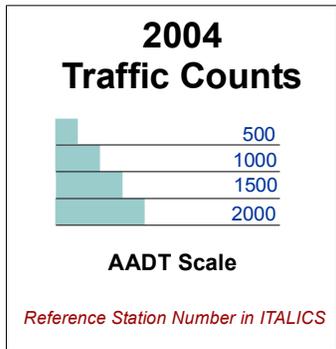
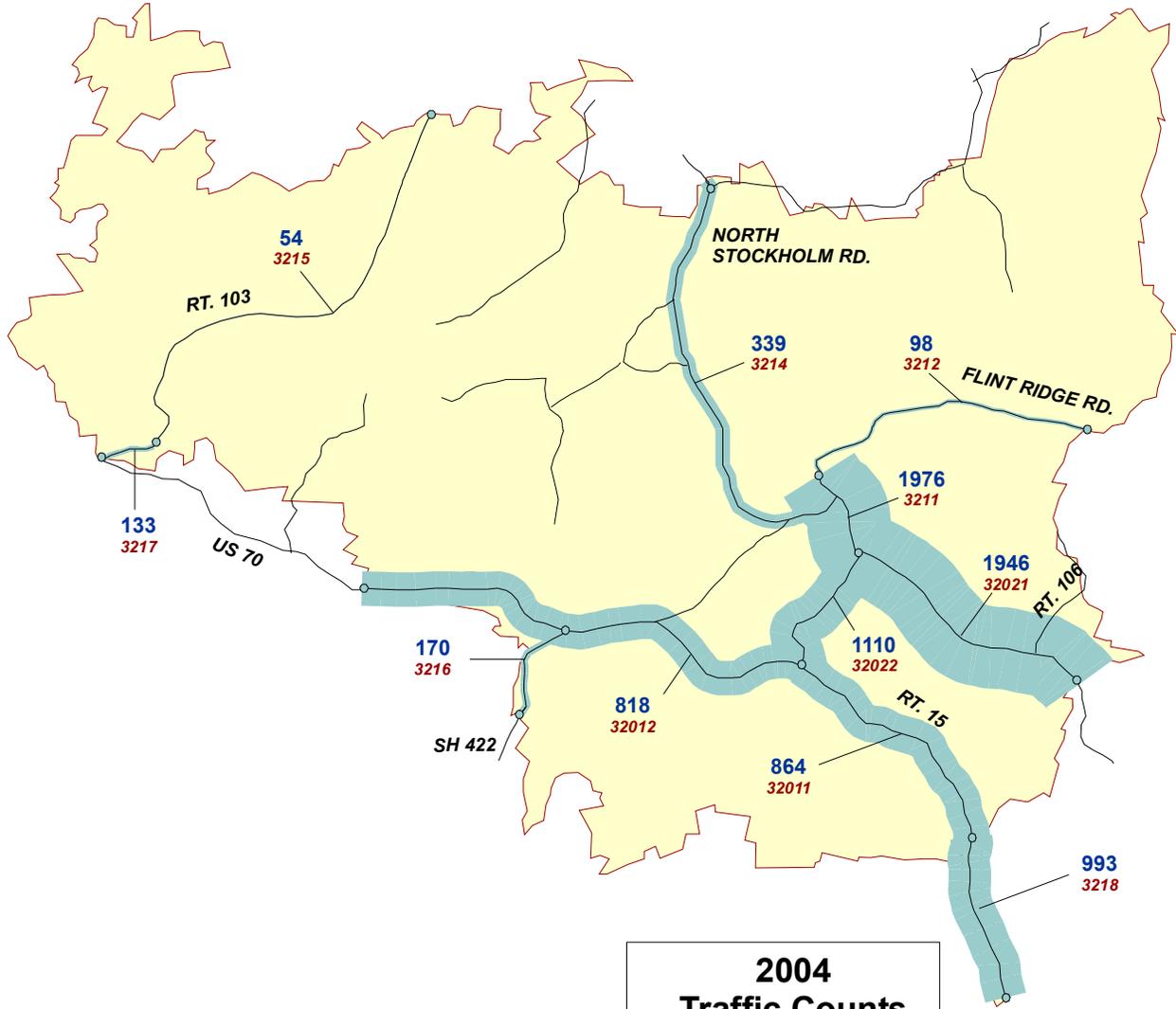
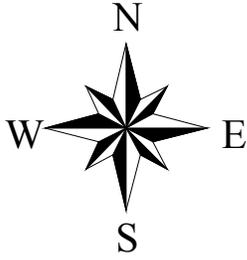


## Mammoth Cave National Park Traffic Package



# 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**

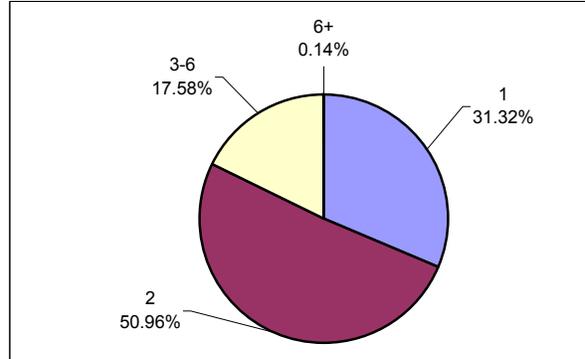
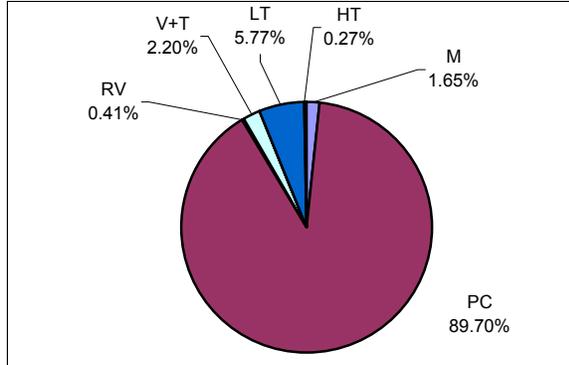
**2004 TRAFFIC COMPOSITION SUMMARY**

**Vehicle Classification**

**Vehicle Occupancy**

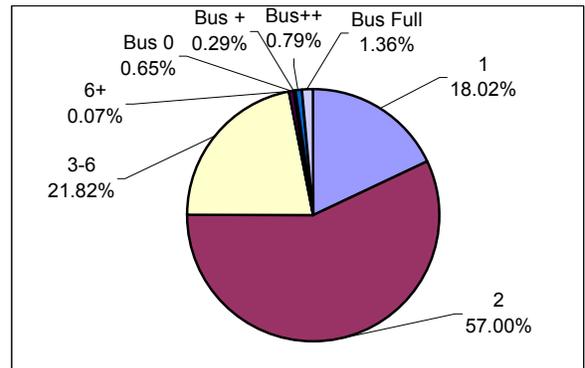
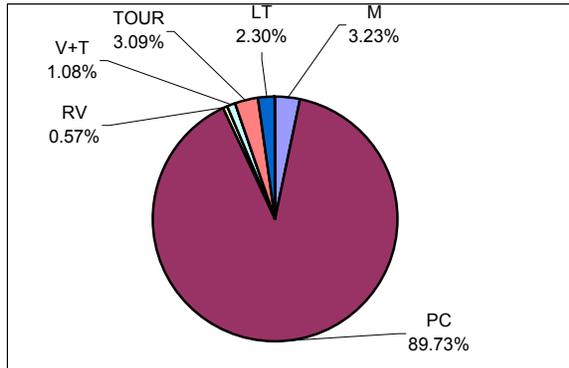
Location: STATION 32011

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                |

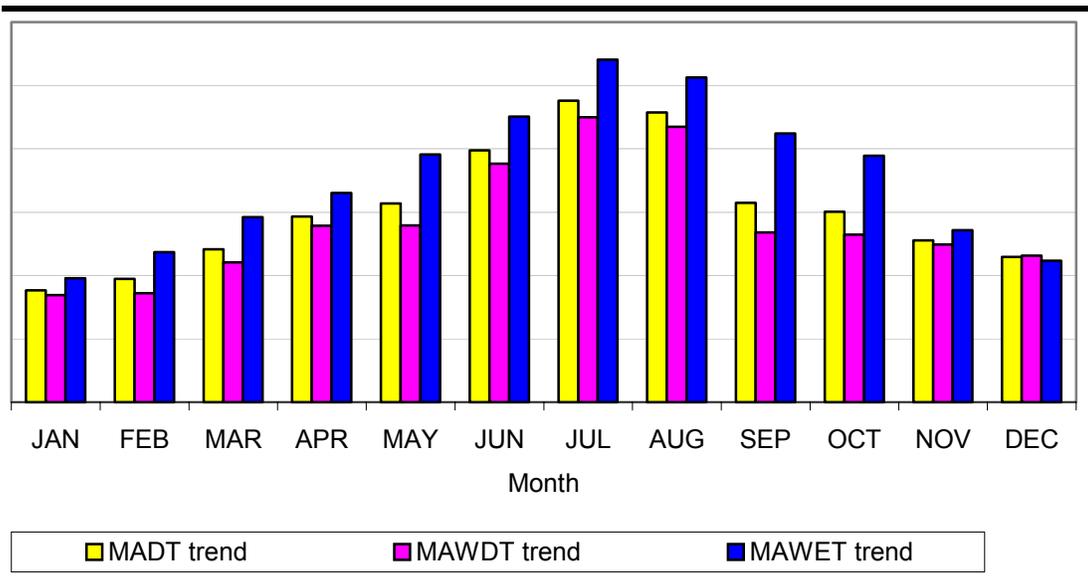
Note: Vehicle Classifications and Vehicle Occupancy values represented by 0% (No Occurrence) are not shown on the charts.

**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



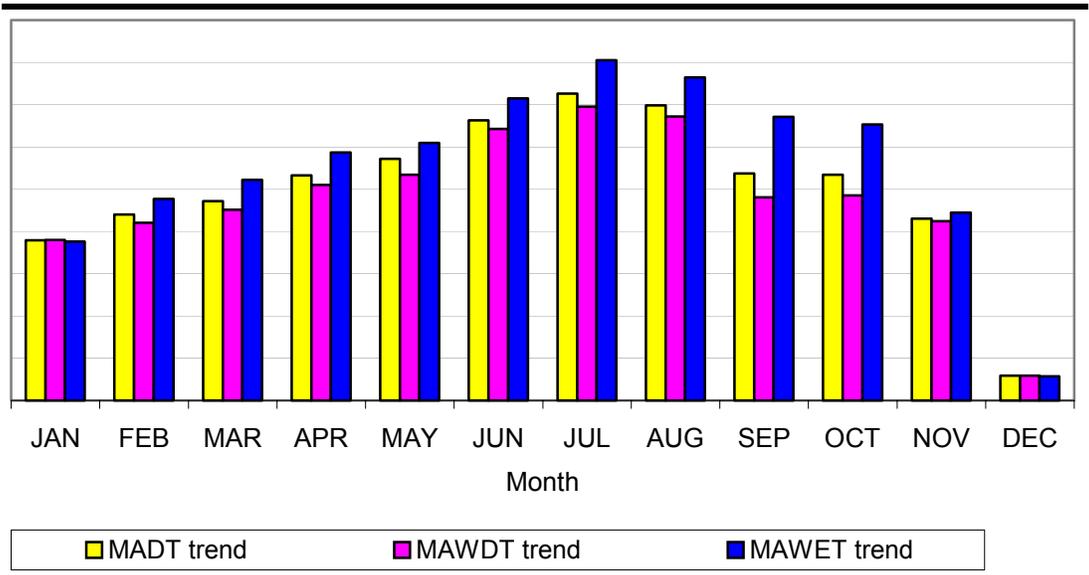
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
SADTF is used to adjust coverage traffic volumes to SADT volume.  
SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

**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



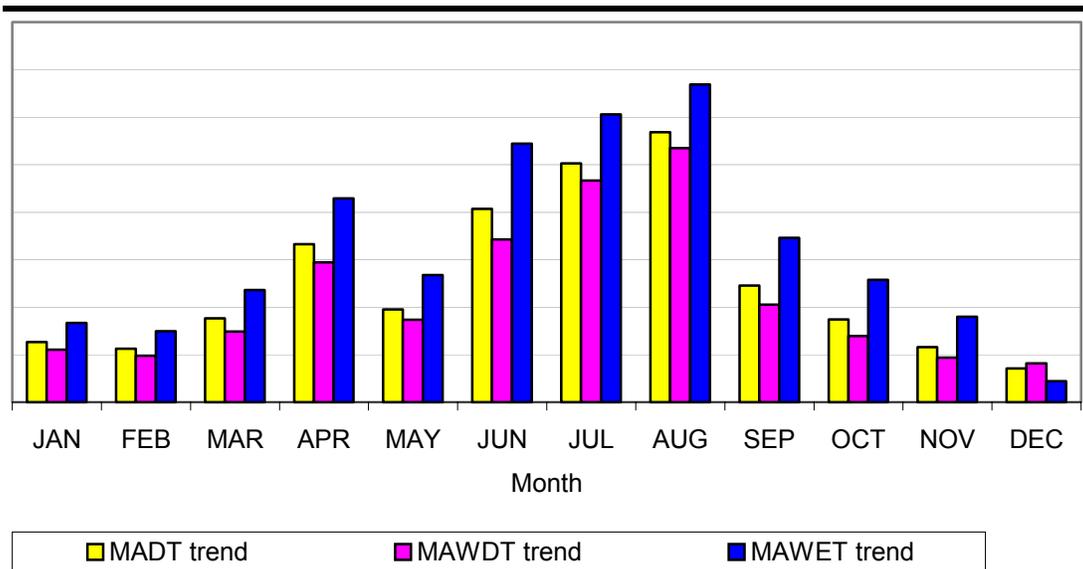
Note: AADTF is used to adjust coverage traffic volumes to AADTF volume.  
 SADTF is used to adjust coverage traffic volumes to SADTF volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

**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



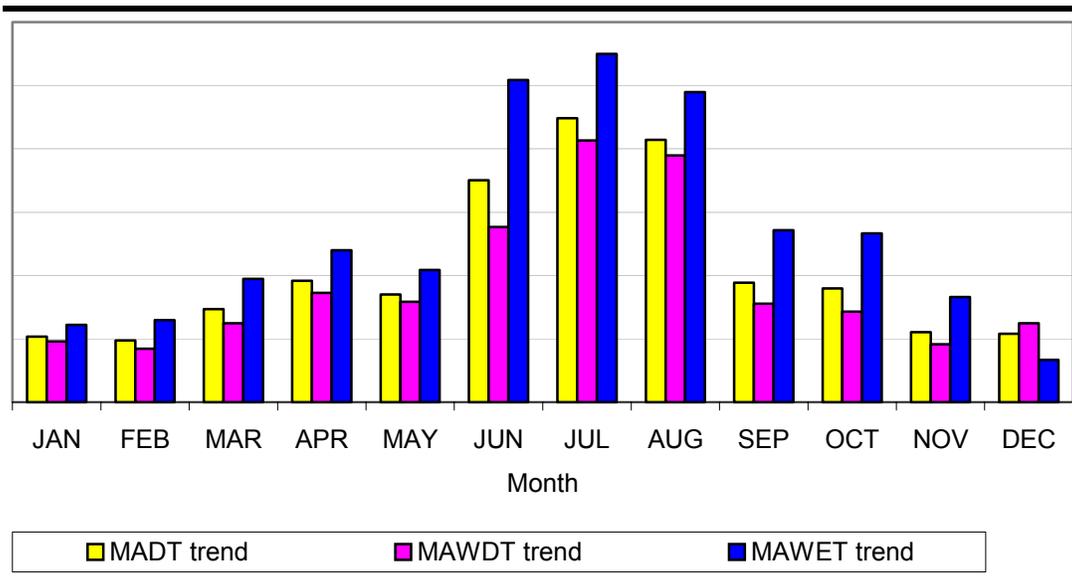
Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
 SADTF is used to adjust coverage traffic volumes to SADT volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

**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

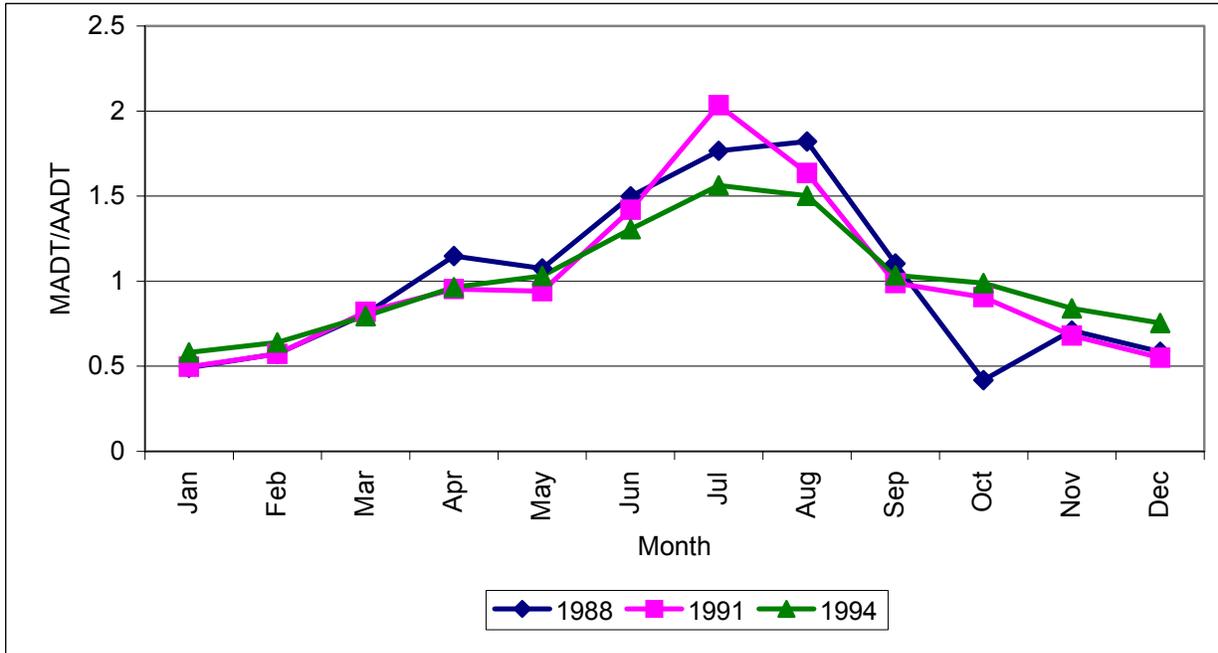


Note: AADTF is used to adjust coverage traffic volumes to AADT volume.  
 SADTF is used to adjust coverage traffic volumes to SADT volume.  
 SADT -- Seasonal Average Daily Traffic for the months containing 80% of annual volume.

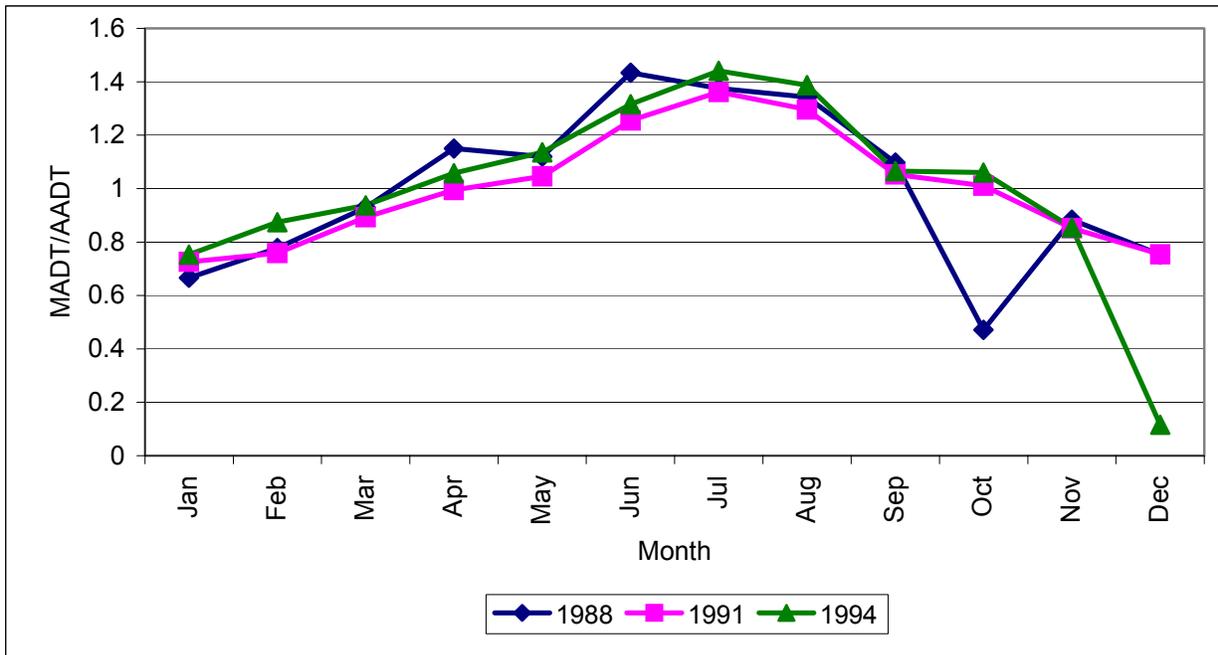
MAMMOTH CAVE NATIONAL PARK

HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

ATR Station 32011



ATR Station 32012

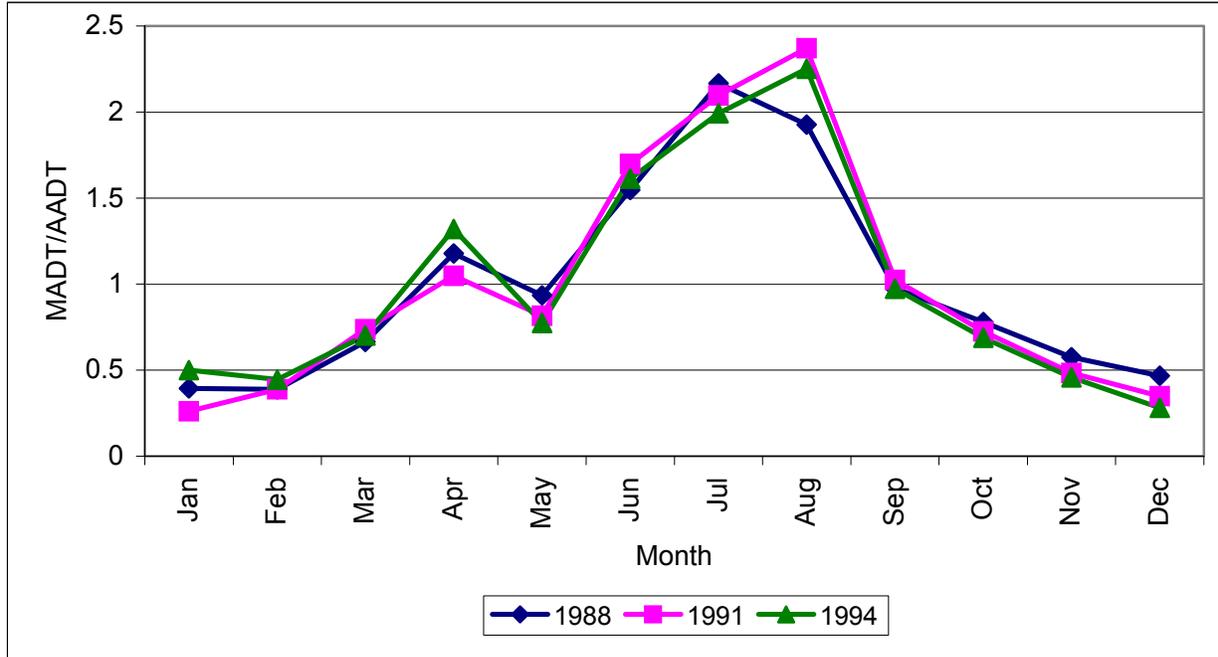


Note: MADT -- Monthly Average Daily Traffic  
AADT -- Annual Average Daily Traffic

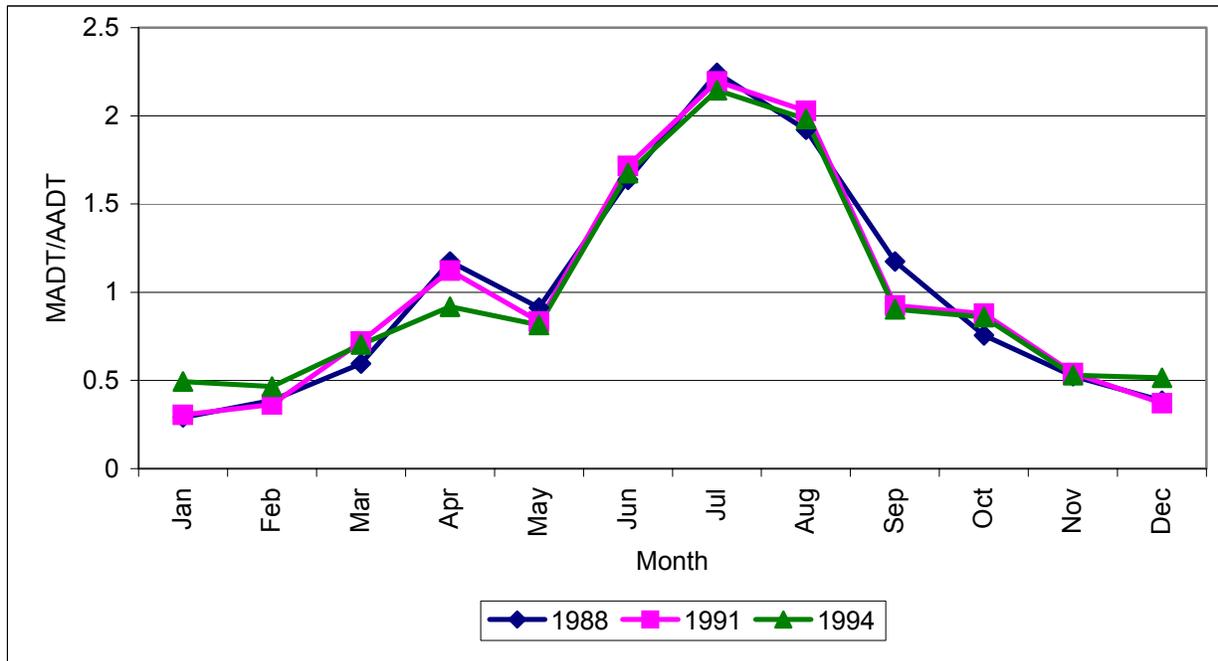
MAMMOTH CAVE NATIONAL PARK

HISTORICAL SEASONAL TRAFFIC TREND SUMMARY

ATR Station 32021



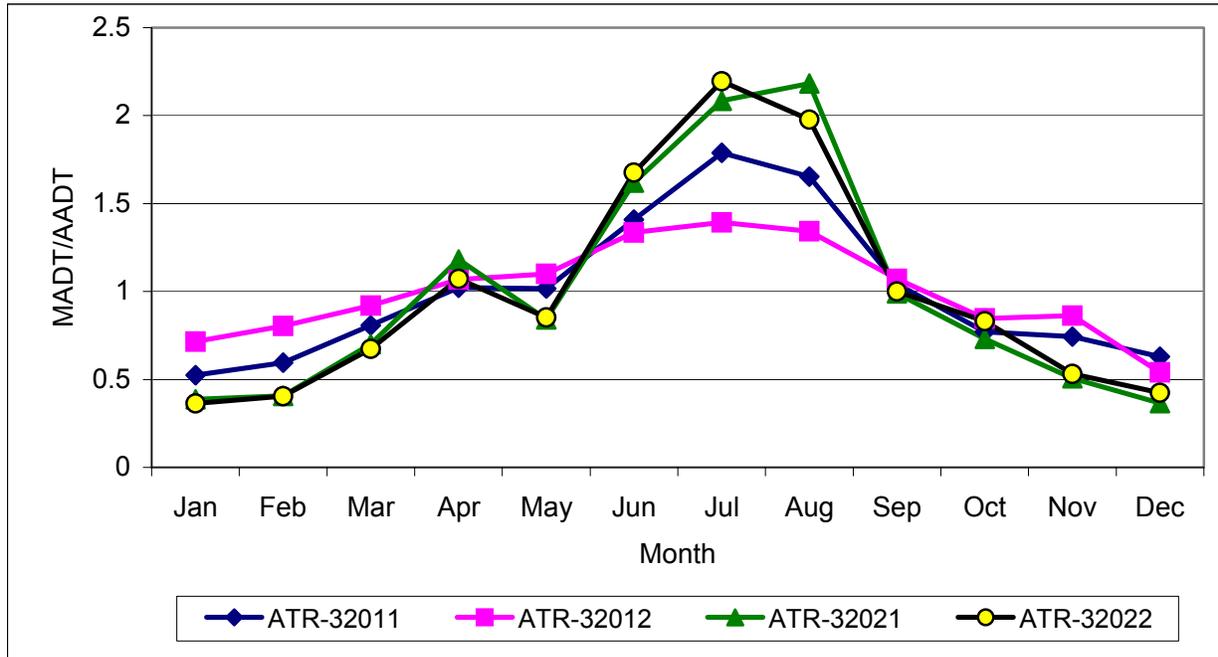
ATR Station 32022

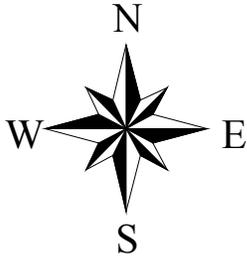


Note: MADT -- Monthly Average Daily Traffic  
AADT -- Annual Average Daily Traffic

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

