

HPMS Sampling Study

2015 Highway Information Seminar

September 25, 2015

Arlington, VA



HPMS Sampling Intro.

- Largely unchanged since HPMS inception
- Based on stratified AADT volume groups (12)
 - Functional System
 - Area (Rural, Small Urban, Urbanized)
 - State
- Need to revisit post HPMS Reassessment 2010+
 - New data model (GIS-enabled)
 - Changing data items and needs
 - Take advantage of newer technology



HPMS Sampling Study

- Recently initiated with CDM Smith (up to 1 year)
- Need to revisit post HPMS Reassessment 2010+
 - New data model (GIS-enabled)
 - Changing data items and needs
 - Take advantage of newer technology
- Two main tasks:
 - Evaluate current sampling plan– still OK w/wo adjustments?
 - Develop alternative sampling plan(s)– is there a better way?



HPMS Sampling Issues

- Some main issues:
 - Are the current strata still the best statistical design in light of the current HPMS data model?
 - Is AADT stratification still valid given that AADT is now a full-extent data item for the Fed-aid system?
 - Are current precision rates and confidence levels still valid?
 - How to adjust sample changes due to decennial Census impacts?
 - Explore concept of NHS/National level sampling.
 - How should samples that have missing data be expanded/handled?
 - Can the expansion factor be integrated into the adequacy estimation?
 - Can PM2 needs be addressed by sampling?
 - Others?



Questions and Comments

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