

Subject: Re: Seeking guidance on consistent sccs
Date: Tuesday, August 20, 2024 at 10:41:04 AM Central Daylight Time
From: Roten, Liz
To: Eyth, Alison

Thank you, Alison!

Can you direct me to the appropriate SCC description tables for EQUATES? I'm not getting a match for SCCs like 2201110172, 2201110340, and 2201310192.

Liz Roten

Pronouns: she/her or they/them
Senior Data Scientist
Metropolitan Council - Metropolitan Transportation Services

From: Eyth, Alison <Eyth.Alison@epa.gov>
Sent: Monday, August 19, 2024 2:25 PM
To: Roten, Liz <Liz.Roten@metc.state.mn.us>; Godfrey, Janice <Godfrey.Janice@epa.gov>
Cc: Roberts, Sarah <Roberts.Sarah@epa.gov>
Subject: [EXTERNAL] RE: Seeking guidance on consistent sccs

Hi Lis,

We have county-level annual emissions for the onroad sources as well as the gridded emissions.

Here are a bunch of files that are down to the county / SCC level with the SCCs at the level of the modeling platform which is a bit more detailed than the NEI.
They aren't small files, but they are county x SCC x pollutant.

<https://gaftp.epa.gov/Air/emismod/MOVES3/CONUS/https://gaftp.epa.gov/Air/emismod/MOVES3/CONUS/>

Alison

From: Roten, Liz <Liz.Roten@metc.state.mn.us>
Sent: Monday, August 19, 2024 2:48 PM
To: Eyth, Alison <Eyth.Alison@epa.gov>; Godfrey, Janice <Godfrey.Janice@epa.gov>
Cc: Roberts, Sarah <Roberts.Sarah@epa.gov>
Subject: Re: Seeking guidance on consistent sccs

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Hi Alison,

Great question – I wasn't aware of EQUATES. I did a cursory read and it looks like a bit more detail than we need. Our primary geographic unit is county-level – if we downloaded the gridded information, our first task would be aggregating up to counties. We also only need annual totals, not daily or hourly.

We are also focused on GHGs, so we need CO2, as well.

We want to get back to 2008 because the state of Minnesota has set their baseline year at 2005. Our region includes the Minneapolis-St. Paul metropolitan area, which is home to well over 50% of the state's total population.

We would like to match that 2005 baseline in our climate action planning initiatives and GHG inventory, and so need data for 2005, or a use suitable stand-in.

Based on the [EPA website](#), the 2005 NEI is not appropriate for county-level analysis. Given this limitation, the next NEI (2008) is our best option.

If it would be easier to talk through the data options, I'd be happy to set up a 15-30 minute phone call/Teams meeting.

Thank you both for your help,

Liz Roten

Pronouns: she/her/hers or they/them/theirs

Senior Data Scientist

Metropolitan Council - Metropolitan Transportation Services

From: Eyth, Alison <Eyth.Alison@epa.gov>

Date: Monday, August 19, 2024 at 1:05 PM

To: Roten, Liz <Liz.Roten@metc.state.mn.us>, Godfrey, Janice <Godfrey.Janice@epa.gov>

Cc: Roberts, Sarah <Roberts.Sarah@epa.gov>

Subject: [EXTERNAL] RE: Seeking guidance on consistent sccs

Liz,

Quick question, is there a reason you need to use the 2008 NEI exactly could you use 2008 EQUATES?

2008 EQUATES has 2008 onroad emissions using the same SCCs we use now as it was based on data and methods from 2017 NEI.

EQUATES covers all years from 2002-2017, plus extensions to 2018 and 2019.

Thanks,

Alison

From: Roten, Liz <Liz.Roten@metc.state.mn.us>
Sent: Monday, August 19, 2024 12:55 PM
To: Godfrey, Janice <Godfrey.Janice@epa.gov>
Cc: Eyth, Alison <Eyth.Alison@epa.gov>; Roberts, Sarah <Roberts.Sarah@epa.gov>
Subject: Re: Seeking guidance on consistent sccs

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Hello,

Before this gets too far down in the email slog, I'd appreciate any guidance you can provide on what the most detailed SCC level would be appropriate for comparisons across 2008 to 2020 NEIs.

Thanks for your help,

-Liz

Liz Roten

Pronouns: she/her or they/them

Senior Data Scientist

Metropolitan Council - Metropolitan Transportation Services

From: Roten, Liz <Liz.Roten@metc.state.mn.us>
Sent: Tuesday, August 13, 2024 1:29 PM
To: Godfrey, Janice <Godfrey.Janice@epa.gov>
Cc: Eyth, Alison <Eyth.Alison@epa.gov>; Roberts, Sarah <Roberts.Sarah@epa.gov>
Subject: Re: Seeking guidance on consistent sccs

Hi again,

Thank you for this context. It's very helpful.

Given that we have fuel type, vehicle type, road type, and process type, and that there was a significant change in SCCs between 2008 and 2011-onward, what is the lowest/most specific level of aggregation that would ensure relatively consistent categories over time?

I'm leaning towards grouping by vehicle type and fuel type, though it would be great to be able to look at different processes (tire wear, exhaust) over time as part of our co-pollutant analysis.

Again, thank you for your time.

-Liz

Liz Roten

Pronouns: she/her/hers or they/them/theirs

Senior Data Scientist

Metropolitan Council - Metropolitan Transportation Services

From: Godfrey, Janice <Godfrey.Janice@epa.gov>

Date: Monday, August 12, 2024 at 1:47 PM

To: Roten, Liz <Liz.Roten@metc.state.mn.us>

Cc: Eyth, Alison <Eyth.Alison@epa.gov>, Roberts, Sarah <Roberts.Sarah@epa.gov>

Subject: [EXTERNAL] RE: Seeking guidance on consistent sccs

Hi Liz,

The 2008 SCCs in your spreadsheet are all retired. The onroad SCCs used a different configuration before 2011. Since the structure changed, the two sets are not directly mappable to one another – except maybe at the level of light duty vs heavy duty.

For the 2020 SCCs, those are fuel/vehicle combinations that don't exist:

CNG other bus

CNG school bus

CNG refuse truck

CNG Single Unit Short-haul Truck

CNG Single Unit Long-haul Truck

CNG Combination Short-haul Truck

The only CNG vehicles we currently have are transit buses.

Please let me know if you have any more questions.

Janice

From: Roten, Liz <Liz.Roten@metc.state.mn.us>

Sent: Monday, August 12, 2024 10:48 AM

To: Godfrey, Janice <Godfrey.Janice@epa.gov>

Cc: Eyth, Alison <Eyth.Alison@epa.gov>; Roberts, Sarah <Roberts.Sarah@epa.gov>

Subject: Re: Seeking guidance on consistent sccs

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Hi Janice,

Thank you for your response. This solves most of the SCCs, but not all of them. I've attached a CSV with the SCC values and calculation years that are not joining with the provided data. These are all from the VMT tables for each NEI year.

Thanks again, I greatly appreciate your time.

-Liz

Liz Roten

Pronouns: she/her/hers or they/them/theirs

Senior Data Scientist

Metropolitan Council - Metropolitan Transportation Services

From: Godfrey, Janice <Godfrey.Janice@epa.gov>

Date: Monday, August 12, 2024 at 7:51 AM

To: Roten, Liz <Liz.Roten@metc.state.mn.us>

Cc: Eyth, Alison <Eyth.Alison@epa.gov>, Roberts, Sarah <Roberts.Sarah@epa.gov>

Subject: [EXTERNAL] Seeking guidance on consistent sccs

You don't often get email from godfrey.janice@epa.gov. [Learn why this is important](#)

Hi Liz,

I am responding to your email to Sarah Roberts at OTAQ. We have special SCCs for modeling mobile sources. I am attaching that list. It is confusing. The list of SCCs you were looking at originally is used for the National Emissions Inventory where each pollutant estimate has an SCC.

Let me know if this helps and if there is anything else you are looking for.

Janice Godfrey

Physical Scientist

Emissions Inventory and Analysis Group

EPA/OAQPS/AQAD

919-541-3391 (email is best method to reach me)