

*FHWA Mileage and VMT
Apportionment DATA*

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Legislation Requirements

- Apportionment required by TEA-21
- Appendix E of Financing F-A Highways
- (Table 1 of draft report)
 - www.fhwa.dot.gov/reports/fifahwy/index.htm

Quality Ranking of Factors

- Lane-miles (mileage) - HPMS
- Vehicle Miles of Travel (VMT) – HPMS
- Fuel and Tax - OHPI and Treasury

FHWA Data & Information

- Highway Statistics (1945)
(www.fhwa.dot.gov/ohpi)
- Our Nation's Highways
- HPMS (1978 - 2000)
- Traffic Monitoring Guide (1985 – 2001)

HPMS

- Areawide forms or templates
- Universe (covers NHS) (46 data items)
 - Link length, AADT, # lanes
- Sample (excludes FC local roads) (98)
 - Link length, AADT, # lanes
 - Stratified simple random sample

Traffic Monitoring Guide

- Traffic volume
- Vehicle classification
- Weigh-in-motion (WIM)

TMG Traffic Volume

- Continuous Counters
 - Best estimate of AADT
 - Groups and seasonal factors
 - Monthly traffic trends (TVT)

TMG Traffic Volume

- Short counts
 - 48 hours
 - 6 year coverage cycle
- AADT estimation
 - Month, day, axle, growth factors
- VMT estimation
 - AADT times length of section (HPMS)

TMG Vehicle Classification

- Same structure as volume
- Continuous counters
 - Groups and factors (3 classes)
- Short counts
 - 13, 6, and fewer vehicle classes

TMG WIM

- Small but permanent number of sites
 - Expensive and unreliable
- Selection based on VC truck maps
- Collect class and weight (VTRIS)
- Dynamic not static weight

AASHTO Traffic Guidelines

- Well worth reading
- Introduced new concepts: standards, truth-in-data, precision of estimates, quality control
- 1992, 14 States, FHWA, others in panel

TMS Regulation

- Required by TEA-21
- Program is optional
- Recaps HPMS, TMG, AASHTO guide

DATA Sources

- FHWA – www.fhwa.dot.gov/ohpi
- AASHTO guide – AASHTO
- TMG regulation –
www.fhwa.dot.gov/legsregs/directives/fapg/cfr050b.htm

Conclusion

- FHWA data has no International or freight component
- Covers all ports-of-entry highways
- Apportionment data systems must be reliable and maintain trust.