Module 9
On-Your-Own Class Exercise

Exercise Goals

- Develop a CO inventory for Washtenaw County, Michigan
  - Refer to handout for detailed information
- Work with data provided – not always in MOVES format
- Post-process results to obtain total inventory

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Instructions

Referring to handout:

- Create a MOVES RunSpec
- Create a blank input database
- Populate the input database with appropriate tables – all necessary files are located in “Course Files/On-your-own class exercise” folder
  - Note some files require conversion or modification
- Run MOVES
- Post-process output to generate a total inventory

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MOVES Inputs Provided by MPO

- The MPO has supplied some data files already formatted for MOVES
  - Average Speed Distribution
  - Road Type Distribution

- These files are located in the MPO MOVES Files folder

- These files can be directly imported into MOVES

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Other Information Provided

- Other necessary files are provided in the Additional Data folder:
  - Temperature and humidity
  - Daily VMT
  - Vehicle Population

- This information must be properly formated for use in MOVES

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Additional Inputs that Need Modification

- Some inputs require additional modification:
  - Age distribution
  - Hotelling
  - Fuels – AVFT table

- Age Distribution and AVFT
  - Because the county's bus fleet has a known age distribution and fuel use, these inputs must be modified
  - There is a formatted age distribution file ready to modify in the MPO MOVES files folder
  - You will have to export and modify the default fuels files for Washtenaw County

- Hotelling
  - The example scenario implements an anti-idling requirement for combination long-haul trucks. All hotelling activity should be changed to APU use.

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After Running MOVES…

- Results must be appropriately summed to generate the total CO inventory

- Convert result to tons
  - Use 907,185 grams per ton to convert

- Correct Answer: 151 tons

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Questions?

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