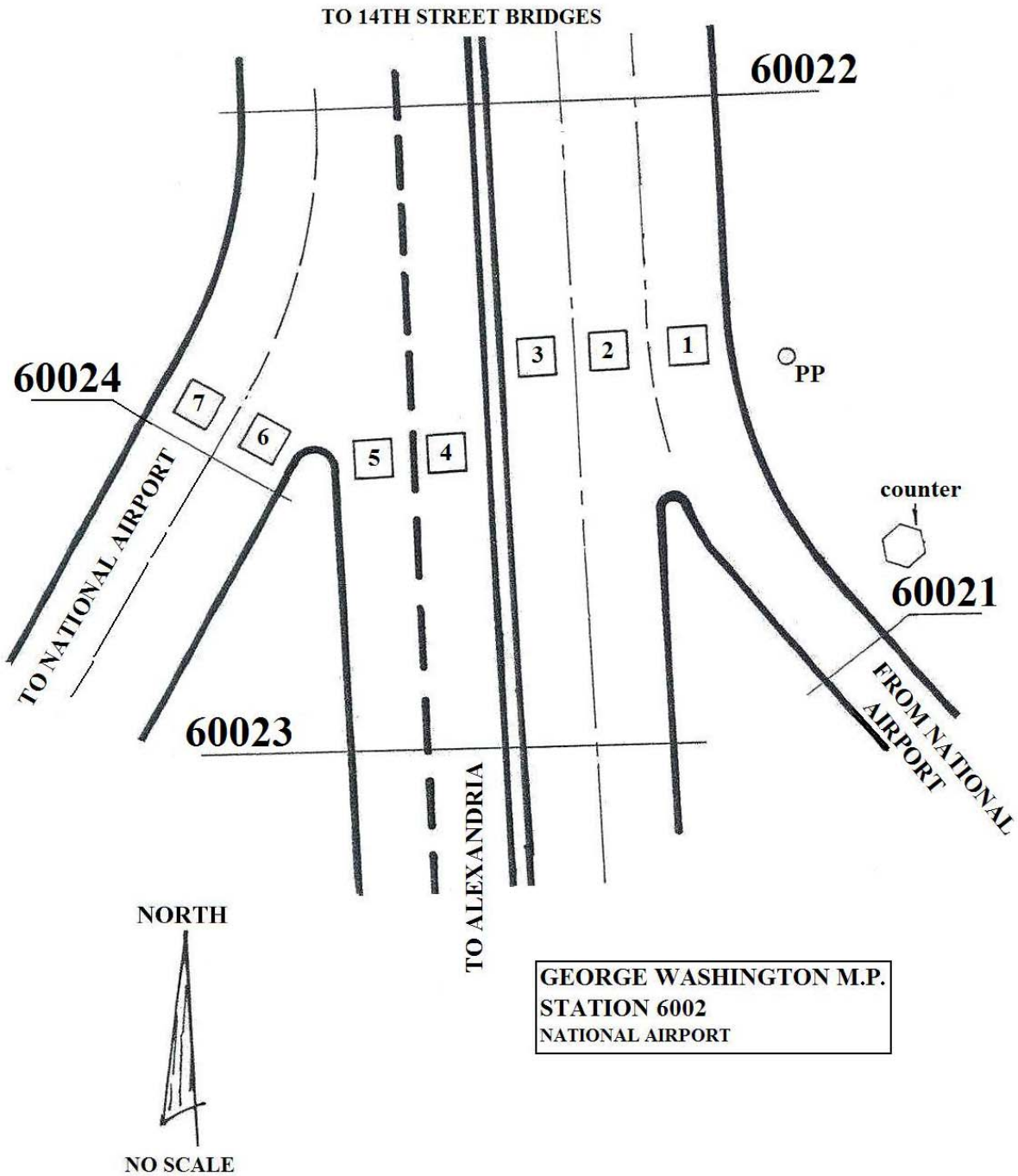
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
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 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

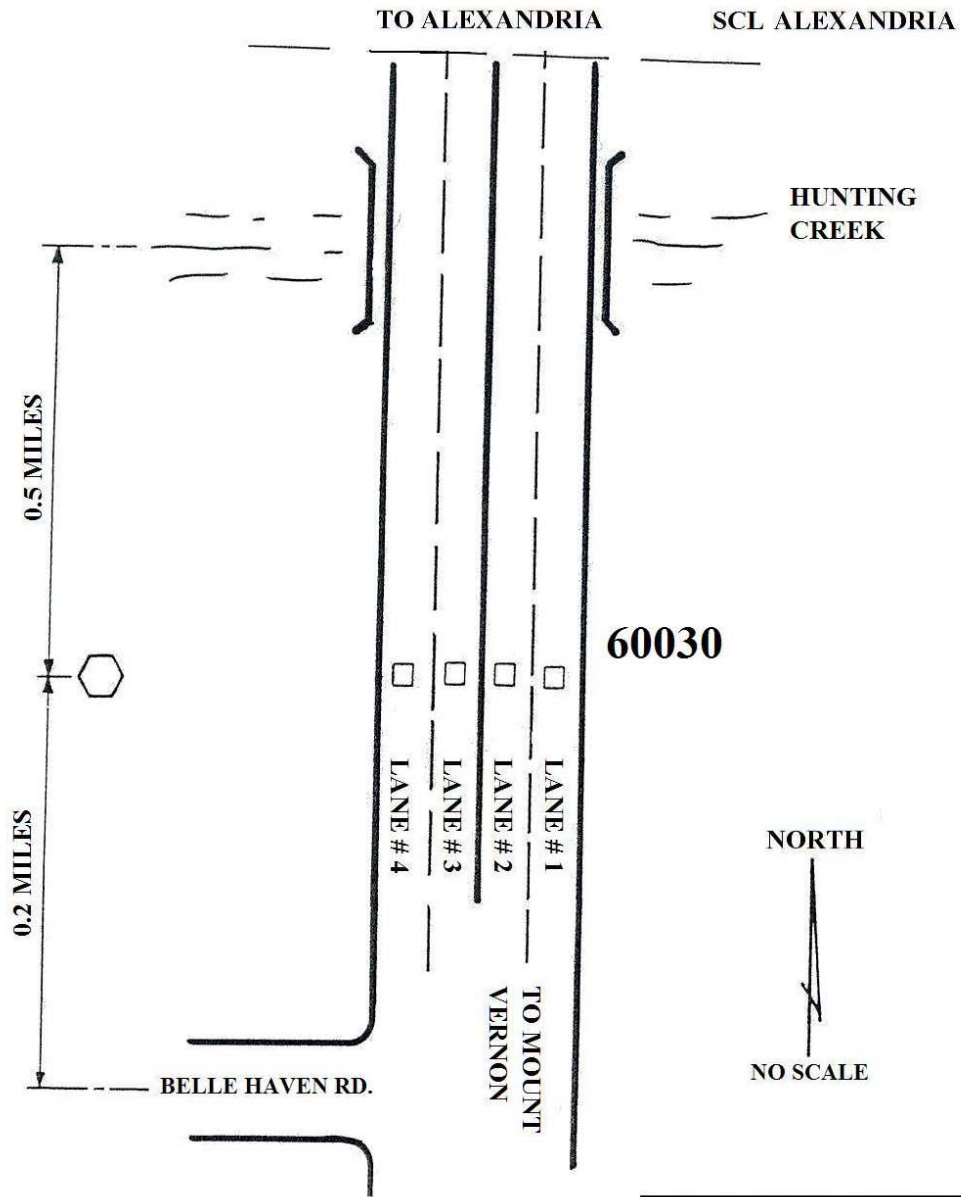
George Washington Memorial Parkway

Virginia & Maryland
U.S. Department of Interior
NATIONAL PARK SERVICE

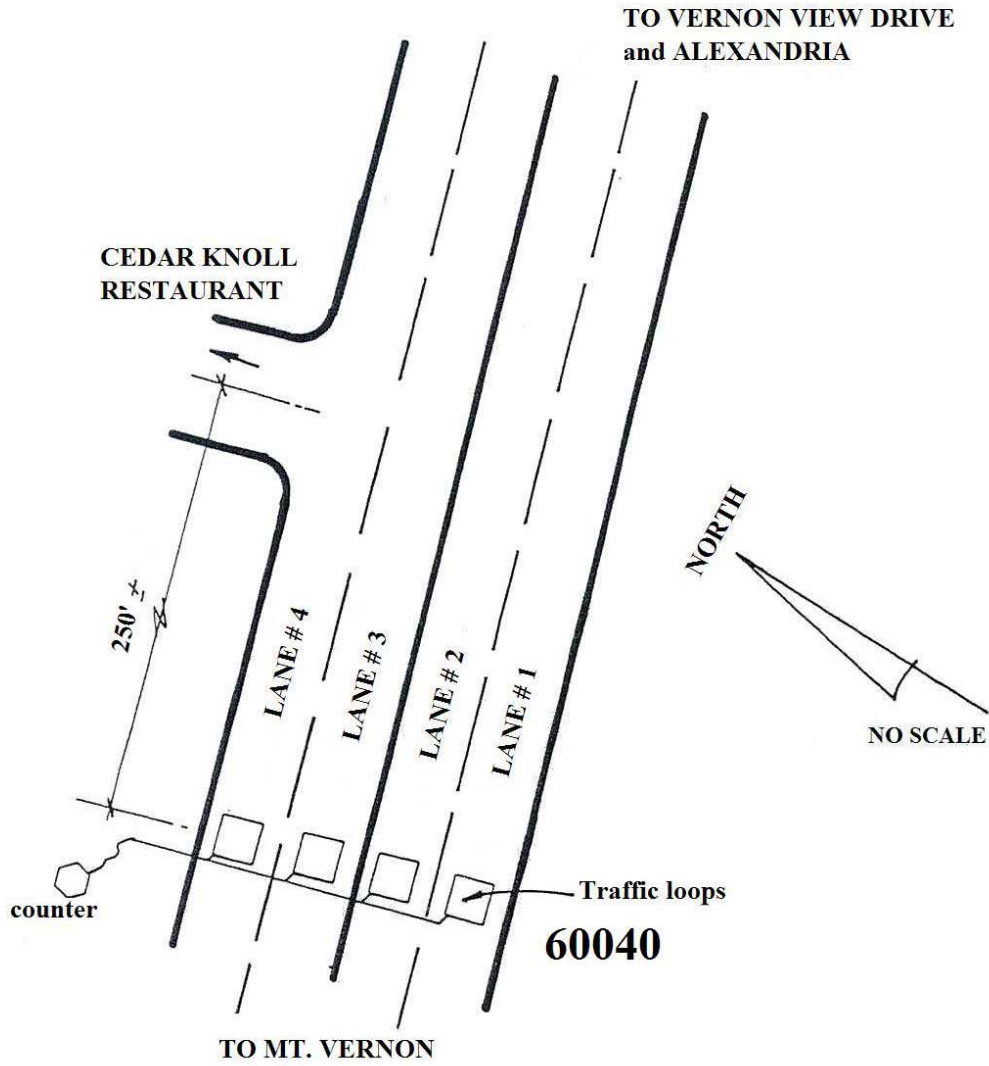




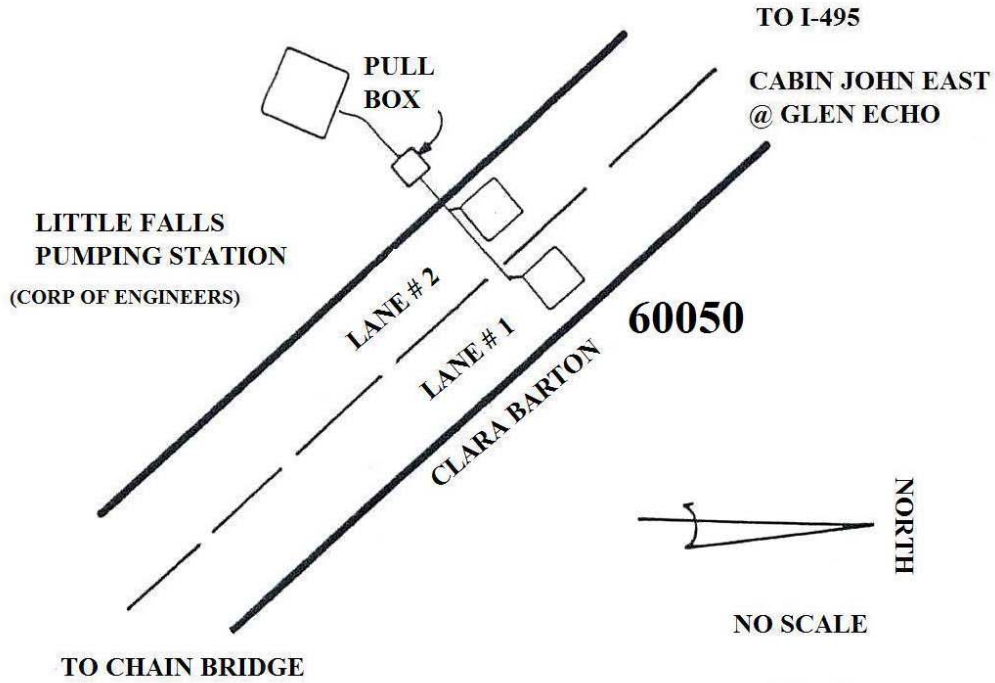




GEORGE WASHINGTON M.P.
STATION 6003



GEORGE WASHINGTON M.P.
MT. VERNON
STATION 6004



HOUR	LANE 1	LANE 2
6:30 A.M — 9:30 A.M	SOUTH	SOUTH
3:30 P.M — 7:00 P.M	NORTH	CLOSED
OTHERS	NORTH	SOUTH

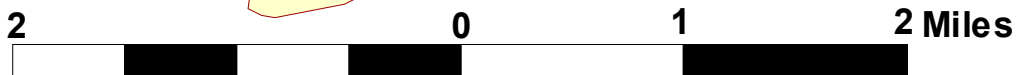
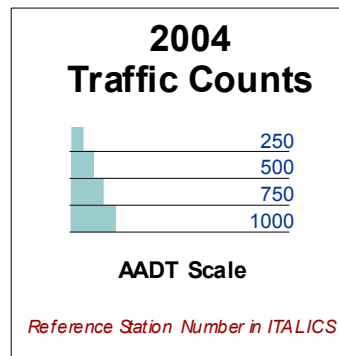
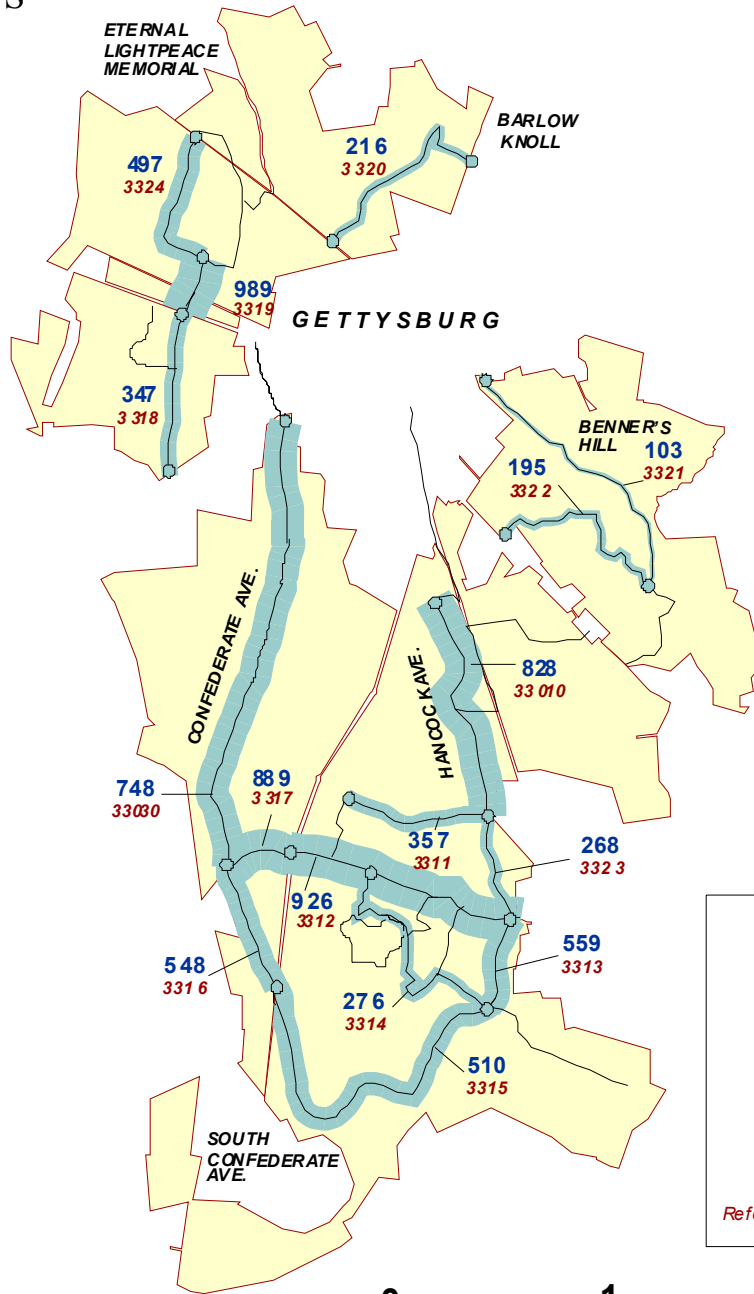
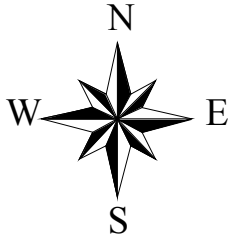
GEORGE WASHINGTON M.P.
LITTLE FALLS PUMPING STATION
MARYLAND
STATION 6005

Gettysburg National Military Park Traffic Package



Gettysburg National Military Park

Pennsylvania
U.S. Department of Interior
NATIONAL PARK SERVICE



GETTYSBURG NATIONAL MILITARY PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)*			
				1988	1991	1994	2004	1988	1991	1994	2004
10	Hancock Ave.- Taneytown Road to United States Avenue	33010	1.24	697	714	697	828	315	323	315	375
11	Sedgwick Ave. - United States Avenue to Wheatfield Road **	3323	0.52	697	714	697	268	132	136	132	51
12	So. Confederate Ave. - Wheatfield Road to Warren Avenue	3313	0.42	535	440	855	559	82	67	131	86
12	So. Confederate Ave. - Warren Avenue to U.S. Hwy. 15 Bus Rt.	3315	1.51	251	156	1078	510	138	86	594	281
13	Wheatfield Rd. - Taneytown Road to U.S Hwy. 15 Bus Rt.	3312	1.14	356	1186	956	926	148	493	398	385
53	Wheatfield Rd. - U.S Hwy. 15 Bus Rt. to W.Confederate Ave.	3317	0.31	191	2172	1007	889	22	246	114	101
14	United States Ave. - Hancock Avenue to U.S Hwy. 15 Bus Rt.	3311	0.78	208	427	635	357	59	122	181	102
16	Warren Ave. - Sedgwick Avenue to Crawford Ave.	3314	0.29	523	315	314	276	55	33	33	29
18	W.Confederate Ave. - U.S. Hwy. 15 Bus Rt to Wheatfield Rd.	3316	0.67	850	1455	1041	548	208	356	255	134
18	W.Confederate Ave. - Wheatfield Rd. to Pa.Hwy.116	33030	2.08	1175	1404	1192	748	892	1066	905	568
23	Reynolds Ave. - Pa. Hwy. 116 to U.S Hwy. 30	3318	0.7	1553	1241	1351	347	397	317	345	89
23	Reynolds Ave. - U.S Hwy. 30 to Buford Avenue	3319	0.28	2026	2039	1691	989	207	208	173	101
28	Howard Ave. - Mummasburg Road to U.S Hwy. 15 Bus. Rt.	3320	0.94	2517	1494	518	216	864	513	178	74
29	E.Confederate Ave. - Park Boundary to Slocum Avenue	3321	1.3	525	175	116	103	249	83	55	49
30	Slocum Ave. - E.Confederate Avenue to Baltimore Pike	3322	1.14	925	203	296	195	385	84	123	81
42	So. Sickles Ave. - Warren Avenue to Wheatfield Road	3314	0.49	523	315	314	276	94	56	56	49
25	Buford Avenue - Reynolds Ave to Mummasburg Rd. **	3324	0.64				497				116
Note: AADT -- Annual Average Daily Traffic								4247	4190	3988	2670

VMT-- Vehicle Miles of Travel

*VMT differ from the 1994 Report based on the updated traffic linkage and mileage.

** Roadway segments were refined to provide more accurate representation of traffic use.

GETTYSBURG NATIONAL MILITARY PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
33010	Hancock Ave.- North of Pleasonton Avenue					1078	828	Self
33030	W.Confederate Ave. - Wheatfield Rd. to Pa.Hwy.116					1025	748	Self
3311	United States Ave. - Hancock Avenue to U.S Hwy. 15 Bus Rt.	8/28/2004	728	0.6390	0.49086	465	357	33010
3312	Wheatfield Rd. - Taneytown Road to U.S Hwy. 15 Bus Rt.	8/28/2004	1886	0.6390	0.49086	1205	926	33010
3313	So. Confederate Ave. - Wheatfield Road to Warren Avenue	8/28/2004	1138	0.6390	0.49086	727	559	33010
3314	Warren Ave. - Sedgwick Avenue to Crawford Ave.	8/28/2004	563	0.6390	0.49086	360	276	33010
3315	So. Confederate Ave. - Warren Avenue to U.S. Hwy. 15 Bus Rt.	8/28/2004	988	0.7069	0.51569	698	510	33030
3316	W.Confederate Ave. - U.S. Hwy. 15 Bus Rt to Wheatfield Rd.	8/28/2004	1063	0.7069	0.51569	751	548	33030
3317	Wheatfield Rd. - U.S Hwy. 15 Bus Rt. to W.Confederate Ave.	8/28/2004	1724	0.7069	0.51569	1219	889	33030
3318	Reynolds Ave. - Pa. Hwy. 116 to U.S Hwy. 30	8/28/2004	672	0.7069	0.51569	475	347	33030
3319	Reynolds Ave. - U.S Hwy. 30 to Buford Avenue	8/28/2004	1918	0.7069	0.51569	1356	989	33030
3320	Howard Ave. - Mummasburg Road to U.S Hwy. 15 Bus. Rt.	8/28/2004	418	0.7069	0.51569	295	216	33030
3321	E.Confederate Ave. - Park Boundary to Slocum Avenue	8/28/2004	210	0.6390	0.49086	134	103	33010
3322	Slocum Ave. - E.Confederate Avenue to Baltimore Pike	8/28/2004	398	0.6390	0.49086	254	195	33010
3323	Sedgwick Ave. - United States Avenue to Wheatfield Road	8/28/2004	546	0.6390	0.49086	349	268	33010
3324	Buford Avenue - Reynolds Ave to Mummasburg Rd.	8/28/2004	964	0.7069	0.51569	681	497	33030

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.

GETTYSBURG NATIONAL MILITARY PARK

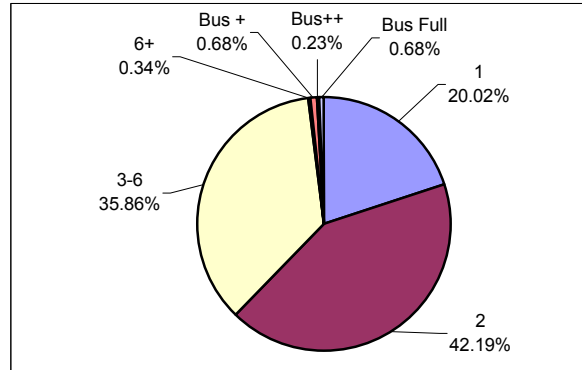
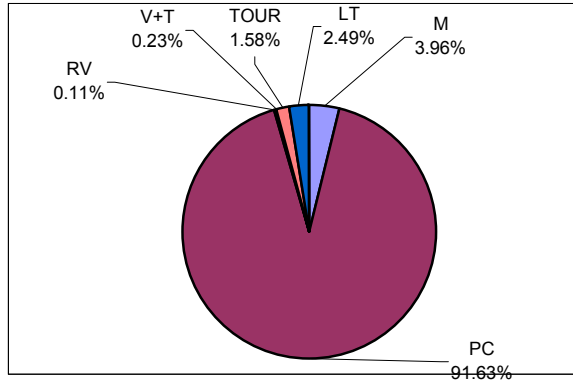
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

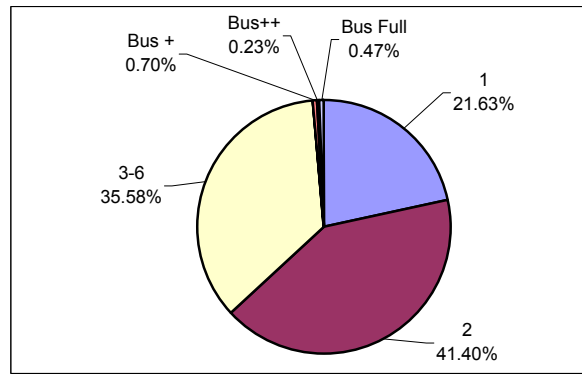
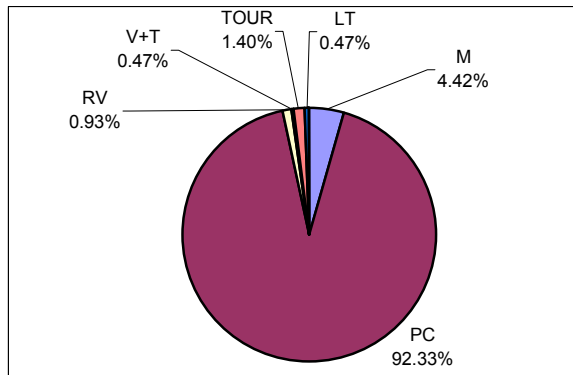
Location: STATION 33010

Location: STATION 33010



Location: STATION 3318

Location: STATION 3318



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

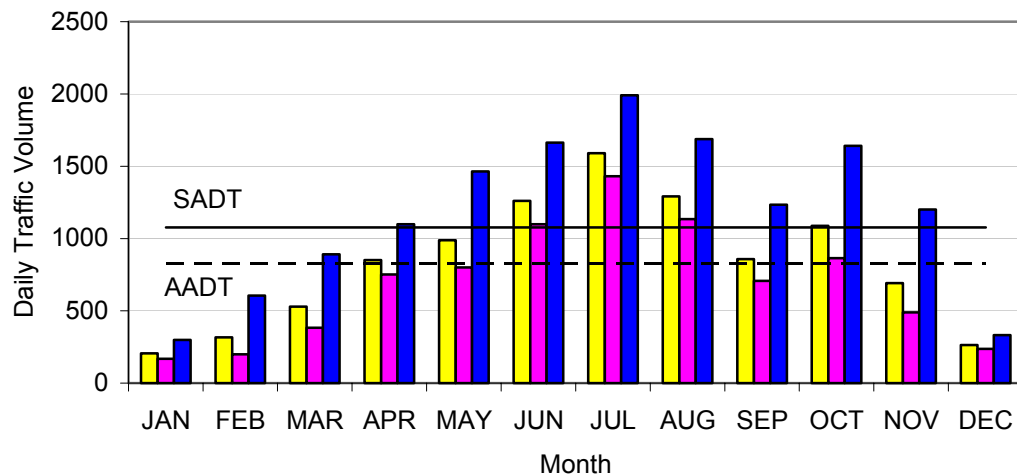
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GETTYSBURG NATIONAL MILITARY PARK

Station: 33010 Hancock Ave.- North of Pleasonton Avenue

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	2004	205	168	299	2.7695	3.6054
2	2004	316	200	606	1.3665	1.7789
3	2004	528	383	892	0.9283	1.2085
4	2004	852	753	1100	0.7528	0.9800
5	2004	990	801	1464	0.5656	0.7363
6	2004	1261	1100	1663	0.4979	0.6482
7	2004	1591	1431	1991	0.4159	0.5414
8	2004	1293	1135	1687	0.4909	0.6390
9	2003	858	708	1234	0.6711	0.8736
10	2003	1088	866	1642	0.5043	0.6565
11	2003	692	489	1201	0.6895	0.8976
12	2003	263	236	331	2.5018	3.2568
Annual Average Daily Traffic (AADT)				828		
Annual Average Weekday Traffic (AAWDT)				689		
Annual Average Weekend Traffic (AAWET)				1176		
Seasonal Average Daily Traffic (SADT)				1078		

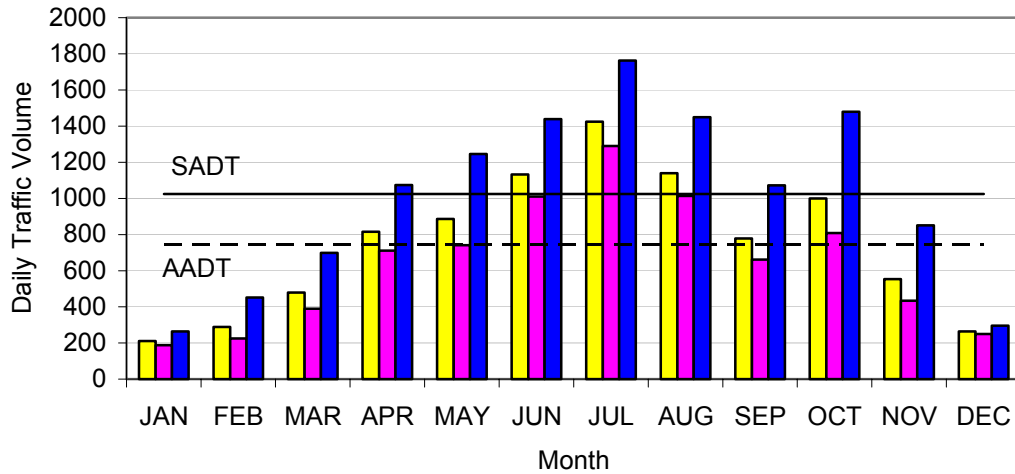


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

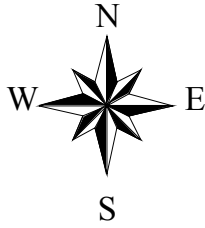
GETTYSBURG NATIONAL MILITARY PARK

Station: 33030 W.Confederate Ave. - Wheatfield Rd. to Pa.Hwy.116

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	2004	210	188	264	2.8324	3.8826
2	2004	289	225	451	1.6580	2.2727
3	2004	479	390	700	1.0682	1.4643
4	2004	816	712	1075	0.6956	0.9535
5	2004	886	741	1246	0.6001	0.8226
6	2004	1133	1011	1439	0.5196	0.7123
7	2004	1425	1290	1763	0.4241	0.5814
8	2004	1139	1015	1450	0.5157	0.7069
9	2003	779	662	1072	0.6975	0.9562
10	2003	1000	808	1479	0.5056	0.6930
11	2003	554	434	852	0.8776	1.2031
12	2003	263	249	296	2.5262	3.4628
Annual Average Daily Traffic (AADT)				748		
Annual Average Weekday Traffic (AAWDT)				644		
Annual Average Weekend Traffic (AAWET)				1007		
Seasonal Average Daily Traffic (SADT)				1025		

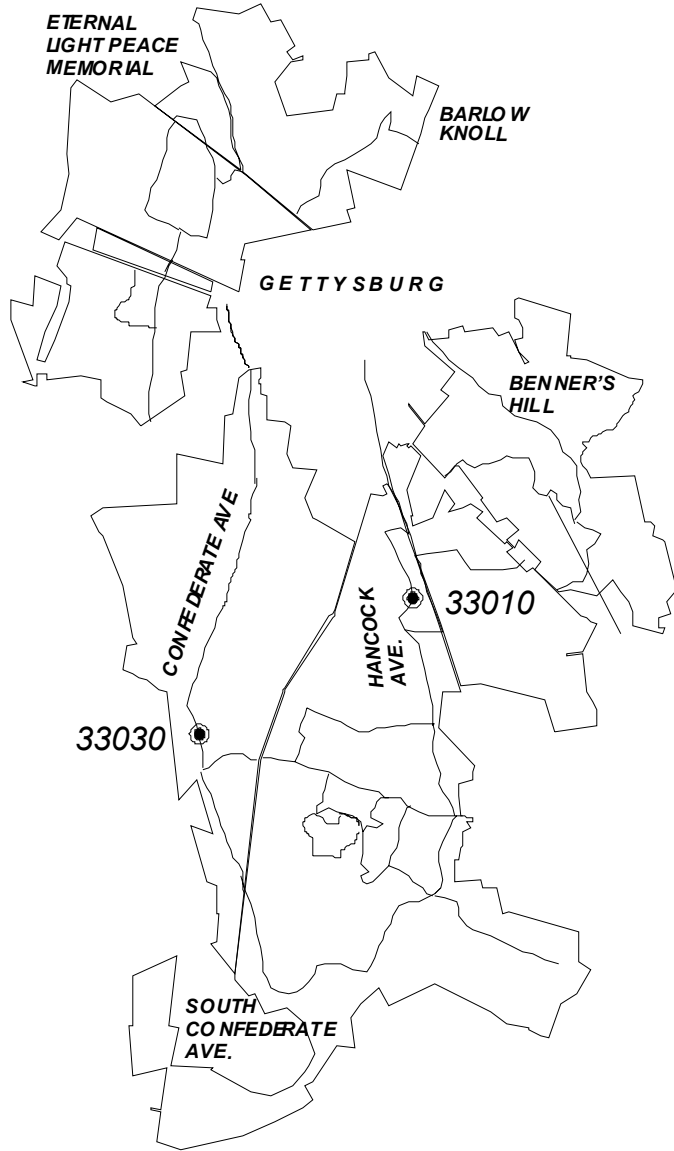


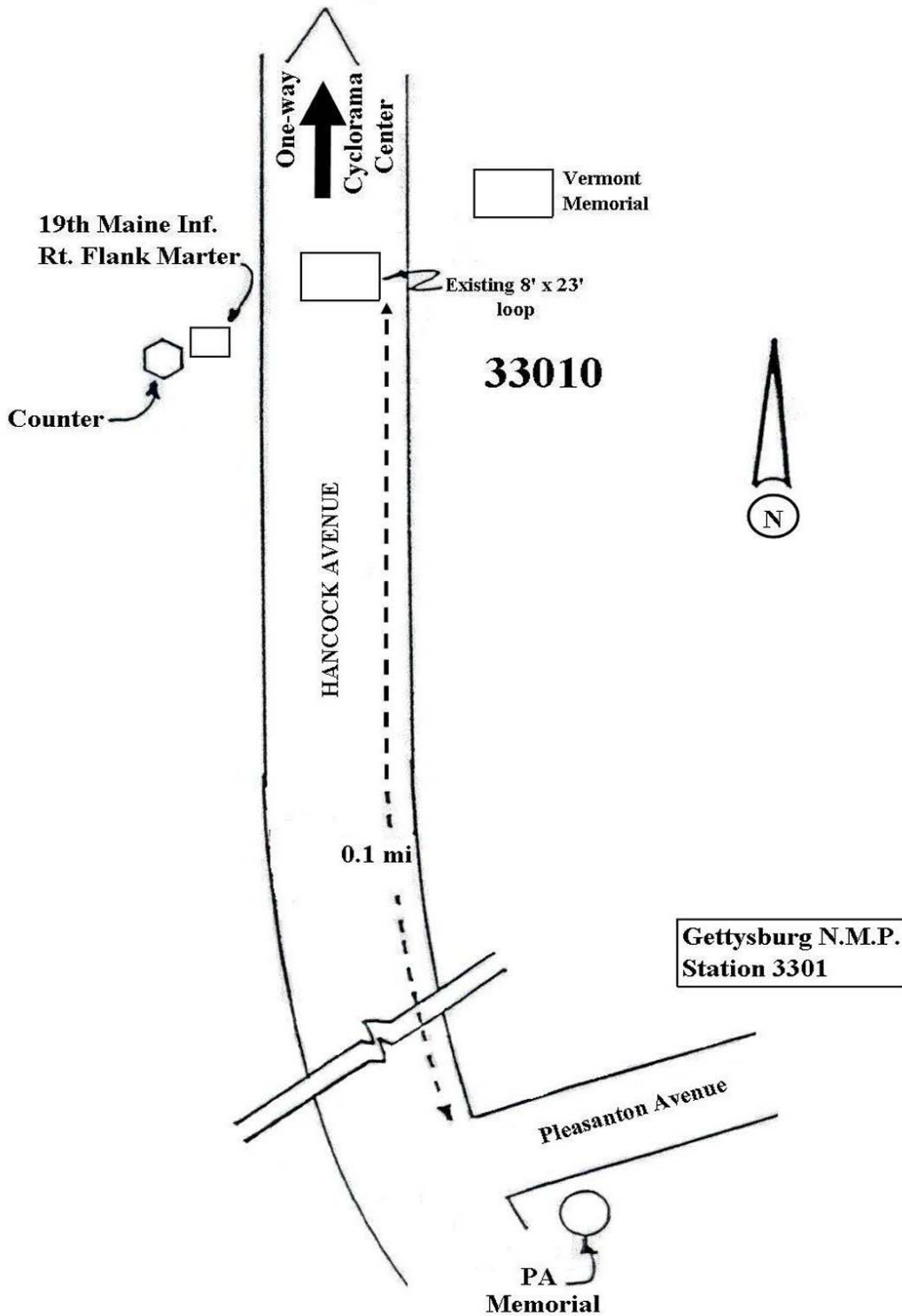
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

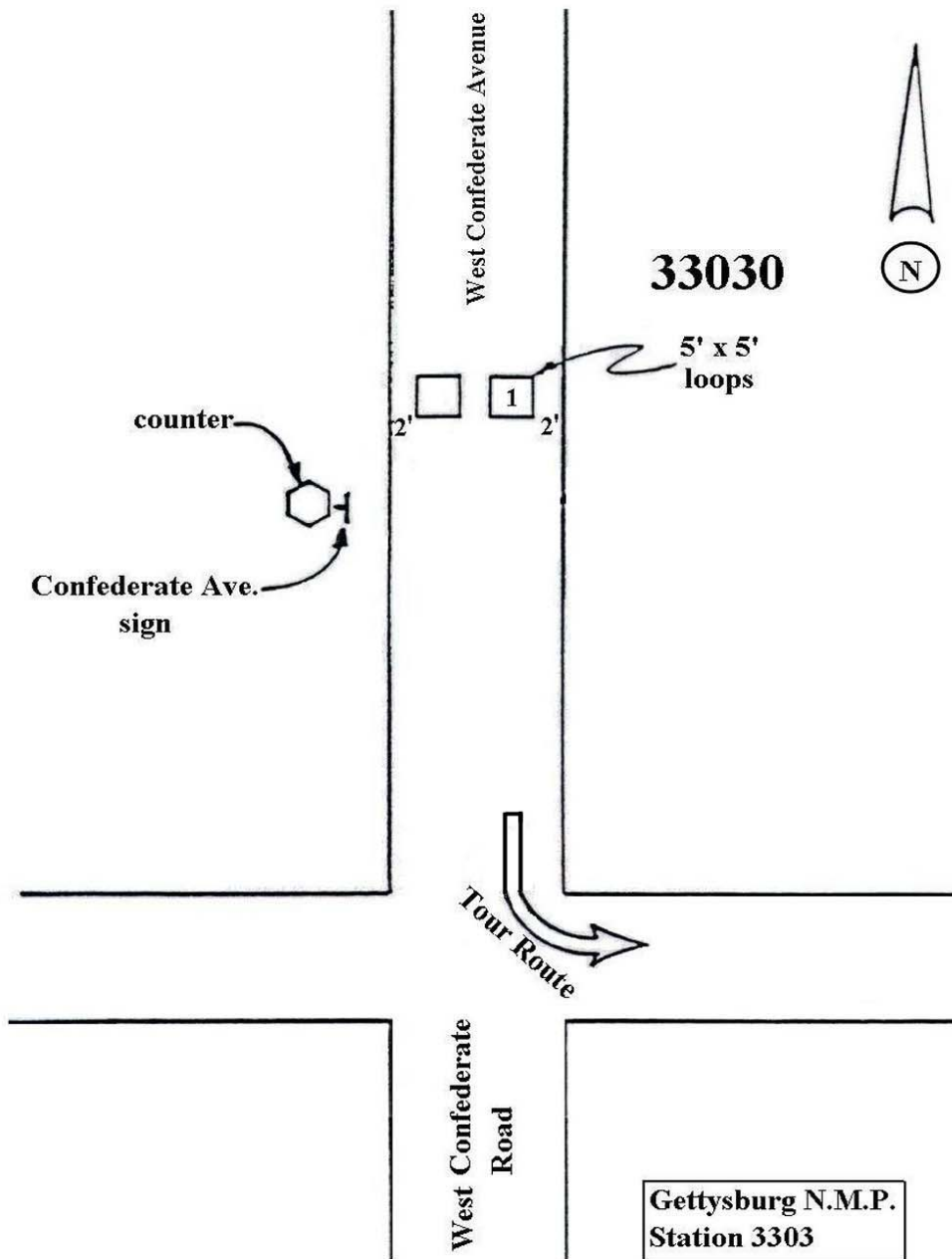


Gettysburg National Military Park

Pennsylvania
U.S. Department of Interior
NATIONAL PARK SERVICE

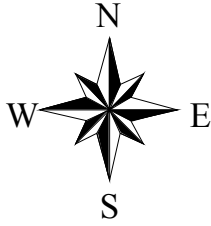






Glacier National Park Traffic Package

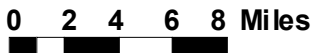
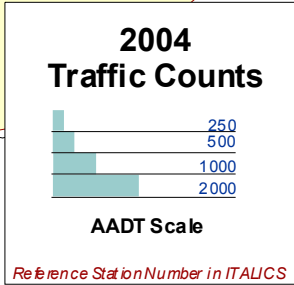
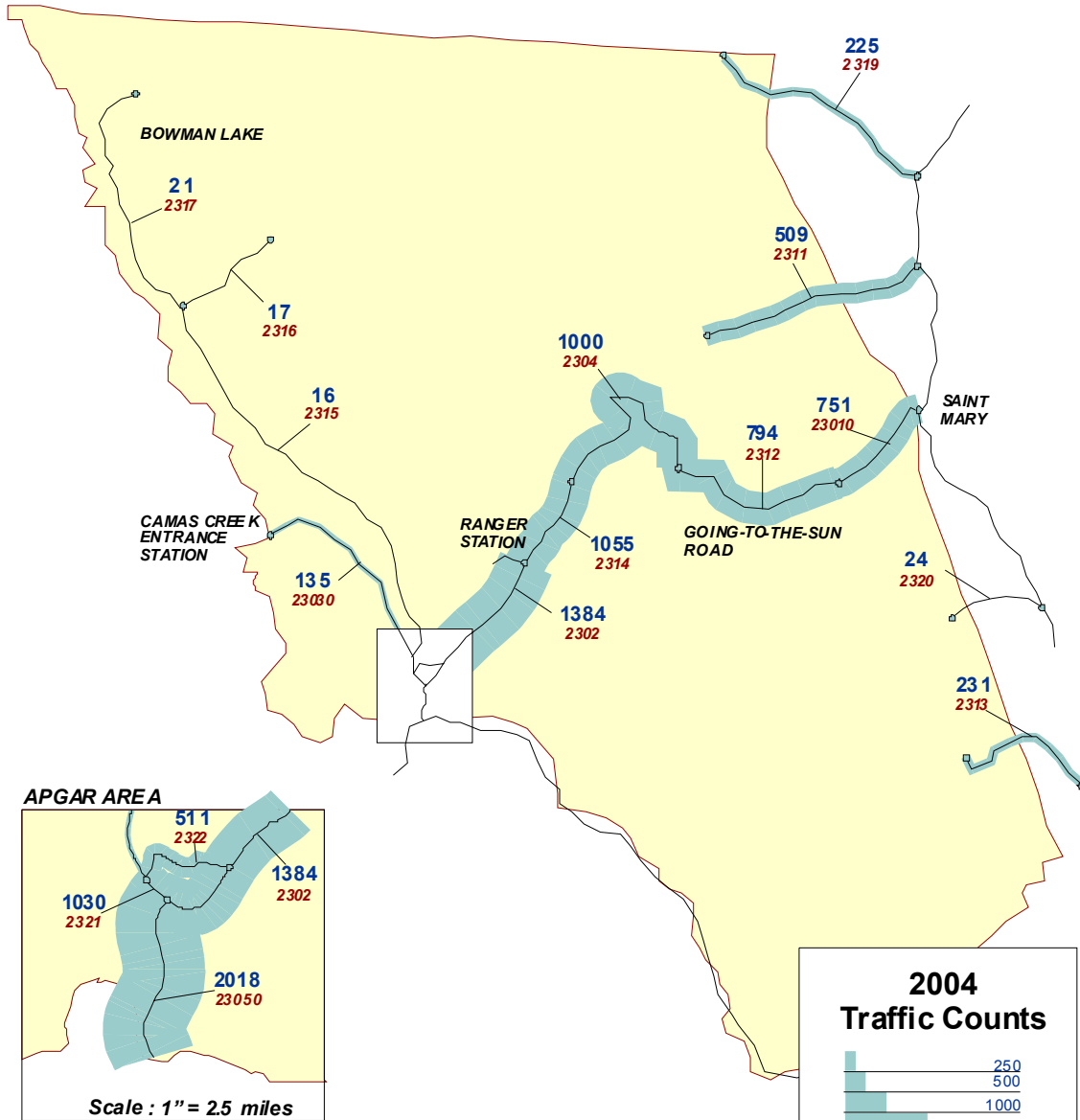




Glacier National Park

Montana

U.S. Department of Interior
NATIONAL PARK SERVICE



GLACIER NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	Going to the Sun Rd. - West Glacier Entrance to Camas Rd.	23050	1.72	1272	1683	1793	2018	799	1057	1126	1267
10	Going to the Sun Rd. - Camas Rd. to Lake McDonald Lodge	2302	10.38	915	1214	1672	1384	3467	4599	6335	5244
10	Going to the Sun Rd. - Lake McDonald Lodge to Avalanche Cr.	2314	4.18	759	877	1277	1055	1158	1338	1948	1610
10	Going to the Sun Rd. - Avalanche Cr. to Logan Pass Summit	2304	15.48	707	992	1222	1000	3995	5605	6905	5650
10	Going to the Sun Rd. - Logan Pass Summit to Rising Sun	2312	11.89	580	900	914	794	2517	3906	3967	3446
10	Going to the Sun Rd. - Rising Sun to St.Mary Entrance	23010	6.14	856	944	1032	751	1918	2116	2313	1683
11	Camas Rd. - Going to the Sun Rd. to West Park Bdry.	23030	11.66	154	184	262	135	655	783	1115	575
12	Two Medicine Rd. - East Park Bdry. to Two Medicine Lake	2313	4.23	138	182	183	231	213	281	283	357
13	Chief Mtn Hwy. - East Park Bdry. to Canadian Bdry.	2319	3.55	231	395	246	225	299	512	319	292
14	Many Glacier Rd. - East Park Bdry. to Swiftcurrent	2311	7.54	353	434	452	509	971	1194	1244	1401
100	North Fork Rd. - Camas Rd. to Polebridge	2315	26.33	15	56	58	16	144	538	557	154
100	North Fork Rd. - Polebridge to Kintla Lake	2317	14.03	17	34	34	21	87	174	174	108
101	Apgar Loop - Camas Rd to Apgar Village	2321	0.27	703	993	1039	1030	69	98	102	102
101	Apgar Loop - Apgar Village to Going to the Sun Rd.	2322	0.84	341	291	496	511	105	89	152	157
219	Cut Bank Rd. - East Park Bdry to Cut Bank	2320	1.38	19	22	29	24	10	11	15	12
221	Bowman Lake Rd. - North Fork Rd. to Bowman Lake	2316	5.91	27	68	98	17	58	147	211	37
12	Two Medicine Rd. - Mont.Hwy. 49 to East Park Bdry.	2313	2.98	138	182	183	231	150	198	199	251
13	Chief Mtn Hwy. - U.S Hwy.89 to East Park Bdry.	2319	10.67	231	395	246	225	900	1538	958	876
14	Many Glacier Rd. - U.S. Hwy. 89 to East Park Bdry.	2311	4.86	353	434	452	509	626	770	802	903
219	Cut Bank Rd. - U.S. Hwy 89 to East Park Bdry	2320	3.81	19	22	29	24	26	31	40	33

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

18168 24985 28764 24155

GLACIER NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
23010	Going to the Sun Rd. - Rising Sun to St.Mary Entrance					2034	751	Self
23030	Camas Rd. - Going to the Sun Rd. to West Park Bdry.					324	135	Self
23050	Going to the Sun Rd. - West Glacier Entrance to Camas Rd.					4908	2018	Self
2302	Going to the Sun Rd. - Camas Rd. to Lake McDonald Lodge	7/29/2004	4400	0.7648	0.31452	3365	1384	23050
2304	Going to the Sun Rd. - Avalanche Cr. to Logan Pass Summit	7/29/2004	3180	0.7648	0.31452	2432	1000	23050
2311	Many Glacier Rd.- Swiftcurrent to U.S 89	7/29/2004	1829	0.75278	0.2780	1377	509	23010
2312	Going to the Sun Rd. - Logan Pass Summit to Rising Sun	7/29/2004	2855	0.75278	0.2780	2149	794	23010
2313	Two Medicine Rd. - Mont.Hwy. 49 to Two Medicine Lake	7/29/2004	830	0.75278	0.2780	625	231	23010
2314	Going to the Sun Rd. - Lake McDonald Lodge to Avalanche Cr.	7/29/2004	3794	0.75278	0.2780	2856	1055	23010
2315	North Fork Rd. - Camas Rd. to Polebridge	7/29/2004	47	0.8161	0.33879	38	16	23030
2316	Bowman Lake Rd. - North Fork Rd. to Bowman Lake	7/29/2004	50	0.8161	0.33879	41	17	23030
2317	North Fork Rd. - Polebridge to Kintla Lake	7/29/2004	63	0.8161	0.33879	51	21	23030
2319	Chief Mtn Hwy. - U.S Hwy.89 to Canadian Bdry.	7/29/2004	811	0.75278	0.2780	611	225	23010
2320	Cut Bank Rd.- U.S. Hwy 89 to Cut Bank	7/29/2004	76	0.7648	0.31452	58	24	23050
2321	Apgar Loop - Camas Rd to Apgar Village	7/29/2004	3274	0.7648	0.31452	2504	1030	23050
2322	Apgar Loop - Apgar Village to Going to the Sun Rd.	7/29/2004	1624	0.7648	0.31452	1242	511	23050

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.

GLACIER NATIONAL PARK

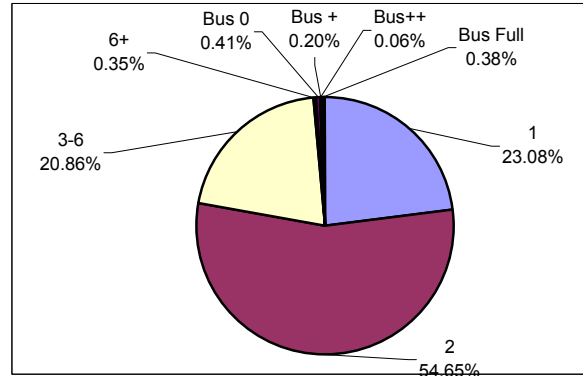
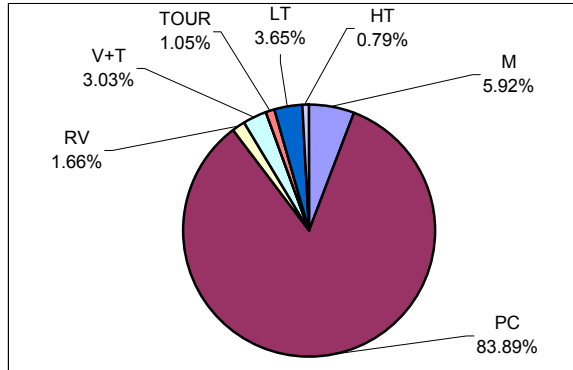
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

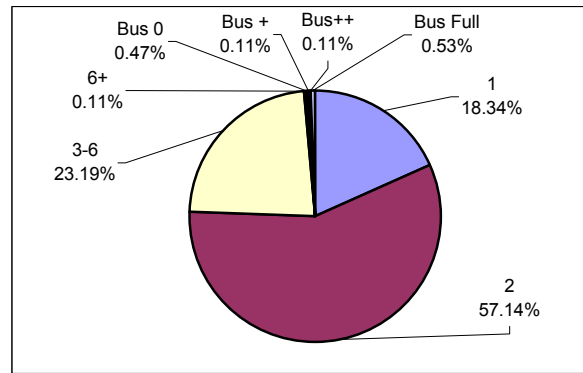
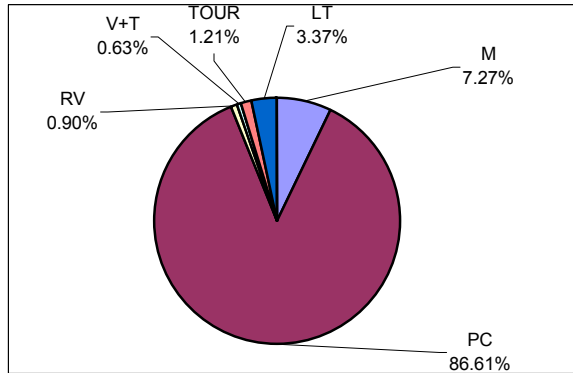
Location: STATION 23050

Location: STATION 23050



Location: STATION 23010

Location: STATION 23010



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

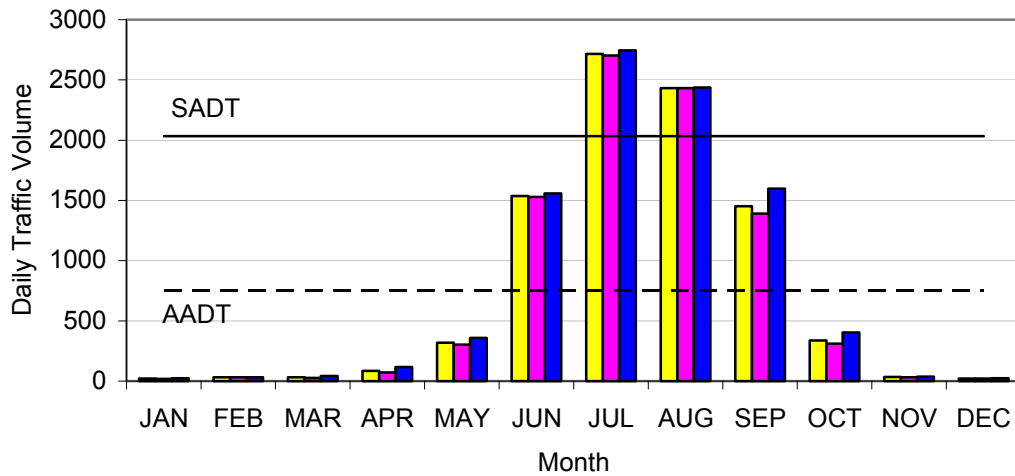
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GLACIER NATIONAL PARK

Station: 23010 Going to the Sun Rd. - Rising Sun to St.Mary Entrance

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	2004	20	18	24	41.7361	113.0000
2	2004	32	32	31	23.4766	63.5625
3	2004	31	27	43	27.8241	75.3333
4	2004	85	73	116	10.2911	27.8630
5	2004	319	303	359	2.4794	6.7129
6	2004	1537	1528	1558	0.4917	1.3312
7	2004	2715	2702	2746	0.2780	0.7528
8	2004	2433	2431	2436	0.3090	0.8367
9	2004	1451	1392	1599	0.5397	1.4612
10	2004	337	311	403	2.4156	6.5402
11	2003	34	32	38	23.4766	63.5625
12	2003	21	21	23	35.7738	96.8571
Annual Average Daily Traffic (AADT)				751		
Annual Average Weekday Traffic (AAWDT)				739		
Annual Average Weekend Traffic (AAWET)				781		
Seasonal Average Daily Traffic (SADT)				2034		

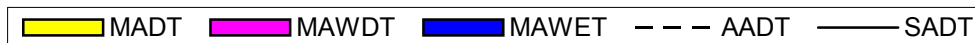
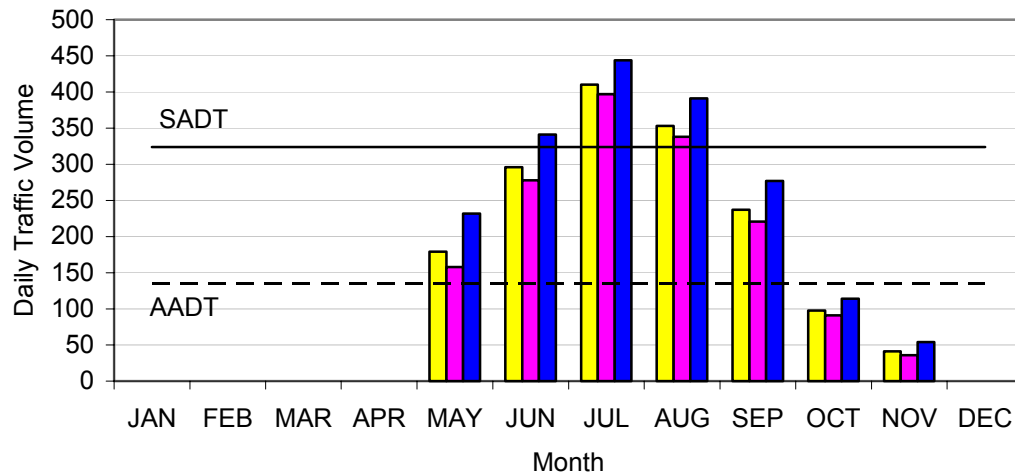


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GLACIER NATIONAL PARK

Station: 23030 Camas Rd. - Going to the Sun Rd. to West Park Bdry.

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	C	0	0	0	0.0000	0.0000
2	C	0	0	0	0.0000	0.0000
3	C	0	0	0	0.0000	0.0000
4	C	0	0	0	0.0000	0.0000
5	2004	179	158	232	0.8513	2.0506
6	2004	296	278	341	0.4838	1.1655
7	2004	410	397	444	0.3388	0.8161
8	2004	353	338	391	0.3979	0.9586
9	2004	237	221	277	0.6086	1.4661
10	2004	98	91	114	1.4780	3.5604
11	2003	41	36	54	3.7361	9.0000
12	C	0	0	0	0.0000	0.0000
Annual Average Daily Traffic (AADT)				135		
Annual Average Weekday Traffic (AAWDT)				127		
Annual Average Weekend Traffic (AAWET)				154		
Seasonal Average Daily Traffic (SADT)				324		

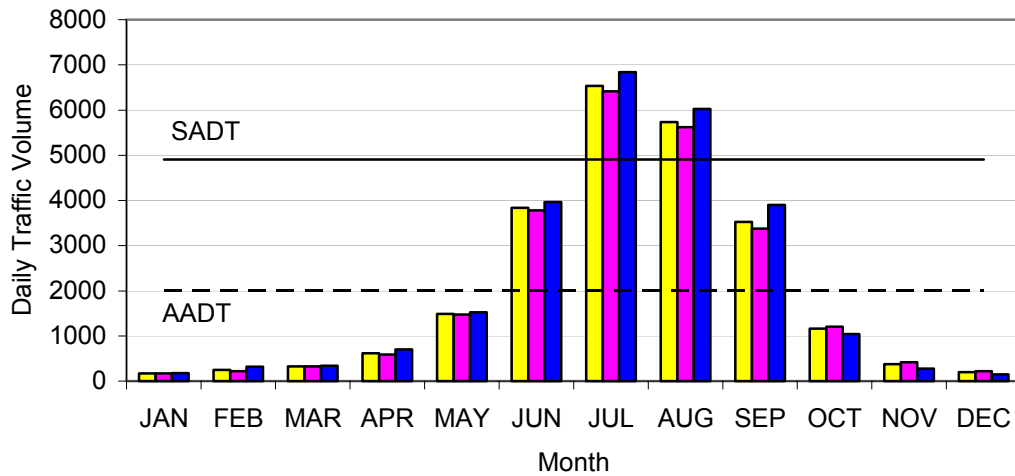


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.
 C = road is seasonally closed to traffic

GLACIER NATIONAL PARK

Station: 23050 Going to the Sun Rd. - West Glacier Entrance to Camas Rd.

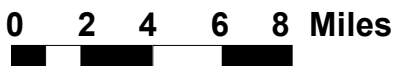
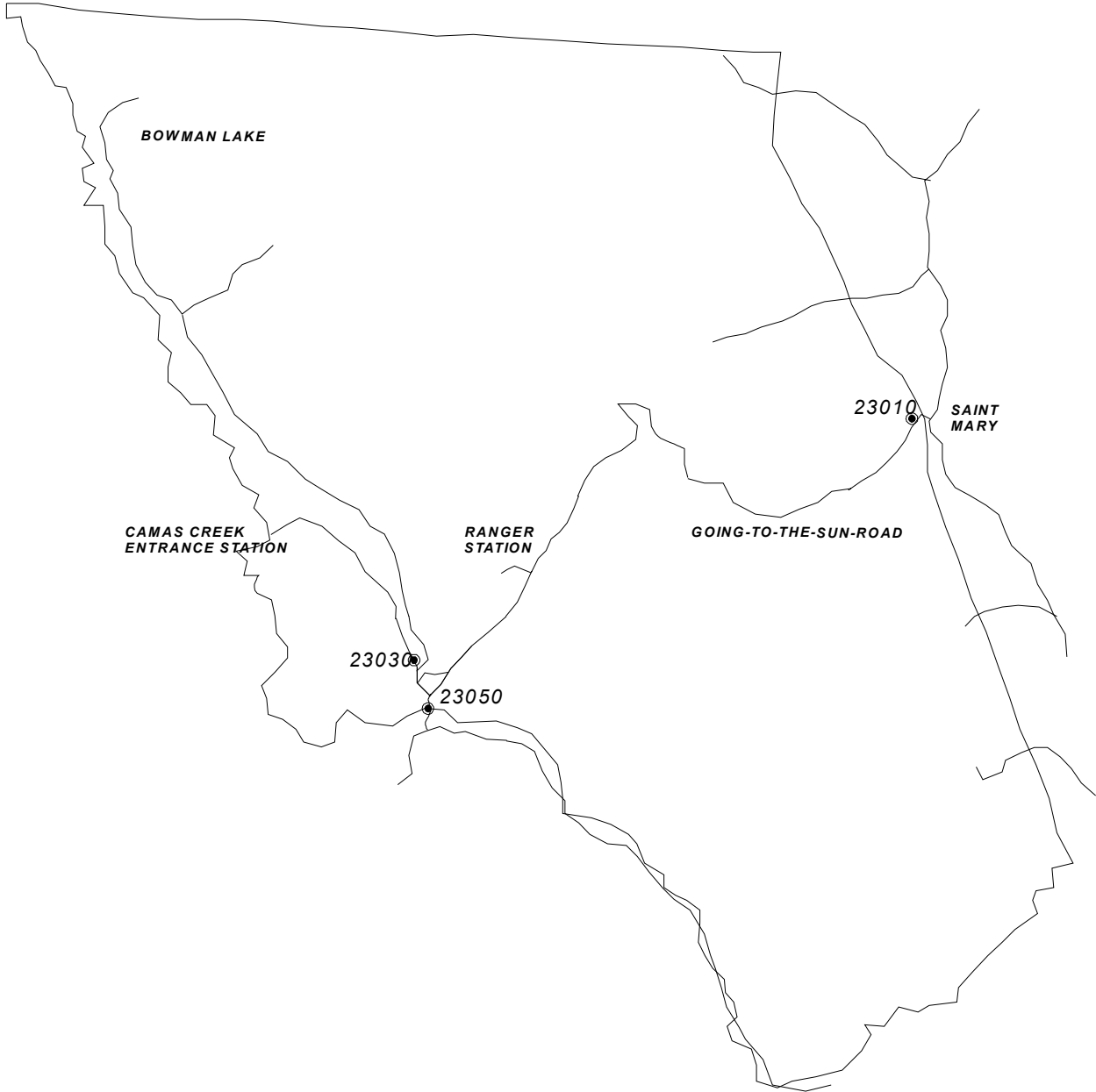
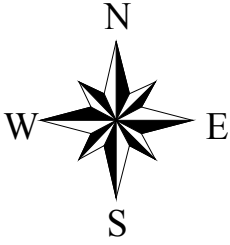
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2004	170	167	176	12.0853	29.3892
2	2004	251	223	322	9.0504	22.0090
3	2004	328	324	341	6.2292	15.1481
4	2004	619	586	700	3.4441	8.3754
5	2004	1486	1470	1524	1.3730	3.3388
6	2004	3834	3783	3962	0.5335	1.2974
7	2004	6537	6417	6837	0.3145	0.7648
8	2004	5736	5619	6027	0.3592	0.8735
9	2004	3526	3375	3904	0.5980	1.4542
10	2004	1158	1204	1042	1.6763	4.0764
11	2003	376	416	275	4.8516	11.7981
12	2003	198	219	148	9.2158	22.4110
Annual Average Daily Traffic (AADT)				2018		
Annual Average Weekday Traffic (AAWDT)				1984		
Annual Average Weekend Traffic (AAWET)				2105		
Seasonal Average Daily Traffic (SADT)				4908		

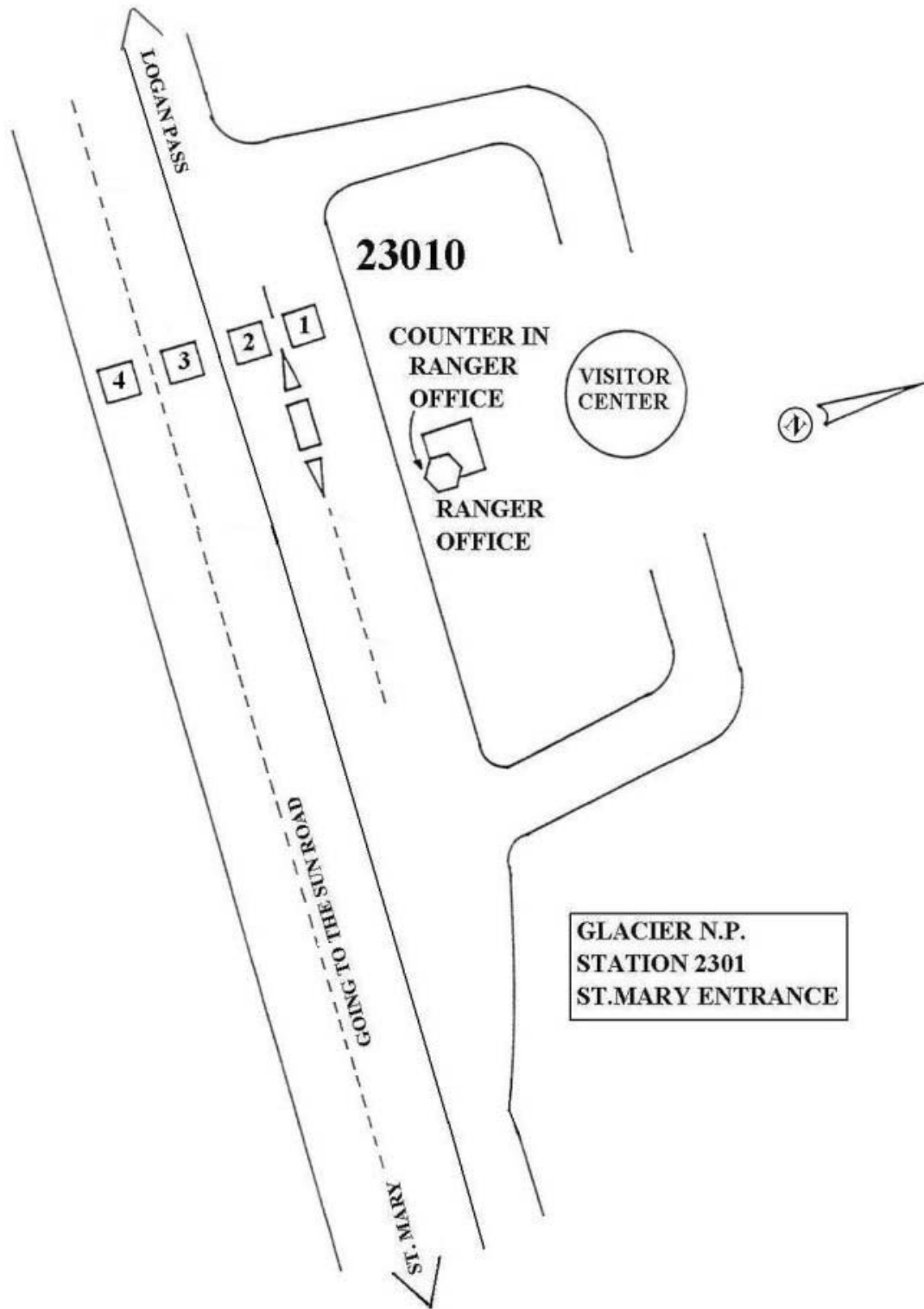


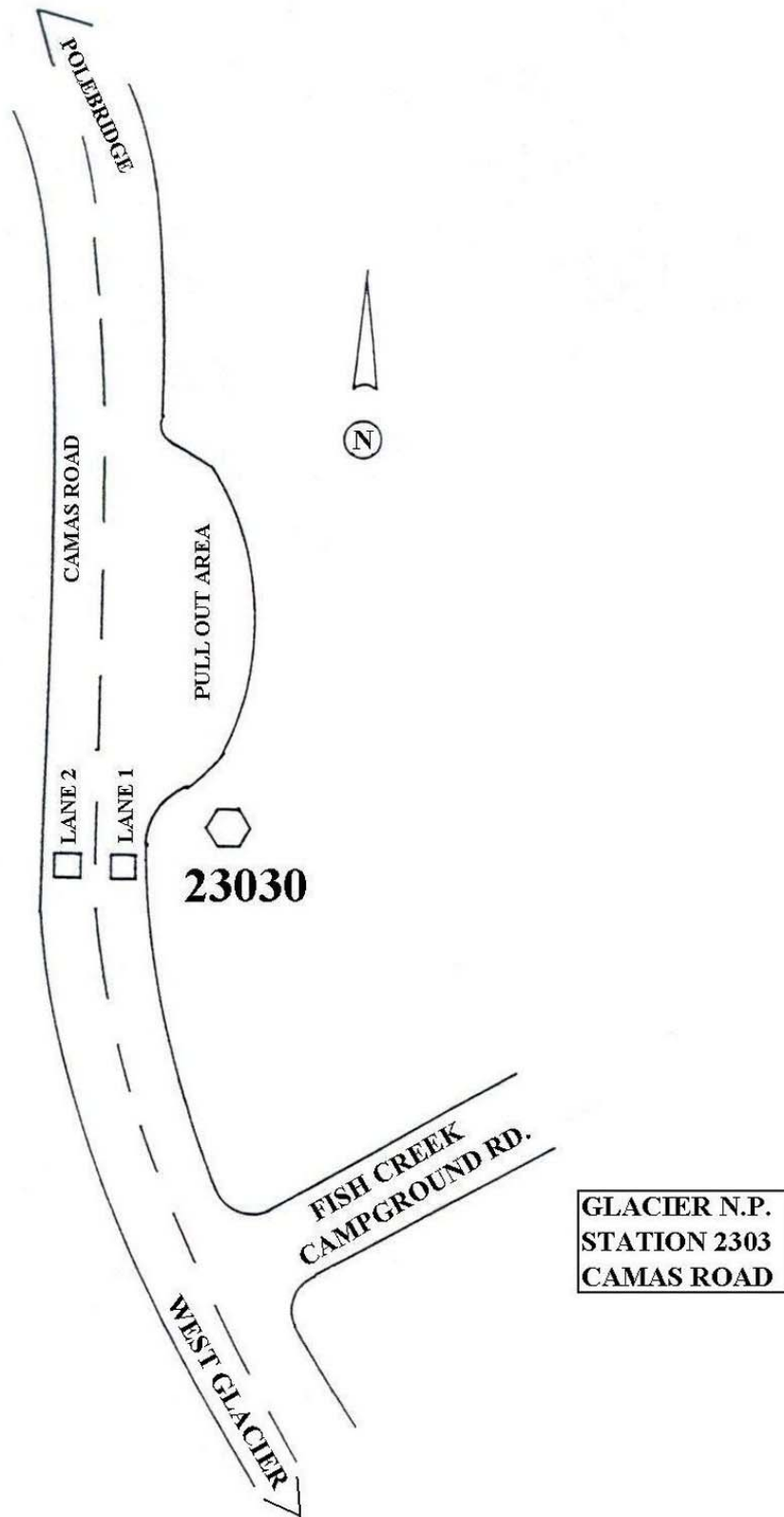
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

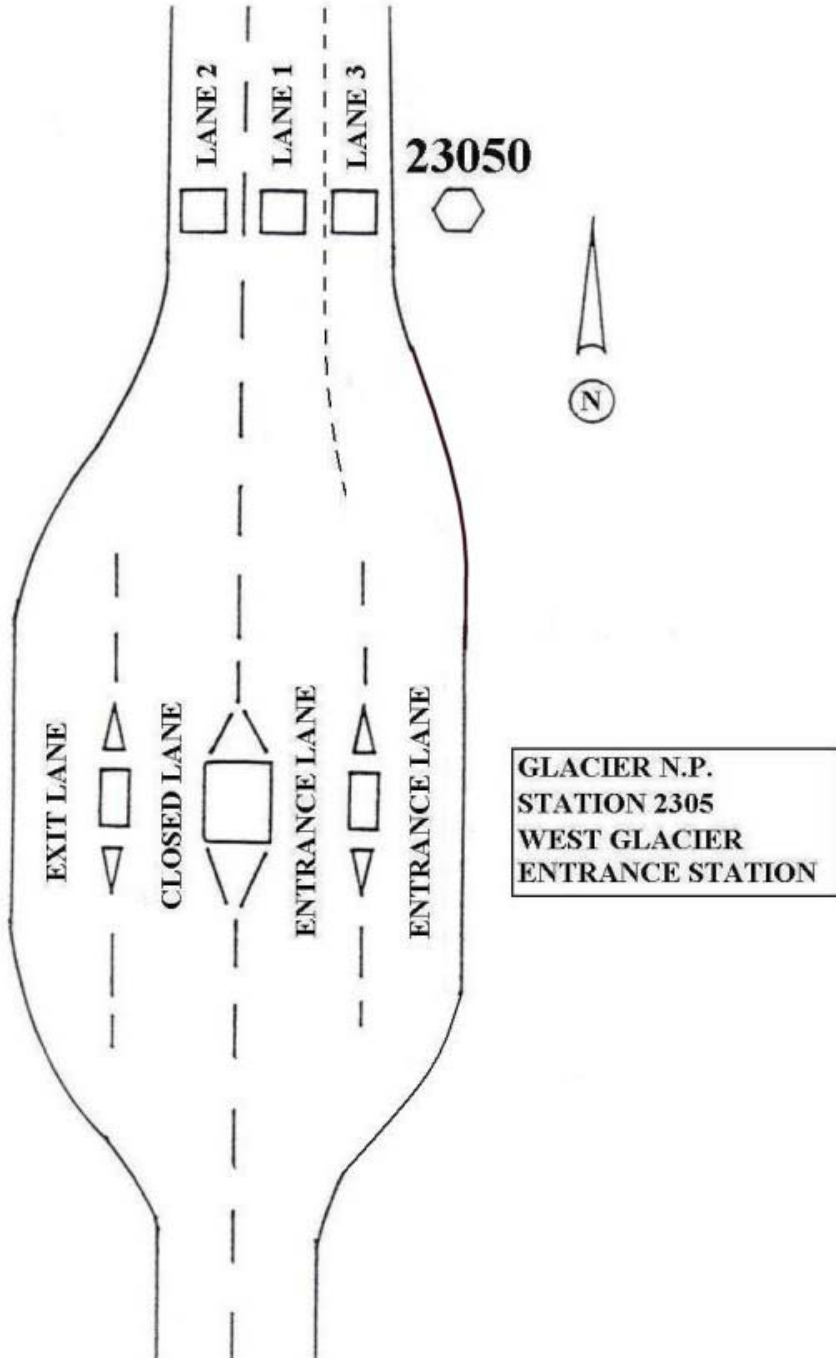
Glacier National Park

Montana
U.S. Department of Interior
NATIONAL PARK SERVICE



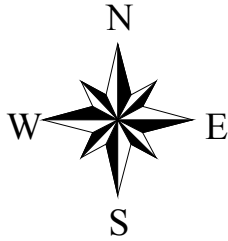






Glen Canyon National Recreation Area Traffic Package

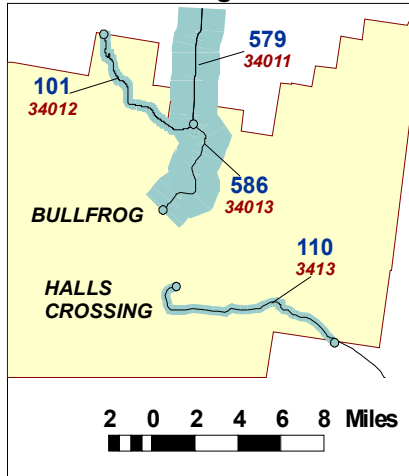




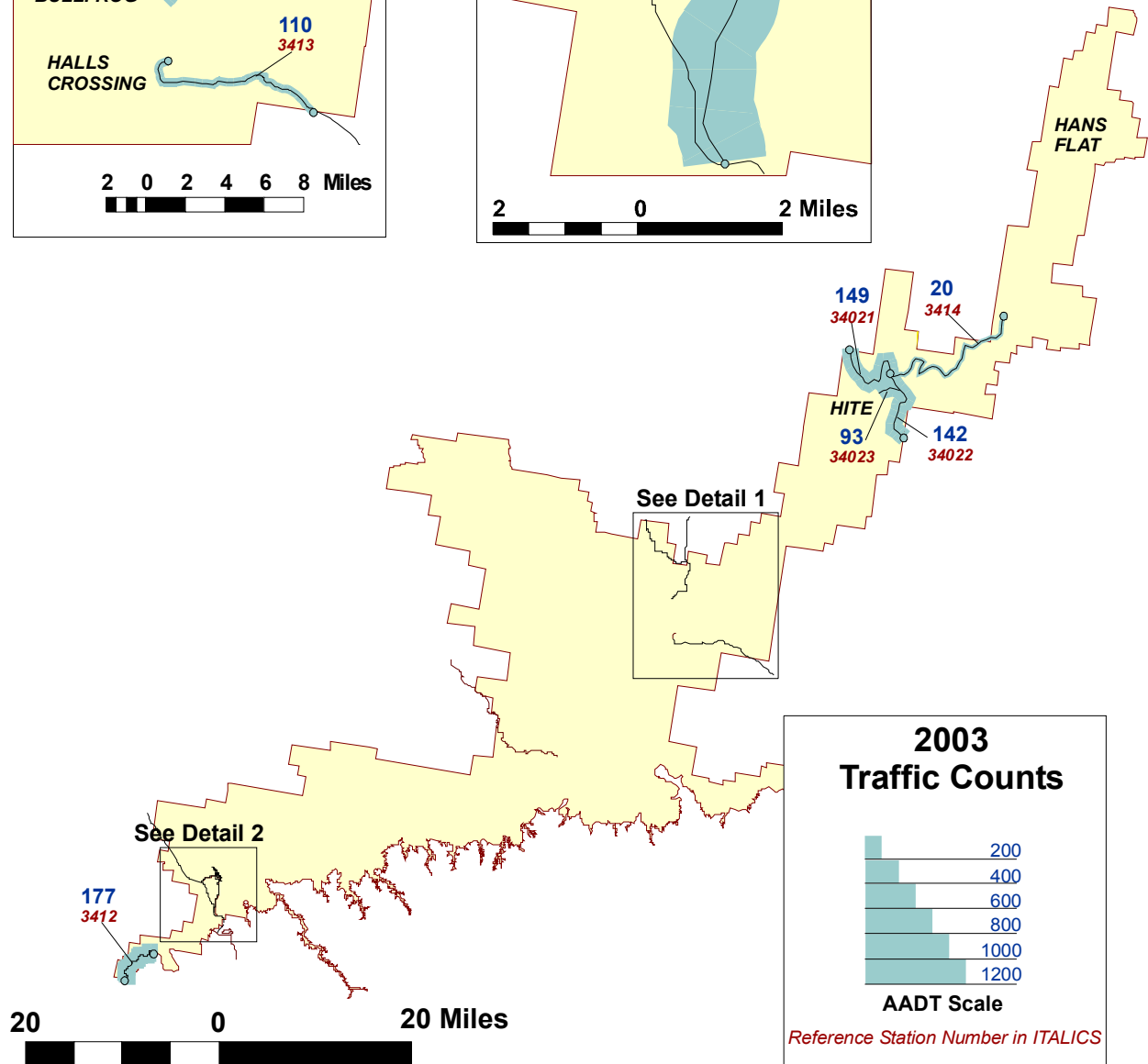
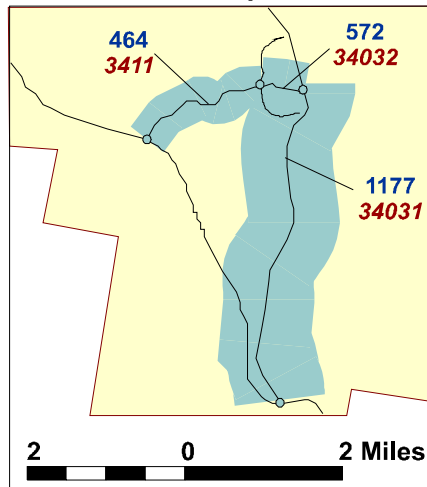
Glen Canyon National Recreation Area

Utah & Arizona
U.S. Department of Interior
NATIONAL PARK SERVICE

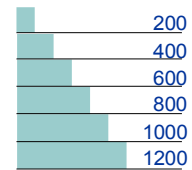
Detail 1: Bullfrog/Halls Crossing



Detail 2: Wahweap Area



2003 Traffic Counts



AADT Scale

Reference Station Number in ITALICS

GLEN CANYON NATIONAL RECREATION AREA TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta.		AADT				VMT(1000's)			
		ID.	Length	1988	1991	1994	2003	1988	1991	1994	2003
3	Wahweap Blvd. - State Line Access Road to Lakeshore Drive	34032	0.78	857	246	1381	572	244	70	393	163
3	Wahweap Blvd. - Jct. U.S. 89 to State Line Access Rd.	3411	1.00	857	246	1381	464	313	90	504	169
1	Lakeshore Drive - Wahweap to Jct. U.S. 89 South of Wahweap	34031	5.06	2233	2166	2704	1177	4124	4000	4994	2174
5	Lees Ferry Access Rd. - Alt. U. S. 89 to Lees Ferry	3412	5.78	50	77	256	177	105	162	540	373
6	Bullfrog Basin Access Rd. - Park Bdry. To Bullfrog	34013	5.25	462	449	478	586	885	860	916	1123
7	Halls Crossing Access Rd. - Park Bdry. To Halls Crossing	3413	9.97	191	109	220	110	695	397	801	400
8	Hite Marina Access Rd. - Utah Hwy. 95 to Hite Marina	34023	2.97	149	170	203	93	162	184	220	101
15	Burr Trail - Bullfrog Basin Access Rd. to No. Park Boundary	34012	6.25	50	55	62	101	114	125	141	230
18	Flint Trail Rd. - Utah Hwy. 95 to Orange Cliffs Rd.	3414	41.11	7	4	2	20	105	60	30	300
	S. H. 95 - N. Boundary to Hite	34021	8.23	200	229	254	149	601	688	763	448
	S. H. 95 - Hite to S. Boundary	34022	6.73	245	229	216	142	602	563	531	349
VMT SUMMARY								7950	7200	9833	5830

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

GLEN CANYON NATIONAL RECREATION AREA

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
34011	Highway 276 North of Burr Trail Road					933	579	Self
34012	Burr Trail - Bullfrog Basin Access Rd. to No. Park Boundary					172	101	Self
34013	Bullfrog Basin Access Rd. - Park Bdry. To Bullfrog					938	586	Self
34021	S. H. 95 - N. Boundary to Hite	6/14/03	378	0.62911	0.3932	238	149	34013
34022	S. H. 95 - Hite to S. Boundary	6/14/03	362	0.62911	0.3932	228	142	34013
34023	Hite Marina Access Rd. - Utah Hwy. 95 to Hite Marina	6/14/03	236	0.62911	0.3932	148	93	34013
34031	Lakeshore Drive - Wahweap to Jct. U.S. 89 South of Wahweap	6/14/03	2994	0.62911	0.3932	1884	1177	34013
34032	Wahweap Blvd. - State Line Access Road to Lakeshore Drive	6/14/03	1526	0.60467	0.37514	923	572	34011
3411	Wahweap Blvd. - Jct. U.S. 89 to State Line Access Rd.	6/14/03	1238	0.60467	0.37514	749	464	34011
3412	Lees Ferry Access Rd. - Alt. U. S. 89 to Lees Ferry	6/14/03	472	0.60467	0.37514	285	177	34011
3413	Halls Crossing Access Rd. - Park Bdry. To Halls Crossing	6/14/03	281	0.6291	0.39319	177	110	34013
3414	Flint Trail Rd. - Utah Hwy. 95 to Orange Cliffs Rd.	6/14/03	50	0.6291	0.39319	31	20	34013

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.

GLEN CANYON NATIONAL RECREATION AREA

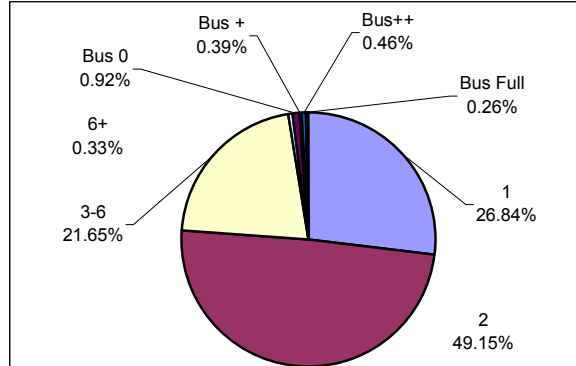
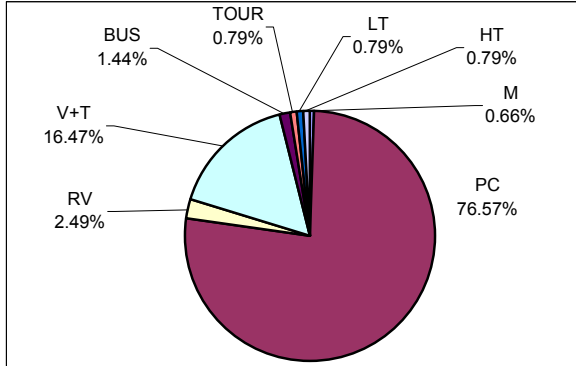
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

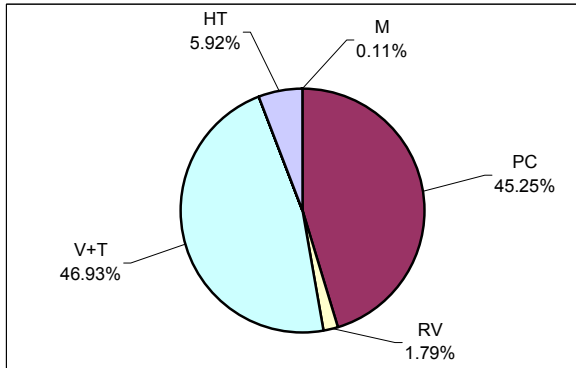
Vehicle Occupancy

Location: STATION 34031

Location: STATION 34031



Location: STATION 34013



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

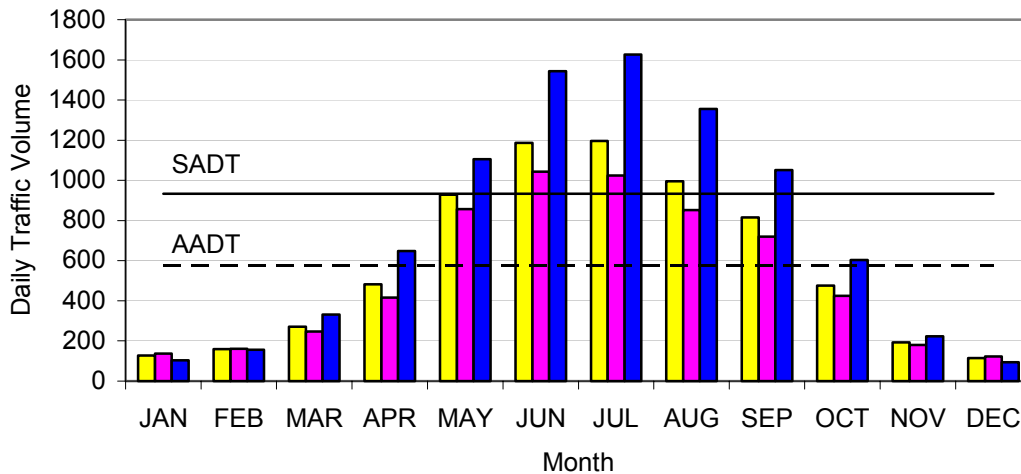
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GLEN CANYON NATIONAL RECREATION AREA

Station: 34011 Highway 276 North of Burr Trail Road

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	2002	127	137	103	5.6197	9.0583
2	2002	160	161	156	3.7105	5.9808
3	2002	271	247	332	1.7435	2.8102
4	2002	483	416	648	0.8933	1.4398
5	2002	928	857	1105	0.5238	0.8443
6	2002	1187	1044	1543	0.3751	0.6047
7	2002	1197	1025	1626	0.3560	0.5738
8	2001	996	852	1356	0.4269	0.6881
9	2002	815	720	1051	0.5507	0.8877
10	2002	476	425	603	0.9599	1.5473
11	2002	192	180	223	2.5957	4.1839
12	2001	114	122	94	6.1578	9.9255
Annual Average Daily Traffic (AADT)				579		
Annual Average Weekday Traffic (AAWDT)				516		
Annual Average Weekend Traffic (AAWET)				737		
Seasonal Average Daily Traffic (SADT)				933		

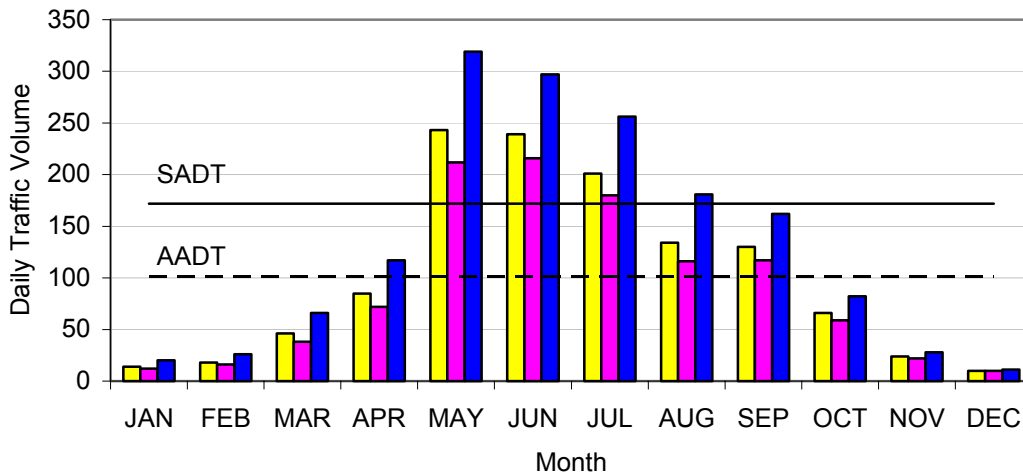


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GLEN CANYON NATIONAL RECREATION AREA

Station: 34012 Burr Trail - Bullfrog Basin Access Rd. to No. Park Boundary

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	2002	14	12	20	5.0417	8.6000
2	2002	18	16	26	3.8782	6.6154
3	2002	46	38	66	1.5278	2.6061
4	2002	85	72	117	0.8618	1.4701
5	2002	243	212	319	0.3161	0.5392
6	2002	239	216	297	0.3395	0.5791
7	2002	201	180	256	0.3939	0.6719
8	2001	134	116	181	0.5571	0.9503
9	2002	130	117	162	0.6224	1.0617
10	2002	66	59	82	1.2297	2.0976
11	2002	24	22	28	3.6012	6.1429
12	2001	10	10	11	9.1667	15.6364
Annual Average Daily Traffic (AADT)				101		
Annual Average Weekday Traffic (AAWDT)				89		
Annual Average Weekend Traffic (AAWET)				130		
Seasonal Average Daily Traffic (SADT)				172		

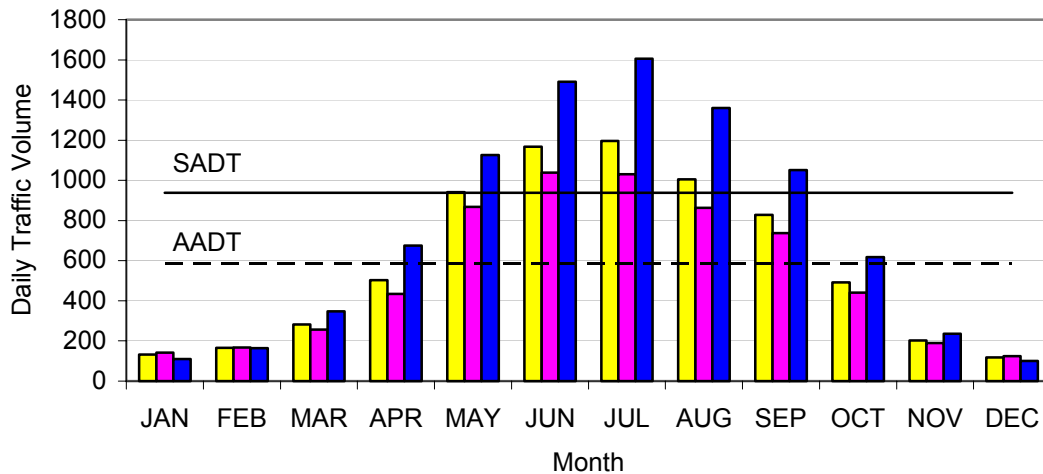


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

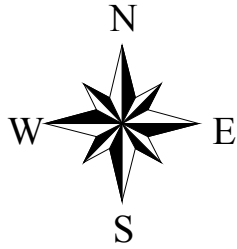
GLEN CANYON NATIONAL RECREATION AREA

Station: 34013 Bullfrog Basin Access Rd. - Park Bdry. To Bullfrog

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	2002	132	141	110	5.3295	8.5273
2	2002	166	167	164	3.5747	5.7195
3	2002	282	256	347	1.6895	2.7032
4	2002	504	435	675	0.8685	1.3896
5	2002	941	868	1126	0.5206	0.8330
6	2002	1168	1038	1491	0.3932	0.6291
7	2002	1196	1031	1606	0.3650	0.5841
8	2001	1005	863	1360	0.4311	0.6897
9	2002	828	738	1051	0.5578	0.8925
10	2002	492	442	618	0.9486	1.5178
11	2002	203	190	235	2.4947	3.9915
12	2001	118	125	100	5.8625	9.3800
Annual Average Daily Traffic (AADT)				586		
Annual Average Weekday Traffic (AAWDT)				525		
Annual Average Weekend Traffic (AAWET)				740		
Seasonal Average Daily Traffic (SADT)				938		



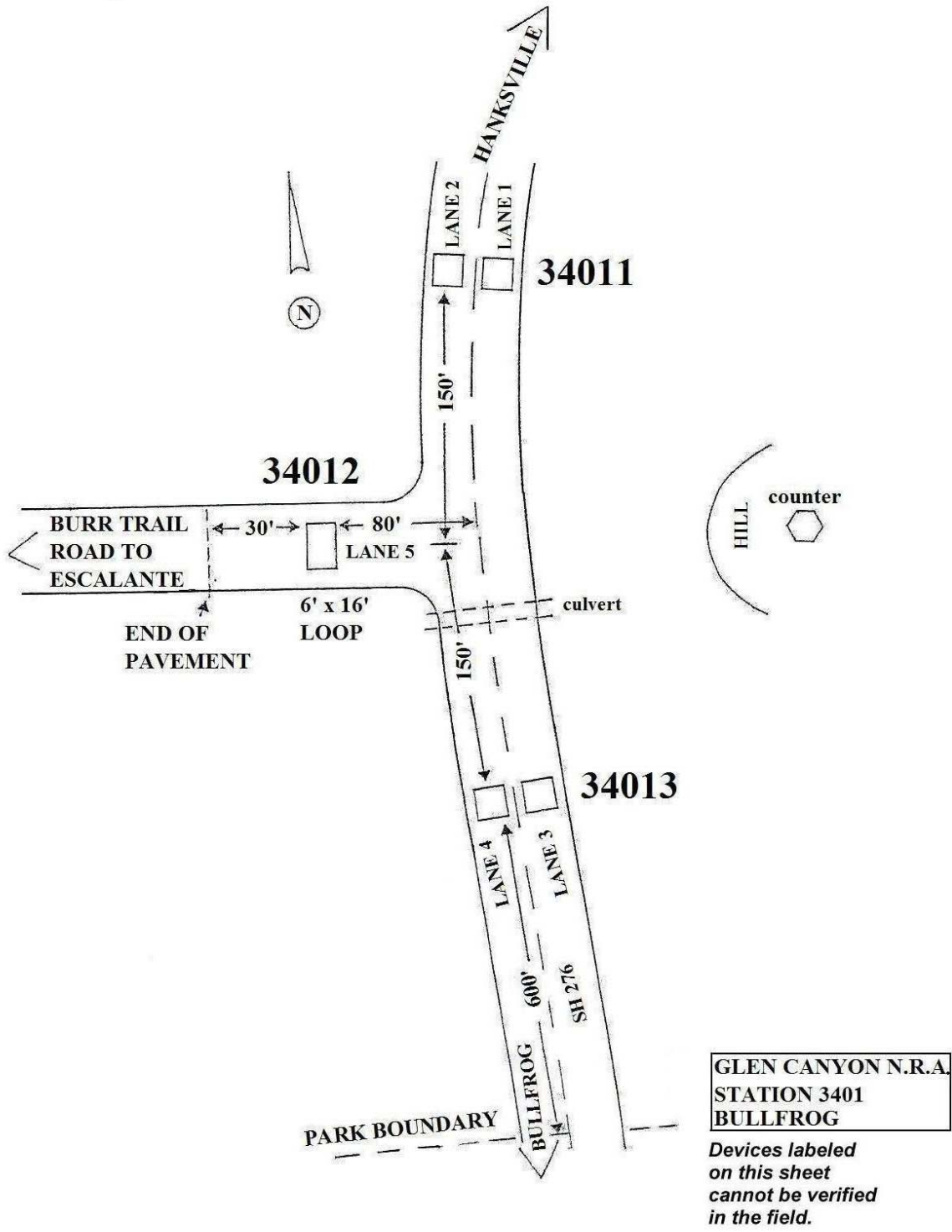
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.



Glen Canyon National Recreation Area

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NATIONAL PARK SERVICE





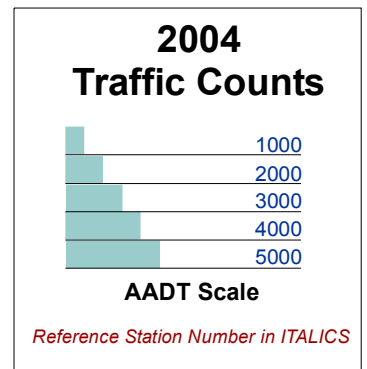
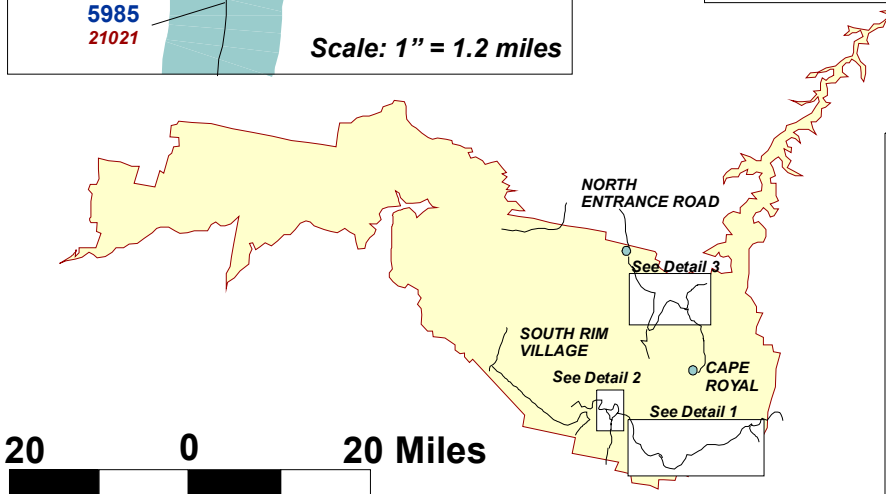
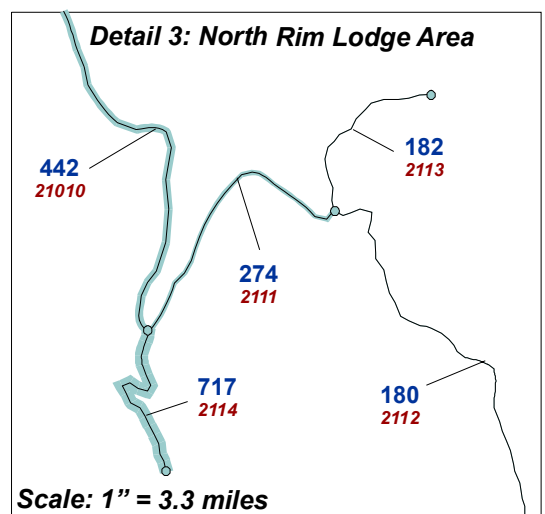
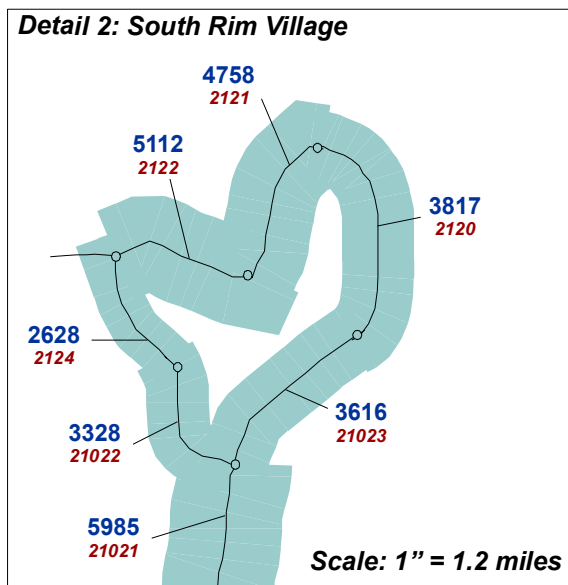
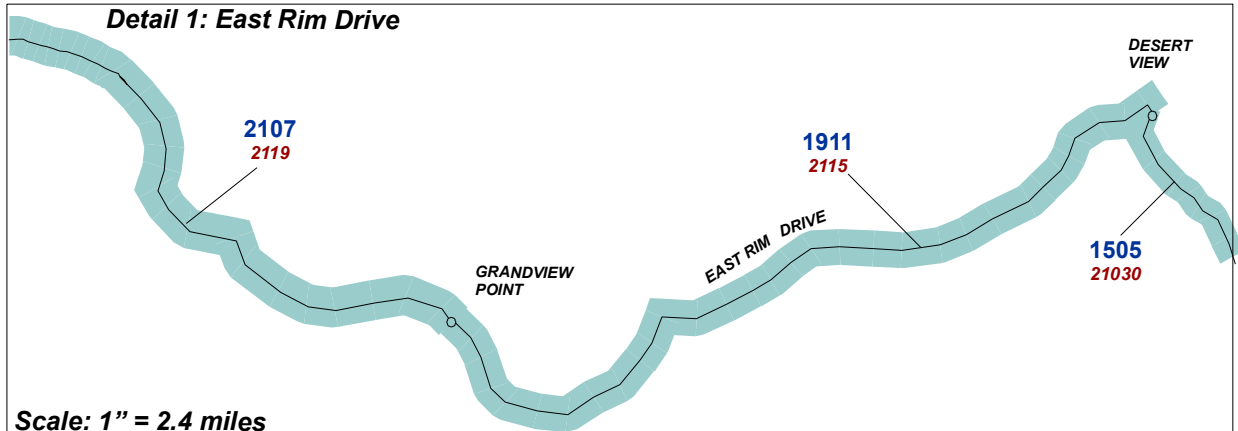
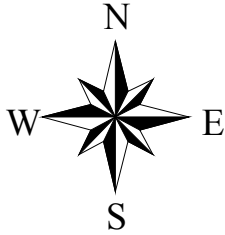
Grand Canyon National Park Traffic Package



Grand Canyon National Park

Arizona

U.S. Department of Interior
NATIONAL PARK SERVICE



GRAND CANYON NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	Point Imperial Rd.- Cape Royal Rd. to Point Imperial	2113	2.64	170	194	216	182	164	187	208	175
11	East Rim Dr.- South Entrance Rd. to Grandview Point Rd.	2119	8.49	1900	2298	2181	2107	5888	7121	6759	6529
11	East Rim Dr.- Grandview Point Rd. to Desert View	2115	13.12	2020	1575	1996	1911	9673	7542	9558	9151
11	East Rim Dr.- Desert View to East Park Bdry.	21030	3.70	1256	1423	1584	1505	1696	1922	2139	2033
12	South Entrance Rd. - South Park Bdry. to Center Rd.	21021	3.28	5011	6206	7404	5985	5999	7430	8864	7165
12	South Entrance Rd. - Center Rd. to East Rim Drive	21023	1.29	4223	4755	5569	3616	1988	2239	2622	1703
12	South Entrance Rd. - East Rim Drive to Yavapai Point	2120	1.33	5350	5175	6648	3817	2597	2512	3227	1853
12	South Entrance Rd. - Yavapai Point to Visitor Center	2121	0.56	5790	5420	6624	4758	1183	1108	1354	973
12	South Entrance Rd. - Visitor Center to Grand Canyon Village	2122	0.94	6210	5615	6274	5112	2131	1927	2153	1754
13	Cape Royal Rd.- North Entrance Rd. to Point Imperial Rd.	2111	5.47	220	265	303	274	439	529	605	547
13	Cape Royal Rd.- Point Imperial Rd. to Cape Royal	2112	14.32	180	199	234	180	941	1040	1223	941
14	North Entrance Rd.- North Park Bdry. to Cape Royal Rd.	21010	9.81	473	516	549	442	1694	1848	1966	1583
14	North Entrance Rd.- Cape Royal Rd. to North Rim Lodge	2114	3.11	590	1034	743	717	670	1174	843	814
16	Center Rd.- South Entrance Rd. to Clinic Road	21022	0.62	1238	1070	1286	3328	280	242	291	753
16	Center Rd.- Clinic Road to Grand Canyon Village	2124	0.99	2000	1280	1146	2628	723	463	414	950
Note: AADT -- Annual Average Daily Traffic								36066	37283	42227	36923
VMT-- Vehicle Miles of Travel											

GRAND CANYON NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
21010	North Entrance Rd.- North Park Bdry. to Cape Royal Rd.					1107	442	Self
21021	South Entrance Rd. - South Park Bdry. to Center Rd.					6758	5985	Self
21023	South Entrance Rd. - Center Rd.to East Rim Drive					4380	3616	Self
2111	Cape Royal Rd.- North Entrance Rd. to Point Imperial Rd.	9/13/2004	662	1.0355	0.41316	686	274	21010
2112	Cape Royal Rd.- Point Imperial Rd. to Cape Royal	9/13/2004	436	1.0355	0.41316	451	180	21010
2113	Point Imperial Rd.- Cape Royal Rd. to Point Imperial	9/13/2004	440	1.0355	0.41316	456	182	21010
2114	North Entrance Rd.- Cape Royal Rd. to North Rim Lodge	9/13/2004	1735	1.0355	0.41316	1797	717	21010
2115	East Rim Dr.- Grandview Point Rd. to Desert View	9/13/2004	2040	1.1350	0.93692	2315	1911	21023
2119	East Rim Dr.- South Entrance Rd. to Grandview Point Rd.	9/13/2004	2249	1.1350	0.93692	2553	2107	21023
2120	South Entrance Rd. - East Rim Drive to Yavapai Point	9/13/2004	4074	1.1350	0.93692	4624	3817	21023
2121	South Entrance Rd. - Yavapai Point to Visitor Center	9/13/2004	5078	1.1350	0.93692	5764	4758	21023
2122	South Entrance Rd. - Visitor Center to Grand Canyon Village	9/13/2004	5456	1.1350	0.93692	6193	5112	21023
2124	Center Rd.- Clinic Road to Grand Canyon Village	9/13/2004	2826	1.0502	0.93011	2968	2628	21021
21022	Center Rd.- South Entrance Rd. to Clinic Road	9/13/2004	3578	1.0502	0.93011	3758	3328	21021
21030	East Rim Dr.- Desert View to East Park Bdry.	9/13/2004	1606	1.1350	0.93692	1823	1505	21023

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.

GRAND CANYON NATIONAL PARK

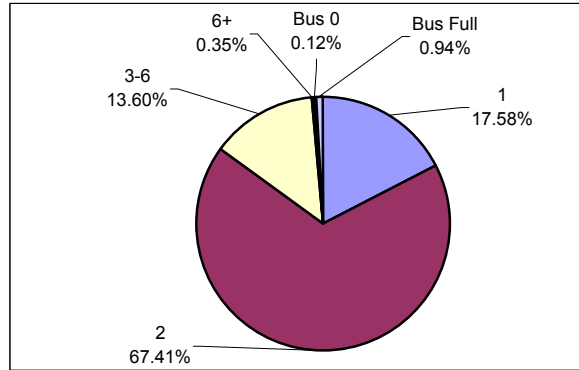
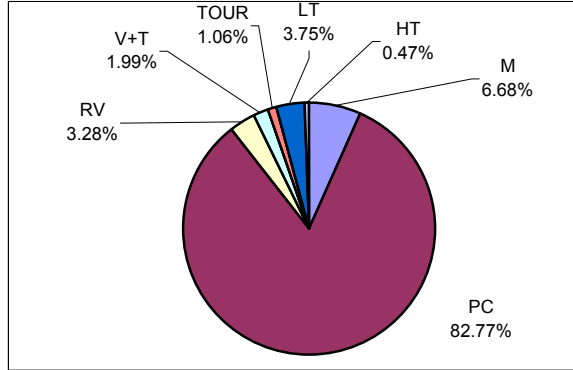
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

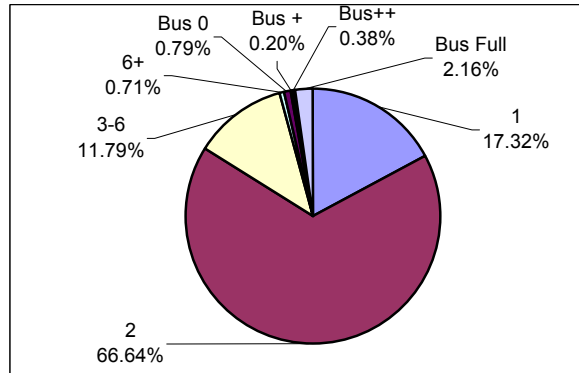
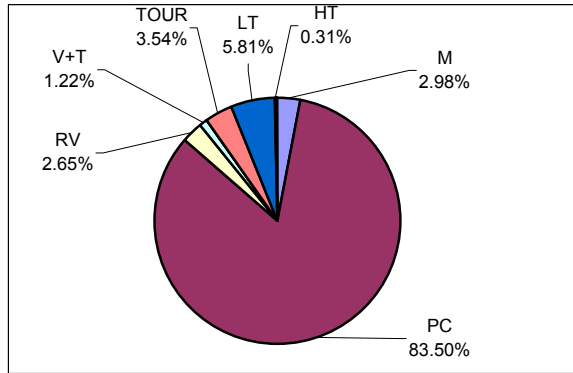
Location: STATION 21010

Location: STATION 21010



Location: STATION 21021

Location: STATION 21021



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.

GRAND CANYON NATIONAL PARK

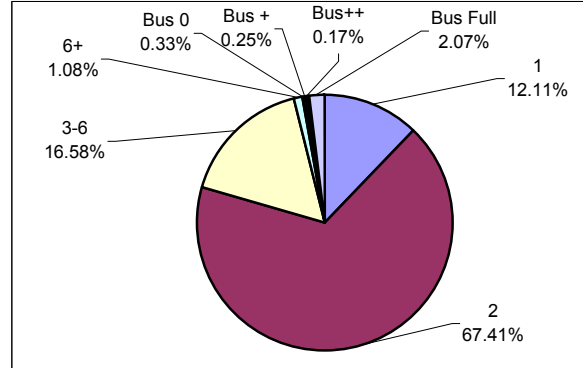
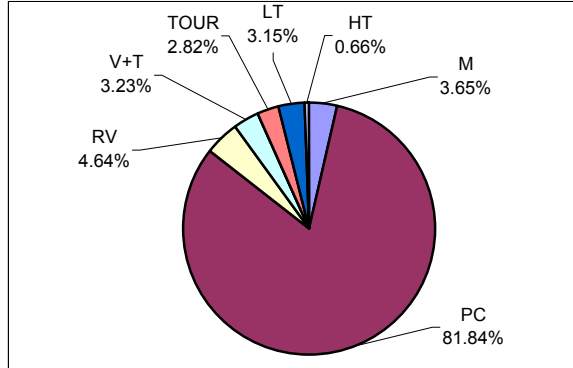
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 21030

Location: STATION 21030



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

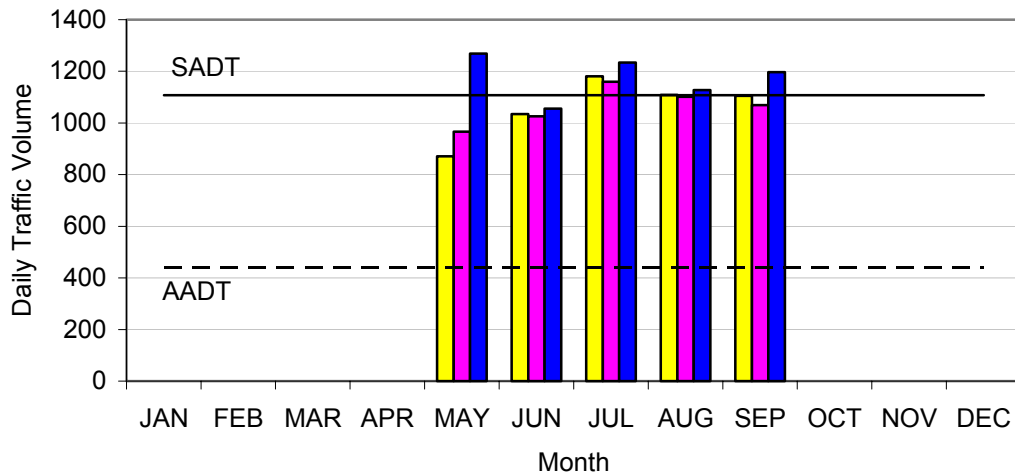
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GRAND CANYON NATIONAL PARK

Station: 21010 North Entrance Rd.- North Park Bdry. to Cape Royal Rd.

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	C	0	0	0	C	C
2	C	0	0	0	C	C
3	C	0	0	0	C	C
4	C	0	0	0	C	C
5	2004	871	966	1269	0.4572	1.1460
6	2004	1034	1026	1056	0.4305	1.0789
7	2004	1181	1160	1234	0.3807	0.9543
8	2004	1109	1102	1127	0.4008	1.0045
9	2004	1105	1069	1197	0.4132	1.0355
10	C	0	0	0	C	C
11	C	0	0	0	C	C
12	C	0	0	0	C	C
Annual Average Daily Traffic (AADT)				442		
Annual Average Weekday Traffic (AAWDT)				444		
Annual Average Weekend Traffic (AAWET)				490		
Seasonal Average Daily Traffic (SADT)				1107		

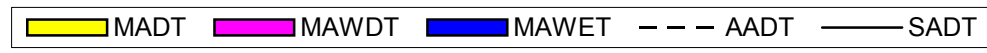
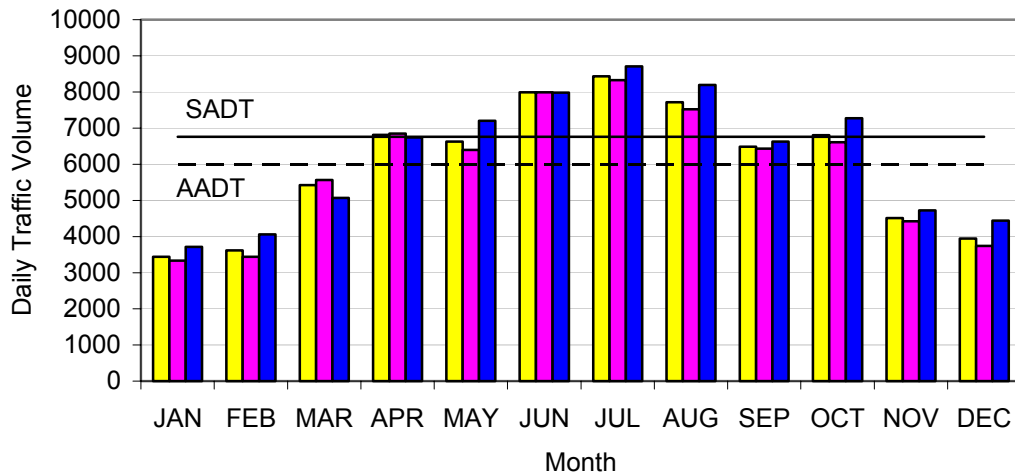


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.
 C = road is seasonally closed to traffic

GRAND CANYON NATIONAL PARK

Station: 21021 South Entrance Rd. - South Park Bdry. to Center Rd.

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	3442	3334	3713	1.7952	2.0270
2	2003	3619	3442	4061	1.7389	1.9634
3	2003	5424	5565	5072	1.0755	1.2144
4	2003	6817	6846	6745	0.8743	0.9871
5	2003	6631	6400	7206	0.9352	1.0559
6	2003	7991	7994	7982	0.7487	0.8454
7	2003	8435	8327	8704	0.7188	0.8116
8	2003	7713	7522	8192	0.7957	0.8984
9	2003	6490	6435	6626	0.9301	1.0502
10	2003	6803	6614	7277	0.9049	1.0218
11	2003	4515	4429	4730	1.3514	1.5259
12	2003	3943	3745	4439	1.5982	1.8045
Annual Average Daily Traffic (AADT)				5985		
Annual Average Weekday Traffic (AAWDT)				5888		
Annual Average Weekend Traffic (AAWET)				6229		
Seasonal Average Daily Traffic (SADT)				6758		

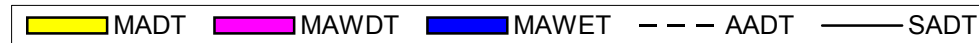
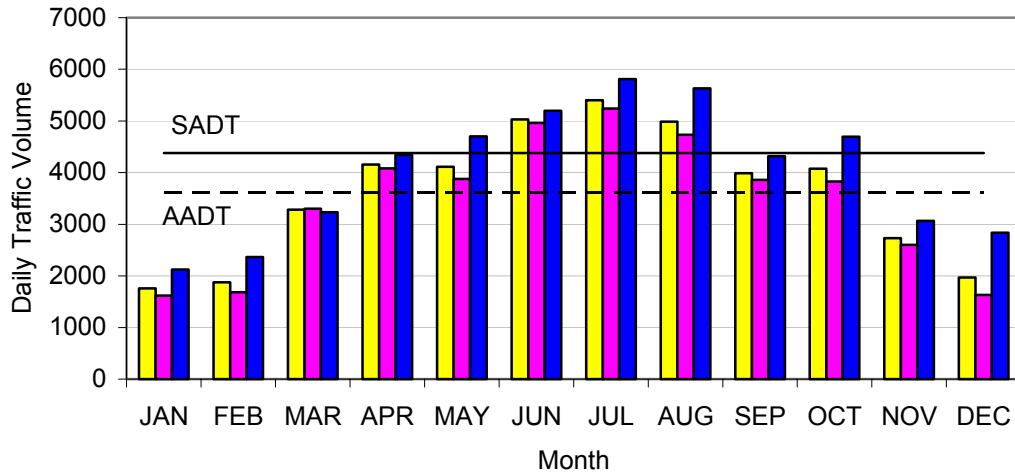


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

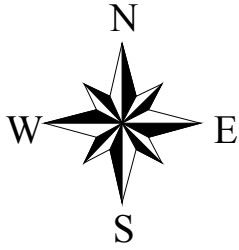
GRAND CANYON NATIONAL PARK

Station: 21023 South Entrance Rd. - Center Rd.to East Rim Drive

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	1761	1616	2122	2.2374	2.7104
2	2003	1877	1682	2366	2.1496	2.6040
3	2003	3282	3300	3236	1.0956	1.3273
4	2003	4159	4084	4345	0.8853	1.0725
5	2003	4113	3876	4704	0.9328	1.1300
6	2003	5031	4965	5197	0.7282	0.8822
7	2003	5402	5239	5812	0.6901	0.8360
8	2003	4989	4732	5629	0.7641	0.9256
9	2003	3990	3859	4316	0.9369	1.1350
10	2003	4076	3828	4694	0.9445	1.1442
11	2003	2734	2602	3065	1.3895	1.6833
12	2003	1973	1627	2836	2.2222	2.6921
Annual Average Daily Traffic (AADT)				3616		
Annual Average Weekday Traffic (AAWDT)				3451		
Annual Average Weekend Traffic (AAWET)				4027		
Seasonal Average Daily Traffic (SADT)				4380		



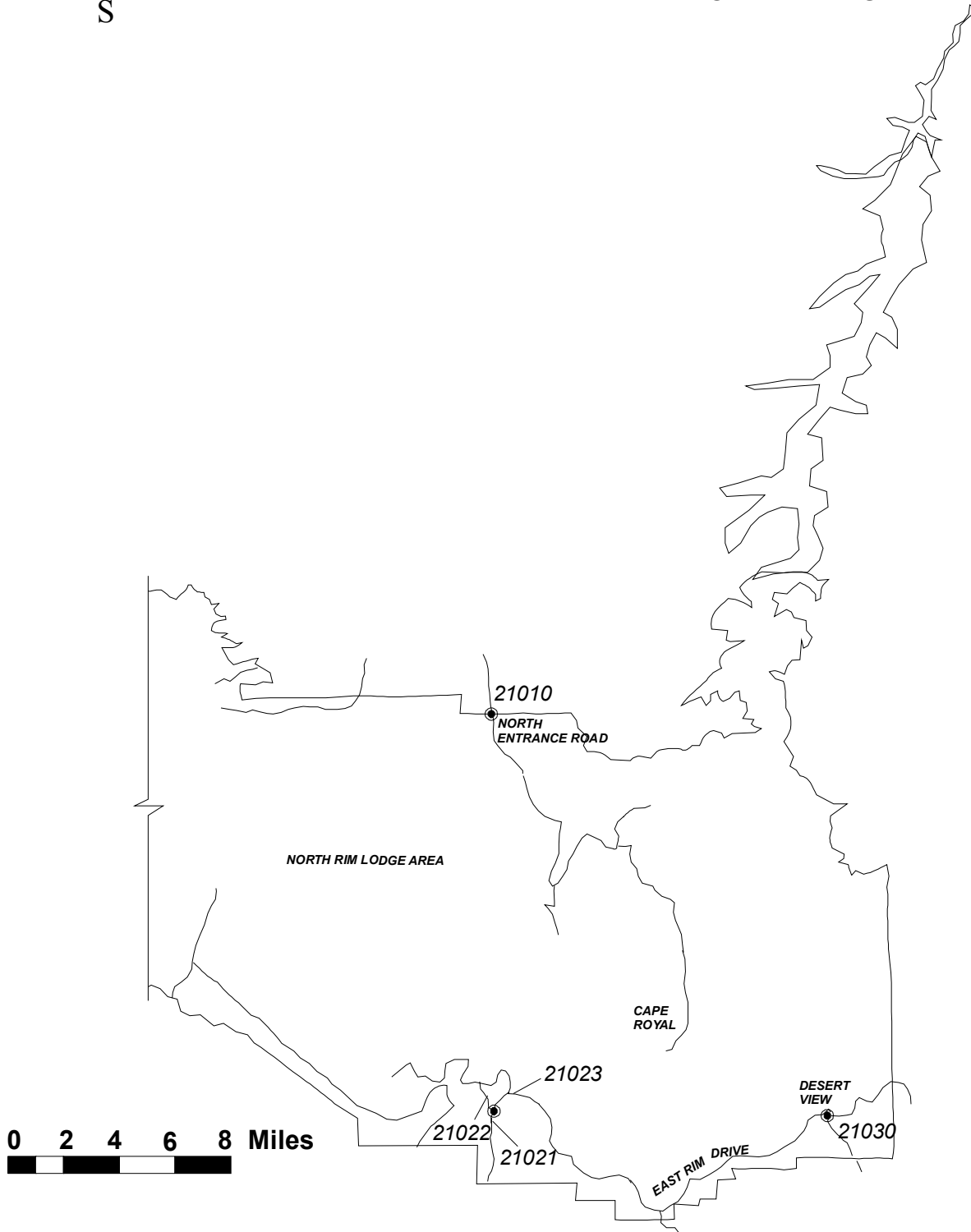
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

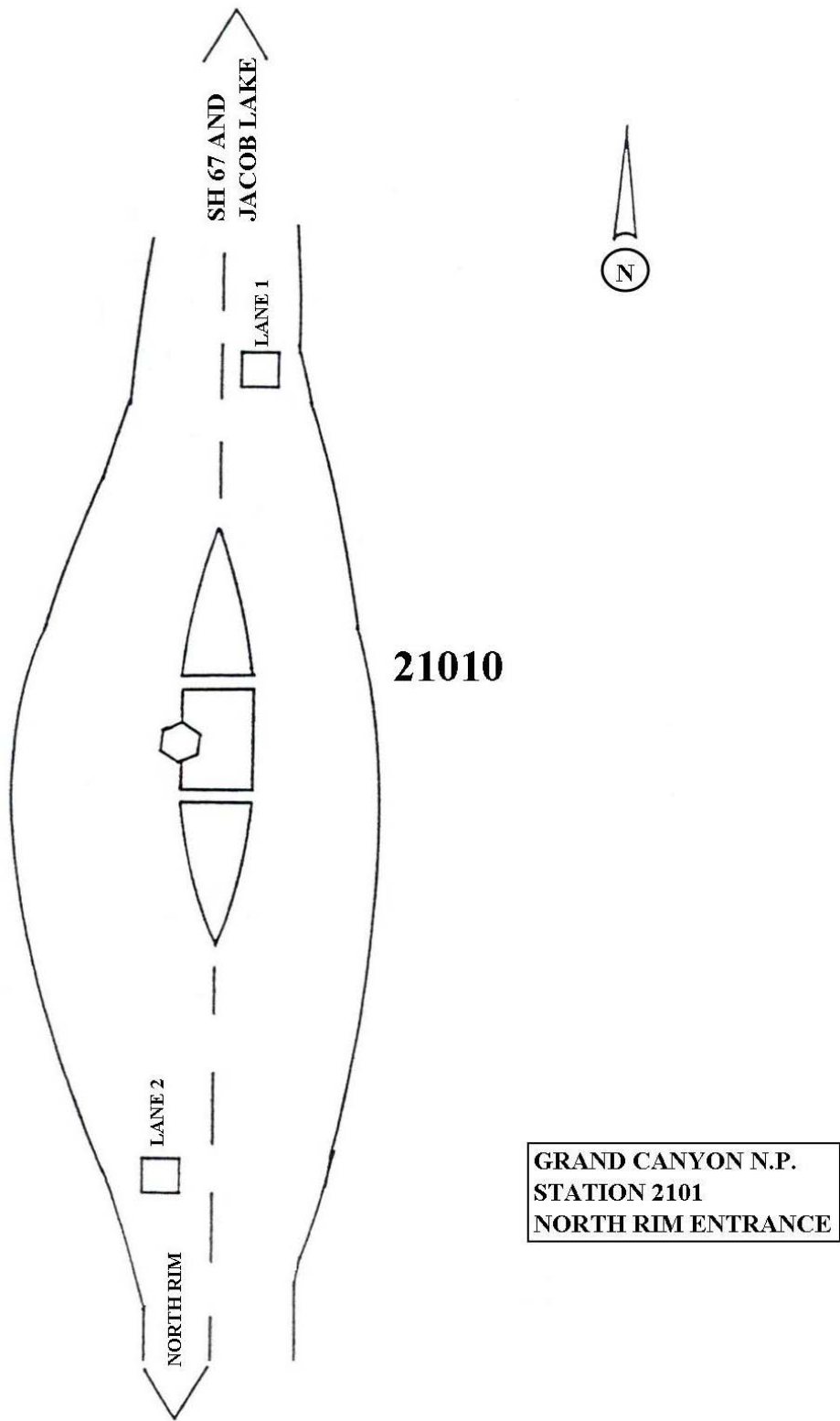


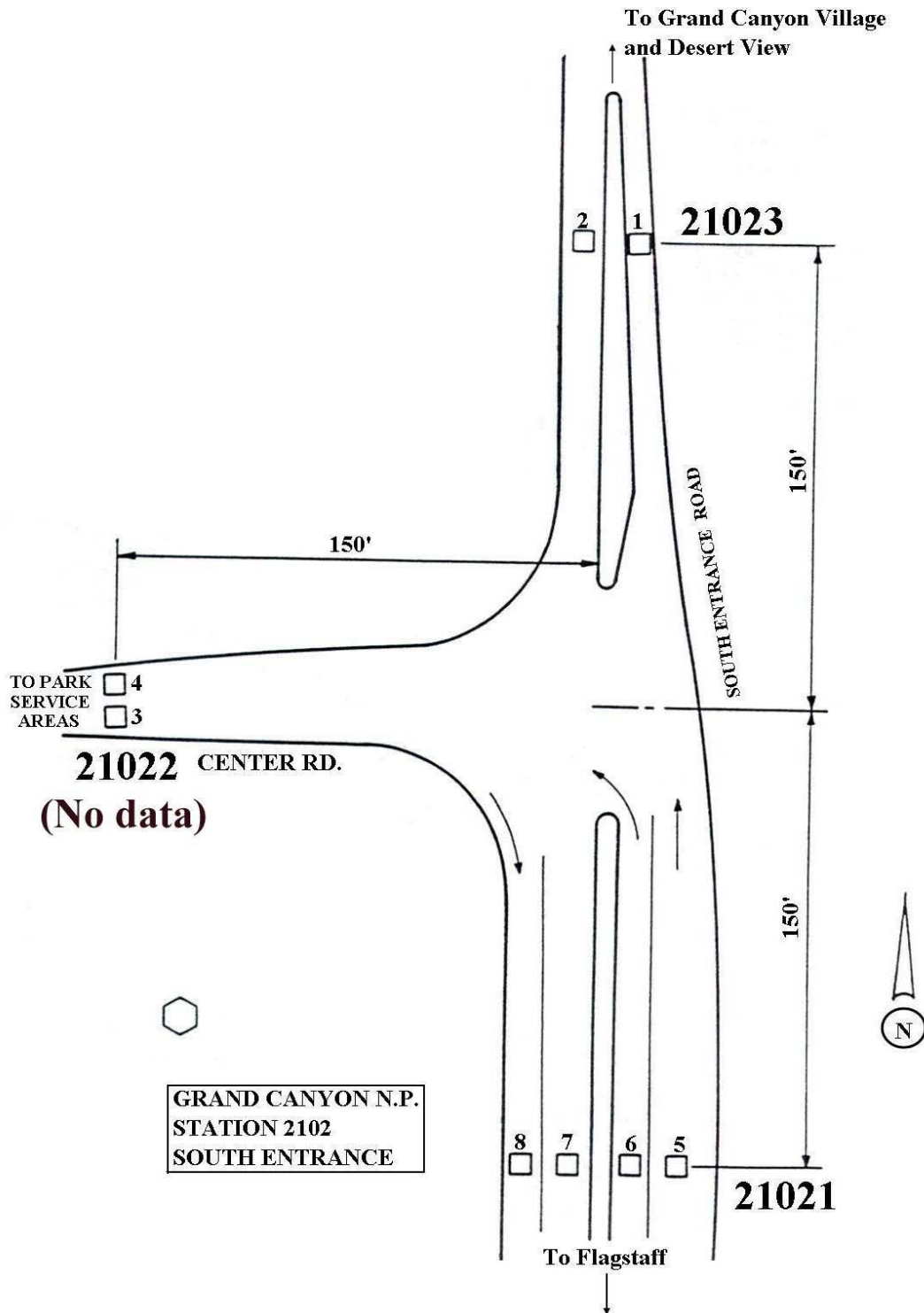
Grand Canyon National Park

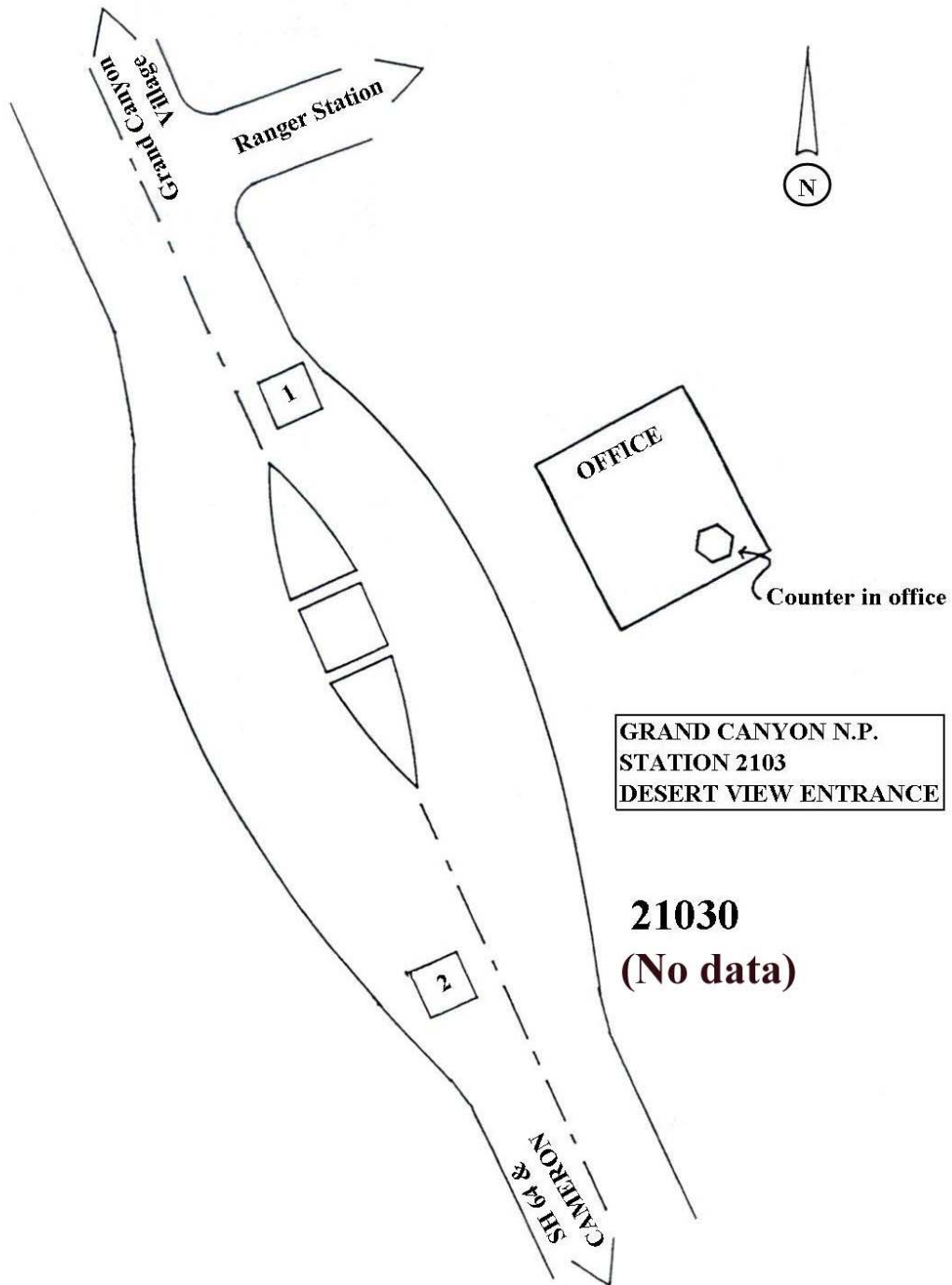
Arizona

U.S. Department of Interior
NATIONAL PARK SERVICE



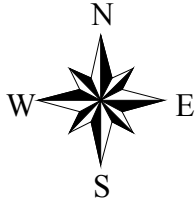






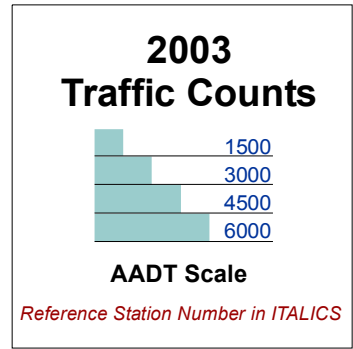
Grand Teton National Park Traffic Package





Grand Teton National Park

Wyoming
U.S. Department of Interior
NATIONAL PARK SERVICE



GRAND TETON NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	North-South Hwy. - South Park Bdry. To Airport Rd.	2417	4.68	3670	4188	6211	5801	6269	7154	10610	9909
10	North-South Hwy. - Airport Rd. to Moose Junction	2416	2.73	2886	2899	4706	4135	2876	2889	4689	4120
10	North-South Hwy. - Moose Junction to Antelope Flats Rd.	2420	0.95	2024	1861	3257	2939	702	645	1129	1019
10	North-South Hwy. - Antelope Flats Rd. to Moran Junction	24013	11.46	1472	2245	2293	2574	6157	9391	9591	10767
10	North-South Hwy. - Moran Junction to East Park Bdry.	24012	7.66	962	1347	1487	1155	2690	3766	4158	3229
11	Teton Park Rd. - Moose Jct. To So. Jct. Jenny Lake Loop Rd.	24020	7.47	1162	1662	1990	1845	3168	4532	5426	5030
11	Teton Park Rd. - So. Jct. To No. Jct. Of Jenny Lake Loop Rd.	2413	5.49	1008	1107	1481	1575	2020	2218	2968	3156
11	Teton Park Rd. - Jenny Lake Loop Rd. to North Entrance Rd.	2415	7.51	1116	1145	1498	1597	3059	3139	4106	4378
12	Gros Ventre Rd. - North-South Hwy. To East Park Bdry.	2421	10.32	457	359	796	624	1721	1352	2998	2350
13	North Entrance Rd. - Moran Junction to Teton Park Rd.	24011	4.31	1244	1700	1812	2183	1957	2674	2851	3434
13	North Entrance Rd. - Teton Park Rd. to Colter Bay Village	2412	5.17	2362	1871	3005	3091	4457	3531	5671	5833
13	North Entrance Rd. - Colter Bay Village to Flagg Ranch	2419	14.64	1918	1275	2107	2097	10249	6813	11259	11206
100	Wilson Rd. - Teton Park Rd. to Southwest Park Bdry.	2418	7.03	372	331	569	729	955	849	1460	1871
101	Antelope Flats Road - North-South Hwy. To Teton Forest Rd.	2422	3.29	100	147	232	405	120	177	279	486
103	Colter Bay Entrance Rd. - North Entrance Rd. to Colter Bay	2411	0.65	1680	1310	1959	2205	399	311	465	523
500	Jenny Lake Loop Rd. - No. Jct. To So. Jct. Of Teton Park Rd.	2414	5.73	403	440	624	788	843	920	1305	1648
13	North Entrance Rd. - Flagg Ranch to Yellowstone NP Bdry.	27030	2.88	926	1554	1748	1387	973	1634	1837	1458
VMT SUMMARY								48615	51994	70801	70418

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

GRAND TETON NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
24020	Teton Park Rd. - Moose Jct. To So. Jct. Jenny Lake Loop Rd.					3844	1845	Self
24011	North Entrance Rd. - Moran Junction to Teton Park Rd.	8/12/03	5346	0.85063	0.40826	4547	2183	24020
24012	North-South Hwy. - Moran Junction to East Park Bdry.	8/12/03	2830	0.85063	0.40826	2407	1155	24020
24013	North-South Hwy. - Antelope Flats Rd. to Moran Junction	8/12/03	6304	0.85063	0.40826	5362	2574	24020
2411	Colter Bay Entrance Rd. - North Entrance Rd. to Colter Bay	8/12/03	5402	0.85063	0.40826	4595	2205	24020
2412	North Entrance Rd. - Teton Park Rd. to Colter Bay Village	8/12/03	7571	0.85063	0.40826	6440	3091	24020
2413	Teton Park Rd. - So. Jct. To No. Jct. Of Jenny Lake Loop Rd.	8/12/03	3858	0.85063	0.40826	3282	1575	24020
2414	Jenny Lake Loop Rd. - No. Jct. To So. Jct. Of Teton Park Rd.	8/12/03	1931	0.85063	0.40826	1643	788	24020
2415	Teton Park Rd. - Jenny Lake Loop Rd. to North Entrance Rd.	8/12/03	3911	0.85063	0.40826	3327	1597	24020
2416	North-South Hwy. - Airport Rd. to Moose Junction	8/12/03	10129	0.85063	0.40826	8616	4135	24020
2417	North-South Hwy. - South Park Bdry. To Airport Rd.	8/12/03	14208	0.85063	0.40826	12086	5801	24020
2418*	Wilson Rd. - Teton Park Rd. to Southwest Park Bdry.	8/15/03	1786	0.85063	0.40826	1519	729	24020
2419	North Entrance Rd. - Colter Bay Village to Flagg Ranch	8/12/03	5137	0.85063	0.40826	4370	2097	24020
2420	North-South Hwy. - Moose Junction to Antelope Flats Rd.	8/12/03	7200	0.85063	0.40826	6125	2939	24020
2421	Gros Ventre Rd. - North-South Hwy. To East Park Bdry.	8/12/03	1528	0.85063	0.40826	1300	624	24020
2422	Antelope Flats Road - North-South Hwy. To Teton Forest Rd.	8/12/03	993	0.85063	0.40826	845	405	24020

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.
 * Station 2418 was recounted at a different date due to equipment failure.

GRAND TETON NATIONAL PARK

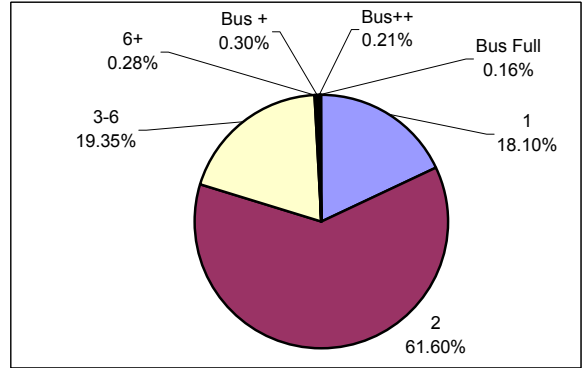
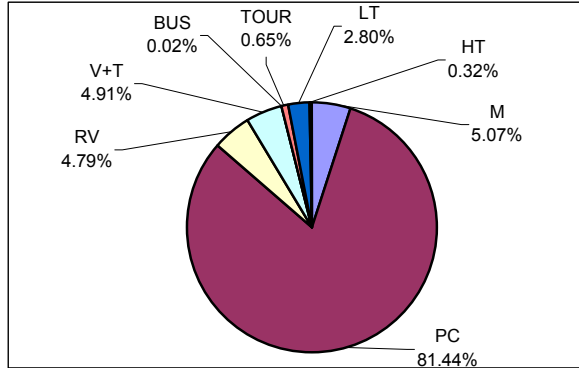
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

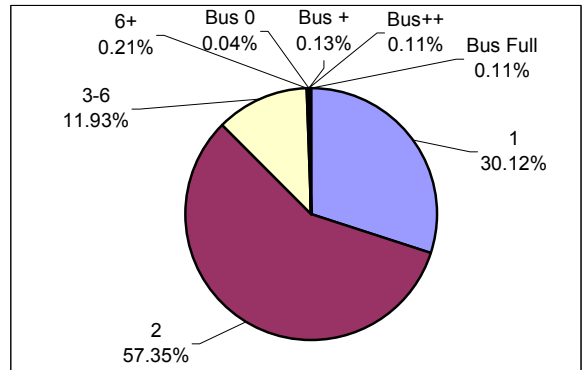
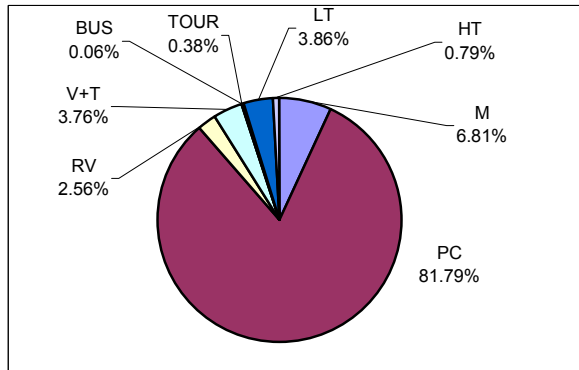
Location: STATION 2412

Location: STATION 2412



Location: STATION 2416

Location: STATION 2416



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

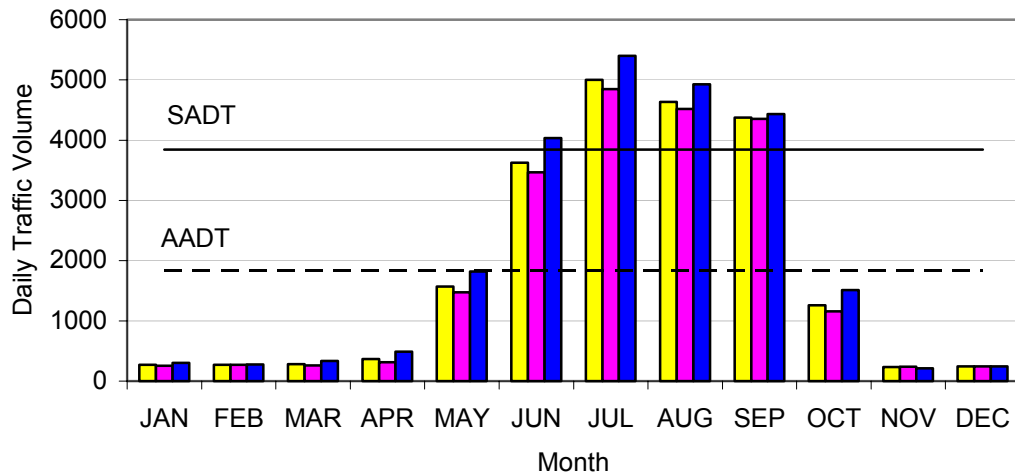
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus ++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GRAND TETON NATIONAL PARK

Station: 24020 Teton Park Rd. - Moose Jct. To So. Jct. Jenny Lake Loop Rd.

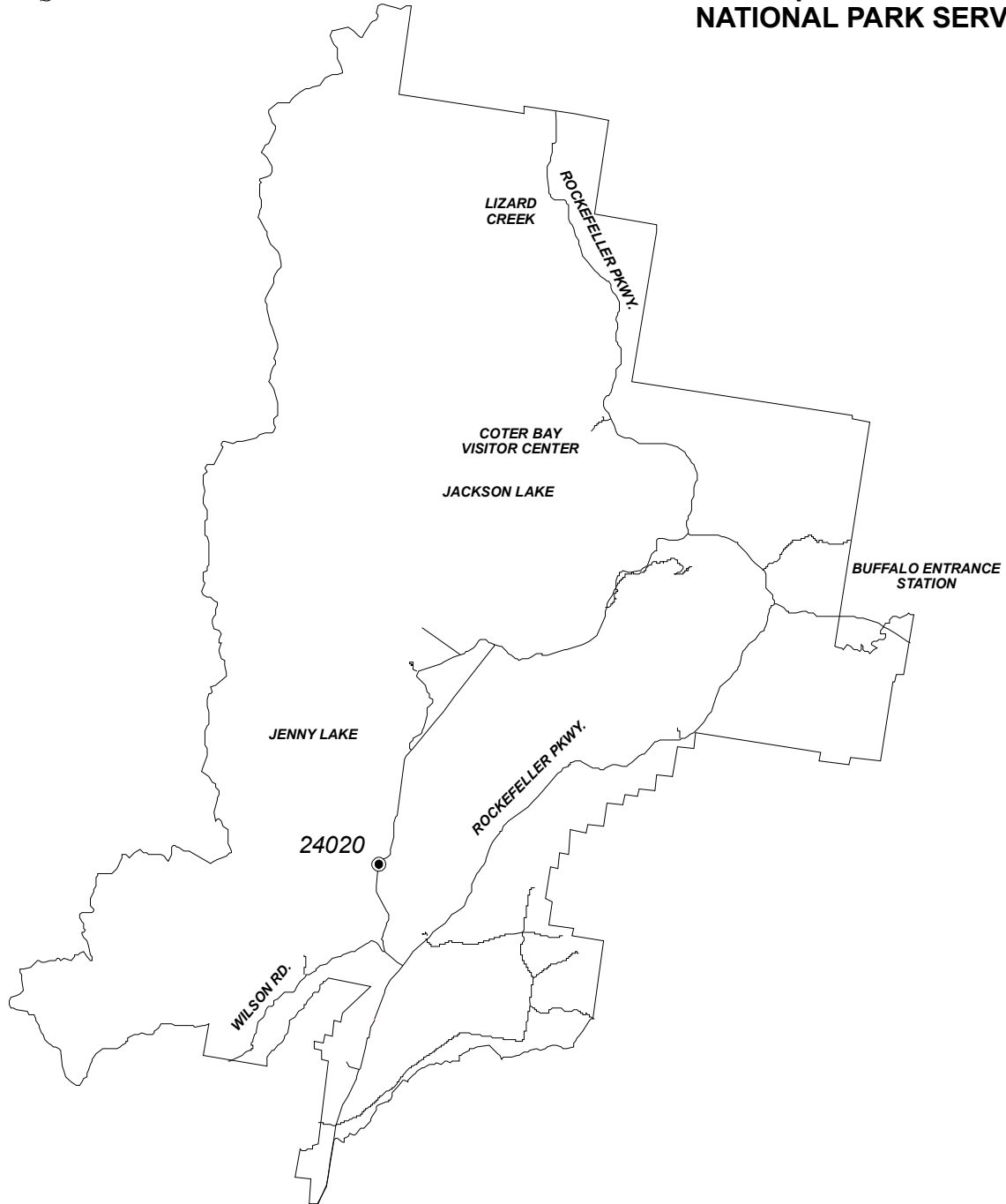
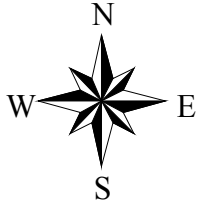
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	270	257	302	7.1787	14.9572
2	2003	271	270	275	6.8330	14.2370
3	2003	283	262	337	7.0417	14.6718
4	2003	365	315	489	5.8569	12.2032
5	2003	1573	1475	1820	1.2508	2.6061
6	2003	3629	3467	4034	0.5321	1.1087
7	2003	5004	4846	5401	0.3807	0.7932
8	2003	4635	4519	4927	0.4083	0.8506
9	2002	4377	4355	4432	0.4236	0.8827
10	2002	1259	1157	1513	1.5946	3.3224
11	2002	231	239	212	7.7193	16.0837
12	2002	242	242	244	7.6236	15.8843
Annual Average Daily Traffic (AADT)				1845		
Annual Average Weekday Traffic (AAWDT)				1784		
Annual Average Weekend Traffic (AAWET)				1999		
Seasonal Average Daily Traffic (SADT)				3844		

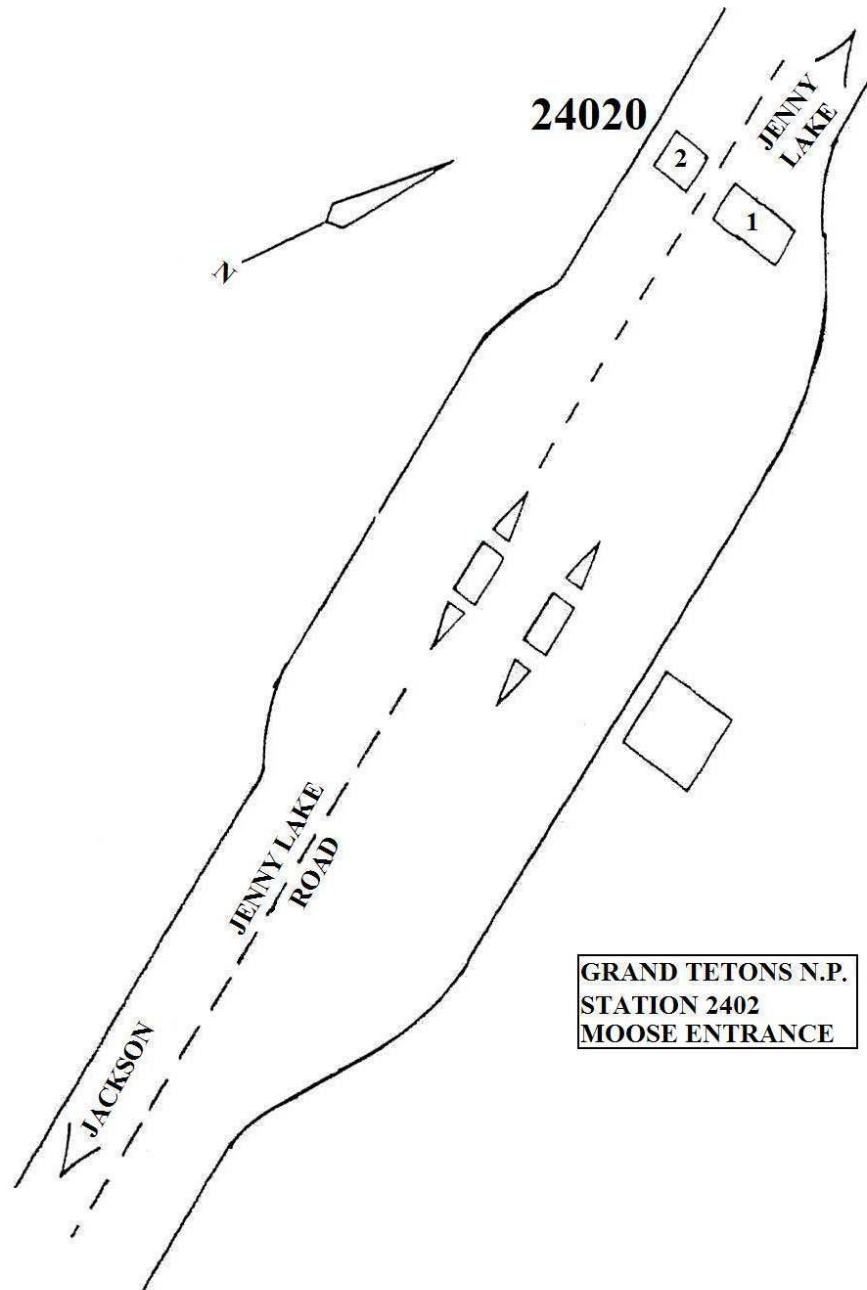


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

Grand Teton National Park

Wyoming
U.S. Department of Interior
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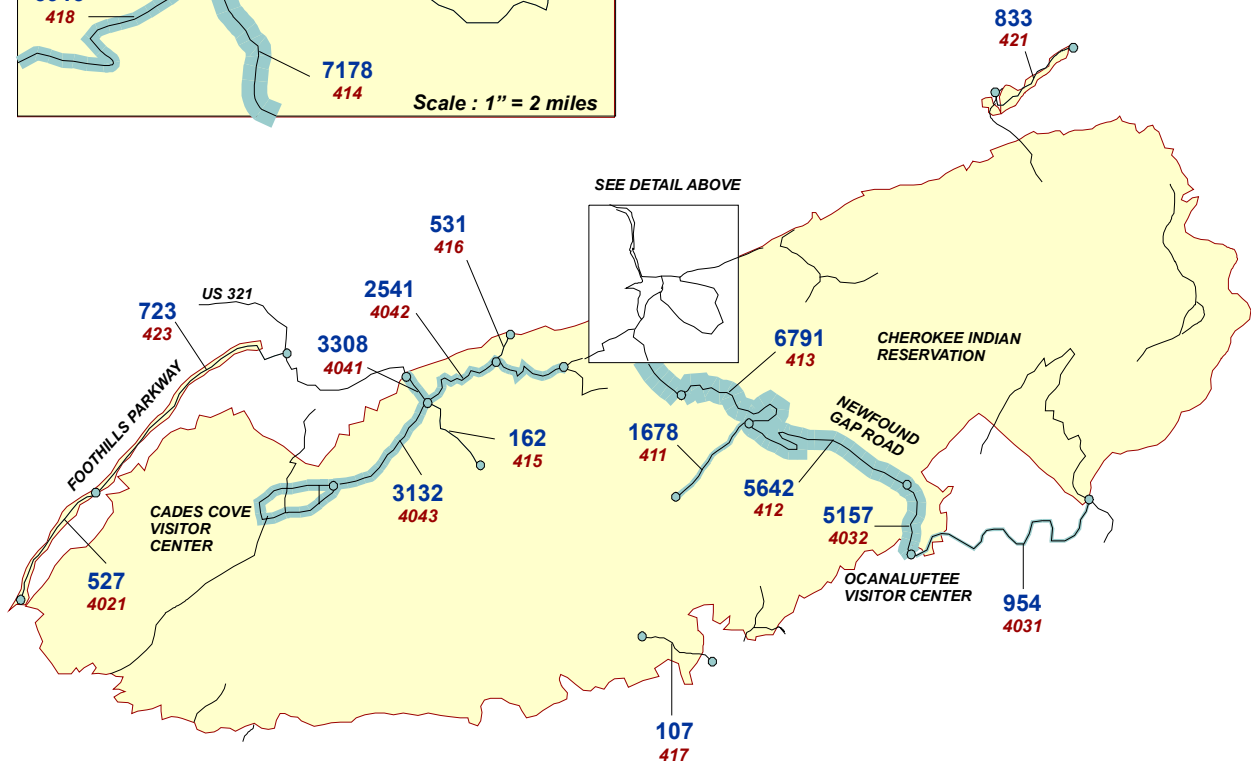
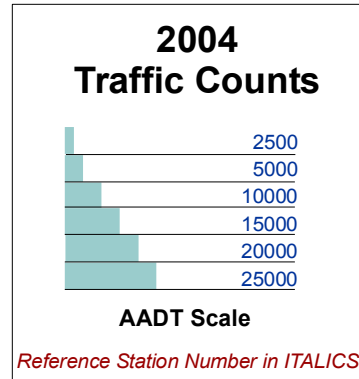
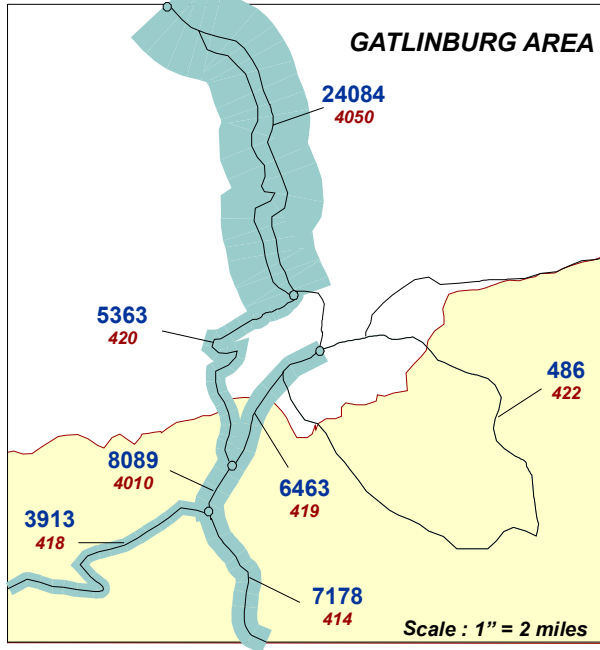
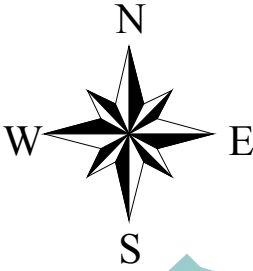


Great Smoky Mountains National Park Traffic Package



Great Smoky Mountains National Park Tennessee & N. Carolina

U.S. Department of Interior
NATIONAL PARK SERVICE



GREAT SMOKY MOUNTAINS NATIONAL PARK TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	Newfound Gap Rd. - North Park Boundary to Gatlinburg Bypass	419	1.1	3057	6162	6717	6463	1227	2474	2697	2595
10	Newfound Gap Rd. - Gatlinburg Bypass to Sugarlands	4010	0.37	7263	7449	8119	8089	981	1006	1096	1092
10	Newfound Gap Rd. - Sugarlands to Chimneys Picnic Area	414	4.74	2364	5322	5801	7178	4090	9208	10036	12419
10	Newfound Gap Rd. - Chimneys Picnic Area to Newfound Gap	413	8.29	3388	5358	5840	6791	10252	16213	17671	20549
10	Newfound Gap Rd. - Newfound Gap to Smokemont	412	12.24	2156	4385	4780	5642	9632	19590	21355	25206
10	Newfound Gap Rd. - Smokemont to South Park Boundary	4032	4.5	4727	4571	5143	5157	7764	7508	8447	8470
11	Gatlinburg Spur - Pigeon Forge to Gatlinburg Bypass	4050	4.61	24682	25734	28050	24084	41531	43301	47198	40525
12	Gatlinburg Bypass - Gatlinburg Spur to Newfound Gap Road	420	3.79	2626	3375	3679	5363	3633	4669	5089	7419
13	Fighting Creek Gap Rd - Sugarlands to Elkmont Entrance Rd.	418	4.87	1406	3216	3505	3913	2499	5717	6230	6956
14	Little River Gorge Rd.- Elkmont Entr. Rd to Townsend Wye	4042	12.41	2384	2540	2572	2541	10799	11505	11650	11510
15	Laurel Creek Rd. - Townsend Wye to Cades Cove Loop Road	4043	7.6	3061	3293	3589	3132	8491	9135	9956	8688
16	Townsend Entrance Rd.- Park Boundary to Townsend Wye	4041	0.74	2706	3065	3385	3308	731	828	914	893
17	Clingmans Dome Rd.- Newfound Gap Road to Parking Lot	411	7.18	994	1796	1958	1678	2605	4707	5131	4398
19	Lake View Rd.- Park Boundary to Tunnel	417	5.79	93	92	100	107	197	194	211	226
23	Wear Cove Gap Rd.- Little River Road to Park Boundary	416	1.24	113	315	343	531	51	143	155	240
24	Foothills Pkwy.- U.S Hwy. 129 to Look Rock	4021	7.53	297	338	368	527	816	929	1011	1448
24	Foothills Pkwy.- Look Rock to U.S 321	423	9.09	300	420	458	723	995	1393	1520	2399
25	Foothills Pkwy.- Tenn Hwy.32 to Interstate Hwy.40	421	5.56	481	852	929	833	976	1729	1885	1690
128	Tremont Rd.- Laurel Creek Road to End of Loop	415	5.15	104	238	259	162	195	447	487	305
502	Roaring Fork Rd.- Cher. Orchard to U.S 321	422	5.25	129	372	405	486	247	713	776	931

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

107713 141409 153519 157960

GREAT SMOKY MOUNTAINS NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
4010	Newfound Gap Rd. - Gatlinburg Bypass to Sugarlands					9822	8089	Self
4032	Newfound Gap Rd. - Smokemont to South Park Boundary					6325	5157	Self
4041	Townsend Entrance Rd.- Park Boundary to Townsend Wye					4071	3308	Self
4042	Little River Gorge Rd.- Elkmont Entr. Rd to Townsend Wye					3148	2541	Self
4043	Laurel Creek Rd. - Townsend Wye to Cades Cove Loop Road					3863	3132	Self
4044	Ramp between Little River Gorge Rd. and Townsend Entrance Rd.					1400	1125	Self
4045	Ramp between Townsend Entrance Road and Laurel Creek Road					1747	1415	Self
4021	Foothills Pkwy.- U.S Hwy. 129 to Look Rock	10/16/2004	1167	0.5560	0.4518	649	527	4041
4031	Blue Ridge Pkwy East of Oconaluftee River Bridge	10/16/2004	1809	0.6469	0.52743	1170	954	4032
4050	Gatlinburg Spur - Pigeon Forge to Gatlinburg Bypass	10/16/2004	45033	0.6494	0.53481	29246	24084	4010
411	Clingmans Dome Rd.- Newfound Gap Road to Parking Lot	10/16/2004	3182	0.6469	0.52743	2059	1678	4032
412	Newfound Gap Rd. - Newfound Gap to Smokemont	10/16/2004	10698	0.6469	0.52743	6921	5642	4032
413	Newfound Gap Rd. - Chimneys Picnic Area to Newfound Gap	10/16/2004	12876	0.6469	0.52743	8330	6791	4032
414	Newfound Gap Rd. - Sugarlands to Chimneys Picnic Area	10/16/2004	13422	0.6494	0.53481	8717	7178	4010
415	Tremont Rd.- Laurel Creek Road to End of Loop	10/16/2004	358	0.5560	0.4518	199	162	4041
416	Wear Cove Gap Rd.- Little River Road to Park Boundary	10/16/2004	1176	0.5560	0.4518	654	531	4041
417	Lake View Rd.- Park Boundary to Tunnel	10/16/2004	203	0.6469	0.52743	131	107	4032
418	Fighting Creek Gap Rd - Sugarlands to Elkmont Entrance Rd.	10/16/2004	7316	0.6494	0.53481	4751	3913	4010
419	Newfound Gap Rd. - North Park Boundary to Gatlinburg Bypass	10/16/2004	12085	0.6494	0.53481	7848	6463	4010
420	Gatlinburg Bypass - Gatlinburg Spur to Newfound Gap Road	10/16/2004	10028	0.6494	0.53481	6512	5363	4010
421	Foothills Pkwy.- Tenn Hwy.32 to Interstate Hwy.40	10/16/2004	1844	0.5560	0.4518	1025	833	4041
422	Roaring Fork Rd.- Cher. Orchard to U.S 321	10/16/2004	922	0.64693	0.52743	596	486	4032
423	Foothills Pkwy.- Look Rock to U.S 321	10/16/2004	1600	0.5560	0.4518	890	723	4041

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.

GREAT SMOKY MOUNTAINS NATIONAL PARK

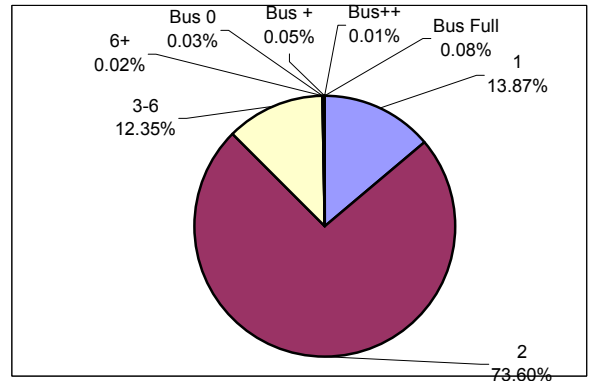
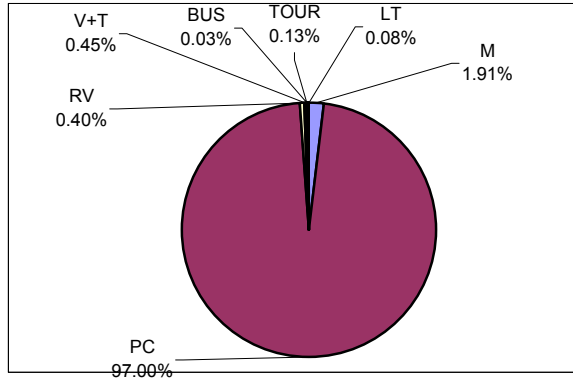
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

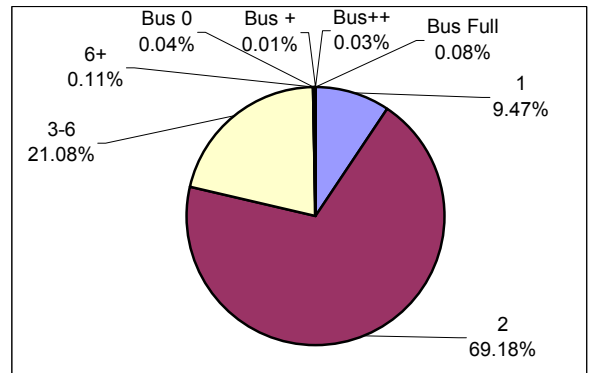
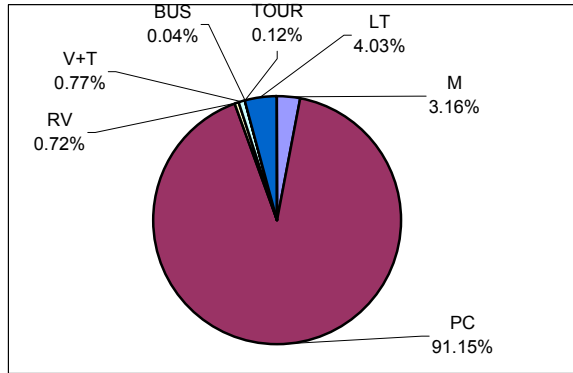
Location: STATION 4010

Location: STATION 4010



Location: STATION 4032

Location: STATION 4032



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.

GREAT SMOKY MOUNTAINS NATIONAL PARK

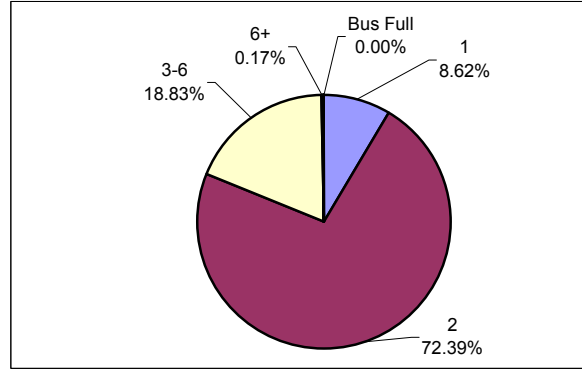
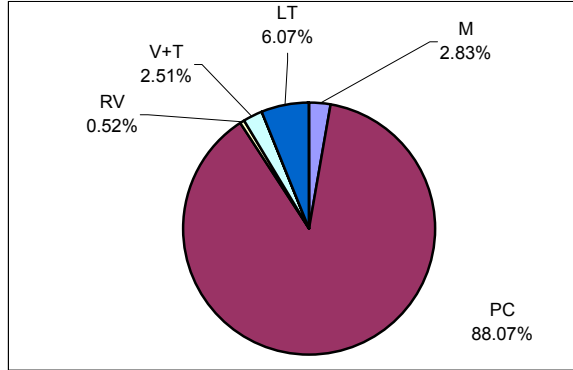
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 4041

Location: STATION 4041



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

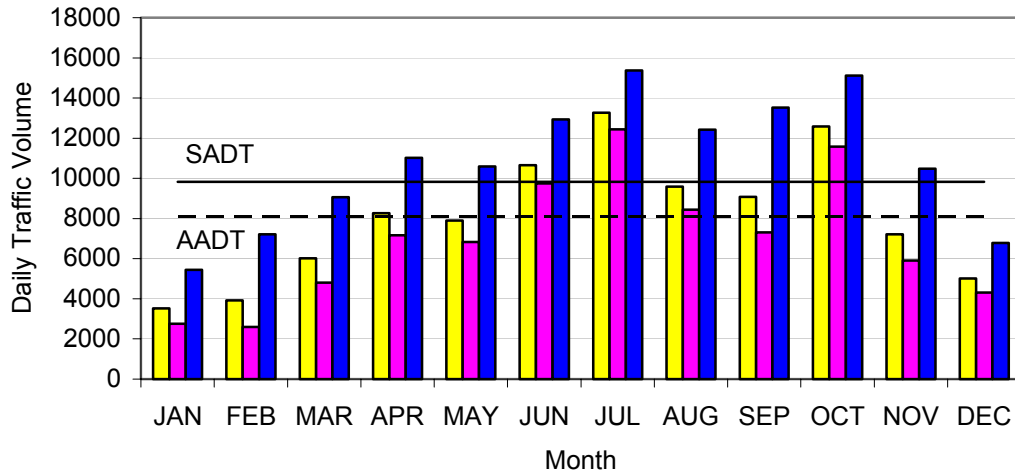
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4010 Newfound Gap Rd. - Gatlinburg Bypass to Sugarlands

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	2004	3518	2748	5444	1.4858	1.8042
2	2004	3918	2596	7223	1.1198	1.3598
3	2004	6027	4811	9066	0.8922	1.0834
4	2004	8268	7167	11020	0.7340	0.8913
5	2004	7904	6831	10588	0.7639	0.9277
6	2004	10661	9753	12930	0.6256	0.7596
7	2004	13276	12439	15368	0.5263	0.6391
8	2004	9586	8450	12425	0.6510	0.7905
9	2004	9082	7306	13522	0.5982	0.7264
10	2004	12589	11575	15124	0.5348	0.6494
11	2003	7213	5906	10480	0.7718	0.9372
12	2003	5020	4312	6790	1.1912	1.4465
Annual Average Daily Traffic (AADT)				8089		
Annual Average Weekday Traffic (AAWDT)				6991		
Annual Average Weekend Traffic (AAWET)				10832		
Seasonal Average Daily Traffic (SADT)				9822		

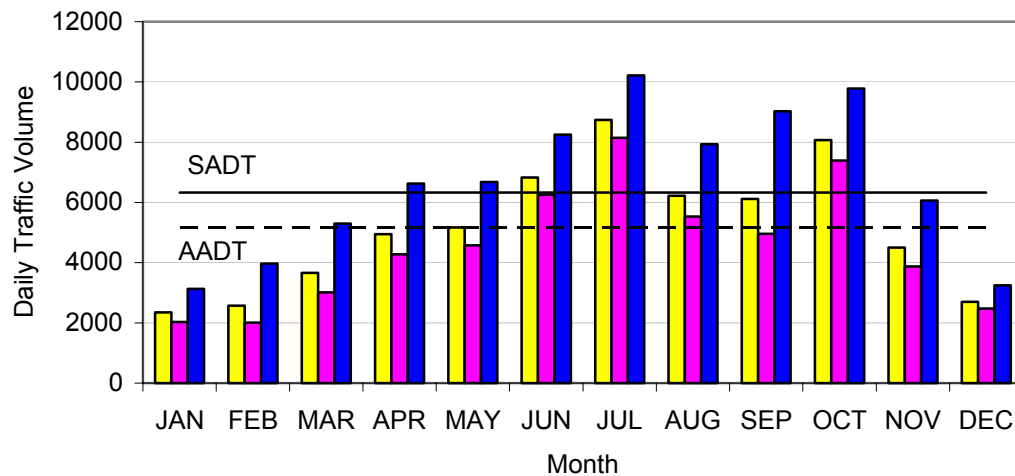


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4032 Newfound Gap Rd. - Smokemont to South Park Boundary

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	2004	2347	2031	3137	1.6438	2.0163
2	2004	2565	2003	3970	1.2989	1.5932
3	2004	3668	3016	5299	0.9731	1.1936
4	2004	4950	4279	6628	0.7780	0.9543
5	2004	5175	4573	6680	0.7720	0.9469
6	2004	6825	6255	8250	0.6251	0.7667
7	2004	8737	8145	10215	0.5048	0.6192
8	2004	6219	5533	7934	0.6499	0.7972
9	2004	6116	4954	9022	0.5716	0.7011
10	2004	8075	7395	9777	0.5274	0.6469
11	2003	4503	3880	6060	0.8509	1.0437
12	2003	2700	2479	3253	1.5852	1.9444
Annual Average Daily Traffic (AADT)				5157		
Annual Average Weekday Traffic (AAWDT)				4545		
Annual Average Weekend Traffic (AAWET)				6685		
Seasonal Average Daily Traffic (SADT)				6325		

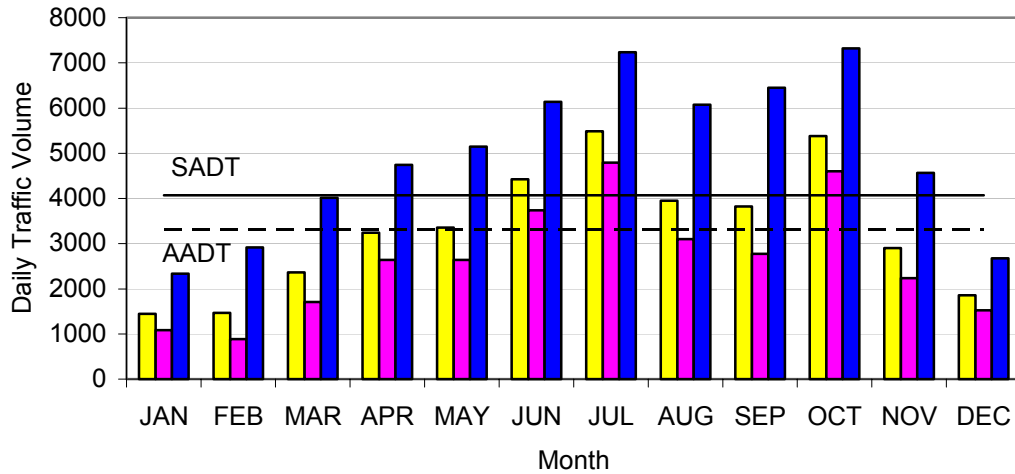


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4041 Townsend Entrance Rd.- Park Boundary to Townsend Wye

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	2004	1443	1085	2338	1.4149	1.7412
2	2004	1466	887	2914	1.1352	1.3970
3	2004	2366	1707	4012	0.8245	1.0147
4	2004	3244	2643	4745	0.6972	0.8580
5	2004	3358	2641	5149	0.6425	0.7906
6	2004	4423	3735	6141	0.5387	0.6629
7	2004	5490	4792	7236	0.4572	0.5626
8	2004	3948	3098	6073	0.5447	0.6703
9	2004	3826	2778	6448	0.5130	0.6314
10	2004	5377	4599	7322	0.4518	0.5560
11	2003	2904	2240	4564	0.7248	0.8920
12	2003	1852	1521	2679	1.2348	1.5196
Annual Average Daily Traffic (AADT)				3308		
Annual Average Weekday Traffic (AAWDT)				2644		
Annual Average Weekend Traffic (AAWET)				4968		
Seasonal Average Daily Traffic (SADT)				4071		

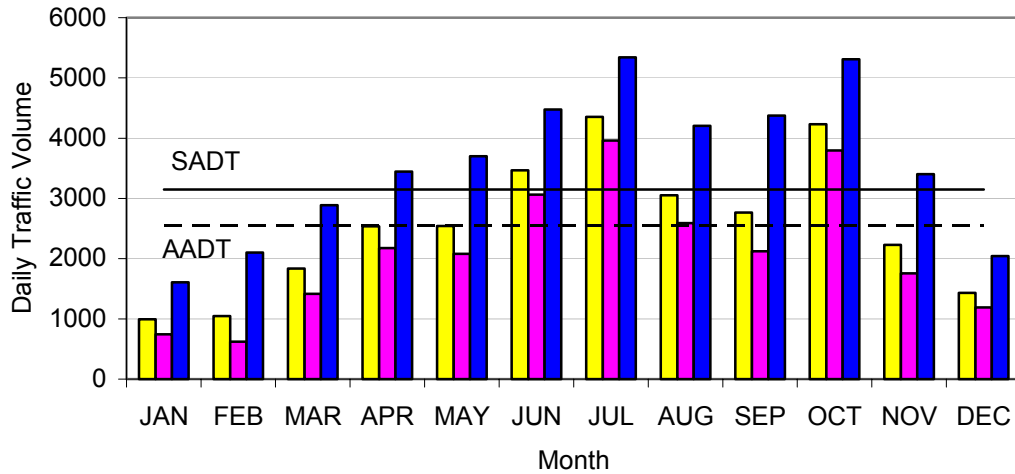


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4042 Little River Gorge Rd.- Elkmont Entr. Rd to Townsend Wye

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	2004	992	746	1609	1.5791	1.9565
2	2004	1046	623	2103	1.2082	1.4969
3	2004	1837	1417	2887	0.8801	1.0904
4	2004	2538	2176	3445	0.7375	0.9138
5	2004	2542	2079	3700	0.6867	0.8508
6	2004	3468	3064	4478	0.5674	0.7030
7	2004	4356	3961	5341	0.4757	0.5894
8	2004	3051	2589	4204	0.6044	0.7488
9	2004	2767	2123	4377	0.5805	0.7192
10	2004	4230	3799	5308	0.4787	0.5931
11	2003	2228	1758	3403	0.7466	0.9251
12	2003	1435	1191	2045	1.2425	1.5394
Annual Average Daily Traffic (AADT)				2541		
Annual Average Weekday Traffic (AAWDT)				2127		
Annual Average Weekend Traffic (AAWET)				3575		
Seasonal Average Daily Traffic (SADT)				3148		

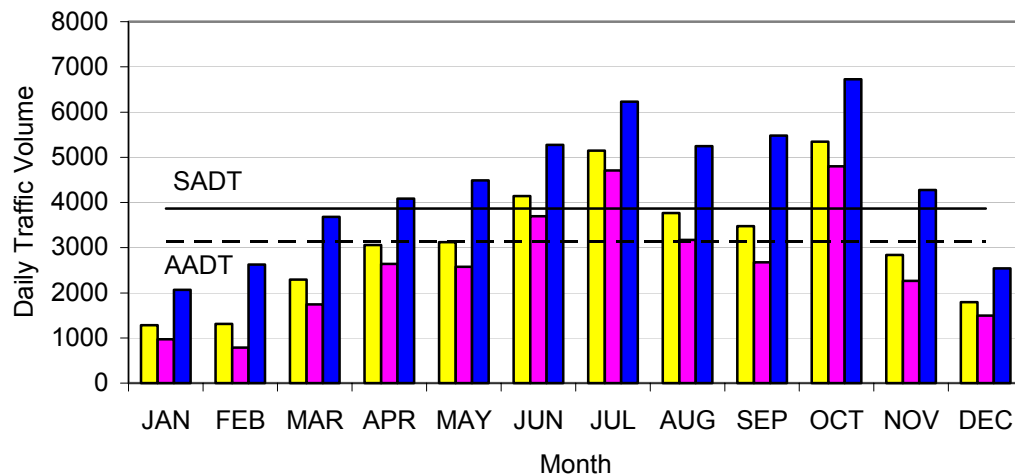


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4043 Laurel Creek Rd. - Townsend Wye to Cades Cove Loop Road

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	2004	1282	968	2066	1.5161	1.8698
2	2004	1312	785	2629	1.1914	1.4694
3	2004	2297	1742	3683	0.8505	1.0489
4	2004	3056	2643	4088	0.7662	0.9450
5	2004	3124	2579	4487	0.6981	0.8609
6	2004	4145	3693	5276	0.5937	0.7322
7	2004	5145	4711	6230	0.5028	0.6201
8	2004	3765	3172	5248	0.5968	0.7361
9	2004	3479	2678	5483	0.5713	0.7045
10	2004	5348	4797	6726	0.4657	0.5743
11	2003	2840	2266	4273	0.7330	0.9040
12	2003	1794	1494	2544	1.2312	1.5185
Annual Average Daily Traffic (AADT)				3132		
Annual Average Weekday Traffic (AAWDT)				2627		
Annual Average Weekend Traffic (AAWET)				4394		
Seasonal Average Daily Traffic (SADT)				3863		

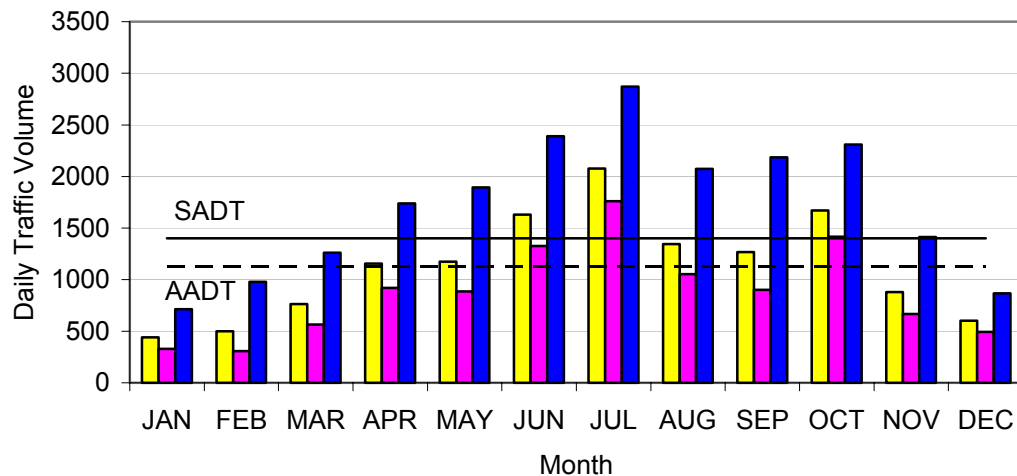


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4044 Ramp between Little River Gorge Rd. and Townsend Entrance Rd.

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	2004	439	329	714	1.5760	1.9608
2	2004	498	306	979	1.1494	1.4300
3	2004	763	564	1262	0.8916	1.1094
4	2004	1155	921	1740	0.6467	0.8046
5	2004	1175	888	1893	0.5944	0.7396
6	2004	1631	1327	2391	0.4706	0.5855
7	2004	2077	1760	2871	0.3919	0.4876
8	2004	1345	1053	2074	0.5426	0.6750
9	2004	1268	901	2185	0.5150	0.6407
10	2004	1672	1416	2310	0.4871	0.6061
11	2003	880	666	1414	0.7958	0.9901
12	2003	600	493	867	1.2979	1.6148
Annual Average Daily Traffic (AADT)				1125		
Annual Average Weekday Traffic (AAWDT)				885		
Annual Average Weekend Traffic (AAWET)				1725		
Seasonal Average Daily Traffic (SADT)				1400		

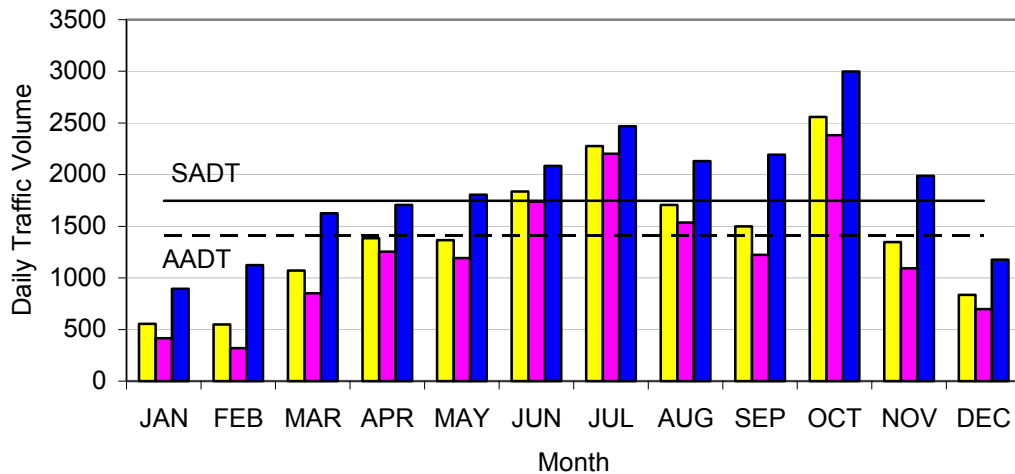


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

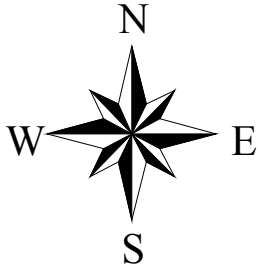
GREAT SMOKY MOUNTAINS NATIONAL PARK

Station: 4045 Ramp between Townsend Entrance Road and Laurel Creek Road

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	2004	553	416	895	1.5815	1.9520
2	2004	548	318	1123	1.2604	1.5557
3	2004	1073	853	1625	0.8710	1.0751
4	2004	1383	1254	1706	0.8297	1.0240
5	2004	1367	1191	1807	0.7833	0.9668
6	2004	1837	1737	2086	0.6785	0.8375
7	2004	2278	2202	2470	0.5730	0.7073
8	2004	1706	1536	2130	0.6645	0.8202
9	2004	1499	1222	2192	0.6457	0.7970
10	2004	2558	2383	2998	0.4721	0.5827
11	2003	1348	1092	1989	0.7116	0.8783
12	2003	835	698	1178	1.2015	1.4830
Annual Average Daily Traffic (AADT)				1415		
Annual Average Weekday Traffic (AAWDT)				1242		
Annual Average Weekend Traffic (AAWET)				1850		
Seasonal Average Daily Traffic (SADT)				1747		

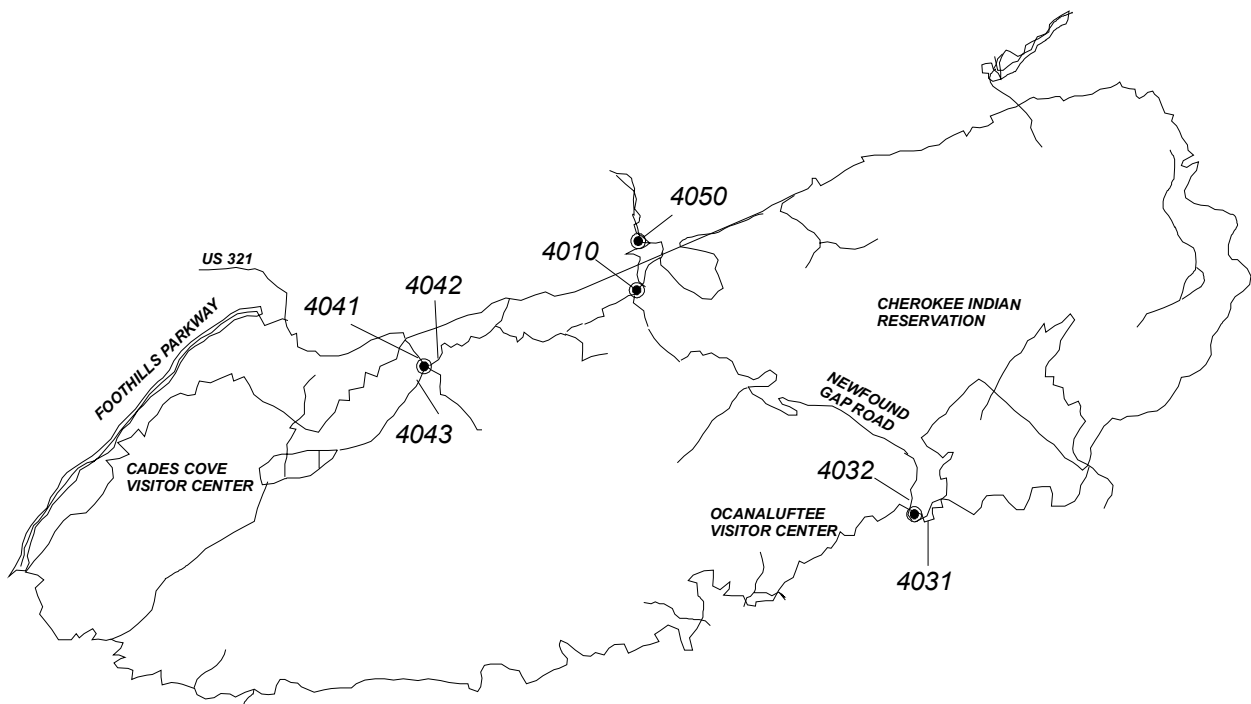


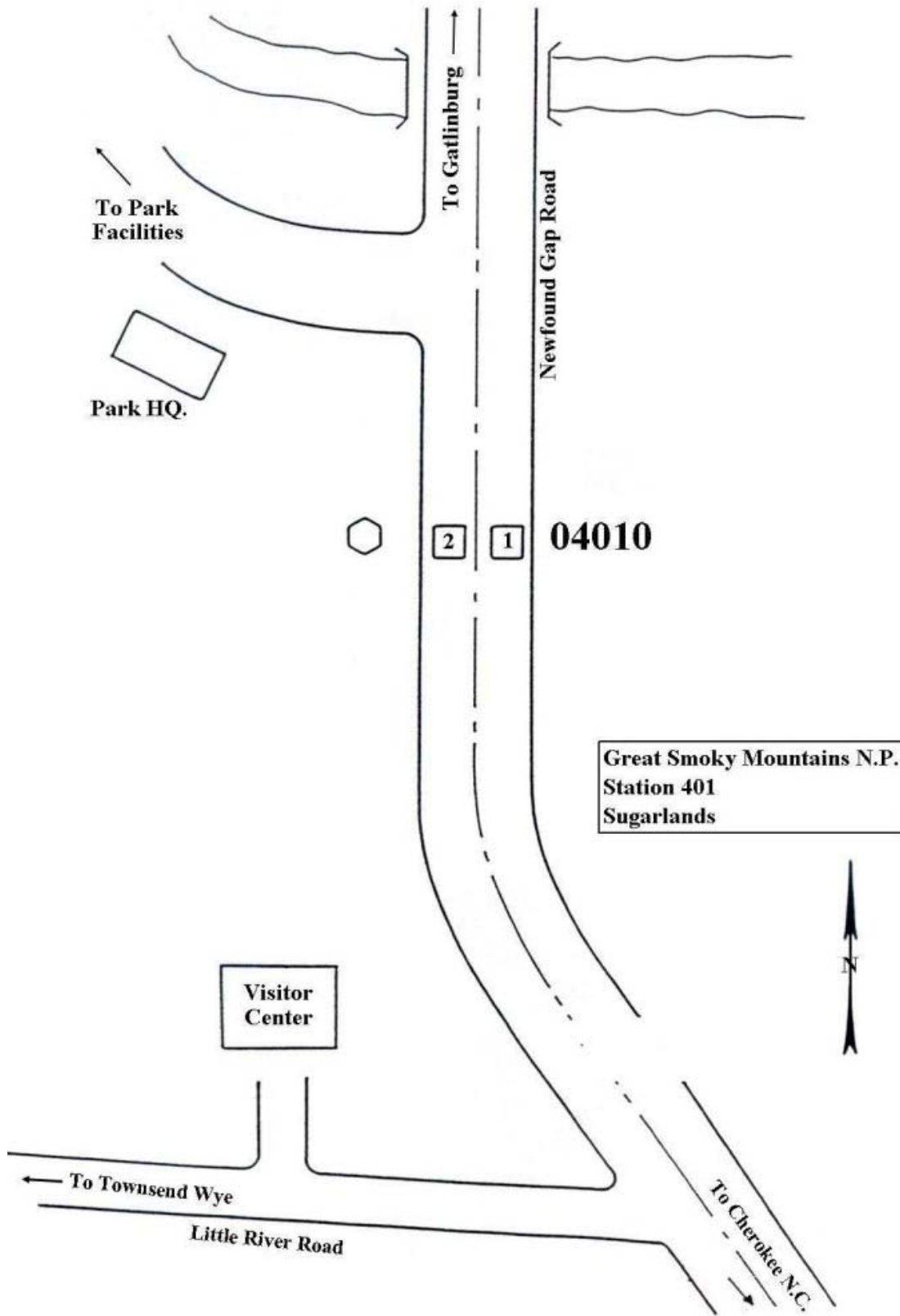
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

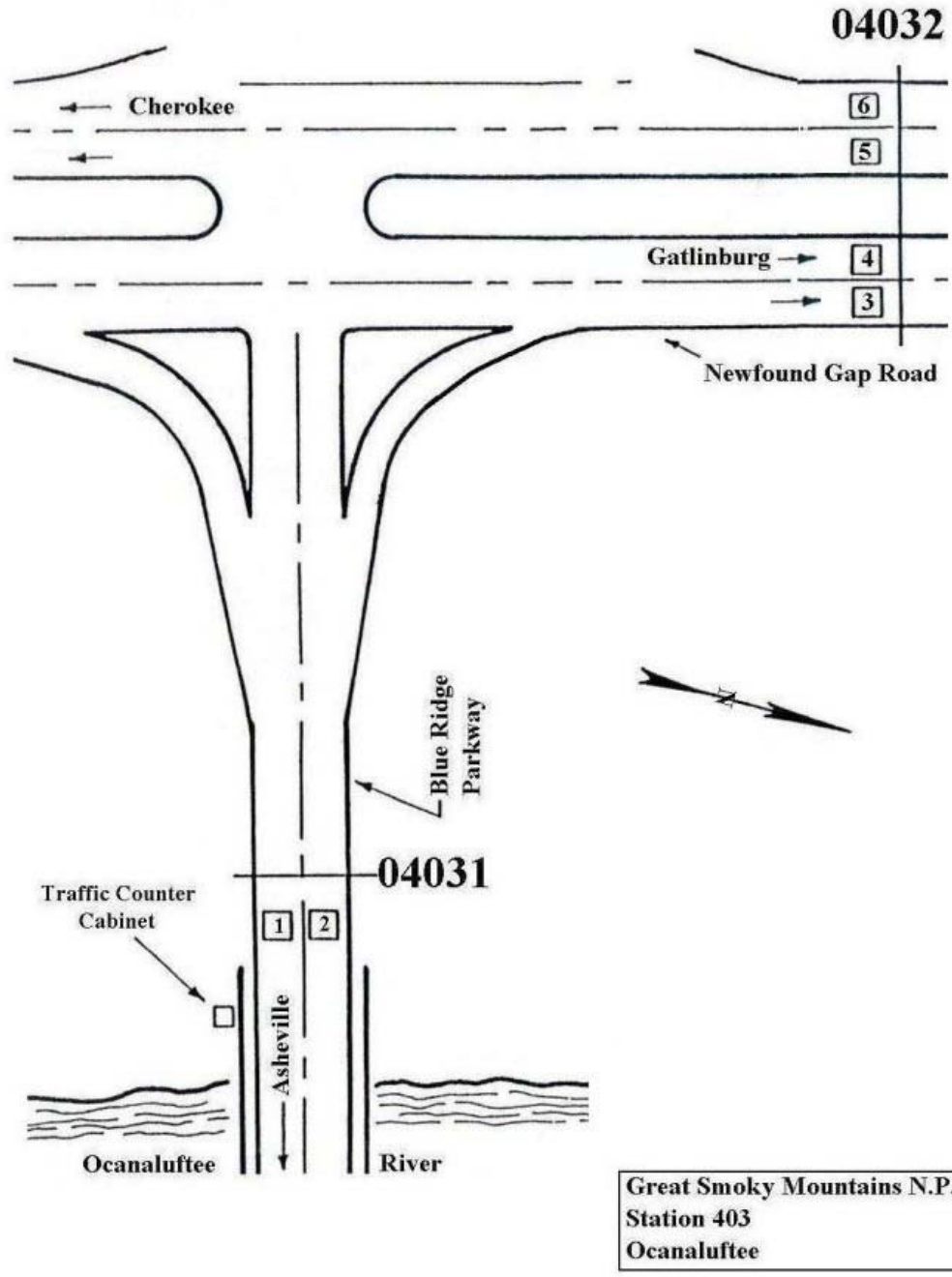


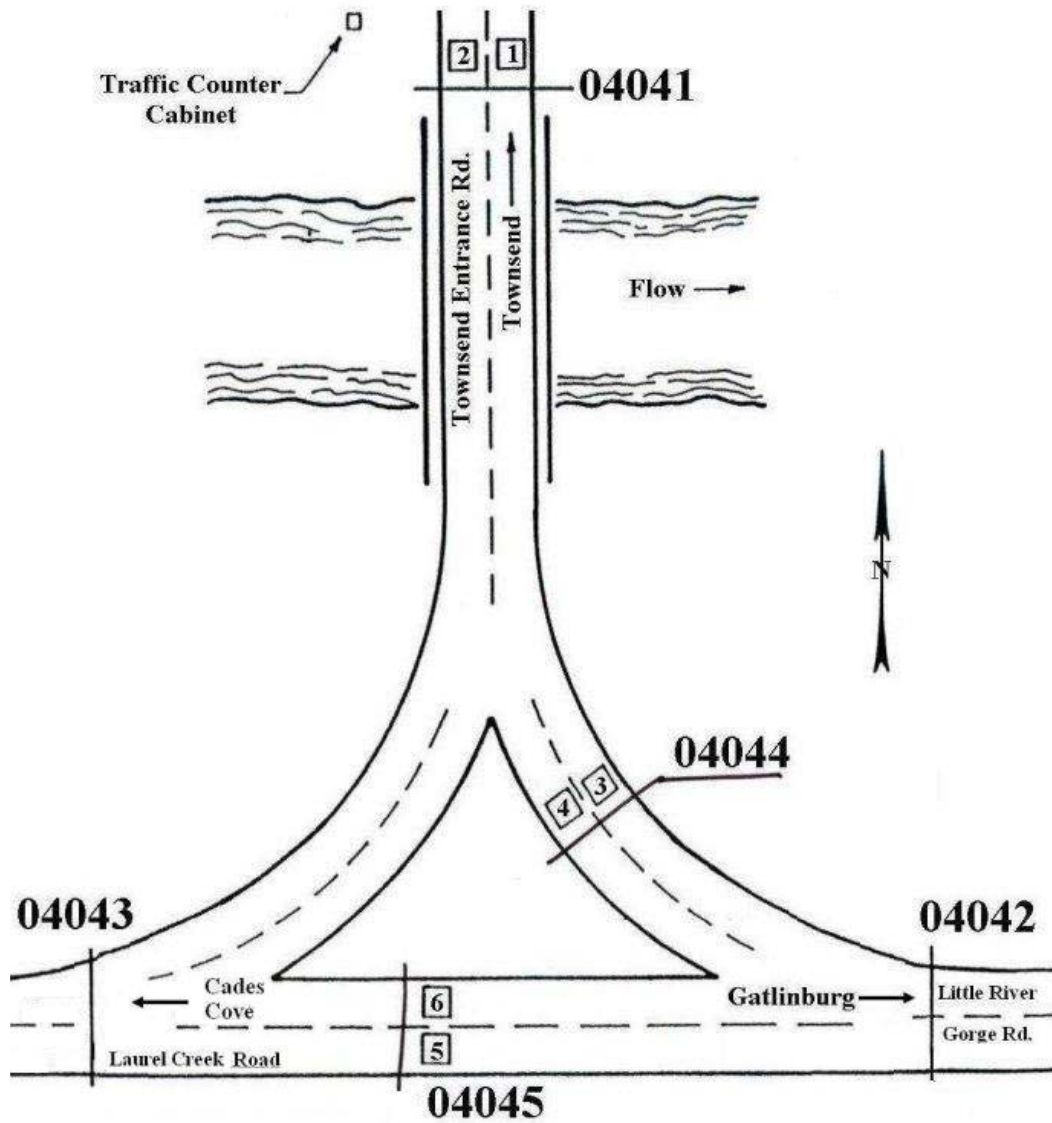
Great Smoky Mountains National Park Tennessee & N. Carolina

U.S. Department of Interior
NATIONAL PARK SERVICE

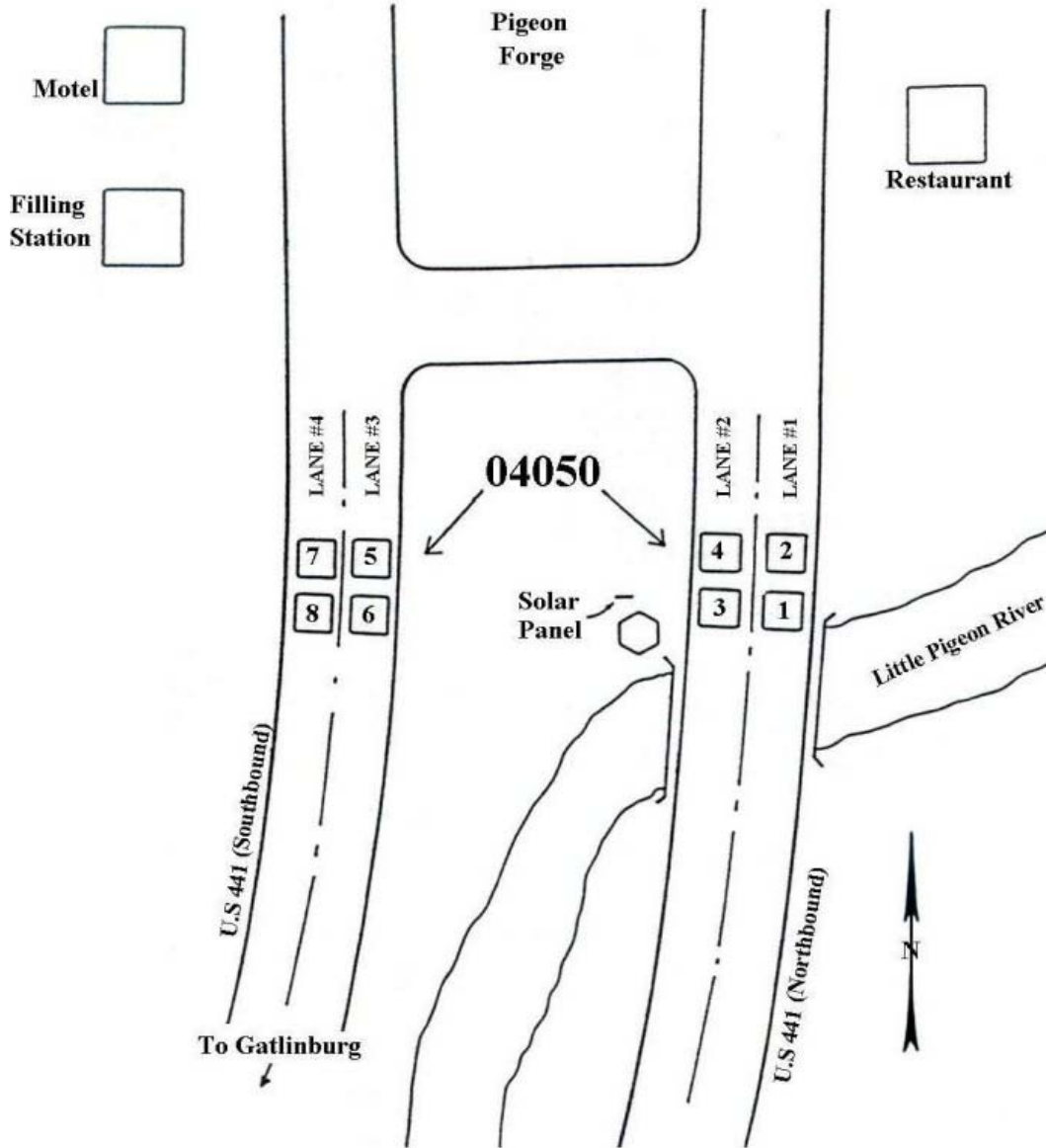








Great Smoky Mountains N.P.
Station 404
Townsend Wye



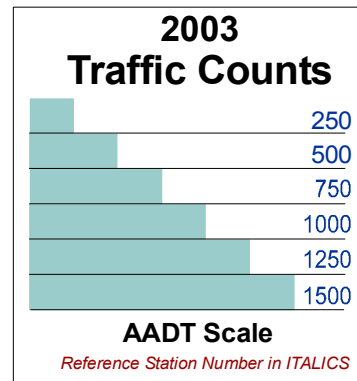
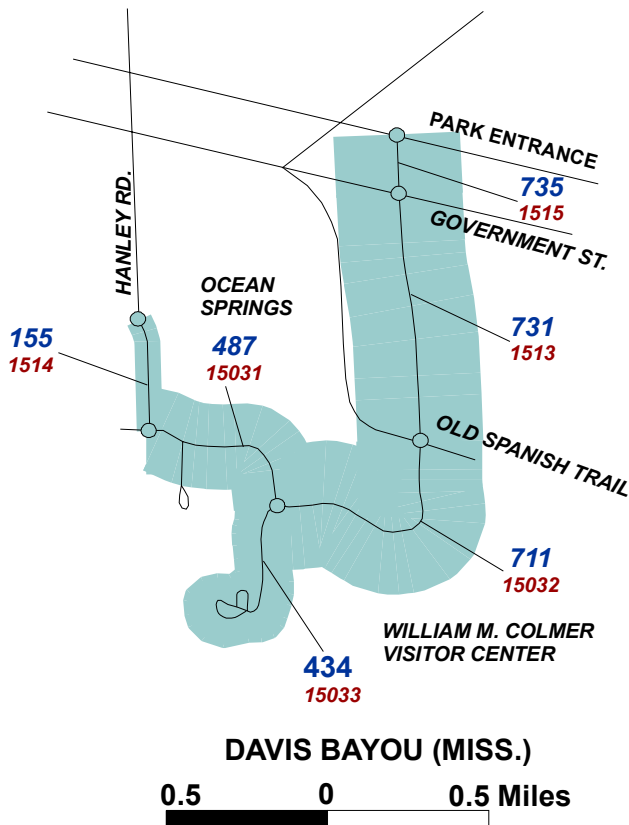
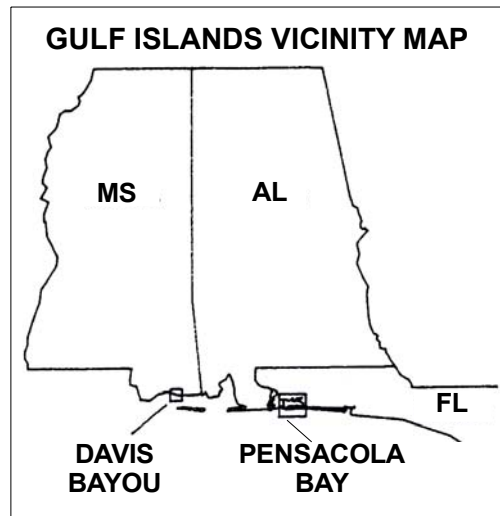
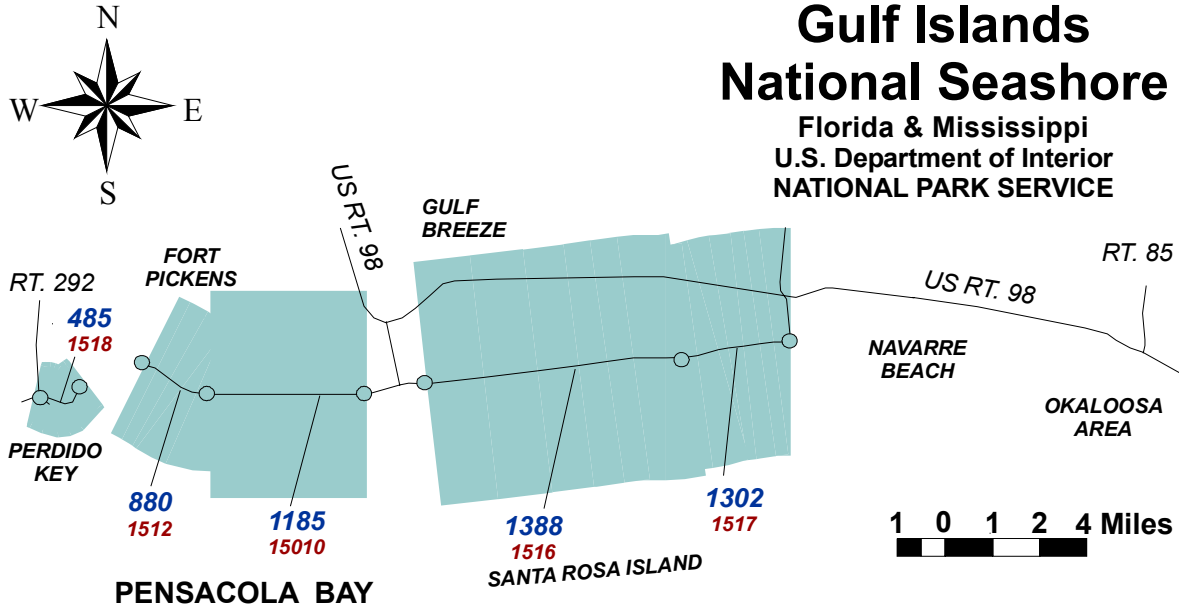
Great Smoky Mountains N.P.
Station 405
South of Pigeon Forge

Gulf Islands National Seashore Traffic Package



Gulf Islands National Seashore

Florida & Mississippi
U.S. Department of Interior
NATIONAL PARK SERVICE



GULF ISLANDS NATIONAL SEASHORE

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
11	Santa Rosa Rd. - E. Park Bdry. To Recreation Facility	1517	2.75	100	1066	1810	1302	100	1070	1817	1307
11	Santa Rosa Rd. - Recreation Facility to Beaches	15020*	2.55	100	1708	1742	1388	93	1590	1621	1292
11	Santa Rosa Rd. - Recreation Facility to West Park Boundary	1516	2.59	100	1136	1732	1388	95	1074	1637	1312
12	Ft. Pickens Rd. - East Park Bdry. To Ranger Station	15010	4.63	100	1454	1593	1185	169	2457	2692	2003
12	Ft. Pickens Rd. - Ranger Station to Ft. Pickens Loop Rd.	1512	2.41	100	668	1510	880	88	588	1328	774
13	Perdido Key Area Access Rd. - Park Bdry. To End of Loop	1518	2.45	100	689	789	485	89	616	706	434
14	Magnolia Park Rd. - Hanley Road to Starks Blvd.	15031	0.58	100	608	619	487	21	129	131	103
15	Starks Blvd. - Government Street to Old Spanish Trail	1513	0.87	100	1695	893	731	32	538	284	232
15	Starks Blvd. - Old Spanish Trail to Hanley Road	15032	0.73	100	684	716	711	27	182	191	189
15	Starks Blvd. - Hanley Road to End of Loop	15033	0.33	100	469	434	434	12	56	52	52
16	Hanley Rd. - North Park Boundary to Magnolia Park Road	1514	0.33	100	596	752	155	12	72	91	19
VMT SUMMARY								738	8372	10550	7717

Note: AADT -- Annual Average Daily Traffic

VMT-- Vehicle Miles of Travel

* Station 15020 is not longer in use. Counts for this location were obtained from station 1516.

GULF ISLANDS NATIONAL SEASHORE

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
15010	Ft. Pickens Rd. - East Park Bdry. To Ranger Station					1318	1185	Self
15031	Magnolia Park Rd. - Hanley Road to Starks Blvd.					516	487	Self
15032	Starks Blvd. - Old Spanish Trail to Hanley Road					740	711	Self
15033	Starks Blvd. - Hanley Road to End of Loop					451	434	Self
1512	Ft. Pickens Rd. - Ranger Station to Ft. Pickens Loop Rd.	4/5/03	1686	0.58036	0.52191	978	880	15010
1513	Starks Blvd. - Government Street to Old Spanish Trail	4/5/03	1151	0.6619	0.63551	762	731	15032
1514	Hanley Rd. - North Park Boundary to Magnolia Park Road	4/5/03	246	0.66753	0.62991	164	155	15031
1515	Starks Blvd. - US Hwy. 90 to Government Street	4/5/03	1156	0.6619	0.63551	765	735	15032
1516	Santa Rosa Rd. - Recreation Facility to West Park Boundary	4/5/03	2660	0.58036	0.52191	1544	1388	15010
1517	Santa Rosa Rd. - E. Park Bdry. To Recreation Facility	4/5/03	2495	0.58036	0.52191	1448	1302	15010
1518	Perdido Key Area Access Rd. - Park Bdry. To End of Loop	4/5/03	930	0.58036	0.52191	540	485	15010

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.

GULF ISLANDS NATIONAL SEASHORE

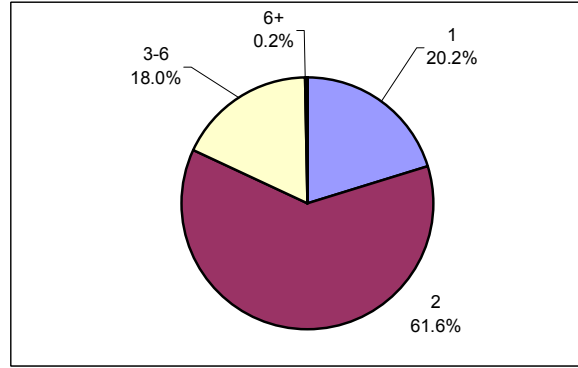
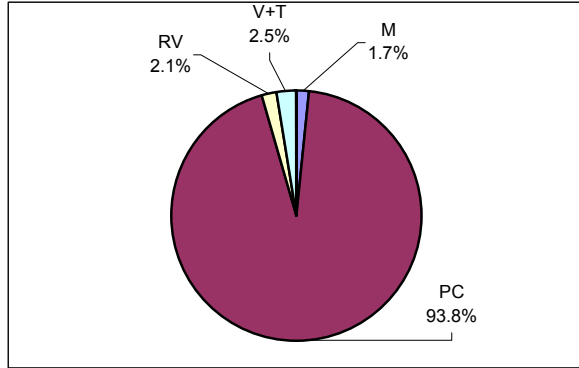
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

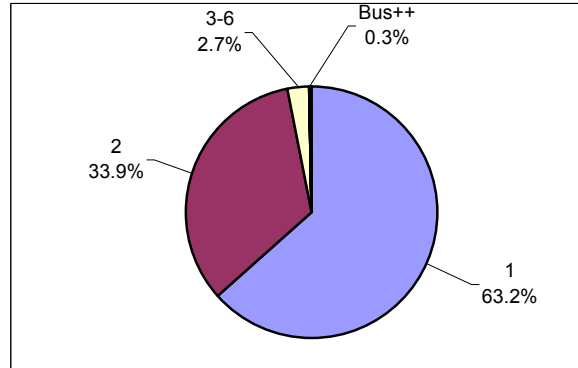
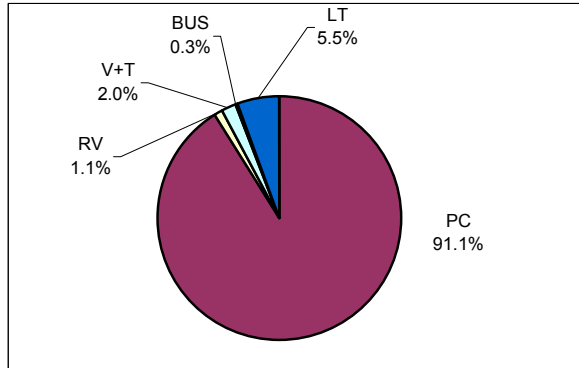
Location: STATION 1512

Location: STATION 1512



Location: STATION 1513

Location: STATION 1513



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

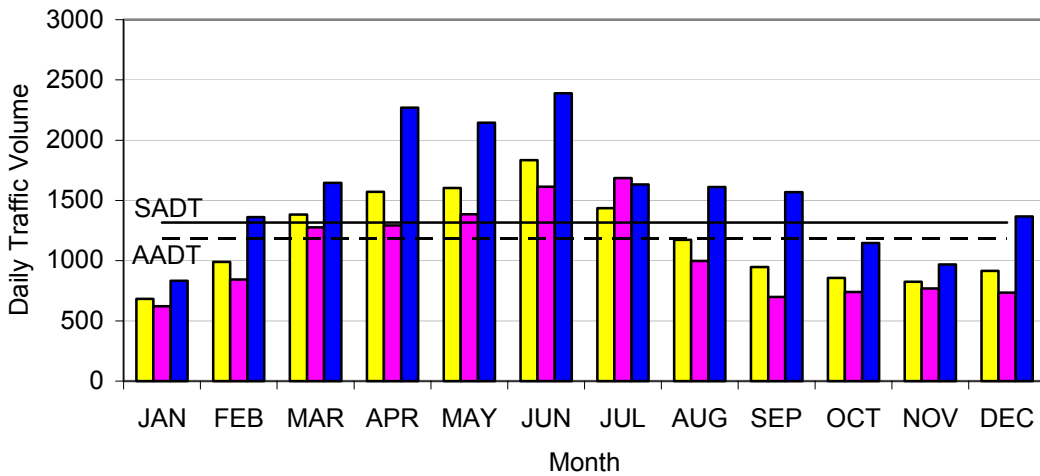
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

GULF ISLANDS NATIONAL SEASHORE

Station: 15010 Ft. Pickens Rd. - East Park Bdry. To Ranger Station

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	2002	681	620	834	1.4212	1.5803
2	2002	991	843	1361	0.8709	0.9684
3	2002	1383	1278	1647	0.7196	0.8002
4	2002	1573	1294	2271	0.5219	0.5804
5	2002	1603	1386	2146	0.5523	0.6142
6	2002	1835	1613	2389	0.4961	0.5517
7	2002	1437	1685	1632	0.7263	0.8076
8	2001	1173	998	1612	0.7353	0.8176
9	2002	947	699	1568	0.7559	0.8406
10	2002	857	742	1146	1.0342	1.1501
11	2002	826	769	970	1.2219	1.3588
12	2002	917	736	1367	0.8670	0.9642
Annual Average Daily Traffic (AADT)				1185		
Annual Average Weekday Traffic (AAWDT)				1055		
Annual Average Weekend Traffic (AAWET)				1579		
Seasonal Average Daily Traffic (SADT)				1318		

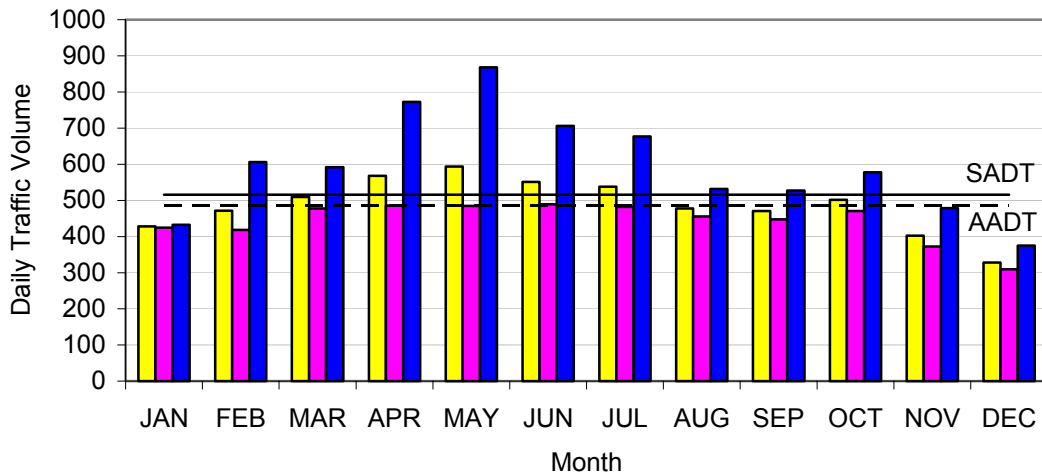


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GULF ISLANDS NATIONAL SEASHORE

Station: 15031 Magnolia Park Rd. - Hanley Road to Starks Blvd.

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	2002	428	425	433	1.1245	1.1917
2	2002	472	419	606	0.8035	0.8515
3	2002	510	478	592	0.8225	0.8716
4	2002	568	486	773	0.6299	0.6675
5	2002	594	485	868	0.5610	0.5945
6	2002	551	489	706	0.6897	0.7309
7	2002	538	482	677	0.7192	0.7622
8	2002	478	456	532	0.9153	0.9699
9	2002	471	448	527	0.9239	0.9791
10	2002	502	471	578	0.8424	0.8927
11	2002	403	373	479	1.0165	1.0772
12	2002	328	310	375	1.2984	1.3760
Annual Average Daily Traffic (AADT)				487		
Annual Average Weekday Traffic (AAWDT)				444		
Annual Average Weekend Traffic (AAWET)				596		
Seasonal Average Daily Traffic (SADT)				516		

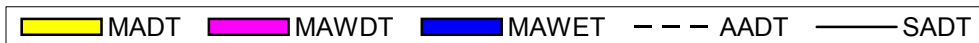
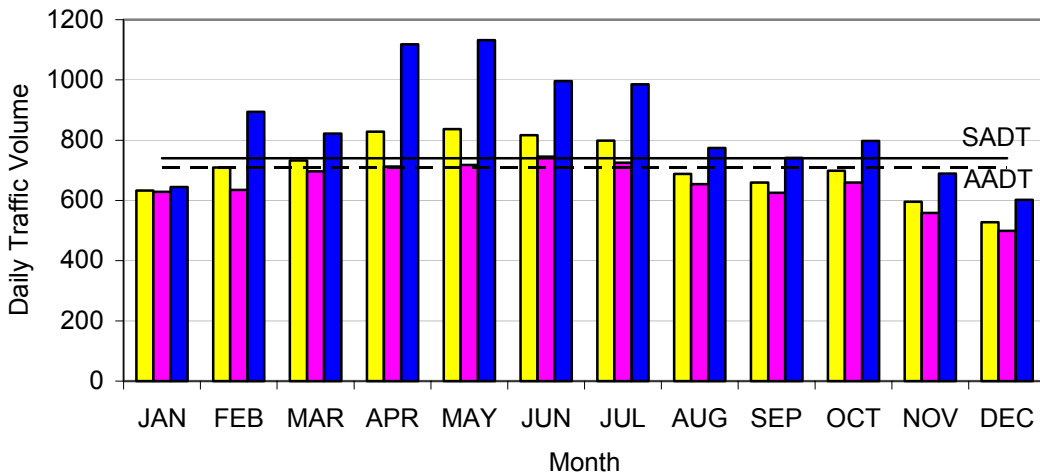


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GULF ISLANDS NATIONAL SEASHORE

Station: 15032 Starks Blvd. - Old Spanish Trail to Hanley Road

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	2002	633	629	645	1.1016	1.1473
2	2002	709	635	894	0.7947	0.8277
3	2002	733	697	822	0.8644	0.9002
4	2002	828	713	1118	0.6355	0.6619
5	2002	837	718	1132	0.6277	0.6537
6	2002	817	746	996	0.7134	0.7430
7	2002	799	725	986	0.7206	0.7505
8	2002	688	654	774	0.9180	0.9561
9	2002	659	625	741	0.9588	0.9987
10	2002	699	660	797	0.8915	0.9285
11	2002	596	559	689	1.0312	1.0740
12	2002	528	499	602	1.1802	1.2292
Annual Average Daily Traffic (AADT)				711		
Annual Average Weekday Traffic (AAWDT)				655		
Annual Average Weekend Traffic (AAWET)				850		
Seasonal Average Daily Traffic (SADT)				740		

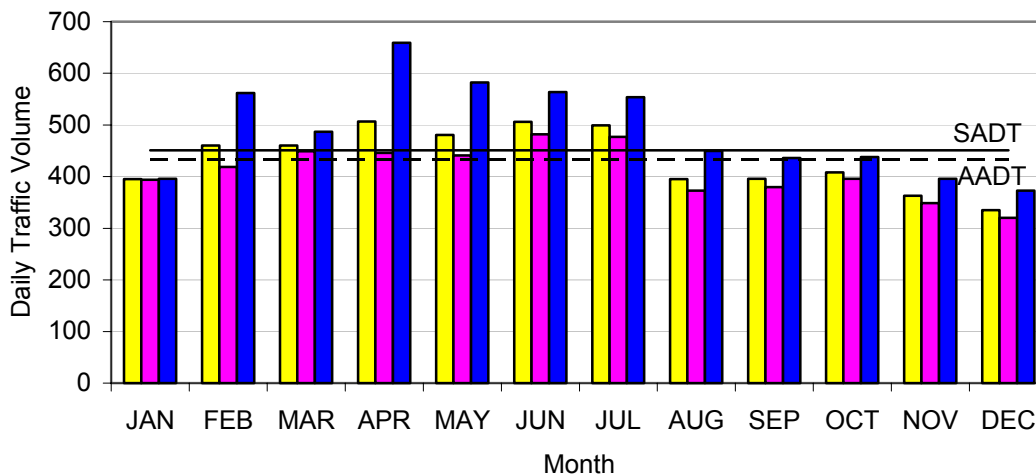


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

GULF ISLANDS NATIONAL SEASHORE

Station: 15033 Starks Blvd. - Hanley Road to End of Loop

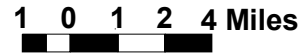
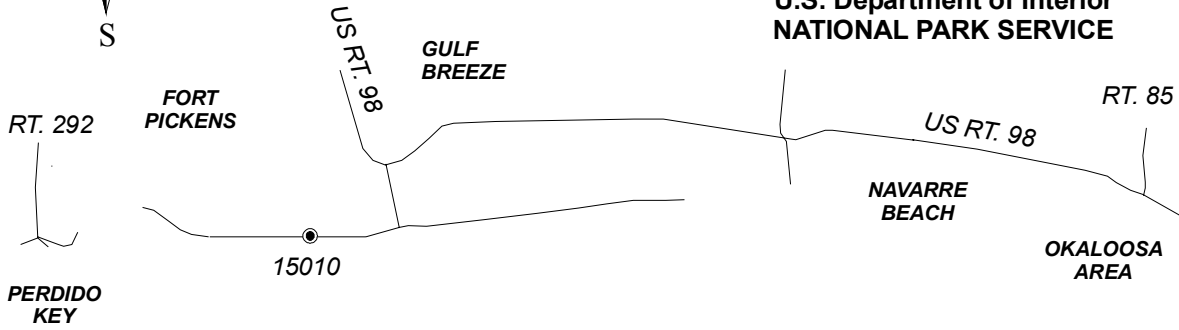
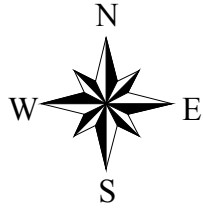
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2002	395	394	396	1.0953	1.1389
2	2002	460	419	562	0.7718	0.8025
3	2002	460	449	487	0.8907	0.9261
4	2002	507	446	659	0.6582	0.6844
5	2002	481	441	582	0.7453	0.7749
6	2002	506	482	564	0.7691	0.7996
7	2002	499	477	554	0.7829	0.8141
8	2002	395	373	450	0.9639	1.0022
9	2002	396	380	436	0.9948	1.0344
10	2002	408	396	438	0.9903	1.0297
11	2002	363	349	396	1.0953	1.1389
12	2002	335	320	373	1.1629	1.2091
Annual Average Daily Traffic (AADT)				434		
Annual Average Weekday Traffic (AAWDT)				411		
Annual Average Weekend Traffic (AAWET)				491		
Seasonal Average Daily Traffic (SADT)				451		



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.

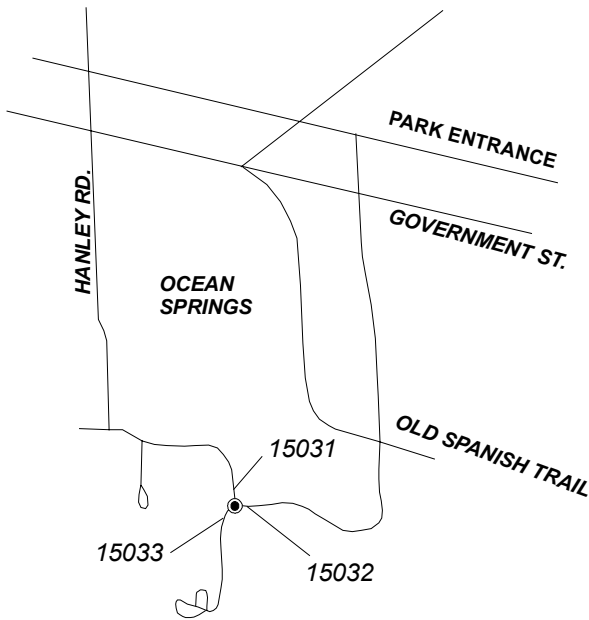
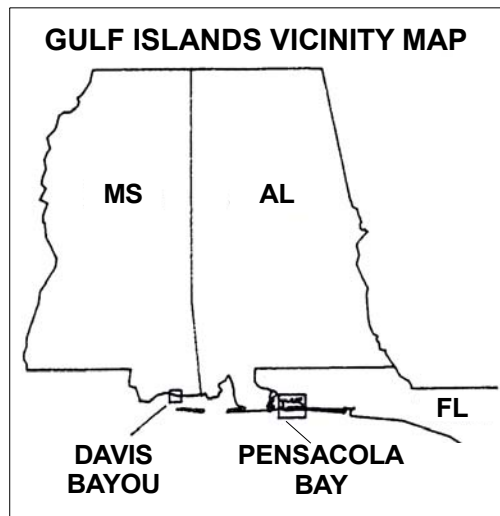
Gulf Islands National Seashore

Florida & Mississippi
U.S. Department of Interior
NATIONAL PARK SERVICE



PENSACOLA BAY

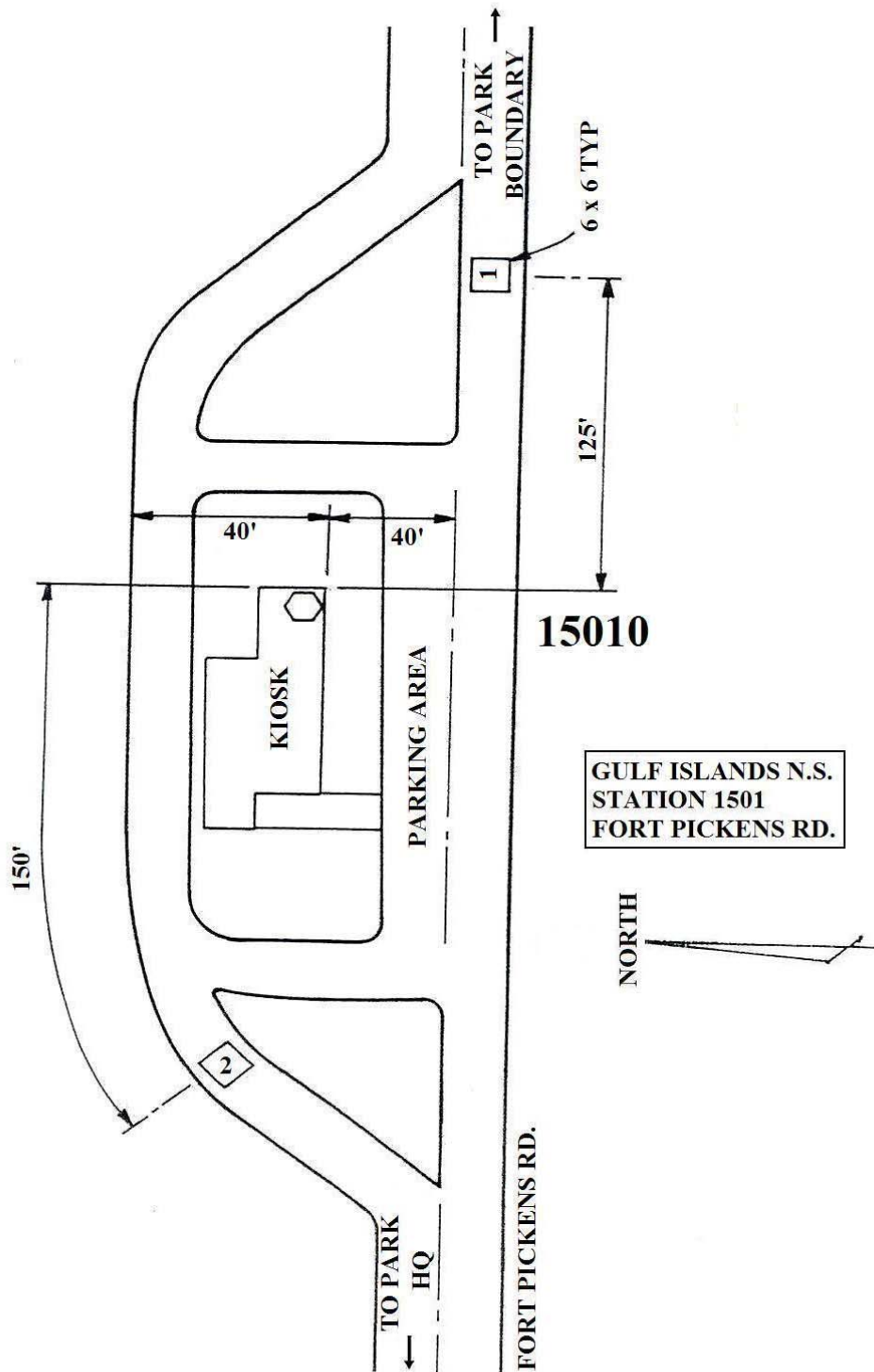
SANTA ROSA ISLAND

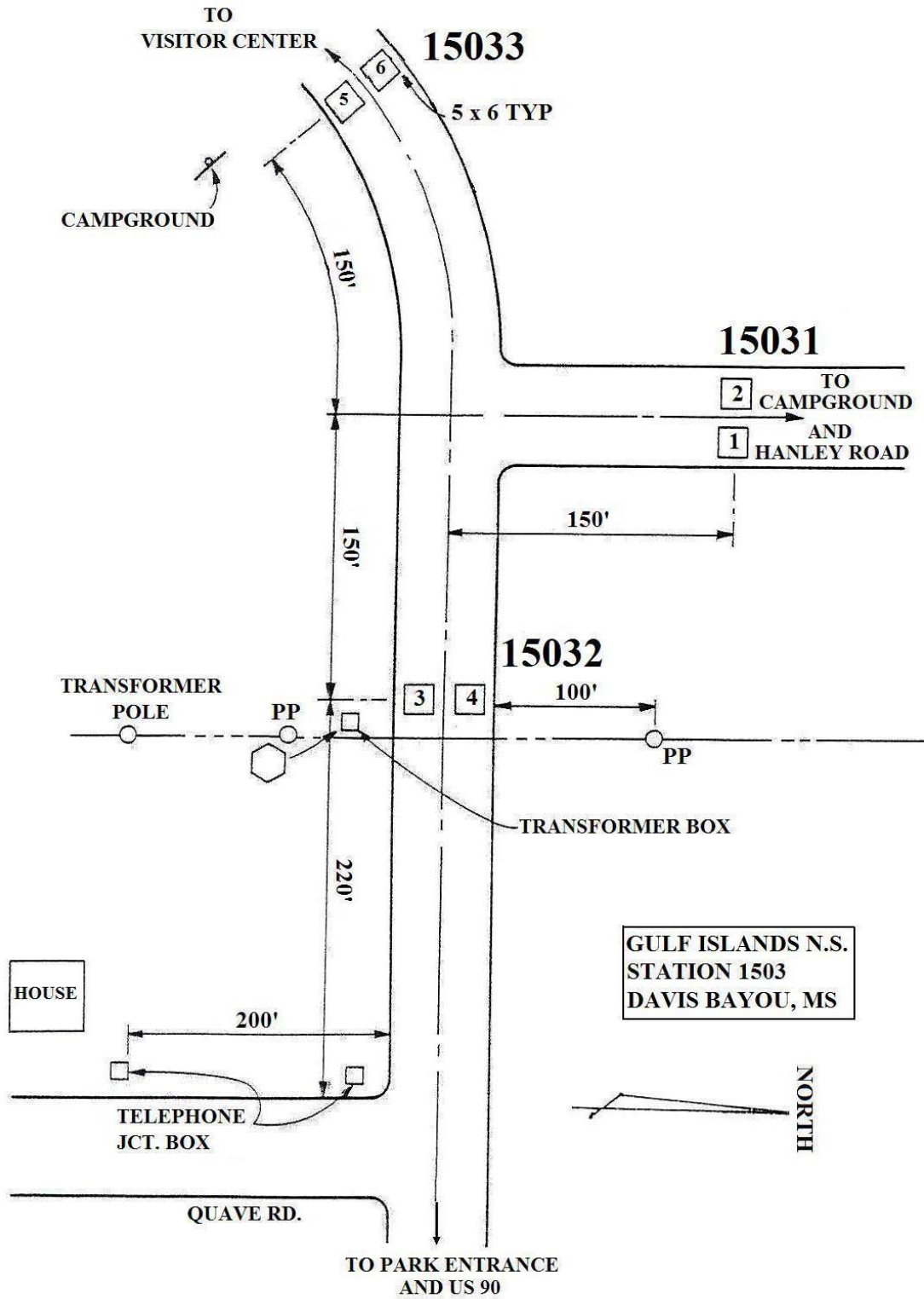


WILLIAM M. COLMER
VISITOR CENTER

DAVIS BAYOU (MISS.)

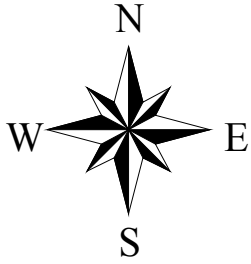






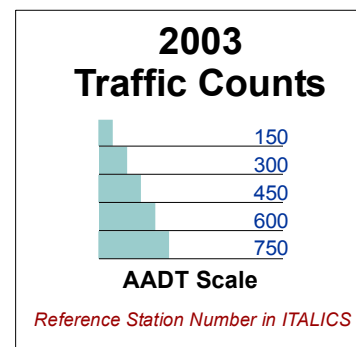
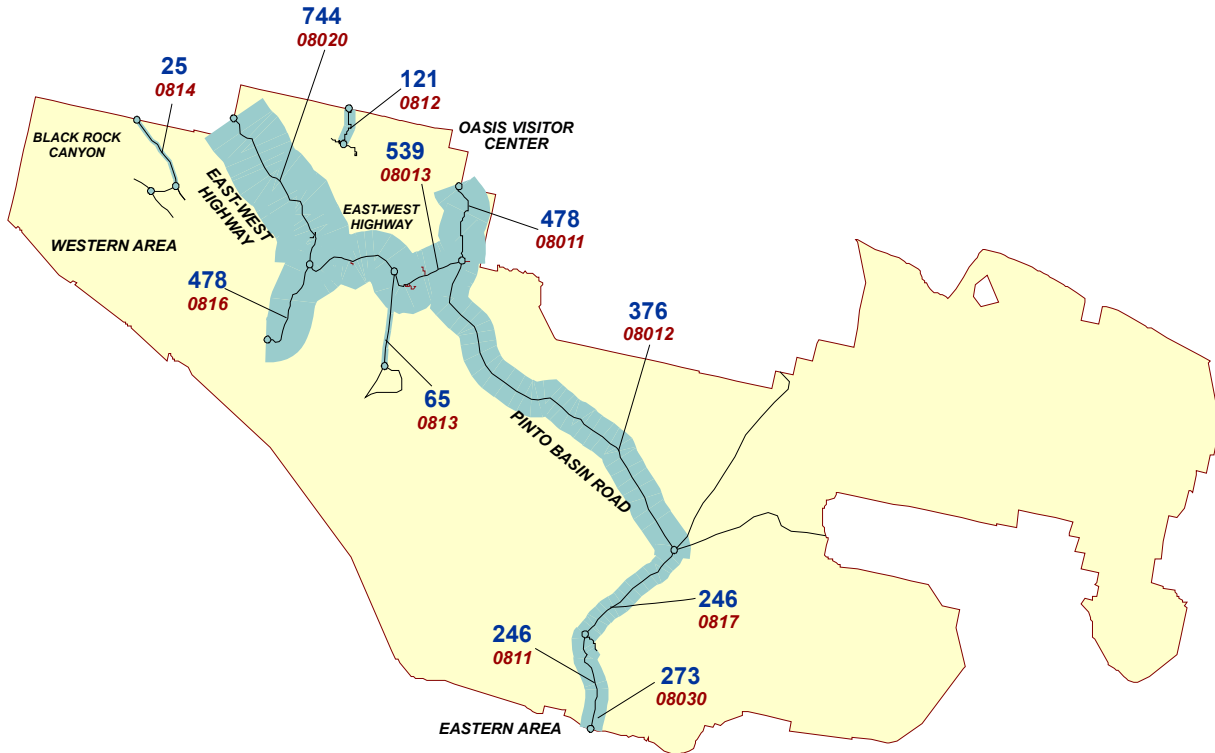
Joshua Tree National Park Traffic Package





Joshua Tree National Park

California
U.S. Department of Interior
NATIONAL PARK SERVICE



JOSHUA TREE NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
11	Pinto Basin Rd. - East West Hwy. To Old Dale Rd.	8012	22.98	220	334	363	376	1845	2801	3045	3154
11	Pinto Basin Rd. - Old Dale Rd. to Cottonwood Visitor Center	817	6.84	98	176	208	246	245	439	519	614
11	Pinto Basin Rd. - Cottonwood Visitor Center to South Bdry.	811	5.82	130	202	226	246	276	429	480	523
12	East West Hwy. - North Bdry. to Pinto Basin Rd.	8011	4.65	290	436	465	478	492	740	789	811
12	East West Hwy. - Pinto Basin Rd. to Keys View Rd.	8013	10.34	320	454	503	539	1208	1713	1898	2034
12	East West Hwy. - Keys View Rd. to West Entrance	8020	10.64	406	549	607	744	1577	2132	2357	2889
13	Keys View Rd. - East West Hwy. To Keys View	816	5.61	99	268	288	478	203	549	590	979
203	Covington Rd. - Park Bdry. To Covington Flat.	814	10.01	14	11	27	25	51	40	99	91
212	Indian Cove Rd. - Park Bdry. To Indian Cove Campground	812	4.99	96	89	64	121	175	162	117	220
300	Geology Tour Rd. - East West Hwy. To Begin One-Way Loop	813	5.53	12	31	25	65	24	63	50	131
VMT SUMMARY								6096	9069	9944	11447

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

JOSHUA TREE NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
8011	East West Hwy. - North Bdry. to Pinto Basin Rd.					533	478	Self
8012	Pinto Basin Rd. - East West Hwy. To Old Dale Rd.					425	376	Self
8013	East West Hwy. - Pinto Basin Rd. to Keys View Rd.					605	539	Self
8020	East West Hwy. - Keys View Rd. to West Entrance					903	744	Self
8030	Cottonwood Entrance					310	273	Self
811	Pinto Basin Rd. - Cottonwood Visitor Center to South Bdry.	6/21/03	226	1.2400	1.09033	280	246	8030
812	Indian Cove Rd. - Park Bdry. To Indian Cove Campground	6/21/03	108	1.3640	1.12424	147	121	8020
813	Geology Tour Rd. - East West Hwy. To Begin One-Way Loop	6/21/03	58	1.3640	1.12424	79	65	8020
814	Covington Rd. - Park Bdry. To Covington Flat.	6/21/03	22	1.3640	1.12424	30	25	8020
816	Keys View Rd. - East West Hwy. To Keys View	6/21/03	425	1.3640	1.12424	580	478	8020
817	Pinto Basin Rd. - Old Dale Rd. to Cottonwood Visitor Center	6/21/03	226	1.2400	1.09033	280	246	8030

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.

JOSHUA TREE NATIONAL PARK

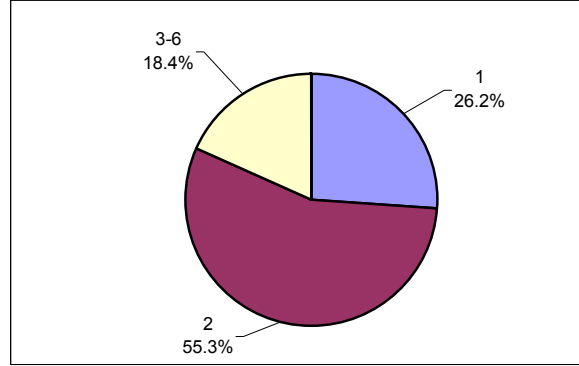
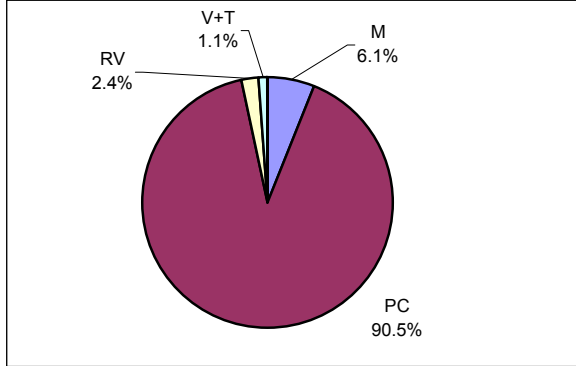
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 8020

Location: STATION 8020



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

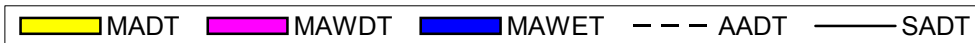
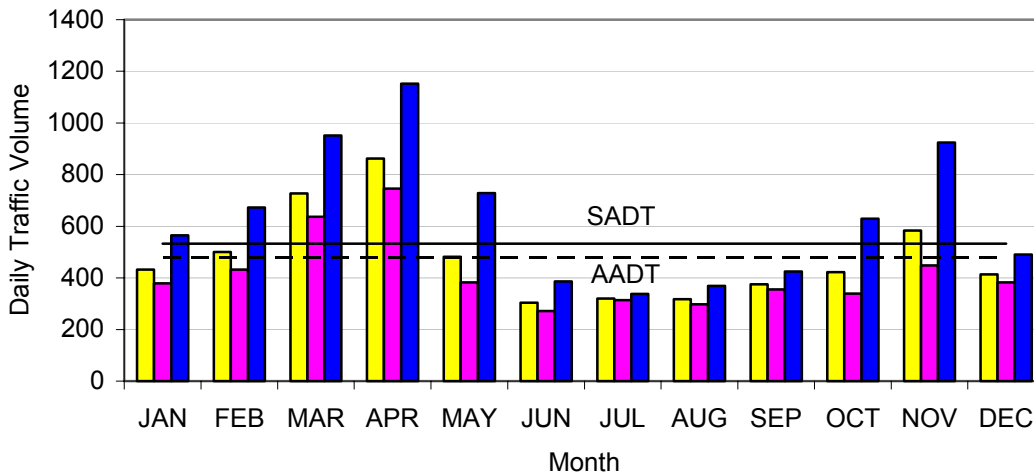
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

JOSHUA TREE NATIONAL PARK

Station: 8011 East West Hwy. - North Bdry. to Pinto Basin Rd.

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	2001	432	379	565	0.8468	0.9434
2	2001	501	432	673	0.7109	0.7920
3	2001	727	637	951	0.5031	0.5605
4	2001	862	746	1152	0.4153	0.4627
5	2001	482	383	728	0.6572	0.7321
6	2001	304	271	386	1.2394	1.3808
7	2001	320	313	338	1.4154	1.5769
8	2001	317	297	369	1.2965	1.4444
9	2001	376	356	425	1.1257	1.2541
10	2001	422	339	629	0.7606	0.8474
11	2001	584	448	924	0.5178	0.5768
12	2001	414	383	491	0.9744	1.0855
Annual Average Daily Traffic (AADT)				478		
Annual Average Weekday Traffic (AAWDT)				415		
Annual Average Weekend Traffic (AAWET)				636		
Seasonal Average Daily Traffic (SADT)				533		

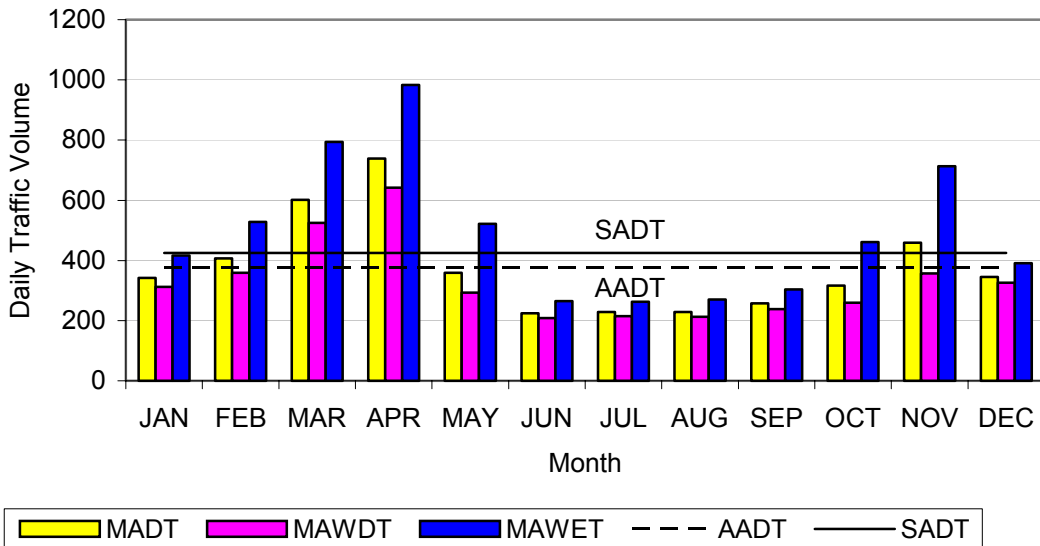


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

JOSHUA TREE NATIONAL PARK

Station: 8012 Pinto Basin Rd. - East West Hwy. To Old Dale Rd.

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	2001	342	312	417	0.9009	1.0192
2	2001	407	359	528	0.7115	0.8049
3	2001	602	525	794	0.4731	0.5353
4	2001	739	642	983	0.3822	0.4323
5	2001	359	293	522	0.7197	0.8142
6	2001	224	208	265	1.4176	1.6038
7	2001	228	215	263	1.4284	1.6160
8	2001	229	213	270	1.3914	1.5741
9	2001	257	238	304	1.2357	1.3980
10	2001	317	259	461	0.8149	0.9219
11	2001	459	357	713	0.5269	0.5961
12	2001	345	326	391	0.9608	1.0870
Annual Average Daily Traffic (AADT)				376		
Annual Average Weekday Traffic (AAWDT)				329		
Annual Average Weekend Traffic (AAWET)				493		
Seasonal Average Daily Traffic (SADT)				425		

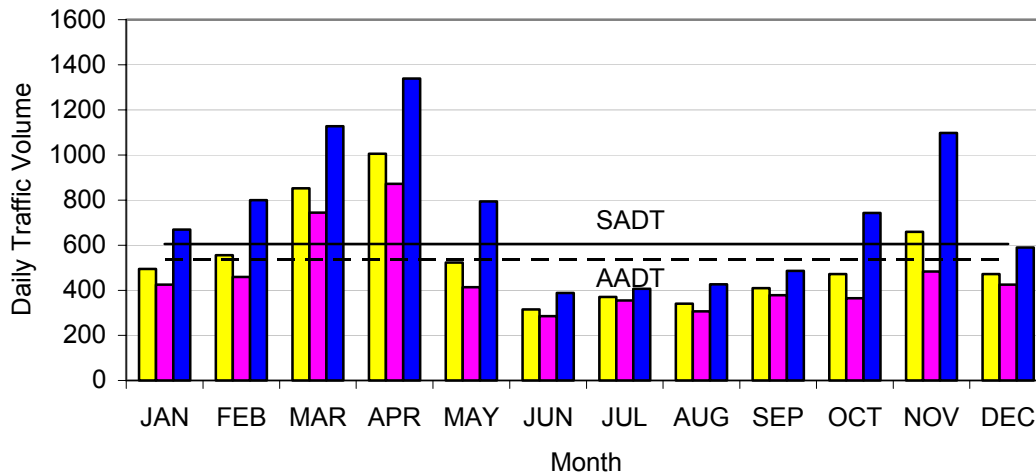


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

JOSHUA TREE NATIONAL PARK

Station: 8013 East West Hwy. - Pinto Basin Rd. to Keys View Rd.

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	2001	495	425	670	0.8051	0.9030
2	2001	556	459	800	0.6743	0.7563
3	2001	853	744	1127	0.4786	0.5368
4	2001	1006	873	1339	0.4029	0.4518
5	2000	523	414	795	0.6785	0.7610
6	2001	315	285	389	1.3867	1.5553
7	2001	370	355	407	1.3253	1.4865
8	2001	340	306	427	1.2633	1.4169
9	2001	410	379	486	1.1099	1.2449
10	2001	473	365	743	0.7260	0.8143
11	2001	659	483	1098	0.4913	0.5510
12	2001	473	426	590	0.9143	1.0254
Annual Average Daily Traffic (AADT)				539		
Annual Average Weekday Traffic (AAWDT)				460		
Annual Average Weekend Traffic (AAWET)				739		
Seasonal Average Daily Traffic (SADT)				605		

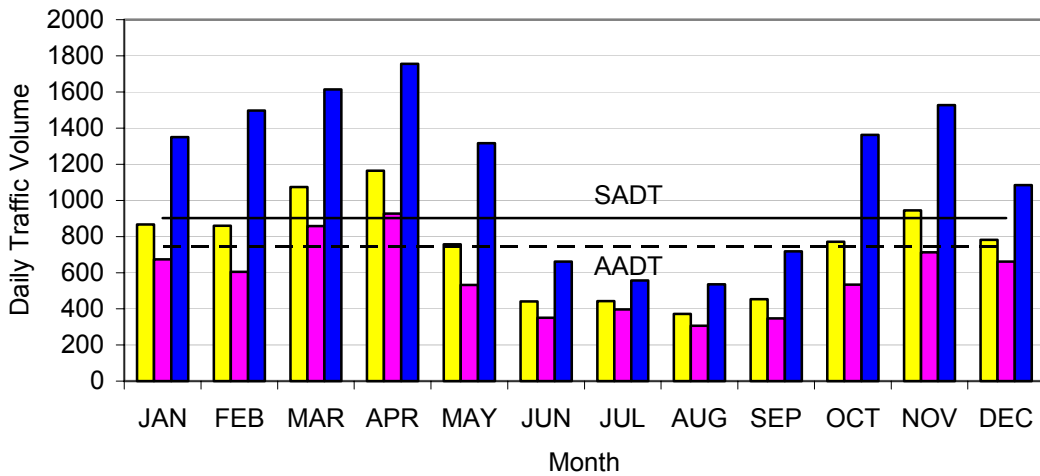


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

JOSHUA TREE NATIONAL PARK

Station: 8020 East West Hwy. - Keys View Rd. to West Entrance

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	867	674	1350	0.5513	0.6689
2	2003	860	605	1497	0.4972	0.6032
3	2003	1074	858	1615	0.4608	0.5591
4	2003	1164	928	1756	0.4238	0.5142
5	2003	757	533	1317	0.5651	0.6856
6	2003	440	351	662	1.1242	1.3640
7	2002	443	397	557	1.3362	1.6212
8	2002	372	306	537	1.3859	1.6816
9	2002	453	347	718	1.0366	1.2577
10	2002	772	535	1362	0.5464	0.6630
11	2002	946	714	1528	0.4871	0.5910
12	2002	783	662	1085	0.6859	0.8323
Annual Average Daily Traffic (AADT)				744		
Annual Average Weekday Traffic (AAWDT)				576		
Annual Average Weekend Traffic (AAWET)				1165		
Seasonal Average Daily Traffic (SADT)				903		

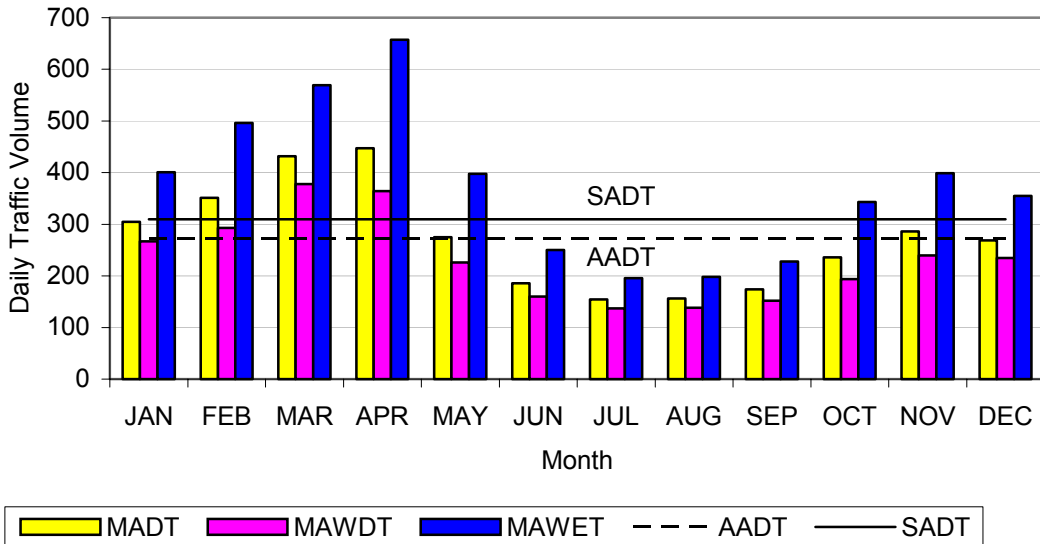


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

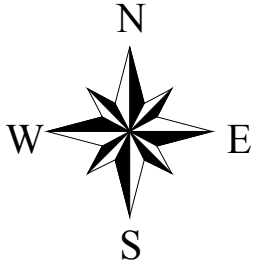
JOSHUA TREE NATIONAL PARK

Station: 8030 Cottonwood Entrance

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	305	267	401	0.6798	0.7731
2	2003	351	293	496	0.5496	0.6250
3	2003	432	378	569	0.4791	0.5448
4	2003	447	364	657	0.4149	0.4718
5	2003	275	226	398	0.6849	0.7789
6	2003	186	160	250	1.0903	1.2400
7	2002	154	137	196	1.3907	1.5816
8	2002	156	138	198	1.3767	1.5657
9	2002	174	152	228	1.1955	1.3596
10	2002	236	194	343	0.7947	0.9038
11	2002	286	240	399	0.6832	0.7769
12	2002	269	235	355	0.7678	0.8732
Annual Average Daily Traffic (AADT)				273		
Annual Average Weekday Traffic (AAWDT)				232		
Annual Average Weekend Traffic (AAWET)				374		
Seasonal Average Daily Traffic (SADT)				310		

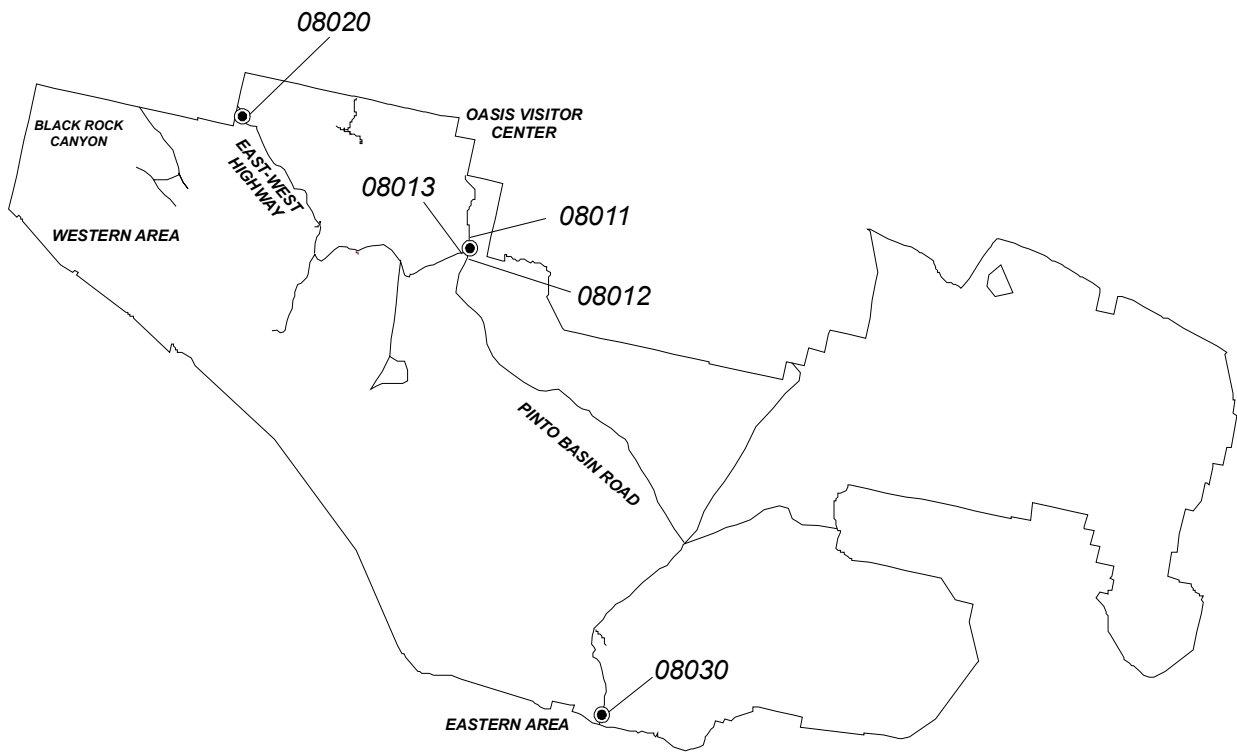


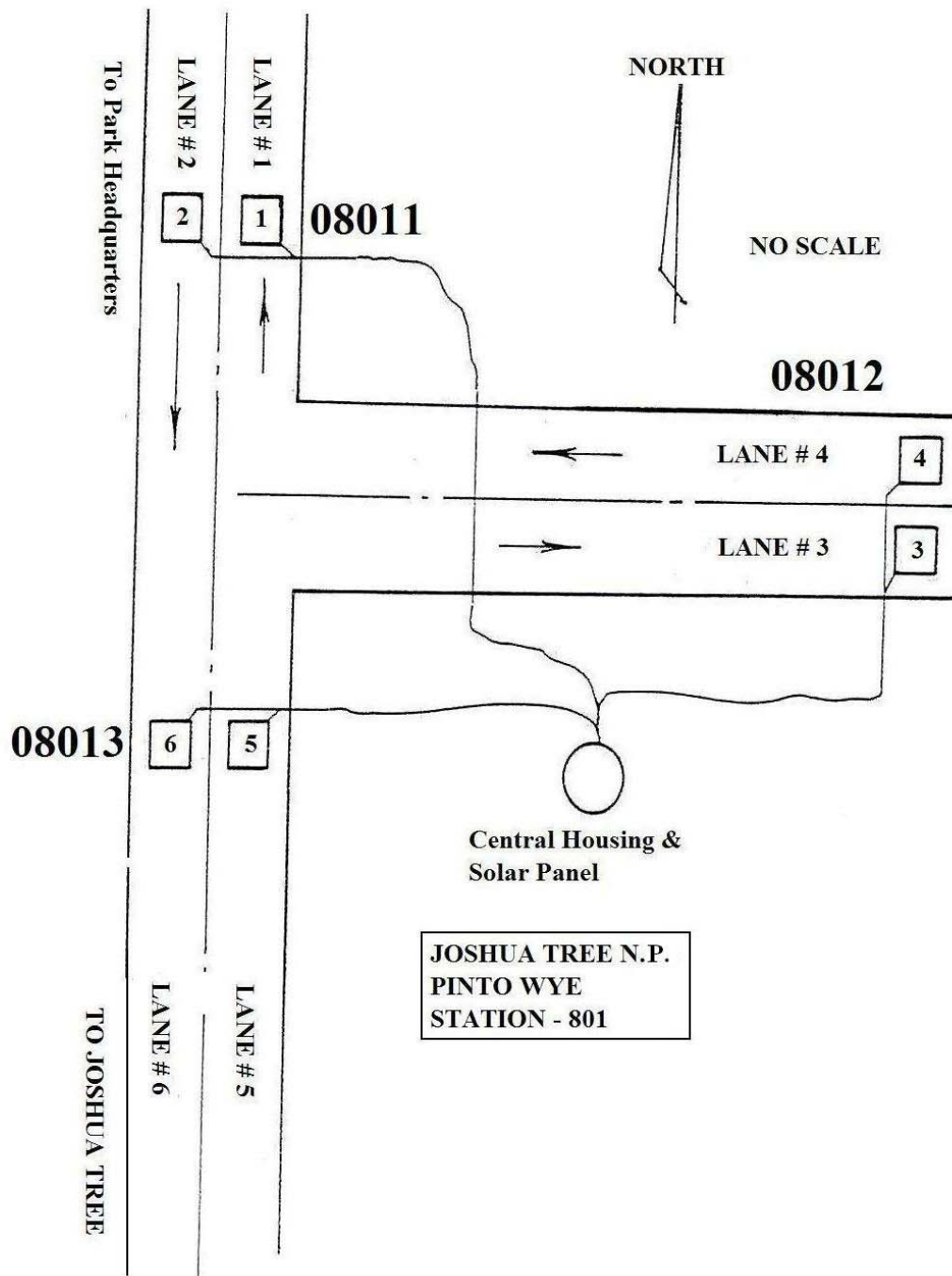
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

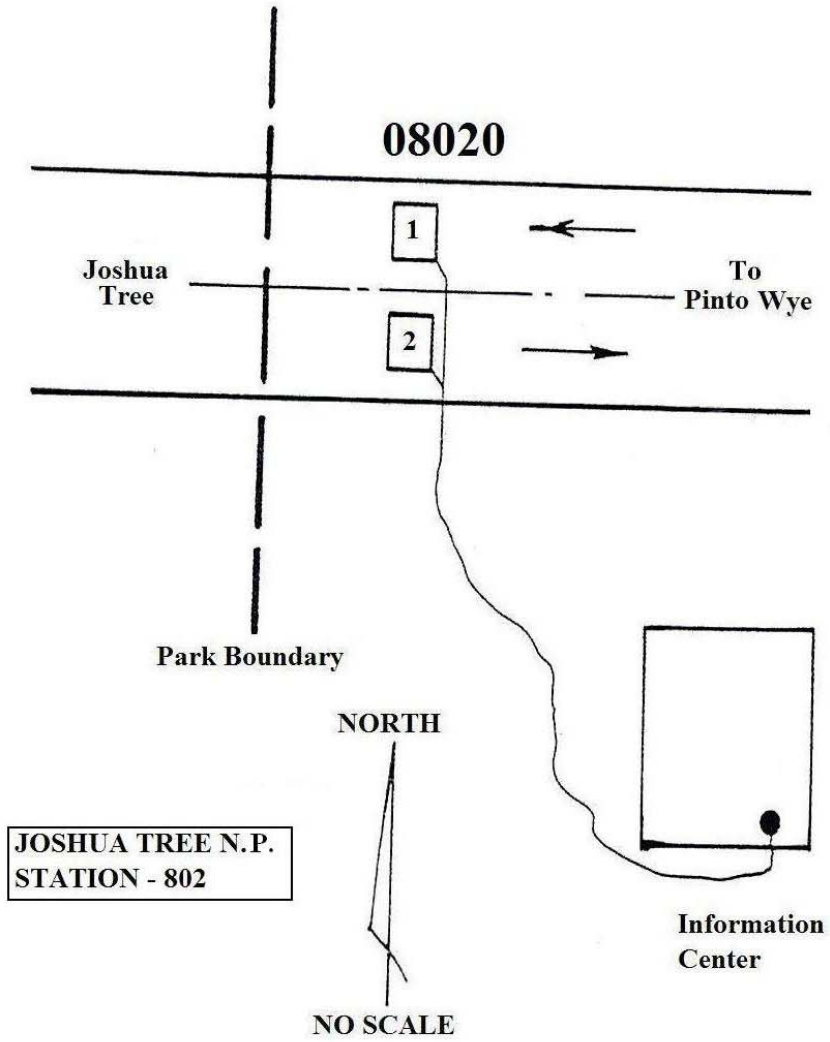


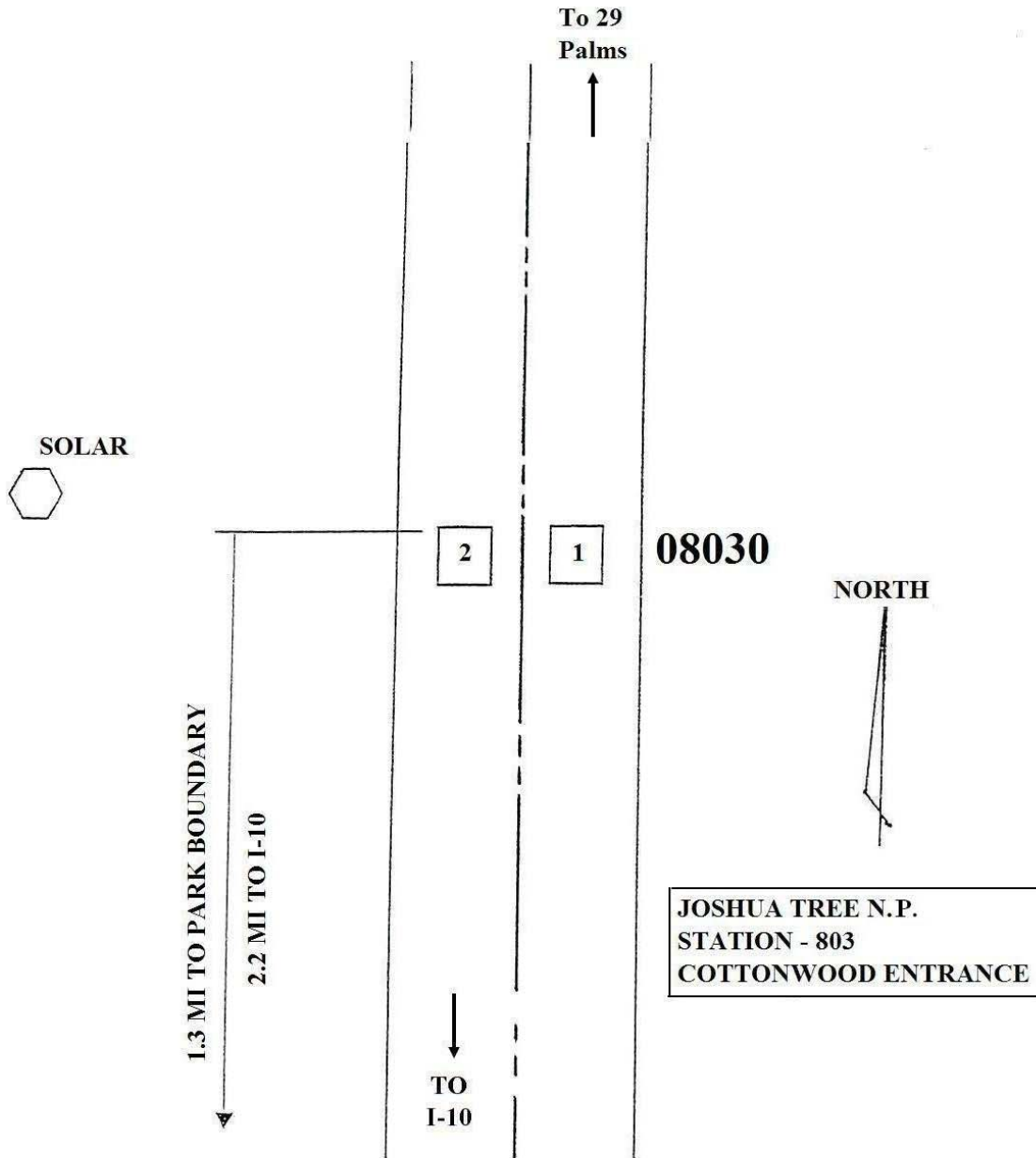
Joshua Tree National Park

California
U.S. Department of Interior
NATIONAL PARK SERVICE







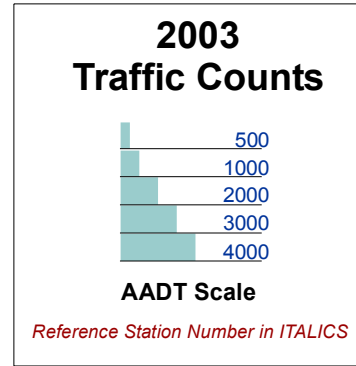
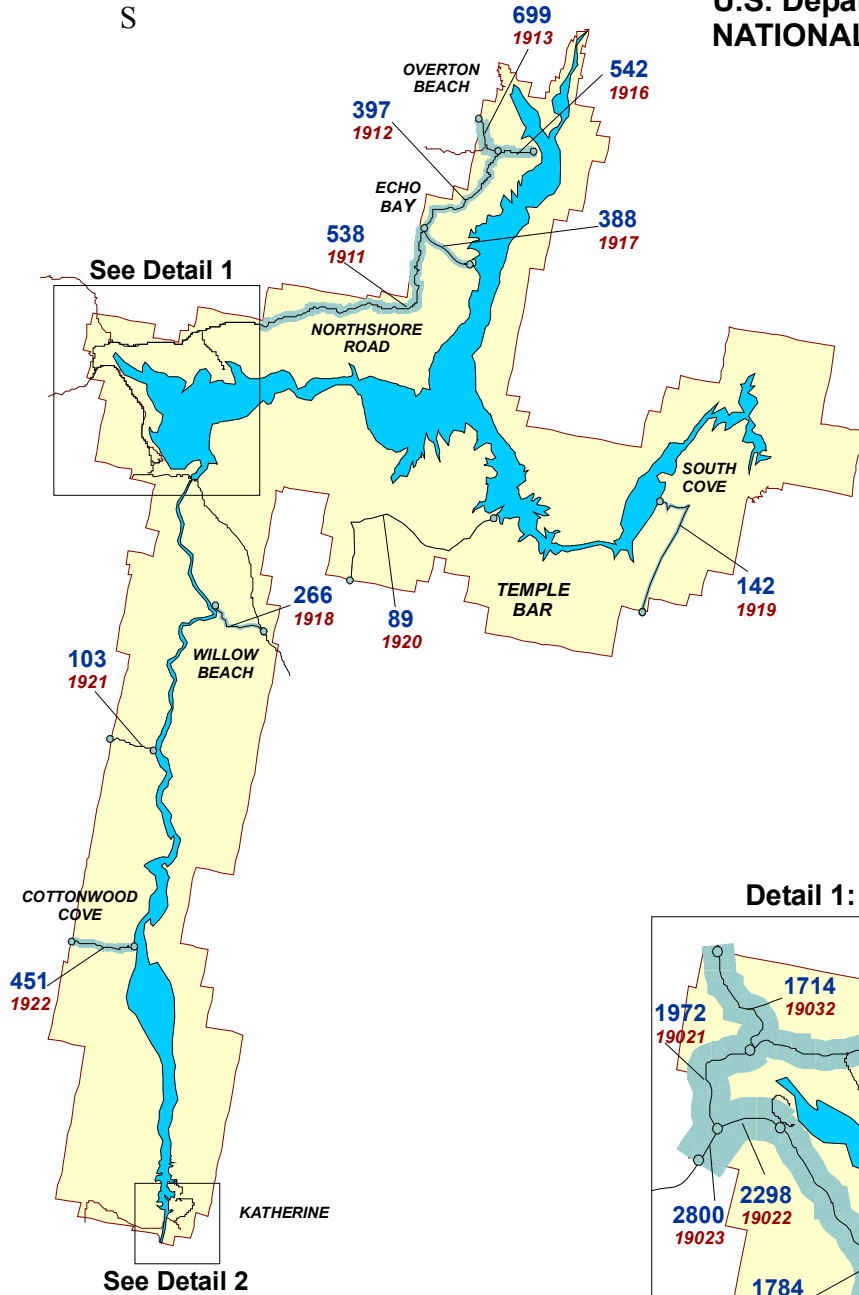
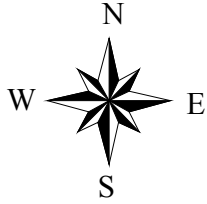


Lake Mead National Recreation Area Traffic Package

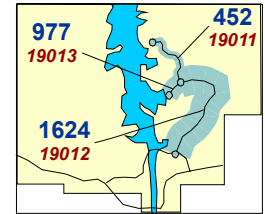


Lake Mead National Recreation Area

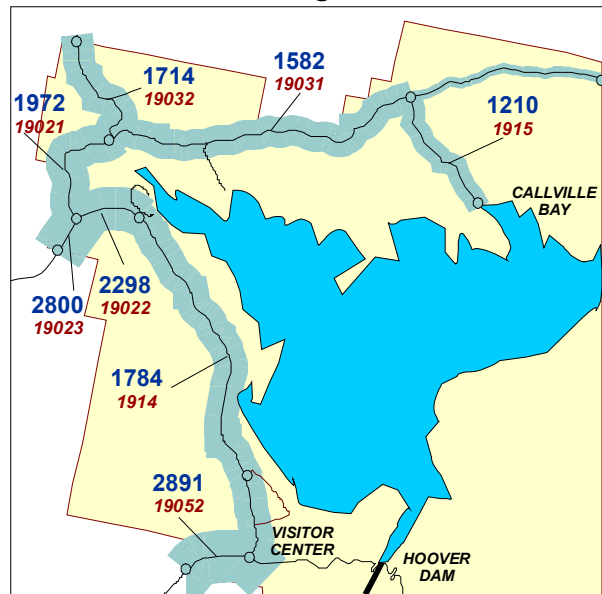
Nevada & Arizona
U.S. Department of Interior
NATIONAL PARK SERVICE



Detail 2: Katherine



Detail 1: Las Vegas Entrance



LAKE MEAD NATIONAL RECREATION AREA TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
1	Northshore Rd. - Lakeshore Rd. to Lake Mead Blvd.	19021	3.2	1607	1740	1836	1972	1877	2032	2144	2303
1	Northshore Rd. - Lake Mead Blvd. To Callville Bay Rd.	19031	7.9	1662	1721	1817	1582	4792	4963	5239	4562
1	Northshore Rd. - Callville Bay Rd. to Echo Bay Rd.	1911	24.2	1474	340	723	538	13020	3003	6386	4752
1	Northshore Rd. - Echo Bay Rd. to Overton Beach Road	1912	9.76	1474	282	402	397	5251	1005	1432	1414
1	Northshore Rd. - Overton Beach Road to North Park Bdry.	1913	2.59	1470	349	661	699	1390	330	625	661
2	Lake Mead Blvd. - Northshore Rd. to West Park Bdry.	19032	2.58	2044	1763	1861	1714	1925	1660	1753	1614
3	Lakeshore Rd. - U.S. Hwy. 93 to Boulder Beach Rd.	19051*	1.88	3123	3176	3353	1784	2143	2179	2301	1224
3	Lakeshore Rd. - Boulder Beach Rd. to Las Vegas Wash.	1914	7.34	2800	2676	2453	1784	7501	7169	6572	4780
3	Lakeshore Rd. - Las Vegas Wash to Northshore Rd.	19022	1.85	2682	3445	3637	2298	1811	2326	2456	1552
3	Lakeshore Rd. - Northshore Rd. to West Park Bdry.	19023	0.62	2638	3083	3255	2800	597	698	737	634
10	Callville Bay Rd. - Northshore Rd. to Callville Bay	1915	3.88	100	496	1501	1210	142	702	2126	1714
11	Overton Beach Rd. - Northshore Rd. to Lake Mead	1916	2.92	100	283	490	542	107	302	522	578
112	Echo Bay Rd. - Northshore Rd. to Lake Mead	1917	4.72	100	289	607	388	172	498	1046	668
113	Willow Beach Rd. - U. S. Hwy. 93 to Willow Beach	1918	4.64	100	222	218	266	169	376	369	450
114	Katherine Access Rd. - Ariz. Hwy. 68 to Cabinsite Rd.	19012	3.34	1982	2232	1744	1624	2416	2721	2126	1980
114	Katherine Access Rd. - Cabinsite Rd. to Launch Ramp	19013	0.7	1882	1867	1536	977	481	477	392	250
115	Pearce Ferry Rd. - South Park Boundary to Lake Mead	1919	13.54	10	262	412	142	49	1295	2036	702
116	Temple Bar Rd. - South Park Boundary to Lake Mead	1920	17.09	10	104	145	89	62	649	904	555
235	Eldorado Canyon Rd. - West Park Boundary to Lake Mohave	1921	4.14	20	26	84	103	30	39	127	156
237	Cottonwood Cove Rd. - West Park Boundary to Lake Mohave	1922	5.26	20	200	417	451	38	384	801	866
260	Cabinsite Rd. - Katherine Access Rd. to Cabinsite	19011	1.38	444	506	546	452	224	255	275	228
VMT SUMMARY								44198	33063	40369	31641

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

* ATR Station 19051 experienced equipment problems during the study. The 2003 value is based on the nearby coverage count station 1914.

LAKE MEAD NATIONAL RECREATION AREA

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
19011	Cabinsite Rd. - Katherine Access Rd. to Cabinsite					748	452	Self
19012	Katherine Access Rd. - Ariz. Hwy. 68 to Cabinsite Rd.					2062	1624	Self
19013	Katherine Access Rd. - Cabinsite Rd. to Launch Ramp					1195	977	Self
19052	US Highway 93					3075	2891	Self
19021	Northshore Rd. - Lakeshore Rd. to Lake Mead Blvd.	6/14/03	3110	0.67464	0.63423	2098	1972	19052
19022	Lakeshore Rd. - Las Vegas Wash to Northshore Rd.	6/14/03	3624	0.67464	0.63423	2445	2298	19052
19023	Lakeshore Rd. - Northshore Rd. to West Park Bdry.	6/14/03	4414	0.67464	0.63423	2978	2800	19052
19031	Northshore Rd. - Lake Mead Blvd. To Callville Bay Rd.	6/14/03	2495	0.67464	0.63423	1683	1582	19052
19032	Lake Mead Blvd. - Northshore Rd. to West Park Bdry.	6/14/03	2703	0.67464	0.63423	1824	1714	19052
1911	Northshore Rd. - Callville Bay Rd. to Echo Bay Rd.	6/14/03	849	0.67464	0.63423	573	538	19052
1912	Northshore Rd. - Echo Bay Rd. to Overton Beach Road	6/14/03	626	0.67464	0.63423	422	397	19052
1913	Northshore Rd. - Overton Beach Road to North Park Bdry.	6/14/03	1102	0.67464	0.63423	743	699	19052
1914	Lakeshore Rd. - Boulder Beach Rd. to Las Vegas Wash.	6/14/03	2813	0.67464	0.63423	1898	1784	19052
1915	Callville Bay Rd. - Northshore Rd. to Callville Bay	6/14/03	1908	0.67464	0.63423	1287	1210	19052
1916	Overton Beach Rd. - Northshore Rd. to Lake Mead	6/14/03	854	0.67464	0.63423	576	542	19052
1917	Echo Bay Rd. - Northshore Rd. to Lake Mead	6/14/03	612	0.67464	0.63423	413	388	19052
1918	Willow Beach Rd. - U. S. Hwy. 93 to Willow Beach	6/14/03	604	0.53853	0.4401	325	266	19013
1919	Pearce Ferry Rd. - South Park Boundary to Lake Mead	6/14/03	323	0.53853	0.4401	174	142	19013
1920	Temple Bar Rd. - South Park Boundary to Lake Mead	6/14/03	202	0.53853	0.4401	109	89	19013
1921	Eldorado Canyon Rd. - West Park Boundary to Lake Mohave	6/14/03	234	0.53853	0.4401	126	103	19013
1922	Cottonwood Cove Rd. - West Park Boundary to Lake Mohave	6/14/03	1025	0.53853	0.4401	552	451	19013

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.

LAKE MEAD NATIONAL RECREATION AREA

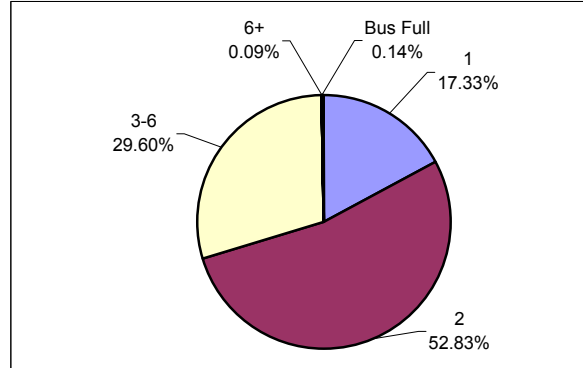
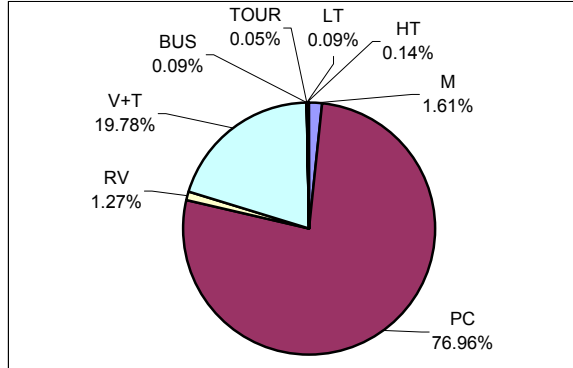
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

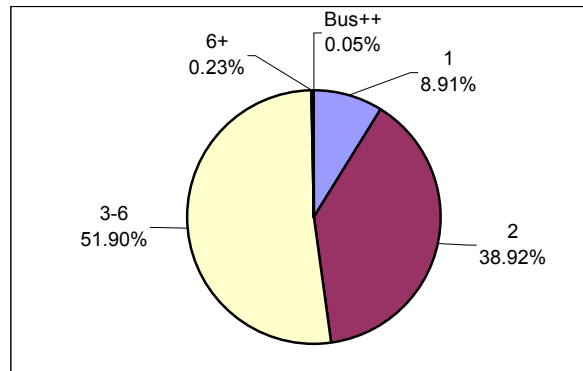
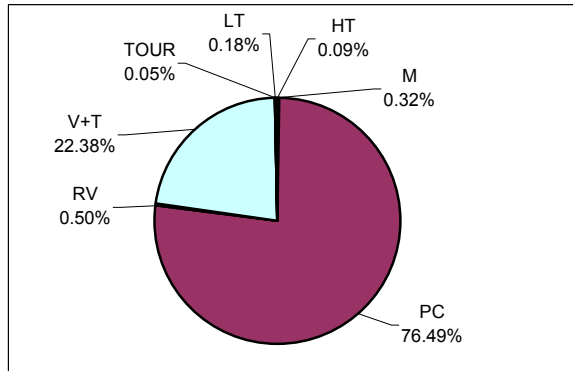
Location: STATION 19051

Location: STATION 19051



Location: STATION 19012

Location: STATION 19012



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

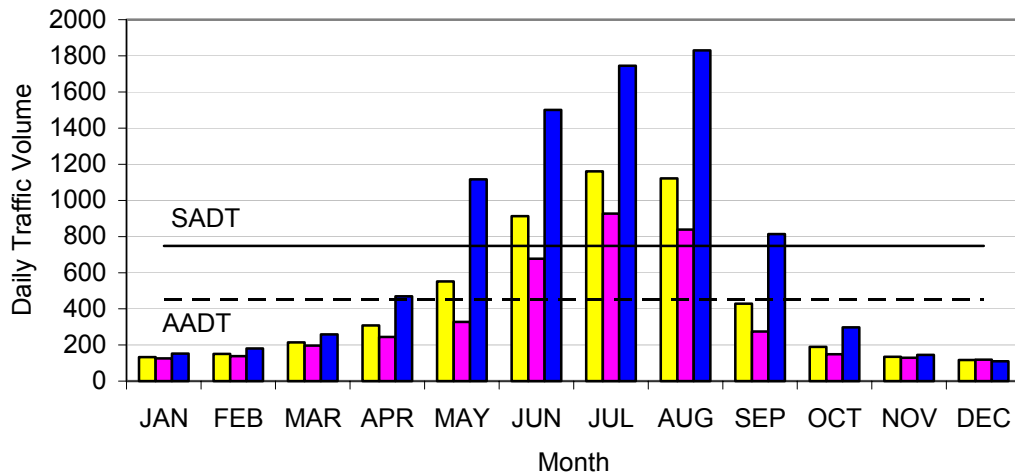
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

LAKE MEAD NATIONAL RECREATION AREA

Station: 19011 Cabinsite Rd. - Katherine Access Rd. to Cabinsite

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	133	125	153	2.9542	4.8889
2	2003	150	138	180	2.5111	4.1556
3	2003	214	196	259	1.7452	2.8880
4	2003	308	244	469	0.9638	1.5949
5	2003	553	327	1117	0.4047	0.6697
6	2002	913	677	1501	0.3011	0.4983
7	2002	1161	927	1746	0.2589	0.4284
8	2002	1122	839	1830	0.2470	0.4087
9	2002	429	275	814	0.5553	0.9189
10	2002	190	148	298	1.5168	2.5101
11	2002	134	129	145	3.1172	5.1586
12	2002	117	119	110	4.1091	6.8000
Annual Average Daily Traffic (AADT)				452		
Annual Average Weekday Traffic (AAWDT)				345		
Annual Average Weekend Traffic (AAWET)				719		
Seasonal Average Daily Traffic (SADT)				748		

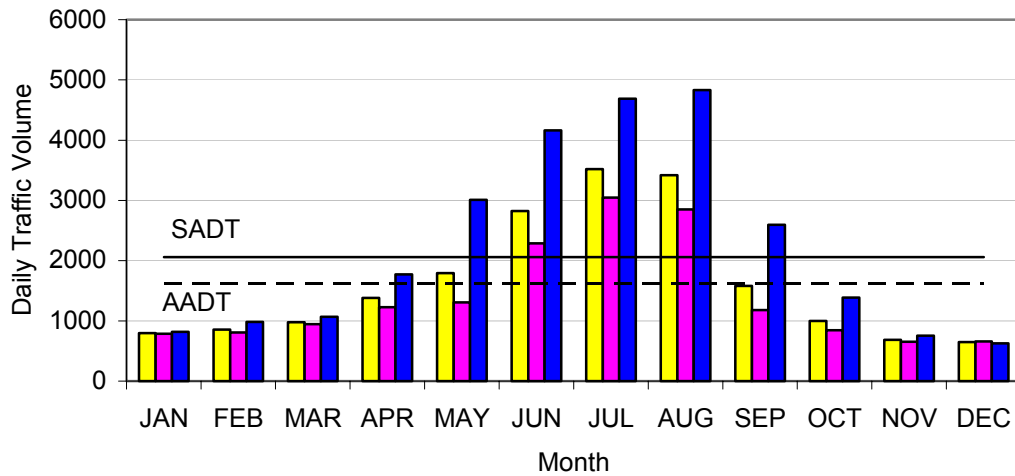


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

LAKE MEAD NATIONAL RECREATION AREA

Station: 19012 Katherine Access Rd. - Ariz. Hwy. 68 to Cabinsite Rd.

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	796	786	819	1.9823	2.5177
2	2003	857	808	980	1.6566	2.1041
3	2003	979	944	1066	1.5230	1.9343
4	2003	1383	1226	1774	0.9152	1.1623
5	2003	1794	1308	3011	0.5392	0.6848
6	2002	2824	2288	4163	0.3900	0.4953
7	2002	3518	3049	4690	0.3462	0.4397
8	2002	3417	2852	4831	0.3361	0.4268
9	2002	1584	1180	2594	0.6259	0.7949
10	2002	1000	845	1387	1.1705	1.4867
11	2002	683	655	753	2.1560	2.7384
12	2002	647	656	624	2.6018	3.3045
Annual Average Daily Traffic (AADT)				1624		
Annual Average Weekday Traffic (AAWDT)				1383		
Annual Average Weekend Traffic (AAWET)				2224		
Seasonal Average Daily Traffic (SADT)				2062		

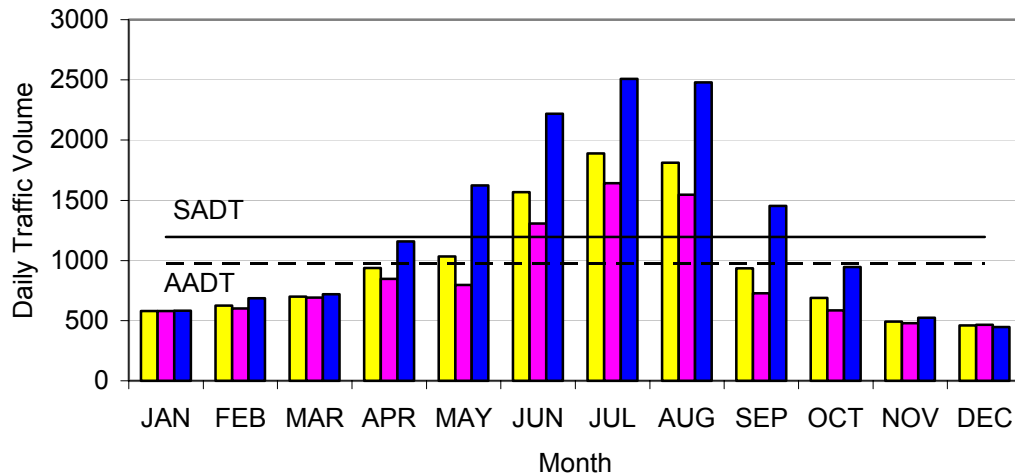


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

LAKE MEAD NATIONAL RECREATION AREA

Station: 19013 Katherine Access Rd. - Cabinsite Rd. to Launch Ramp

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	579	578	582	1.6780	2.0533
2	2003	625	601	685	1.4257	1.7445
3	2003	700	692	720	1.3564	1.6597
4	2003	937	848	1159	0.8426	1.0311
5	2003	1033	797	1624	0.6013	0.7358
6	2002	1568	1307	2219	0.4401	0.5385
7	2002	1890	1642	2509	0.3892	0.4763
8	2002	1812	1546	2479	0.3939	0.4820
9	2002	935	728	1453	0.6721	0.8224
10	2002	688	585	945	1.0334	1.2646
11	2002	492	479	523	1.8673	2.2849
12	2002	460	465	446	2.1896	2.6794
Annual Average Daily Traffic (AADT)				977		
Annual Average Weekday Traffic (AAWDT)				856		
Annual Average Weekend Traffic (AAWET)				1279		
Seasonal Average Daily Traffic (SADT)				1195		

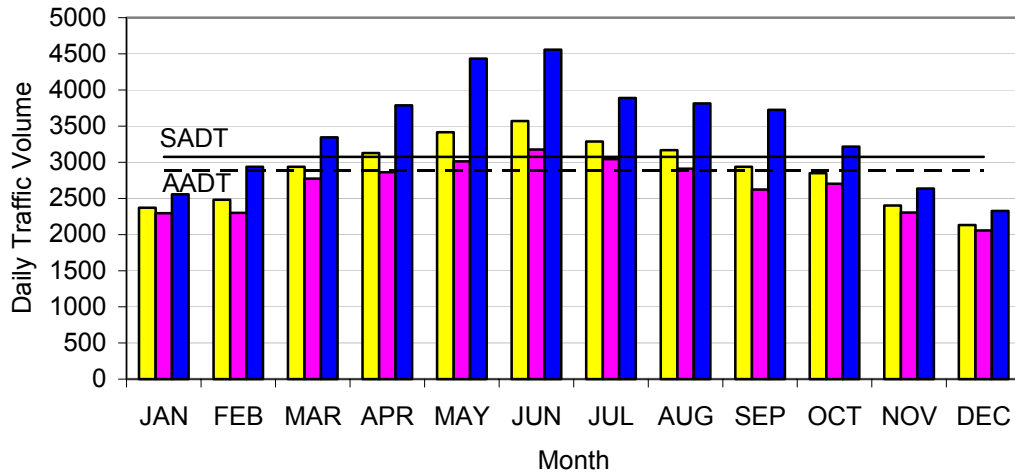


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

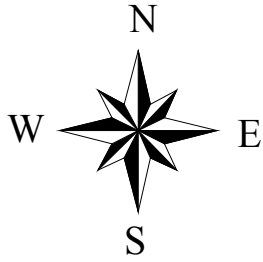
LAKE MEAD NATIONAL RECREATION AREA

Station: 19052 US Highway 93

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	2372	2298	2556	1.1310	1.2031
2	2003	2483	2302	2937	0.9843	1.0470
3	2003	2938	2775	3347	0.8637	0.9187
4	2003	3128	2864	3788	0.7632	0.8118
5	2003	3418	3012	4434	0.6520	0.6935
6	2003	3573	3179	4558	0.6342	0.6746
7	2002	3286	3045	3890	0.7431	0.7905
8	2002	3169	2910	3815	0.7578	0.8060
9	2002	2939	2624	3727	0.7756	0.8251
10	2002	2849	2702	3217	0.8986	0.9559
11	2002	2401	2307	2635	1.0971	1.1670
12	2002	2134	2057	2328	1.2418	1.3209
Annual Average Daily Traffic (AADT)				2891		
Annual Average Weekday Traffic (AAWDT)				2673		
Annual Average Weekend Traffic (AAWET)				3436		
Seasonal Average Daily Traffic (SADT)				3075		

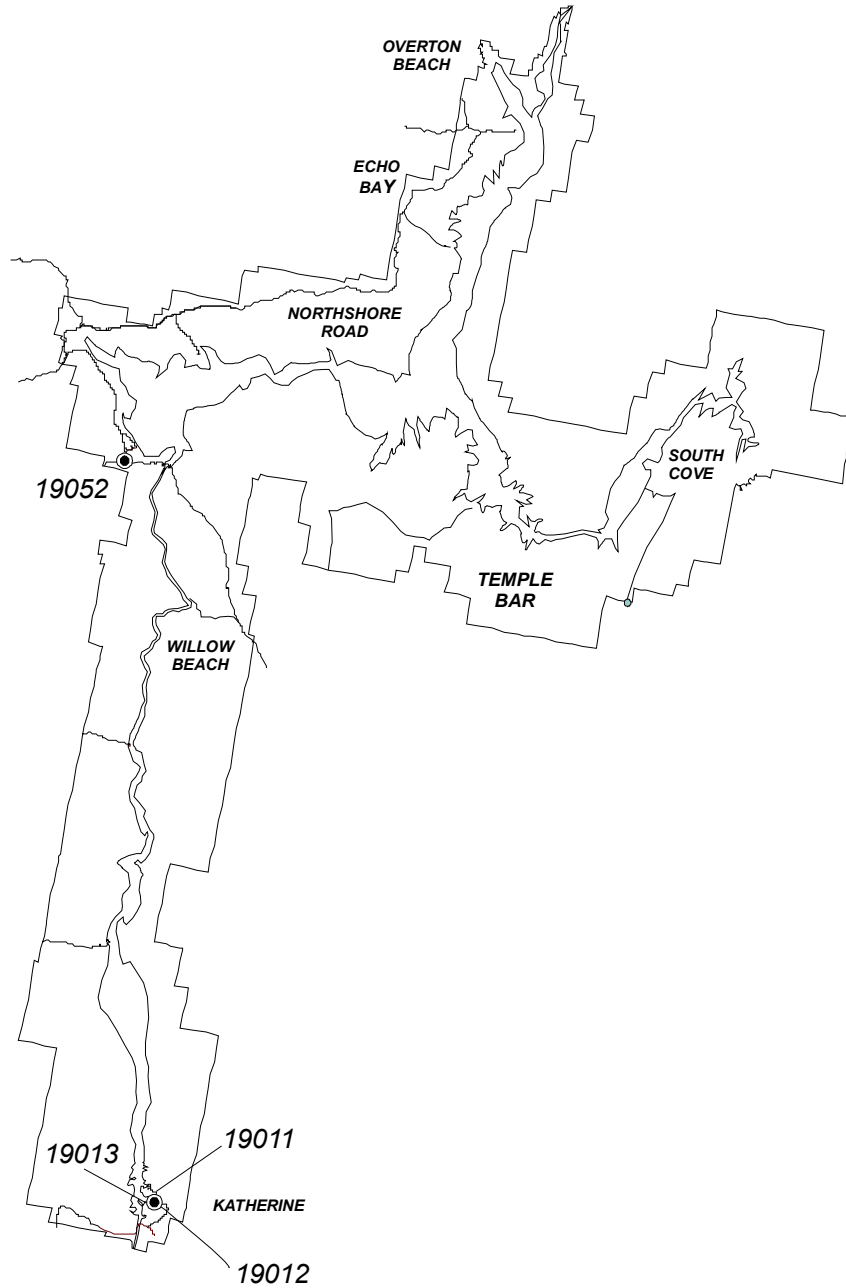


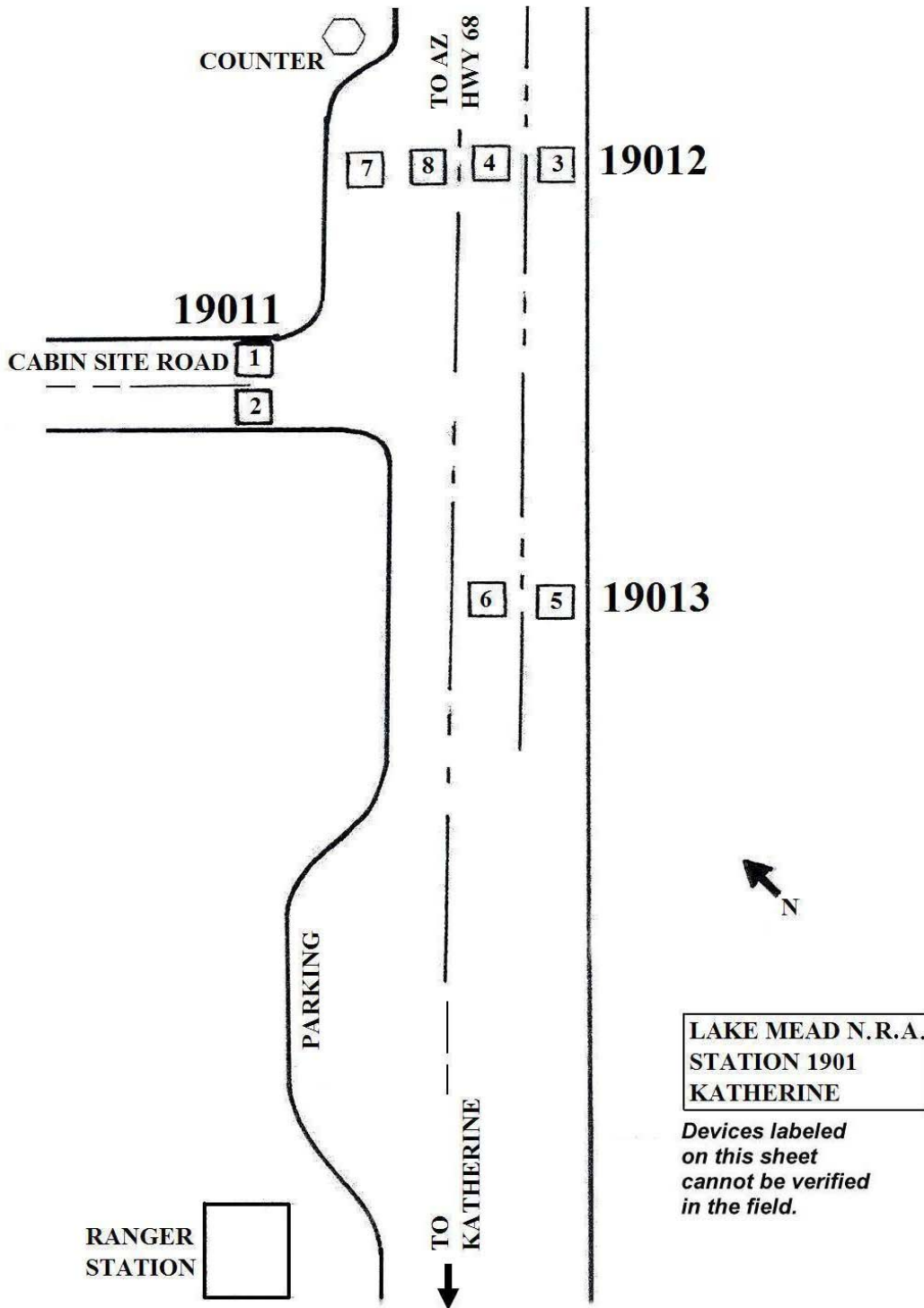
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

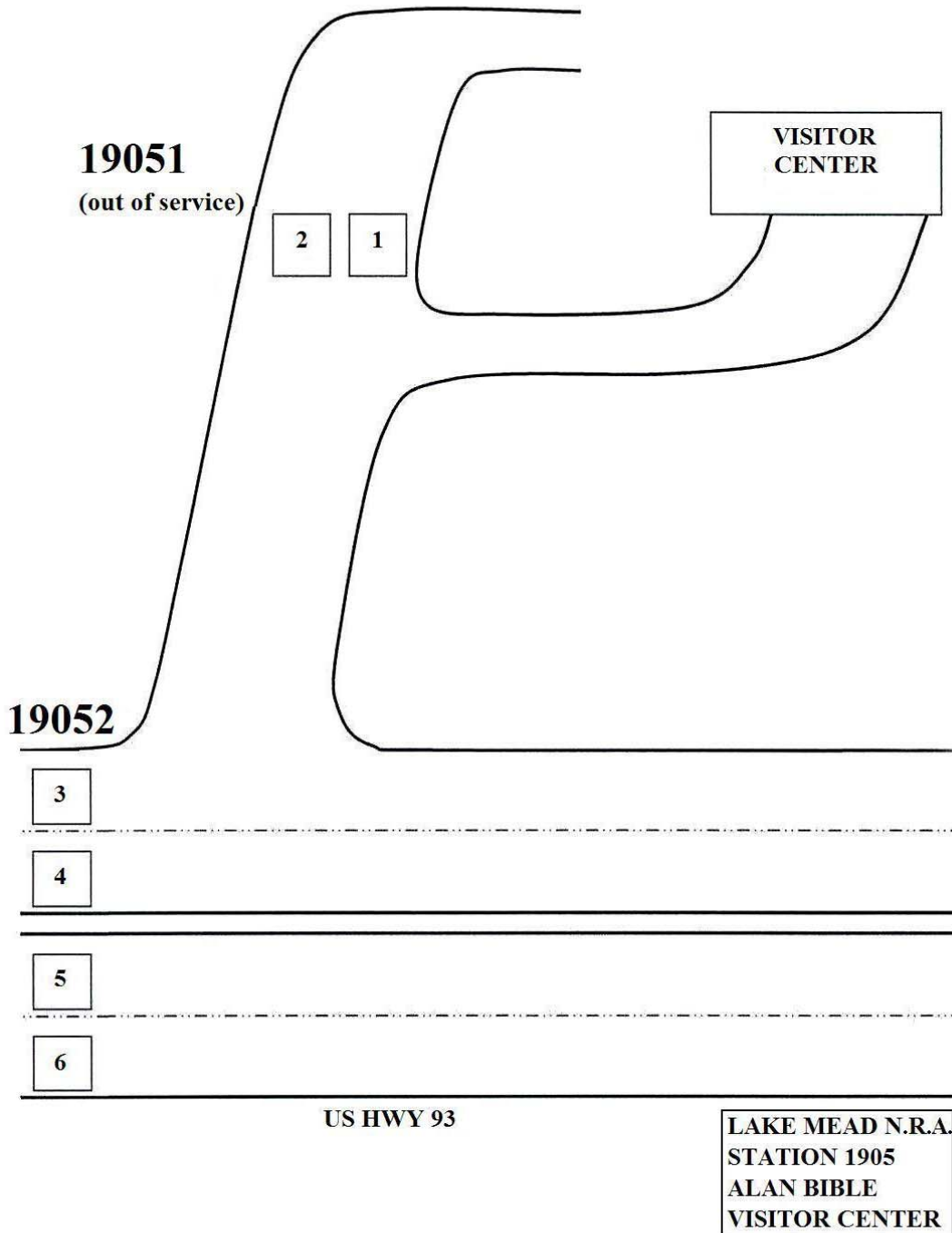


Lake Mead National Recreation Area

Nevada & Arizona
U.S. Department of Interior
NATIONAL PARK SERVICE





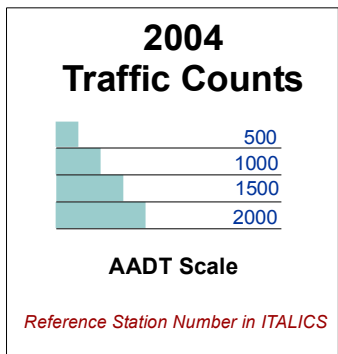
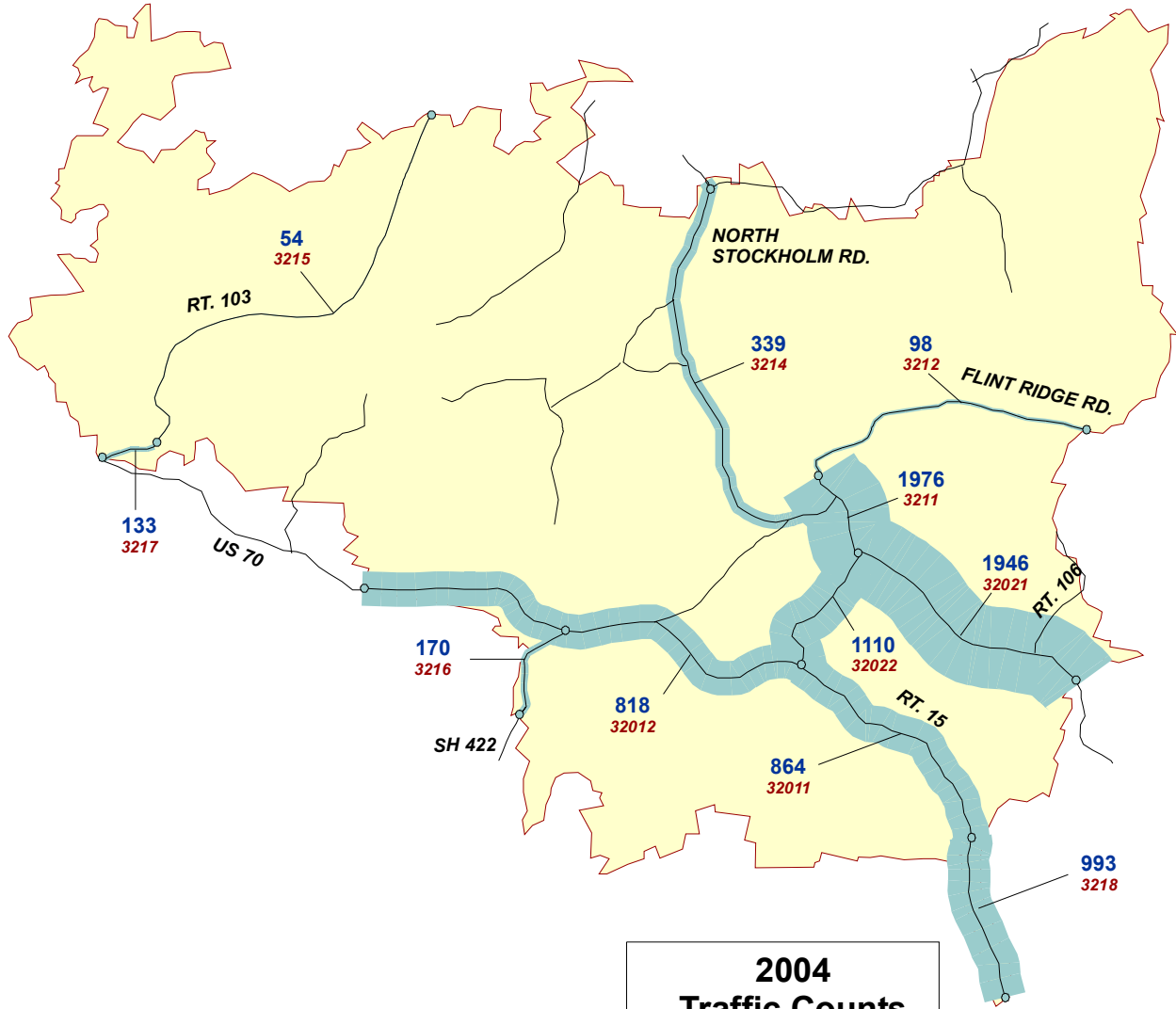
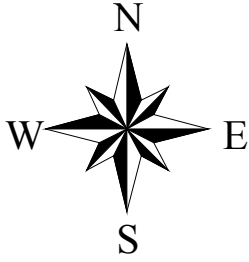


Mammoth Cave National Park Traffic Package



Mammoth Cave National Park

Kentucky
U.S. Department of Interior
NATIONAL PARK SERVICE



MAMMOTH CAVE NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10*	South Entrance Rd.- Hwy 255 at I-65 to Southeast Entrance Rd. (Hwy 70)	3218	2.24				993				812
10*	South Entrance Rd.- Southeast Entrance Rd. (Hwy 70) to West Entrance Rd.	32011	2.94	1288	1426	1522	864	1382	1530	1633	927
10*	South Entrance Rd.- West Entrance Rd. to East Entrance Rd.	32022	1.71	1024	1022	1046	1110	639	638	653	693
10*	South Entrance Rd.- East Entrance Rd. to Visitor Ctr. Parking Lot	3211	1.32	704	2085	1731	1976	339	1005	834	952
14*	North Entrance Rd.- Mammoth Cave Ferry to North Park Bdry.	3214	4.21	96	109	181	339	148	167	278	521
15*	West Entrance Rd.- Western Park Bdry. to South Entrance Rd.	32012	5.02	777	958	1007	818	1424	1755	1845	1499
16*	East Entrance Rd. - East Park Bdry. to South Entrance Rd.	32021	3.02	827	1198	1262	1946	912	1321	1391	2145
101	Flint Ridge Rd.- Park Entrance Road to East Park Boundary	3212	4.85	9	6	50	98	16	11	89	173
102	Cedar Sink Rd.- U.S 70 to South Park Boundary	3216	1.2	77	63	100	170	34	28	44	74
103	Houchins Ferry Rd. South - South Park Boundary to Houchins Ferry	3217	1.15	14	44	103	133	6	18	43	56
103N	Houchins Ferry Rd. North - Houchins Ferry to North Park Boundary	3215	5.59	3	15	21	54	6	31	43	110
113**	Joppa Ridge Rd. - Green River Ferry Rd. to West Entrance Rd.	3213	2.16	22	19	80		17	15	63	
Note: AADT -- Annual Average Daily Traffic								4922	6518	6916	7963
VMT-- Vehicle Miles of Travel											

* Route names and mileages were updated from the 1994 report.

** Road is closed to public

MAMMOTH CAVE NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
32011	South Entrance Rd.- Southeast Entrance Rd. (Hwy 70) to West Entrance Rd	10/9/2004	1104	0.8715	0.7823	962	864	32011
32012	West Entrance Rd.- Western Park Bdry. to South Entrance Rd.	10/9/2004	1061	0.8790	0.7712	933	818	32012
32021	East Entrance Rd. - East Park Bdry. to South Entrance Rd.	10/9/2004	1990	1.3450	0.9780	2676	1946	32021
32022	South Entrance Rd.- West Entrance Rd. to East Entrance Rd.	10/9/2004	1413	0.9812	0.7852	1386	1110	32022
3211	South Entrance Rd.- East Entrance Rd. to Visitor Ctr. Parking Lot	10/9/2004	2516	0.9812	0.7852	2469	1976	32022
3212	Flint Ridge Rd.- Park Entrance Road to East Park Boundary	10/9/2004	100	1.3450	0.9780	134	98	32021
3214	North Entrance Rd.- Mammoth Cave Ferry to North Park Bdry.	10/9/2004	347	1.3450	0.9780	467	339	32021
3215	Houchins Ferry Rd. North - Houchins Ferry to North Park Boundary	10/9/2004	55	1.3450	0.9780	74	54	32021
3216	Cedar Sink Rd.- U.S 70 to South Park Boundary	10/9/2004	174	1.3450	0.9780	234	170	32021
3217	Houchins Ferry Rd. South - South Park Boundary to Houchins Ferry	10/9/2004	136	1.3450	0.9780	183	133	32021
3218	South Entrance Rd.- Hwy 255 at I-65 to Southeast Entrance Rd. (Hwy 70)	10/9/2004	1270	0.8715	0.7823	1107	993	32011

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.

MAMMOTH CAVE NATIONAL PARK

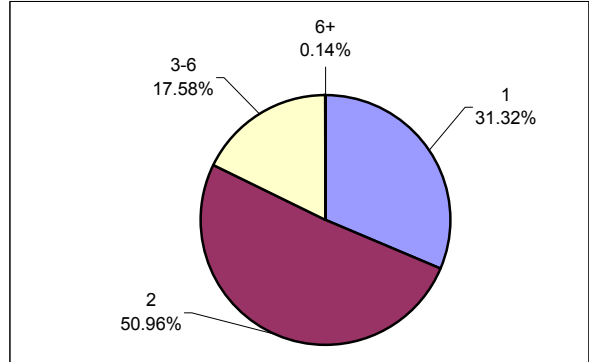
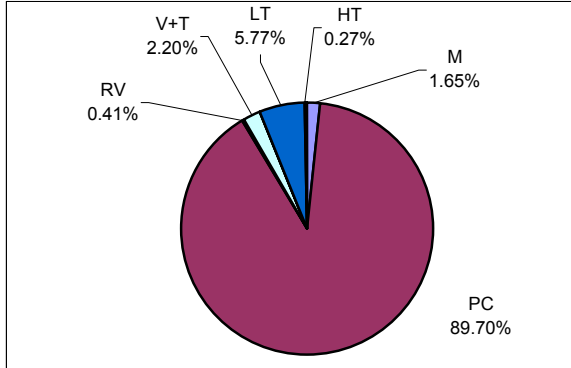
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

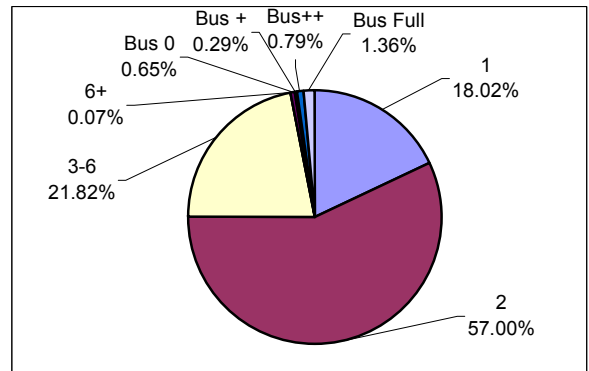
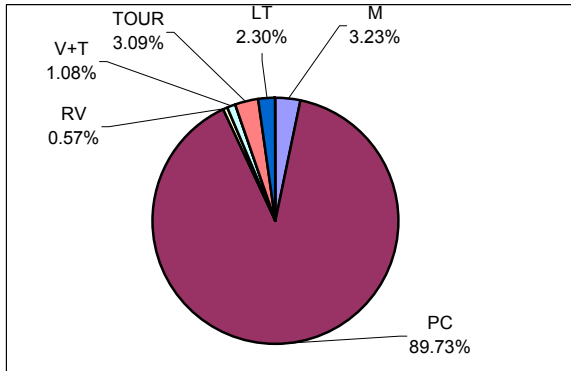
Location: STATION 32011

Location: STATION 32011



Location: STATION 32021

Location: STATION 32021



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

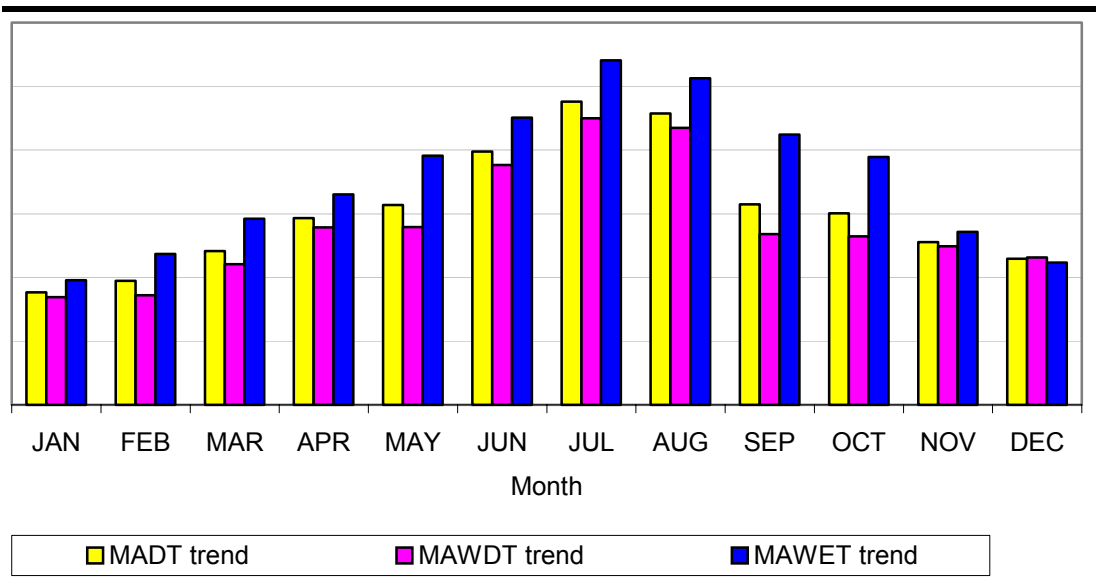
Note: Vehicle Classifications and Vehicle Occupancy values represented by 0% (No Occurrence) are not shown on the charts.

MAMMOTH CAVE NATIONAL PARK

Station: 32011 South Entrance Rd.- Southeast Entrance Rd. (Hwy 70) to West Entrance Rd.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	1.5526	1.7296
2	1992	1.2829	1.4292
3	1992	1.0407	1.1594
4	1993-1994	0.9204	1.0254
5	1992	0.7779	0.8666
6	1993-1994	0.6750	0.7520
7	1993-1994	0.5629	0.6271
8	1993-1994	0.5934	0.6611
9	1992	0.7174	0.7992
10	1992	0.7823	0.8715
11	1993-1994	1.1196	1.2472
12	1993-1994	1.3609	1.5161

See Section 2.1.5



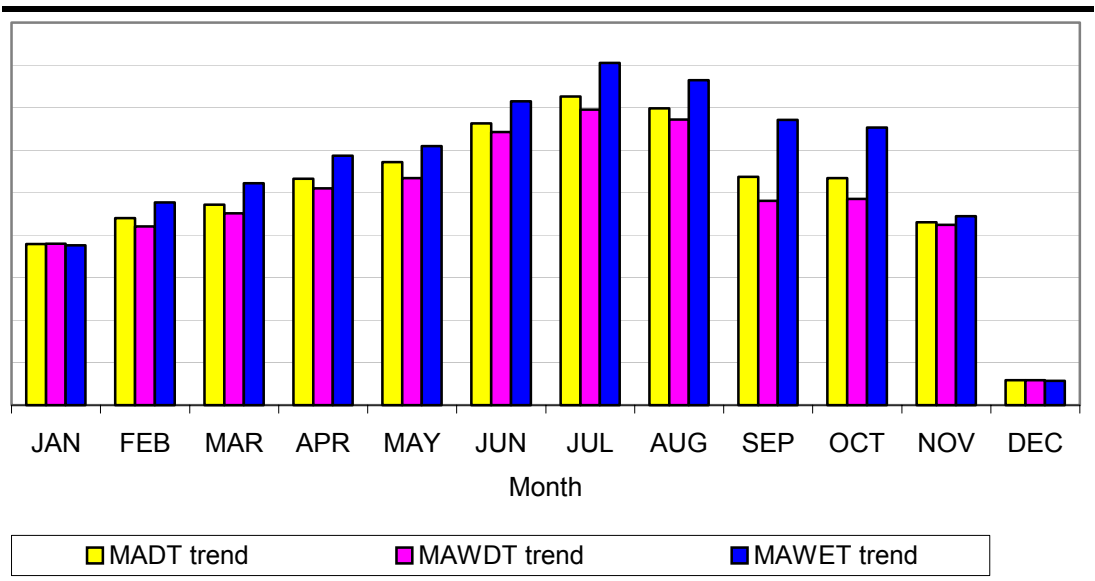
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

MAMMOTH CAVE NATIONAL PARK

Station: 32012 West Entrance Rd.- Western Park Bdry. to South Entrance Rd.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	1.3394	1.5266
2	1992	1.0558	1.2034
3	1992	0.9639	1.0986
4	1993-1994	0.8580	0.9779
5	1992	0.8263	0.9418
6	1993-1994	0.7044	0.8028
7	1993-1994	0.6256	0.7130
8	1993-1994	0.6588	0.7508
9	1992	0.7506	0.8554
10	1992	0.7712	0.8790
11	1992	1.1330	1.2913
12	1993-1994	8.7587	9.9826

See Section 2.1.5



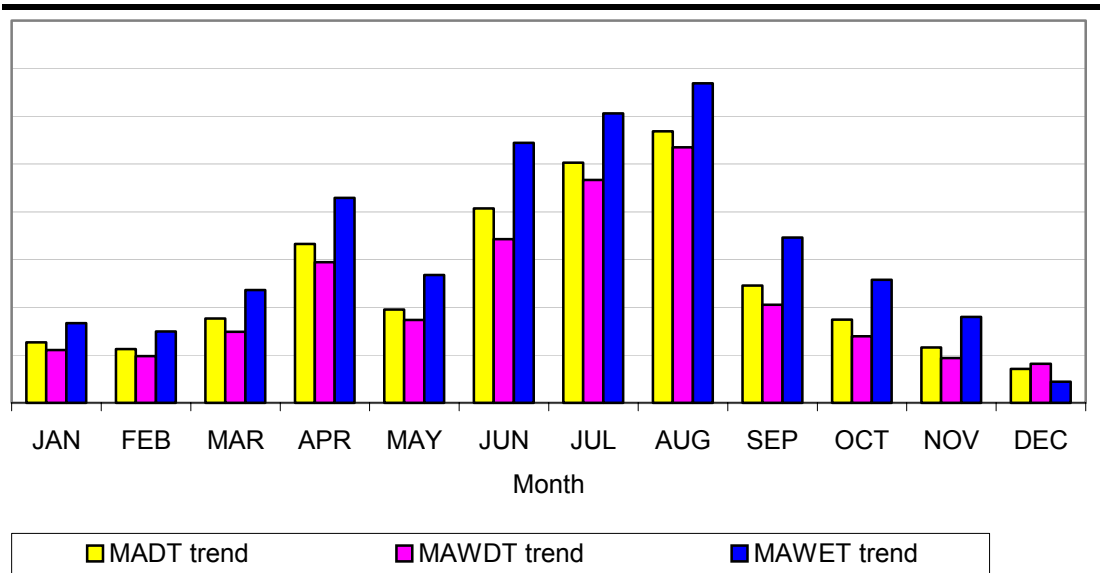
Note: AADTF is used to adjust coverage traffic volumes to AADTF volume.
 SADTF is used to adjust coverage traffic volumes to SADTF volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

MAMMOTH CAVE NATIONAL PARK

Station: 32021 East Entrance Rd. - East Park Bdry. to South Entrance Rd.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	1.5146	2.0828
2	1993-1994	1.6912	2.3257
3	1991	1.0692	1.4703
4	1993-1994	0.5882	0.8089
5	1991	0.9429	1.2967
6	1991	0.4637	0.6376
7	1991	0.4167	0.5730
8	1991	0.3774	0.5190
9	1991	0.7293	1.0029
10	1991	0.9780	1.3450
11	1990	1.4019	1.9278
12	1993-1994	5.7089	7.8507

See Section 2.1.5



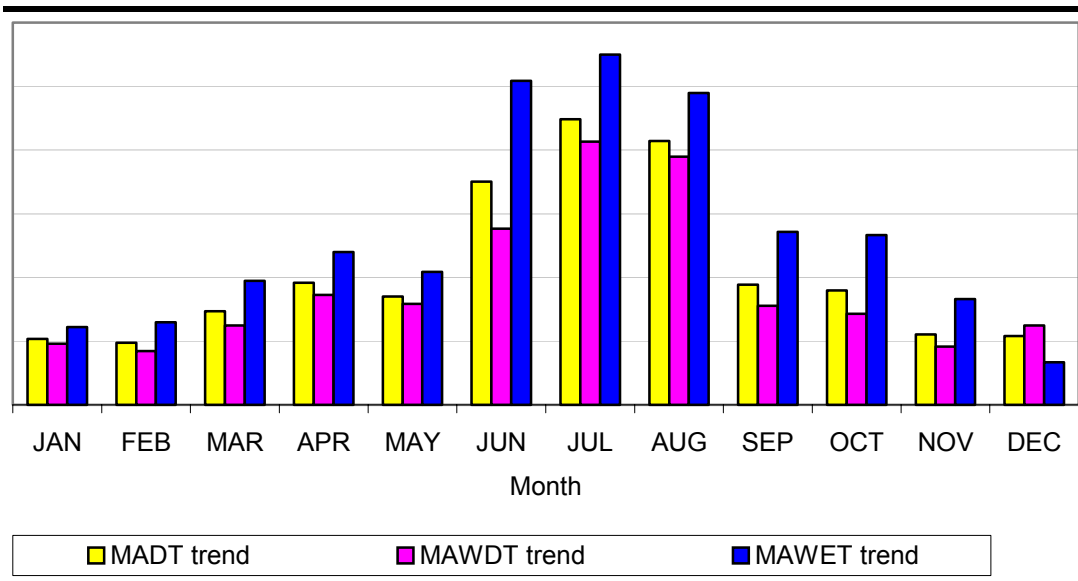
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

MAMMOTH CAVE NATIONAL PARK

Station: 32022 South Entrance Rd.- West Entrance Rd. to East Entrance Rd.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	1.7174	2.1461
2	1993-1994	1.6141	2.0170
3	1991	1.0749	1.3433
4	1993-1994	0.8709	1.0883
5	1991	1.0009	1.2507
6	1991	0.4115	0.5142
7	1991	0.3803	0.4753
8	1991	0.4273	0.5339
9	1991	0.7696	0.9617
10	1991	0.7852	0.9812
11	1990	1.2571	1.5709
12	1993-1994	3.1409	3.9249

See Section 2.1.5

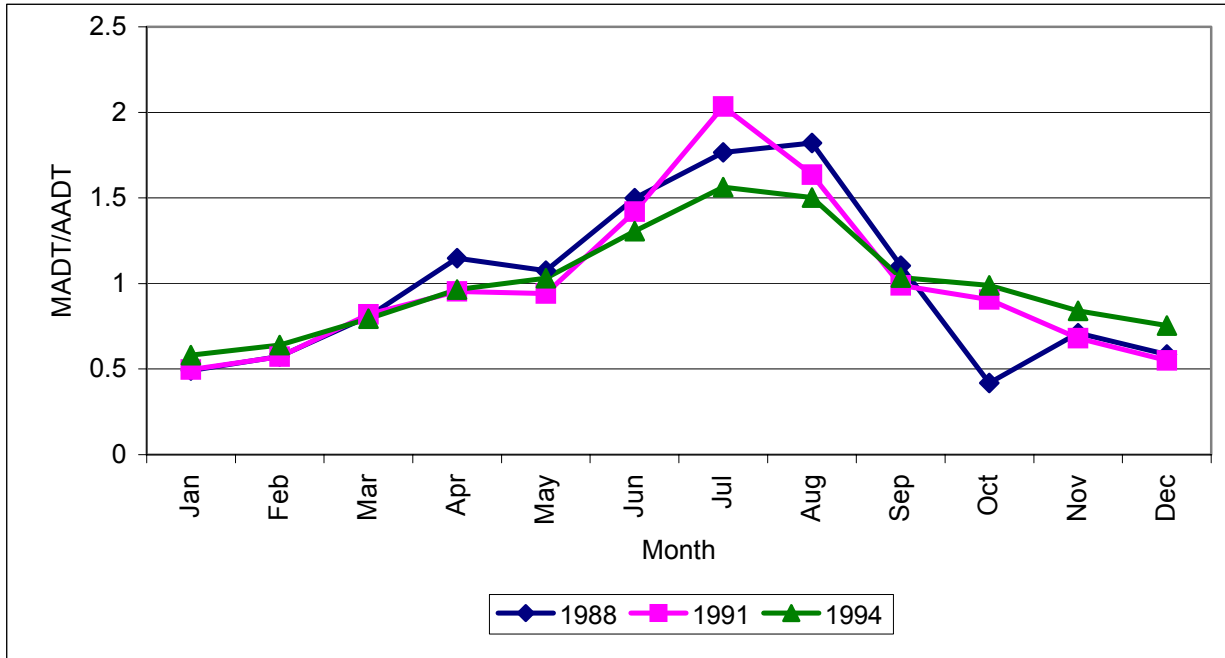


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

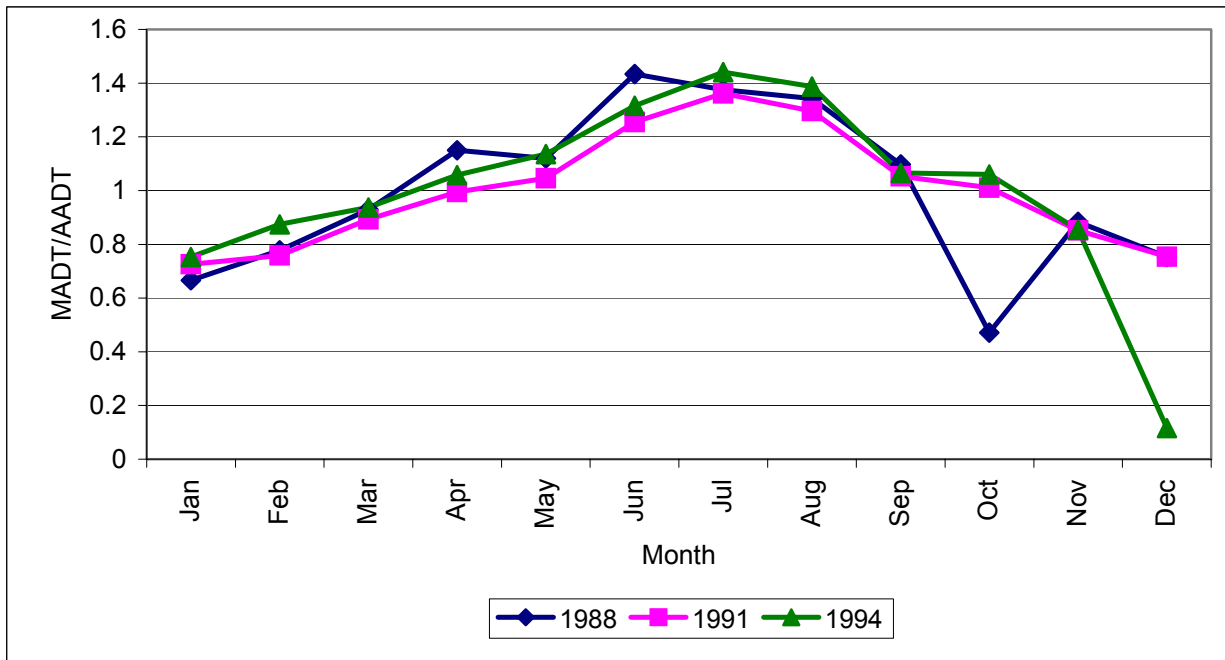
MAMMOTH CAVE NATIONAL PARK

HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

ATR Station 32011



ATR Station 32012

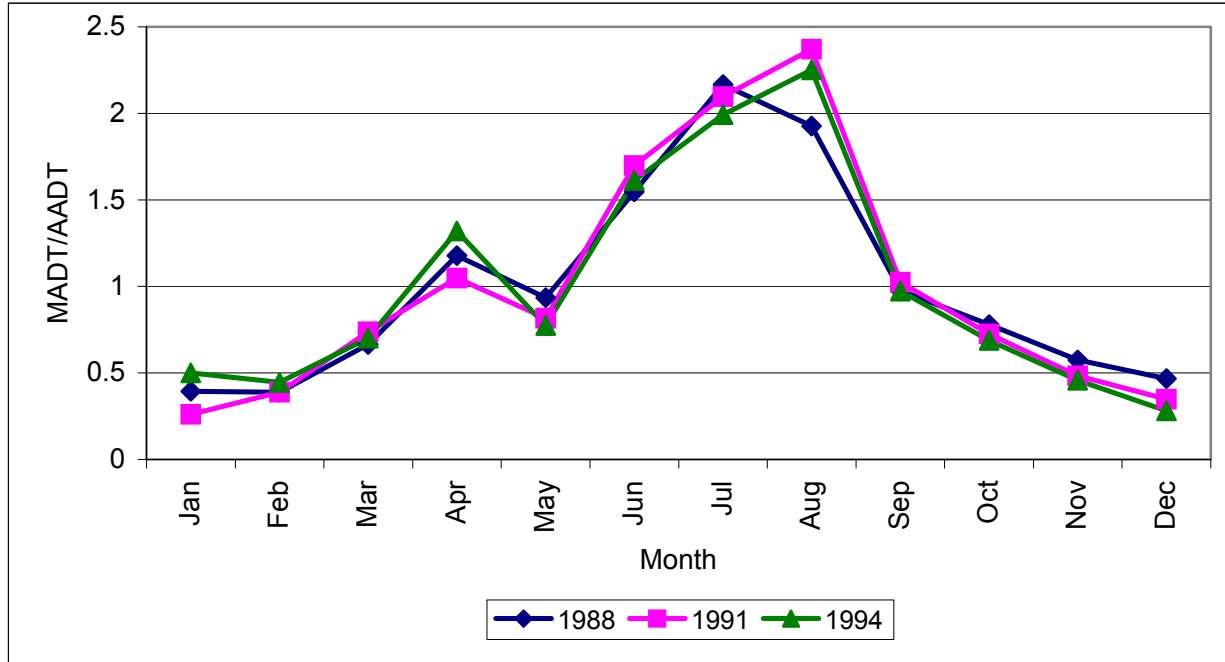


Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

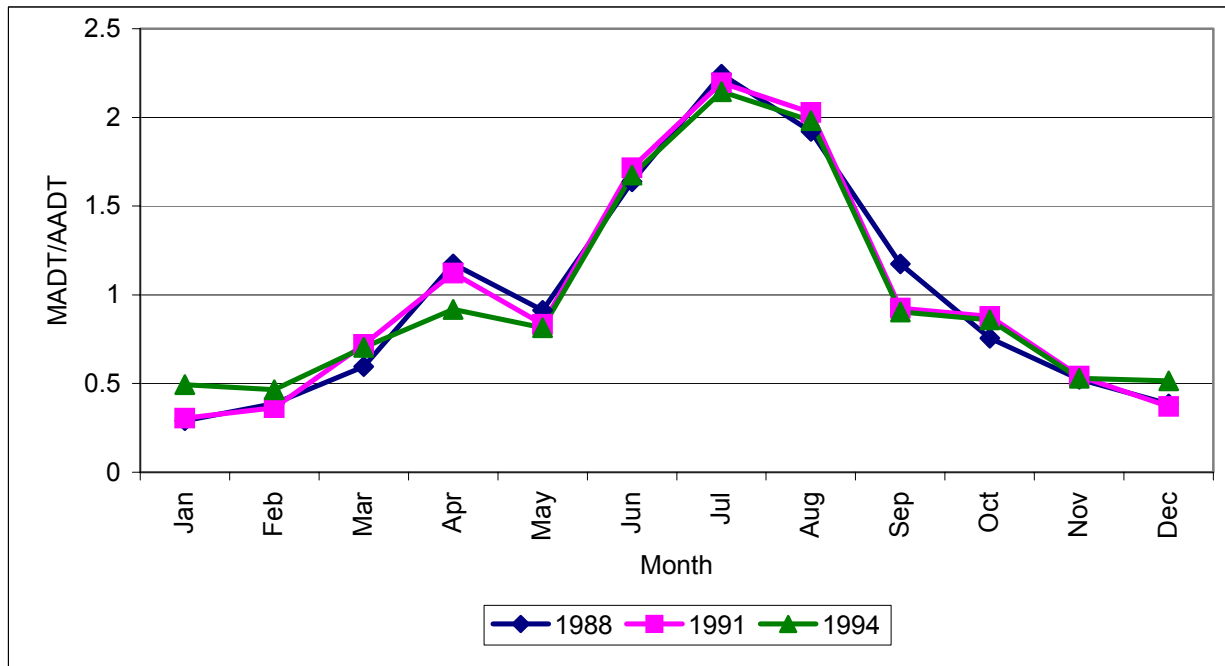
MAMMOTH CAVE NATIONAL PARK

HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

ATR Station 32021



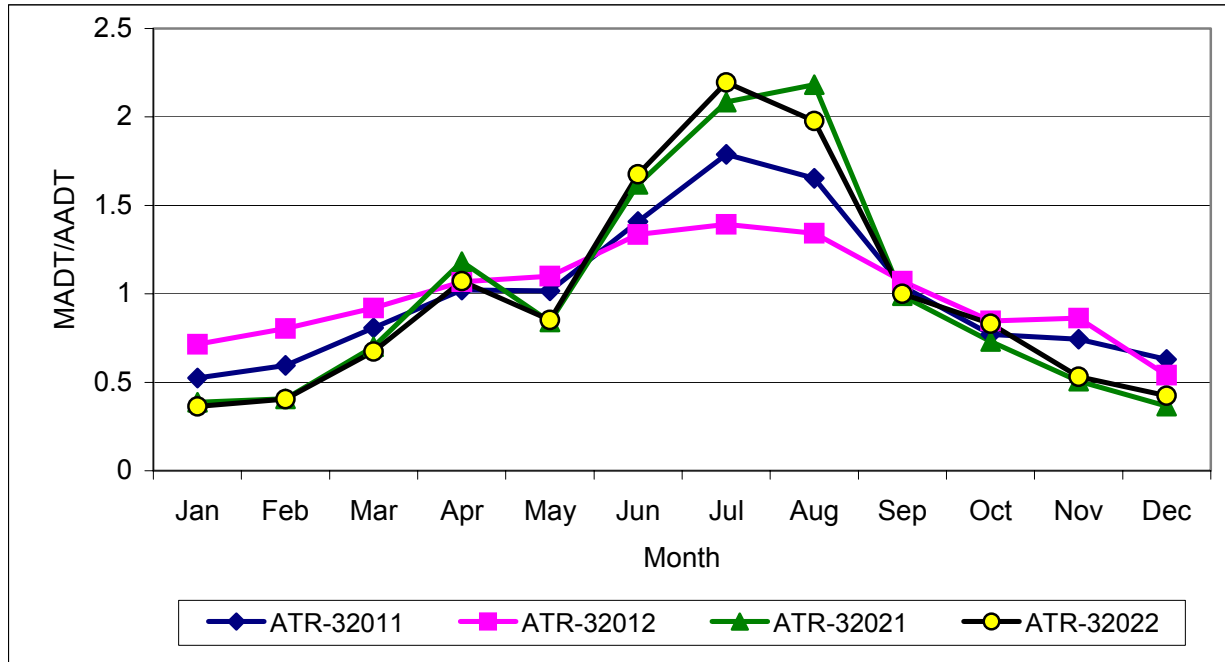
ATR Station 32022

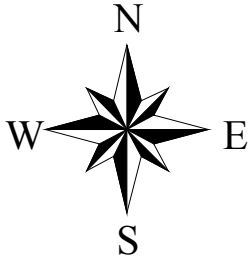


Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

MAMMOTH CAVE NATIONAL PARK HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

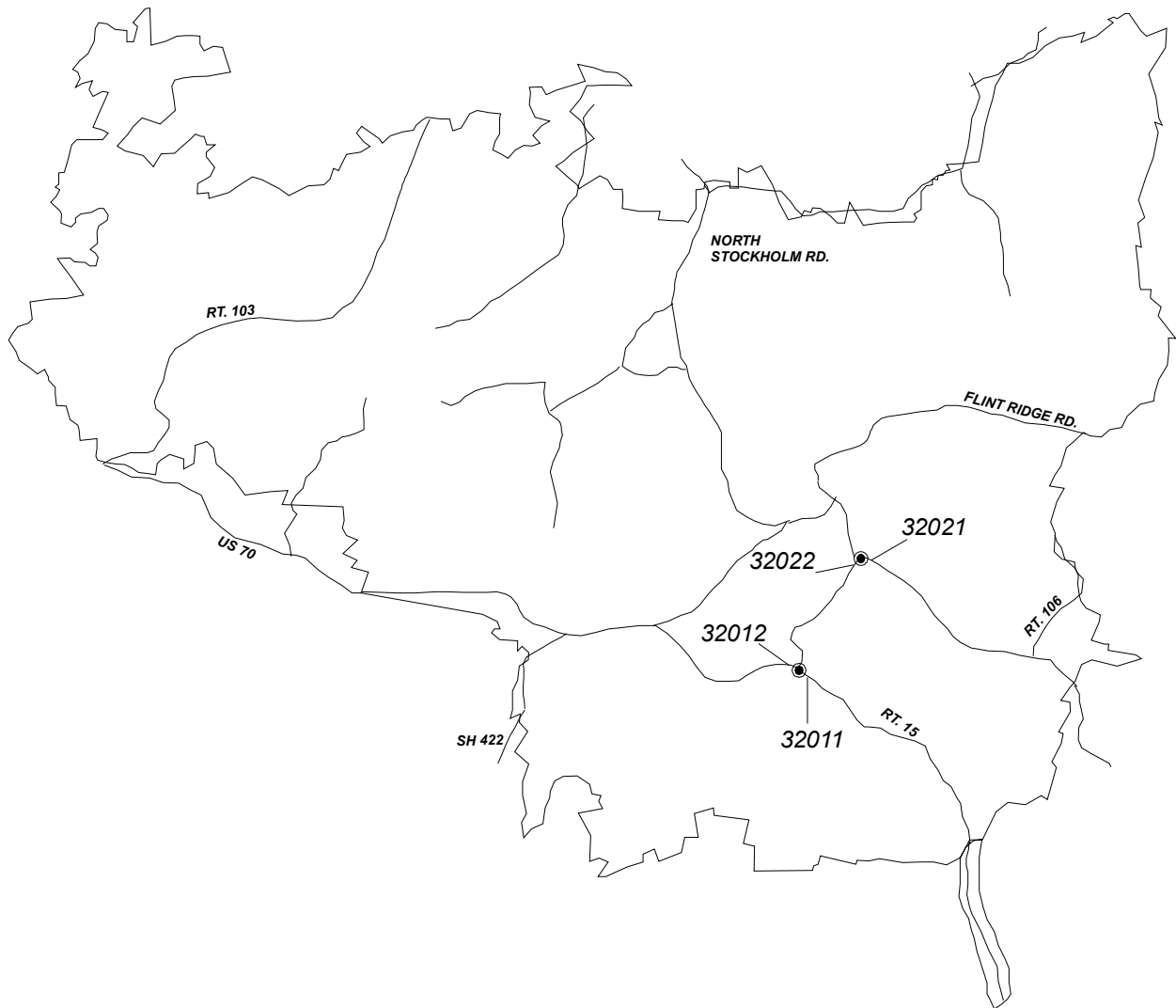
Average MADT/AADT Trends

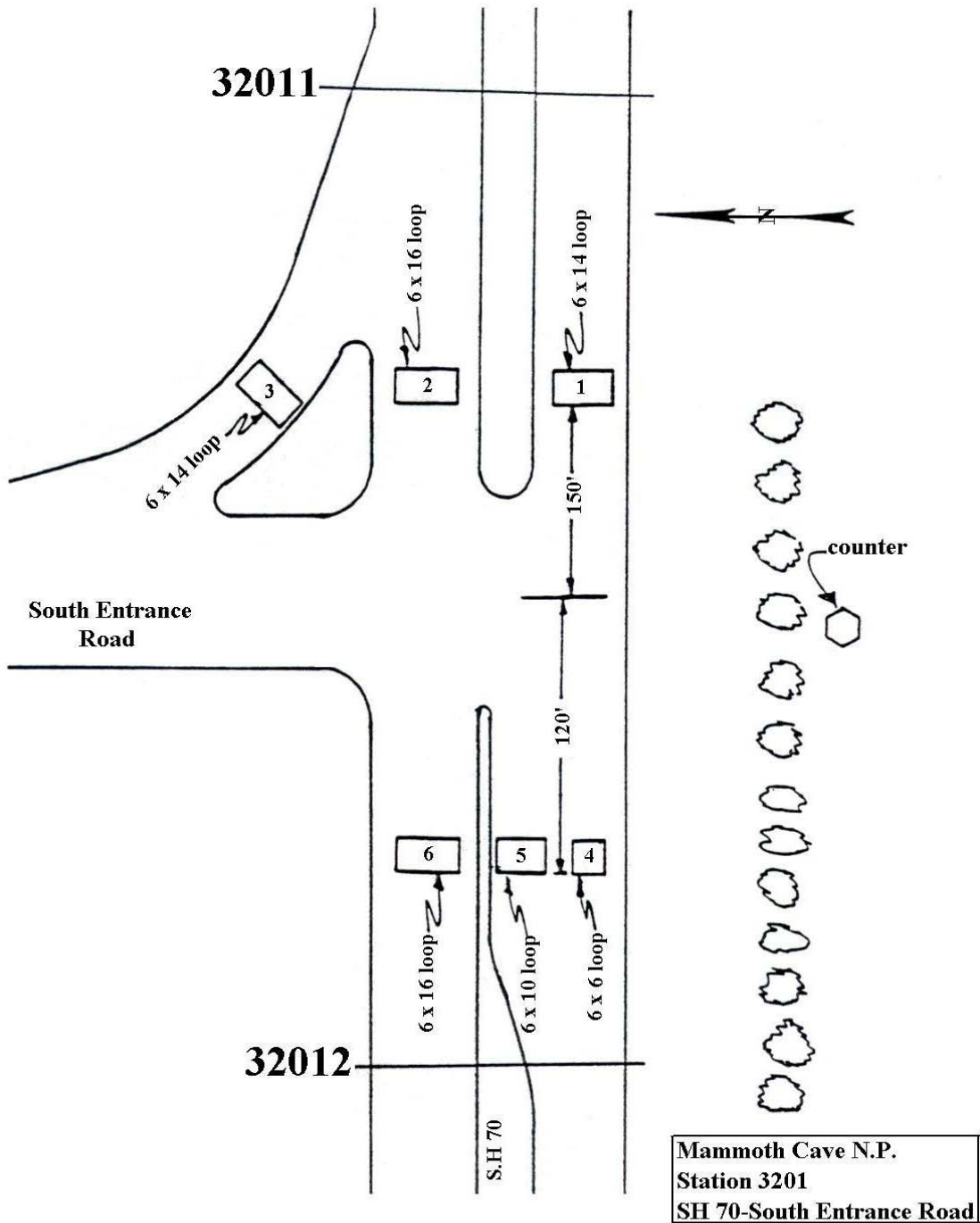


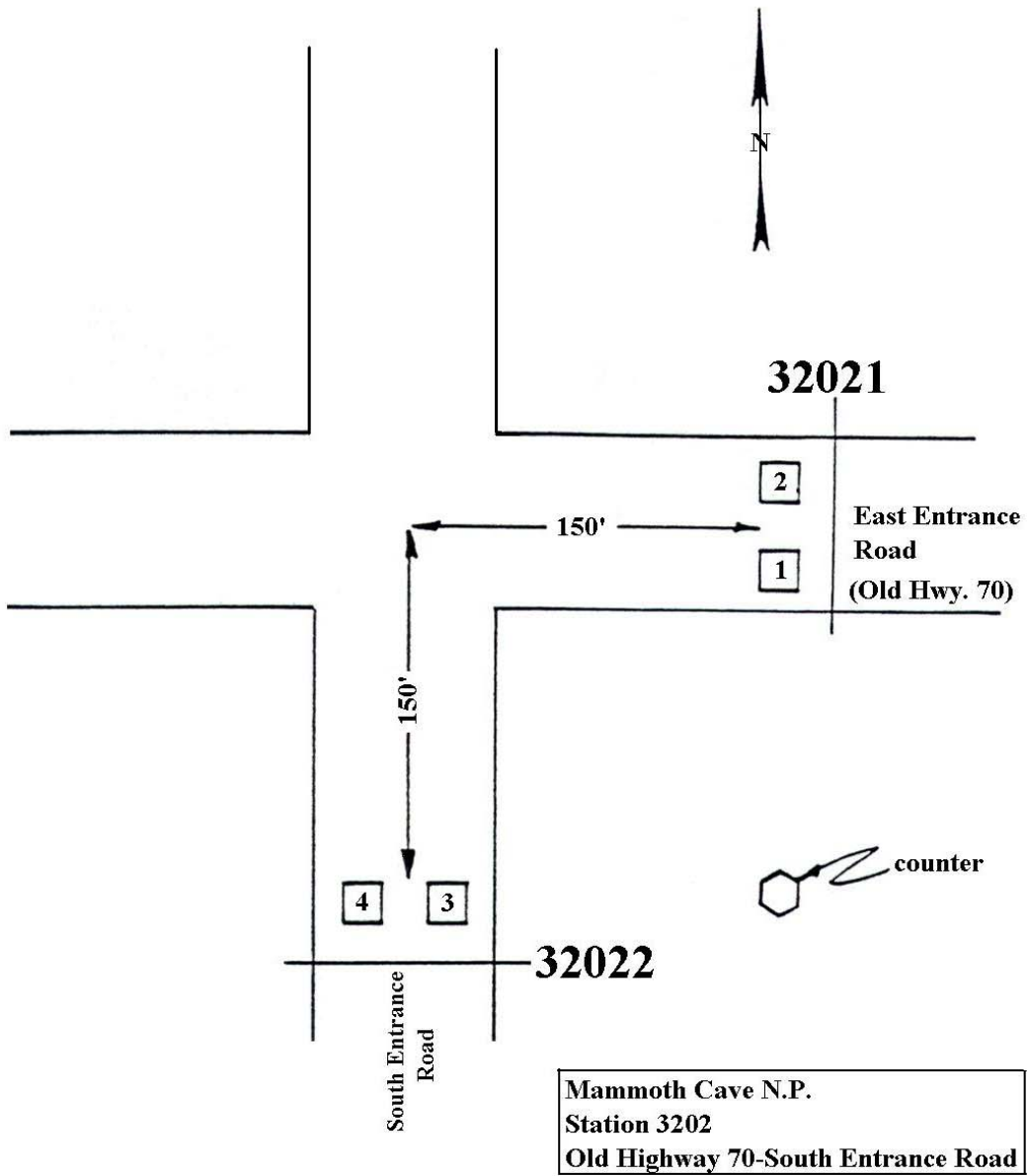


Mammoth Cave National Park

Kentucky
U.S. Department of Interior
NATIONAL PARK SERVICE

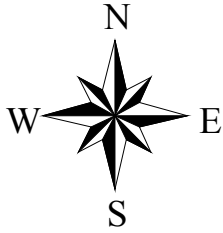






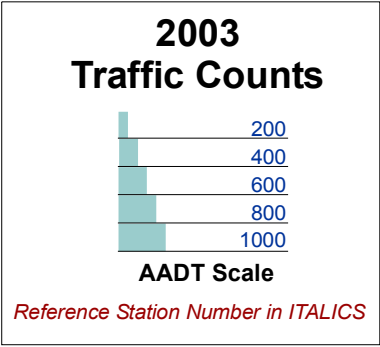
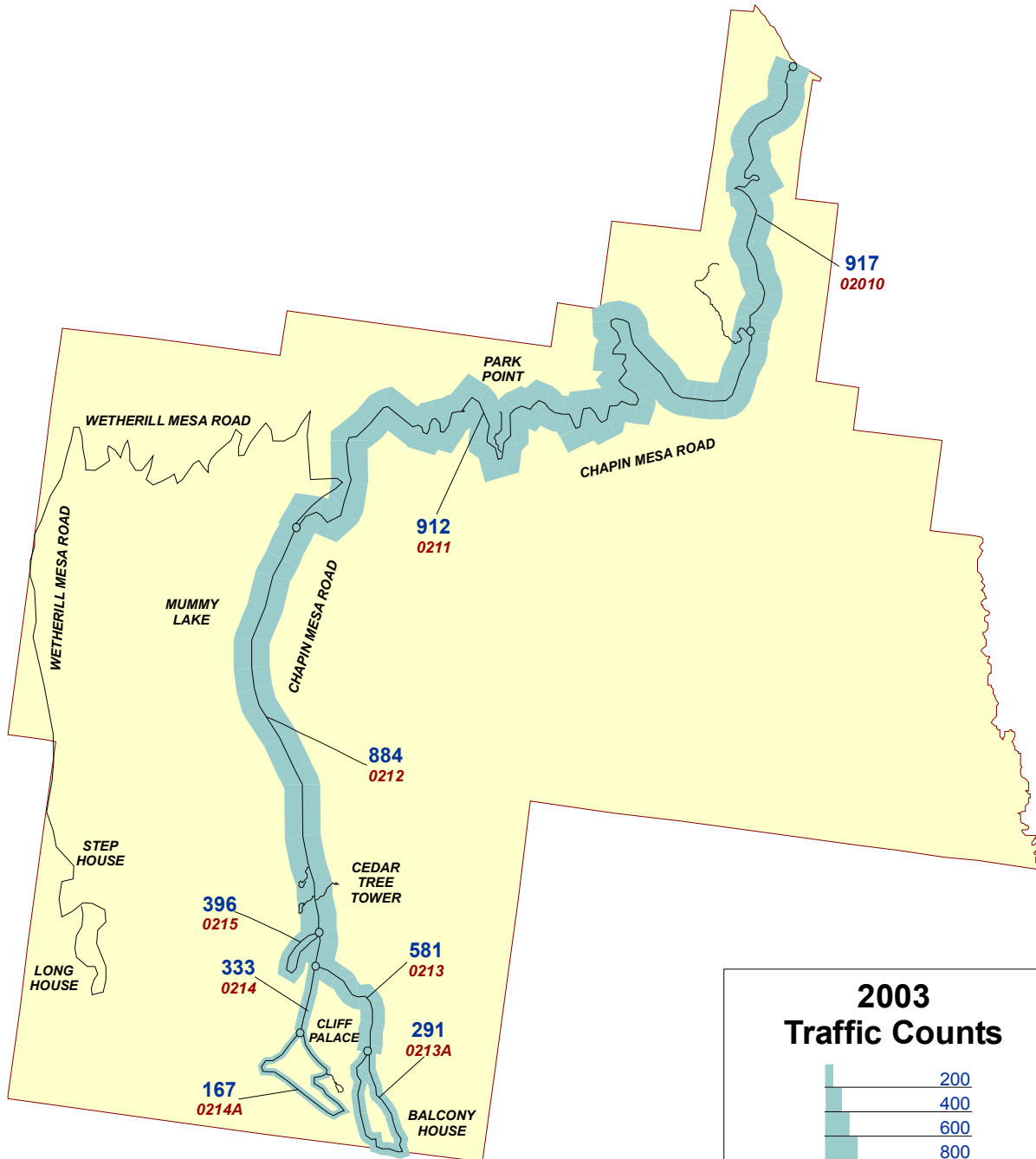
Mesa Verde National Park Traffic Package





Mesa Verde National Park

Colorado
U.S. Department of Interior
NATIONAL PARK SERVICE



MESA VERDE NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	Chapin Mesa Rd. - North Park Bdry. To Morefield Village	2010	3.9	1191	1334	1354	917	1695	1899	1927	1305
10	Chapin Mesa Rd. - Morefield Village to Wetherill Mesa Rd.	211	10.97	1428	2171	1602	912	5718	8693	6414	3652
10	Chapin Mesa Rd. - Wetherill Mesa Rd. to Sun Point Rd.	212	5.26	1352	2107	1542	884	2596	4045	2960	1697
100	Sun Point Rd. - Chapin Mesa Rd. to Begin One-Way Loop	214	1.1	460	782	703	333	185	314	282	134
100	Sun Point Rd. - Begin One-Way Loop to End One-Way Loop	214A	3.18	230	391	351	167	267	454	407	194
101	Balcony House Rd. - Sun Point Rd. to Begin One-Way Loop	213	1.36	936	1455	1021	581	465	722	507	288
101	Balcony House Rd. - Begin One-Way Loop to End One-Way Loop	213A	2.85	468	728	510	291	487	757	531	303
209	Headquarters Area Rd. - Chapin Mesa Rd. to Chapin Mesa Rd.	215	1.18	599	835	744	396	258	360	320	171
VMT SUMMARY								11670	17244	13350	7743

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

MESA VERDE NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
2010	Chapin Mesa Rd. - North Park Bdry. To Morefield Village					1494	917	Self
211	Chapin Mesa Rd. - Morefield Village to Wetherill Mesa Rd.	6/9/2003	2042	0.72772	0.44666	1486	912	2010
212	Chapin Mesa Rd. - Wetherill Mesa Rd. to Sun Point Rd.	6/9/2003	1978	0.72772	0.44666	1439	884	2010
213	Balcony House Rd. - Sun Point Rd. to Begin One-Way Loop	6/9/2003	1301	0.72772	0.44666	947	581	2010
213A	Balcony House Rd. - Begin One-Way Loop to End One-Way Loop	6/9/2003	651	0.72772	0.44666	474	291	*
214	Sun Point Rd. - Chapin Mesa Rd. to Begin One-Way Loop	6/9/2003	746	0.72772	0.44666	543	333	2010
214A	Sun Point Rd. - Begin One-Way Loop to End One-Way Loop	6/9/2003	373	0.72772	0.44666	271	167	**
215	Headquarters Area Rd. - Chapin Mesa Rd. to Chapin Mesa Rd.	6/9/2003	886	0.72772	0.44666	645	396	2010

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.
 * 24 HR. VOL. is 1/2 of the value for Sta. ID 213 (one-way loop)
 ** 24 HR. VOL. is 1/2 of the value for Sta. ID 214 (one-way loop)

MESA VERDE NATIONAL PARK

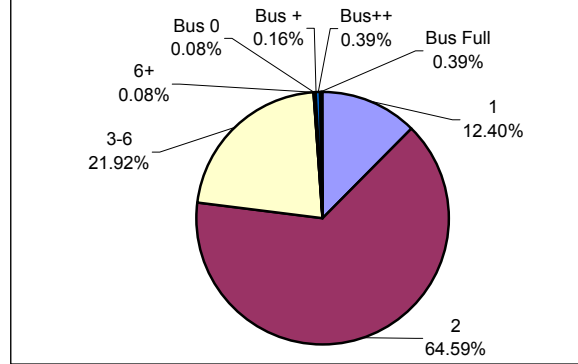
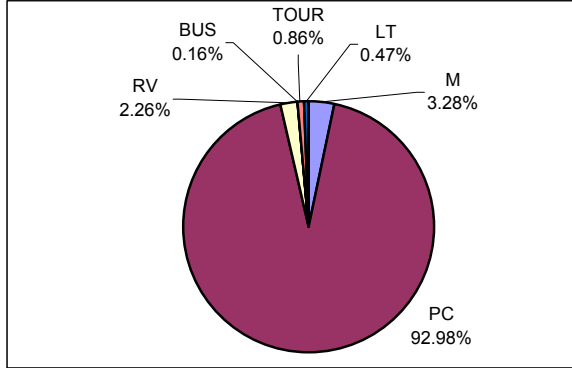
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 211

Location: STATION 211



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

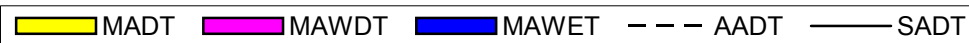
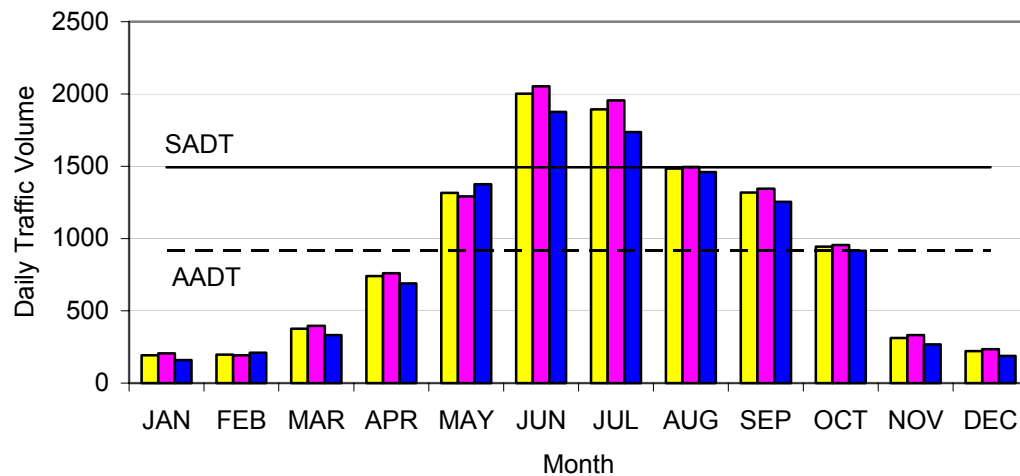
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

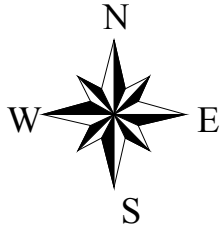
MESA VERDE NATIONAL PARK

Station: 2010 Chapin Mesa Rd. - North Park Bdry. To Morefield Village

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	193	206	160	4.4515	7.2524
2	2003	198	192	211	4.7760	7.7813
3	2003	377	396	331	2.3157	3.7727
4	2003	741	761	690	1.2050	1.9632
5	2003	1317	1293	1377	0.7092	1.1555
6	2003	2003	2053	1876	0.4467	0.7277
7	2002	1893	1956	1736	0.4688	0.7638
8	2002	1485	1495	1460	0.6134	0.9993
9	2002	1319	1345	1255	0.6818	1.1108
10	2002	944	955	915	0.9602	1.5644
11	2002	313	331	268	2.7704	4.5136
12	2002	221	235	187	3.9021	6.3574
Annual Average Daily Traffic (AADT)				917		
Annual Average Weekday Traffic (AAWDT)				935		
Annual Average Weekend Traffic (AAWET)				872		
Seasonal Average Daily Traffic (SADT)				1494		

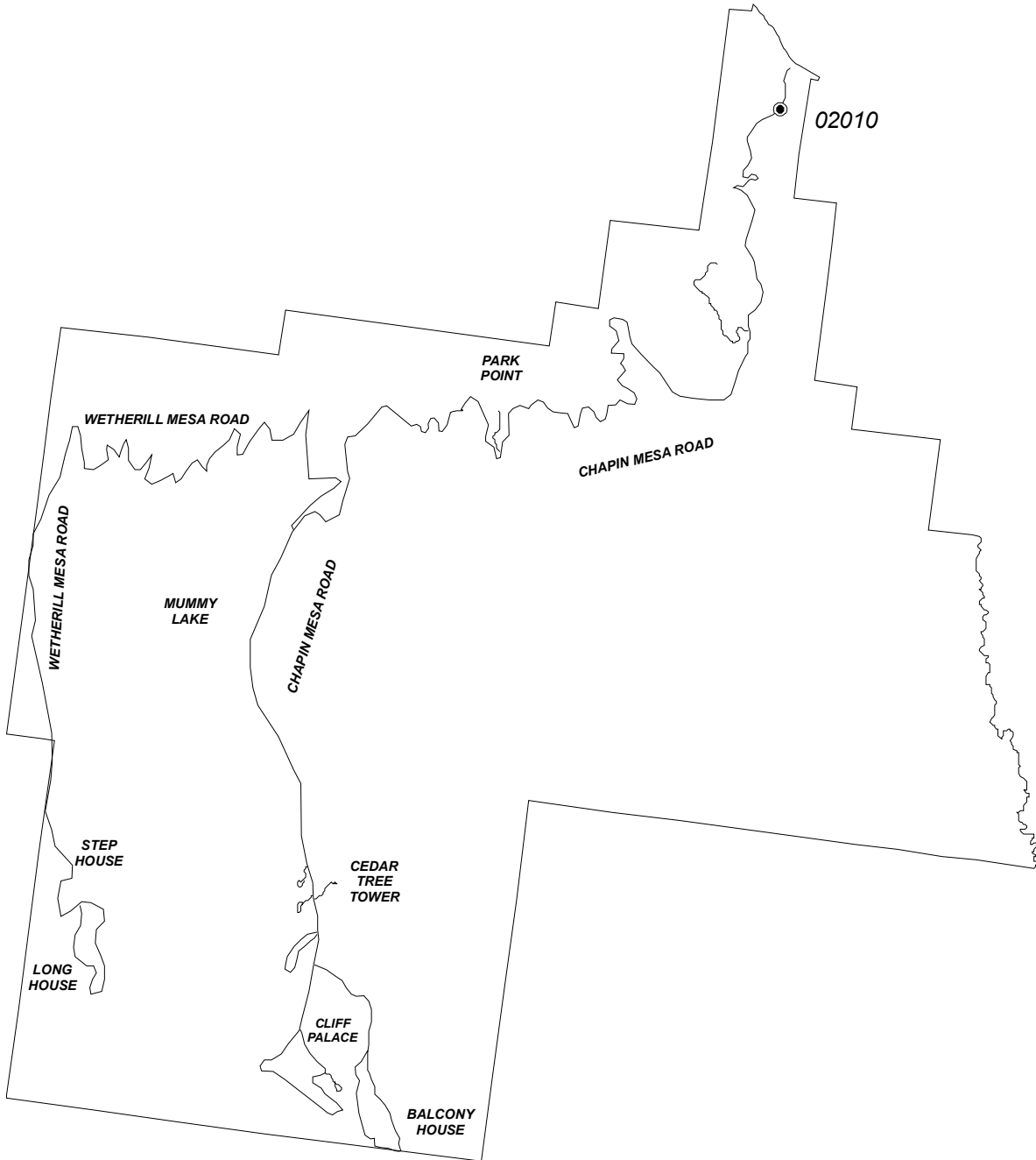


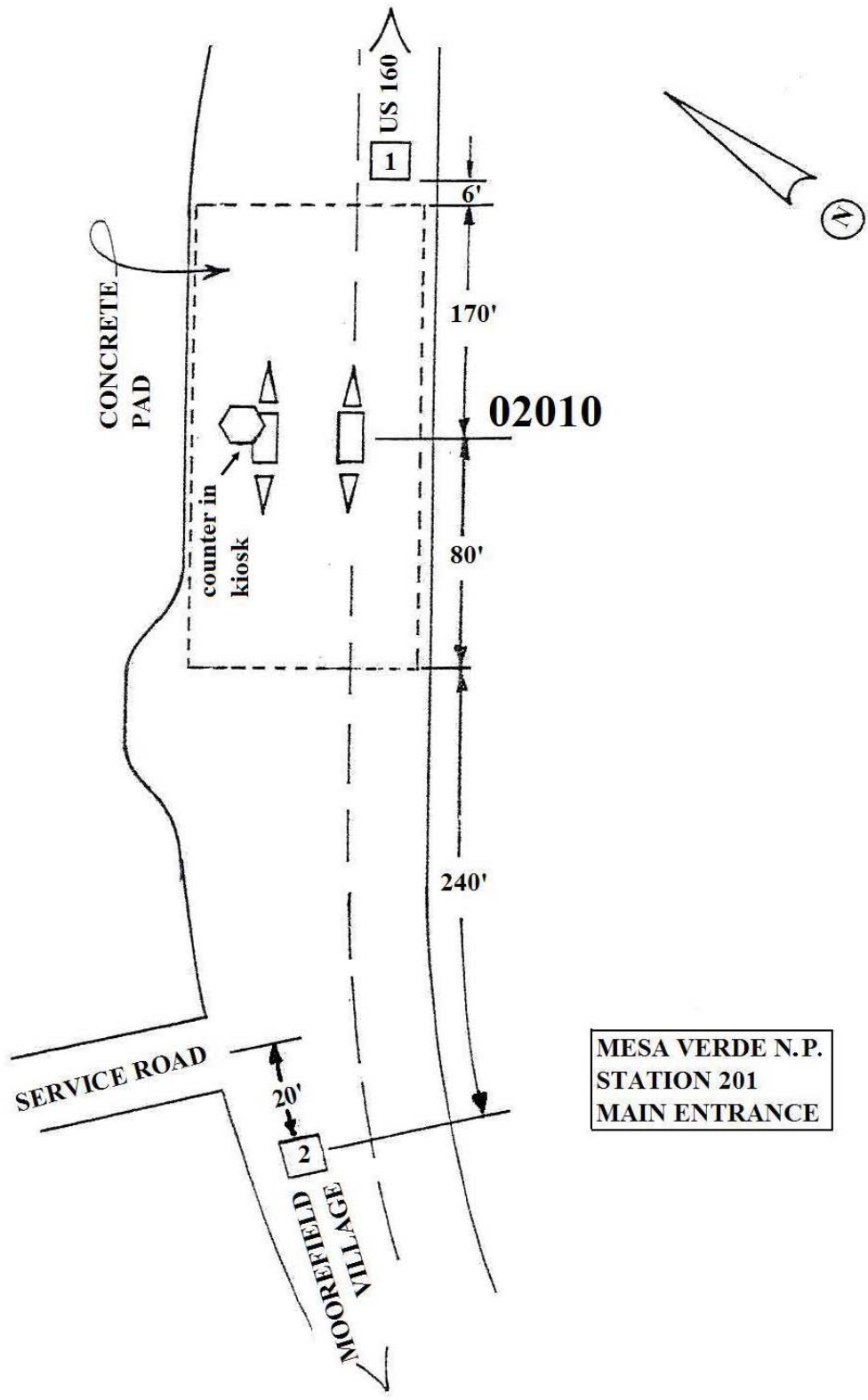
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.



Mesa Verde National Park

Colorado
U.S. Department of Interior
NATIONAL PARK SERVICE



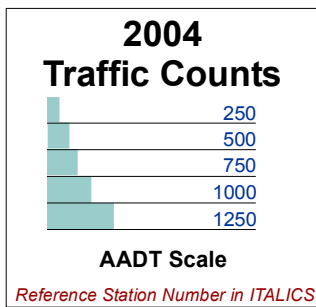
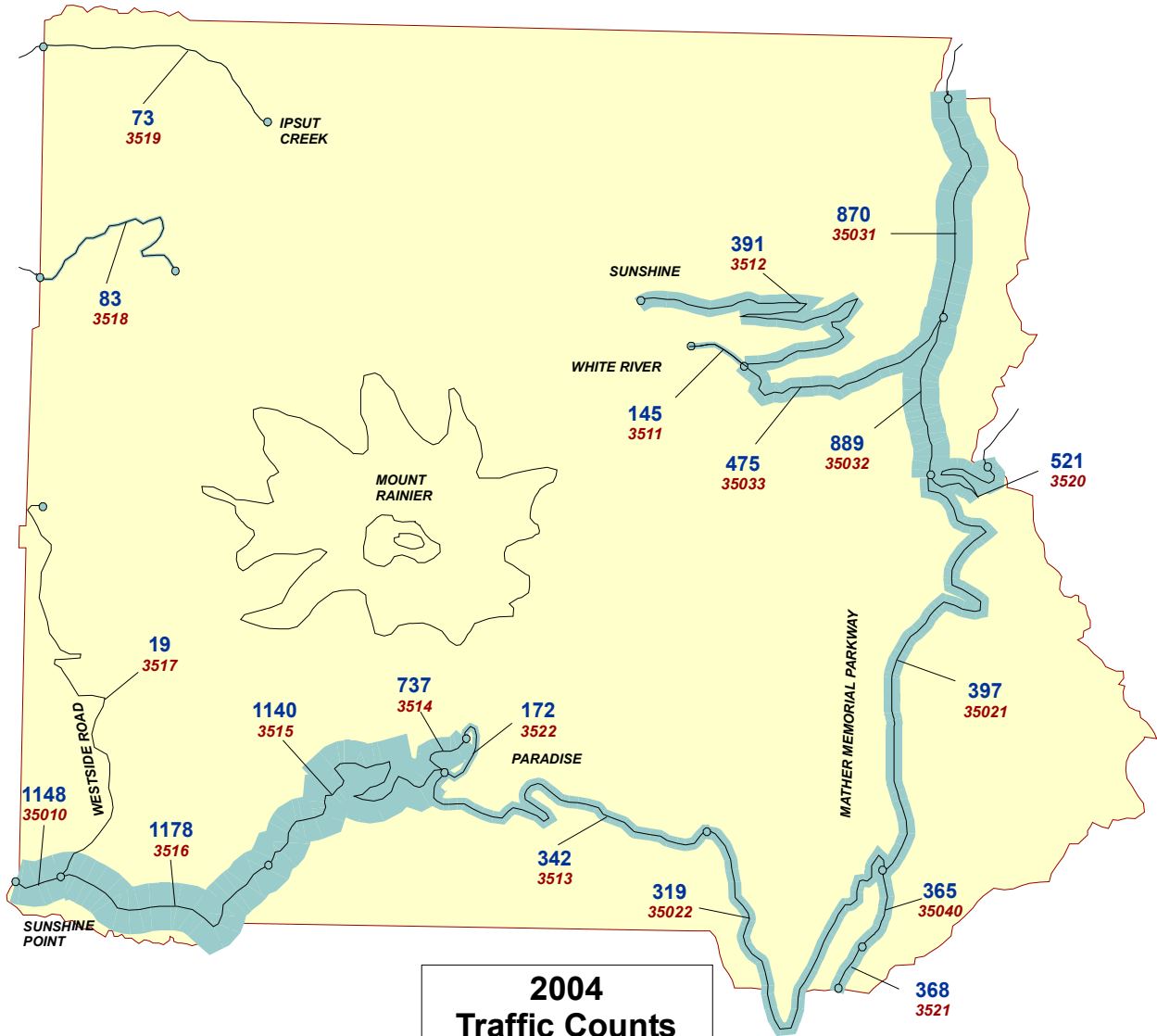
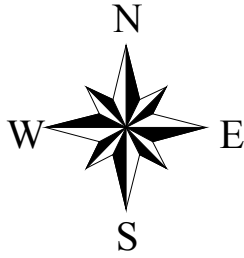


Mount Rainier National Park Traffic Package



Mount Rainier National Park Washington

U.S. Department of Interior
NATIONAL PARK SERVICE



MOUNT RAINIER NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	U.S. Hwy 410 - North Boundary to Sunrise Rd.	35031	4.45	1722	1338	1144	870	2797	2173	1858	1413
10	U.S. Hwy 410 - Sunrise Rd. to Wash.Hwy 123	35032	3.55	1477	1236	1145	889	1914	1602	1484	1152
10	Wash. Hwy.123 - U.S Hwy. 410 to Stevens Canyon Rd.	35021	11.56	514	510	444	397	2169	2152	1873	1675
10	Wash. Hwy.123 - Stevens Canyon Rd. to Ohanapecosh	35040	1.77	470	497	472	365	304	321	305	236
10	Wash. Hwy.123 - Ohanapecosh to South Boundary	3521	1.07	407	385	444	368	159	150	173	144
11	Sunrise Rd.- U.S Hwy 410 to White River Campground Rd.	35033	5.32	352	464	429	475	684	901	833	922
11	Sunrise Rd.- White River Campground Rd.to Sunrise	3512	10.07	405	284	356	391	1489	1044	1308	1437
12	U.S Hwy 410 - Wash. Hwy 123 to East Bdry. At Chinook Pass	3520	3.49	478	415	524	521	609	529	667	664
13	Stevens Canyon Rd.- Wash. Hwy 123 to Box Canyon Turnout	35022	10.78	395	394	397	319	1554	1550	1562	1255
13	Stevens Canyon Rd.- Box Canyon Turnout to Paradise Lodge Rd.	3513	8.18	435	392	479	342	1299	1170	1430	1021
13	Stevens Canyon Rd.- Paradise Lodge Rd. to Longmire	3515	9.02	684	776	737	1140	2252	2555	2426	3753
13	Stevens Canyon Rd.- Longmire to West Side Rd.	3516	5.42	1054	1225	1163	1178	2085	2423	2301	2330
13	Stevens Canyon Rd.- West Side Rd. to Nisqually Entrance	35010	1.15	1262	1238	1375	1148	530	520	577	482
14	Paradise Lodge Rd.- Stevens Canyon Rd. to Paradise Lodge	3522	2.29	100	493	222	172	84	412	186	144
101	West Side Rd.- Stevens Canyon Rd. to Wonderland Trail	3517	15.07	34	62	59	19	187	341	325	105
102	Carbon River Rd.- West Boundary to Ipsut Creek	3519	5.45	74	67	68	73	147	133	135	145
200	White River Campground Rd.- Sunrise Rd.to Campground	3511	2.2	202	135	128	145	162	108	103	116
207	Mowich Rd.- West Boundary to Mowich Lake	3518	5.74	73	53	78	83	153	111	163	174
500	Paradise Connector Rd.- Paradise Lodge to Stevens Canyon Rd.	3514	2.2	143	190	943	737	115	153	757	592

Note: AADT -- Annual Average Daily Traffic

VMT-- Vehicle Miles of Travel

18691 18349 18468 17760

MOUNT RAINIER NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
35010	Stevens Canyon Rd.- West Side Rd. to Nisqually Entrance					1588	1148	Self
35022	Stevens Canyon Rd.- Wash. Hwy 123 to Box Canyon Turnout					849	319	Self
35031	U.S. Hwy 410 - North Boundary to Sunrise Rd.					1898	870	Self
35021	Wash. Hwy.123 - U.S Hwy. 410 to Stevens Canyon Rd.	7/17/2004	1833	0.5776	0.21684	1059	397	35022
35032	U.S. Hwy 410 - Sunrise Rd. to Wash.Hwy 123	7/17/2004	3780	0.5131	0.23518	1940	889	35031
35033	Sunrise Rd.- U.S Hwy 410 to White River Campground Rd.	7/17/2004	2019	0.5131	0.23518	1036	475	35031
35040	Wash. Hwy.123 - Stevens Canyon Rd. to Ohanapecosh	7/17/2004	1682	0.5776	0.21684	971	365	35022
3511	White River Campground Rd.- Sunrise Rd.to Campground	7/17/2004	615	0.5131	0.23518	316	145	35031
3512	Sunrise Rd.- White River Campground Rd.to Sunrise	7/17/2004	1662	0.5131	0.23518	853	391	35031
3513	Stevens Canyon Rd.- Box Canyon Turnout to Paradise Lodge Rd.	7/17/2004	1576	0.5776	0.21684	910	342	35022
3514	Paradise Connector Rd.- Paradise Lodge to Stevens Canyon Rd.	7/17/2004	3400	0.5776	0.21684	1964	737	35022
3515	Stevens Canyon Rd.- Paradise Lodge Rd. to Longmire	7/17/2004	3196	0.4933	0.35676	1577	1140	35010
3516	Stevens Canyon Rd.- Longmire to West Side Rd.	7/17/2004	3302	0.4933	0.35676	1629	1178	35010
3517	West Side Rd.- Stevens Canyon Rd. to Wonderland Trail	7/17/2004	89	0.5776	0.21684	51	19	35022
3518	Mowich Rd.- West Boundary to Mowich Lake	7/17/2004	352	0.5131	0.23518	181	83	35031
3519	Carbon River Rd.- West Boundary to Ipsut Creek	7/17/2004	310	0.5131	0.23518	159	73	35031
3520	U.S Hwy 410 - Wash. Hwy 123 to East Bdry. At Chinook Pass	7/17/2004	2404	0.5776	0.21684	1388	521	35022
3521	Wash. Hwy.123 - Ohanapecosh to South Boundary	7/17/2004	1565	0.5131	0.23518	803	368	35031
3522	Paradise Lodge Rd.- Stevens Canyon Rd. to Paradise Lodge	7/17/2004	791	0.5776	0.21684	457	172	35022

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.

MOUNT RAINIER NATIONAL PARK

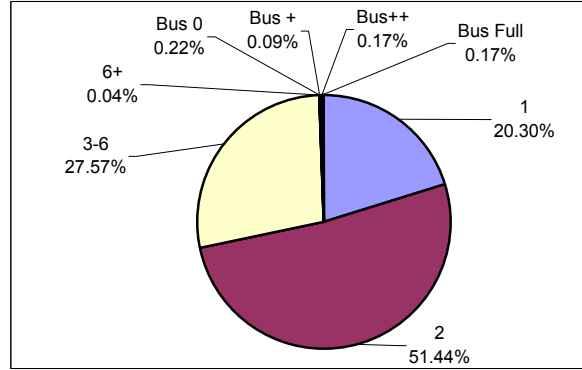
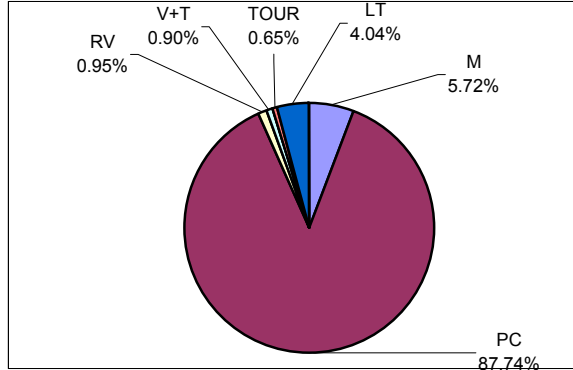
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

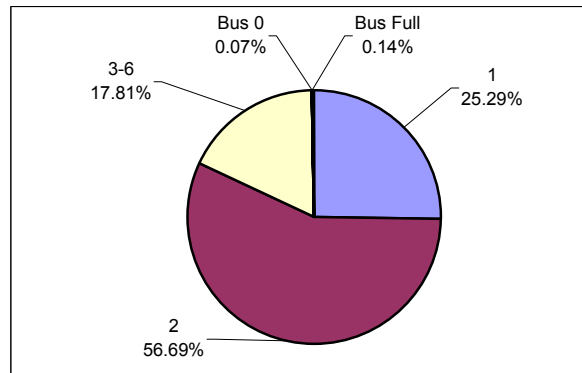
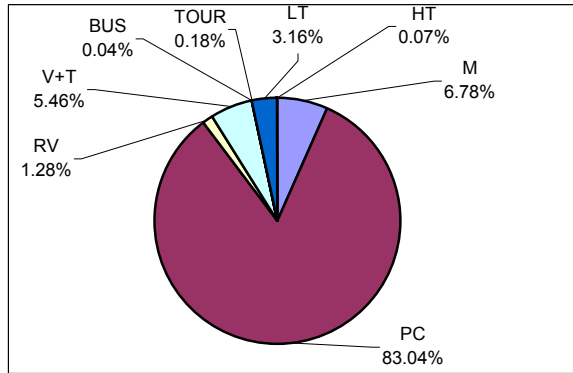
Location: STATION 35010

Location: STATION 35010



Location: STATION 35031

Location: STATION 35031



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

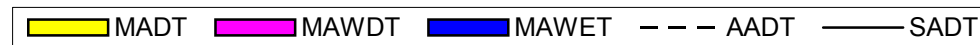
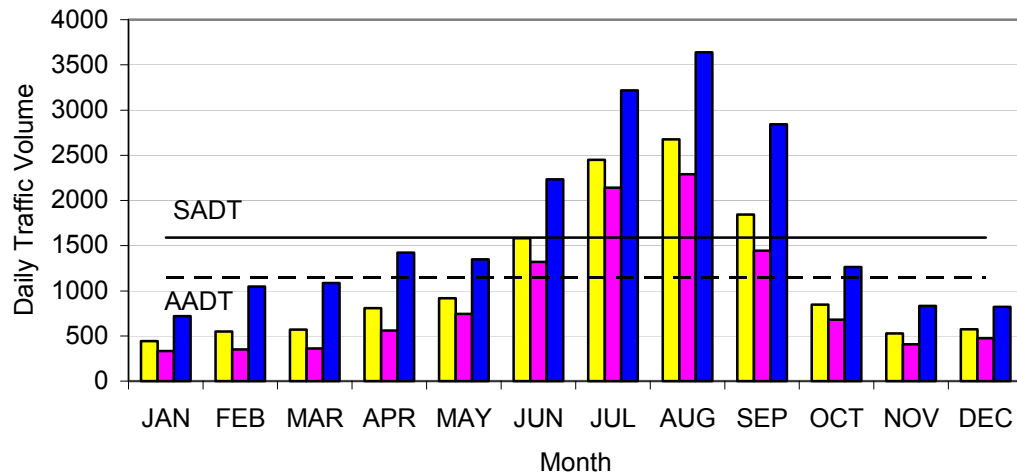
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

MOUNT RAINIER NATIONAL PARK

Station: 35010 Stevens Canyon Rd.- West Side Rd. to Nisqually Entrance

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	2004	442	331	719	1.5972	2.2086
2	2004	549	349	1049	1.0948	1.5138
3	2004	570	362	1088	1.0555	1.4596
4	2004	807	561	1423	0.8070	1.1160
5	2004	917	744	1350	0.8507	1.1763
6	2004	1582	1322	2233	0.5143	0.7112
7	2004	2448	2140	3219	0.3568	0.4933
8	2003	2676	2291	3640	0.3155	0.4363
9	2003	1843	1443	2844	0.4038	0.5584
10	2003	845	678	1264	0.9086	1.2563
11	2003	527	406	831	1.3820	1.9110
12	2003	575	476	820	1.4005	1.9366
Annual Average Daily Traffic (AADT)				1148		
Annual Average Weekday Traffic (AAWDT)				925		
Annual Average Weekend Traffic (AAWET)				1707		
Seasonal Average Daily Traffic (SADT)				1588		

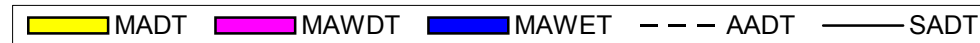
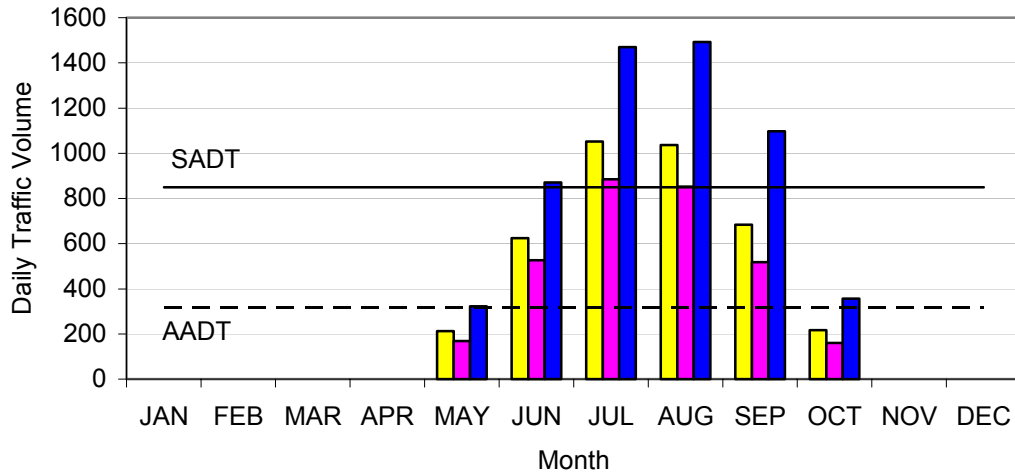


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

MOUNT RAINIER NATIONAL PARK

Station: 35022 Stevens Canyon Rd.- Wash. Hwy 123 to Box Canyon Turnout

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	C	0	0	0	0.0000	0.0000
2	C	0	0	0	0.0000	0.0000
3	C	0	0	0	0.0000	0.0000
4	C	0	0	0	0.0000	0.0000
5	2004	212	168	323	0.0000	2.6285
6	2004	625	527	871	0.3660	0.9747
7	2004	1052	885	1470	0.2168	0.5776
8	2003	1036	853	1492	0.2136	0.5690
9	2003	684	518	1097	0.2906	0.7739
10	2003	216	160	357	0.8929	2.3782
11	C	0	0	0	0.0000	0.0000
12	C	0	0	0	0.0000	0.0000
Annual Average Daily Traffic (AADT)				319		
Annual Average Weekday Traffic (AAWDT)				259		
Annual Average Weekend Traffic (AAWET)				468		
Seasonal Average Daily Traffic (SADT)				849		

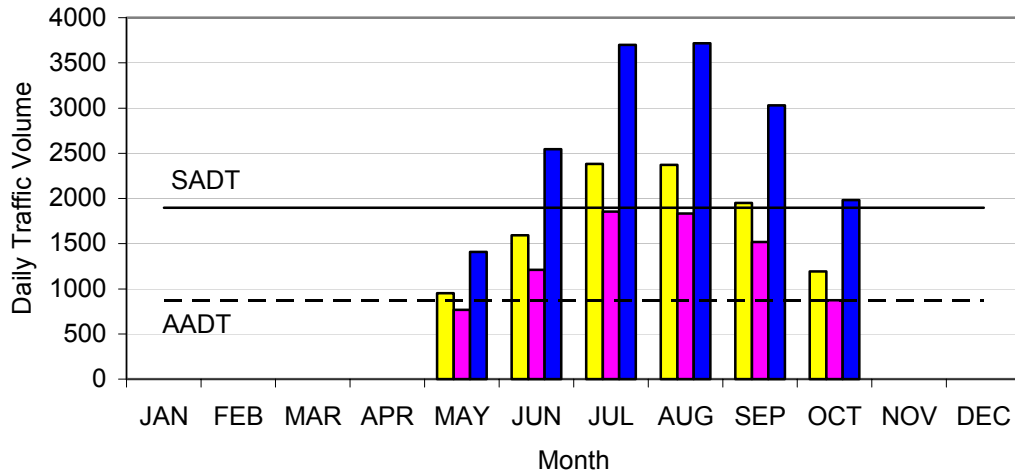


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.
 C = road is seasonally closed to traffic

MOUNT RAINIER NATIONAL PARK

Station: 35031 U.S. Hwy 410 - North Boundary to Sunrise Rd.

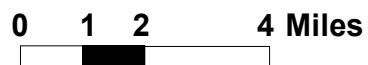
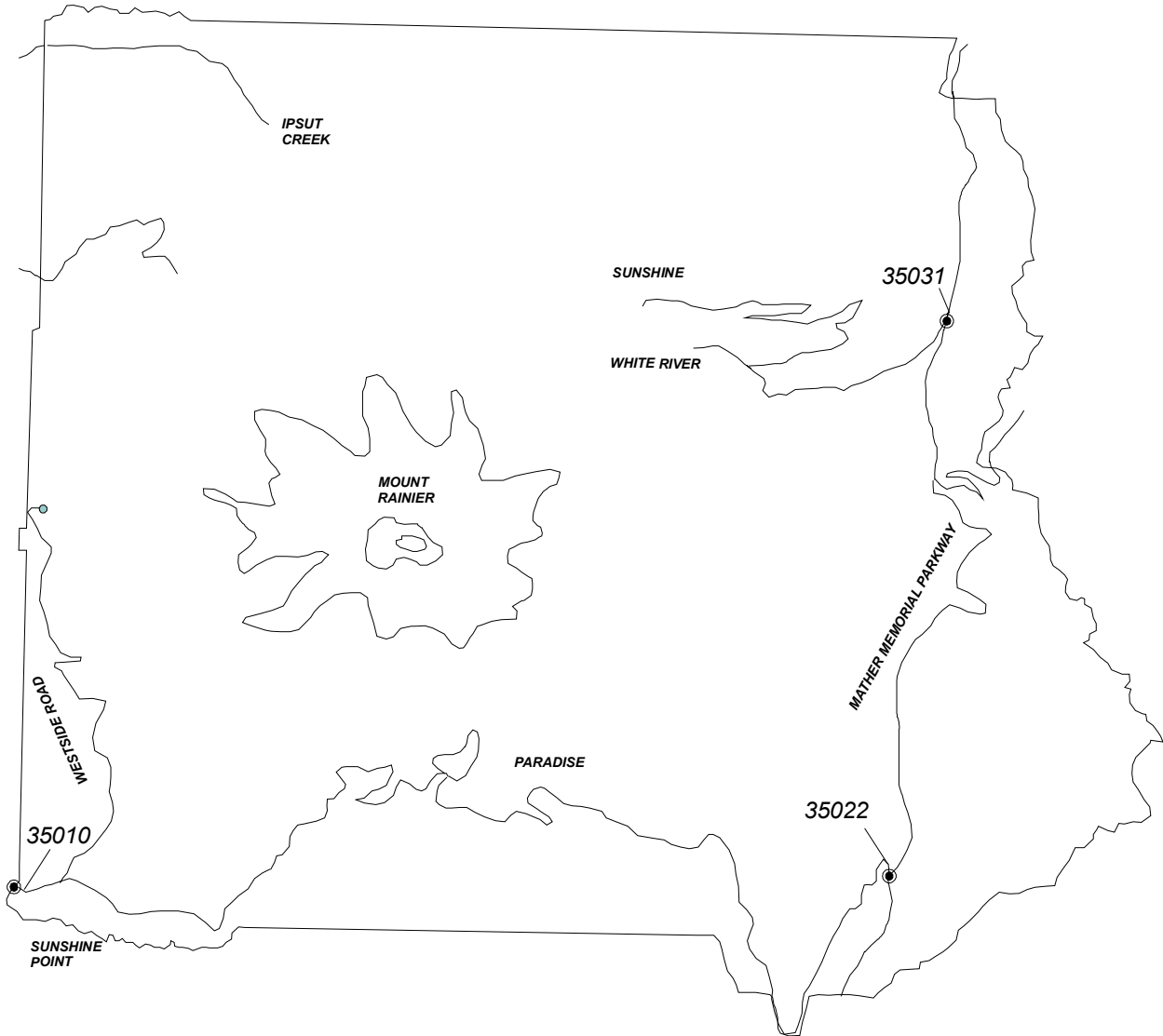
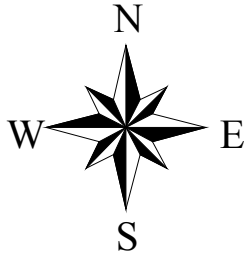
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	C	0	0	0	0.0000	0.0000
2	C	0	0	0	0.0000	0.0000
3	C	0	0	0	0.0000	0.0000
4	C	0	0	0	0.0000	0.0000
5	2004	951	768	1410	0.6170	1.3461
6	2004	1593	1212	2544	0.3419	0.7461
7	2004	2383	1856	3699	0.2352	0.5131
8	2003	2371	1833	3716	0.2341	0.5108
9	2003	1949	1517	3031	0.2870	0.6262
10	2003	1192	876	1982	0.4389	0.9576
11	C	0	0	0	0.0000	0.0000
12	C	0	0	0	0.0000	0.0000
Annual Average Daily Traffic (AADT)				870		
Annual Average Weekday Traffic (AAWDT)				672		
Annual Average Weekend Traffic (AAWET)				1365		
Seasonal Average Daily Traffic (SADT)				1898		

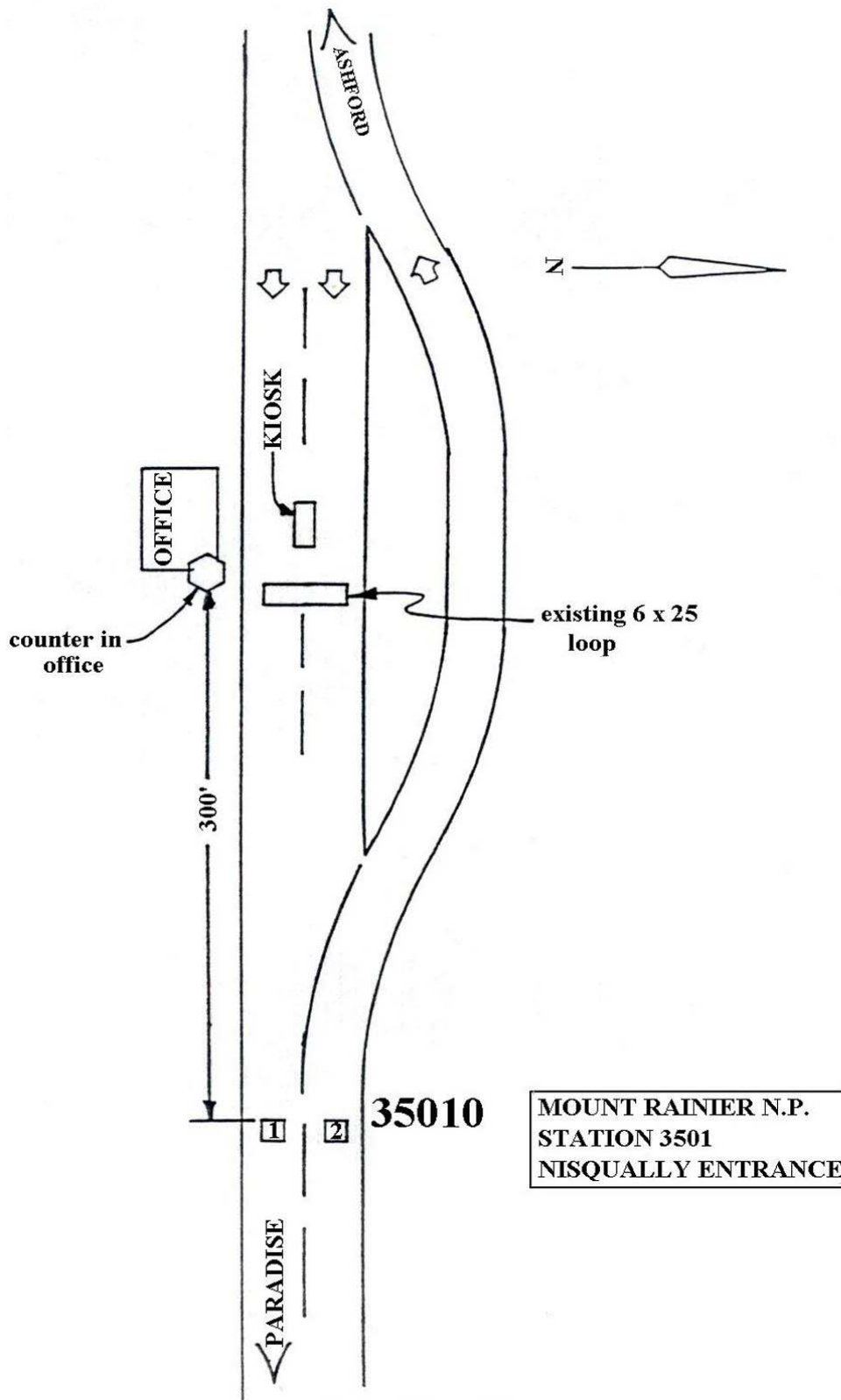


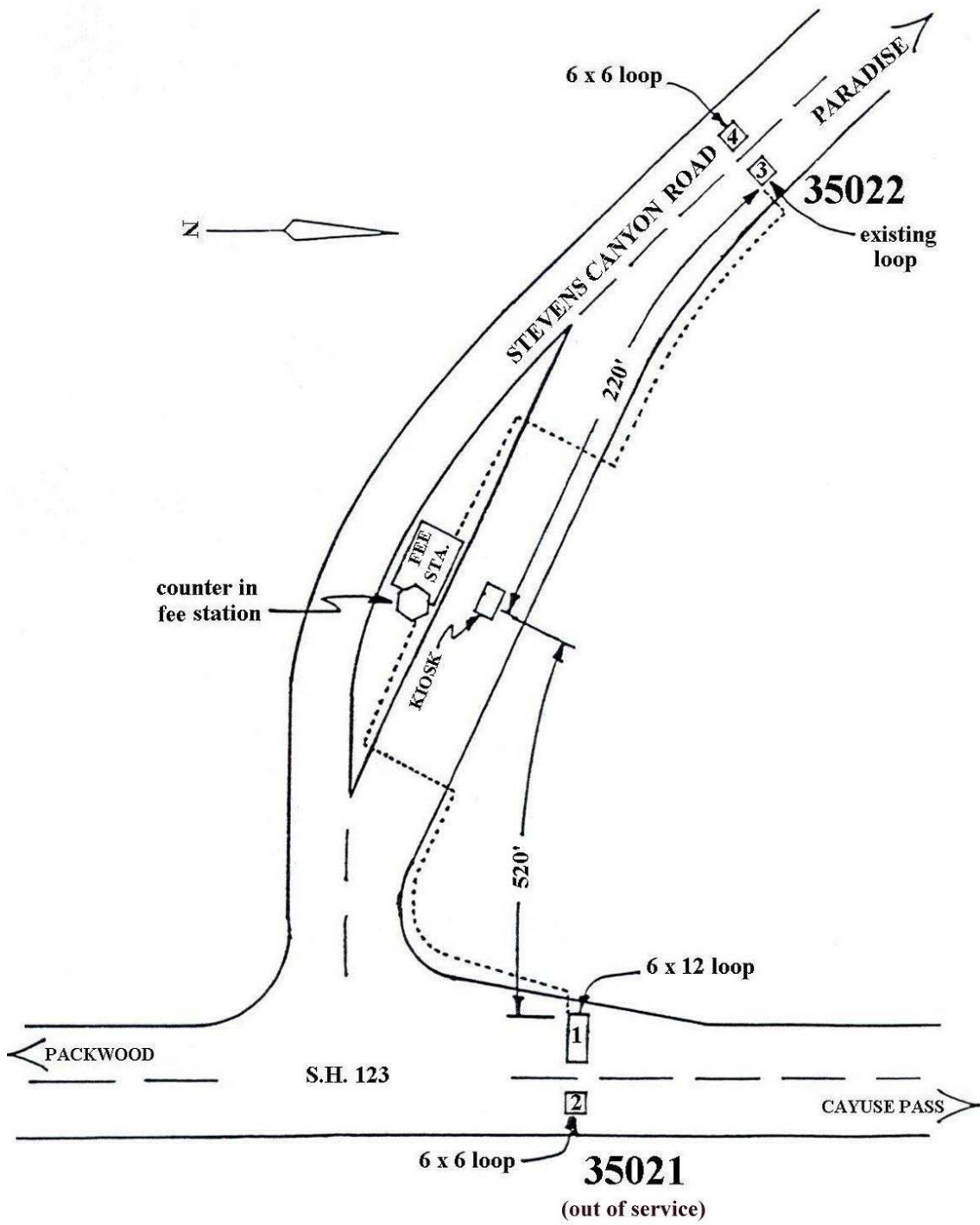
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.
 C = road is seasonally closed to traffic

Mount Rainier National Park Washington

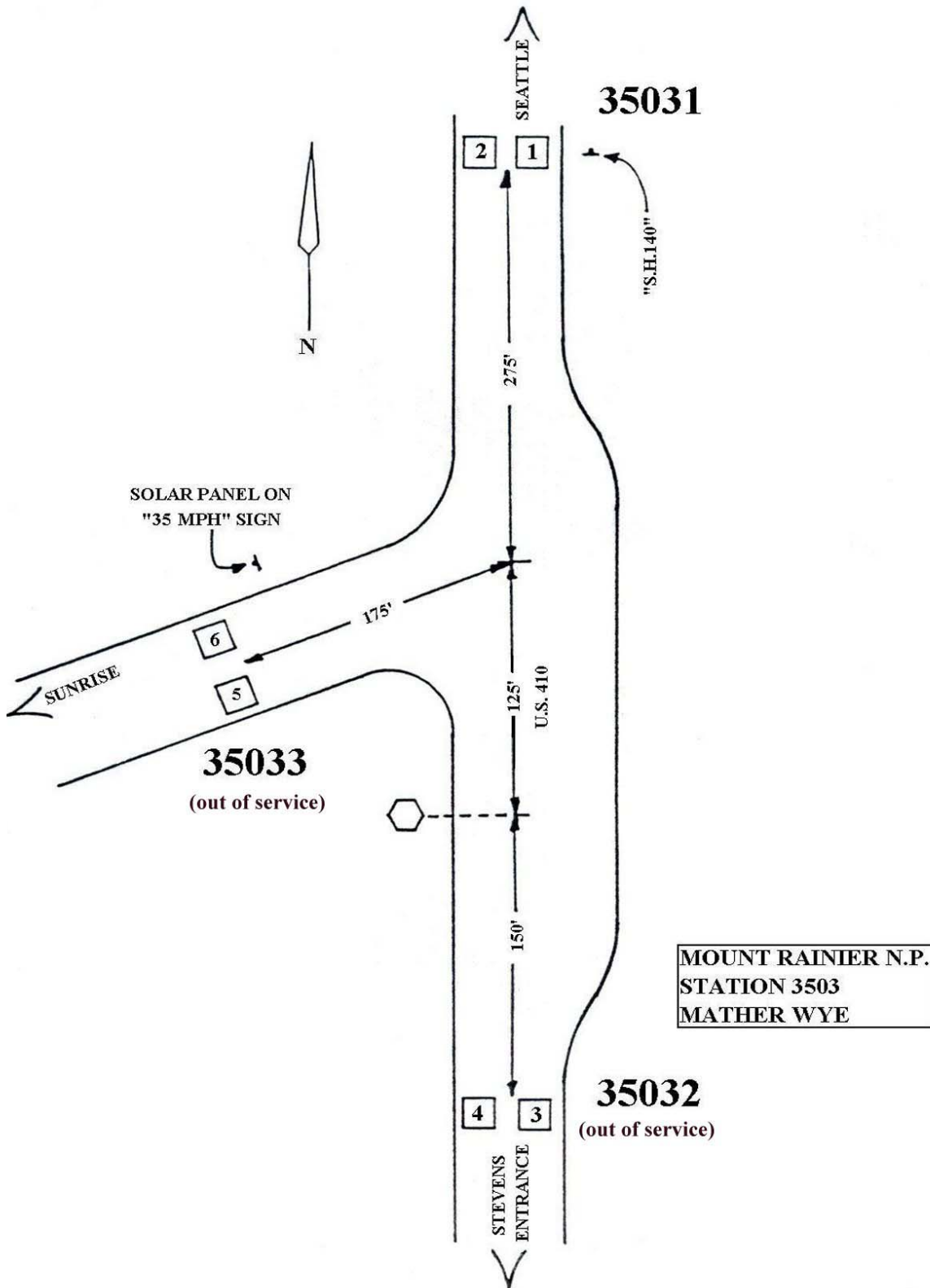
U.S. Department of Interior
NATIONAL PARK SERVICE







MOUNT RAINIER N.P.
STATION 3502
STEVENS CANYON ENTRANCE

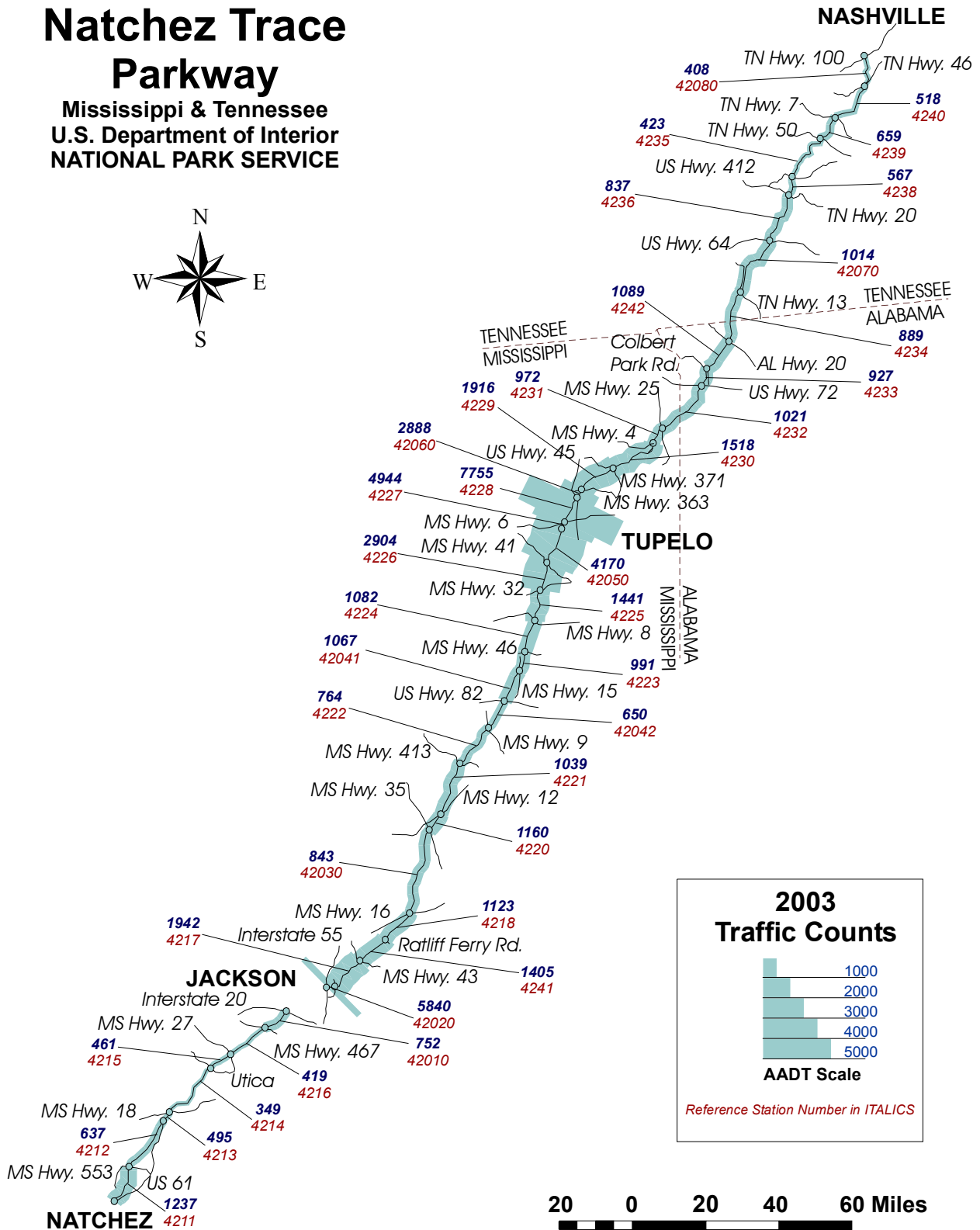
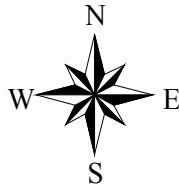


Natchez Trace Parkway Traffic Package



Natchez Trace Parkway

Mississippi & Tennessee
U.S. Department of Interior
NATIONAL PARK SERVICE



NATCHEZ TRACE PARKWAY

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
1	NT Parkway - US 61 near Natchez to MS Hwy 553	4211	12.01	410	742	603	1237	1797	3253	2643	5423
1	NT Parkway - MS Hwy 553 to US 61 near Port Gibson	4212	16.82	520	768	766	637	3192	4715	4703	3911
1	NT Parkway - US 61 near Port Gibson to MS Hwy 18	4213	4.17	440	481	403	495	670	732	613	753
1	NT Parkway - MS Hwy 18 to Utica Road	4214	17.78	440	569	436	349	2855	3693	2830	2265
1	NT Parkway - Utica Road to MS Hwy 27	4215	7.53	440	661	492	461	1209	1817	1352	1267
1	NT Parkway - MS Hwy 27 to MS Hwy 467	4216	12.47	650	516	500	419	2959	2349	2276	1907
1	NT Parkway - MS Hwy 467 to Interstate Hwy 20	42010	8.45	728	713	714	752	2245	2199	2202	2319
1	NT Parkway - Interstate Hwy 55 to Airport Road	42020	2.15	6155	6767	7543	5840	4830	5310	5919	4583
1	NT Parkway - Airport Road to MS Hwy 43	4217	11.31	2500	2424	2885	1942	10320	10007	11910	8017
1	NT Parkway - MS Hwy 43 to Ratliff Ferry Road	4241	8.99	2500	1925	1829	1405	8203	6317	6002	4610
1	NT Parkway - Ratliff Ferry Road MS Hwy 16	4218	11.25	2080	1247	2167	1123	8541	5120	8898	4611
1	NT Parkway - MS Hwy 16 to MS Hwy 35	42030	24.92	1641	1513	2120	843	14926	13762	19283	7668
1	NT Parkway - MS Hwy 35 to MS Hwy 12	4220	5.61	1430	813	1826	1160	2928	1665	3739	2375
1	NT Parkway - MS Hwy 12 to MS Hwy 413	4221	15.26	1140	863	1975	1039	6350	4807	11001	5787
1	NT Parkway - MS Hwy 413 to MS Hwy 9	4222	14.56	1230	1012	1774	764	6537	5378	9428	4060
1	NT Parkway - MS Hwy 9 to US Hwy 82	42042	8.82	1075	1022	1216	650	3461	3290	3915	2093
1	NT Parkway - US Hwy 82 to MS Hwy 15	42041	10.16	1088	1074	1278	1067	4035	3983	4739	3957
1	NT Parkway - MS Hwy 15 to MS Hwy 46	4223	5.21	1030	881	1619	991	1959	1675	3079	1885
1	NT Parkway - MS Hwy 46 to MS Hwy 8	4224	9.89	920	1059	2760	1082	3321	3823	9963	3906
1	NT Parkway - MS Hwy 8 to MS Hwy 32	4225	9.76	1210	1316	3005	1441	4311	4688	10705	5133
1	NT Parkway - MS Hwy 32 to MS Hwy 41	4226	7.78	1780	2344	4126	2904	5055	6656	11717	8246
1	NT Parkway - MS Hwy 41 to Tupelo Cliff Gookin Blvd	42050	11.6	3959	4423	5263	4170	16762	18727	22284	17656
1	NT Parkway - Tupelo Cliff Gookin Blvd to MS Hwy 6	4227	1.3	3050	4791	2210	4944	1447	2273	1049	2346
1	NT Parkway - MS Hwy 6 to US Hwy 45	4228	6.62	2920	4172	3982	7755	7056	10081	9622	18738
1	NT Parkway - US Hwy 45 to MS Hwy 363	42060	4.22	1940	2270	2851	2888	2988	3496	4391	4448
1	NT Parkway - MS Hwy 363 to MS Hwy 371	4229	11.44	1080	1613	1684	1916	4510	6735	7032	8000
1	NT Parkway - MS Hwy 371 to MS Hwy 4	4230	10.82	810	1097	1187	1518	3199	4332	4688	5995
1	NT Parkway - MS Hwy 4 to MS Hwy 25	4231	9.93	620	867	1214	972	2247	3142	4400	3523
1	NT Parkway - MS Hwy 25 to US Hwy 72 in Alabama	4232	17.58	510	970	1164	1021	3273	6224	7469	6551
1	NT Parkway - US Hwy 72 in Alabama to Colbert Park Road	4233	6.94	670	529	930	927	1697	1340	2356	2348
1	NT Parkway - Colbert Park Road to Alabama Hwy 20	4242	8.88	670	318	830	1089	2172	1031	2690	3530
1	NT Parkway - Alabama Hwy 20 to Tennessee Hwy 13	4234	14.42	670	489	1014	889	3526	2574	5337	4679
1	NT Parkway - Tennessee Hwy 13 to US Hwy 64	42070	19.16	685	954	1135	1014	4790	6672	7938	7091
1	NT Parkway - US Hwy 64 to Tennessee Hwy 20	4236	15.87	750	206	659	837	4344	1193	3817	4848
1	NT Parkway - Tennessee Hwy 20 to US Hwy 412	4238	5.23	480	249	851	567	916	475	1625	1082
1	NT Parkway - US Hwy 412 to Tennessee Hwy 50	4235	16.79	210	139	625	423	1287	852	3830	2592
1	NT Parkway - Tennessee Hwy 50 to Tennessee Hwy 7 at Fly	4239	10.2	210	156	641	659	782	581	2386	2453
1	NT Parkway - Tennessee Hwy 7 at Fly to Tennessee Hwy 46	4240	16.3	210	152	360	518	1249	904	2142	3082
1	NT Parkway - Tennessee Hwy 46 to Tennessee Hwy 100	42080	15.6	210	152	360	408	1196	865	2050	2323
VMT SUMMARY								163146	166737	232021	186065

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

NATCHEZ TRACE PARKWAY

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
42010	NT Parkway - MS Hwy 467 to Interstate Hwy 20					760	752	Self
42020	NT Parkway - Interstate Hwy 55 to Airport Road					5893	5840	Self
42030	NT Parkway - MS Hwy 16 to MS Hwy 35					875	843	Self
42060	NT Parkway - US Hwy 45 to MS Hwy 363					2949	2888	Self
42080	NT Parkway - Tennessee Hwy 46 to Tennessee Hwy 100					452	408	Self
42041	NT Parkway - US Hwy 82 to MS Hwy 15	10/21/03	1120	0.988701	0.953013	1107	1067	42030
42042	NT Parkway - MS Hwy 9 to US Hwy 82	10/21/03	682	0.988701	0.953013	674	650	42030
42050	NT Parkway - MS Hwy 41 to Tupelo Cliff Gookin Blvd	10/21/03	4204	1.013054	0.991984	4259	4170	42060
42070	NT Parkway - Tennessee Hwy 13 to US Hwy 64	10/21/03	1022	1.013054	0.991984	1035	1014	42060
4211	NT Parkway - US 61 near Natchez to MS Hwy 553	10/21/03	1389	0.900474	0.890897	1251	1237	42010
4212	NT Parkway - MS Hwy 553 to US 61 near Port Gibson	10/21/03	715	0.900474	0.890897	644	637	42010
4213	NT Parkway - US 61 near Port Gibson to MS Hwy 18	10/21/03	556	0.900474	0.890897	501	495	42010
4214	NT Parkway - MS Hwy 18 to Utica Road	10/21/03	392	0.900474	0.890897	353	349	42010
4215	NT Parkway - Utica Road to MS Hwy 27	10/21/03	518	0.900474	0.890897	466	461	42010
4216	NT Parkway - MS Hwy 27 to MS Hwy 467	10/21/03	470	0.900474	0.890897	423	419	42010
4217	NT Parkway - Airport Road to MS Hwy 43	10/21/03	2185	0.896819	0.888779	1960	1942	42020
4218	NT Parkway - Ratliff Ferry Road MS Hwy 16	10/21/03	1178	0.988701	0.953013	1165	1123	42030
4220	NT Parkway - MS Hwy 35 to MS Hwy 12	10/21/03	1217	0.988701	0.953013	1203	1160	42030
4221	NT Parkway - MS Hwy 12 to MS Hwy 413	10/21/03	1090	0.988701	0.953013	1078	1039	42030
4222	NT Parkway - MS Hwy 413 to MS Hwy 9	10/21/03	802	0.988701	0.953013	793	764	42030
4223	NT Parkway - MS Hwy 15 to MS Hwy 46	10/21/03	1040	0.988701	0.953013	1028	991	42030
4224	NT Parkway - MS Hwy 46 to MS Hwy 8	10/21/03	1135	0.988701	0.953013	1122	1082	42030
4225	NT Parkway - MS Hwy 8 to MS Hwy 32	10/21/03	1512	0.988701	0.953013	1495	1441	42030
4226	NT Parkway - MS Hwy 32 to MS Hwy 41	10/21/03	3047	0.988701	0.953013	3013	2904	42030
4227	NT Parkway - Tupelo Cliff Gookin Blvd to MS Hwy 6	10/21/03	4984	1.013054	0.991984	5049	4944	42060
4228	NT Parkway - MS Hwy 6 to US Hwy 45	10/21/03	7818	1.013054	0.991984	7920	7755	42060
4229	NT Parkway - MS Hwy 363 to MS Hwy 371	10/21/03	1931	1.013054	0.991984	1956	1916	42060
4230	NT Parkway - MS Hwy 371 to MS Hwy 4	10/21/03	1530	1.013054	0.991984	1550	1518	42060
4231	NT Parkway - MS Hwy 4 to MS Hwy 25	10/21/03	980	1.013054	0.991984	993	972	42060
4232	NT Parkway - MS Hwy 25 to US Hwy 72 in Alabama	10/21/03	1029	1.013054	0.991984	1042	1021	42060
4233	NT Parkway - US Hwy 72 in Alabama to Colbert Park Road	10/21/03	934	1.013054	0.991984	946	927	42060
4234	NT Parkway - Alabama Hwy 20 to Tennessee Hwy 13	10/21/03	896	1.013054	0.991984	908	889	42060
4235	NT Parkway - US Hwy 412 to Tennessee Hwy 50	10/21/03	426	1.013054	0.991984	432	423	42060
4236	NT Parkway - US Hwy 64 to Tennessee Hwy 20	10/21/03	844	1.013054	0.991984	855	837	42060
4238	NT Parkway - Tennessee Hwy 20 to US Hwy 412	10/21/03	572	1.013054	0.991984	579	567	42060
4239	NT Parkway - Tennessee Hwy 50 to Tennessee Hwy 7 at Fly	10/21/03	664	1.013054	0.991984	673	659	42060
4240	NT Parkway - Tennessee Hwy 7 at Fly to Tennessee Hwy 46	10/21/03	522	1.013054	0.991984	529	518	42060
4241	NT Parkway - MS Hwy 43 to Ratliff Ferry Road	10/21/03	1474	0.988701	0.953013	1457	1405	42030
4242	NT Parkway - Colbert Park Road to Alabama Hwy 20	10/21/03	1098	1.013054	0.991984	1112	1089	42060

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.

NATCHEZ TRACE PARKWAY

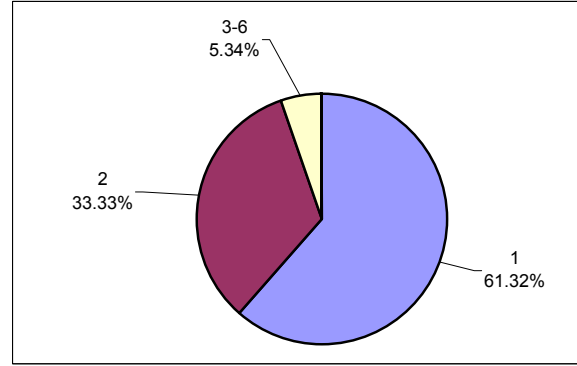
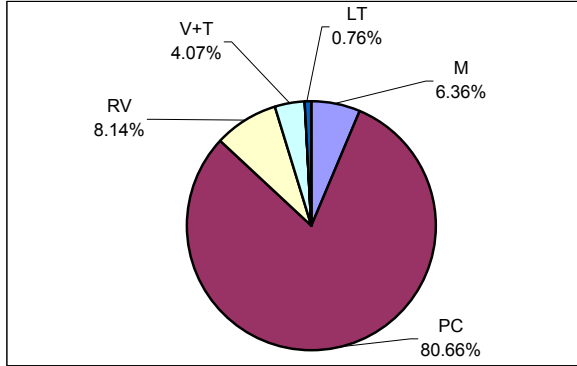
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

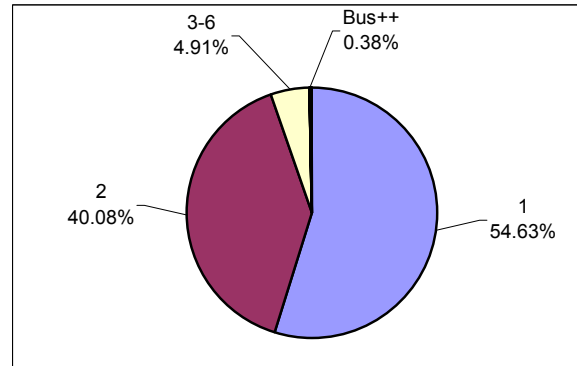
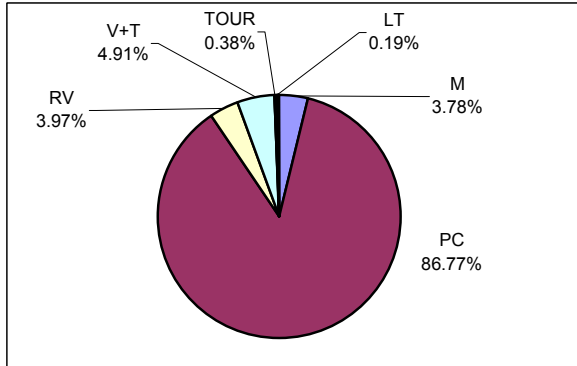
Location: STATION 42042

Location: STATION 42042



Location: STATION 42070

Location: STATION 42070



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

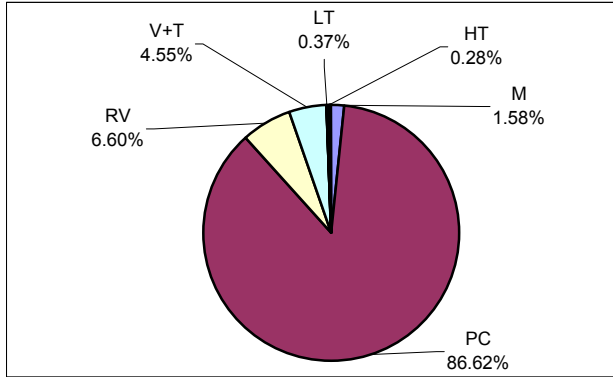
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

NATCHEZ TRACE PARKWAY

Vehicle Classification

Location: STATION 42060



CLASSIFICATION LEGEND:

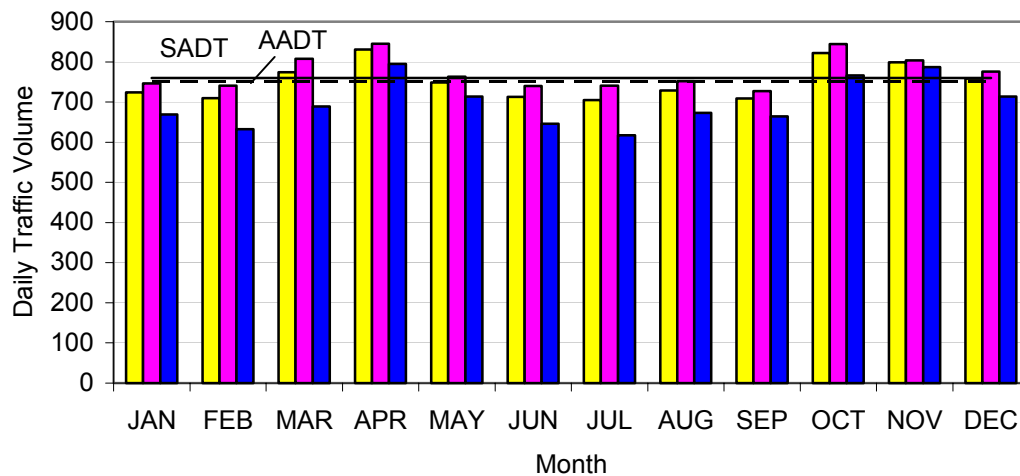
No.	Vehicle Type	FHWA Class
M	Motorcycle	Class 1
PC	Passenger Vehicles	Class 2
RV	Recreational Vehicles (RVs)	N/A
V+T	Vehicles pulling trailers or RVs	N/A
BUS	Transit Buses	Class 4
TOUR	Tour Buses	Class 4
LT	Light-duty Trucks	Classes 3, 5
HT	Heavy-duty Trucks	Classes 6 - 13

Note: Vehicle and occupancy classes represented by 0% vehicles are not shown on the charts.

NATCHEZ TRACE PARKWAY

Station: 42010 NT Parkway - MS Hwy 467 to Interstate Hwy 20

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	2002	724	746	669	1.0079	1.0188
2	2002	710	741	632	1.0147	1.0256
3	2002	774	808	689	0.9306	0.9406
4	2001	831	845	795	0.8898	0.8994
5	2001	749	763	714	0.9855	0.9961
6	2001	713	740	646	1.0161	1.0270
7	2001	705	741	617	1.0147	1.0256
8	2001	729	752	673	0.9999	1.0106
9	2001	709	727	664	1.0343	1.0454
10	2001	822	844	766	0.8909	0.9005
11	2001	799	804	787	0.9352	0.9453
12	2001	758	776	714	0.9690	0.9794
Annual Average Daily Traffic (AADT)				752		
Annual Average Weekday Traffic (AAWDT)				774		
Annual Average Weekend Traffic (AAWET)				697		
Seasonal Average Daily Traffic (SADT)				760		

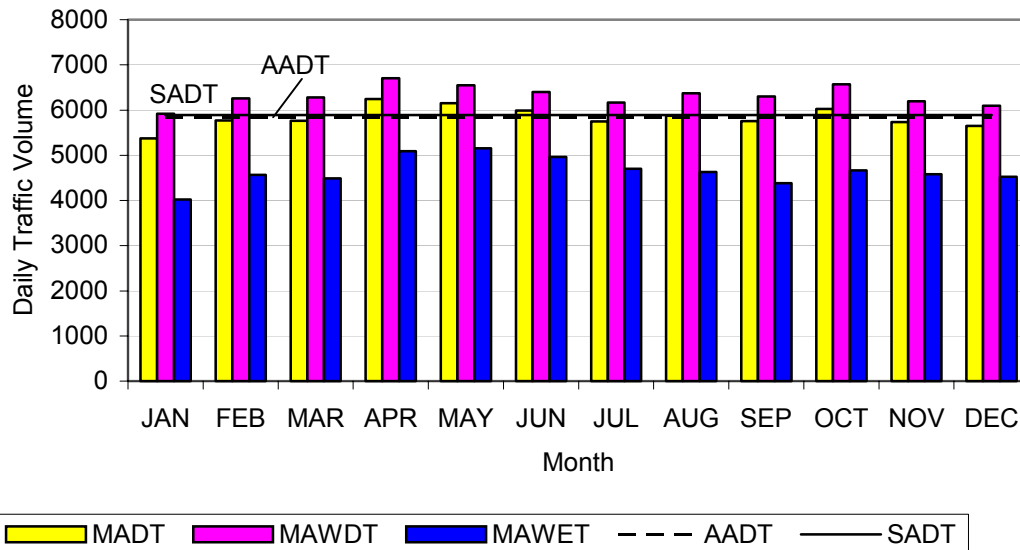


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

NATCHEZ TRACE PARKWAY

Station: 42020 NT Parkway - Interstate Hwy 55 to Airport Road

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	2002	5375	5917	4018	0.9870	0.9959
2	2002	5773	6256	4563	0.9335	0.9420
3	2002	5766	6277	4488	0.9304	0.9388
4	2001	6241	6702	5090	0.8714	0.8793
5	2001	6151	6551	5151	0.8915	0.8996
6	2001	5992	6403	4965	0.9121	0.9203
7	2001	5749	6168	4701	0.9468	0.9554
8	2001	5873	6371	4629	0.9167	0.9250
9	2001	5754	6303	4380	0.9266	0.9350
10	2001	6026	6571	4664	0.8888	0.8968
11	2001	5732	6192	4581	0.9432	0.9517
12	2001	5650	6099	4526	0.9576	0.9662
Annual Average Daily Traffic (AADT)				5840		
Annual Average Weekday Traffic (AAWDT)				6318		
Annual Average Weekend Traffic (AAWET)				4646		
Seasonal Average Daily Traffic (SADT)				5893		

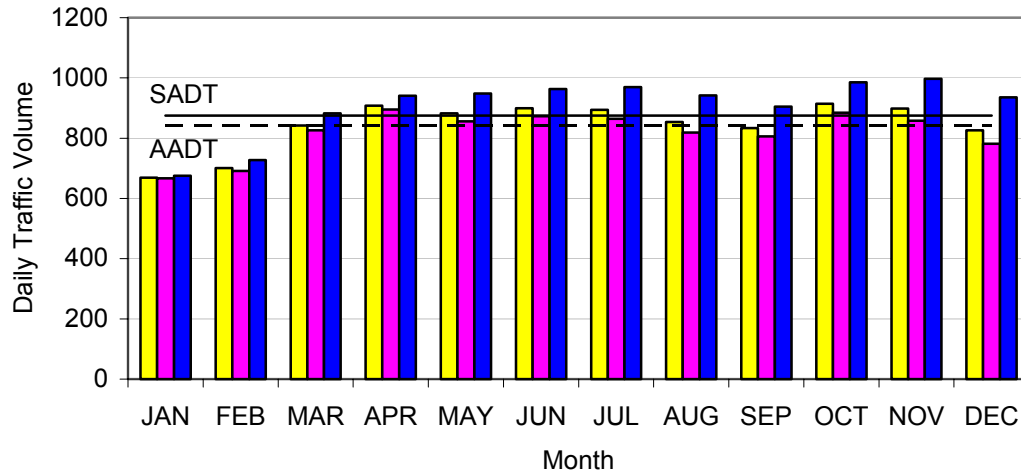


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

NATCHEZ TRACE PARKWAY

Station: 42030 NT Parkway - MS Hwy 16 to MS Hwy 35

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	669	667	675	1.2645	1.3118
2	2003	701	691	727	1.2206	1.2663
3	2003	842	826	882	1.0211	1.0593
4	2003	908	895	941	0.9424	0.9777
5	2003	882	856	948	0.9853	1.0222
6	2003	899	873	963	0.9661	1.0023
7	2003	894	864	970	0.9762	1.0127
8	2003	854	819	942	1.0298	1.0684
9	2003	834	806	905	1.0464	1.0856
10	2003	914	885	986	0.9530	0.9887
11	2002	898	858	997	0.9830	1.0198
12	2002	826	782	936	1.0785	1.1189
Annual Average Daily Traffic (AADT)				843		
Annual Average Weekday Traffic (AAWDT)				819		
Annual Average Weekend Traffic (AAWET)				906		
Seasonal Average Daily Traffic (SADT)				875		

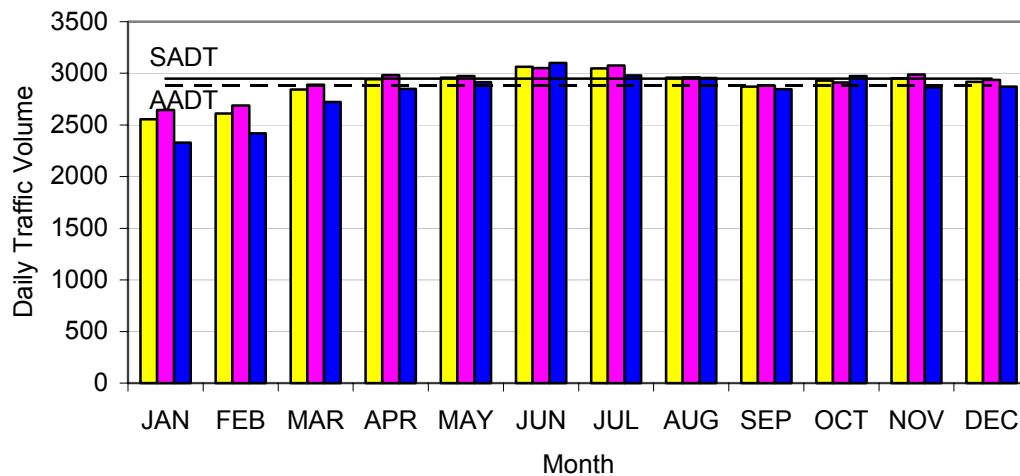


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

NATCHEZ TRACE PARKWAY

Station: 42060 NT Parkway - US Hwy 45 to MS Hwy 363

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	2555	2645	2330	1.0917	1.1149
2	2003	2611	2688	2418	1.0743	1.0971
3	2003	2842	2890	2722	0.9992	1.0204
4	2003	2944	2982	2849	0.9684	0.9889
5	2003	2957	2973	2916	0.9713	0.9919
6	2003	3064	3050	3099	0.9468	0.9669
7	2003	3049	3076	2981	0.9388	0.9587
8	2003	2959	2962	2954	0.9749	0.9956
9	2003	2871	2881	2845	1.0023	1.0236
10	2003	2929	2911	2975	0.9920	1.0131
11	2002	2953	2988	2866	0.9664	0.9869
12	2002	2918	2936	2871	0.9835	1.0044
Annual Average Daily Traffic (AADT)				2888		
Annual Average Weekday Traffic (AAWDT)				2915		
Annual Average Weekend Traffic (AAWET)				2819		
Seasonal Average Daily Traffic (SADT)				2949		

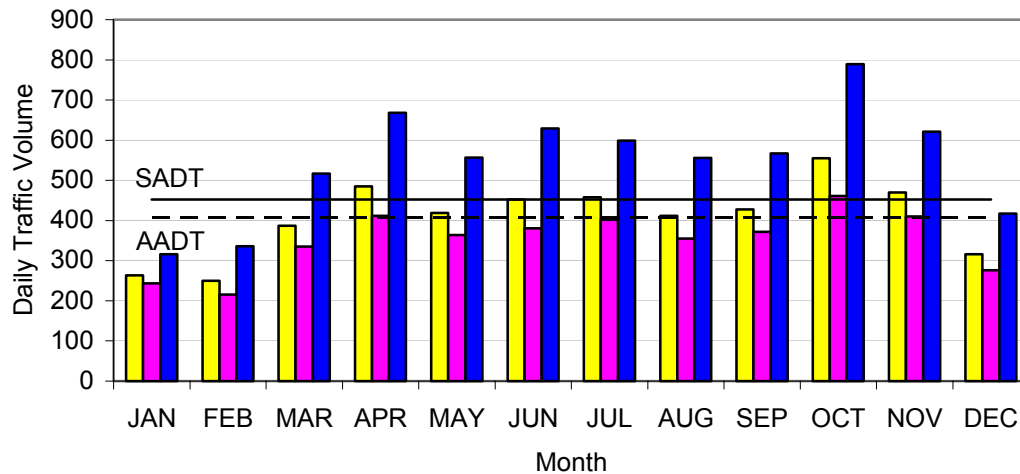


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

NATCHEZ TRACE PARKWAY

Station: 42080 NT Parkway - Tennessee Hwy 46 to Tennessee Hwy 100

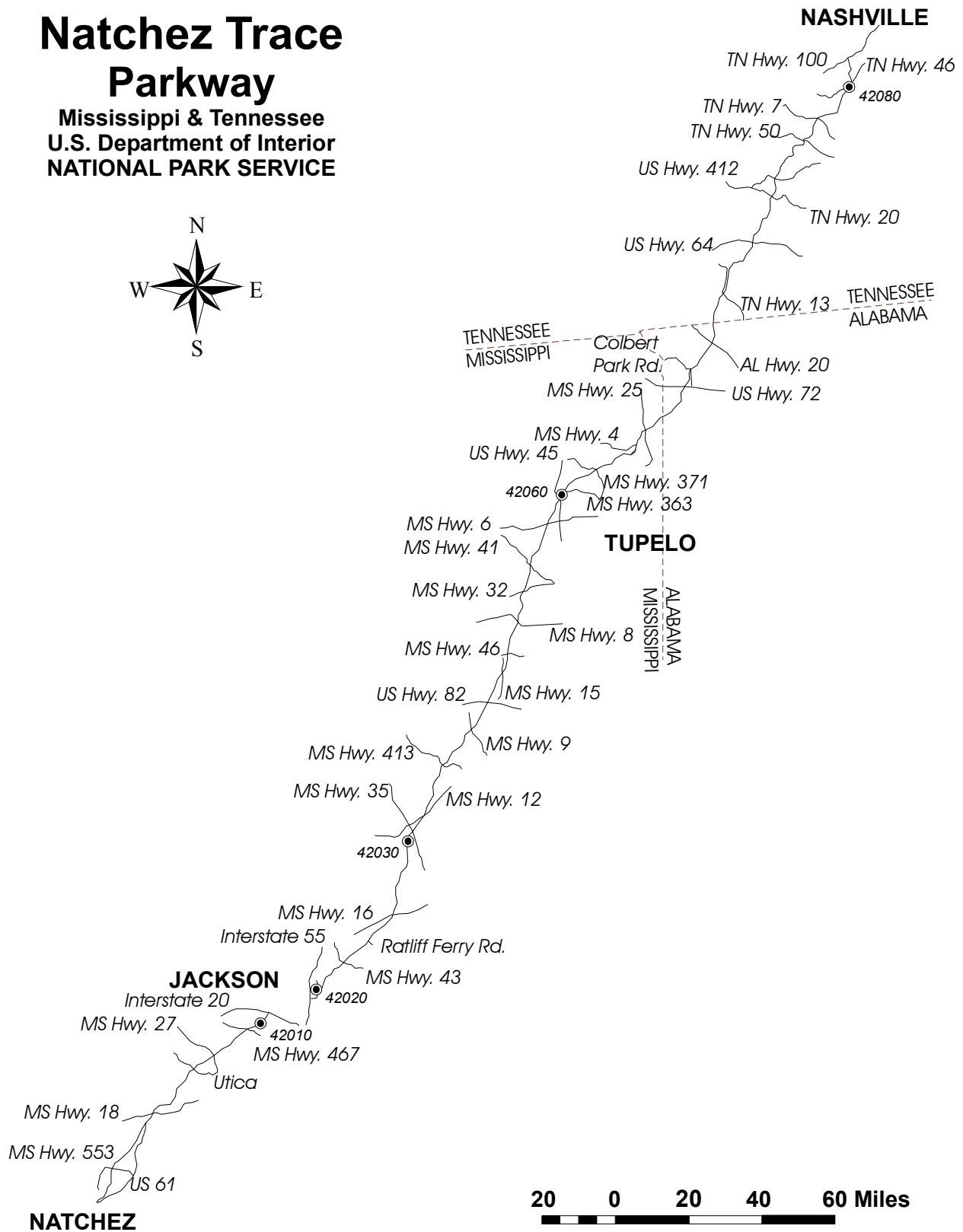
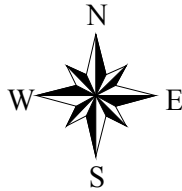
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	264	244	316	1.6721	1.8525
2	2003	250	216	336	1.8889	2.0926
3	2003	387	335	517	1.2179	1.3493
4	2003	485	412	668	0.9903	1.0971
5	2003	419	364	557	1.1209	1.2418
6	2003	452	381	629	1.0709	1.1864
7	2003	458	402	599	1.0149	1.1244
8	2003	412	355	556	1.1493	1.2732
9	2003	428	372	567	1.0968	1.2151
10	2003	555	461	789	0.8850	0.9805
11	2002	470	410	621	0.9951	1.1024
12	2002	316	276	417	1.4783	1.6377
Annual Average Daily Traffic (AADT)				408		
Annual Average Weekday Traffic (AAWDT)				352		
Annual Average Weekend Traffic (AAWET)				548		
Seasonal Average Daily Traffic (SADT)				452		

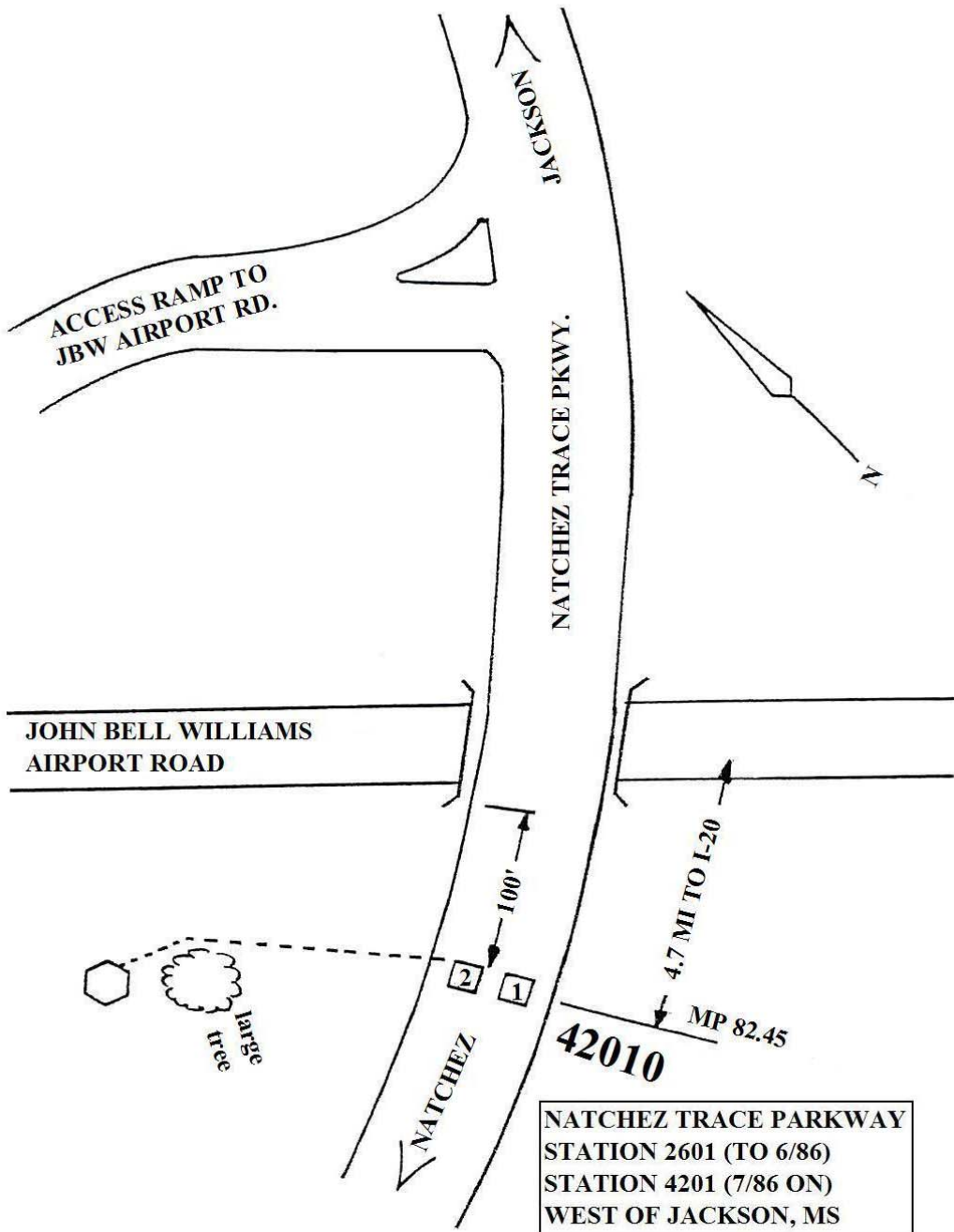


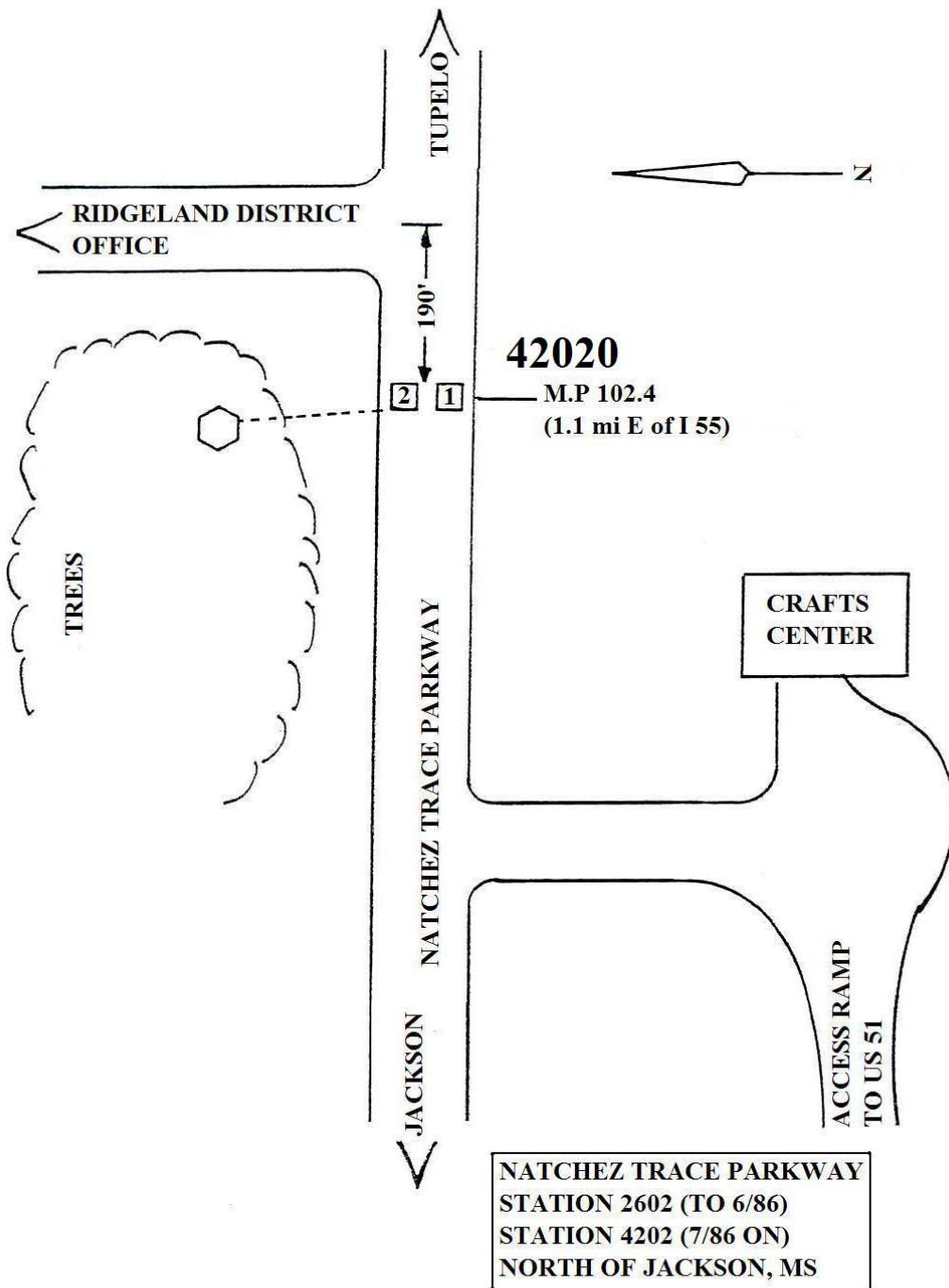
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

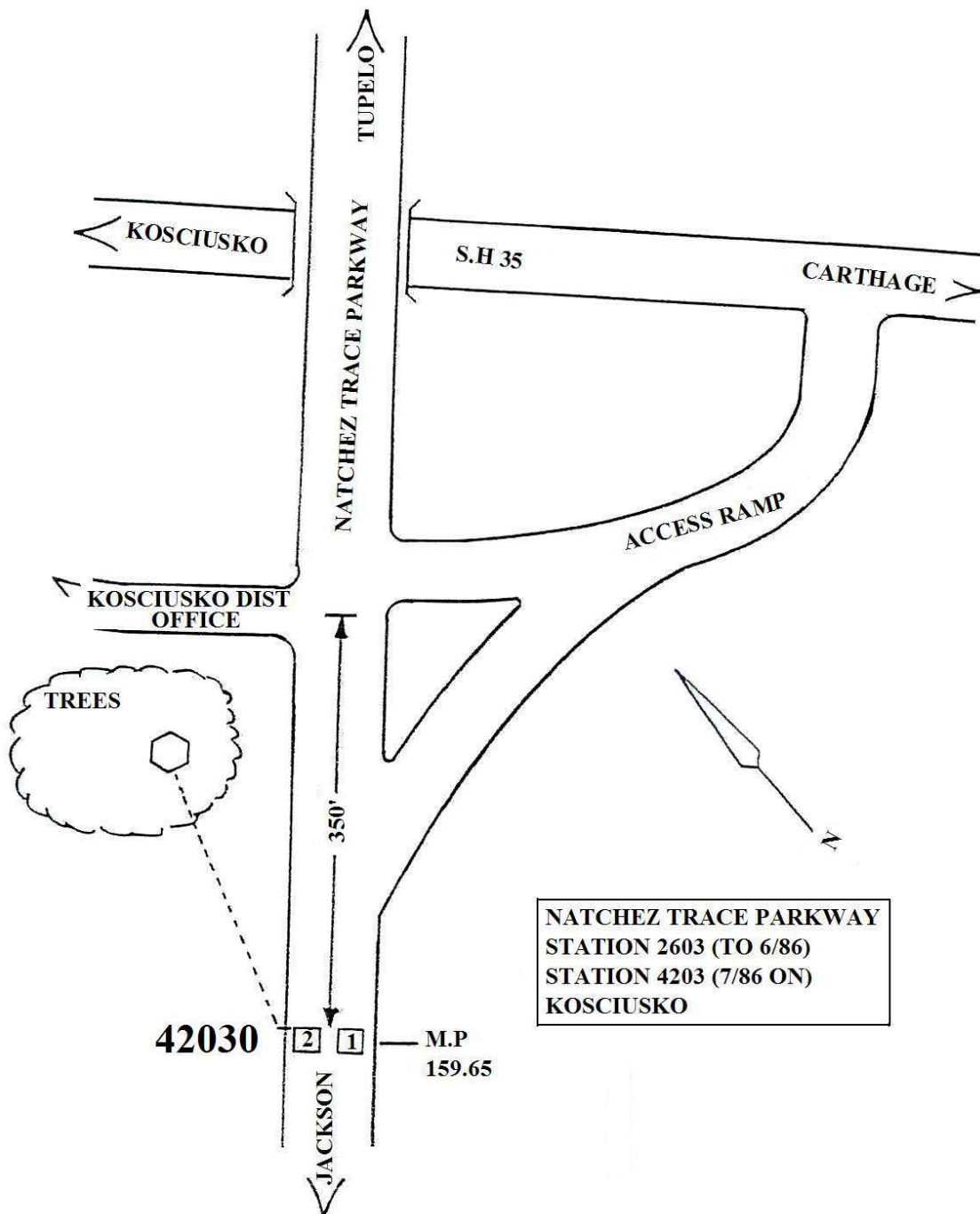
Natchez Trace Parkway

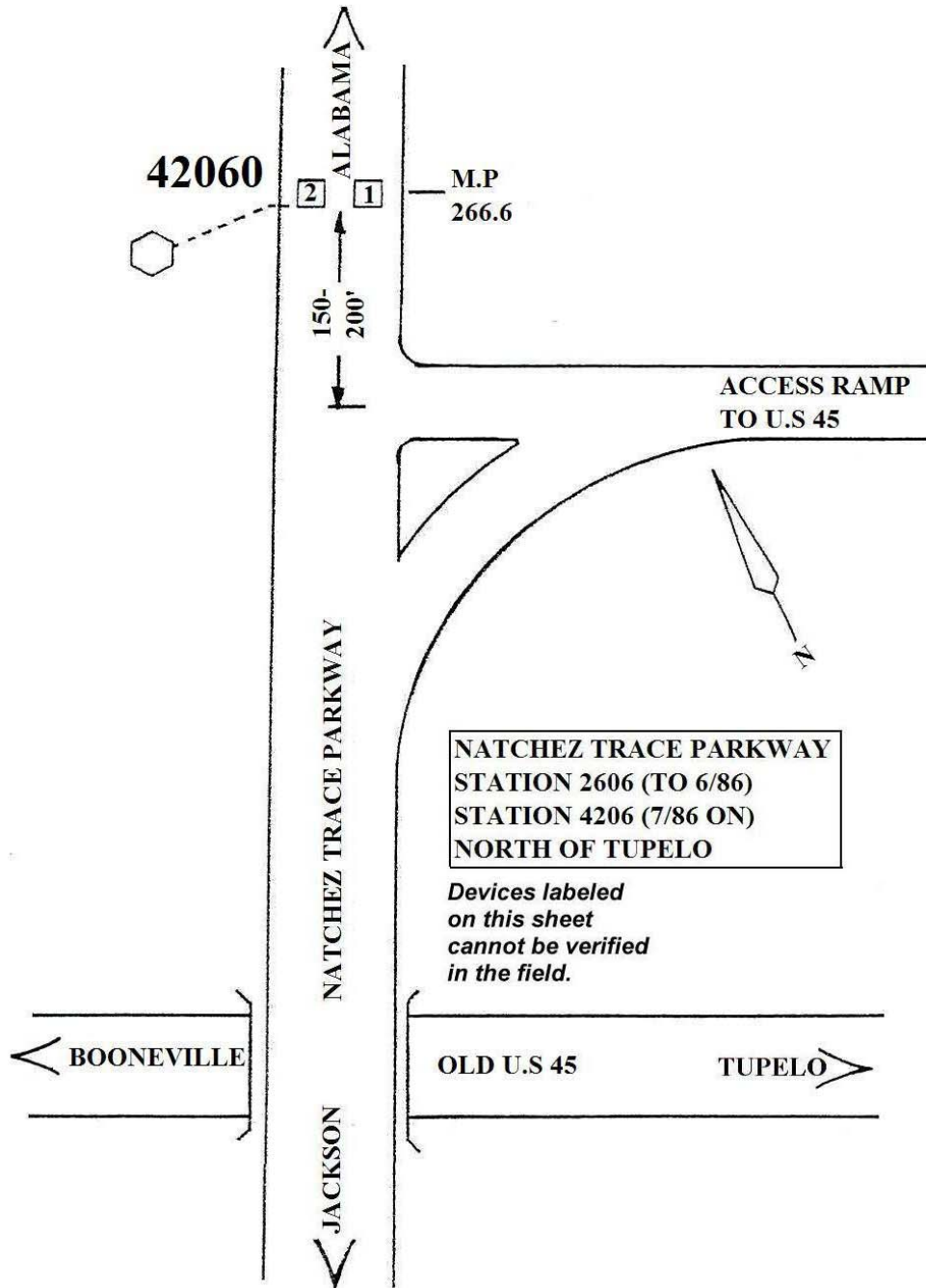
Mississippi & Tennessee
U.S. Department of Interior
NATIONAL PARK SERVICE

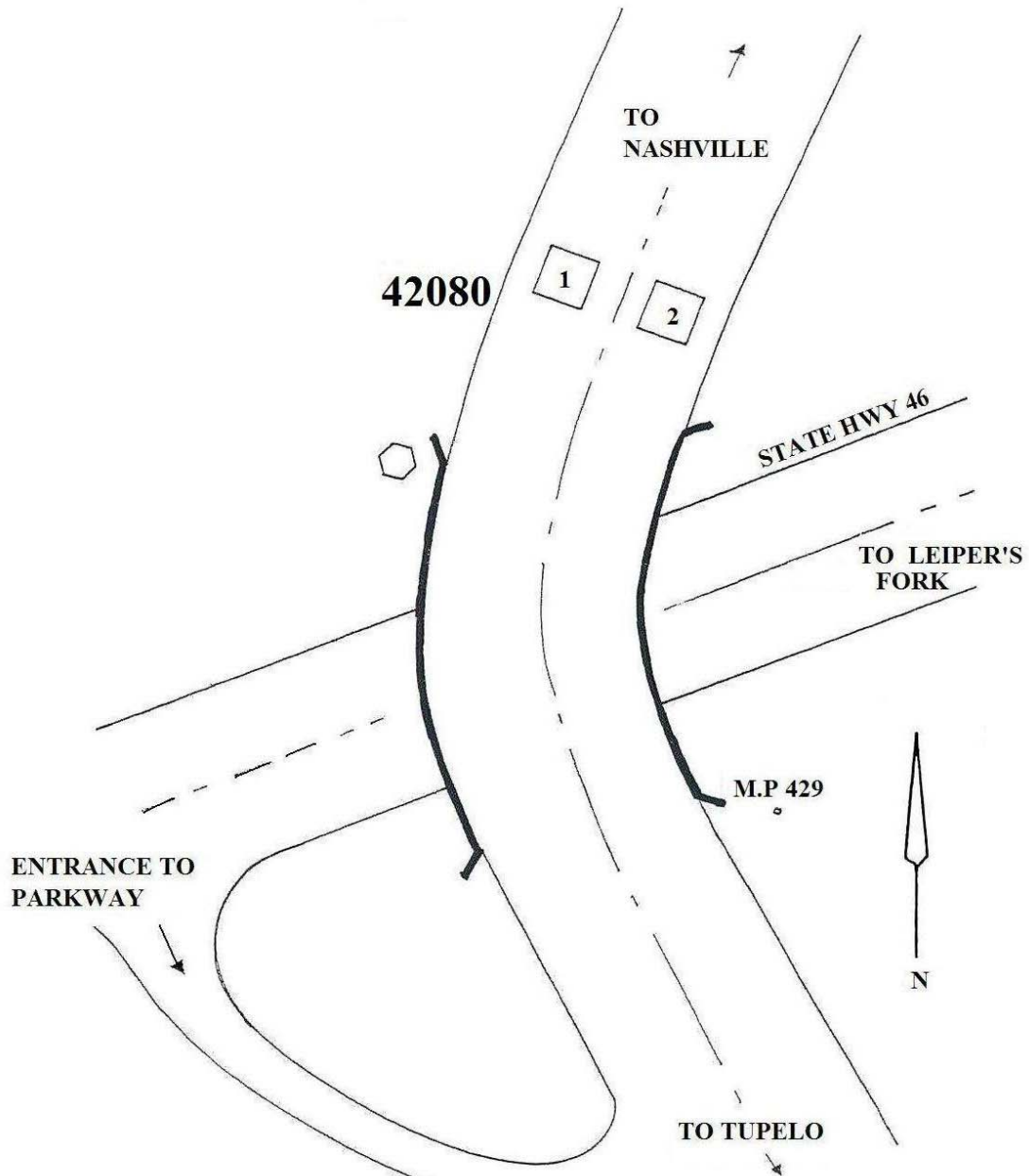












**NATCHEZ TRACE PARKWAY
STATION 4208
LEIPER'S FORK**

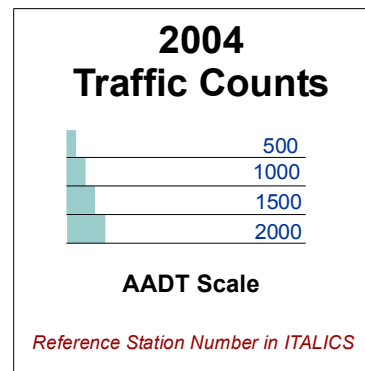
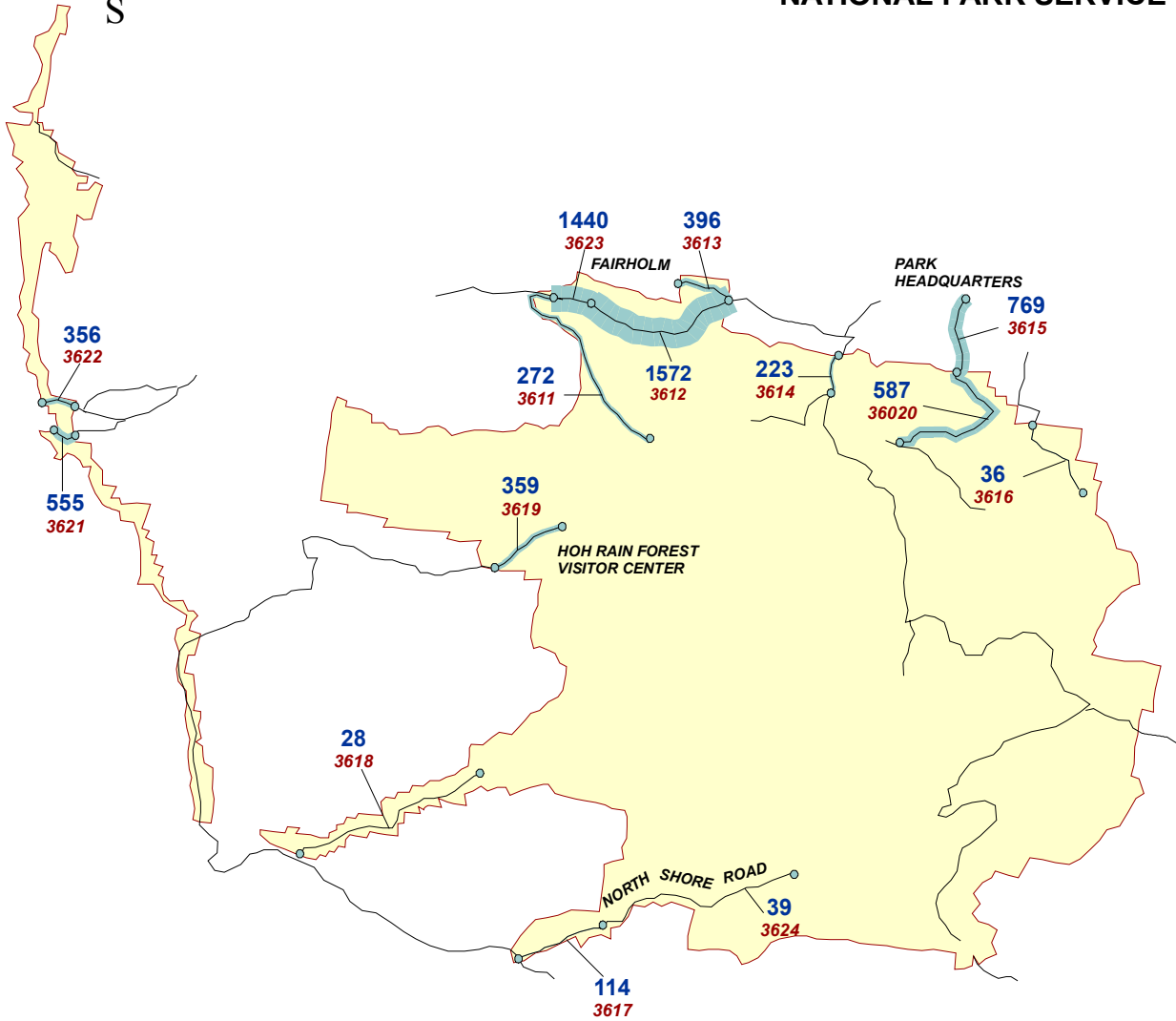
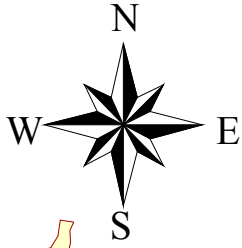
*Devices labeled
on this sheet
cannot be verified
in the field.*

Olympic National Park Traffic Package



Olympic National Park

Washington
U.S. Department of Interior
NATIONAL PARK SERVICE



OLYMPIC NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
1	Lake Crescent Hway. (U.S 101) - E.Park Bndry to N.Shore Rd.	3612	10.64	3931	3554	2232	1572	15266	13802	8668	6105
1	Lake Crescent Hway. (U.S 101) - N.Shore Rd. to W.Park Bndry	3623	1.31	2984	3399	2066	1440	1427	1625	988	689
10	Heart of Hills Rd. - Hurricane Lodge to Heart of Hills	36020	13.63	662	738	819	587	3293	3672	4074	2920
10	Heart of Hills Rd. - Heart of Hills to Race St- Pt. Angeles	3615	5.24	825	911	1082	769	1578	1742	2069	1471
100	Elwha Valley Rd. - Park Boundary to Lake Mills	3614	3.66	203	251	397	223	271	335	530	298
101	East Beach Rd. - East Park Boundary to North Park Boundary	3613	2.93	572	631	419	396	612	675	448	424
103	Soleduck Valley Rd. - U.S Hwy 101 to Soleduck	3611	13.89	312	410	496	272	1582	2079	2515	1379
104	Quinault Rd. - U.S Hwy 101 to Quinault Ranger Station	3617	5.43	297	309	345	114	589	612	684	226
104	Quinault Rd. - Quinault Ranger Station to End of Road	3624	11.98	64	53	58	39	280	232	254	171
106	Queets Valley Rd. - Park Boundary to Campground	3618	13.32	46	43	89	28	224	209	433	136
107	Hoh Rd. - West Park Boundary to Hoh Ranger Station	3619	6.26	439	517	692	359	1003	1181	1581	820
115	Rialto Beach Rd. - Park Boundary to Rialto Beach	3622	2.6	519	484	454	356	493	459	431	338
116	La Push Beach Rd. - Park Boundary to La Push Beach	3621	2	935	846	637	555	683	618	465	405
218	Deer Park Rd. - Park Boundary to Blue Mountain	3616	8.6	42	74	92	36	132	232	289	113
Note: AADT -- Annual Average Daily Traffic								27431	27474	23429	15494
VMT-- Vehicle Miles of Travel											

OLYMPIC NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
36020	Heart of Hills Rd. - Hurricane Lodge to Heart of Hills					941	587	Self
3611	Soleduck Valley Rd. - U.S Hwy 101 to Soleduck	7/24/2004	837	0.5208	0.3248	436	272	36020
3612	Lake Crescent Hwy. (U.S 101) - E.Park Bndry to N.Shore Rd.	7/24/2004	4840	0.5208	0.3248	2520	1572	36020
3613	East Beach Rd. - East Park Boundary to North Park Boundary	7/24/2004	1218	0.5208	0.3248	634	396	36020
3614	Elwha Valley Rd. - Park Boundary to Lake Mills	7/24/2004	686	0.5208	0.3248	357	223	36020
3615	Heart of Hills Rd. - Heart of Hills to Race St- Pt. Angeles	7/24/2004	2368	0.5208	0.3248	1233	769	36020
3616	Deer Park Rd. - Park Boundary to Blue Mountain	7/24/2004	112	0.5208	0.3248	58	36	36020
3617	Quinault Rd. - U.S Hwy 101 to Quinault Ranger Station	7/24/2004	351	0.5208	0.3248	183	114	36020
3618	Queets Valley Rd. - Park Boundary to Campground	7/24/2004	85	0.5208	0.3248	44	28	36020
3619	Hoh Rd. - West Park Boundary to Hoh Ranger Station	7/24/2004	1104	0.5208	0.3248	575	359	36020
3621	La Push Beach Rd. - Park Boundary to La Push Beach	7/24/2004	1710	0.5208	0.3248	890	555	36020
3622	Rialto Beach Rd. - Park Boundary to Rialto Beach	7/24/2004	1096	0.5208	0.3248	571	356	36020
3623	Lake Crescent Hwy. (U.S 101) - N.Shore Rd. to W.Park Bndry	7/24/2004	4435	0.5208	0.3248	2310	1440	36020
3624	Quinault Rd. - Quinault Ranger Station to End of Road	7/24/2004	120	0.5208	0.3248	62	39	36020

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.

OLYMPIC NATIONAL PARK

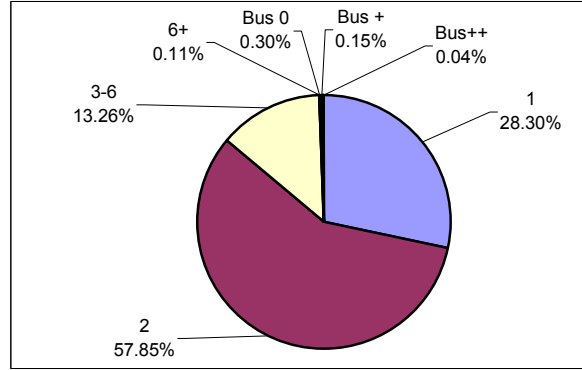
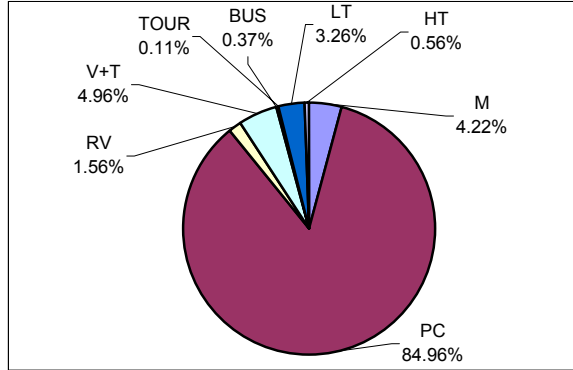
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

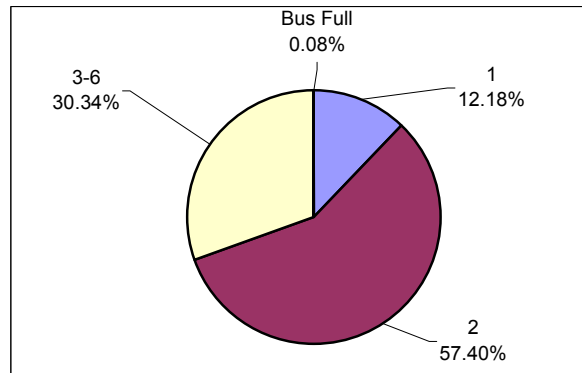
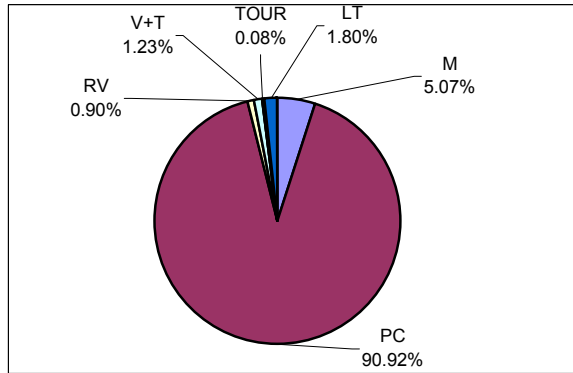
Location: STATION 3612

Location: STATION 3612



Location: STATION 36020

Location: STATION 36020



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

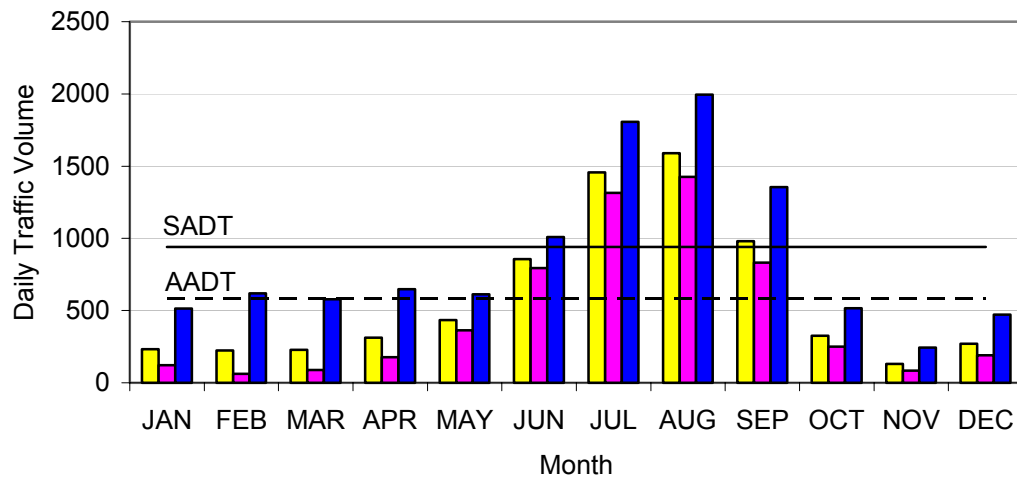
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

OLYMPIC NATIONAL PARK

Station: 36020 Heart of Hills Rd. - Hurricane Lodge to Heart of Hills

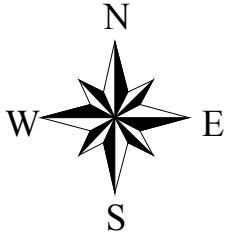
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2004	233	121	513	1.1441	1.8343
2	2004	223	63	621	0.9451	1.5153
3	2004	229	89	578	1.0154	1.6280
4	2004	312	177	648	0.9057	1.4522
5	2004	435	364	614	0.9559	1.5326
6	2004	857	795	1010	0.5811	0.9317
7	2004	1456	1315	1807	0.3248	0.5208
8	2003	1589	1426	1995	0.2942	0.4717
9	2003	982	832	1355	0.4331	0.6945
10	2003	326	251	516	1.1374	1.8236
11	2003	130	84	244	2.4054	3.8566
12	2003	271	190	472	1.2435	1.9936
Annual Average Daily Traffic (AADT)				587		
Annual Average Weekday Traffic (AAWDT)				476		
Annual Average Weekend Traffic (AAWET)				864		
Seasonal Average Daily Traffic (SADT)				941		

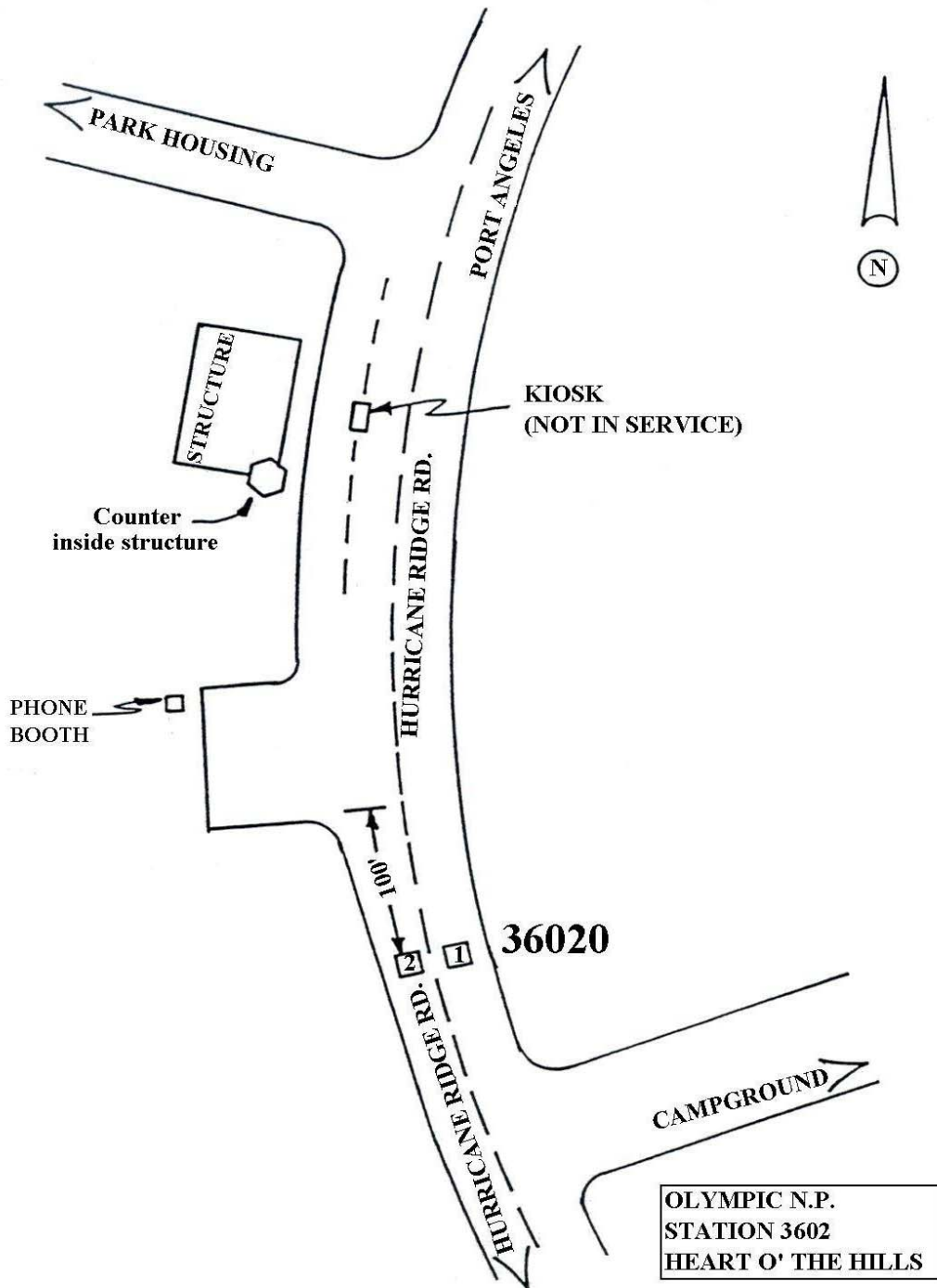


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

Olympic National Park

Washington
U.S. Department of Interior
NATIONAL PARK SERVICE





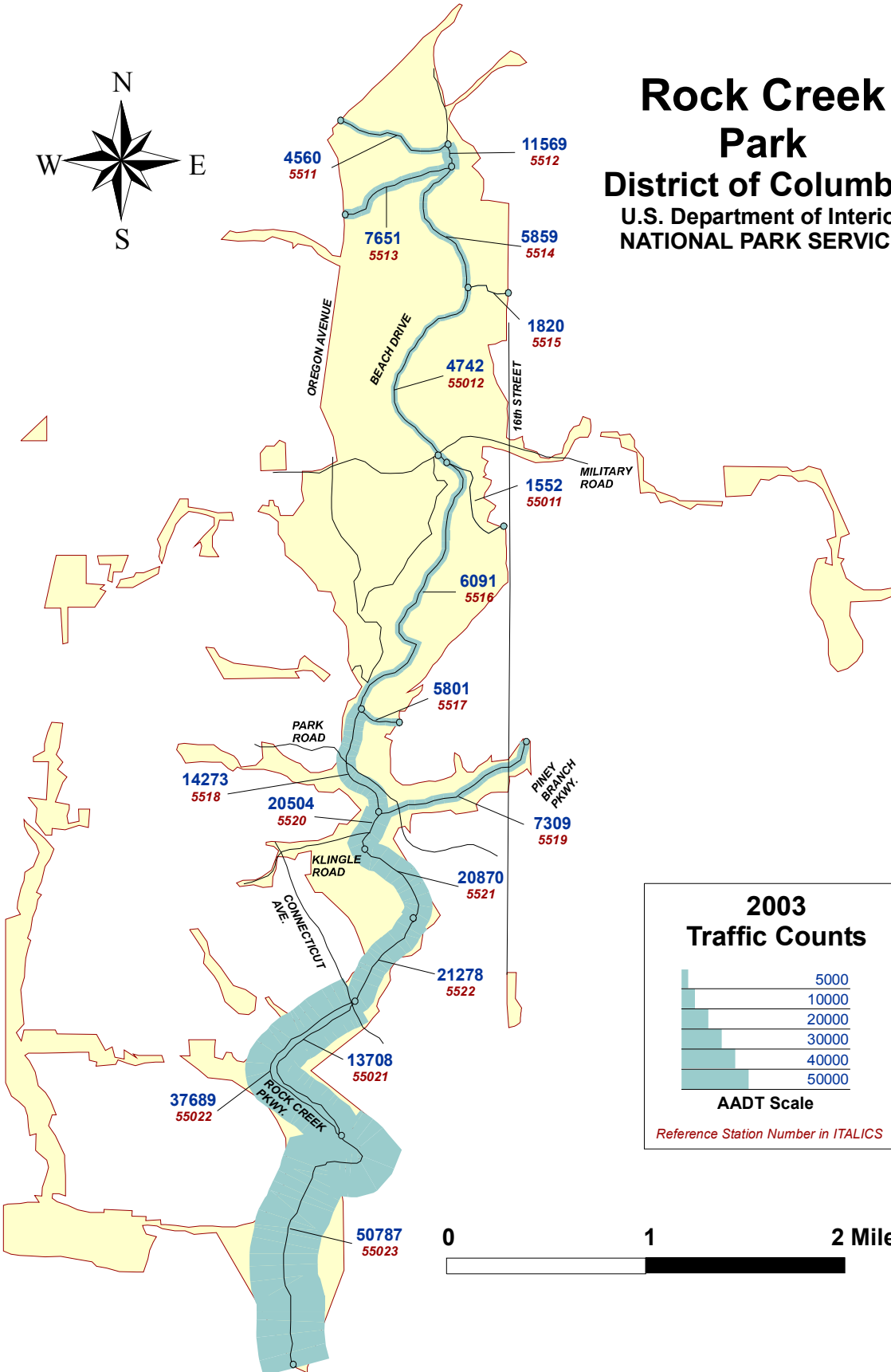
Rock Creek Park Traffic Package



Rock Creek Park

District of Columbia

U.S. Department of Interior
NATIONAL PARK SERVICE



ROCK CREEK PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta.		AADT				VMT(1000's)			
		ID.	Length	1988	1991	1994	2003	1988	1991	1994	2004
1&2	Rock Creek Pkwy- Virginia Ave. to So. Waterside Dr.	55023	1	55663	59972	60812	50787	20317	21890	22196	18537
1&2	Rock Creek Pkwy- So. Waterside Dr. to Cathedral Ave.	55022	1.05	39738	40316	40886	37689	15230	15451	15670	14444
10	Beach Drive - Cathedral Ave./ Connecticut Ave. to Harvard Street	5522	0.64	29892	25954	26317	21278	6983	6063	6148	4971
10	Beach Drive - Harvard Street to Porter Street/Klinge Rd.	5521	0.51	31004	25735	26095	20922	5771	4791	4858	3895
10	Beach Drive - Porter Street/Klinge Rd. to Piney Branch Pkwy	5520	0.19	24918	25284	25637	20555	1728	1753	1778	1425
10	Beach Drive - Piney Branch Pkwy to Glover Road	5518	0.89	13734	17600	17846	14309	4461	5717	5797	4648
10	Beach Drive - Glover Road to Joyce Road/ Military Road	5516	1.73	10373	7739	7325	6091	6550	4887	4625	3846
10	Beach Drive - Joyce Road/ Military Road to Sherrill Drive	55012	1.14	7021	6104	5929	4754	2921	2540	2467	1978
10	Beach Drive - Sherrill Drive to Wise Road	5514	0.7	10755	9911	7807	5859	2748	2532	1995	1497
10	Beach Drive - Wise Road to West Beach Drive	5512	0.11	16100	15151	14465	11598	646	608	581	466
10	Beach Drive - West Beach Drive to Park Boundary	5511	0.61	7645	6194	5325	4560	1702	1379	1186	1015
12	Wise Road - West Park Boundary to Beach Drive	5513	0.8	6430	6555	9566	7670	1878	1914	2793	2240
13	Sherrill Drive - Beach Drive to 16th Street NW	5515	0.33	3105	2119	2276	1825	374	255	274	220
17	Morrow Drive - Joyce Road to 16th Street NW	55011	0.61	1844	1566	3069	1552	411	349	683	346
22	Blagden Road - Beach Drive to Park Boundary	5517	0.14	6808	7598	7253	5815	348	388	371	297
24	Piney Branch Pkwy - Beach Drive to Arkansas Ave.	5519	0.84	10379	10239	9139	7327	3182	3139	2802	2246
510*	So. Waterside Drive - Rock Creek Parkway to Park Boundary	55021	0.38	15925	17432	15152	13708	2209	2418	2102	1901
Note: AADT -- Annual Average Daily Traffic								77459	76075	76325	63973
VMT-- Vehicle Miles of Travel											
* Mileage has been updated since 1994 report											

ROCK CREEK PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
55011	Morrow Drive - Joyce Road to 16th Street NW					1597	1552	Self
55012	Beach Drive - Joyce Road./ Military Road to Sherrill Drive						4754	*
55021	So. Waterside Drive - Rock Creek Parkway to Park Boundary					14001	13708	Self
55022	Rock Creek Pkwy- So. Waterside Dr. to Cathedral Ave.					38556	37689	Self
55023	Rock Creek Pkwy- Virginia Ave. to So. Waterside Dr.	10/7/03	54926**	0.9459	0.92464	51955	50787	55022
5511	Beach Drive - West Beach Drive to Park Boundary	5/14/03	6658**	0.7325	0.68483	4877	4560	55012
5512	Beach Drive - Wise Road to West Beach Drive						11598	*
5513	Wise Road - West Park Boundary to Beach Drive						7670	*
5514	Beach Drive - Sherrill Drive to Wise Road	5/14/03	8555**	0.7325	0.68483	6266	5859	55012
5515	Sherrill Drive - Beach Drive to 16th Street NW						1825	*
5516	Beach Drive - Glover Road to Joyce Road./ Military Road	5/14/03	6775**	0.9197	0.89899	6231	6091	55022
5517	Blagden Road - Beach Drive to Park Boundary						5815	*
5518	Beach Drive - Piney Branch Pkwy to Glover Road						14309	*
5519	Piney Branch Pkwy - Beach Drive to Arkansas Ave.						7327	*
5520	Beach Drive - Porter Street/Klingle Rd. to Piney Branch Pkwy						20555	*
5521	Beach Drive - Harvard Street to Porter Street/Klingle Rd.						20922	*
5522	Beach Drive - Cathedral Ave./ Connecticut Ave. to Harvard Street	10/7/03	23012**	0.9459	0.92464	21767	21278	55022
5523	Cathedral Ave. near Shoreham Dr.	10/7/03	6108**	0.9407	0.9210	5746	5626	55021

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.

* 1994 AADT was factored by park GF of 0.80

** Source: Traffic Data Report for Reconstruction and Rehabilitation Beach Drive and Rock Creek & Potomac Parkway. FHWA, November 2003

ROCK CREEK PARK

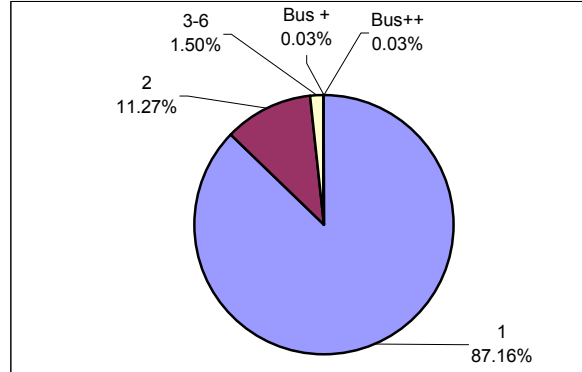
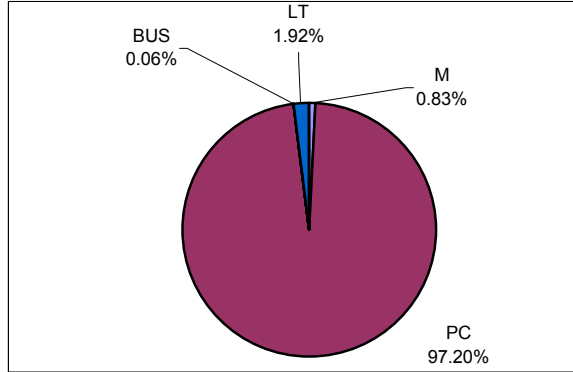
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

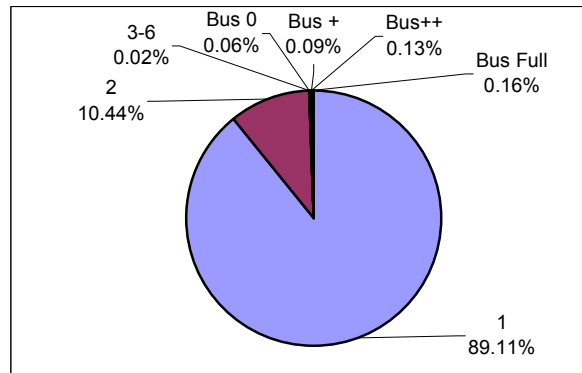
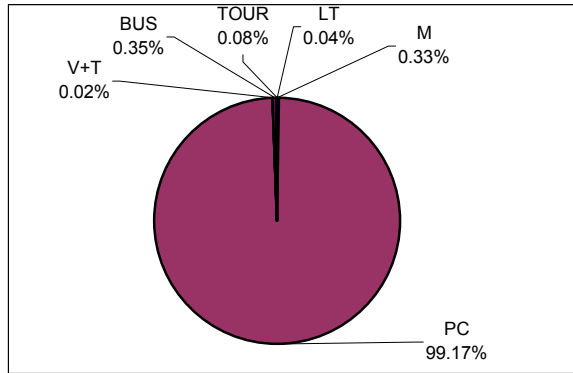
Location: STATION 55012

Location: STATION 55012



Location: STATION 55023

Location: STATION 55023



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

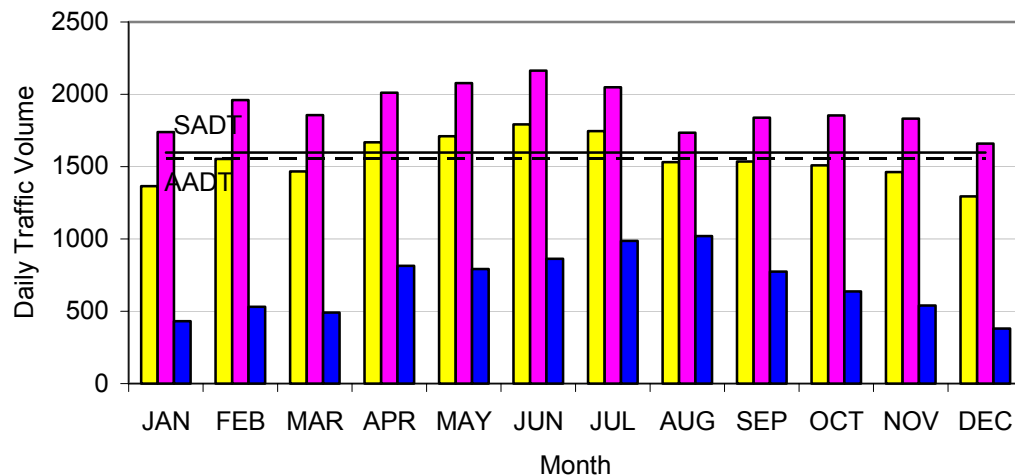
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus ++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

ROCK CREEK PARK

Station: 55011 Morrow Drive - Joyce Road to 16th Street NW

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	1365	1739	432	0.8927	0.9183
2	2002	1552	1960	532	0.7920	0.8148
3	2003	1466	1856	492	0.8364	0.8605
4	2003	1669	2010	815	0.7723	0.7945
5	2003	1710	2077	792	0.7474	0.7689
6	2003	1792	2164	863	0.7173	0.7380
7	2003	1745	2049	986	0.7576	0.7794
8	2003	1530	1734	1020	0.8952	0.9210
9	2003	1535	1839	774	0.8441	0.8684
10	2003	1508	1855	638	0.8368	0.8609
11	2003	1462	1831	540	0.8478	0.8722
12	2002	1294	1659	381	0.9357	0.9626
Annual Average Daily Traffic (AADT)				1552		
Annual Average Weekday Traffic (AAWDT)				1898		
Annual Average Weekend Traffic (AAWET)				689		
Seasonal Average Daily Traffic (SADT)				1597		



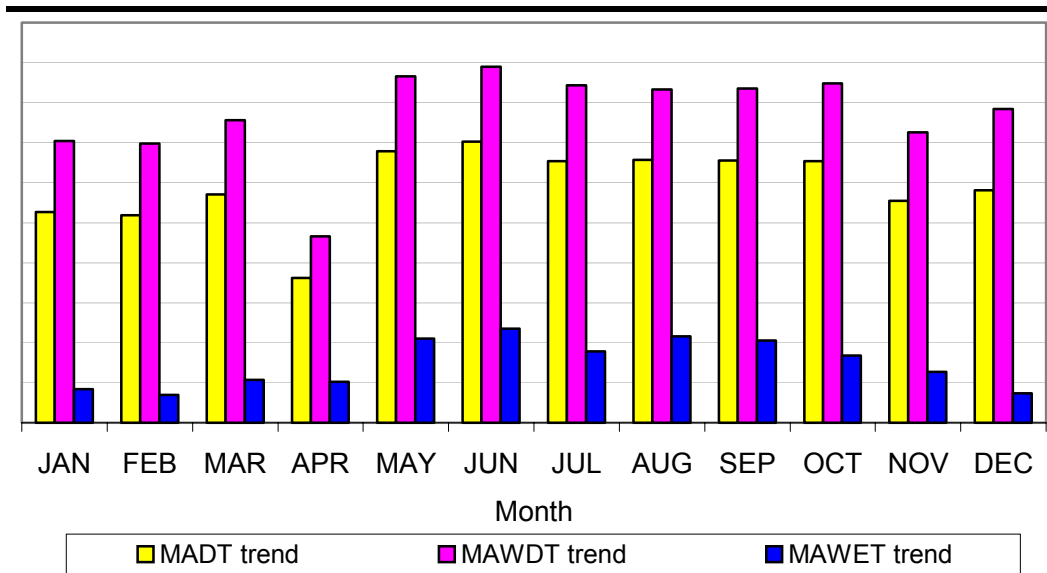
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

ROCK CREEK PARK

Station: 55012 Beach Drive - Joyce Road./ Military Road to Sherrill Drive

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	0.8421	0.9007
2	1993-1994	0.8492	0.9083
3	1993-1994	0.7841	0.8386
4	1993-1994	1.2720	1.3604
5	1993-1994	0.6848	0.7325
6	1993-1994	0.6667	0.7130
7	1993-1994	0.7029	0.7517
8	1993-1994	0.7115	0.7610
9	1993-1994	0.7096	0.7589
10	1993-1994	0.6993	0.7479
11	1993-1994	0.8165	0.8733
12	1993-1994	0.7563	0.8089

See Section 2.1.5

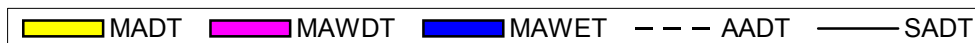
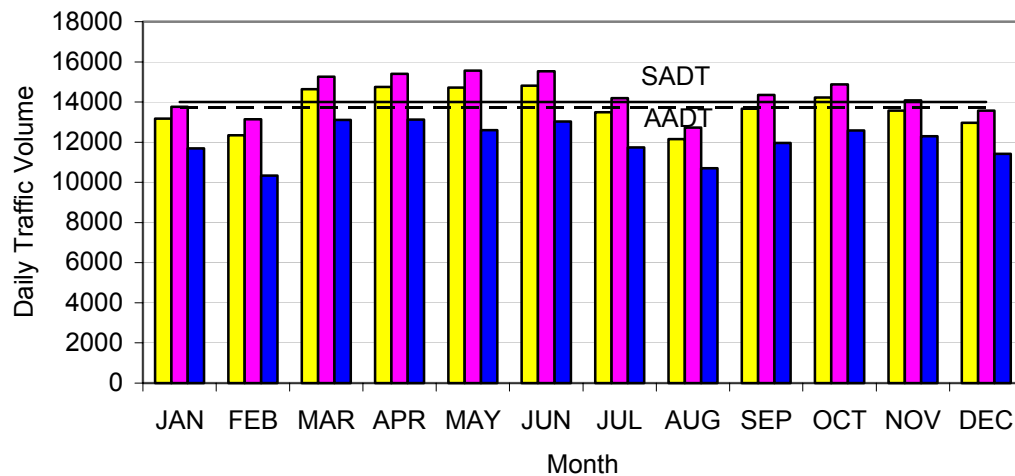


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
SADTF is used to adjust coverage traffic volumes to SADT volume.
SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

ROCK CREEK PARK

Station: 55021 So. Waterside Drive - Rock Creek Parkway to Park Boundary

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	13169	13761	11689	0.9962	1.0174
2	2003	12345	13145	10345	1.0429	1.0651
3	2003	14643	15254	13114	0.8987	0.9179
4	2003	14750	15400	13125	0.8902	0.9092
5	2003	14715	15562	12598	0.8809	0.8997
6	2003	14817	15532	13029	0.8826	0.9014
7	2003	13486	14186	11735	0.9663	0.9870
8	2003	12149	12727	10701	1.0771	1.1001
9	2003	13668	14353	11958	0.9551	0.9755
10	2003	14227	14884	12583	0.9210	0.9407
11	2003	13572	14081	12297	0.9735	0.9943
12	2003	12959	13571	11428	1.0101	1.0317
Annual Average Daily Traffic (AADT)				13708		
Annual Average Weekday Traffic (AAWDT)				14371		
Annual Average Weekend Traffic (AAWET)				12050		
Seasonal Average Daily Traffic (SADT)				14001		

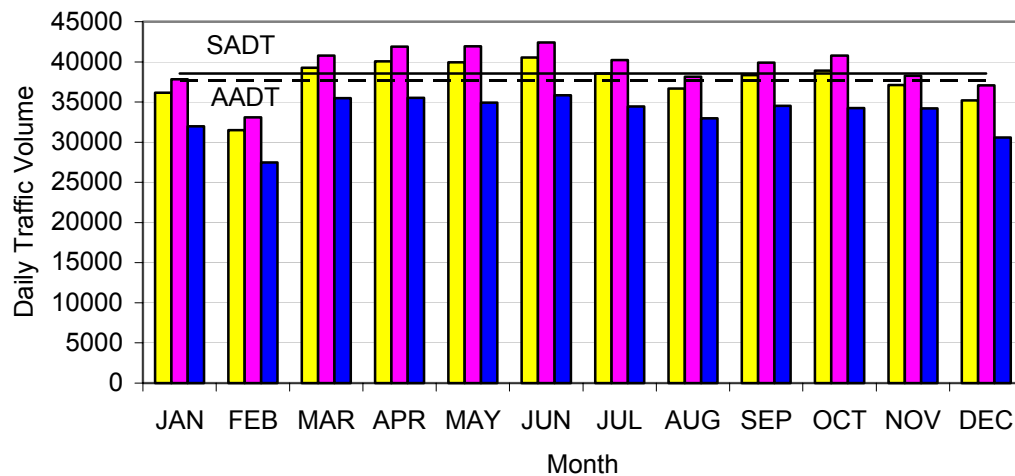


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

ROCK CREEK PARK

Station: 55022 Rock Creek Pkwy- So. Waterside Dr. to Cathedral Ave./Connecticut

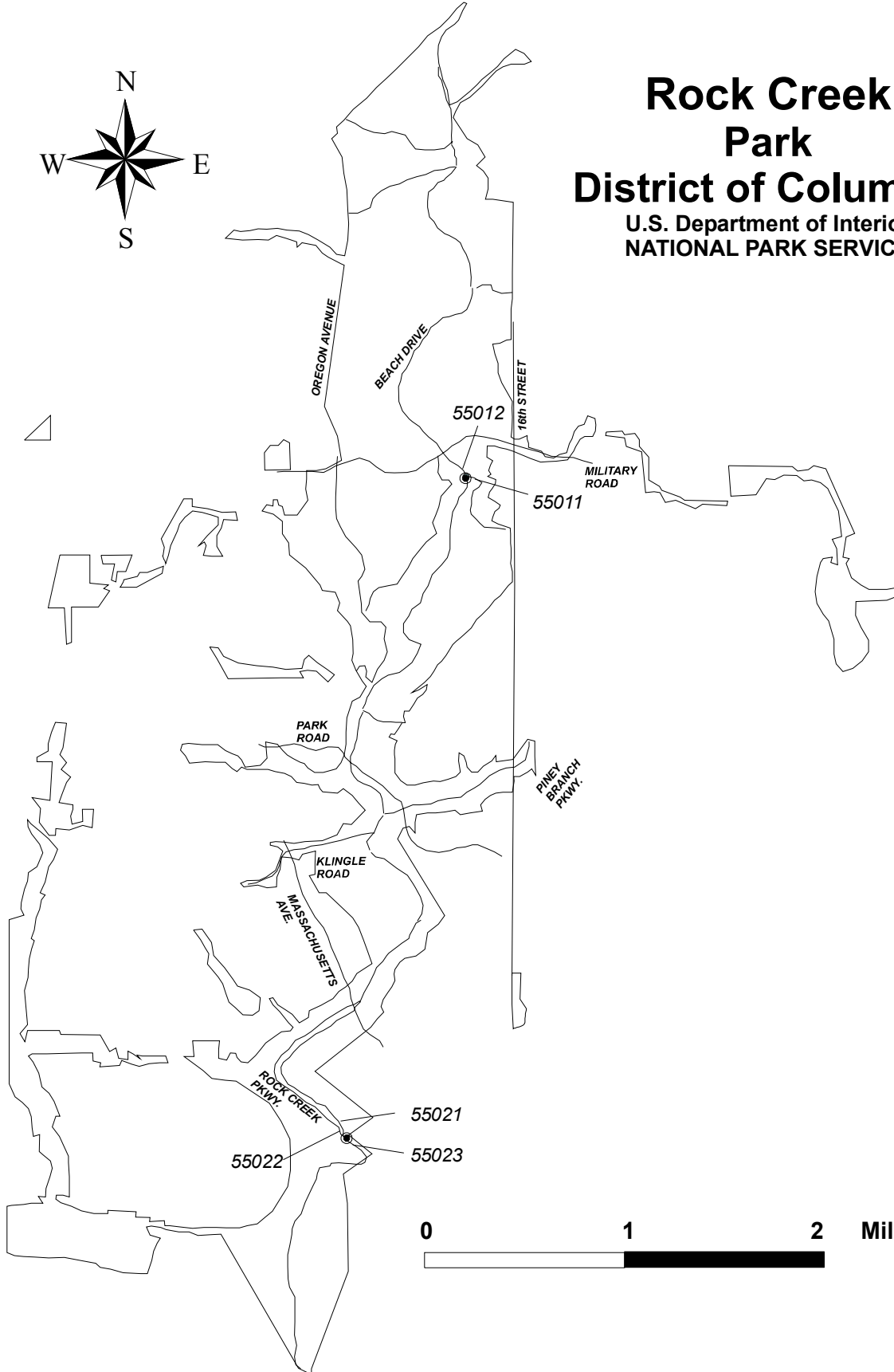
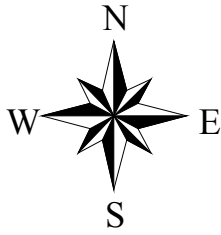
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	36153	37818	31991	0.9966	1.0195
2	2003	31485	33082	27492	1.1393	1.1655
3	2003	39252	40759	35483	0.9247	0.9460
4	2003	40078	41900	35524	0.8995	0.9202
5	2003	39925	41924	34928	0.8990	0.9197
6	2003	40548	42426	35854	0.8883	0.9088
7	2003	38567	40215	34447	0.9372	0.9587
8	2003	36664	38134	32990	0.9883	1.0111
9	2003	38355	39887	34527	0.9449	0.9666
10	2003	38896	40761	34236	0.9246	0.9459
11	2003	37123	38286	34217	0.9844	1.0071
12	2003	35223	37072	30602	1.0166	1.0400
Annual Average Daily Traffic (AADT)				37689		
Annual Average Weekday Traffic (AAWDT)				39355		
Annual Average Weekend Traffic (AAWET)				33524		
Seasonal Average Daily Traffic (SADT)				38556		

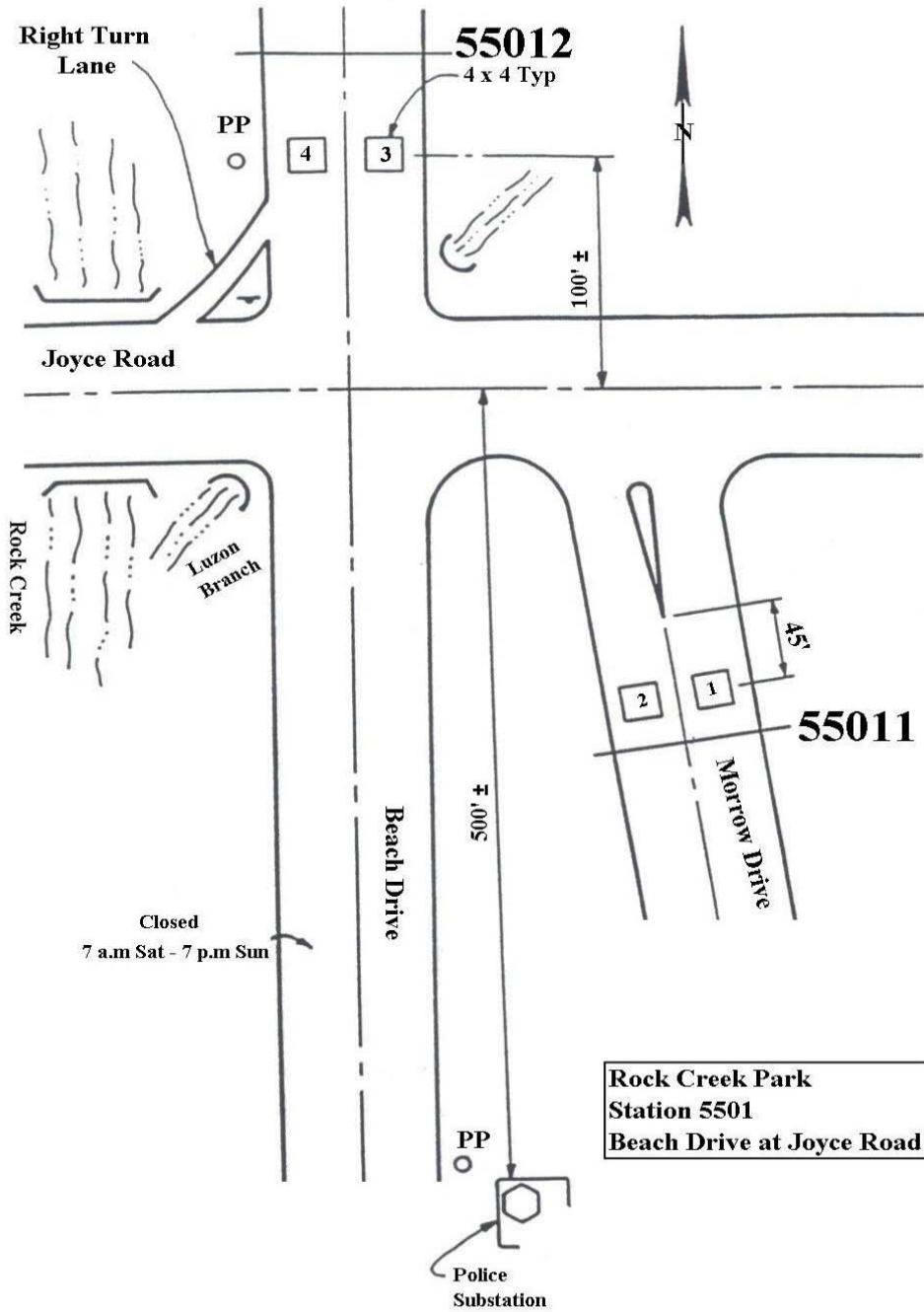


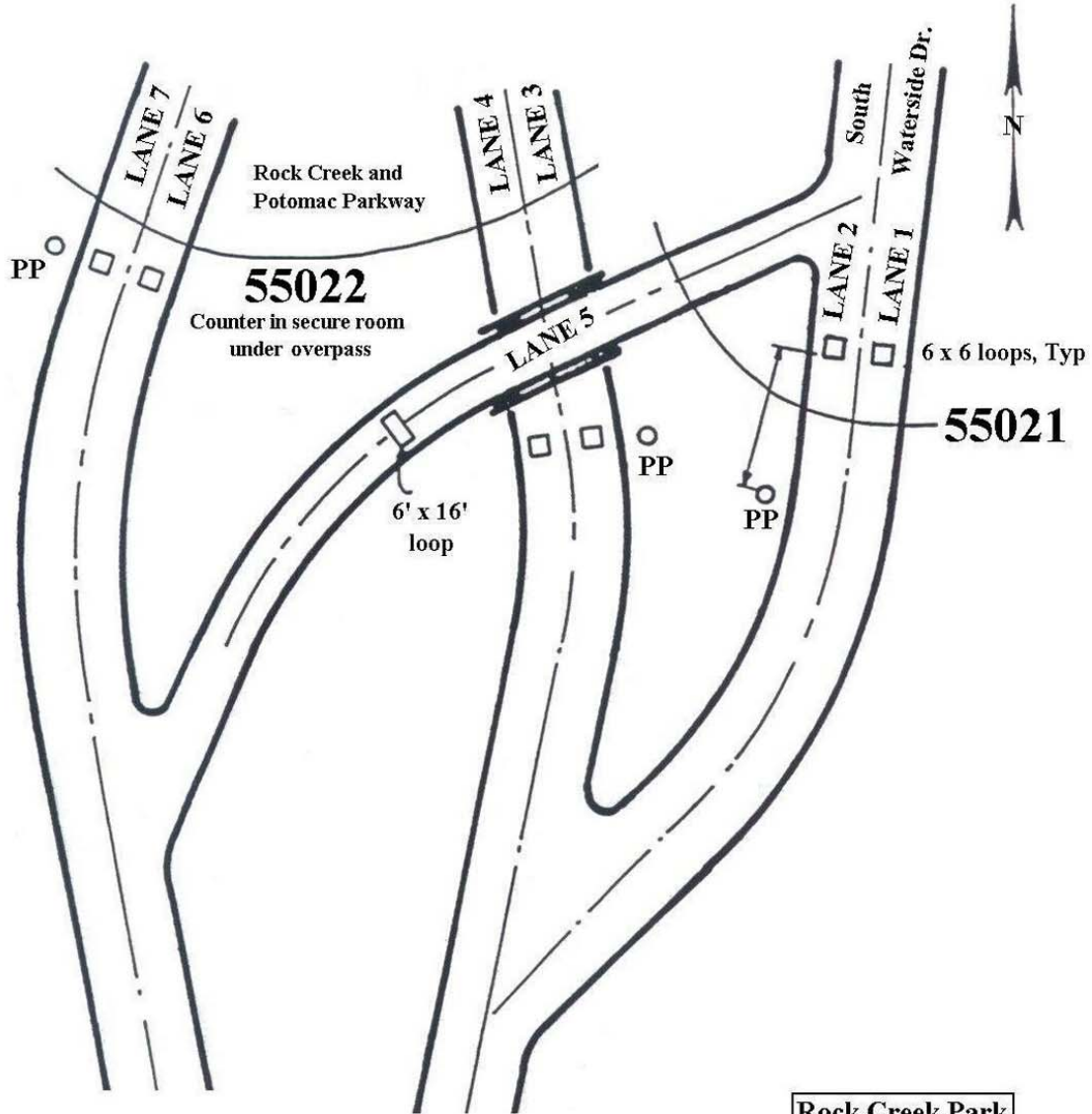
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

Rock Creek Park District of Columbia

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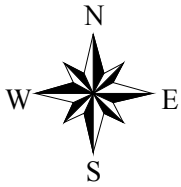




Rock Creek Park
Station 5502
Waterside Drive

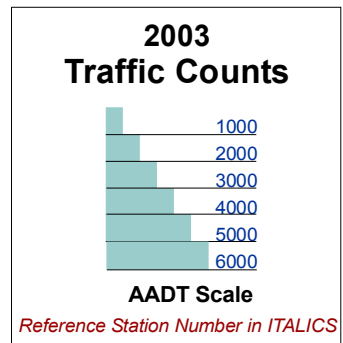
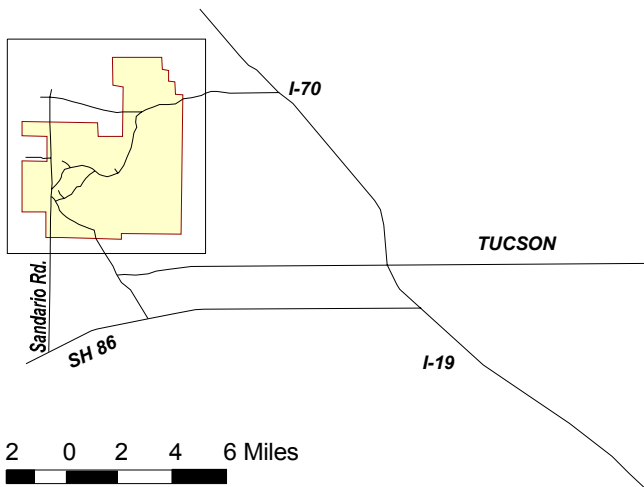
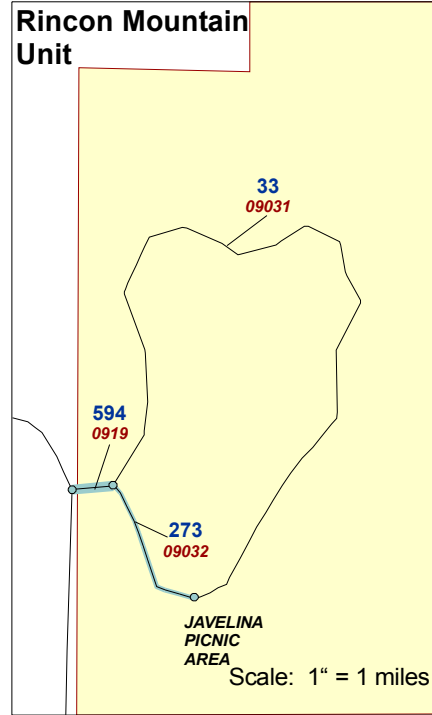
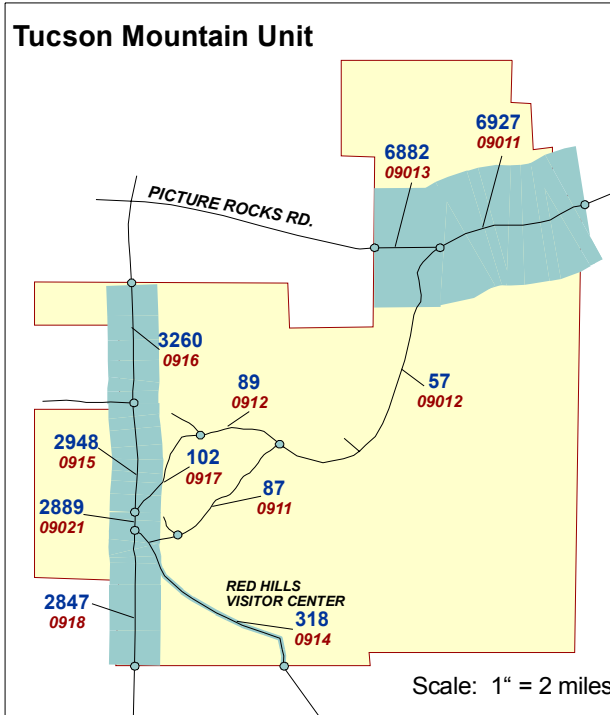
Saguaro National Park Traffic Package





Saguaro National Park

Arizona
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NATIONAL PARK SERVICE



SAGUARO NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	East Unit Entrance Rd. - Park Boundary to Cactus Forest Dr.	919	0.18	620	631	446	594	41	41	29	39
11	Picture Rocks Rd. - West Boundary to Golden Gate Rd.	9013	0.28	2933	3630	4977	6882	300	371	509	703
11	Picture Rocks Rd. - Golden Gate Rd. to East Boundary	9011	1.07	2942	3677	4959	6927	1149	1436	1937	2705
12	Kinney Rd. - South Boundary to Sandario Rd.	914	2.74	400	266	249	318	400	266	249	318
13	Sandario Rd. - South Boundary to Kinney Rd.	918	1.81	880	1302	1848	2847	581	860	1221	1881
13	Sandario Rd. - Kinney Rd. to Golden Gate Rd.	9021	0.13	1082	1395	1748	2889	51	66	83	137
13	Sandario Rd. - Golden Gate Rd. to Manville Rd.	915	1.16	1369	1154	1992	2948	580	489	843	1248
13	Sandario Rd. - Manville Rd. to North Boundary	916	1.43	1930	1466	2215	3260	1007	765	1156	1702
100	Picnic Rd. - South End to North End of Cactus Forest Dr.	9032	1.76	209	213	233	273	134	137	150	175
101	Golden Gate Rd. - Sandario Rd. to Signal Hill Picnic Rd.	917	1.45	74	78	76	102	39	41	40	54
101	Golden Gate Rd. - Signal Hill Picnic Rd. to Who-Ka-Kam Rd.	912	0.99	107	113	69	89	39	41	25	32
101	Golden Gate Rd. - Who-Ka-Kam Rd. to Picture Rocks Rd.	9012	3.77	69	112	122	57	95	154	168	78
102	Who-Ka-Kam Rd. - Kinney Rd. to Golden Gate Rd.	911	2.32	74	43	48	87	63	36	41	74
500	Cactus Forest Dr. - East Unit Entrance Rd. to Picnic Rd.	9031	6.84	139	136	159	33	347	340	397	82
VMT SUMMARY								4826	5044	6847	9229

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

SAGUARO NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
9011	Picture Rocks Rd. - Golden Gate Rd. to East Boundary					6930	6927	Self
9013	Picture Rocks Rd. - West Boundary to Golden Gate Rd.					6892	6882	Self
9021	Sandario Rd. - Kinney Rd. to Golden Gate Rd.					2976	2889	Self
9031	Cactus Forest Dr. - East Unit Entrance Rd. to Picnic Rd.					42	33	Self
9032	Picnic Rd. - South End to North End of Cactus Forest Dr.					306	273	Self
9012	Golden Gate Rd. - Who-Ka-Kam Rd. to Picture Rocks Rd.	5/6/2003	45	1.4299	1.2749	64	57	9032
911	Who-Ka-Kam Rd. - Kinney Rd. to Golden Gate Rd.	5/6/2003	68	1.4299	1.2749	97	87	9032
912	Golden Gate Rd. - Signal Hill Picnic Rd. to Who-Ka-Kam Rd.	5/6/2003	70	1.4299	1.2749	100	89	9032
914	Kinney Rd. - South Boundary to Sandario Rd.	5/6/2003	344	0.9514	0.9236	327	318	9021
915	Sandario Rd. - Golden Gate Rd. to Manville Rd.	5/6/2003	3192	0.9514	0.9236	3037	2948	9021
916	Sandario Rd. - Manville Rd. to North Boundary	5/6/2003	3530	0.9514	0.9236	3358	3260	9021
917	Golden Gate Rd. - Sandario Rd. to Signal Hill Picnic Rd.	5/6/2003	80	1.4299	1.2749	114	102	9032
918	Sandario Rd. - South Boundary to Kinney Rd.	5/6/2003	3082	0.9514	0.9236	2932	2847	9021
919	East Unit Entrance Rd. - Park Boundary to Cactus Forest Dr.	5/6/2003	466	1.4299	1.2749	666	594	9032

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.

SAGUARO NATIONAL PARK

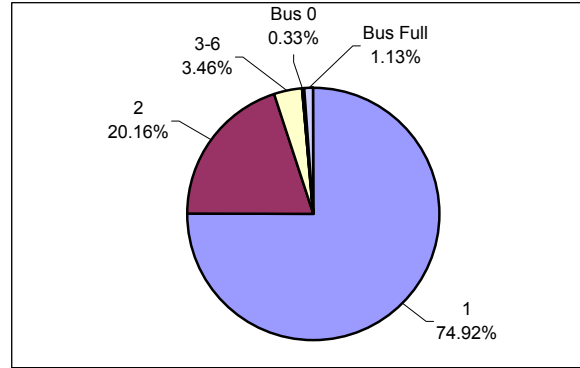
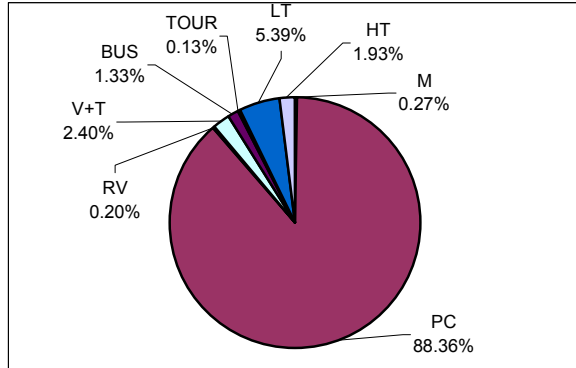
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

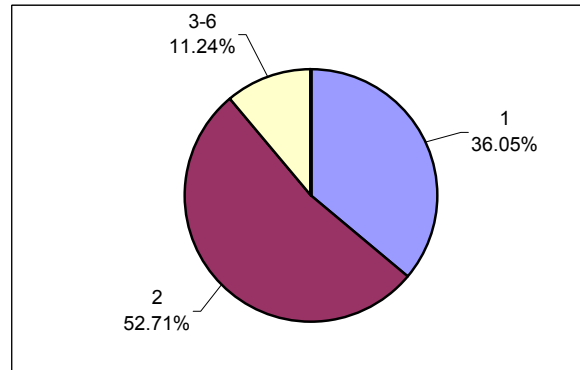
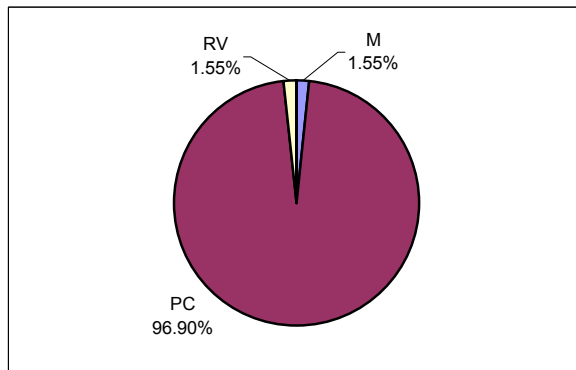
Location: STATION 916

Location: STATION 916



Location: STATION 919

Location: STATION 919



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

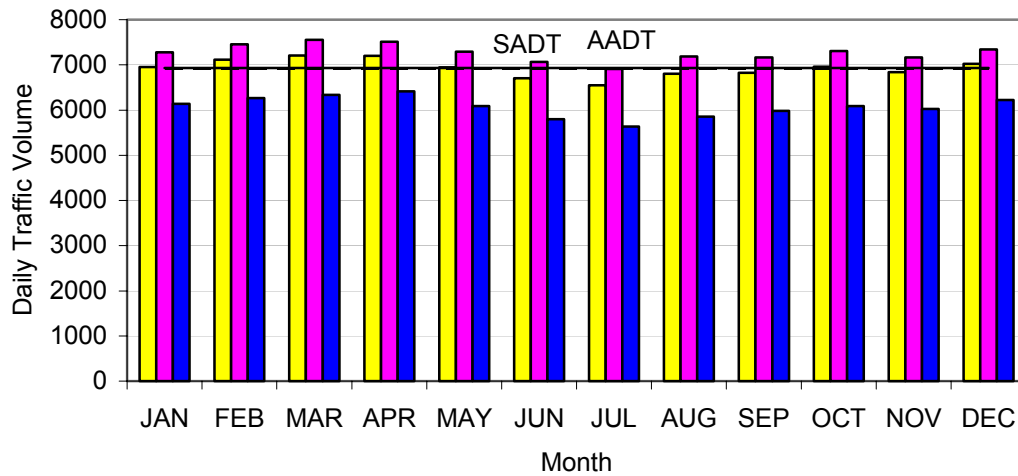
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

SAGUARO NATIONAL PARK

Station: 9011 Picture Rocks Rd. - Golden Gate Rd. to East Boundary

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	6953	7278	6140	0.9517	0.9522
2	2003	7113	7453	6265	0.9294	0.9298
3	2003	7208	7556	6337	0.9167	0.9172
4	2003	7197	7511	6412	0.9222	0.9226
5	2003	6947	7289	6092	0.9503	0.9507
6	2002	6706	7068	5801	0.9800	0.9805
7	2002	6546	6911	5633	1.0023	1.0027
8	2002	6804	7185	5853	0.9641	0.9645
9	2002	6825	7162	5982	0.9672	0.9676
10	2002	6958	7307	6088	0.9480	0.9484
11	2002	6840	7164	6028	0.9669	0.9673
12	2002	7025	7345	6223	0.9431	0.9435
Annual Average Daily Traffic (AADT)				6927		
Annual Average Weekday Traffic (AAWDT)				7269		
Annual Average Weekend Traffic (AAWET)				6071		
Seasonal Average Daily Traffic (SADT)				6930		

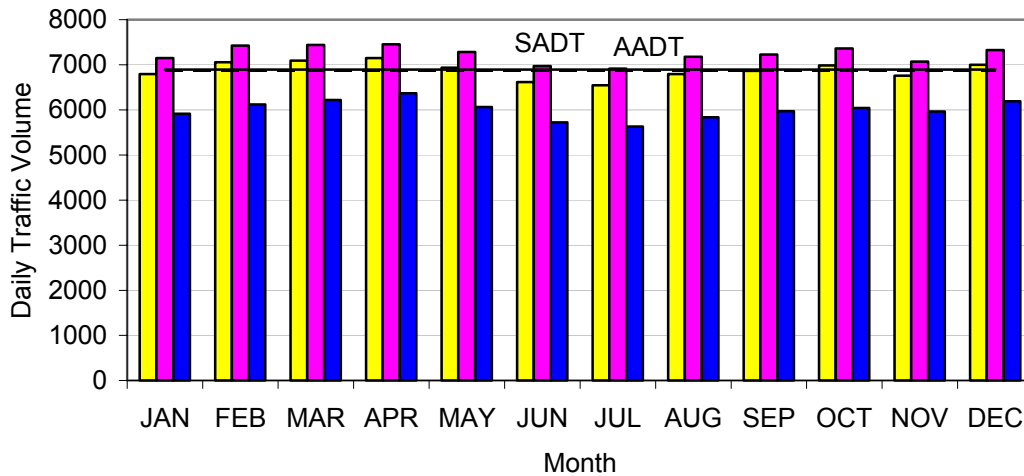


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SAGUARO NATIONAL PARK

Station: 9013 Picture Rocks Rd. - West Boundary to Golden Gate Rd.

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	6797	7150	5913	0.9626	0.9639
2	2003	7055	7429	6119	0.9264	0.9277
3	2003	7089	7438	6217	0.9253	0.9266
4	2003	7147	7457	6370	0.9229	0.9242
5	2003	6934	7281	6067	0.9452	0.9466
6	2002	6616	6974	5721	0.9869	0.9882
7	2002	6546	6913	5629	0.9956	0.9970
8	2002	6795	7179	5835	0.9587	0.9600
9	2002	6868	7228	5969	0.9522	0.9535
10	2002	6986	7364	6041	0.9346	0.9359
11	2002	6756	7074	5962	0.9729	0.9743
12	2002	6999	7324	6188	0.9397	0.9410
Annual Average Daily Traffic (AADT)				6882		
Annual Average Weekday Traffic (AAWDT)				7234		
Annual Average Weekend Traffic (AAWET)				6003		
Seasonal Average Daily Traffic (SADT)				6892		

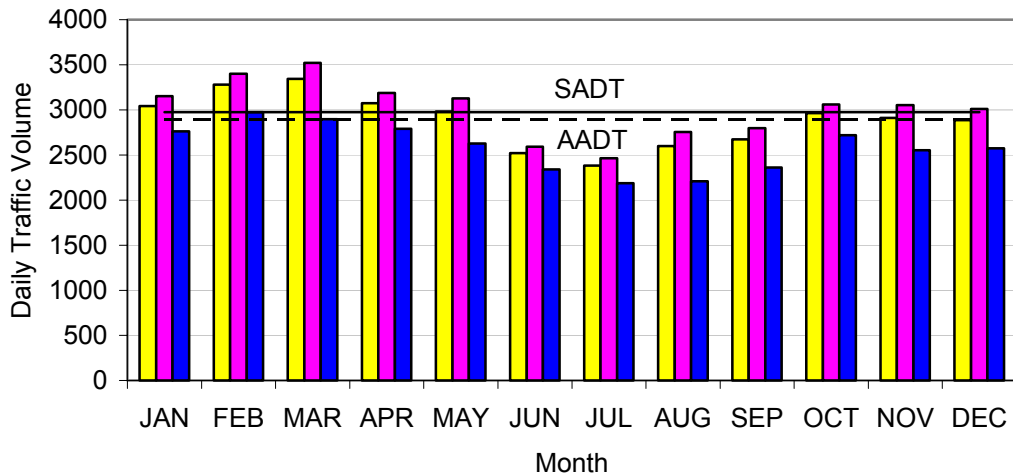


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SAGUARO NATIONAL PARK

Station: 9021 Sandario Rd. - Kinney Rd. to Golden Gate Rd.

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	3042	3153	2764	0.9163	0.9439
2	2003	3279	3400	2976	0.8497	0.8753
3	2003	3343	3522	2896	0.8203	0.8450
4	2003	3075	3188	2792	0.9062	0.9335
5	2003	2984	3128	2626	0.9236	0.9514
6	2002	2521	2593	2342	1.1142	1.1477
7	2002	2384	2464	2187	1.1725	1.2078
8	2002	2600	2756	2210	1.0483	1.0798
9	2002	2673	2797	2362	1.0329	1.0640
10	2002	2963	3060	2721	0.9441	0.9725
11	2002	2911	3054	2553	0.9460	0.9745
12	2002	2887	3012	2576	0.9592	0.9880
Annual Average Daily Traffic (AADT)				2889		
Annual Average Weekday Traffic (AAWDT)				3011		
Annual Average Weekend Traffic (AAWET)				2584		
Seasonal Average Daily Traffic (SADT)				2976		

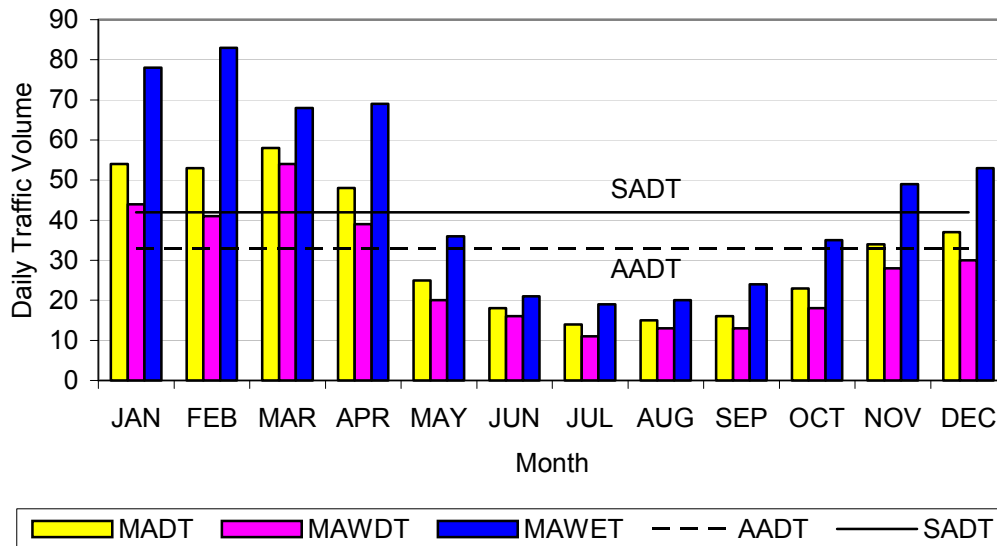


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
SADTF is used to adjust coverage traffic volumes to SADT volume.
SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SAGUARO NATIONAL PARK

Station: 9031 Cactus Forest Dr. - East Unit Entrance Rd. to Picnic Rd.

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	54	44	78	0.7481	0.9545
2	2003	53	41	83	0.8028	1.0244
3	2003	58	54	68	0.6096	0.7778
4	2003	48	39	69	0.8440	1.0769
5	2003	25	20	36	1.6458	2.1000
6	2002	18	16	21	2.0573	2.6250
7	2002	14	11	19	2.9924	3.8182
8	2002	15	13	20	2.5321	3.2308
9	2002	16	13	24	2.5321	3.2308
10	2002	23	18	35	1.8287	2.3333
11	2002	34	28	49	1.1756	1.5000
12	2002	37	30	53	1.0972	1.4000
Annual Average Daily Traffic (AADT)				33		
Annual Average Weekday Traffic (AAWDT)				27		
Annual Average Weekend Traffic (AAWET)				46		
Seasonal Average Daily Traffic (SADT)				42		

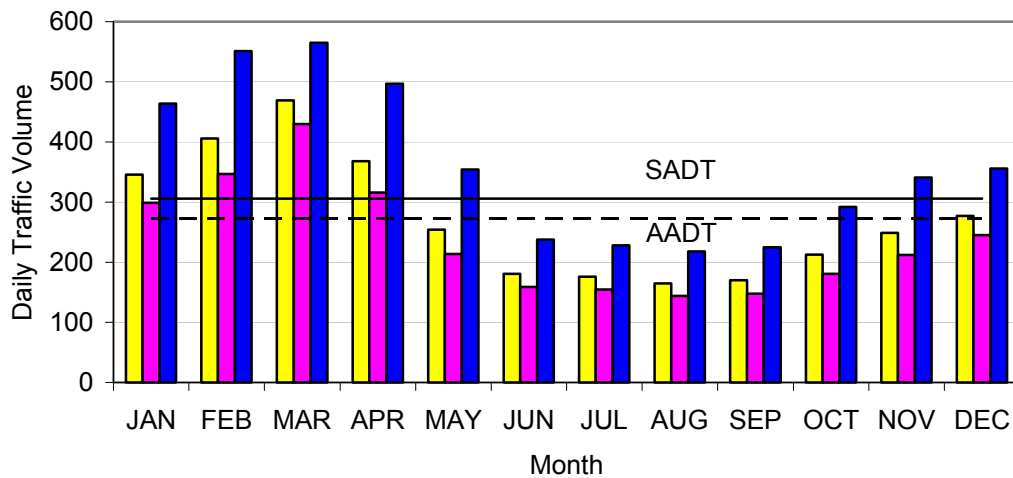


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SAGUARO NATIONAL PARK

Station: 9032 Picnic Rd. - South End to North End of Cactus Forest Dr.

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	346	299	464	0.9125	1.0234
2	2003	406	347	551	0.7863	0.8818
3	2003	469	430	565	0.6345	0.7116
4	2003	368	316	497	0.8634	0.9684
5	2003	254	214	354	1.2749	1.4299
6	2002	181	159	238	1.7159	1.9245
7	2002	176	155	228	1.7602	1.9742
8	2002	165	144	218	1.8947	2.1250
9	2002	170	148	225	1.8435	2.0676
10	2002	213	181	292	1.5074	1.6906
11	2002	249	212	341	1.2869	1.4434
12	2002	277	245	356	1.1136	1.2490
Annual Average Daily Traffic (AADT)						273
Annual Average Weekday Traffic (AAWDT)						238
Annual Average Weekend Traffic (AAWET)						361
Seasonal Average Daily Traffic (SADT)						306

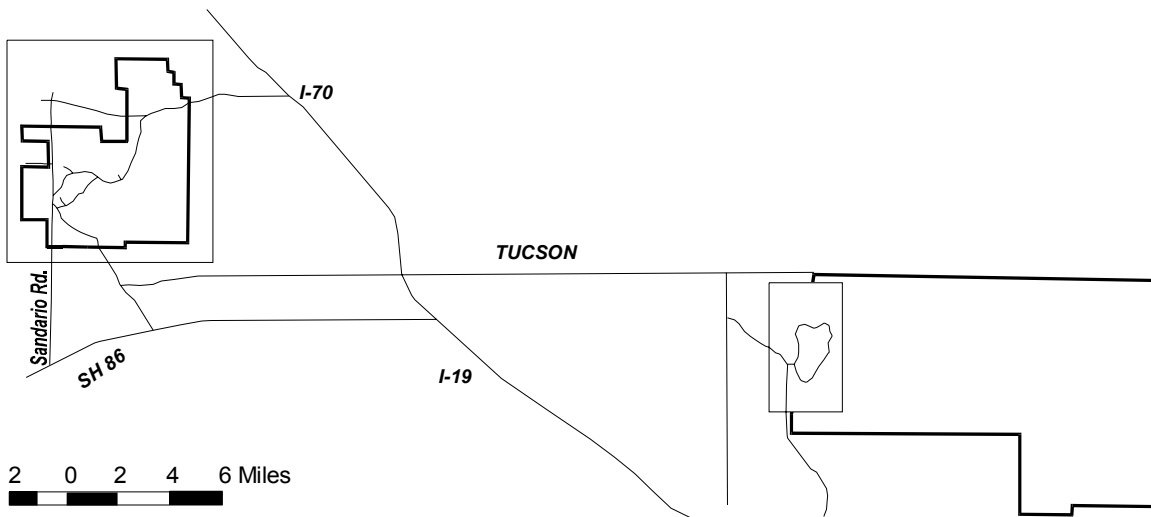
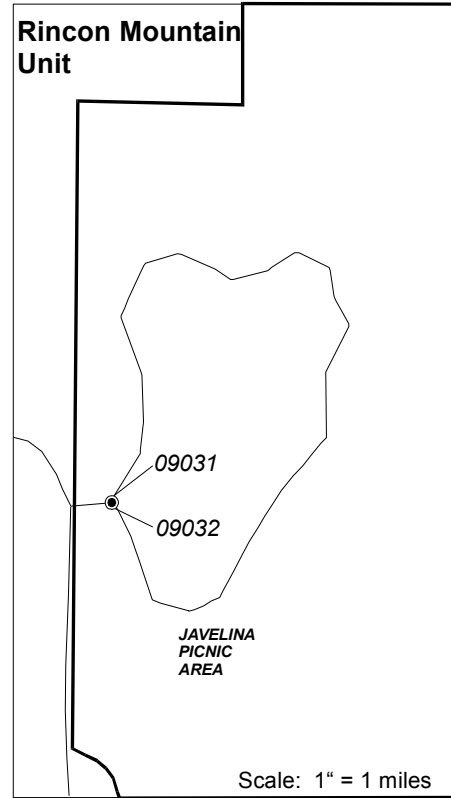
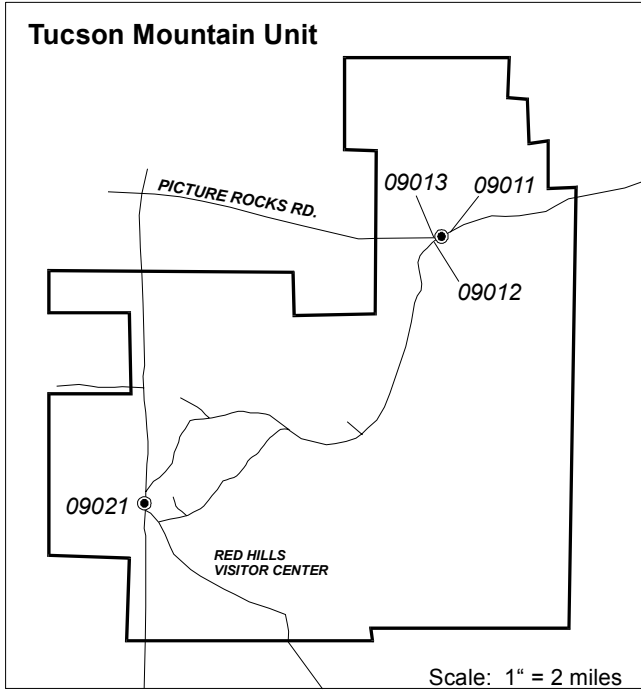


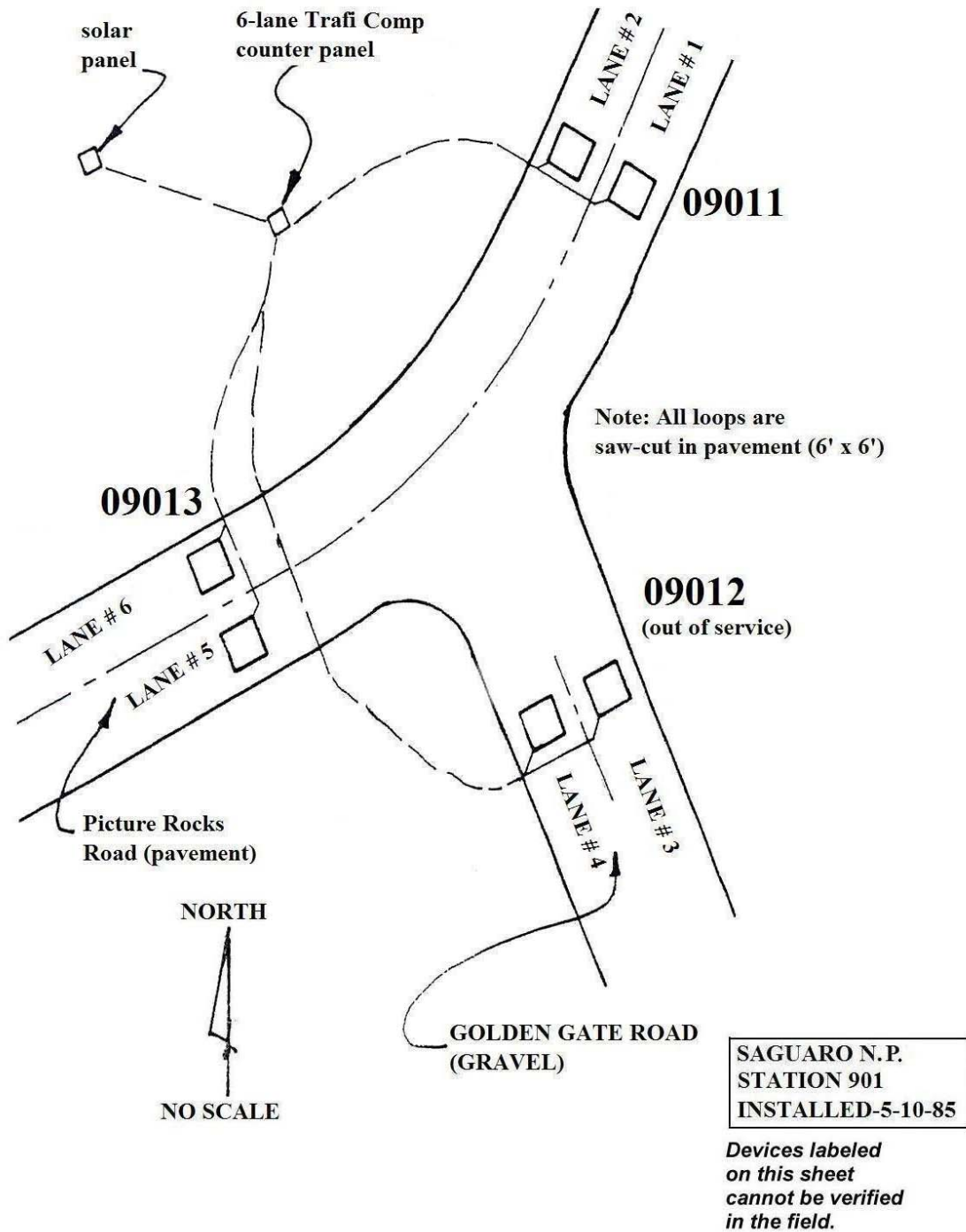
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

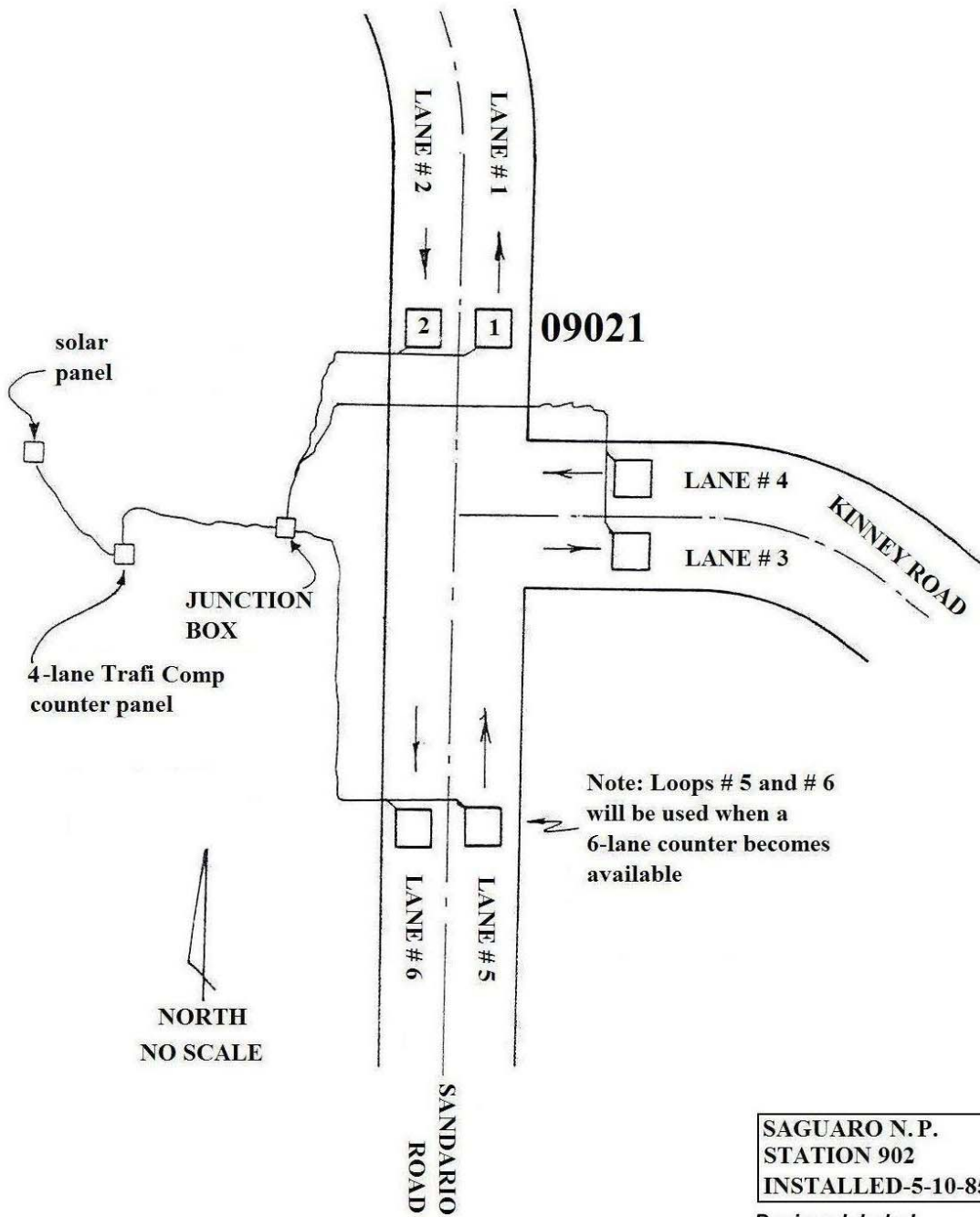


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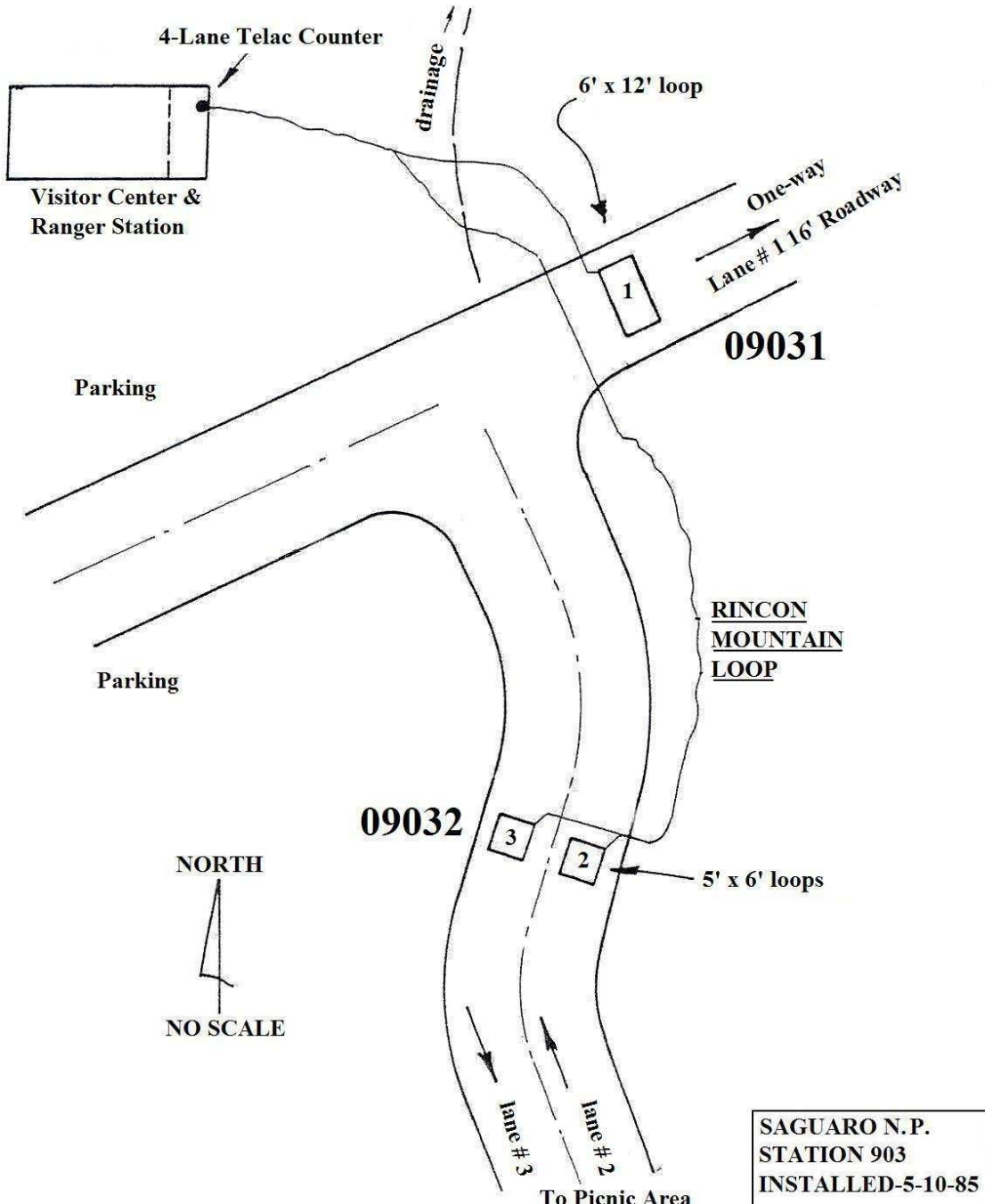






SAGUARO N. P.
STATION 902
INSTALLED-5-10-85

*Devices labeled
on this sheet
cannot be verified
in the field.*



SAGUARO N.P.
STATION 903
INSTALLED-5-10-85

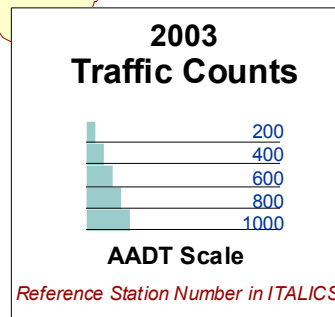
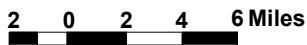
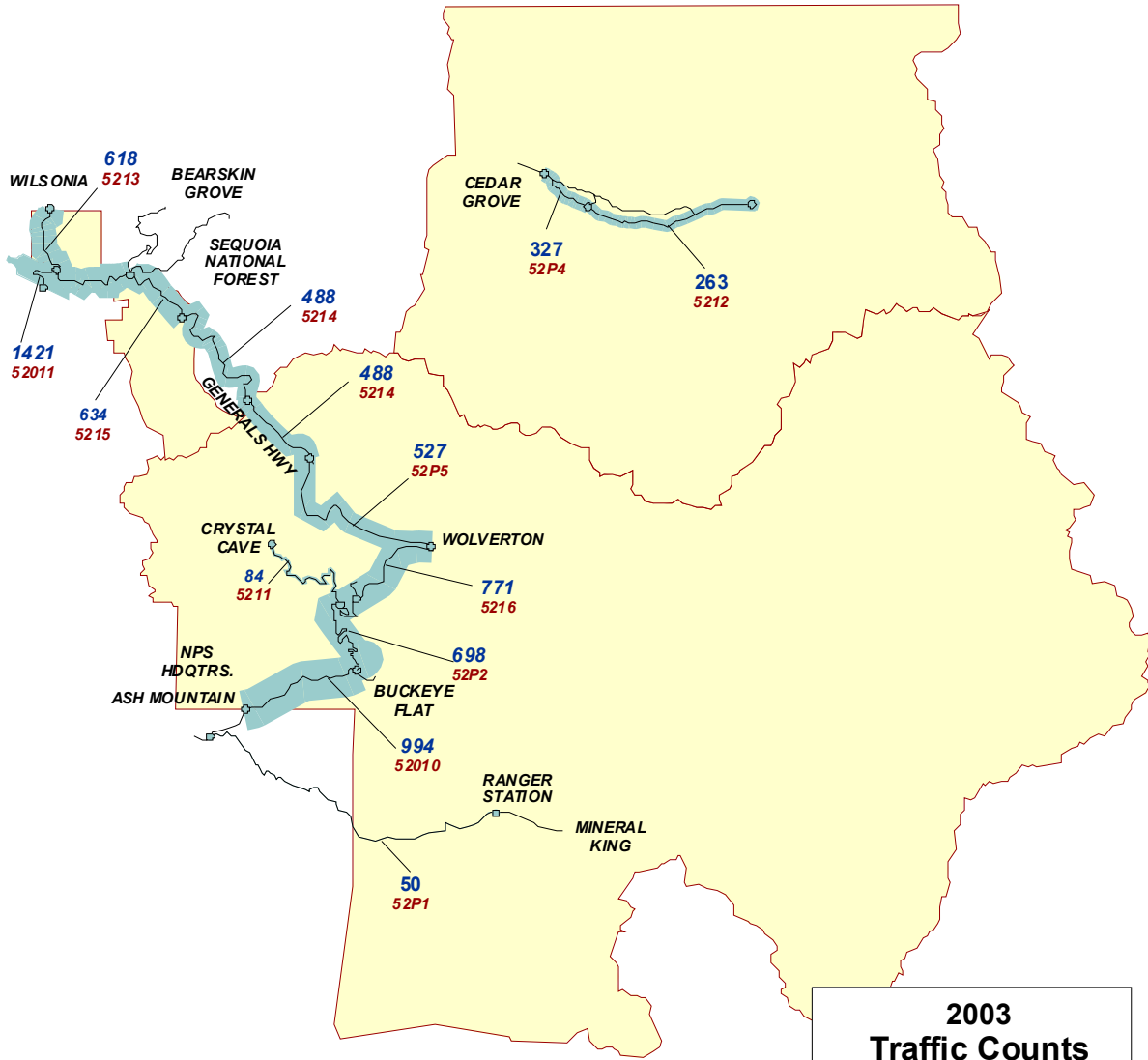
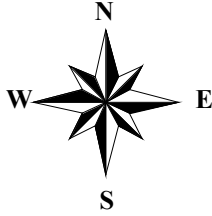
*Devices labeled
on this sheet
cannot be verified
in the field.*

Sequoia/Kings Canyon National Park Traffic Package



Sequoia/Kings Canyon National Park

California
U.S. Department of Interior
NATIONAL PARK SERVICE



SEQUOIA/KINGS CANYON NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	Generals Hwy. - Ash Mountain Entrance to Buckeye Flat Road	52010	6.36	970	1010	977	994	2252	2345	2268	2307
10	Generals Hwy. - Buckeye Flat Road to Crystal Cave Rd.	52P2	8.25	400	797	955	698	1205	2400	2876	2102
10	Generals Hwy. - Crystal Cave Rd. to Lodgepole Rd.	5216	6.61	1248	1166	1115	771	3011	2813	2690	1860
10	Generals Hwy. - Lodgepole Rd. to Dorst Campground Rd.	52P5	8.07	424	822	835	527	1249	2421	2460	1552
10	Generals Hwy - Dorst Campground Rd. to No. Sequoia NP Bdry.	5214	3.34	628	711	644	488	766	867	785	595
10	Generals Hwy - So. Kings Canyon NP Bdry. To Grant Grove Rd.	5215	4.56	601	846	881	634	1000	1408	1466	1055
11	Cedar Grove Access Rd. - West Bdry. To Motor Nature Trail	52P4	3.02	168	406	388	327	185	448	428	360
11	Cedar Grove Access Rd. - Motor Nature Trail to End of Road	5212	5.27	291	343	251	263	560	660	483	506
13	Mineral King Rd. - West Park Bdry. To Mineral King	52P1	15.29	14	30	104	50	78	167	580	279
15	Grant Grove Rd. - South Entrance to Generals Hwy.	52011*	1.88	478	1240	1310	1421	328	851	899	975
15	Grant Grove Rd. - Generals Hwy. To North Park Bdry.	5213	2.77	447	967	694	618	452	978	702	625
100	Crystal Cave Rd. - Generals Hwy. To Crystal Cave	5211	6.48	753	216	153	84	1781	511	362	199
10	Generals Hwy. - N. Sequoia NP Bdry. To Kings Canyon NP Bdry	5214	8.57	628	711	644	488	1964	2224	2014	1526
VMT SUMMARY								12579	15747	15745	11635

Note: AADT -- Annual Average Daily Traffic

VMT-- Vehicle Miles of Travel

* 52011 is a new ATR station installed in 2003. Limited data from this site was used as a coverage data source

SEQUOIA/KINGS CANYON NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
52010	Generals Hwy. - Ash Mountain Entrance to Buckeye Flat Road					1201	994	Self
52011*	Grant Grove Rd. - South Entrance to Generals Hwy.	6/25/03	1816	0.9457	0.7824	1717	1421	52010
5211	Crystal Cave Rd. - Generals Hwy. To Crystal Cave	6/4/03	107	0.9457	0.7824	101	84	52010
5212	Cedar Grove Access Rd. - Motor Nature Trail to End of Road	6/4/03	336	0.9457	0.7824	318	263	52010
5213	Grant Grove Rd. - Generals Hwy. To North Park Bdry.	6/4/03	790	0.9457	0.7824	747	618	52010
5214	Generals Hwy - Dorst Campground Rd. to No. Sequoia NP Bdry.	6/4/03	624	0.9457	0.7824	590	488	52010
5214	Generals Hwy. - N. Sequoia NP Bdry. To Kings Canyon NP Bdry	6/4/03	624	0.9457	0.7824	590	488	52010
5215	Generals Hwy - So. Kings Canyon NP Bdry. To Grant Grove Rd.	6/4/03	810	0.9457	0.7824	766	634	52010
5216	Generals Hwy. - Crystal Cave Rd. to Lodgepole Rd.	6/4/03	986	0.9457	0.7824	932	771	52010
52P1	Mineral King Rd. - West Park Bdry. To Mineral King	6/4/03	64	0.9457	0.7824	61	50	52010
52P2	Generals Hwy. - Buckeye Flat Road to Crystal Cave Rd.	6/4/03	892	0.9457	0.7824	844	698	52010
52P4	Cedar Grove Access Rd. - West Bdry. To Motor Nature Trail	6/4/03	418	0.9457	0.7824	395	327	52010
52P5	Generals Hwy. - Lodgepole Rd. to Dorst Campground Rd.	6/4/03	674	0.9457	0.7824	637	527	52010

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.
 * 52011 is a new ATR station installed in 2003. Limited data from this site was used as a coverage data source

SEQUOIA/KINGS CANYON NATIONAL PARK

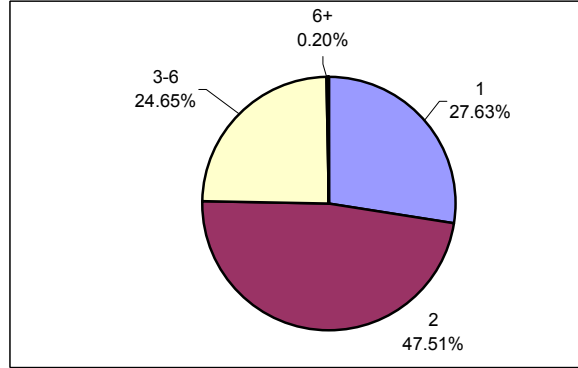
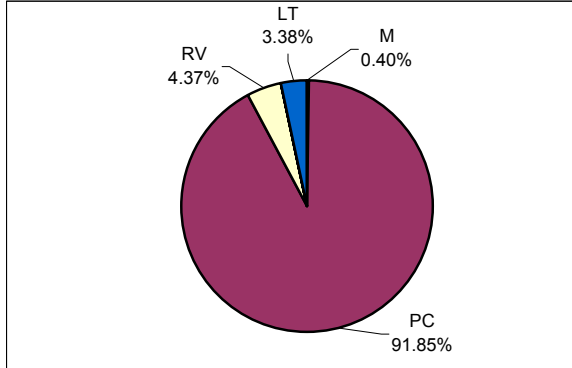
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

Location: STATION 52P2

Location: STATION 52P2



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

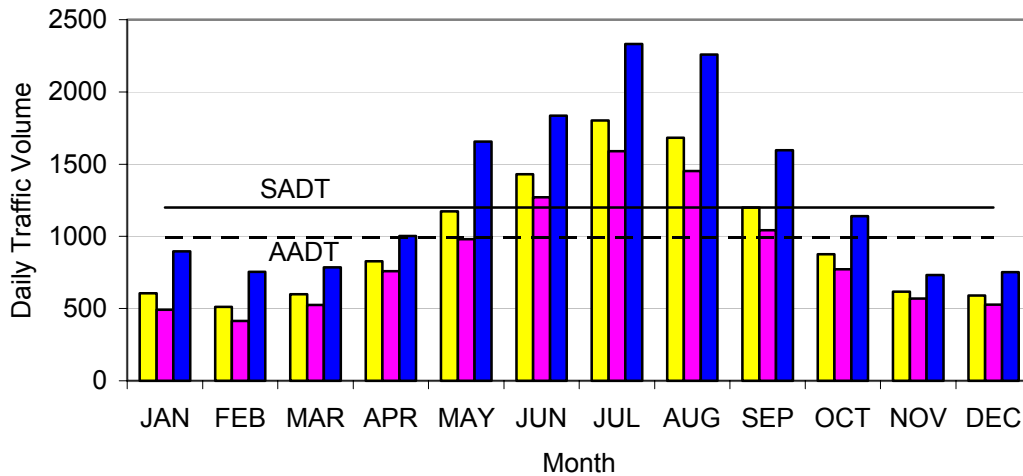
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

SEQUOIA/KINGS CANYON NATIONAL PARK

Station: 52010 Generals Hwy. - Ash Mountain Entrance to Buckeye Flat Road

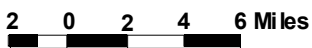
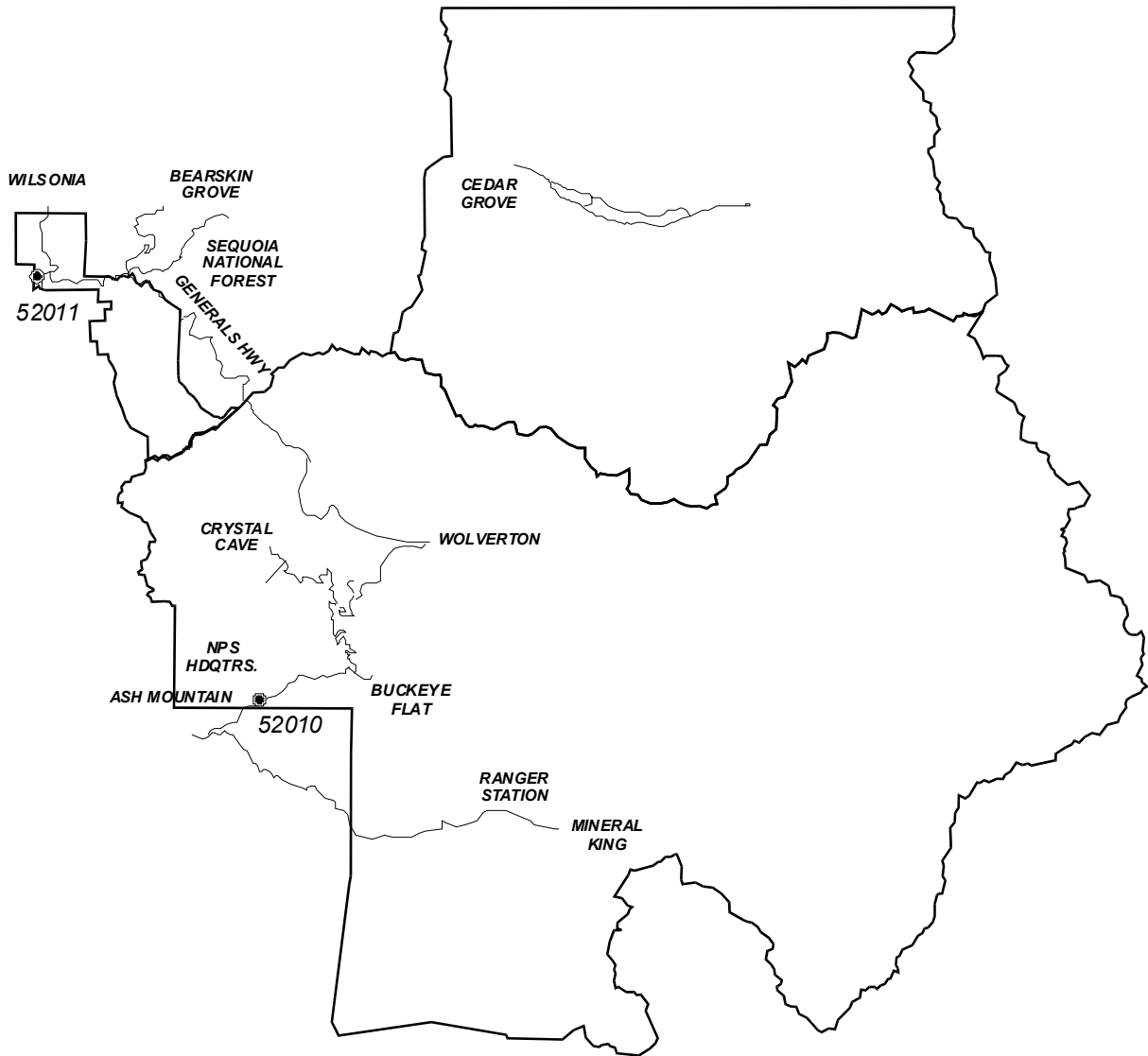
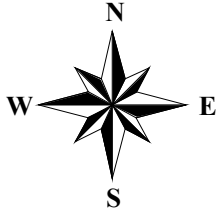
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2003	607	492	896	2.0196	2.4411
2	2003	511	413	754	2.4060	2.9080
3	2003	599	525	786	1.8927	2.2876
4	2003	829	759	1003	1.3092	1.5823
5	2003	1174	981	1657	1.0129	1.2243
6	2003	1431	1270	1835	0.7824	0.9457
7	2002	1803	1591	2332	0.6246	0.7549
8	2002	1684	1453	2259	0.6839	0.8266
9	2002	1201	1043	1596	0.9527	1.1515
10	2002	877	772	1140	1.2871	1.5557
11	2002	617	570	734	1.7433	2.1070
12	2002	591	526	753	1.8891	2.2833
Annual Average Daily Traffic (AADT)				994		
Annual Average Weekday Traffic (AAWDT)				866		
Annual Average Weekend Traffic (AAWET)				1312		
Seasonal Average Daily Traffic (SADT)				1201		

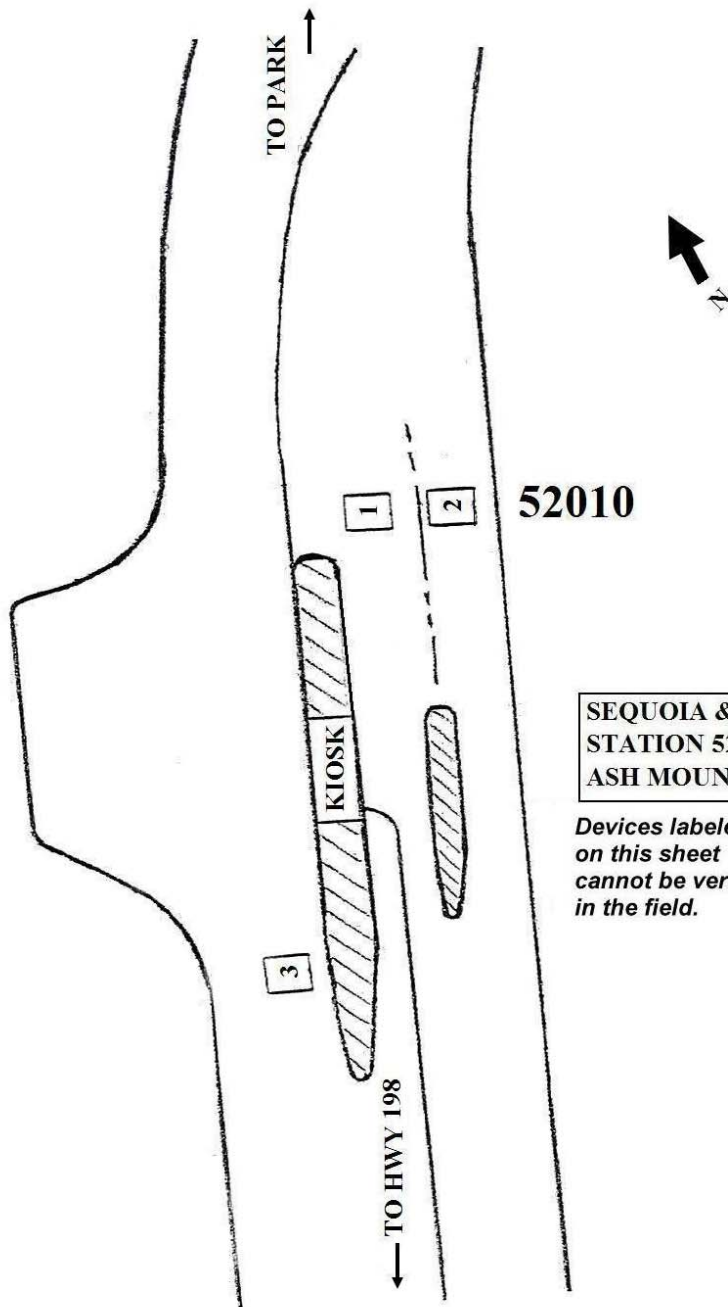


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

Sequoia/Kings Canyon National Park

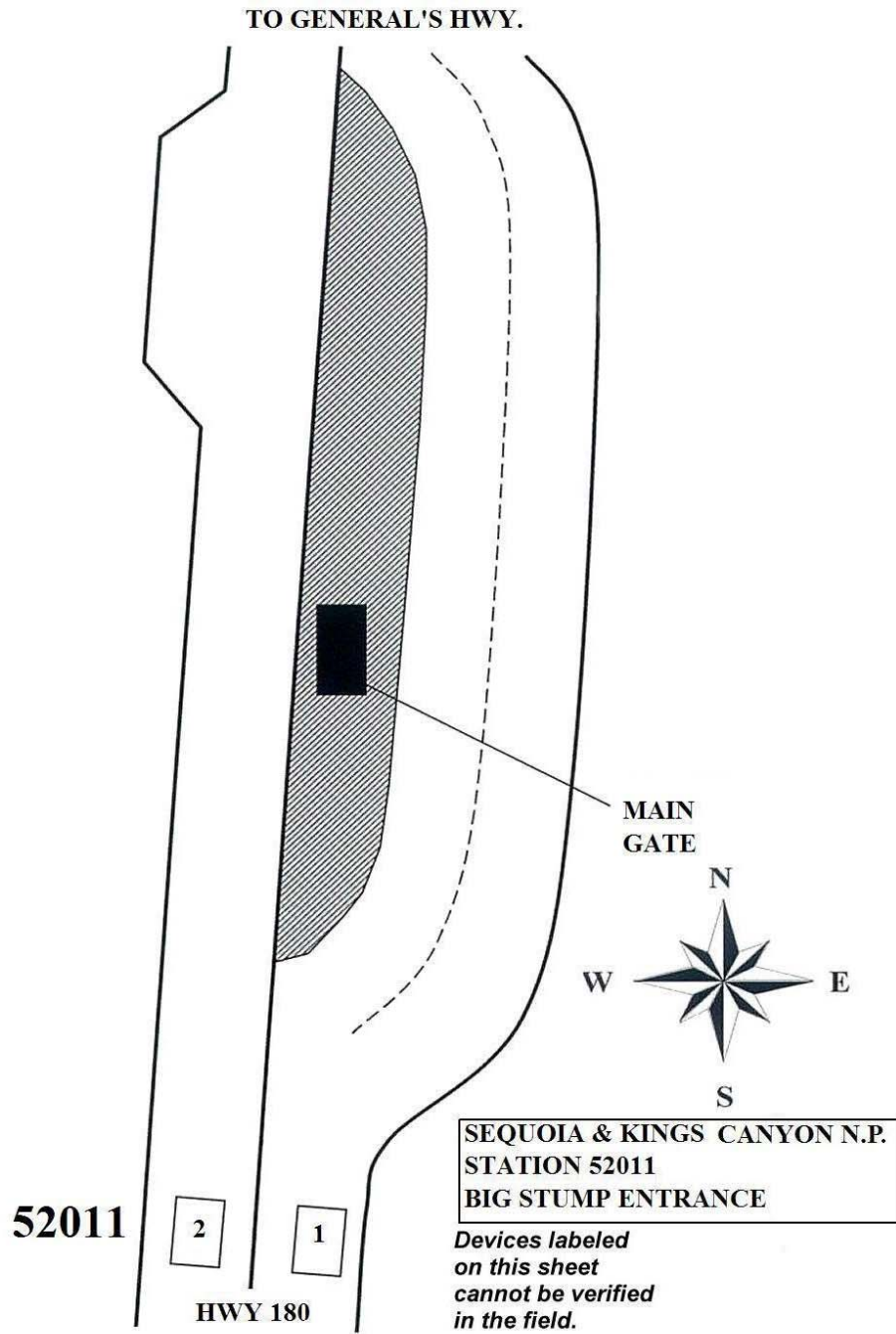
California
U.S. Department of Interior
NATIONAL PARK SERVICE





SEQUOIA & KINGS CANYON N.P.
STATION 52010
ASH MOUNTAIN ENTRANCE

*Devices labeled
on this sheet
cannot be verified
in the field.*

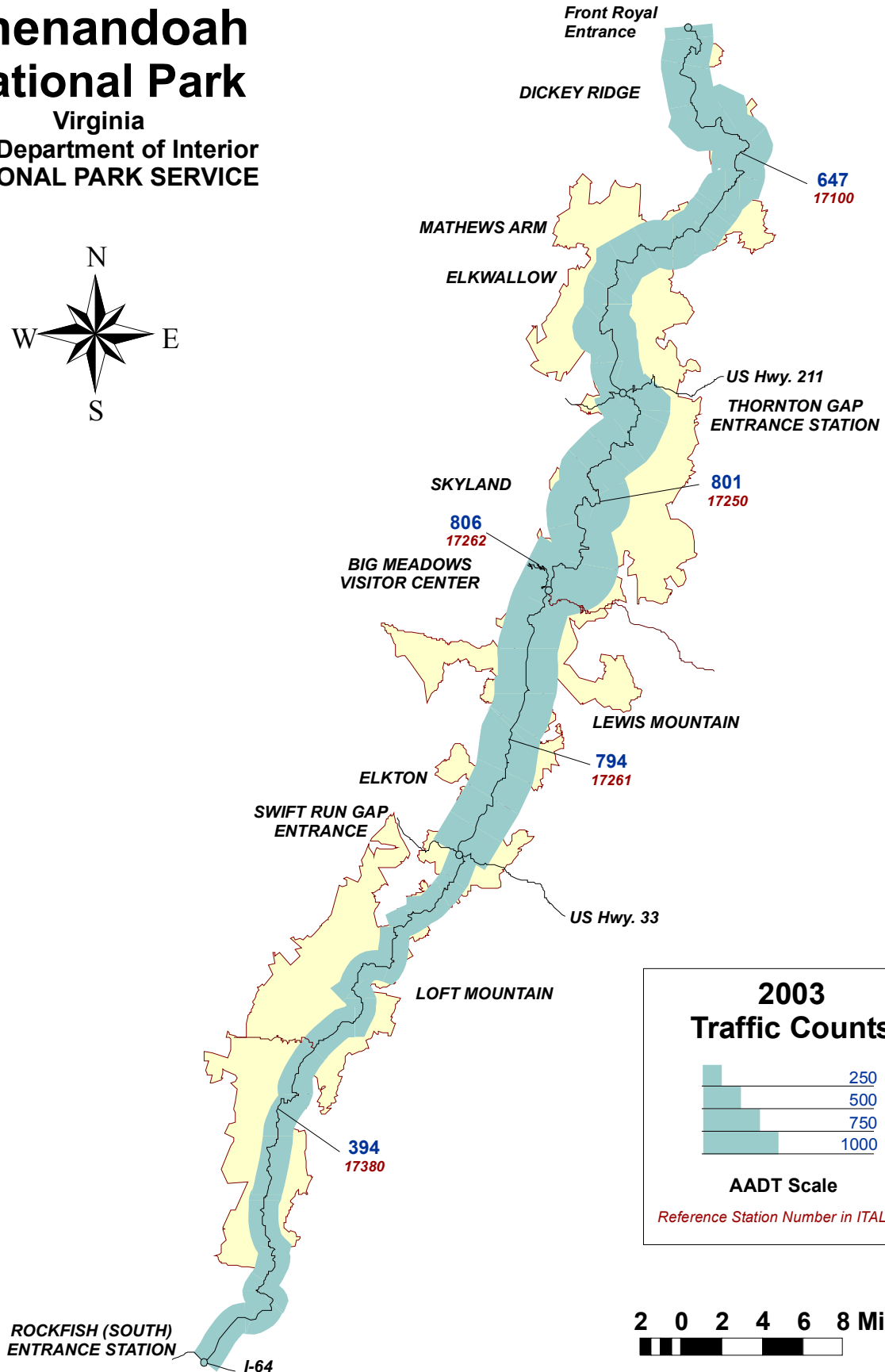
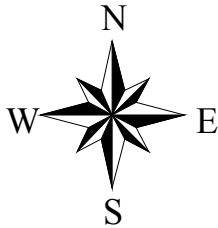


Shenandoah National Park Traffic Package



Shenandoah National Park

Virginia
U.S. Department of Interior
NATIONAL PARK SERVICE



SHENANDOAH NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	Skyline Drive - Front Royal Entrance to U. S. Hwy. 211	17100	31.5	978	997	937	647	11245	11463	10773	7439
10	Skyline Drive - U. S. Hwy. 211 to Big Meadows Visitor Center	17250	19.7	1105	1114	1024	801	7946	8010	7363	5760
10	Skyline Drive - Big Meadows Visitor Ctr. To U. S. Hwy. 33	17261	14.5	771	994	903	794	4081	5261	4779	4202
10	Skyline Drive - U. S. Hwy. 33 to Interstate Hwy. 64	17380	39.7	642	596	534	394	9303	8636	7738	5709
34	Big Meadows Entrance Rd. - Skyline Dr. to End of Lodge Loop	17262	1.4	810	1099	875	806	414	562	447	412
VMT SUMMARY								32987	33932	31100	23522

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

SHENANDOAH NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

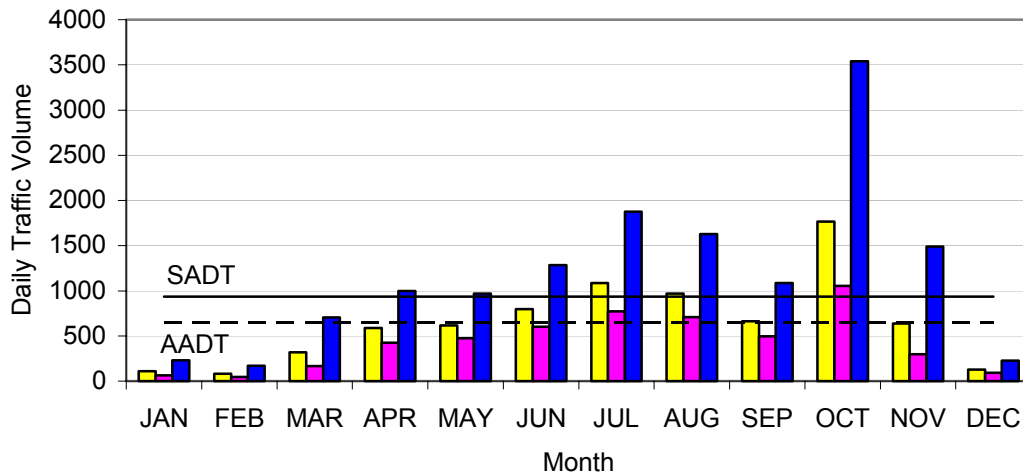
Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
17100	Skyline Drive - Front Royal Entrance to U. S. Hwy. 211					934	647	Self
17250	Skyline Drive - U. S. Hwy. 211 to Big Meadows Visitor Center					1315	801	Self
17261	Skyline Drive - Big Meadows Visitor Ctr. To U. S. Hwy. 33					1291	794	Self
17262	Big Meadows Entrance Rd. - Skyline Dr. to End of Lodge Loop					1365	806	Self
17380	Skyline Drive - U. S. Hwy. 33 to Interstate Hwy. 64					549	394	Self

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.

SHENANDOAH NATIONAL PARK

Station: 17100 Skyline Drive - Front Royal Entrance to U. S. Hwy. 211

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	110	63	229	2.8257	4.0786
2	2003	81	45	169	3.8289	5.5266
3	2003	320	166	706	0.9165	1.3229
4	2003	588	424	998	0.6484	0.9359
5	2003	616	475	969	0.6678	0.9639
6	2003	797	602	1286	0.5032	0.7263
7	2003	1087	772	1876	0.3449	0.4979
8	2003	970	707	1627	0.3977	0.5741
9	2003	663	495	1085	0.5964	0.8608
10	2003	1766	1056	3539	0.1828	0.2639
11	2003	638	297	1490	0.4343	0.6268
12	2003	129	91	226	2.8632	4.1327
Annual Average Daily Traffic (AADT)				647		
Annual Average Weekday Traffic (AAWDT)				433		
Annual Average Weekend Traffic (AAWET)				1183		
Seasonal Average Daily Traffic (SADT)				934		

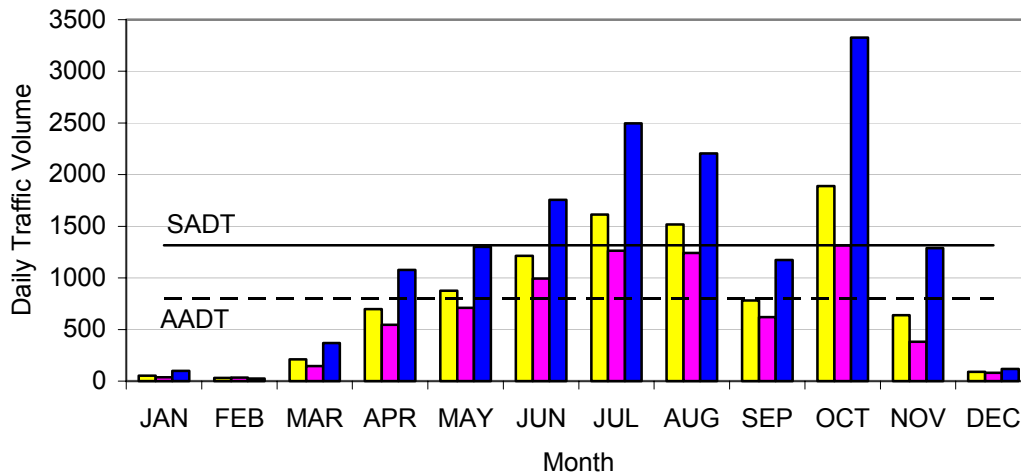


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SHENANDOAH NATIONAL PARK

Station: 17250 Skyline Drive - U. S. Hwy. 211 to Big Meadows 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	54	36	99	8.0909	13.2828
2	2003	30	33	24	33.3750	54.7917
3	2003	210	146	370	2.1649	3.5541
4	2003	696	544	1077	0.7437	1.2210
5	2003	878	708	1302	0.6152	1.0100
6	2003	1213	995	1756	0.4562	0.7489
7	2003	1615	1263	2496	0.3209	0.5268
8	2003	1517	1241	2206	0.3631	0.5961
9	2003	779	621	1175	0.6817	1.1191
10	2003	1890	1316	3326	0.2408	0.3954
11	2003	639	380	1288	0.6219	1.0210
12	2003	91	79	118	6.7881	11.1441
Annual Average Daily Traffic (AADT)				801		
Annual Average Weekday Traffic (AAWDT)				614		
Annual Average Weekend Traffic (AAWET)				1270		
Seasonal Average Daily Traffic (SADT)				1315		

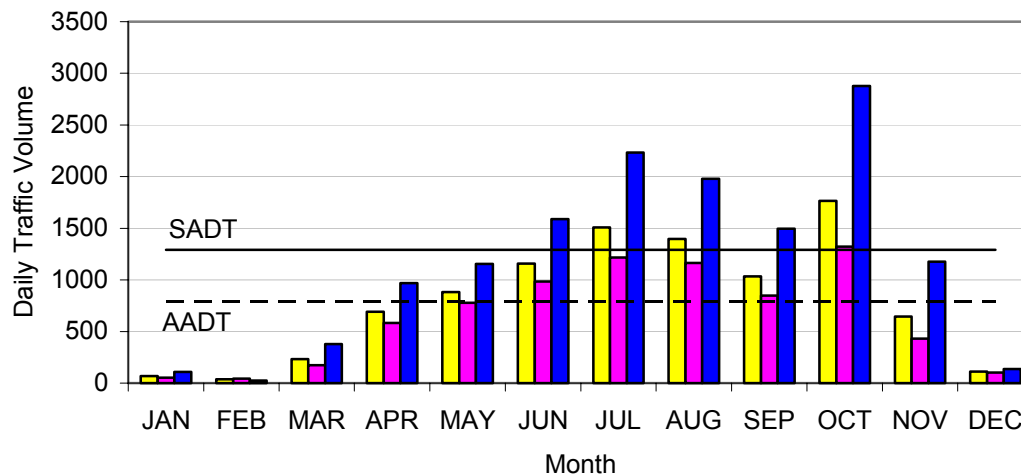


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SHENANDOAH NATIONAL PARK

Station: 17261 Skyline Drive - Big Meadows Visitor Ctr. To U. S. Hwy. 33

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	69	53	108	7.3542	11.9537
2	2003	37	42	24	33.0938	53.7917
3	2003	231	172	379	2.0956	3.4063
4	2003	692	582	969	0.8197	1.3323
5	2003	884	776	1155	0.6877	1.1177
6	2003	1158	986	1588	0.5002	0.8130
7	2003	1507	1217	2232	0.3558	0.5784
8	2003	1398	1166	1979	0.4013	0.6523
9	2003	1034	850	1495	0.5313	0.8635
10	2003	1767	1324	2877	0.2761	0.4487
11	2003	643	430	1176	0.6754	1.0978
12	2003	111	101	135	5.8833	9.5630
Annual Average Daily Traffic (AADT)				794		
Annual Average Weekday Traffic (AAWDT)				642		
Annual Average Weekend Traffic (AAWET)				1176		
Seasonal Average Daily Traffic (SADT)				1291		

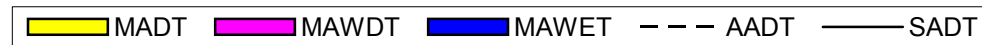
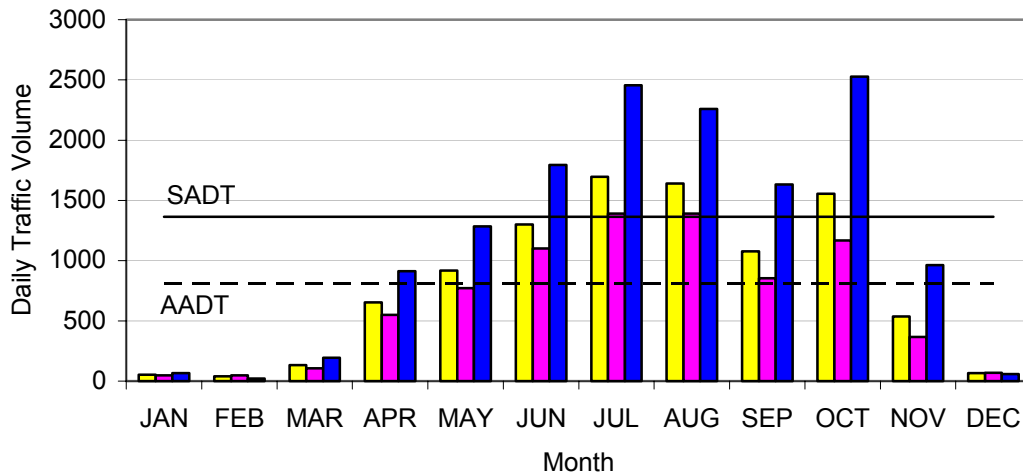


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SHENANDOAH NATIONAL PARK

Station: 17262 Big Meadows Entrance Rd. - Skyline Dr. to End of Lodge Loop

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	54	49	66	12.2109	20.6818
2	2003	41	49	20	40.2958	68.2500
3	2003	132	107	193	4.1757	7.0725
4	2003	653	550	912	0.8837	1.4967
5	2003	918	772	1284	0.6277	1.0631
6	2003	1300	1101	1796	0.4487	0.7600
7	2003	1696	1391	2456	0.3281	0.5558
8	2003	1640	1392	2258	0.3569	0.6045
9	2003	1077	855	1633	0.4935	0.8359
10	2003	1557	1169	2528	0.3188	0.5400
11	2003	537	366	965	0.8351	1.4145
12	2003	66	70	59	13.6596	23.1356
Annual Average Daily Traffic (AADT)				806		
Annual Average Weekday Traffic (AAWDT)				656		
Annual Average Weekend Traffic (AAWET)				1181		
Seasonal Average Daily Traffic (SADT)				1365		

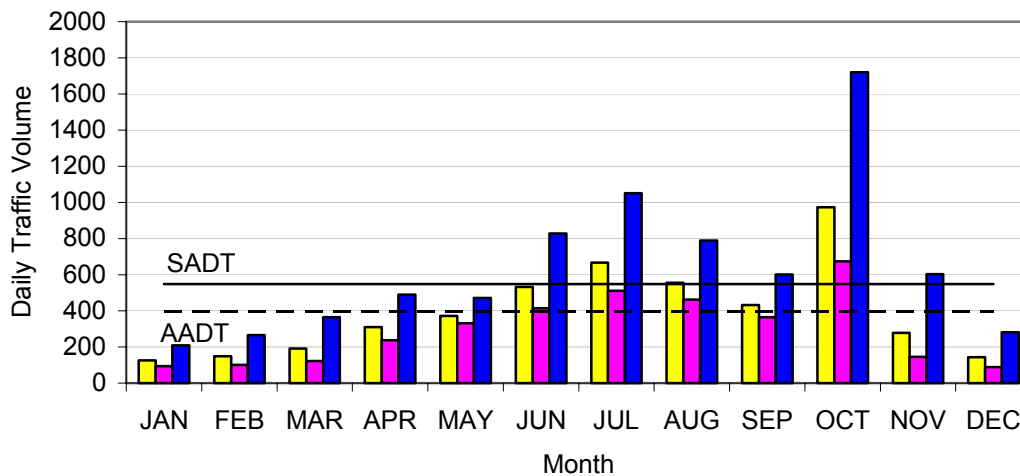


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

SHENANDOAH NATIONAL PARK

Station: 17380 Skyline Drive - U. S. Hwy. 33 to Interstate Hwy. 64

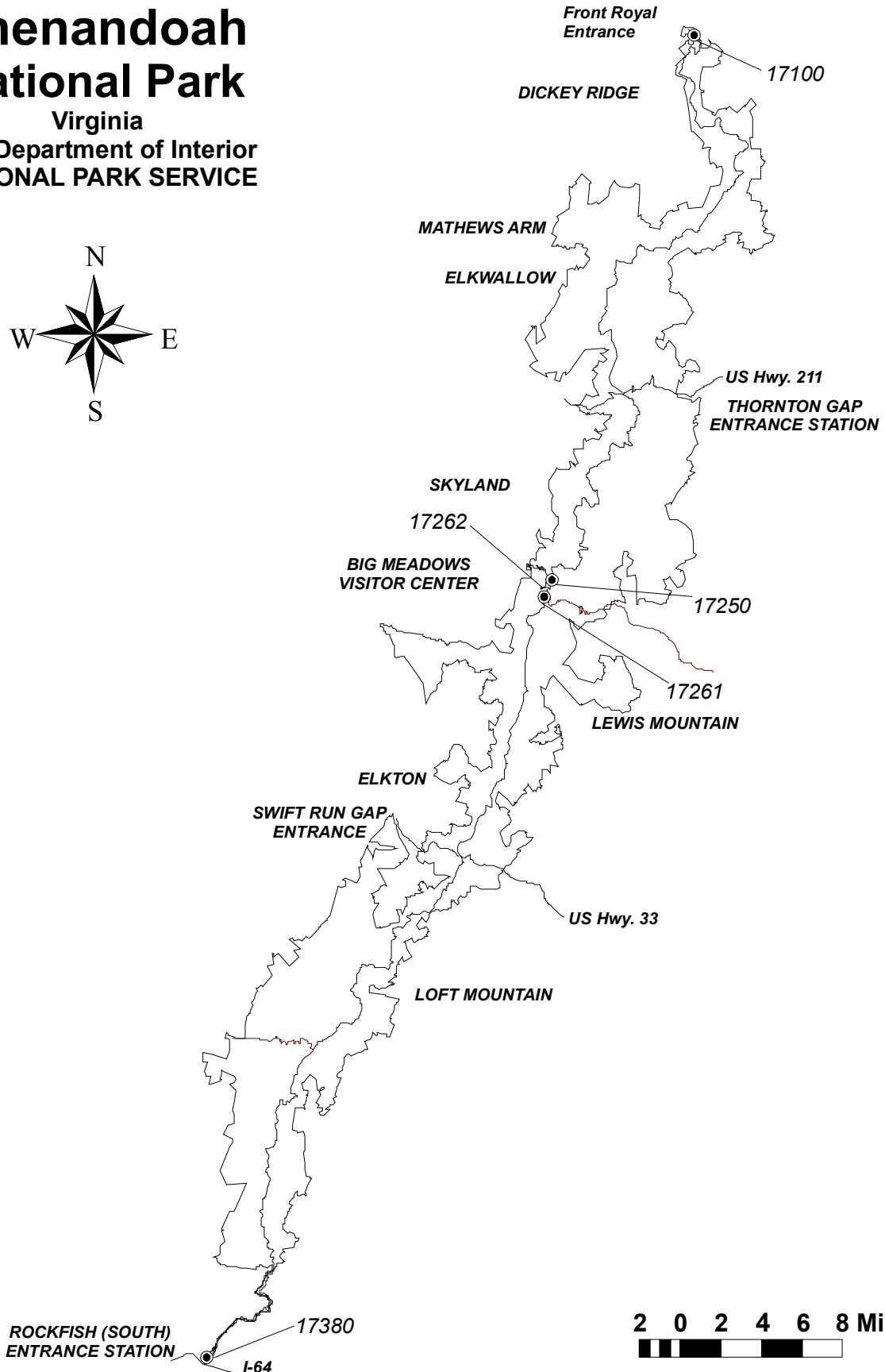
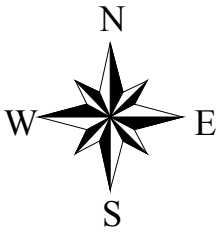
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2002	126	93	208	1.8934	2.6394
2	2002	148	101	265	1.4862	2.0717
3	2003	192	122	365	1.0790	1.5041
4	2003	309	237	490	0.8037	1.1204
5	2003	371	331	471	0.8362	1.1656
6	2003	533	415	829	0.4751	0.6622
7	2003	667	512	1052	0.3744	0.5219
8	2003	555	462	789	0.4992	0.6958
9	2003	432	364	602	0.6542	0.9120
10	2003	973	674	1720	0.2290	0.3192
11	2003	277	146	603	0.6531	0.9104
12	2003	143	88	282	1.3966	1.9468
Annual Average Daily Traffic (AADT)				394		
Annual Average Weekday Traffic (AAWDT)				295		
Annual Average Weekend Traffic (AAWET)				640		
Seasonal Average Daily Traffic (SADT)				549		

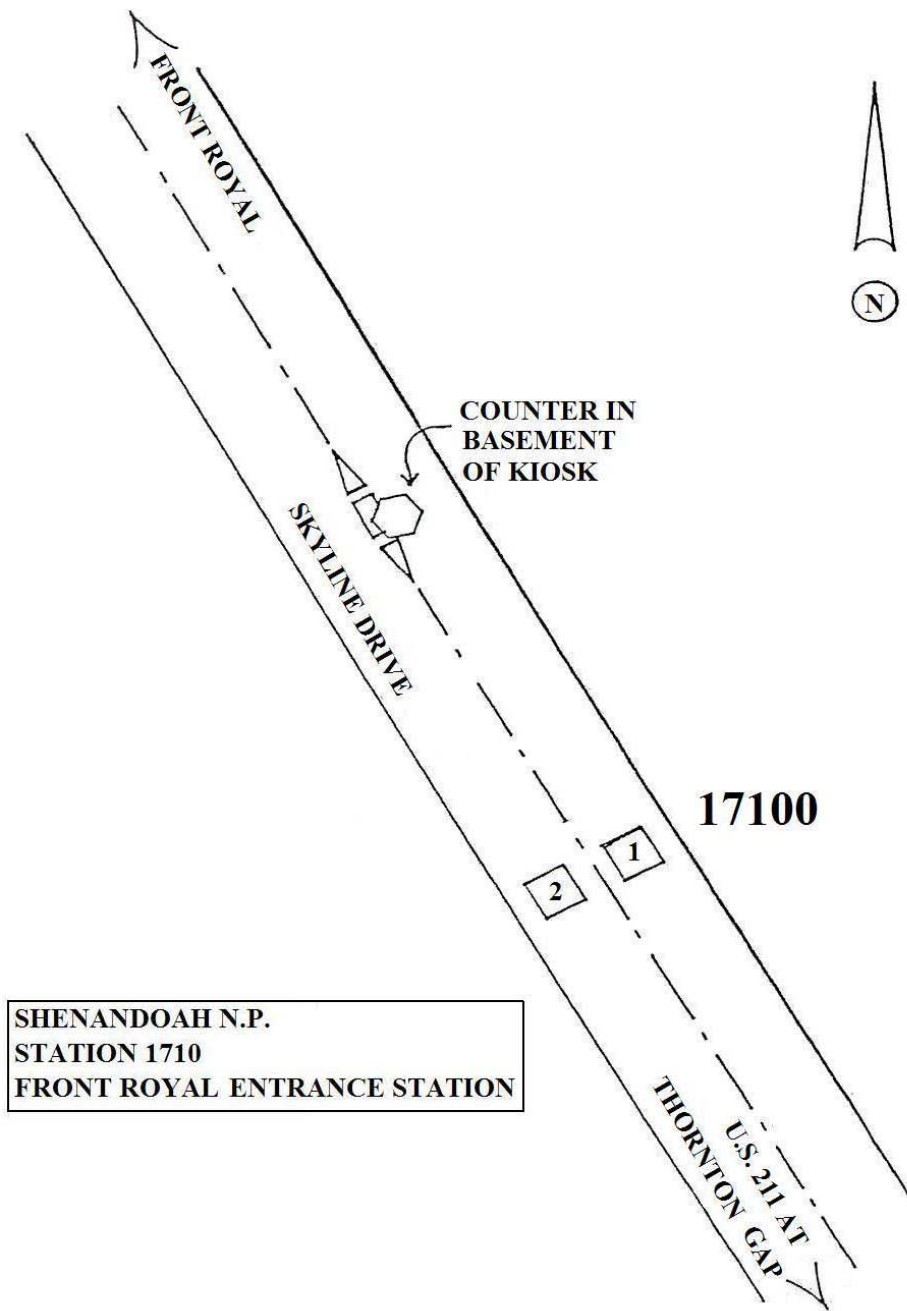


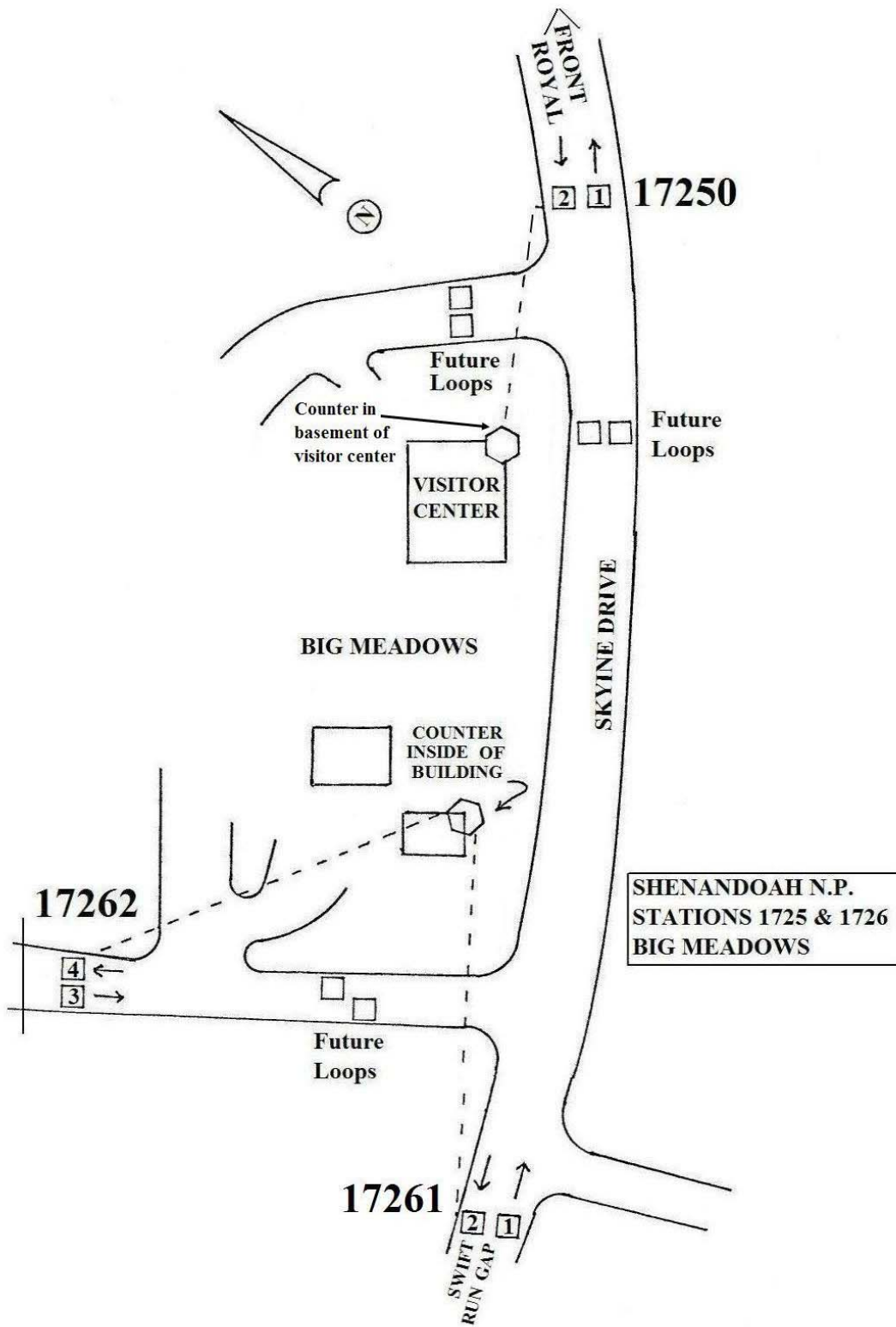
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

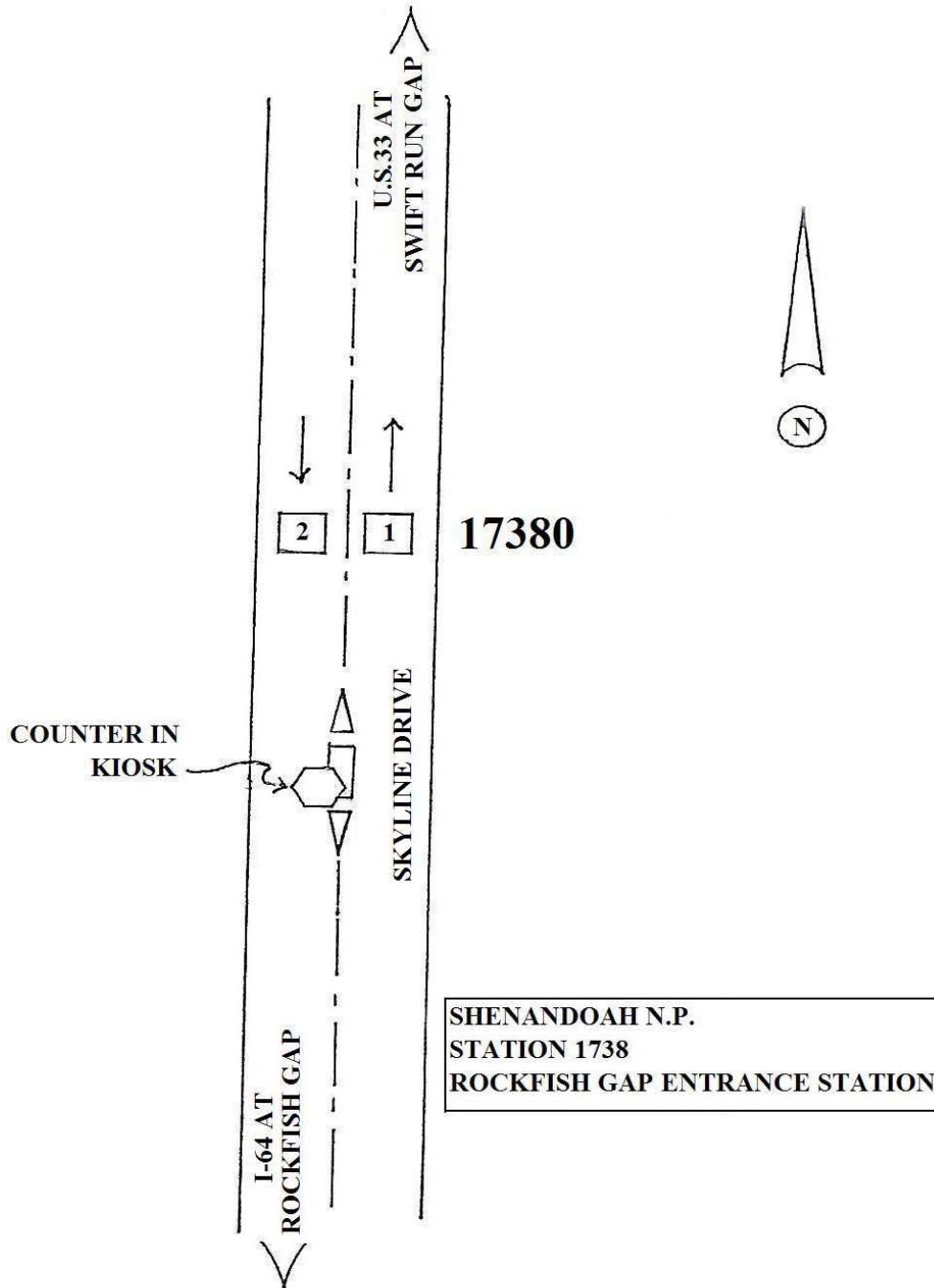
Shenandoah National Park

Virginia
U.S. Department of Interior
NATIONAL PARK SERVICE



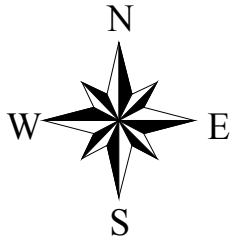






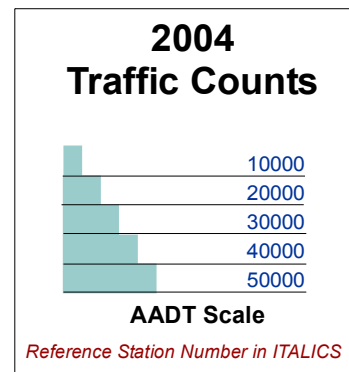
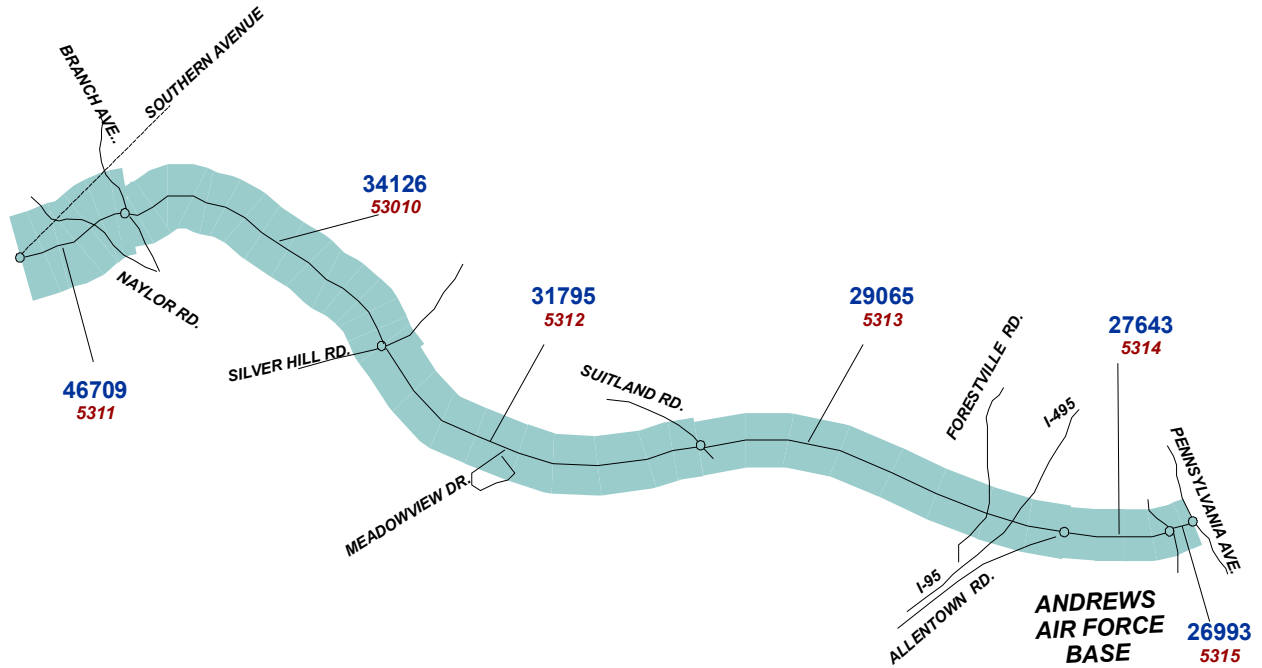
Suitland Parkway Traffic Package





Suitland Parkway

Maryland
U.S. Department of Interior
NATIONAL PARK SERVICE



SUITLAND PARKWAY

TRAFFIC TRENDS SUMMARY

Rt. Roadway No. Segment	Sta. ID.	Length	AADT				VMT(1000's)				
			1988	1991	1994	2004	1988	1991	1994	2004	
1 Suitland Parkway - D.C- Maryland Line to Branch Ave.	5311	0.47	32154	31113	31224	46709	5516	5337	5356	8013	
1 Suitland Parkway - Branch Ave. to Silver Hill Road	53010	1.43	19536	22420	15737	34126	10197	11702	8214	17812	
1 Suitland Parkway - Silver Hill Road to Suitland Road	5312	1.82	19565	21032	16245	31795	12997	13972	10792	21121	
1 Suitland Parkway - Suitland Road to Allentown Road	5313	2.03	16856	17742	16442	29065	12489	13146	12183	21536	
1 Suitland Parkway - Allentown Road to Entrance Andrews AFB.	5314	0.42	17032	16886	12054	27643	2611	2589	1848	4238	
1 Suitland Parkway - Entrance Andrews AFB to Pennsylvania Ave.	5315	0.21	16753	19758	14132	26993	1284	1514	1083	2069	
Note: AADT -- Annual Average Daily Traffic							45094	48260	39476	74789	
VMT-- Vehicle Miles of Travel											

SUITLAND PARKWAY

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
53010	Suitland Parkway - Branch Ave. to Silver Hill Road					34598	34126	Self
5311	Suitland Parkway - D.C- Maryland Line to Branch Ave.	10/25/2004	51544	0.9187	0.9062	47356	46709	53010
5312	Suitland Parkway - Silver Hill Road to Suitland Road	10/26/2004	35086	0.9187	0.9062	32235	31795	53010
5313	Suitland Parkway - Suitland Road to Allentown Road	10/26/2004	32073	0.9187	0.9062	29467	29065	53010
5314	Suitland Parkway - Allentown Road to Entrance Andrews AFB.	10/27/2004	30504	0.9187	0.9062	28025	27643	53010
5315	Suitland Parkway - Entrance Andrews AFB to Pennsylvania Ave.	11/1/2004	29787	0.9187	0.9062	27367	26993	53010

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.

SUITLAND PARKWAY

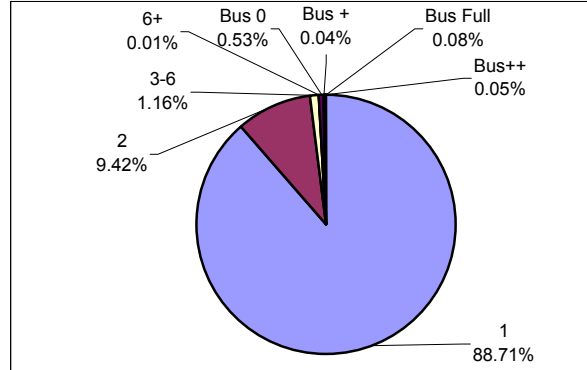
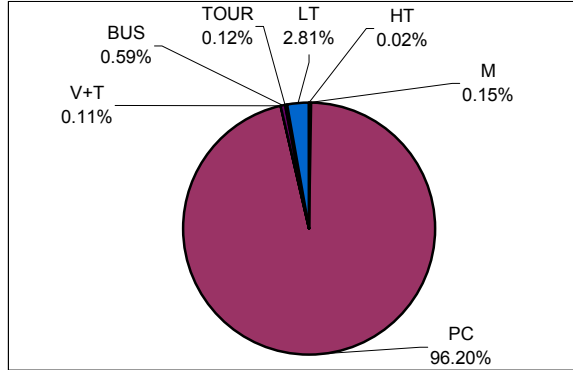
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

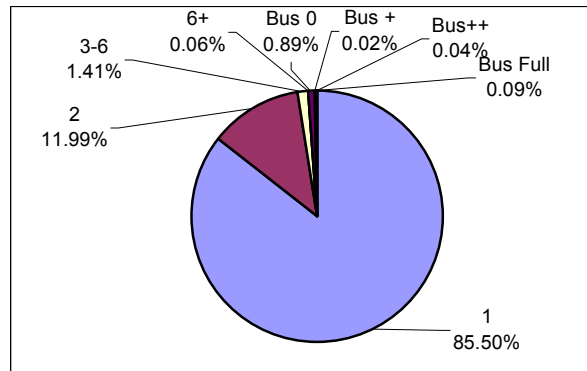
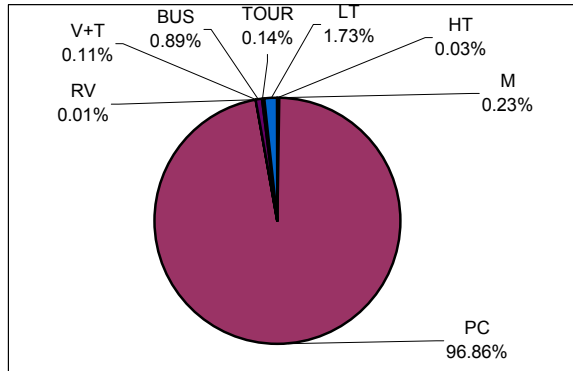
Location: STATION 53010

Location: STATION 53010



Location: STATION 5313

Location: STATION 5313



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

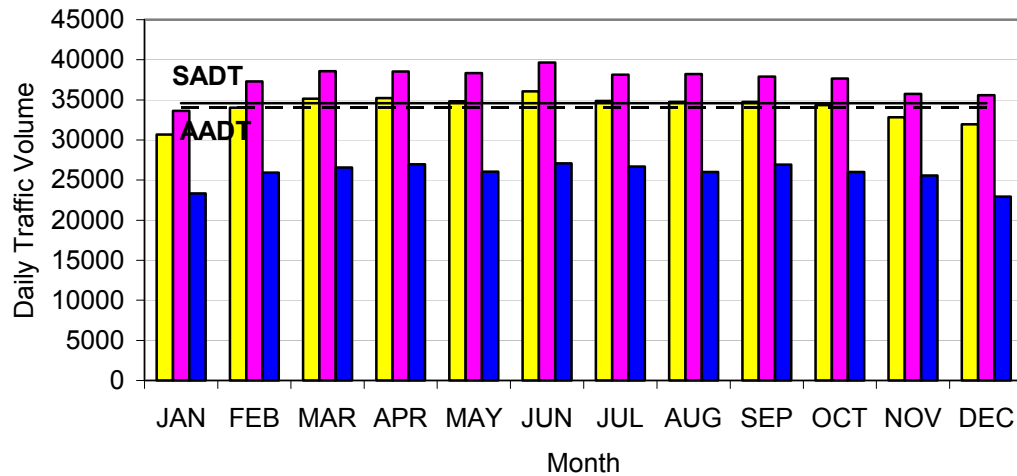
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

SUITLAND PARKWAY

Station: 53010 Suitland Parkway - Branch Ave. to Silver Hill Road

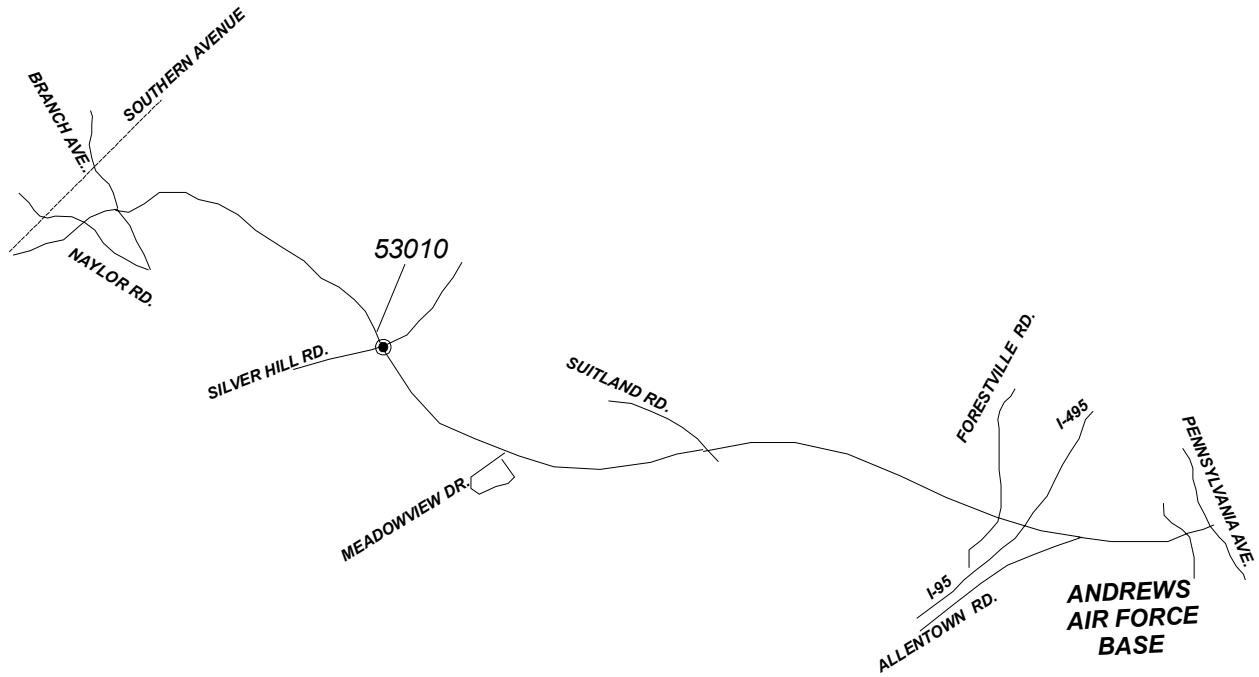
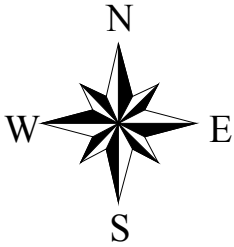
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2004	30697	33644	23327	1.0143	1.0284
2	2004	34041	37289	25920	0.9152	0.9278
3	2004	35140	38563	26584	0.8849	0.8972
4	2004	35233	38536	26977	0.8856	0.8978
5	2003	34833	38339	26066	0.8901	0.9024
6	2003	36056	39648	27079	0.8607	0.8726
7	2003	34883	38157	26698	0.8944	0.9067
8	2003	34740	38235	26005	0.8925	0.9049
9	2003	34758	37890	26927	0.9007	0.9131
10	2003	34333	37658	26020	0.9062	0.9187
11	2003	32831	35739	25560	0.9549	0.9681
12	2003	31965	35572	22947	0.9593	0.9726
Annual Average Daily Traffic (AADT)				34126		
Annual Average Weekday Traffic (AAWDT)				37439		
Annual Average Weekend Traffic (AAWET)				25843		
Seasonal Average Daily Traffic (SADT)				34598		

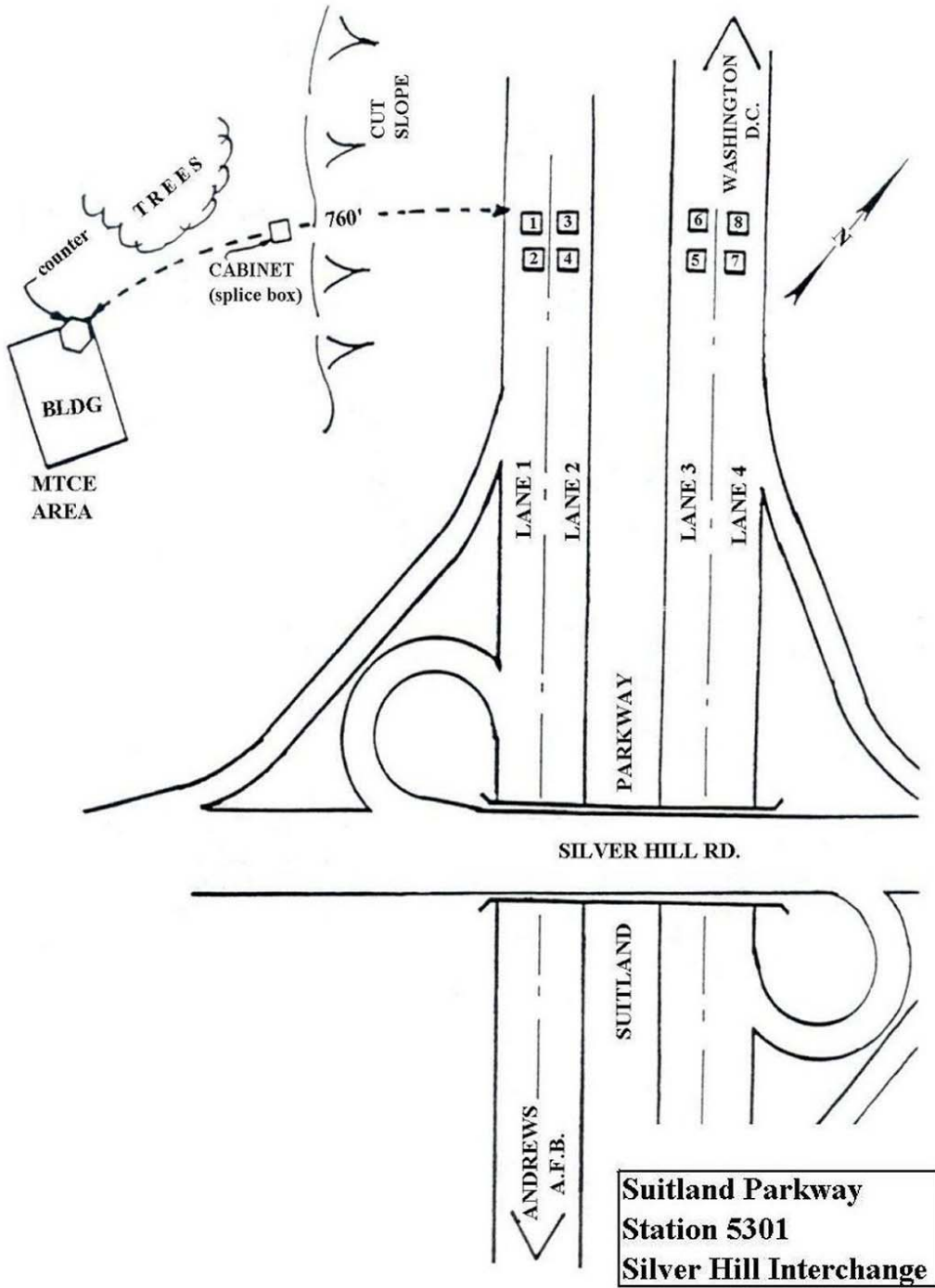


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

Suitland Parkway

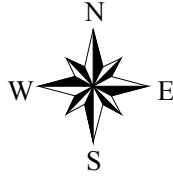
Maryland
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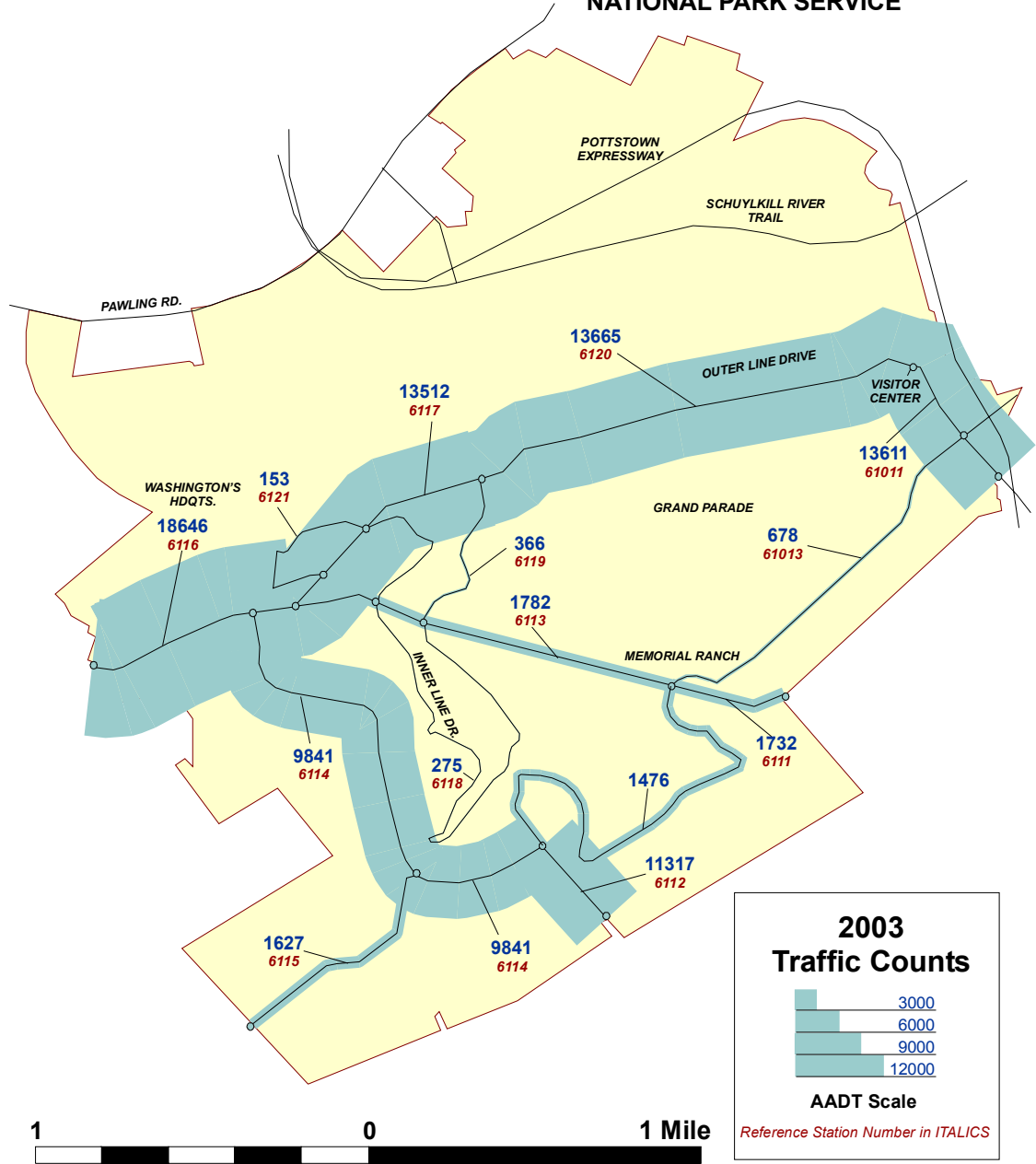
Valley Forge National Military Park Traffic Package





Valley Forge National Historical Park

Pennsylvania
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NATIONAL PARK SERVICE



VALLEY FORGE NATIONAL MILITARY PA 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.

** Roadway segment was refined to provide more accurate representation of traffic use. AADT was computed as a difference between AADTs in south-bound direction estimated for stations 6112 and 6114

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. Adjustment factors are based on weekend counts.

VALLEY FORGE NATIONAL MILITARY PARK

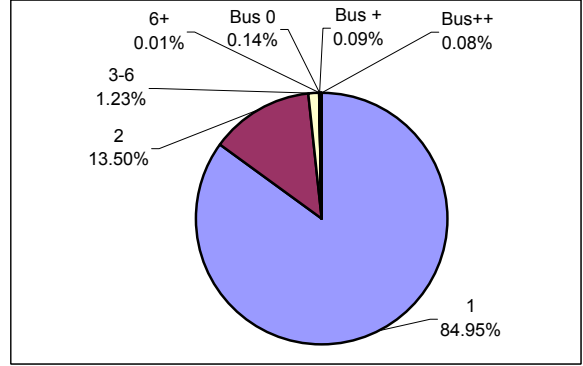
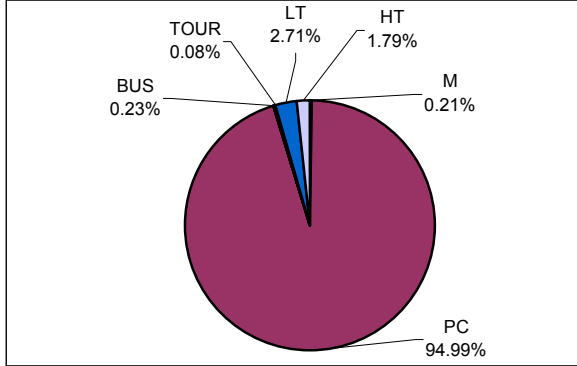
2003 TRAFFIC COMPOSITION SUMMARY

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

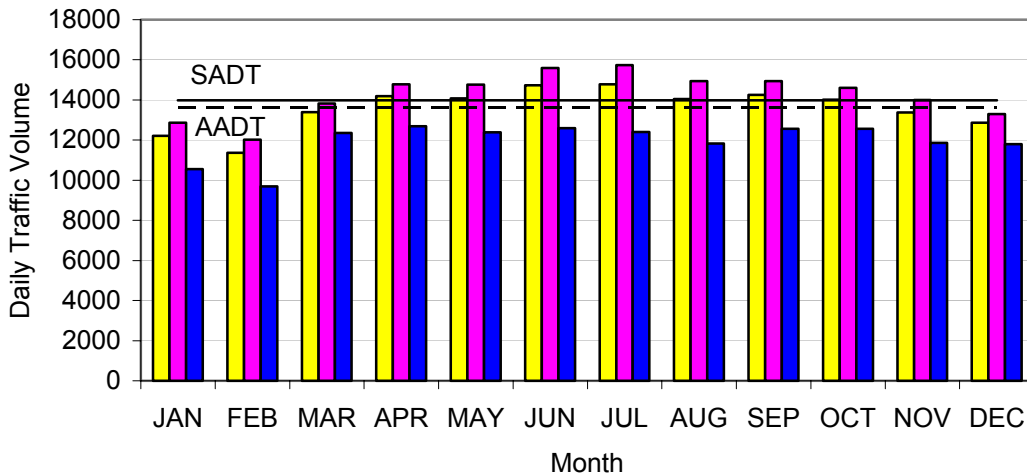
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

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		

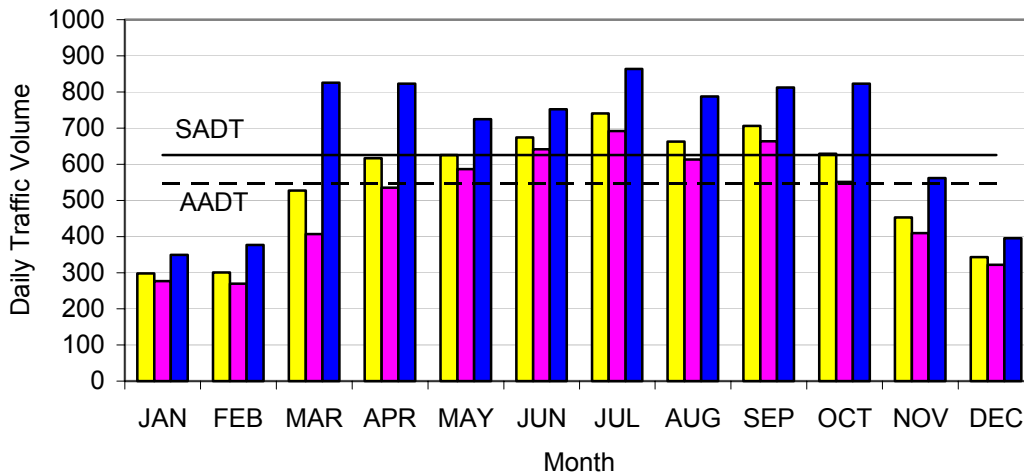


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

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		

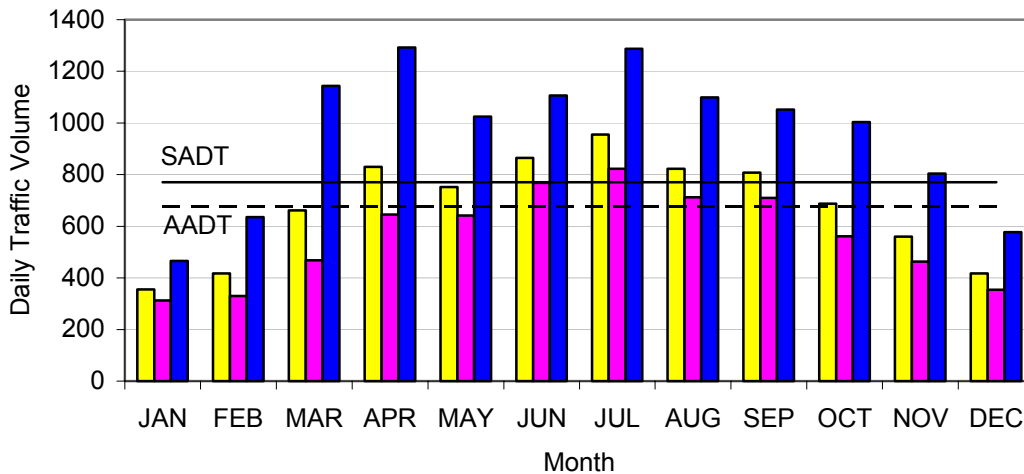


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

VALLEY FORGE NATIONAL MILITARY PARK

Station: 61013 Outer Line West of Visitor Center

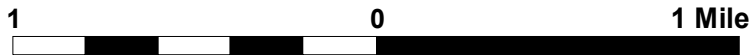
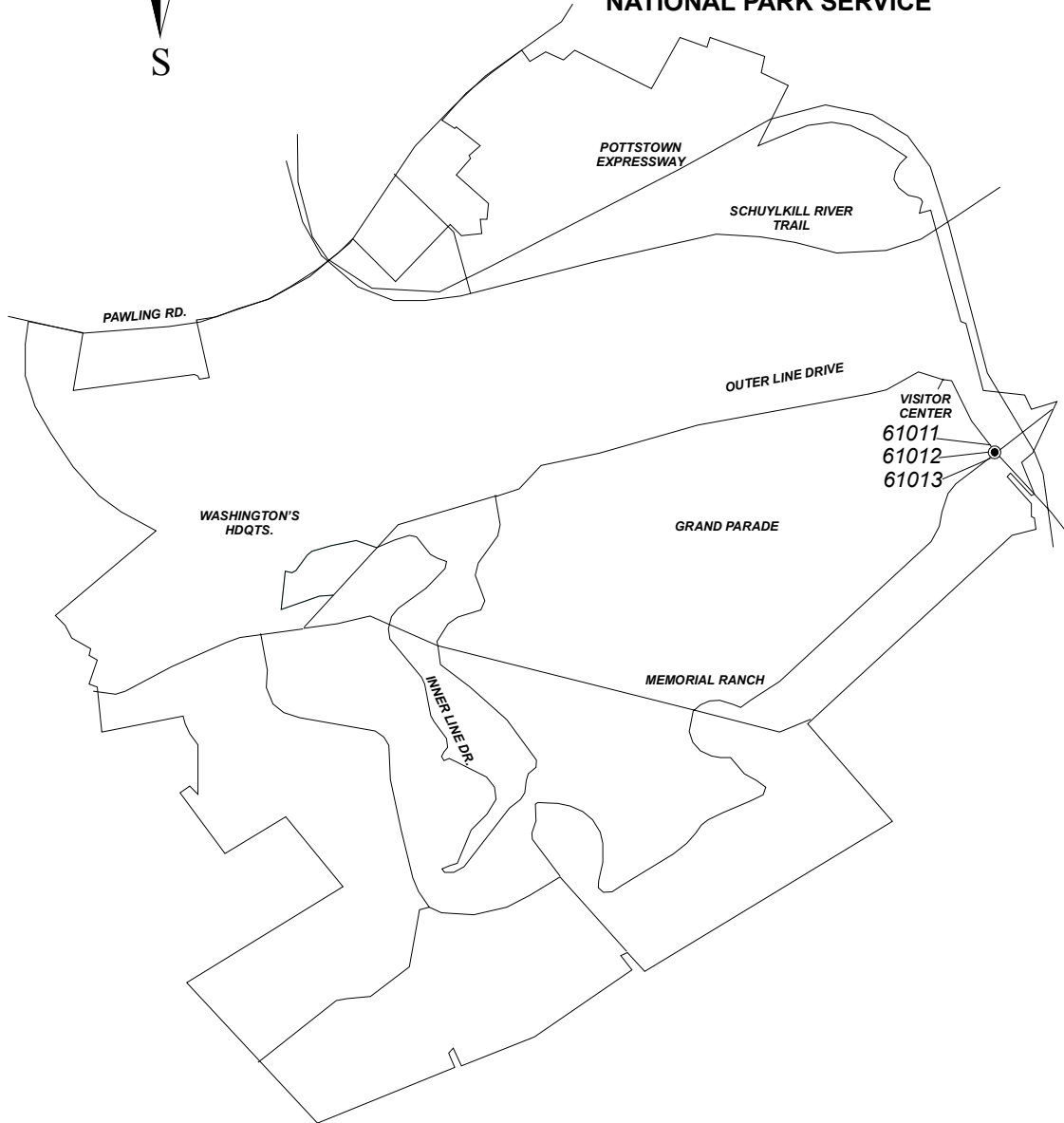
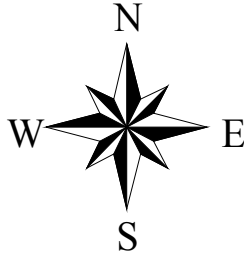
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)*	Seasonal Average Daily Traffic Factor (SADTF)*
1	2003	356	312	466	2.1717	2.4712
2	2003	417	329	636	2.0595	2.3435
3	2003	661	468	1143	1.4478	1.6474
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		

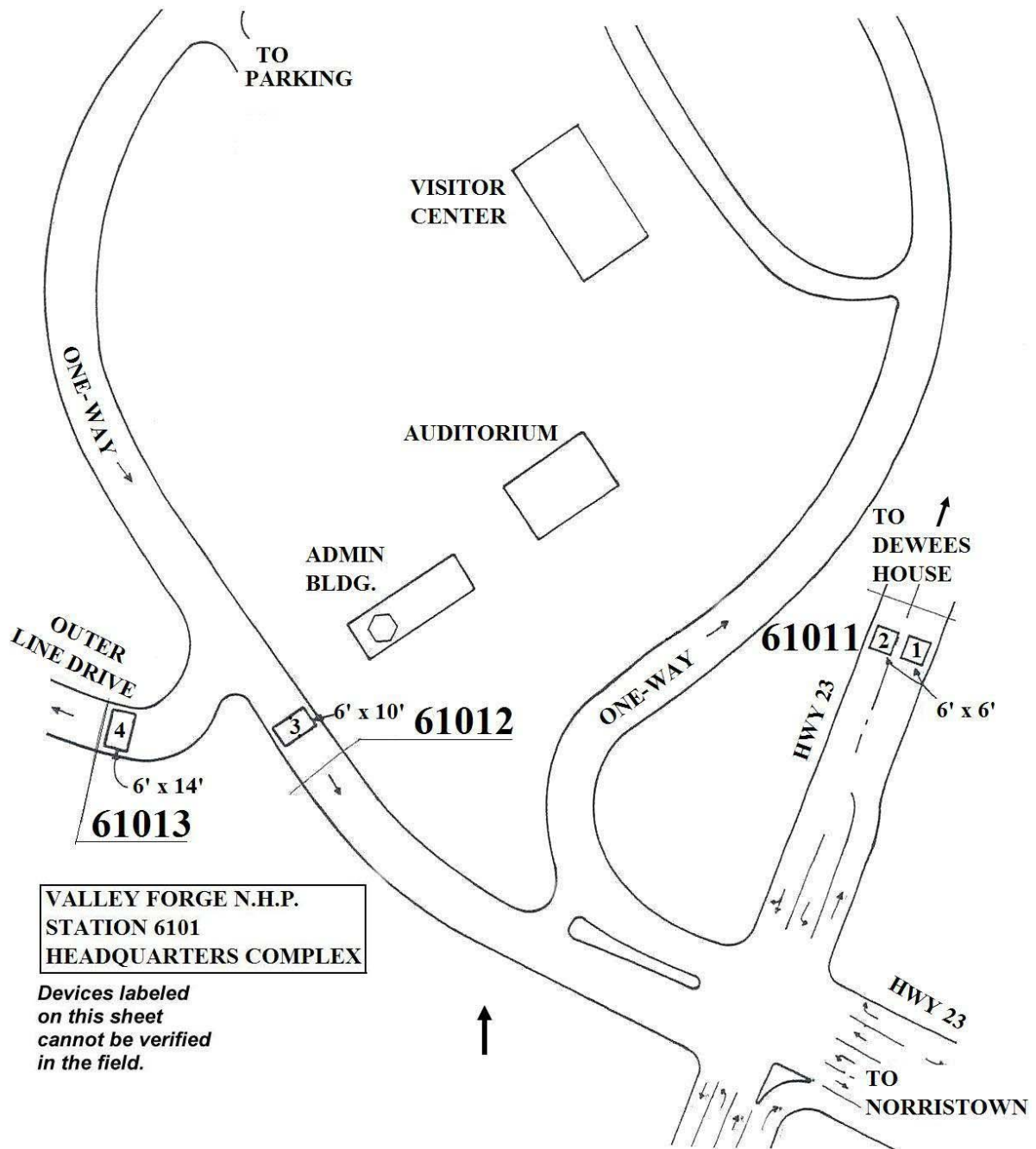


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

Valley Forge National Historical Park

Pennsylvania
U.S. Department of Interior
NATIONAL PARK SERVICE





Yellowstone National Park Traffic Package



YELLOWSTONE NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2003	1988	1991	1994	2003
10	Grand Loop Rd. - Mammoth to Upper Terrace Area	2711	2.07	1959	2899	2264	1532	1480	2190	1711	1158
10	Grand Loop Rd. - Upper Terrace Area to Norris Junction	2712	18.1	1800	789	1838	1312	11892	5213	12143	8668
10	Grand Loop Rd. - Norris Junction to Madison Junction	27013	14.13	1482	1856	2199	1879	7643	9572	11341	9691
10	Grand Loop Rd. - Madison Jct. To So. Jct. Firehold Lake Dr.	27012	9.13	1790	2149	2684	2402	5965	7161	8944	8005
10	Grand Loop Rd. - Firehole Lake Dr. to Old Faithful Ent. Rd.	2716	6.75	2550	4427	2704	2596	6283	10907	6662	6396
10	Grand Loop Rd. - Old Faithful Entr. Rd. to West Thumb	2719	17.78	2548	4337	2680	2068	16536	28146	17392	13421
10	Grand Loop Rd. - West Thumb to Gull Point Drive	2723	15.09	2261	2820	1691	1763	12453	15532	9314	9710
10	Grand Loop Rd. - Gull Point Drive to Fishing Bridge Jct.	27041	5.31	1676	1819	2101	1940	3248	3525	4072	3760
10	Grand Loop Rd. - Fishing Bridge Jct. to South Rim Drive	27043	13.1	1507	1664	1963	2156	7206	7956	9386	10309
10	Grand Loop Rd. - South Rim Drive to Canyon Junction	2726	2.26	2163	3304	2583	2539	1784	2725	2131	2094
10	Grand Loop Rd. - Canyon Junction to Chitten Rd.	2729	9.72	725	1134	1429	1602	2572	4023	5070	5684
10	Grand Loop Rd. - Chitten Rd. to Tower Junction	2730	8.52	825	920	1331	1469	2566	2861	4139	4568
10	Grand Loop Rd. - Tower Junction to Blacktail Plateau Drive	2732	9.93	917	1063	1851	1685	3324	3853	6709	6107
10	Grand Loop Rds. - Blacktail Plateau Drive to Mammoth	27021	8.25	814	1019	1139	1132	2451	3068	3430	3409
11	North Entrance Rd. - Mammoth to North Entrance	27022	5.23	1948	2250	2483	2294	3719	4295	4740	4379
12	Northeast Entrance Rd. - Tower Junction to Park Boundary	2731	28.61	358	415	1019	1982	3738	4334	10641	20697
13	East Entrance Rd. - Fishing Bridge Jct. to Lake Butte Rd.	27042	9.54	1716	1914	2164	2077	5975	6665	7535	7232
13	East Entrance Rd. - Lake Butte Rd. to East Park Boundary	2734	16.48	1600	1632	862	828	9624	9817	5185	4981
14	South Entrance Rd. - West Thumb to Grant Road	2720	1.75	2180	2153	2618	2205	1392	1375	1672	1408
14	South Entrance Rd. - Grant Road to Lewis Lake Road	2721	8.3	2180	4292	1979	1513	6604	13003	5995	4584
14	South Entrance Rd. - Lewis Lake Road to South Park Entrance	27030	11.4	926	1554	1748	1387	3853	6466	7273	5771
15	West Entrance Rd. - Madison Junction to West Park Entrance	27011	13.85	1762	2086	2643	2525	8907	10545	13361	12765
16	Norris Canyon Rd. - Canyon Junction to Virginia Cascade Dr.	2728	9.91	1083	1434	2093	1628	3917	5187	7571	5889
16	Norris Canyon Rd. - Virginia Cascade Dr. to Norris Junction	2713	1.66	1083	1934	1992	1508	656	1172	1207	914
17	Old Faithful Rd. - Grand Loop Rd. to Old Faithful	2717/8	2.97	5729	6273	4313	3852	6211	6800	4676	4176
100	Grant Road - South Entrance Rd. to Grant	2722	1.8	660	1799	1694	1513	434	1182	1113	994
103	Canyon Village Rd. - Canyon Junction to North Rim Drive	2727	0.31	786	1262	1542	2848	89	143	174	322
108	South Rim Drive - Grand Loop Rd. to Artist Point	2725	1.75	510	2623	1522	1510	326	1675	972	965
110	Lake Road - Grand Loop Rd. to Lake Hospital	2724	1.43	550	605	1411	1717	287	316	736	896
220	Norris Geyser Basin Rd. - Norris Junction to End of Loop	2714	0.72	360	993	1362	1009	95	261	358	265
504	Firehole Canyon Drive - Grand Loop Rd. to Grand Loop Rd.	2733	2.2	216	311	587	438	173	250	471	352
12	Northeast Entrance Rd. - Park Boundary to End of NPS Mtce.	2735	59.55	350	2200	2570	1775	7608	47819	55861	38581
VMT SUMMARY								149012	228038	231986	208149

Note: AADT -- Annual Average Daily Traffic
VMT-- Vehicle Miles of Travel

YELLOWSTONE NATIONAL PARK

2003 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
27011	West Entrance Rd. - Madison Junction to West Park Entrance					5243	2525	Self
27012	Grand Loop Rd. - Madison Jct. To So. Jct. Firehold Lake Dr.					5030	2402	Self
27013	Grand Loop Rd. - Norris Junction to Madison Junction					4557	1879	Self
27021	Grand Loop Rds. - Blacktail Plateau Drive to Mammoth					2279	1132	Self
27022	North Entrance Rd. - Mammoth to North Entrance					2883	2294	Self
27030	South Entrance Rd. - Lewis Lake Road to South Park Entrance					3562	1387	Self
27041	Grand Loop Rd. - Gull Point Drive to Fishing Bridge Jct.					4814	1940	Self
27042	East Entrance Rd. - Fishing Bridge Jct. to Lake Butte Rd.						2077	**
27043	Grand Loop Rd. - Fishing Bridge Jct. to South Rim Drive	8/16/03	5040	1.06176	0.42779	5351	2156	27041
2711	Grand Loop Rd. - Mammoth to Upper Terrace Area	8/16/03	4316	0.86079	0.3550	3715	1532	27013
2712	Grand Loop Rd. - Upper Terrace Area to Norris Junction	8/16/03	3696	0.86079	0.3550	3181	1312	27013
2713	Norris Canyon Rd. - Virginia Cascade Dr. to Norris Junction	8/16/03	4247	0.86079	0.3550	3656	1508	27013
2714	Norris Geyser Basin Rd. - Norris Junction to End of Loop	8/16/03	2841	0.86079	0.3550	2445	1009	27013
2715	Grand Loop Rd. - South of Noris	8/16/03	5354	0.86079	0.3550	4609	1901	27013
2716	Grand Loop Rd. - Firehole Lake Dr. to Old Faithful Ent. Rd.	8/16/03	6632	0.81989	0.39147	5437	2596	27012
2717	Old Faithful Rd. - WB - Grand Loop Rd. to Old Faithful	8/16/03	4890	0.81989	0.39147	4009	1914	27012
2718	Old Faithful Rd. - EB - Grand Loop Rd. to Old Faithful	8/16/03	4949	0.81989	0.39147	4058	1937	27012
2717/8	Old Faithful Rd. - (EB and WB combined)	8/16/03	9839	0.81989	0.39147	8067	3852	27012
2719	Grand Loop Rd. - Old Faithful Entr. Rd. to West Thumb	8/16/03	5282	0.81989	0.39147	4331	2068	27012
2720	South Entrance Rd. - West Thumb to Grant Road	8/16/03	6212	0.91123	0.35491	5661	2205	27030
2721	South Entrance Rd. - Grant Road to Lewis Lake Road	8/16/03	4264	0.91123	0.35491	3885	1513	27030
2722	Grant Road - South Entrance Rd. to Grant	8/16/03	4262	0.91123	0.35491	3884	1513	27030
2723	Grand Loop Rd. - West Thumb to Gull Point Drive	8/16/03	4121	1.06176	0.42779	4375	1763	27041
2724	Lake Road - Grand Loop Rd. to Lake Hospital	8/16/03	4014	1.06176	0.42779	4262	1717	27041
2725	South Rim Drive - Grand Loop Rd. to Artist Point	8/16/03	3529	1.06176	0.42779	3747	1510	27041
2726	Grand Loop Rd. - South Rim Drive to Canyon Junction	8/16/03	5936	1.06176	0.42779	6303	2539	27041
2727	Canyon Village Rd. - Canyon Junction to North Rim Drive	8/16/03	6657	1.06176	0.42779	7068	2848	27041
2728	Norris Canyon Rd. - Canyon Junction to Virginia Cascade Dr.	8/16/03	4586	0.86079	0.3550	3948	1628	27013
2729	Grand Loop Rd. - Canyon Junction to Chitten Rd.	8/16/03	3746	1.06176	0.42779	3977	1602	27041
2730	Grand Loop Rd. - Chitten Rd. to Tower Junction	8/16/03	3434	1.06176	0.42779	3646	1469	27041
2731	Northeast Entrance Rd. - Tower Junction to Park Boundary	8/16/03	3097	0.80418	0.6400	2491	1982	27022
2732*	Grand Loop Rd. - Tower Junction to Blacktail Plateau Dr.	8/18/03	2922	0.72474	0.57673	2118	1685	27022
2733	Firehole Canyon Drive - Grand Loop Rd. to Grand Loop Rd.	8/16/03	1118	0.81989	0.39147	917	438	27012
2734	East Entrance Rd. - Lake Butte Rd. to East Park Boundary						828	***
2735	Northeast Entrance Rd. - Park Boundary to End of NPS Mtce.	8/16/03	2774	0.80418	0.6400	2231	1775	27022

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.

* Station 2732 was recounted at a different date due to equipment failure. Adjustment factors are based on weekend counts.

** Station 27042 -- 1994 AADT estimate of 2164 factored by park traffic growth factor GF of 0.96

*** Station 2734 -- 1994 AADT estimate of 862 factored by park traffic growth factor GF of 0.96

YELLOWSTONE NATIONAL PARK

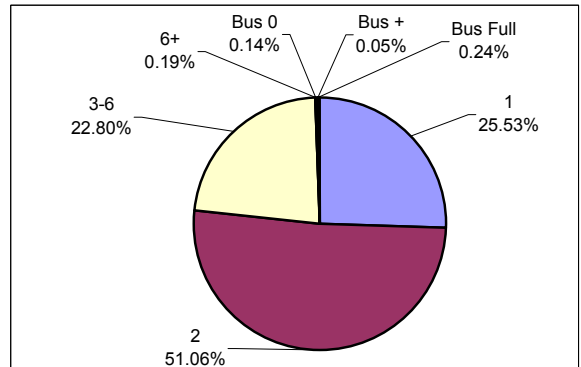
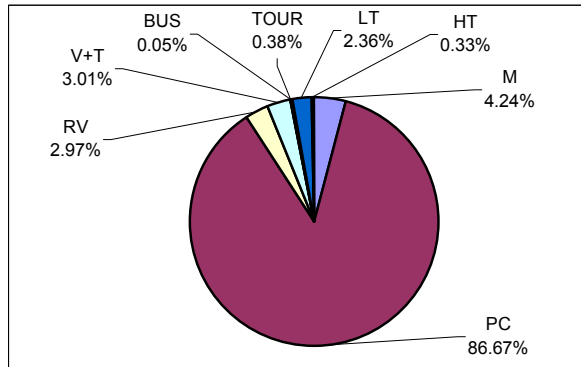
2003 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

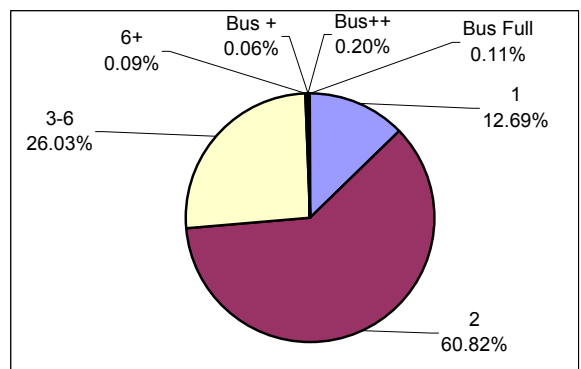
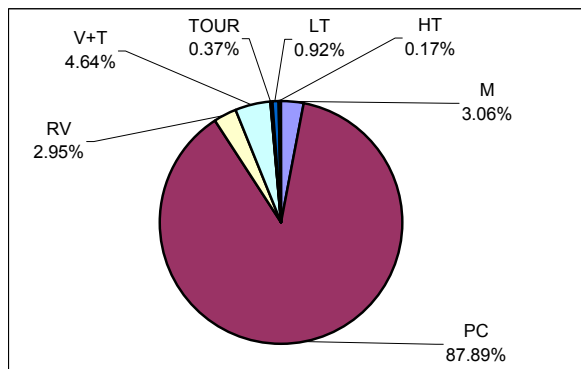
Location: STATION 27022

Location: STATION 27022



Location: STATION 27011

Location: STATION 27011



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

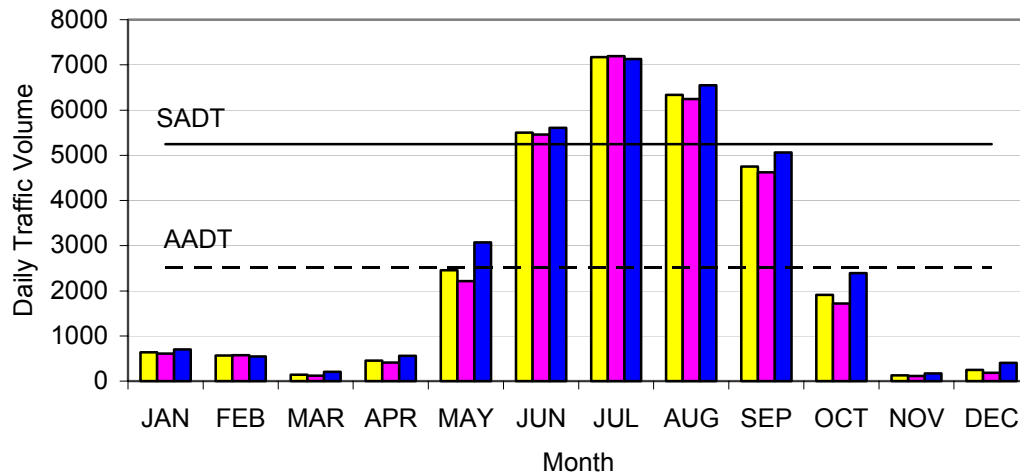
No.	Vehicle Occupancy
1	1 Occupant
2	2 Occupants
3-6	3-6 Occupants (car load)
6+	More than 6 Occupants, (non-Bus)
Bus 0	Bus, No Passengers
Bus +	Bus, Few Passengers
Bus ++	Bus, Semi-Loaded
Bus Full	Bus, Fully Loaded

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

YELLOWSTONE NATIONAL PARK

Station: 27011 West Entrance Rd. - Madison Junction to West Park Entrance

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	637	610	704	3.5872	7.4474
2	2003	565	574	545	4.6338	9.6202
3	2003	144	118	208	12.1414	25.2067
4	2003	456	414	562	4.4936	9.3292
5	2003	2458	2213	3071	0.8223	1.7073
6	2003	5501	5459	5608	0.4503	0.9349
7	2003	7174	7190	7132	0.3541	0.7351
8	2003	6333	6245	6552	0.3854	0.8002
9	2002	4750	4625	5063	0.4988	1.0356
10	2002	1911	1720	2390	1.0567	2.1937
11	2002	130	115	168	15.0322	31.2083
12	2002	246	184	401	6.2978	13.0748
Annual Average Daily Traffic (AADT)				2525		
Annual Average Weekday Traffic (AAWDT)				2456		
Annual Average Weekend Traffic (AAWET)				2700		
Seasonal Average Daily Traffic (SADT)				5243		

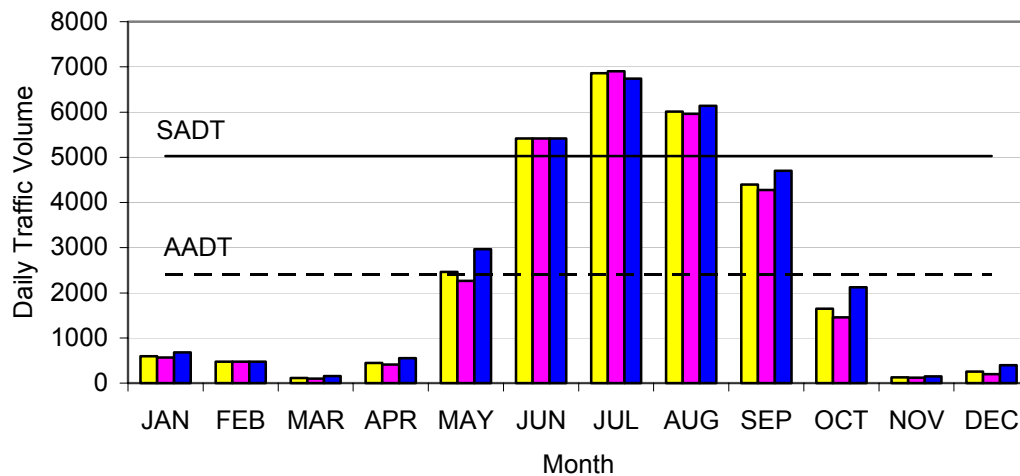


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

YELLOWSTONE NATIONAL PARK

Station: 27012 Grand Loop Rd. - Madison Jct. To So. Jct. Firehold Lake Dr.

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	597	563	682	3.5215	7.3754
2	2003	475	476	473	5.0775	10.6342
3	2003	115	100	154	15.5952	32.6623
4	2003	449	408	551	4.3587	9.1289
5	2003	2465	2264	2968	0.8092	1.6947
6	2003	5418	5418	5419	0.4432	0.9282
7	2003	6859	6906	6740	0.3563	0.7463
8	2003	6011	5962	6135	0.3915	0.8199
9	2002	4395	4273	4698	0.5112	1.0707
10	2002	1648	1458	2123	1.1313	2.3693
11	2002	130	122	152	15.8004	33.0921
12	2002	258	201	399	6.0192	12.6065
Annual Average Daily Traffic (AADT)				2402		
Annual Average Weekday Traffic (AAWDT)				2346		
Annual Average Weekend Traffic (AAWET)				2541		
Seasonal Average Daily Traffic (SADT)				5030		

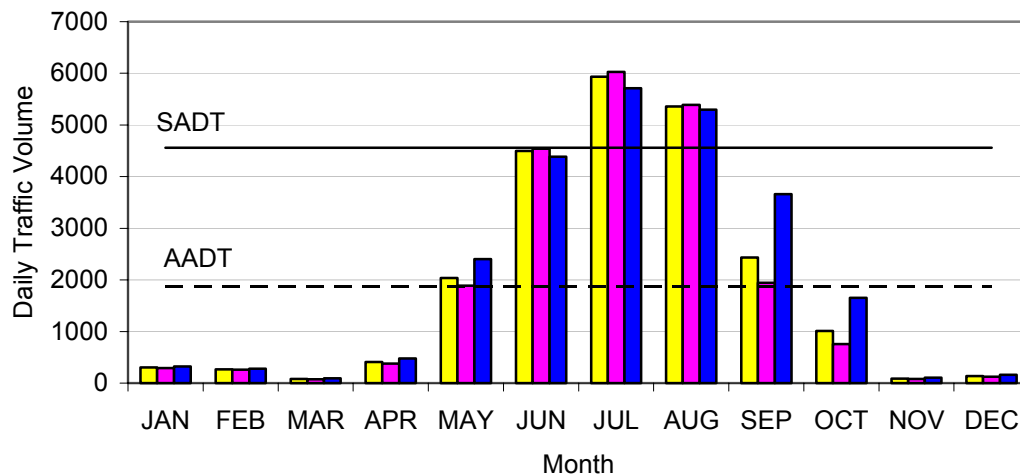


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

YELLOWSTONE NATIONAL PARK

Station: 27013 Grand Loop Rd. - Norris Junction to Madison Junction

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	302	293	325	5.7826	14.0215
2	2003	264	258	278	6.7602	16.3921
3	2003	80	74	94	19.9929	48.4787
4	2003	408	379	480	3.9153	9.4938
5	2003	2035	1888	2404	0.7818	1.8956
6	2003	4495	4538	4387	0.4284	1.0388
7	2003	5937	6026	5712	0.3290	0.7978
8	2003	5361	5388	5294	0.3550	0.8608
9	2002	2436	1947	3661	0.5133	1.2447
10	2002	1011	754	1652	1.1376	2.7585
11	2002	89	83	104	18.0705	43.8173
12	2002	134	124	159	11.8197	28.6604
Annual Average Daily Traffic (AADT)				1879		
Annual Average Weekday Traffic (AAWDT)				1813		
Annual Average Weekend Traffic (AAWET)				2046		
Seasonal Average Daily Traffic (SADT)				4557		

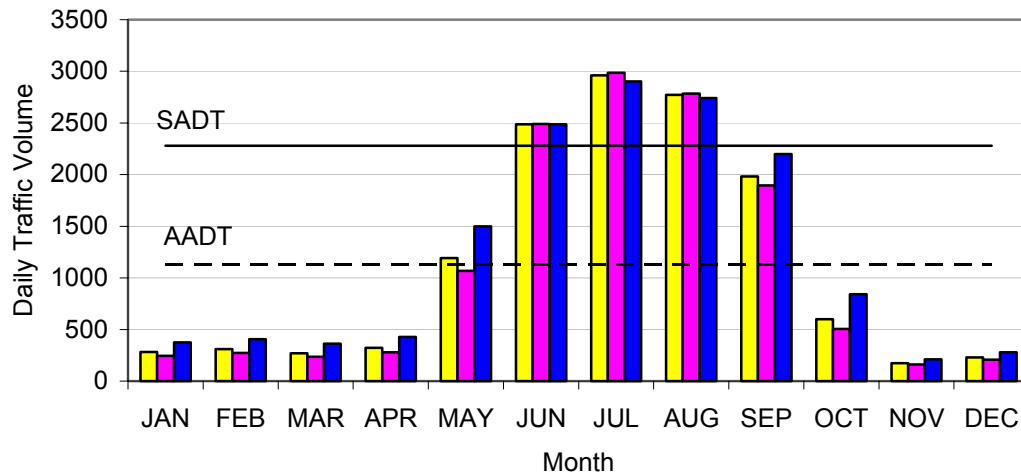


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

YELLOWSTONE NATIONAL PARK

Station: 27021 Grand Loop Rds. - Blacktail Plateau Drive to Mammoth

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	281	244	375	3.0184	6.0773
2	2003	310	272	407	2.7811	5.5995
3	2003	271	235	361	3.1355	6.3130
4	2003	322	279	428	2.6447	5.3248
5	2003	1192	1068	1500	0.7546	1.5193
6	2003	2488	2489	2488	0.4550	0.9160
7	2003	2962	2985	2902	0.3900	0.7853
8	2003	2772	2785	2740	0.4131	0.8318
9	2002	1982	1895	2198	0.5150	1.0369
10	2002	600	504	841	1.3459	2.7099
11	2002	175	161	211	5.3645	10.8009
12	2002	228	207	280	4.0426	8.1393
Annual Average Daily Traffic (AADT)				1132		
Annual Average Weekday Traffic (AAWDT)				1094		
Annual Average Weekend Traffic (AAWET)				1228		
Seasonal Average Daily Traffic (SADT)				2279		

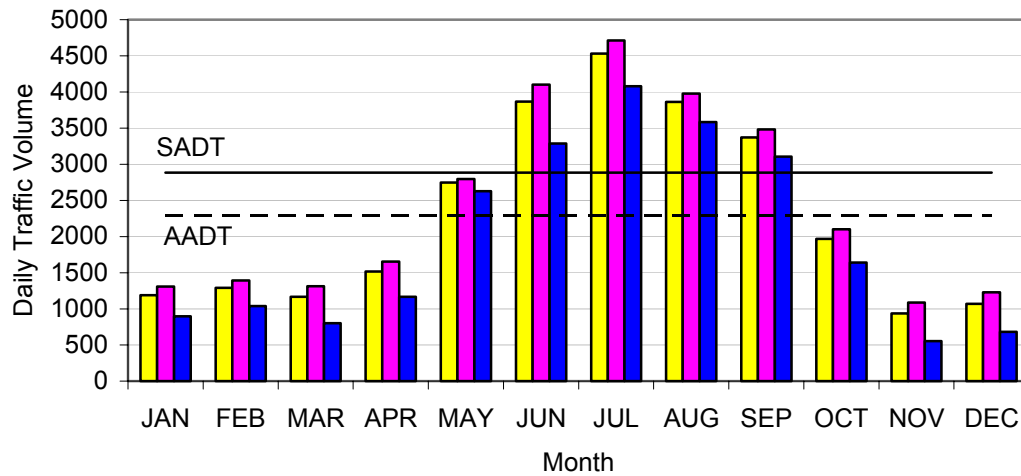


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

YELLOWSTONE NATIONAL PARK

Station: 27022 North Entrance Rd. - Mammoth to North Entrance

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	2001	1191	1308	898	1.7540	2.2041
2	2001	1293	1395	1039	1.6446	2.0667
3	2001	1167	1314	801	1.7460	2.1941
4	2001	1516	1655	1168	1.3863	1.7420
5	2001	2748	2797	2627	0.8203	1.0307
6	2000	3867	4100	3286	0.5596	0.7032
7	2000	4533	4714	4081	0.4867	0.6116
8	2000	3865	3978	3585	0.5767	0.7247
9	2000	3373	3481	3104	0.6591	0.8282
10	2000	1970	2102	1640	1.0915	1.3716
11	2000	936	1090	551	2.1048	2.6450
12	2000	1072	1228	683	1.8683	2.3477
Annual Average Daily Traffic (AADT)				2294		
Annual Average Weekday Traffic (AAWDT)				2430		
Annual Average Weekend Traffic (AAWET)				1955		
Seasonal Average Daily Traffic (SADT)				2883		

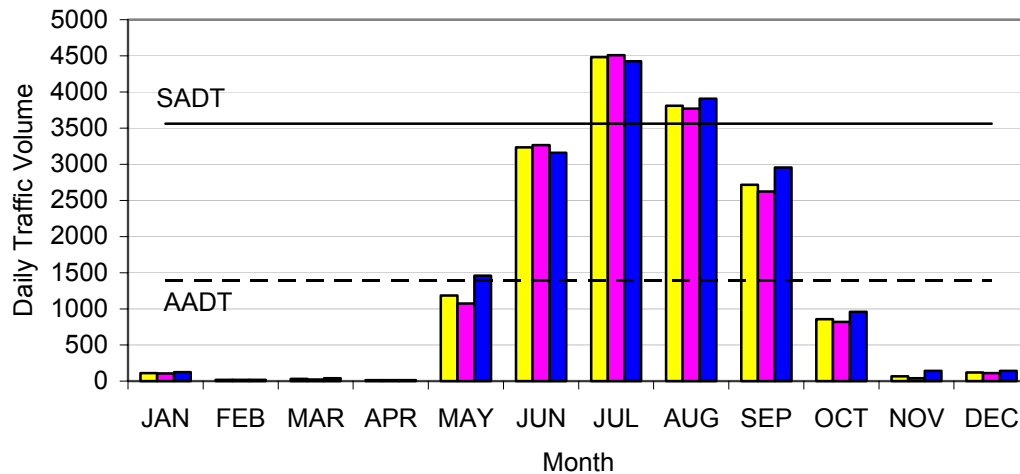


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

YELLOWSTONE NATIONAL PARK

Station: 27030 South Entrance Rd. - Lewis Lake Road to South Park Entrance

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	2002	110	104	124	11.1882	28.7258
2	2002	16	16	16	86.7083	222.6250
3	2001	29	23	42	33.0317	84.8095
4	2001	14	15	12	115.6111	296.8333
5	2001	1186	1076	1462	0.9489	2.4364
6	2001	3235	3265	3161	0.4389	1.1269
7	2001	4483	4507	4423	0.3137	0.8053
8	2001	3810	3771	3909	0.3549	0.9112
9	2001	2719	2625	2954	0.4696	1.2058
10	2001	858	818	960	1.4451	3.7104
11	2001	68	39	140	9.9095	25.4429
12	2001	120	112	141	9.8392	25.2624
Annual Average Daily Traffic (AADT)				1387		
Annual Average Weekday Traffic (AAWDT)				1364		
Annual Average Weekend Traffic (AAWET)				1445		
Seasonal Average Daily Traffic (SADT)				3562		

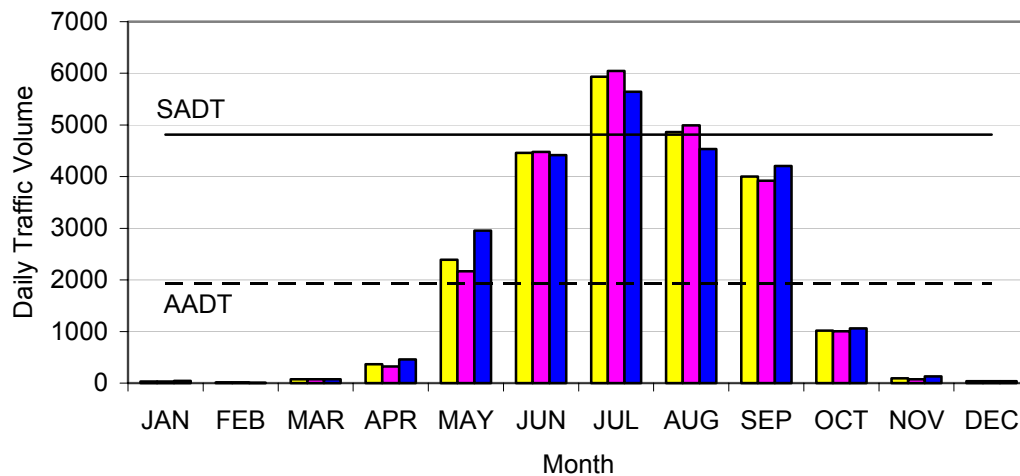


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

YELLOWSTONE NATIONAL PARK

Station: 27041 Grand Loop Rd. - Gull Point Drive to Fishing Bridge Jct.

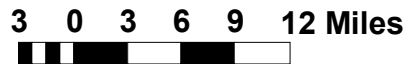
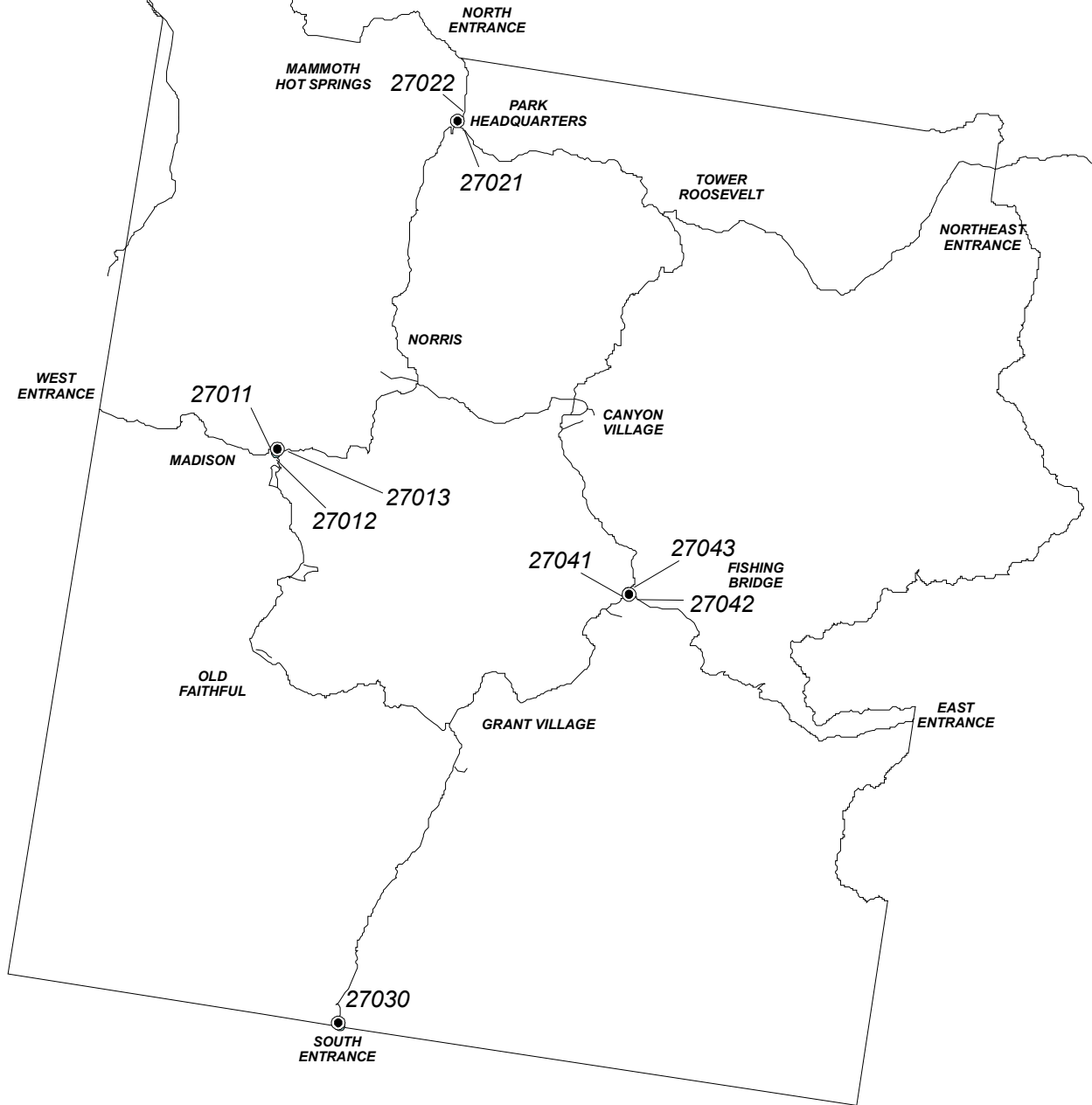
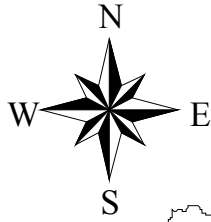
Month	Year	Average Day of Month (MADT)	Average Weekday of Month (MAWDT)	Average Weekend Day of Month (MAWET)	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	2002	34	31	42	46.1806	114.6190
2	2002	10	10	9	215.5093	534.8889
3	2001	74	74	74	26.2106	65.0541
4	2001	363	325	457	4.2442	10.5339
5	2001	2391	2166	2955	0.6564	1.6291
6	2001	4461	4479	4414	0.4394	1.0906
7	2001	5933	6049	5644	0.3437	0.8529
8	2001	4861	4991	4534	0.4278	1.0618
9	2001	4002	3920	4208	0.4609	1.1440
10	2001	1018	1001	1061	1.8281	4.5372
11	2001	90	74	129	15.0355	37.3178
12	2001	38	38	36	53.8773	133.7222
Annual Average Daily Traffic (AADT)				1940		
Annual Average Weekday Traffic (AAWDT)				1930		
Annual Average Weekend Traffic (AAWET)				1964		
Seasonal Average Daily Traffic (SADT)				4814		

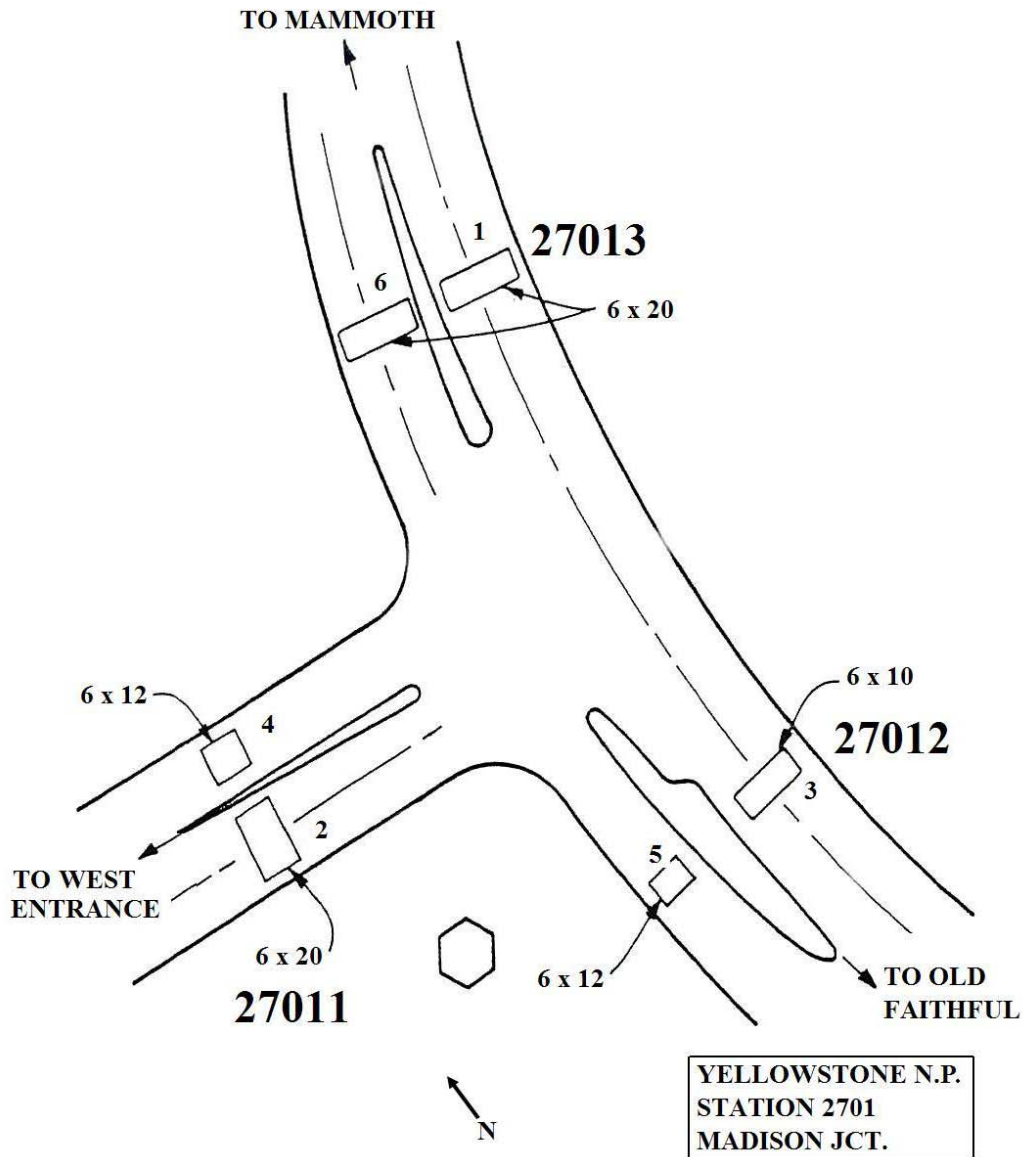


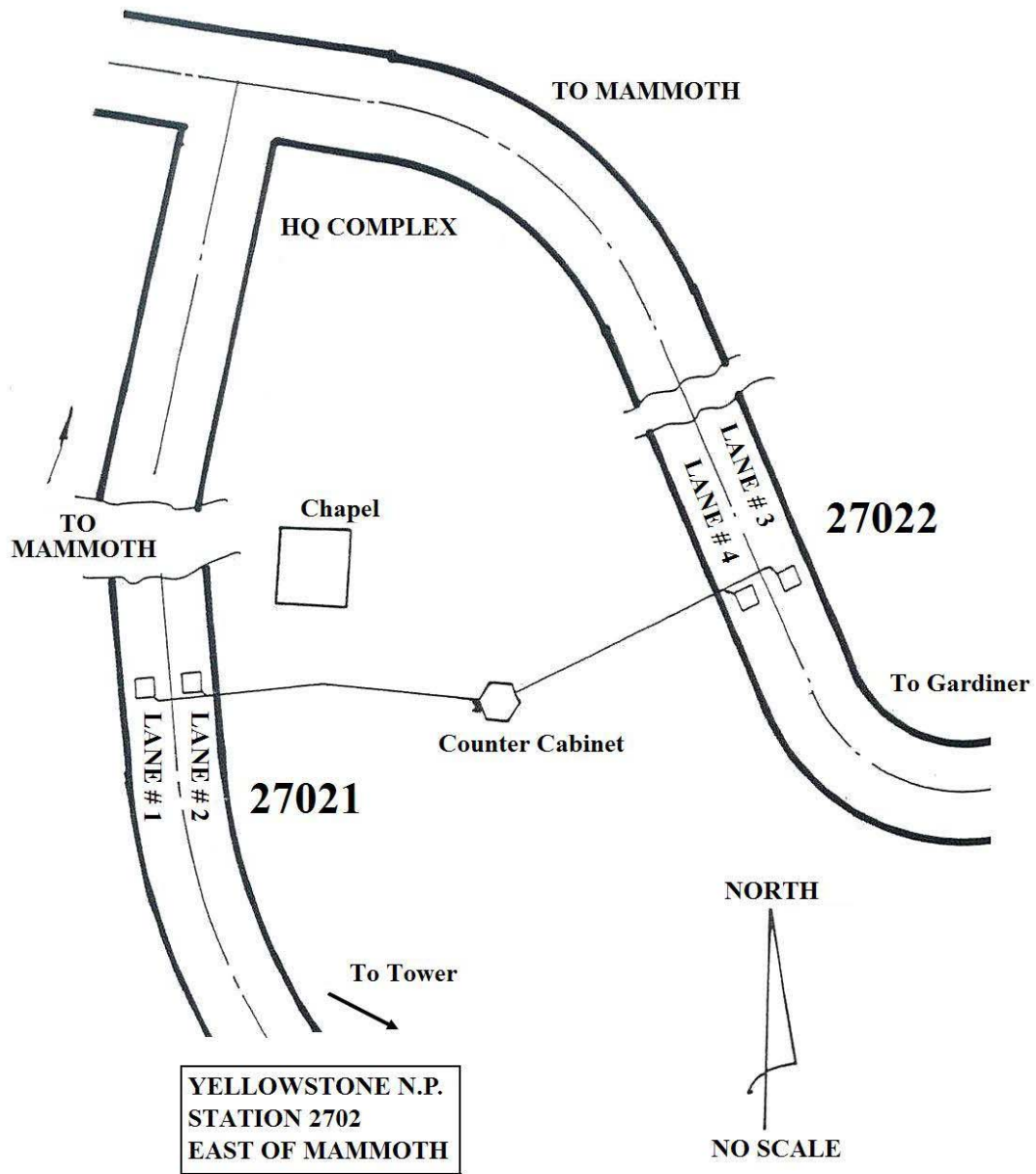
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

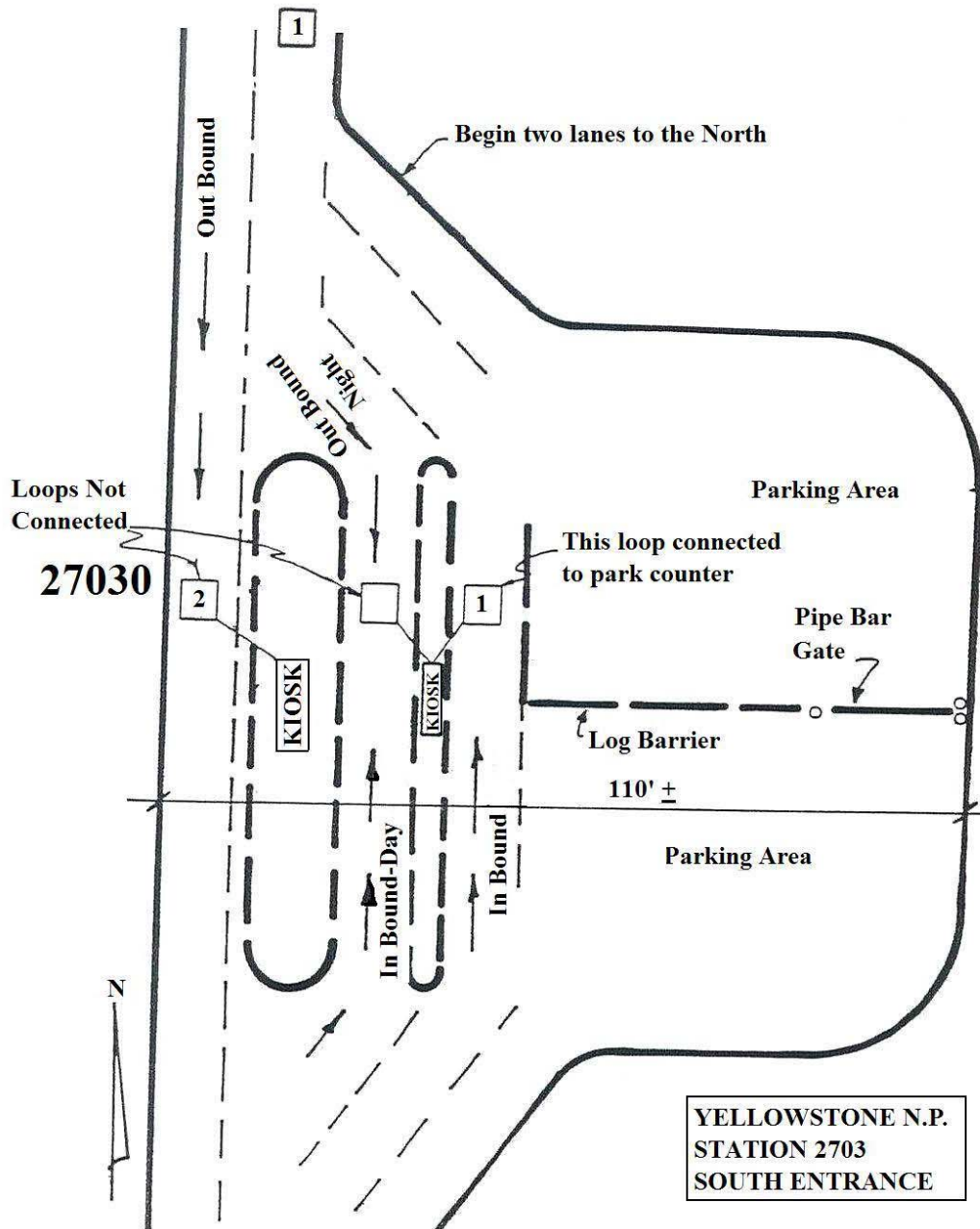
Yellowstone National Park

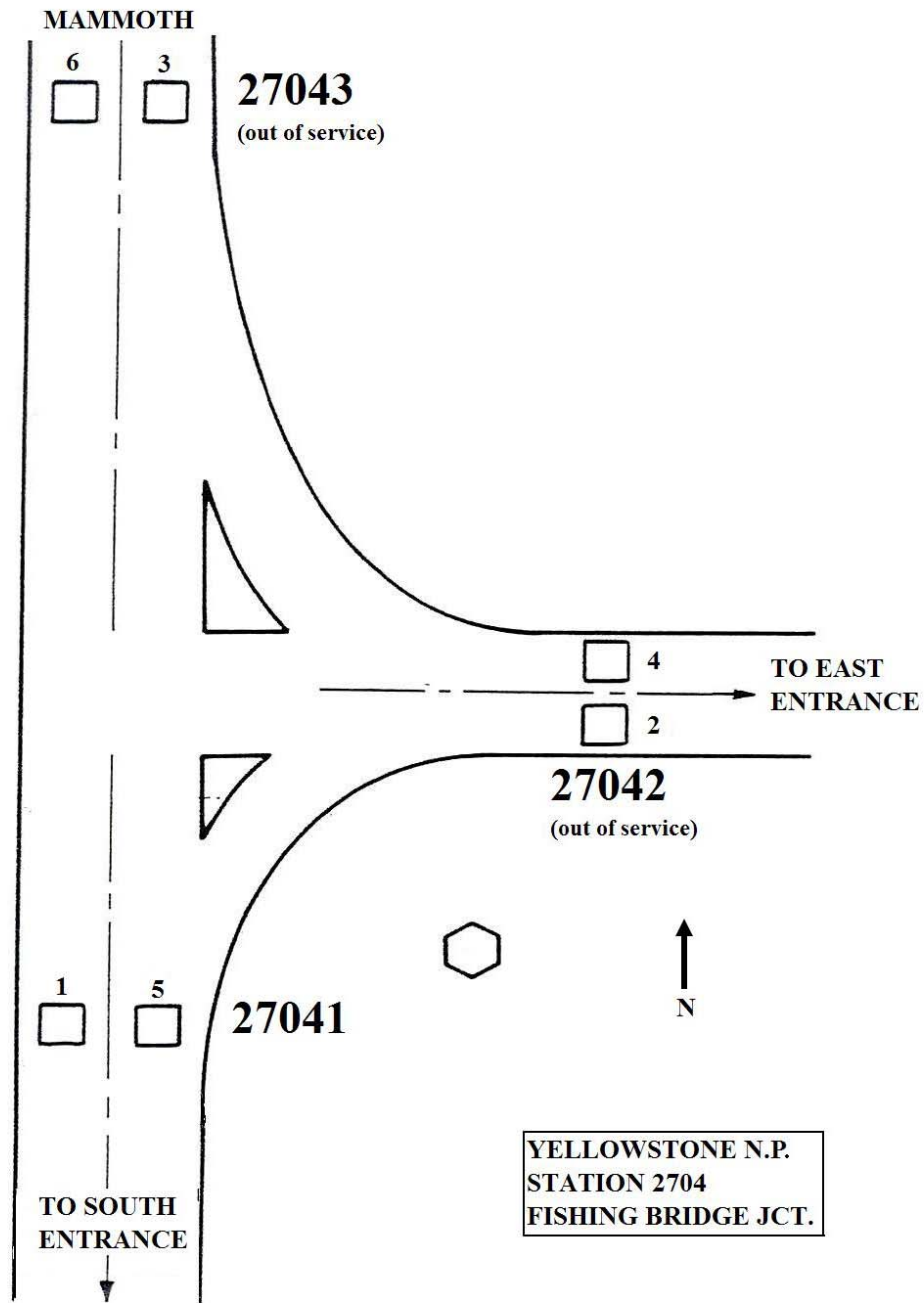
Wyoming
U.S. Department of Interior
NATIONAL PARK SERVICE











Yosemite National Park Traffic Package



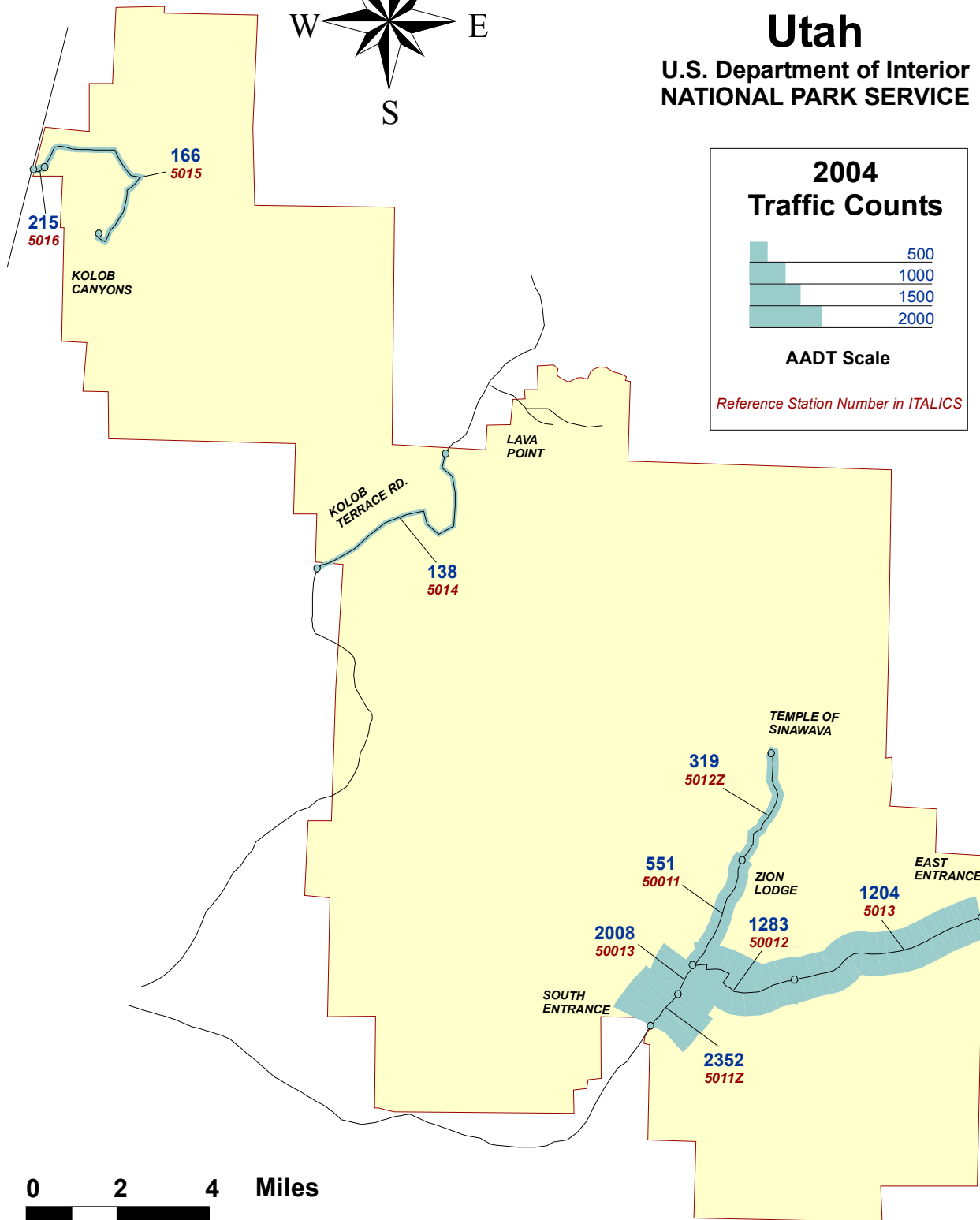
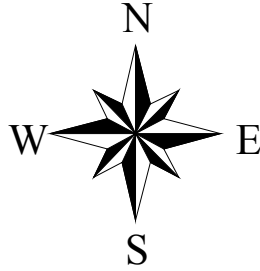
The package will be provided as an addendum at a later date.

Zion National Park Traffic Package



Zion National Park Utah

U.S. Department of Interior
NATIONAL PARK SERVICE



ZION NATIONAL PARK

TRAFFIC TRENDS SUMMARY

Rt. No.	Roadway Segment	Sta. ID.	Length	AADT				VMT(1000's)			
				1988	1991	1994	2004	1988	1991	1994	2004
10	South to East Hwy.- South Entrance to Visitor Center	5011Z	0.57	1159	2028	2943	2352	241	422	612	489
10	South to East Hwy.- Visitor Center to Valley Floor Hwy.	50013	0.88	2082	2698	2972	2008	669	867	955	645
10	South to East Hwy.- Valley Floor Hwy. to Canyon Overlook	50012	4.58	1267	1447	1696	1283	2118	2419	2835	2145
10	South to East Hwy.- Canyon Overlook to East Entrance	5013	5.97	1159	1291	1547	1204	2526	2813	3371	2624
11*	Valley Floor Hwy.- South to East Hwy. to Zion Lodge	50011	2.58	1657	2137	2518	551	1560	2012	2371	519
11*	Valley Floor Hwy.- Zion Lodge to End of Road	5012Z	3.75	1203	1509	1968	319	1647	2065	2694	437
12	Kolob Terrace Rd.- West Park Bdry. to North Park Bdry.	5014	9.85	118	169	193	138	424	608	694	496
13**	Kolob Canyons Rd.- Interstate Hwy. 15 to Visitor Center	5016	0.04	162	239	323	215	2	3	5	3
13**	Kolob Canyons Rd.- Visitor Center to Viewpoint	5015	5.24	162	239	210	166	310	457	402	317
Note: AADT -- Annual Average Daily Traffic								9187	11210	13537	7357

VMT-- Vehicle Miles of Travel

* Low 2004 AADT values are due to restriction of road use to shuttle buses only from April to October.

** Route names and mileages were updated from the 1994 report

ZION NATIONAL PARK

2004 TRAFFIC VOLUME SUMMARY

Sta. ID.	STATION LOCATION	BEGIN DATE	24 HR. VOL.	SEAS. FACT.	ANN. FACT.	SADT	AADT	REF. STA.
50011	Valley Floor Hwy.- South to East Hwy. to Zion Lodge	9/28/2004	823	0.9726	0.66908	800	551	50011
50012	South to East Hwy.- Valley Floor Hwy. to Canyon Overlook	9/28/2004	2003	0.9241	0.64042	1851	1283	50012
50013	South to East Hwy.- Visitor Center to Valley Floor Hwy.	9/28/2004	2944	0.9839	0.6821	2897	2008	50013
5011Z	South to East Hwy.- South Entrance to Visitor Center	9/28/2004	3516	0.9726	0.66908	3420	2352	50011
5012Z	Valley Floor Hwy.- Zion Lodge to End of Road	9/28/2004	477	0.9726	0.66908	464	319	50011
5013	South to East Hwy.- Canyon Overlook to East Entrance	9/28/2004	1880	0.9241	0.64042	1737	1204	50012
5014	Kolob Terrace Rd.- West Park Bdry. to North Park Bdry.	9/28/2004	206	0.9726	0.66908	200	138	50011
5016	Kolob Canyons Rd.- Interstate Hwy. 15 to Visitor Center	9/28/2004	322	0.9726	0.66908	313	215	50011
5015	Kolob Canyons Rd.- Visitor Center to Viewpoint	9/28/2004	248	0.9726	0.66908	241	166	50011

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.

ZION NATIONAL PARK

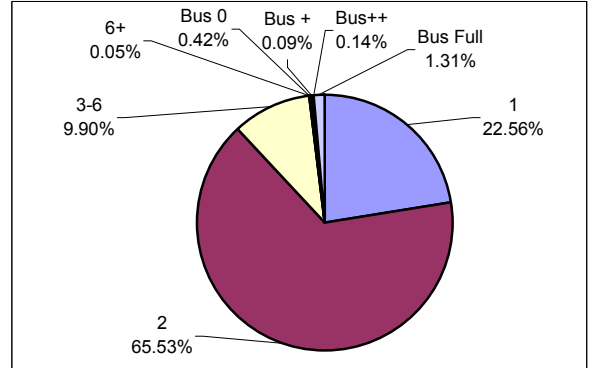
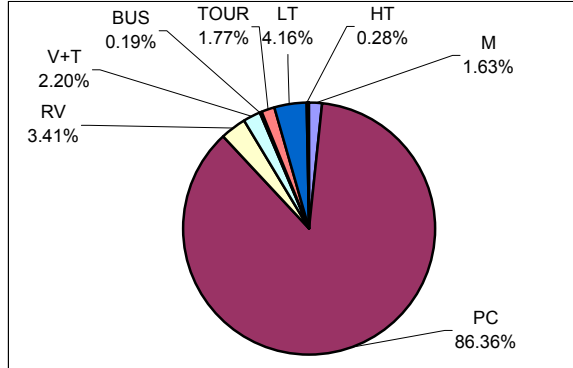
2004 TRAFFIC COMPOSITION SUMMARY

Vehicle Classification

Vehicle Occupancy

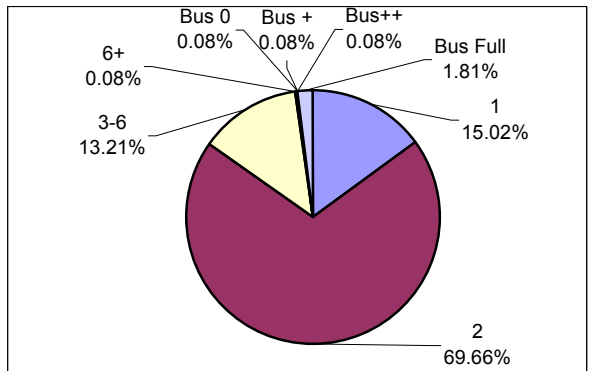
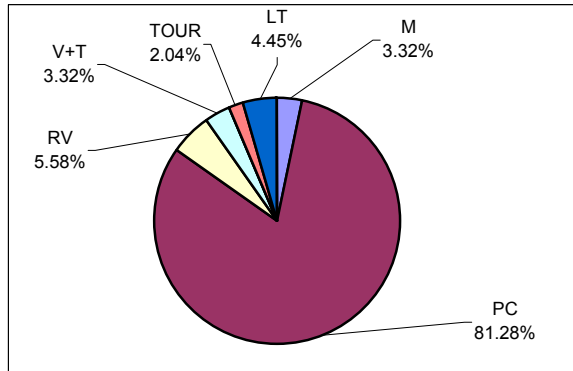
Location: STATION 5011Z

Location: STATION 5011Z



Location: STATION 5013

Location: STATION 5013



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

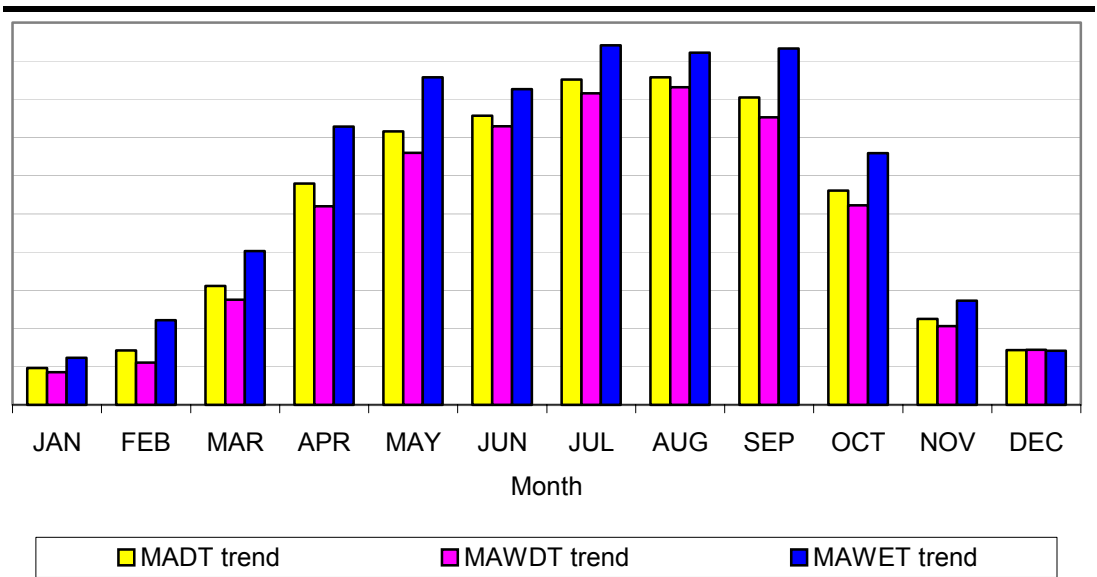
Note: Vehicle Classifications and Vehicle Occupancy values represented by 0% (No Occurrence) are not shown on the charts.

ZION NATIONAL PARK

Station: 50011 Valley Floor Hwy.- South to East Hwy. to Zion Lodge

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	5.8826	8.5514
2	1993-1994	4.5447	6.6065
3	1993-1994	1.8284	2.6580
4	1993-1994	0.9691	1.4088
5	1993-1994	0.7639	1.1104
6	1993-1994	0.6907	1.0041
7	1993-1994	0.6177	0.8979
8	1993-1994	0.6058	0.8807
9	1993-1994	0.6691	0.9726
10	1993-1994	0.9643	1.4018
11	1993-1994	2.4420	3.5500
12	1993-1994	3.5066	5.0975

See Section 2.1.5



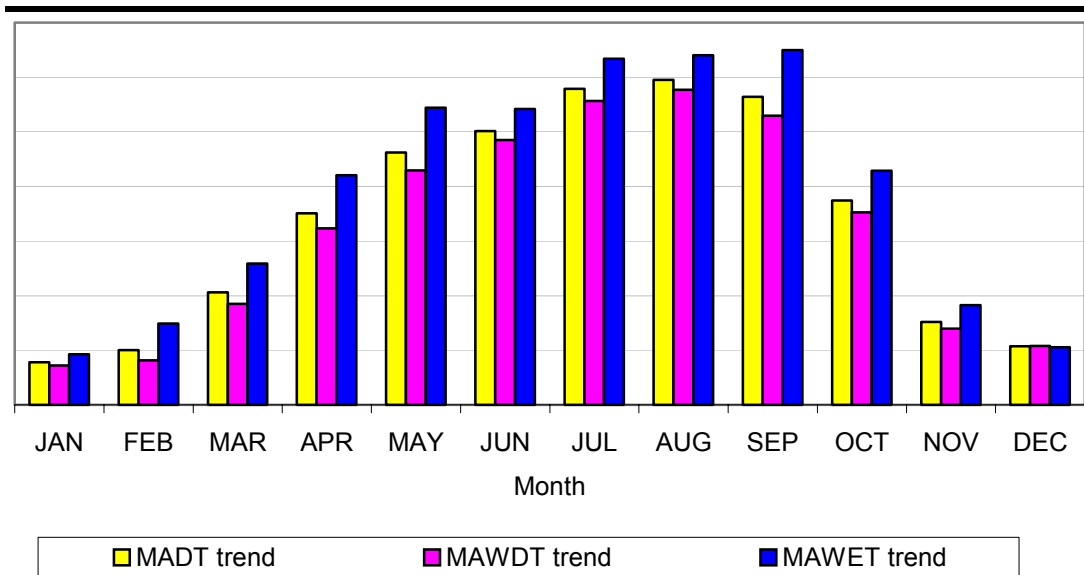
Note: AADTF is used to adjust coverage traffic volumes to AADTF volume.
 SADTF is used to adjust coverage traffic volumes to SADTF volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

ZION NATIONAL PARK

Station: 50012 South to East Hwy.- Valley Floor Hwy. to Canyon Overlook

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	4.6976	6.7784
2	1993-1994	4.1769	6.0271
3	1993-1994	1.8314	2.6425
4	1993-1994	1.0488	1.5133
5	1993-1994	0.7902	1.1403
6	1993-1994	0.6996	1.0095
7	1993-1994	0.6094	0.8793
8	1993-1994	0.5880	0.8485
9	1993-1994	0.6404	0.9241
10	1993-1994	0.9614	1.3872
11	1993-1994	2.4296	3.5057
12	1993-1994	3.1404	4.5315

See Section 2.1.5



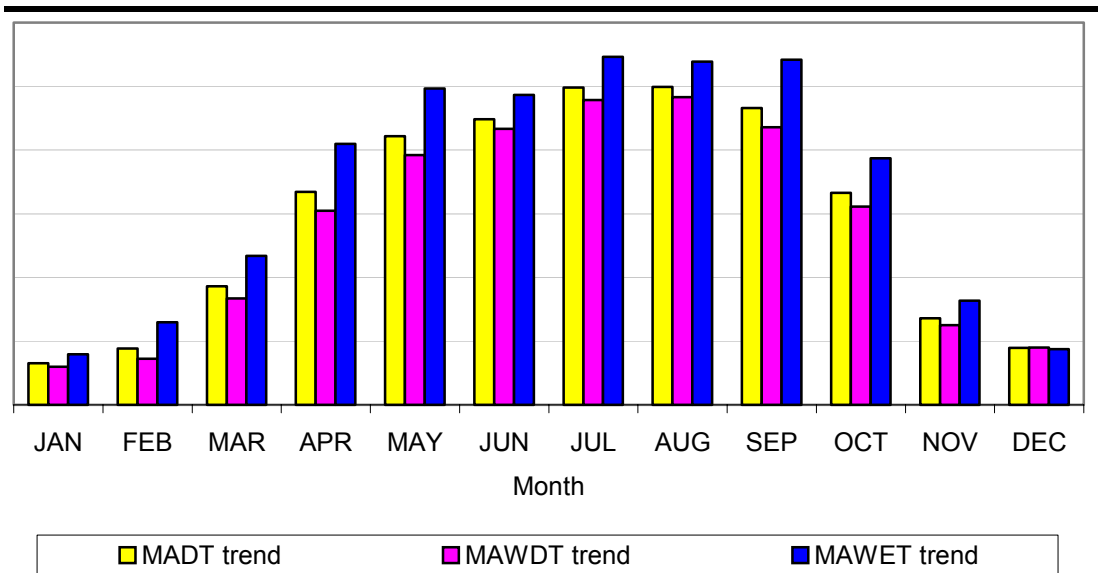
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.
 SADTF is used to adjust coverage traffic volumes to SADT volume.
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

ZION NATIONAL PARK

Station: 50013 South to East Hwy.- Visitor Center to Valley Floor Hwy.

Month	Year	Annual Average Daily Traffic Factor (AADTF)	Seasonal Average Daily Traffic Factor (SADTF)
1	1993-1994	4.9615	7.1569
2	1993-1994	4.1162	5.9377
3	1993-1994	1.7785	2.5655
4	1993-1994	0.9757	1.4074
5	1993-1994	0.7583	1.0939
6	1993-1994	0.6859	0.9894
7	1993-1994	0.6208	0.8956
8	1993-1994	0.6153	0.8876
9	1993-1994	0.6821	0.9839
10	1993-1994	0.9553	1.3780
11	1993-1994	2.3756	3.4269
12	1993-1994	3.3058	4.7686

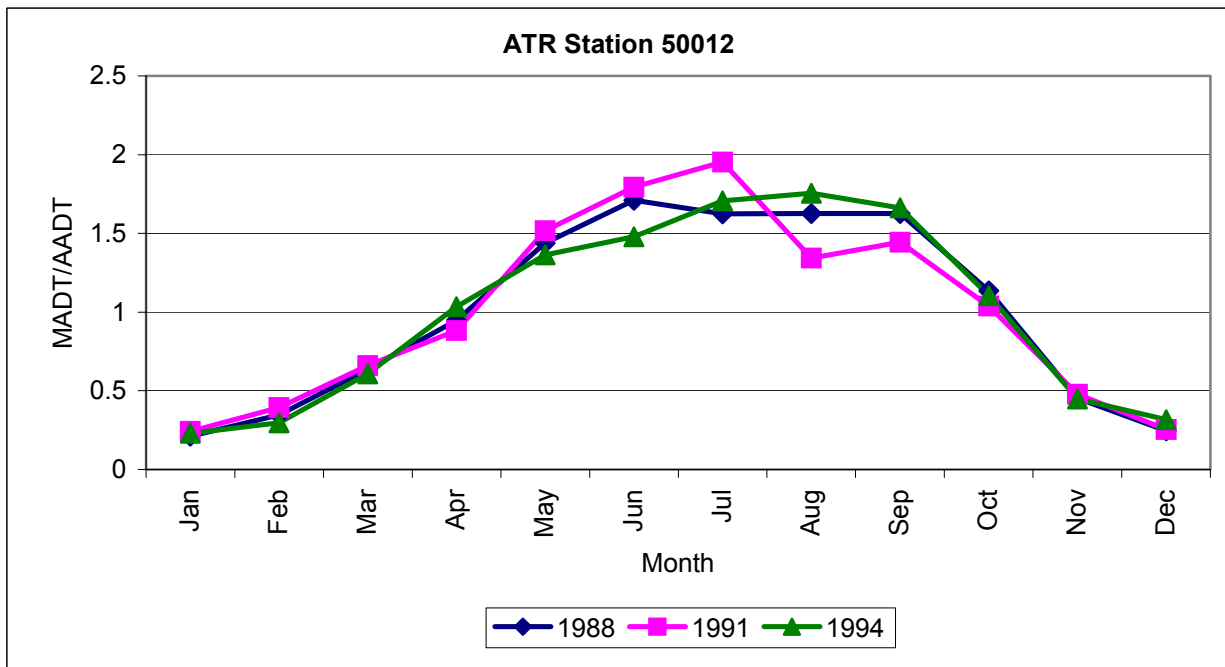
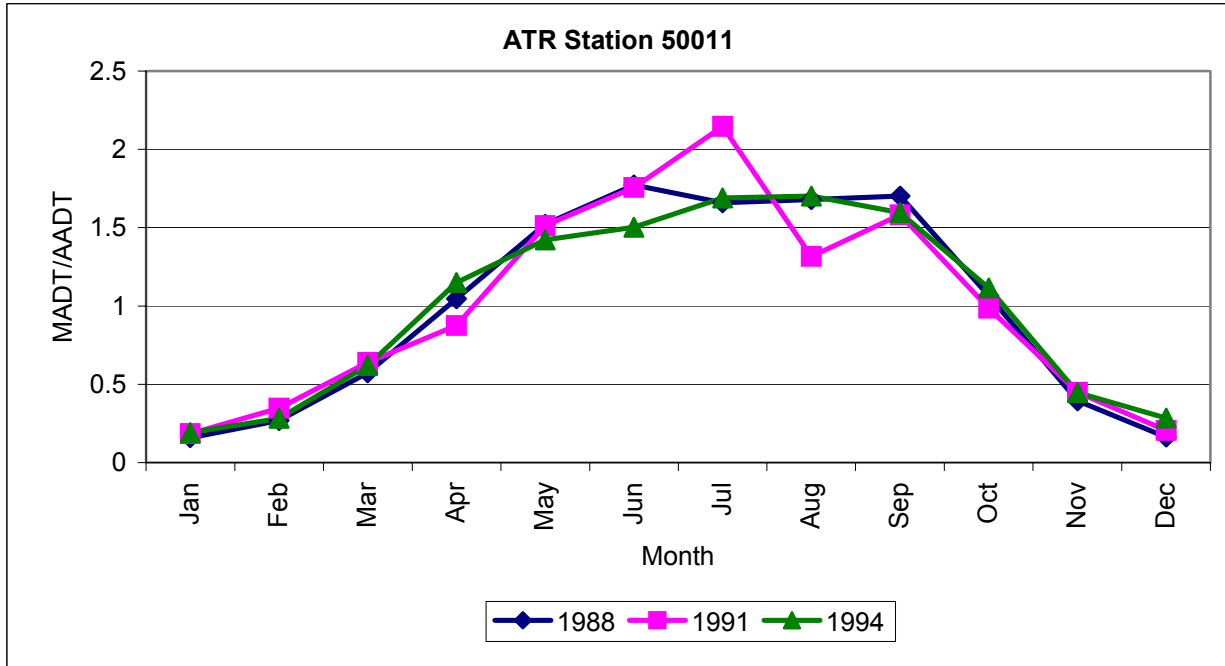
See Section 2.1.5



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.

ZION NATIONAL PARK

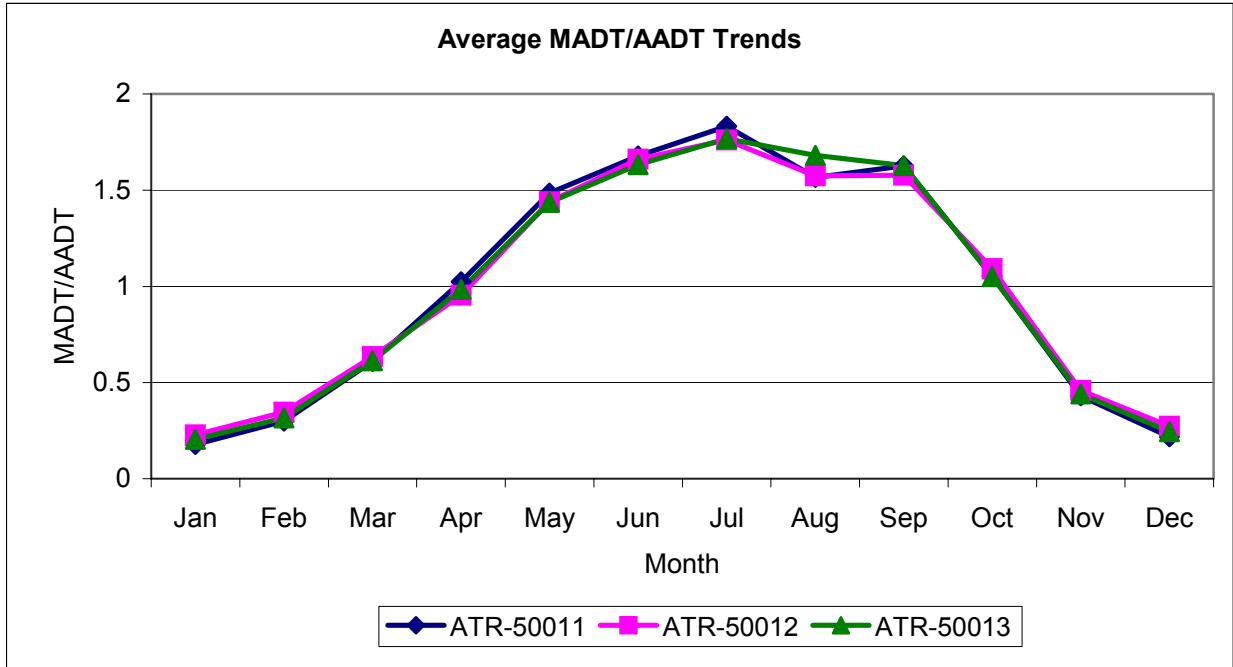
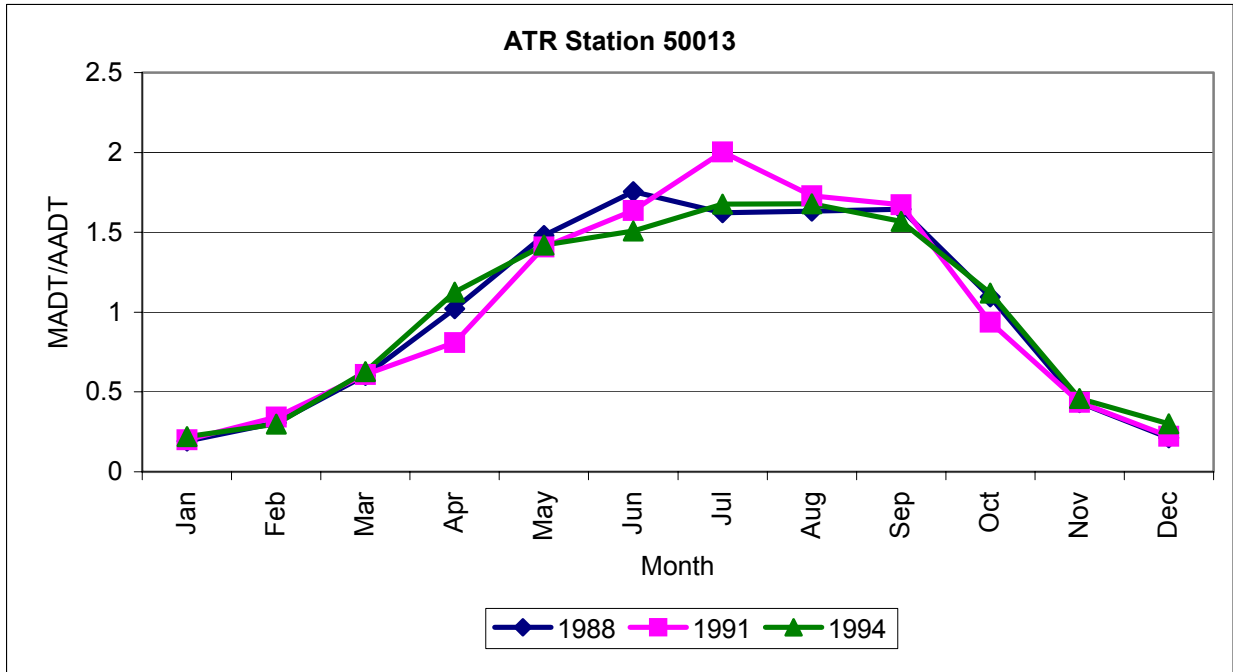
HISTORICAL SEASONAL TRAFFIC TREND SUMMARY



Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

ZION NATIONAL PARK

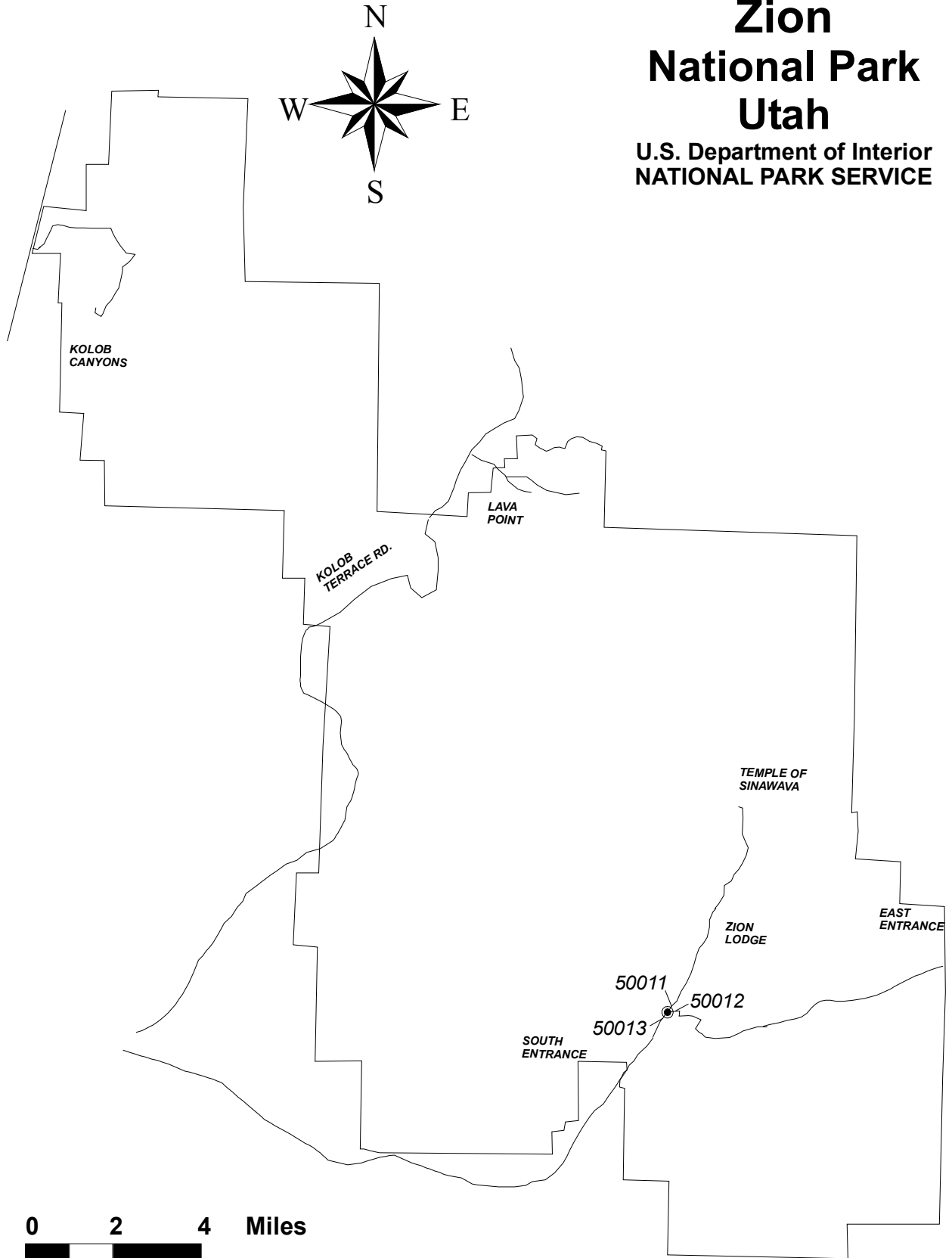
HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

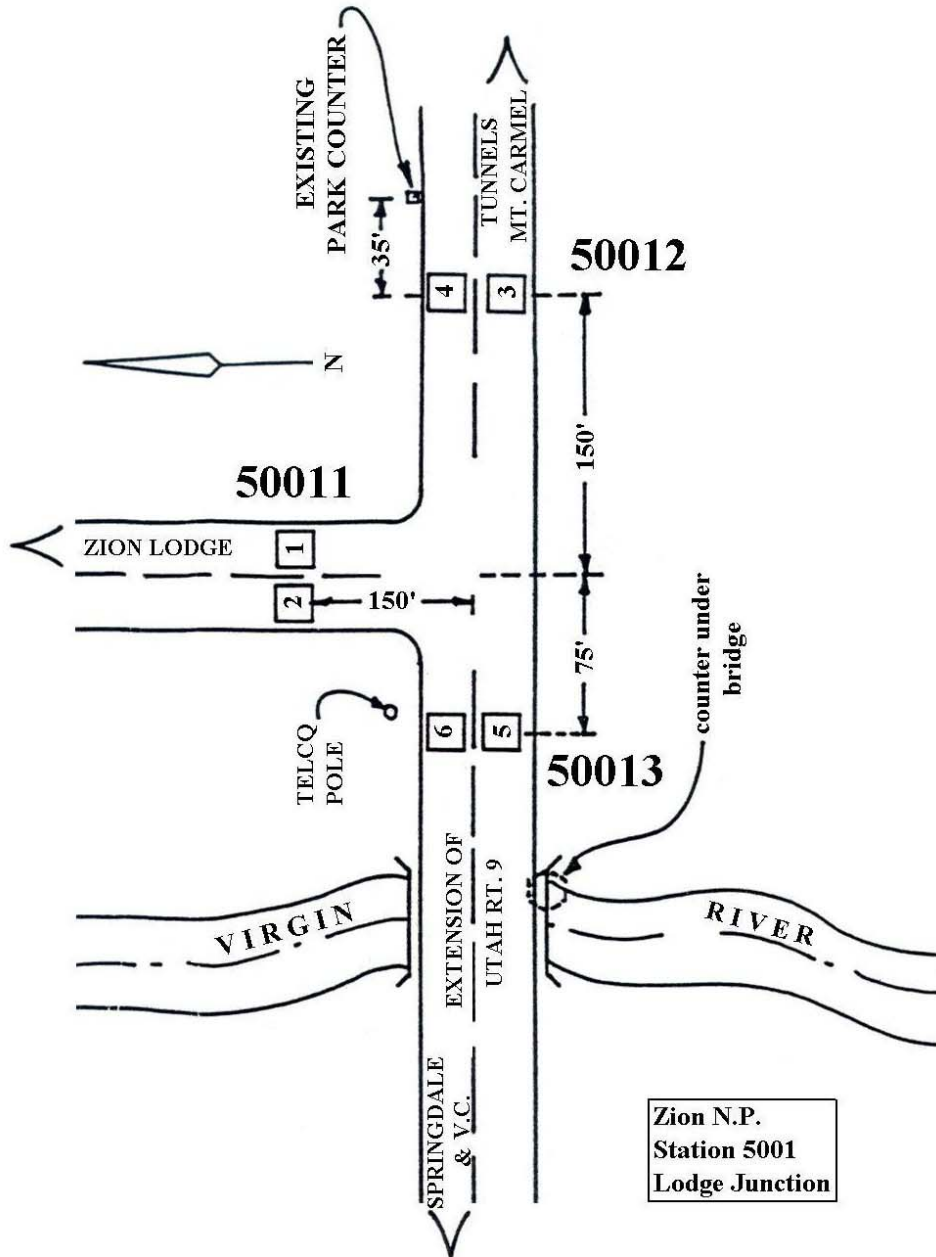


Note: MADT -- Monthly Average Daily Traffic
AADT -- Annual Average Daily Traffic

Zion National Park Utah

U.S. Department of Interior
NATIONAL PARK SERVICE





Appendix A

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A.1 Traffic Database Overview

Traffic data and accompanying traffic statistics for each logical traffic segment for the parks included in the traffic monitoring study are included in the Traffic Database. Only data that passed the QC process and were retained based on some analytical basis are included in the database.

Traffic database file **Traffic_database.mdb**, included on the CD, is developed using Microsoft Access®. The data in the database are organized in the following tables:

- NPS_PERM_HOURLY_TRAFFIC
- NPS_COVERAGE_HOURLY_TRAFFIC
- NPS_TRAFFIC_SUMMARY
- Count_STA_Summary
- RIP_TRAFFIC_LINKS

The Traffic Database design provides means for linking with other NPS/FHWA databases, such as the Road Inventory Program (RIP) and Geographic Information System (GIS) databases. Database table description, structure, and individual data elements included in each table are discussed in details in the following sections.

A.2 Table NPS_PERM_HOURLY_TRAFFIC

This table is designed to house hourly traffic count data obtained from permanent ATR traffic stations and represents the lowest level of ATR traffic data storage. The data are used to establish seasonal traffic patterns and to compute traffic summary statistics.

NPS_PERM_HOURLY_TRAFFIC Table Design

Field Name	Data Element Description
ALPHACODE	NPS assigned alphabetic code usually the first 4 letters of the park name with one word names and the first 2 letters of the first 2 words of the park name of those parks with more than one word names.
COUNT_STA	Identification number of the station where counts are taken
LANE_ID	Lane code
DIRECTION	Direction of traffic code: 0=North, 1=East, 2=South, 3=West
YEAR	Year of the count
MONTH	Calendar month of the count
DAY_OF_MONTH	Day of the week code: 0=Sunday, 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday
DAY_OF_WEEK	Day of the month of the count
VOL_HOUR_0	Traffic volume during hour from 0 AM to 1 AM
VOL_HOUR_1	Traffic volume during hour from 1 AM to 2 AM
VOL_HOUR_2	Traffic volume during hour from 2 AM to 3 AM
VOL_HOUR_3	Traffic volume during hour from 3 AM to 4 AM
VOL_HOUR_4	Traffic volume during hour from 4 AM to 5 AM
VOL_HOUR_5	Traffic volume during hour from 5 AM to 6 AM
VOL_HOUR_6	Traffic volume during hour from 6 AM to 7 AM
VOL_HOUR_7	Traffic volume during hour from 7 AM to 8 AM
VOL_HOUR_8	Traffic volume during hour from 8 AM to 9 AM
VOL_HOUR_9	Traffic volume during hour from 9 AM to 10 AM
VOL_HOUR_10	Traffic volume during hour from 10 AM to 11 AM
VOL_HOUR_11	Traffic volume during hour from 11 AM to 12 PM
VOL_HOUR_12	Traffic volume during hour from 12 PM to 1 PM
VOL_HOUR_13	Traffic volume during hour from 1 PM to 2 PM
VOL_HOUR_14	Traffic volume during hour from 2 PM to 3 PM
VOL_HOUR_15	Traffic volume during hour from 3 PM to 4 PM
VOL_HOUR_16	Traffic volume during hour from 4 PM to 5 PM
VOL_HOUR_17	Traffic volume during hour from 5 PM to 6 PM
VOL_HOUR_18	Traffic volume during hour from 6 PM to 7 PM
VOL_HOUR_19	Traffic volume during hour from 7 PM to 8 PM
VOL_HOUR_20	Traffic volume during hour from 8 PM to 9 PM
VOL_HOUR_21	Traffic volume during hour from 9 PM to 10 PM
VOL_HOUR_22	Traffic volume during hour from 10 PM to 11 PM
VOL_HOUR_23	Traffic volume during hour from 11 PM to 0 AM
VOL_DAILY	Total daily traffic volume

A.3 Table NPS_COVERAGE_HOURLY_TRAFFIC

This table is designed to house hourly traffic count data obtained from 48-hour coverage count studies. The data are used to compute traffic summary statistics based on short-duration counts and seasonal patterns established for the referenced permanent stations.

NPS_COVERAGE_HOURLY_TRAFFIC Table Design

Field Name	Data Dictionary Description
ALPHACODE	NPS assigned alphabetic code usually the first 4 letters of the park name with one word names and the first 2 letters of the first 2 words of the park name of those parks with more than one word names.
COUNT_STA	Identification number of the station where counts are taken
DIRECTION	Direction of traffic code: 0=North, 1=East, 2=South, 3=West
START_TIME	Coverage count start time
START_DATE	Date when coverage count started
END_TIME	Coverage count end time
END_DATE	Date when coverage count ended
DAY_OF_WEEK	Day of the week code: 0=Sunday, 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday
DAY_OF_MONTH	Day of the month of the count
MONTH	Calendar month of the count
YEAR	Year of the count
VOL_HOUR_0	Traffic volume during hour from 0 AM to 1 AM
VOL_HOUR_1	Traffic volume during hour from 1 AM to 2 AM
VOL_HOUR_2	Traffic volume during hour from 2 AM to 3 AM
VOL_HOUR_3	Traffic volume during hour from 3 AM to 4 AM
VOL_HOUR_4	Traffic volume during hour from 4 AM to 5 AM
VOL_HOUR_5	Traffic volume during hour from 5 AM to 6 AM
VOL_HOUR_6	Traffic volume during hour from 6 AM to 7 AM
VOL_HOUR_7	Traffic volume during hour from 7 AM to 8 AM
VOL_HOUR_8	Traffic volume during hour from 8 AM to 9 AM
VOL_HOUR_9	Traffic volume during hour from 9 AM to 10 AM
VOL_HOUR_10	Traffic volume during hour from 10 AM to 11 AM
VOL_HOUR_11	Traffic volume during hour from 11 AM to 12 PM
VOL_HOUR_12	Traffic volume during hour from 12 PM to 1 PM
VOL_HOUR_13	Traffic volume during hour from 1 PM to 2 PM
VOL_HOUR_14	Traffic volume during hour from 2 PM to 3 PM
VOL_HOUR_15	Traffic volume during hour from 3 PM to 4 PM
VOL_HOUR_16	Traffic volume during hour from 4 PM to 5 PM
VOL_HOUR_17	Traffic volume during hour from 5 PM to 6 PM
VOL_HOUR_18	Traffic volume during hour from 6 PM to 7 PM
VOL_HOUR_19	Traffic volume during hour from 7 PM to 8 PM
VOL_HOUR_20	Traffic volume during hour from 8 PM to 9 PM
VOL_HOUR_21	Traffic volume during hour from 9 PM to 10 PM
VOL_HOUR_22	Traffic volume during hour from 10 PM to 11 PM
VOL_HOUR_23	Traffic volume during hour from 11 PM to 0 AM
VOL_DAILY	Total daily traffic volume

A.4 Table NPS_COUNT_STA_SUMMARY

This table contains the representative traffic statistics for each logical traffic segment for the park road network along with the traffic count station information. Note that the traffic statistics are provided on a “per route” link basis for all traffic lanes and directions combined. In cases where the RIP park routes had a unique number for each direction of traffic, (GWMP routes 1&2 and 6&7 and GATE routes 60&61), two-directional traffic statistics were adjusted to one-directional values based on the directional split distribution computed for 2-way traffic.

NPS_COUNT_STA_SUMMARY Table Design

Field Name	Data Element Description
ALPHACODE	NPS assigned alphabetic code usually the first 4 letters of the park name with one word names and the first 2 letters of the first 2 words of the park name of those parks with more than one word names.
COUNT_STA RTE_NO	Identification number of the station where counts are taken The six character Route Number (9999AA). The letters at the end enables a unique Route Number to be assigned to those routes with the same numeric portion of the Route Number.
AADT	Annual Average Daily Traffic
SADT	Seasonal Average Daily Traffic
AAWDT	Annual Average Weekday Traffic
AAWET	Annual Average Week-end Traffic
ADT_DATE	Year data was collected (If data were collected during several years, year with the highest number of "high" season months)
PEAK_MONTH	Month of Highest Traffic Counts
DHV	Design Hourly Volume
DIR_SPLIT	PDS, the percentage of the design hour traffic traveling in the peak direction
V_CLASS_1	Percentage of ADT in Vehicle Class 1 (Motorcycles)
V_CLASS_2	Percentage of ADT in Vehicle Class 2 (Passenger Cars)
V_CLASS_3	Percentage of ADT in Vehicle Class 3 (Recreational Vehicles / RV)
V_CLASS_4	Percentage of ADT in Vehicle Class 4 (Vehicles Pulling Trailers, RV)
V_CLASS_5	Percentage of ADT in Vehicle Class 5 (Transit Buses)
V_CLASS_6	Percentage of ADT in Vehicle Class 6 (Tour Buses)
V_CLASS_7	Percentage of ADT in Vehicle Class 7 (Light-Duty Trucks)
V_CLASS_8	Percentage of ADT in Vehicle Class 8 (Heavy-Duty Trucks)
O_CLASS_1	Percentage of Vehicles in Vehicle Occupancy Class 1 (1 Single Occupant)
O_CLASS_2	Percentage of Vehicles in Vehicle Occupancy Class 2 (2 Occupants)
O_CLASS_3	Percentage of Vehicles in Vehicle Occupancy Class 3 (3-6 Car Load)
O_CLASS_4	Percentage of Vehicles in Vehicle Occupancy Class 4 (More than six non-Bus vehicle load)
O_CLASS_5	Percentage of Vehicles in Vehicle Occupancy Class 5 (No Passenger Bus)
O_CLASS_6	Percentage of Vehicles in Vehicle Occupancy Class 6 (Few Passenger Bus)
O_CLASS_7	Percentage of Vehicles in Vehicle Occupancy Class 7 (Semi-Loaded Passenger Bus)
O_CLASS_8	Percentage of Vehicles in Vehicle Occupancy Class 8 (Fully Loaded Passenger Bus)
COUNT_TYPE	Count type: P= FOITSC permanent count station, S= factored sample count
REFERNCE_STA	Identification number of the station used to expand short-duration counts
COUNT_DUR	Duration of count Cycle in days (Hours/24)

Field Name	Data Element Description
GPS_LAT	Count station latitude
GPS_LONG	Count station longitude
GPS_ELEV	Count station elevation (this item is not collected as a part of NPS Traffic project but keep field for future use.)
GPS_MODE	Mode of GPS device
COMMENT	General Comments

A.5 Table NPS_TRAFFIC_SUMMARY

This table contains the representative traffic statistical values for each 0.02 mi segments obtained from PMS_20 table for the park roads included in the traffic monitoring study.

NPS_TRAFFIC_SUMMARY Table Design

Field Name	Data Element Description
ALPHACODE	NPS assigned alphabetic code usually the first 4 letters of the park name with one word names and the first 2 letters of the first 2 words of the park name of those parks with more than one word names.
ELEM_ID	Alpha Code + RTE_NO + Lane Number + Mileage (e.g., ACAD-9999AA-1-999.99). Lane Number indicates which lane the data refers to. Lane 1 being the far left lane, usually.
RTE_NO	The six character Route Number (9999AA). The letters at the end enables a unique Route Number to be assigned to those routes with the same numeric portion of the Route Number.
AADT	Annual Average Daily Traffic
SADT	Seasonal Average Daily Traffic
AAWDT	Annual Average Weekday Traffic
AAWET	Annual Average Week-end Traffic
ADT_DATE	Year data was collected (If data were collected during several years, year with the highest number of "high" season months)
PEAK_MONTH	Month of Highest Traffic Counts
DHV	Design Hourly Volume
DIR_SPLIT	PDS, the percentage of the design hour traffic traveling in the peak direction
V_CLASS_1	Percentage of ADT in Vehicle Class 1 (Motorcycles)
V_CLASS_2	Percentage of ADT in Vehicle Class 2 (Passenger Cars)
V_CLASS_3	Percentage of ADT in Vehicle Class 3 (Recreational Vehicles / RV)
V_CLASS_4	Percentage of ADT in Vehicle Class 4 (Vehicles Pulling Trailers, RV)
V_CLASS_5	Percentage of ADT in Vehicle Class 5 (Transit Buses)
V_CLASS_6	Percentage of ADT in Vehicle Class 6 (Tour Buses)
V_CLASS_7	Percentage of ADT in Vehicle Class 7 (Light-Duty Trucks)
V_CLASS_8	Percentage of ADT in Vehicle Class 8 (Heavy-Duty Trucks)
O_CLASS_1	Percentage of Vehicles in Vehicle Occupancy Class 1 (1 Single Occupant)
O_CLASS_2	Percentage of Vehicles in Vehicle Occupancy Class 2 (2 Occupants)
O_CLASS_3	Percentage of Vehicles in Vehicle Occupancy Class 3 (3-6 Car load)
O_CLASS_4	Percentage of Vehicles in Vehicle Occupancy Class 4 (More than six non-Bus vehicle load)
O_CLASS_5	Percentage of Vehicles in Vehicle Occupancy Class 5 (No Passenger Bus)

O_CLASS_6	Percentage of Vehicles in Vehicle Occupancy Class 6 (Few Passenger Bus)
O_CLASS_7	Percentage of Vehicles in Vehicle Occupancy Class 7 (Semi-Loaded Passenger Bus)
O_CLASS_8	Percentage of Vehicles in Vehicle Occupancy Class 8 (Fully Loaded Passenger Bus)
COUNT_TYPE	Count type: P= FOTSC permanent count station, S= factored sample count
COUNT_STA	Identification number of the station where counts are taken
REFERNCE_STA	Identification number of the station used to expand short-duration counts
COUNT_DUR	Duration of count Cycle in days (Hours/24)
GPS_LAT	Count station latitude
GPS_LONG	Count station longitude
GPS_ELEV	Count station elevation (this item is not collected as a part of NPS Traffic project but keep field for future use.)
GPS_MODE	Mode of GPS device
COMMENT	General Comments

A.6 Table RIP_TRAFFIC_LINKS

The purpose of this table is to correlate the RIP road segments with the traffic count stations. Using this table, the RIP road segments could be linked with the traffic counter station ID and corresponding traffic information included in the traffic database tables. The linkage is based on ROUTE_IDENT, BEG_MP, and END_MP fields that uniquely identify traffic segments.

RIP_TRAFFIC_LINKS Table Design

Field Name	Data Dictionary Description
PARK_ALPHA	NPS assigned alphabetic code usually the first 4 letters of the park name with one word names and the first 2 letters of the first 2 words of the park name of those parks with more than one word names.
RIP_CYCLE	The number associated with the Cycle Number in which the data was collected.
COUNT_STA	Identification number of the station where counts are taken.
RTE_NO	The six character Route Number (9999AA). The letters at the end enables a unique Route Number to be assigned to those routes with the same numeric portion of the Route Number.
ROUTE_IDENT	The Park's Alpha Code + "-" + RTE_NO
RTE_NAME	The Route's official name from the Route ID list.
BEG_MP	Traffic Link beginning milepost.
END_MP	Traffic Link ending milepost.
FROM_DESC	Traffic Link beginning description.
TO_DESC	Traffic Link ending description.
COMMENT	General comments.

**Traffic database CD is not provided
with this copy of the report.**

**For further information please contact
Park Operation and Education
Facility Management Division**