New Functionality

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Jenn Andrews, & Cassidy Yates**

University of New Hampshire

February 3, 2021

Outline

- New functionality:
  - Biogenic
  - 2020 version of emission factors
  - 20-year GWP
  - Air travel methods
- Commuting guidance for 2020
- Ongoing SIMAP work
- Q&A

Webinar recording and slides will be posted!

Post questions in the chat

SIMAP
SUSTAINABILITY INDICATOR MANAGEMENT & ANALYSIS PLATFORM

Our Team

Alley Leach

Postdoctoral Researcher

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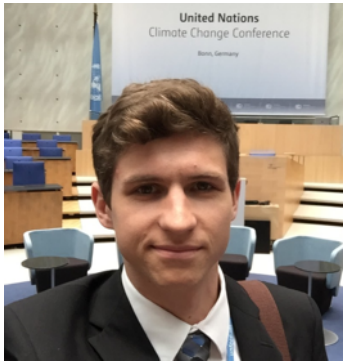
Program Director



Ben Robinson

Technical Program Assistant

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Graduate student, SIMAP intern

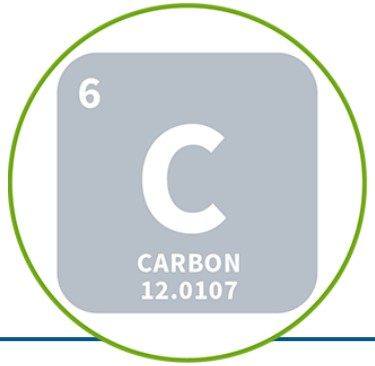
UNH Sustainability Institute

SIMAP
SUSTAINABILITY INDICATOR MANAGEMENT & ANALYSIS PLATFORM

What is SIMAP?

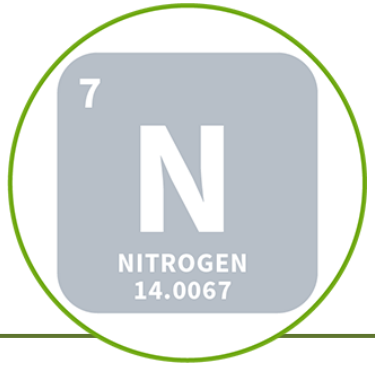
A carbon and nitrogen accounting platform that can track, analyze, and improve your campus-wide sustainability

SIMAP combines two tools:



UNH Sustainability Institute

- Developed in 2001 at UNH
- Excel and web version
- Used by thousands of institutions

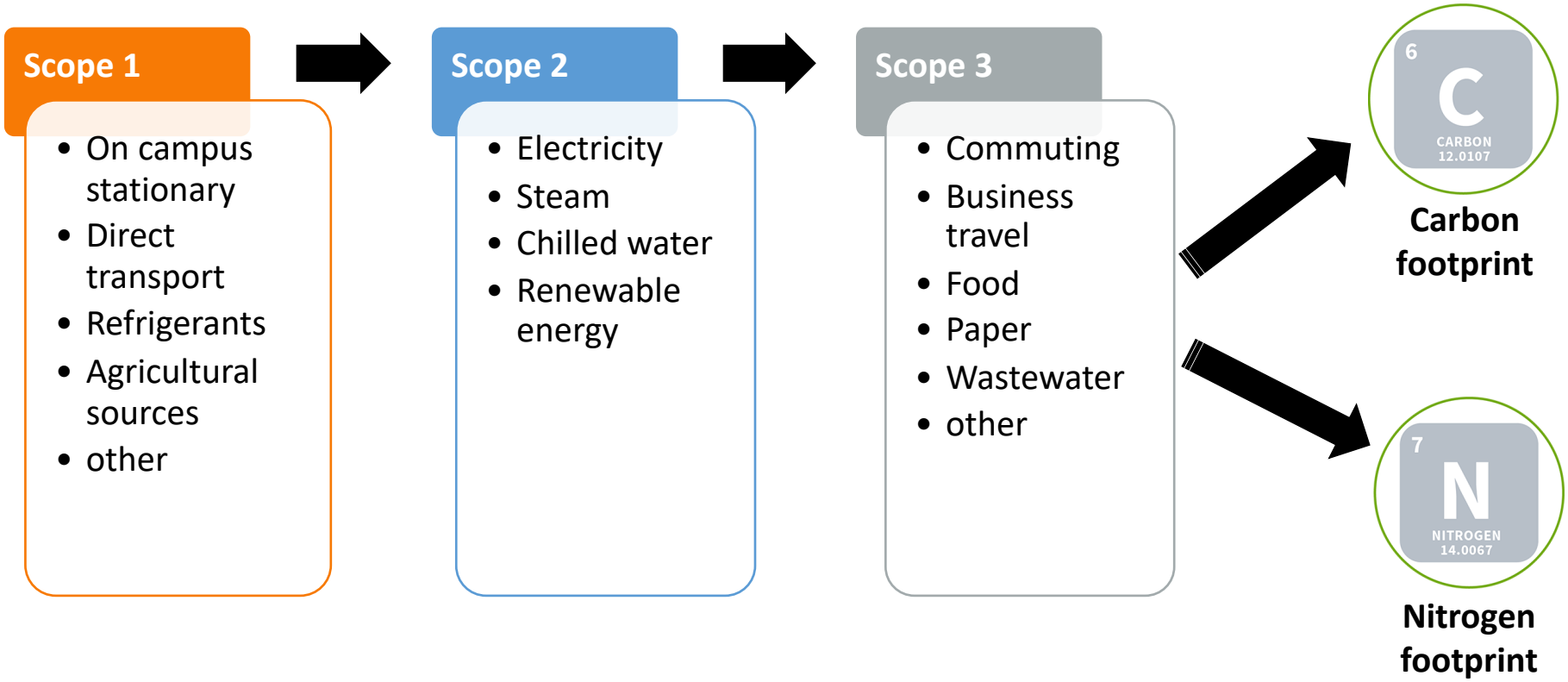


N Print

- Developed in 2009 at UVA
- Excel-based
- Used by 20 institutions
- Completed pilot testing

How does SIMAP work?

Enter your activity data:



stars
a program of aashe

STARS credit for GHG inventory, N footprint (exemplary practice), air quality (NOx emissions), purchased goods (food), third party GHG inventory review (Data Review)

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SIMPLIFYING SUSTAINABILITY DECISIONS

SIMAP® is a carbon and nitrogen-accounting platform that can track, analyze, and improve your campus-wide sustainability. Our proven algorithms, based on nearly two decades of work supporting campus inventories with the Campus Carbon Calculator, CarbonMAP and Nitrogen Footprint Tool, will help you:

- **Create a baseline**
- **Benchmark your performance**
- **Create reports**
- **Set goals**
- **Analyze your progress year over year**

GET STARTED!

YOUR CAMPUS FOOTPRINT

CARBON

CO_2 emissions from generating power, treating waste, daily commuting, and even the use of paper, contribute to a campus' carbon footprint. Reducing these greenhouse gas emissions will help slow the effects of climate change and global warming.

NITROGEN

Reactive nitrogen can result from everyday activities like food service, energy use, transportation, and ground fertilizer. Reducing your nitrogen footprint can provide benefits to air quality, water quality, and climate change.

SUBSCRIPTION TIERS

SIMAP offers two subscription levels (Tier 1 and Tier 2) that help you calculate your carbon and nitrogen footprint at a nominal license fee. We also offer add-on services, such as data reviews and additional user support time. We continue to offer a free 2-month trial (Basic account). Our model allows UNH to cover the costs of continuing to offer and support this tool for the good of the entire campus-based sustainability community.

TIER 1 ($400*) ANNUAL SUBSCRIPTION	TIER 2 ($600*) ANNUAL SUBSCRIPTION	ADD-ON SERVICES

NEWSFEED

Register for our SIMAP webinar on new functionality, taking place February 3rd at 1pm ET

Read our January 2021 newsletter with announcements on new functionality!

We released new functionality on January 19, 2021 including the 2020 version of emission factors, biogenic updates, 20-year GWPs, air travel methods selections, and commuting data entry guidance. More details are coming in a newsletter this Thursday.

Basic accounts were discontinued on January 4, 2021. Contact us at simap@unh.edu with any questions, or to apply for a need-based Tier 1 fee waiver.

Read our latest quarterly newsletter from November 2020.

Want to learn more about the 2019 version of emission factors? See this table summarizing all 2019 EFs and this list of references.

Check out our new 5-minute training videos, which cover SIMAP data reviews, the local nitrogen footprint, UNH's carbon footprint, and UNH's food nitrogen footprint

The slides and recording are available from our August 2020 webinar on "Complete Scope 3 Progress, Including Upstream Emissions from Energy"

Sign up to join the Nitrogen Working Group, set to launch this fall!

Register for a webinar on "GRITS Goals: A Powerful New Tool for Climate Action Planning," to be held Thursday July 30th from 1:00 - 2:30pm ET

Read our latest quarterly newsletter from July 2020.

Read our latest quarterly newsletter from May 2020.

ACCOUNT MANAGEMENT

- Institution
- Secondary Campuses
- Custom Tags
- Manage Users
- Notebook

NORMALIZATIONS

- Budgets
- Physical Spaces
- Populations

PROGRAMMATIC

- Goals
- Initiatives

Account Information

On the 'Account' tab, you can enter required information about your institution, manage users, track information in the notebook, and enter additional optional information for normalizations and goal tracking.

Account Management

The 'Institution' page has important and required data entry fields, such as your institution name, zip code, and system boundaries. Many of these data points are used to calculate your footprints. If your account is the official tracking account for your institution, then be sure to select 'Yes' for this final question on the 'Institution' page.

The 'Manage Users' page allows you to add new users, view current users, and change user roles (if you are the account owner). See the FAQ page for more information on user roles.

The 'Notebook' is a central location for you to track overarching notes about your campus' footprints.

Normalizations

The optional normalization data sets (budgets, physical spaces, and populations) must be entered to view normalized results on the 'Results' page. Normalizing your emissions can help with projecting your future emissions and comparing to other campuses. The most commonly used normalization data sets are the number of full-time equivalent students, staff and faculty; and the number of gross square feet.

Programmatic

On these pages, you can track information about your campus' goals and initiatives.

SIMAP | The Sustainability Institute at the University of New Hampshire
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SCOPE 1
Stationary Fuels
Cogen Efficiencies and Outputs
Transport Fuels
Fertilizer
Animals
Refrigerants & Chemicals
SCOPE 2
Utility Consumption
Renewable Energy
SCOPE 3
Commuting
Business Travel & Study Abroad
Student Travel to/from Home
Food
Paper
Waste & Wastewater
SINKS
Compost
Non-Additional Sequestration

Data Entry

On the 'Data entry' tab, you can enter your campus inventory data, view emissions factors, and customize emissions factors.

There are two options for entering your campus' inventory data:

- Enter data by category using the links on the left panel of this page.
- Import your data from several sources: Campus Carbon Calculator v7.0 - 9.1, Food Template, CarbonMAP zip file.

Important note: If you are adding sources with 'Other' in the name (e.g., On-campus statonary souces: Other), they are intended to be customized and do not have emissions factors associated with them. Be sure to enter custom emissions factors for those 'Other' sources.

Scope 1

Scope 1 includes sources of direct campus emissions from:

- Stationary and mobile sources (e.g., energy used in buildings and fleets)
- Fugitive emissions (e.g., fertilizer application, animal husbandry, the use of chemicals or refrigerants that are also GHGs)

You can enter additional chemicals and refrigerants by selecting 'Other' on the refrigerants and chemicals data entry page, which will make a second drop-down appear. If you need to add a custom chemical or refrigerant, you can do so by selecting the 'Add Chemical' button on the 'Global Warming Potential' page.

Scope 2

Scope 2 includes emissions from purchased electricity and purchased or sold renewable energy. SIMAP supports the two recommended methodologies for calculating your scope 2 footprint:

- Market-based (accounts for renewable energy purchases)
- Location-based (uses regional emissions factors)

For more information on these methodologies, see this purchased electricity methodology overview and this webinar. You can select which approach you would like to use on the Data Mgmt tab and the Results tab. If you have a supplier-specific emissions factor, you can enter that custom factor on the Utility Emission Factors page.

To support users who have historically used the Custom Fuel Mix approach (calculates weighted emissions factor based on your reported fuel mix), we are continuing to offer this methodology for your scope 2 footprint.

3. Results

Footprints * ☑ Carbon ☑ Nitrogen

Report Type * ○ Total footprint ○ Scopes ◉ Categories ○ Sources ○ Gas/pollutant

Scope 2 Method * ◉ Market-Based ○ Location-Based ○ Custom Fuel Mix

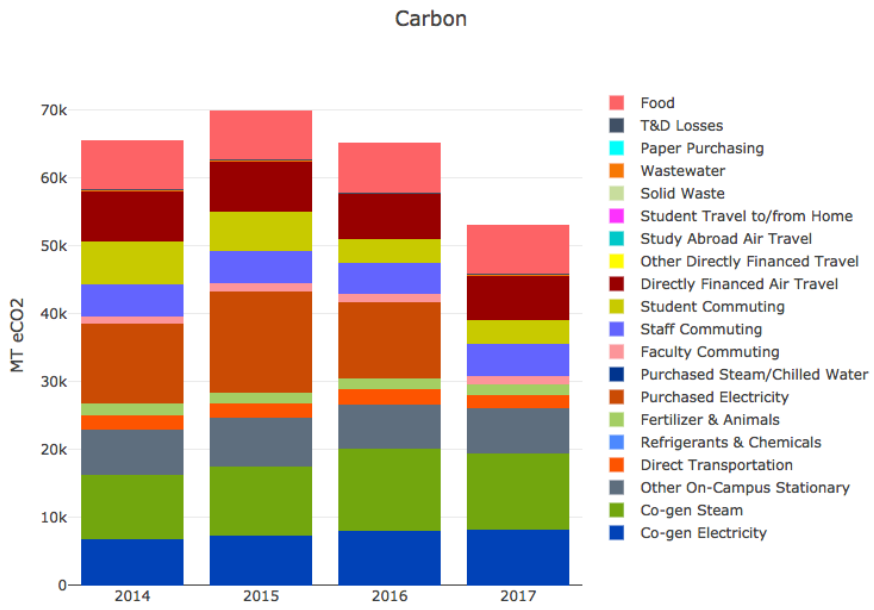
Graph Type * ○ Line ◉ Bar

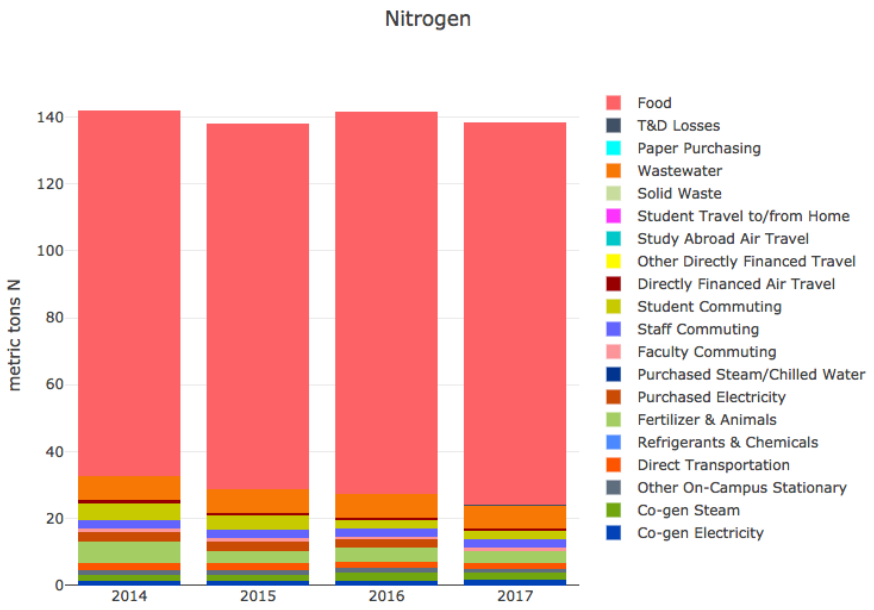
Fiscal Year Range * 2014 - 2017

Normalization None

CALCULATE

Get help with graphs





Carbon

Fiscal Year	Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
2014	1	Co-gen Electricity	6,840,038	6,840.04	701	17.52	17	4.98	6,862.53
2014	1	Co-gen Steam	9,377,846	9,377.85	961	24.02	23	6.82	9,408.69

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Reports

Report

- ✓ Annual Report
- Food Report
- Commuting Report
- Second Nature
- GRITS Report
- Biogenic Emissions
- Campus Comparison Report

Footprint * ◉ Carbon ○ Nitrogen

Year * 2019

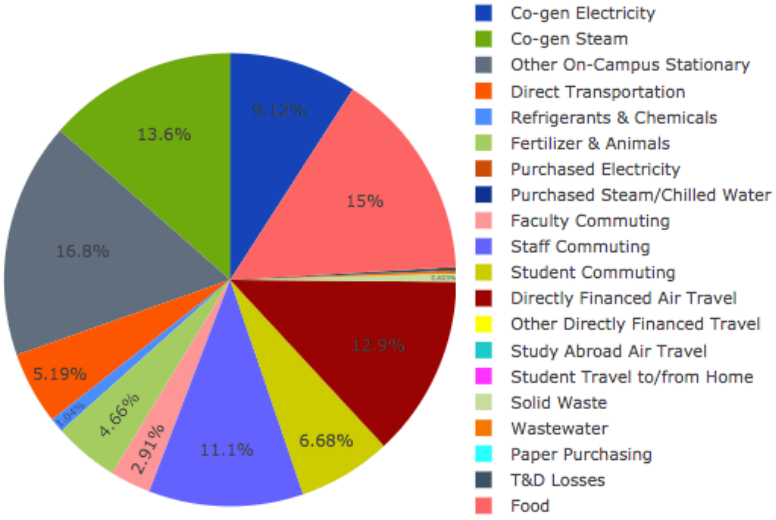
Campus ⓘ ***** ☑ Main Campus ☐ UNH Law

Filter by tags

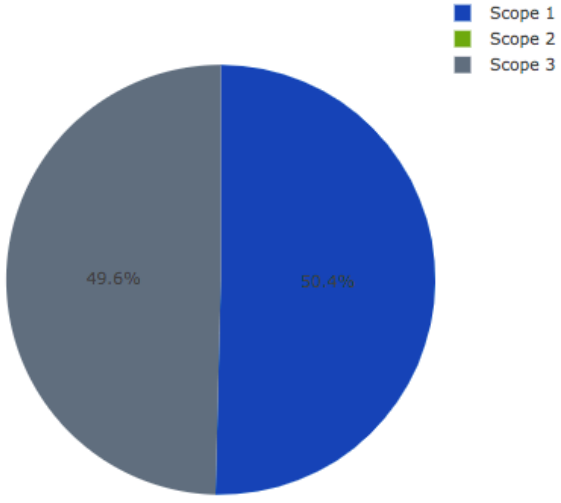
- All -
- **Physical Spaces**
  - Athletic
  - Dining
  - Healthcare/hospital

DISPLAY | EXPORT

Carbon: 2019



Carbon: 2019



DATA MANAGEMENT

- Calculation Sources and Methods
- Status
- Import Data
- Import Log
- Export Data
- Delete Data
- Data Review
- Shared Files

Calculation Sources and Methods

Emission Factors Version ⓘ
2020 (recommended)
More information on EF versions

Global Warming Potential Version ⓘ
AR5 100-year (recommended)
More information on GWP versions

Air Travel Cost Version ⓘ *
BTS (recommended)
More information on air travel cost version

Radiative Forcing Factor ⓘ
2.7 (recommended)
More information on radiative forcing factor

Scope 2 Method ⓘ *
(●) Market-Based ( ) Location-Based ( ) Custom Fuel Mix
More information on scope 2 methods

Main Campus

eGrid for data prior to 2007 ⓘ *
NEWE: NPCC New England
eGrid map for years < 2007

eGrid for data in 2007 and beyond ⓘ *
NEWE: NPCC New England
eGrid map for years >= 2007

[x] Include in Second Nature API

UNH Law

eGrid for data prior to 2007 ⓘ *
USA: U.S. Average
eGrid map for years < 2007

eGrid for data in 2007 and beyond ⓘ *
USA: U.S. Average
eGrid map for years >= 2007

[ ] Include in Second Nature API

New functionality in SIMAP

Released January 2021

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Overview of updates

- Biogenic:
  - Emission factors separated out
  - Biogenic Report
- 2020 version of emission factors
- 20-year GWP
- Air travel methods:
  - Radiative forcing factor selection
  - New $/mi conversion factors

Biogenic: Sources in SIMAP

Biogenic CO_2 refers to carbon in wood, paper, grass trimmings, and other biofuels that was originally removed from the atmosphere by photosynthesis and, under natural conditions, would eventually cycle back to the atmosphere as CO_2 due to degradation processes.

Scope 1 Stationary Fuels:

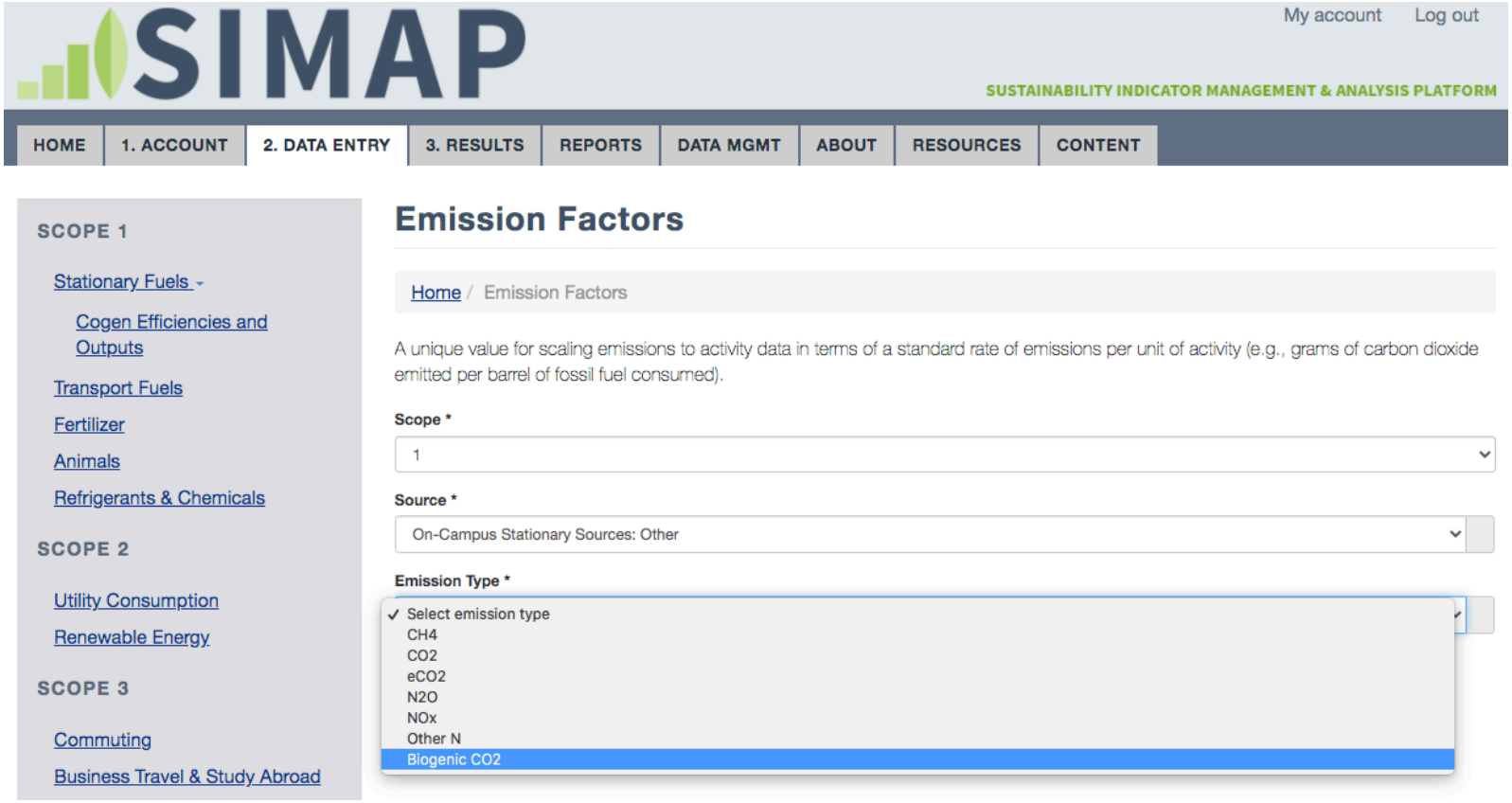
- Wood chips, wood pellets, and grass pellets: 100% biogenic
- Incinerated waste: 53% biogenic
- Ethanol: 100% biogenic
- Residual bioheat and distillate bioheat: 20% biogenic *(note - this is a correction; this was previously 100%)*

Scope 1 Transport Fuels:

- B100: 100% biogenic
- B20: 20% biogenic
- B5: 5% biogenic
- E85: 74% biogenic *(note - this was updated to reflect the US average; this was previously 85%)*

In a future update, we will incorporate scope 2 and scope 3 biogenic emissions factors

Biogenic:
Emissions Factors

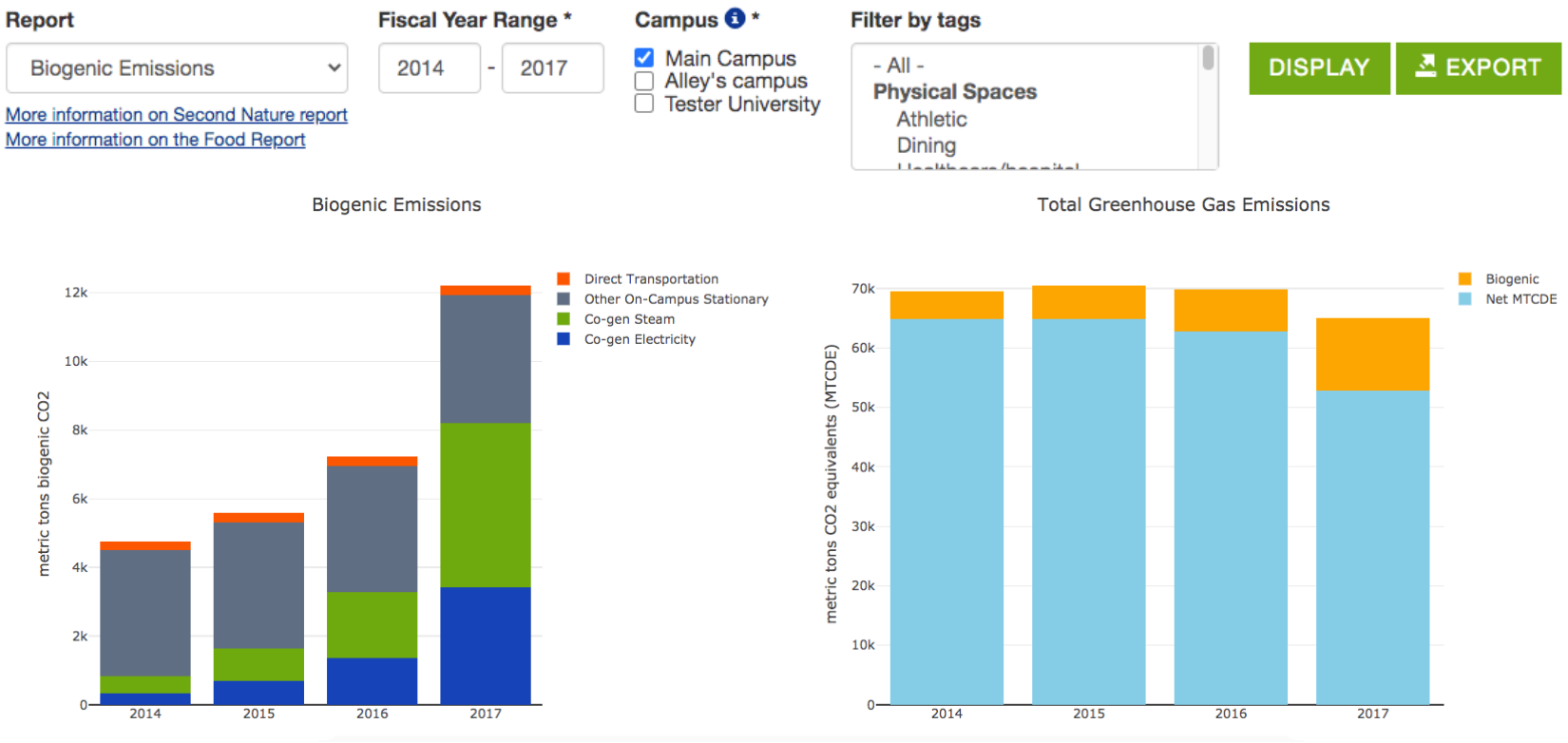


Biogenic emission factors are now separated out from non-biogenic CO_2

View and customize on the Data Mgmt tab > Emission Factors page

Biogenic:
New Report

View your biogenic emissions by category on the Reports tab



Coming Soon: Campus Lands Report and Carbon Neutrality Report

2020 version of emission factors

Key updates to emission factors:

- Updated across all relevant categories:
  - 2018 carbon contents, 2019 heating values, 2015-2017 MPGs
- Scope 1:
  - Separated out biogenic emission factors from CO_2 emission factors
- Scope 2:
  - Updated residual emission factors to 2018
- Scope 3:
  - Updated waste emission factors methodology so they change over time

Corrections:

- Biogenic %
  - E85 changed from 85% to 74%
  - Residual and distillate bioheat changed from 100% to 20%

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2020 version of emission factors: Scope 1

Version	2020 (Recommended)
Date released	**January 2021**
Scope 1	
Stationary combustion	Updated to most recent year (Carbon Contents: 2018, Heating values: 2019) Separated out biogenic emission factors from CO_2 Corrected biogenic % for residual and distillate bioheat (from 100% to 20%)
Transport fuels	Updated data to most recent year (Carbon Contents: 2018, Heating values: 2019) Updated biogenic % for E85 (from 85% to 74%)
Fertilizer	No changes
Animals	Updated data to the most recent year (2018)
Refrigerants & chemicals	Minor naming corrections Added the option to view results using 20-year GWPs

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2020 version of emission factors: Scope 2

Version	2020 (Recommended)
Date released	**January 2021**
Scope 2	
Utility consumption	eGrid 2018 report for location-based emission factors (unchanged from 2019 version of EFs)
	Residual emission factors for market-based approach updated through 2018

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2020 version of emission factors: Scope 3

Version	2020 (Recommended)
Date released	**January 2021**
Scope 3	
Commuting	Updated data to most recent year (Carbon Contents: 2018, Heating values: 2019, Average MPGs: 2015-2017)
Business travel & study abroad	Updated data to most recent year (Carbon Contents: 2018, Heating values: 2019, Average MPGs: 2015-2017)
Student travel to/from home	Updated data to most recent year (Carbon Contents: 2018, Heating values: 2019, Average MPGs: 2015-2017)
Food	No changes
Paper	No changes
Waste & wastewater	Updated waste emission factors across time using the WARM Model. Previously, the same value was used across all years. Current through 2016.

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More information about EF versions

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Emissions factors version information

Emissions factors are released each year as versions. Each year's version includes the most up to date emissions factors available. You can select which version you would like to use on the calculation sources and methods form. And remember, Tier 1 users can always customize their emissions factors on the Data Entry tab.

List of references used in the recommended version of emission factors (2019)

Table summarizing all emission factors, with links to detailed reference pages (2019)

Version	2017	2018	2019	2020 (Recommended)
Date released	**November 2017**	**April 2019**	**February 2020**	**January 2021**
Scope 1				
Stationary combustion	On-campus stationary changes, new NOx emissions factors	Unchanged from 2017 version	Updated data to most recent year (Carbon Contents: 2017, Heating values: 2019) Updated methodology for CH4 from Wood Chips, Wood pellets, and Grass Pellets Error corrected for Incinerated Waste (reducing CO2 EF by around 70%)	Updated data to most recent year (Carbon Contents: 2018, Heating values: 2019) Separated out biogenic emission factors Corrected biogenic % for residual and distillate heating (from 100% to 20%)
Transport fuels	Unchanged from CCC, new NOx emissions factors	Unchanged from 2017 version	Updated data to most recent year (Carbon Contents: 2017, Heating values: 2019, Average MPGs: 2016) CH4 and N2O update for gasoline and diesel vehicles (emission factors and fuel efficiency)	Updated data to most recent year (Carbon Contents: 2018, Heating values: 2019, Average MPGs: 2017) Updated biogenic % for E85 (from 85% to 74%)

https://unhsimap.org/cmap/resources/EFVersions

Which emission factor version should I use?

Which version should you use for your current and historic calculations?

- The recommended practice is to use the current recommended emission factor version (2020 version) for ALL years of your footprint calculation
- Every version of emission factors extends back to 1990 in SIMAP
- Historic emission factors can change in new emission factor versions for two reasons:
  - New data sets become available
  - New methodologies are recommended

Why should you update?

- More accurate results
- Comparisons across time reflect real changes – not changes in accounting methods

EF versions in SIMAP:

2020 version (recommended)

2019 version

2018 version

2017 version

Select on Data Mgmt tab

https://unhsimap.org/cmap/resources/recommendedEFversion

What is global warming potential?

Global warming potential (GWP) is a normalization metric that converts all greenhouse gases to the same unit

"GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO_2)" – *US EPA*

Greenhouse gas	100-year AR5 GWP
Carbon dioxide (CO_2)	1
Methane (CH_4)	28
Nitrous oxide (N_2O)	265

Example calculation:

100 kg CH_4 * 28 GWP = 280 kg CO_2-equivalents

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20-year Global Warming Potential

- 100-year global warming potential (GWP) describes the warming effect GHGs will have in atmosphere over 100 years
- 20-year GWP is over 20 years, and emphasizes shorter-lived GHGs like methane and their sources (e.g., natural gas, cows)

Greenhouse gas	100-year AR5 GWP	20-year AR5 GWP
Carbon dioxide (CO_2)	1	1
Methane (CH_4)	28	84
Nitrous oxide (N_2O)	265	264

AR = Assessment Report

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Which GWP version should you use?

- Most GHG inventories use 100-year GWP, and we still recommend using the 100-year GWP for your inventory
- 20-year GWP provides a different and additional way to view your GHG inventory results

GWP options in SIMAP:

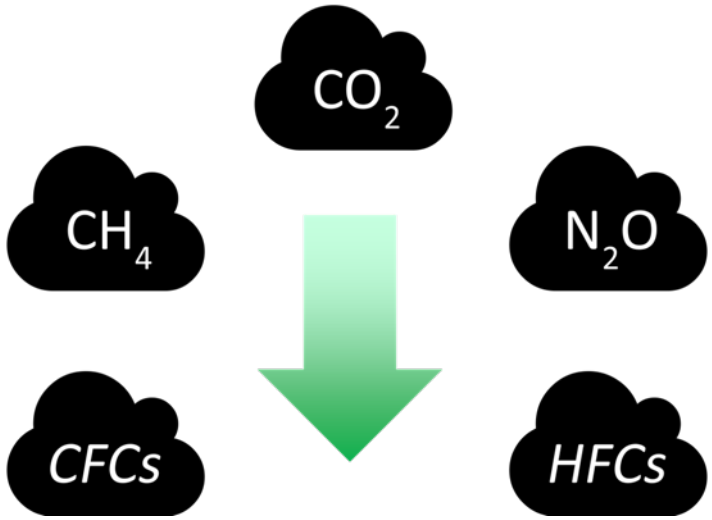
AR4 100-year

AR5 100-year (recommended)

AR4 20-year

AR5 20year

Select on Data Mgmt tab



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Air Travel Methods: Passenger yield ($/mi)

You can enter your air travel data into SIMAP in US dollars ($)

SIMAP uses national statistics to calculate air travel **passenger yield factors** ($/mi)

Air travel $/mi options in SIMAP

BTS (recommended)

Pre-2020 (outdated)

Select on Data Mgmt tab

- Pre-2020 data source no longer updated
- Bureau of Transportation Statistics (BTS) is the new recommended data set
- BTS includes taxes; Pre-2020 does not
- BTS miles (and emissions) are lower

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Air Travel Methods: Radiative Forcing

Air travel CO_2 emissions are multiplied by a **radiative forcing factor** to account for the higher global warming potential from emissions released at a higher altitude

*Air travel CO_2 emissions = Passenger miles * CO_2 emissions factor * radiative forcing factor*

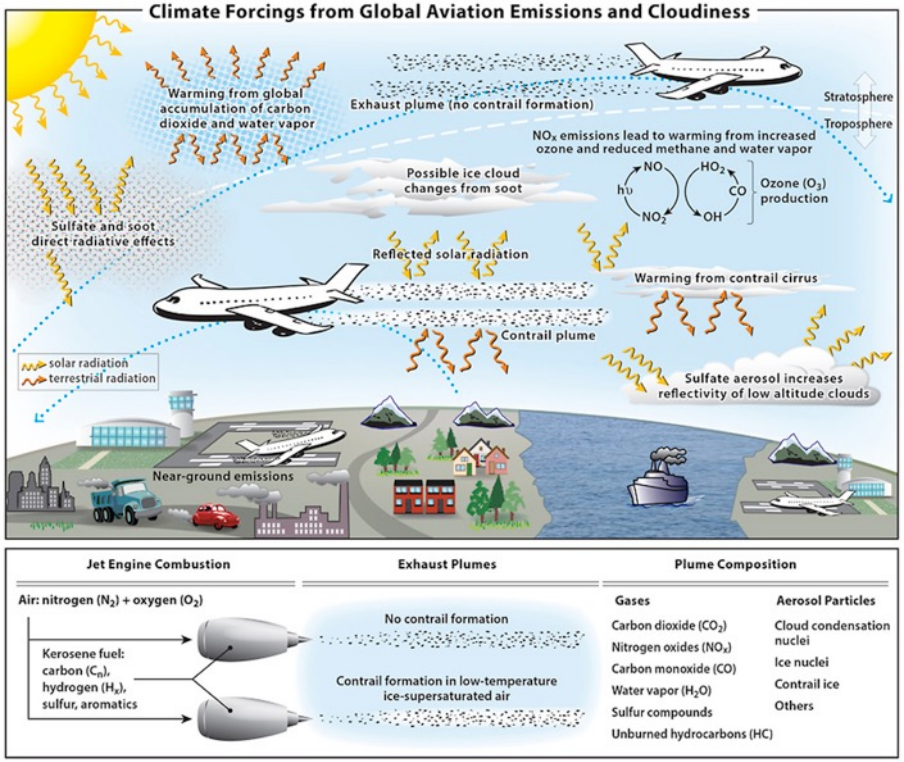
Radiative forcing options in SIMAP:

IPCC: 2.7 (recommended)

DEFRA: 1.9

Select on Data Mgmt tab

DEFRA = UK Department for Environment, Food, and Rural Affairs



Recommended methods and alerts

Calculation Sources and Methods

Emission Factors Version

2020 (recommended)

More information on EF versions

Global Warming Potential Version

AR4 100-year
✓ AR5 100-year (recommended)
AR4 20-year
AR5 20-year

Air Travel Cost Version *

BTS (recommended)

Radiative Forcing Factor

2.7 (recommended)

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3. Results

- You are not using the recommended EF version (2020). To change it, visit the calculation sources and methods form.
- You are not using the recommended GWP version (AR5 100-year). To change it, visit the calculation sources and methods form.
- You are not using the recommended radiative forcing factor (2.7). To change it, visit the calculation sources and methods form.
- The following years are not marked as complete for the selected campus(es) on the Status form: 2018, 2019, 2020

- MISSING FACTORS: Food scaling factor not set for the "Main" campus and year 2019. Set food scaling factor
- MISSING FACTORS: Custom emission factors must be entered for On-Campus Stationary Sources: Other (2020)

New content pages

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Biogenic Emissions

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Global Warming Potential Versions

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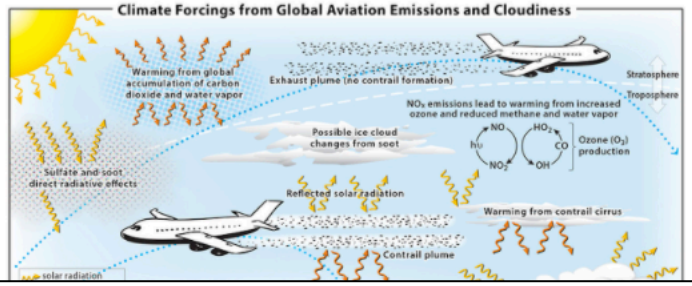
Air travel emissions

RADIATIVE FORCING FACTOR

What is radiative forcing for air travel?

Radiative forcing is associated with emissions at higher altitudes and results in a higher global warming potential. Your air travel CO_2 emissions are multiplied by the radiative forcing factor to account for the higher global warming potential from emissions released at higher altitudes. The radiative forcing factor is also sometimes referred to as the radiative forcing index.

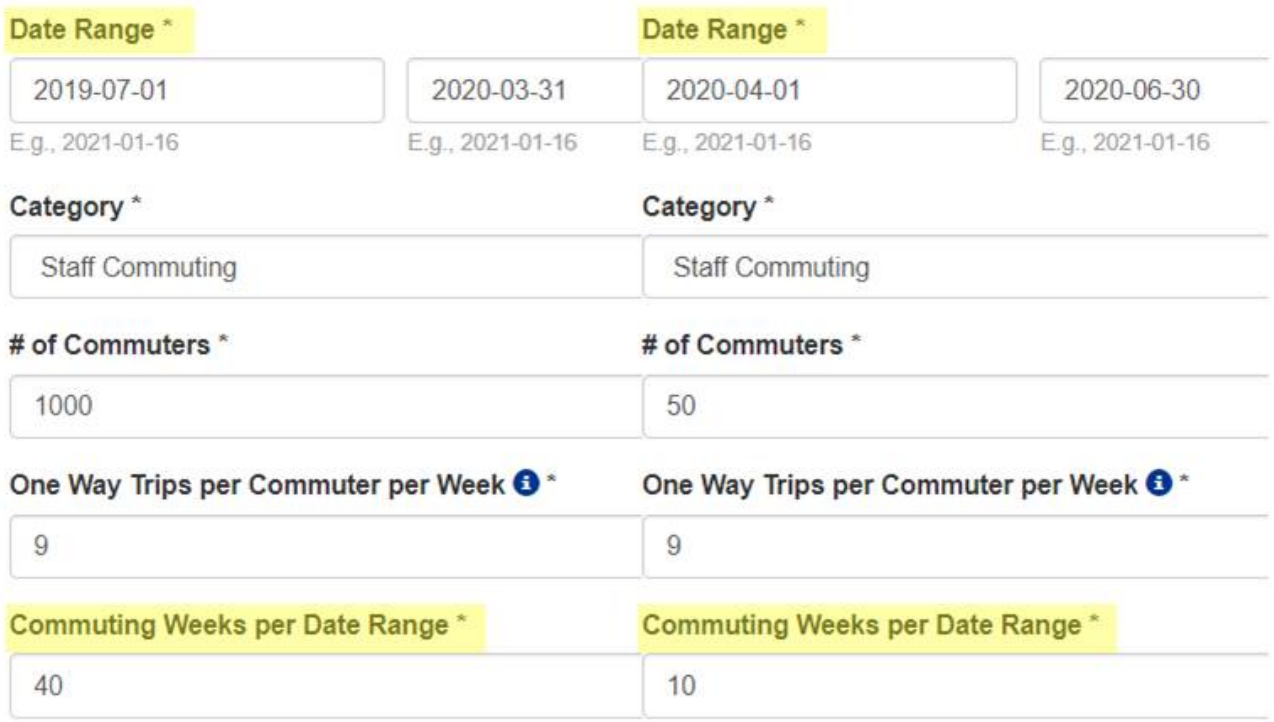


Commuting Guidance in SIMAP

2020 Commuting Guidance

Tips for 2020 commuting data entry:

- Enter multiple entries as needed to reflect different commuting patterns in **different time periods**



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2020 Commuting Guidance

Tips for 2020 commuting data entry:

- Enter multiple entries as needed to reflect different commuting patterns in **different time periods**

- If entering multiple data points by commuter, be sure that the **number of weeks** is correct for that time period

Example calculation:

Student commuter automobile =
# of commuters * one-way trips per commuter per week * **commuting weeks per date range** * % of trips by automobile * vehicle miles / trip * emissions factor

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Other commuting updates and tips

Removed commuting data entry restrictions:

1. It is now possible to enter multiple data entries by commuting type by date range (e.g., two entries for student commuters for a given time period)

2. The commuting modes no longer need to total 100%

Staff Commuting

Automobile	Bike	Carpool	Commuter Rail	Light Rail	Public Bus	Walk
% of Trips	% of Trips	% of Trips	% of Trips	% of Trips	% of Trips	% of Trips
40	5	10				10
Vehicle Miles/Trip	Passenger Miles/Trip	Vehicle Miles/Trip	Passenger Miles/Trip	Passenger Miles/Trip	Passenger Miles/Trip	Passenger Miles/Trip
5	2	5				1

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Other commuting updates and tips

- Be sure to avoid double-counting scope 1 fleet vehicles (e.g., buses)
- Check out the **Commuting Report** on the Reports tab:

Reports

Report: Commuting Report

More information on Second Nature report
More information on the Food Report

Footprint *: Carbon / Nitrogen

Fiscal Year Range *: 2014 - 2018

Filter by tags: - All - / Physical Spaces / Athletic / Dining

DISPLAY | EXPORT

Commuting

Fiscal Year	Start Date	End Date	Category	# of Commuters	Trips per Commuter	Commuting Weeks	Automobile %	Automobile Miles	Bike %	Bike Miles	Carpool %	Carpool Miles	Commuter Rail %	Commuter Rail Miles	Light Rail %	Light Rail Miles	Public Bus %	Public Bus Miles	Walk %	Walk Miles	CO2 (kg)	CO2 (MTCDE)	Bi (M
2014	2013-07-01	2014-06-30	Faculty Commuting	844	9	40	81.00	12.00	2.50	0.00	7.50	12.00	0.00	0.00	0.00	0.00	5.00	8.80	4.00	0.00	1,137,956	1,137.96	
2014	2013-07-01	2014-06-30	Staff Commuting	2,183	9	50	81.00	15.00	2.50	0.00	7.50	15.00	0.00	0.00	0.00	0.00	5.00	8.80	4.00	0.00	4,570,715	4,570.71	
2014	2013-07-01	2014-06-30	Student Commuting	15,902	10	30	24.00	10.25	4.25	0.00	5.50	10.00	0.00	0.00	0.00	0.00	12.50	8.10	7.00	0.00	5,918,755	5,918.75	
2015	2014-07-01	2015-06-30	Faculty Commuting	880	9	40	81.00	12.00	2.50	0.00	7.50	12.00	0.00	0.00	0.00	0.00	5.00	8.80	4.00	0.00	1,192,615	1,192.62	
2015	2014-07-01	2015-06-30	Staff Commuting	2,201	9	50	81.00	15.00	2.50	0.00	7.50	15.00	0.00	0.00	0.00	0.00	5.00	8.80	4.00	0.00	4,627,185	4,627.18	

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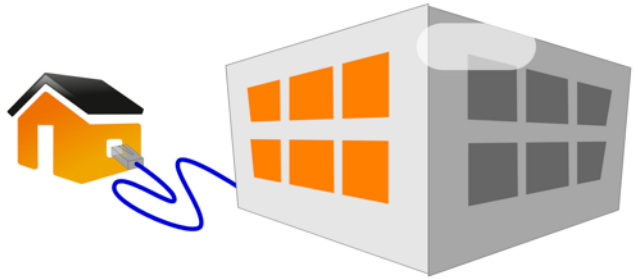
Telecommuting

We are not adding telecommuting as a commuting mode this spring, but we will add it in the future!

Telecommuting does have a footprint from:

- Primary effects:
  - At-home electricity and heating
  - Added server space and IT support
- Secondary effects:
  - Many! Living further from work, etc.



Example calculation for added electricity from computer station ONLY:

20 kwh/month/person * 12 months * 0.43 kg CO_2/kwh = **103 kg CO_2/telecommuter/year**

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How SIMAP can help

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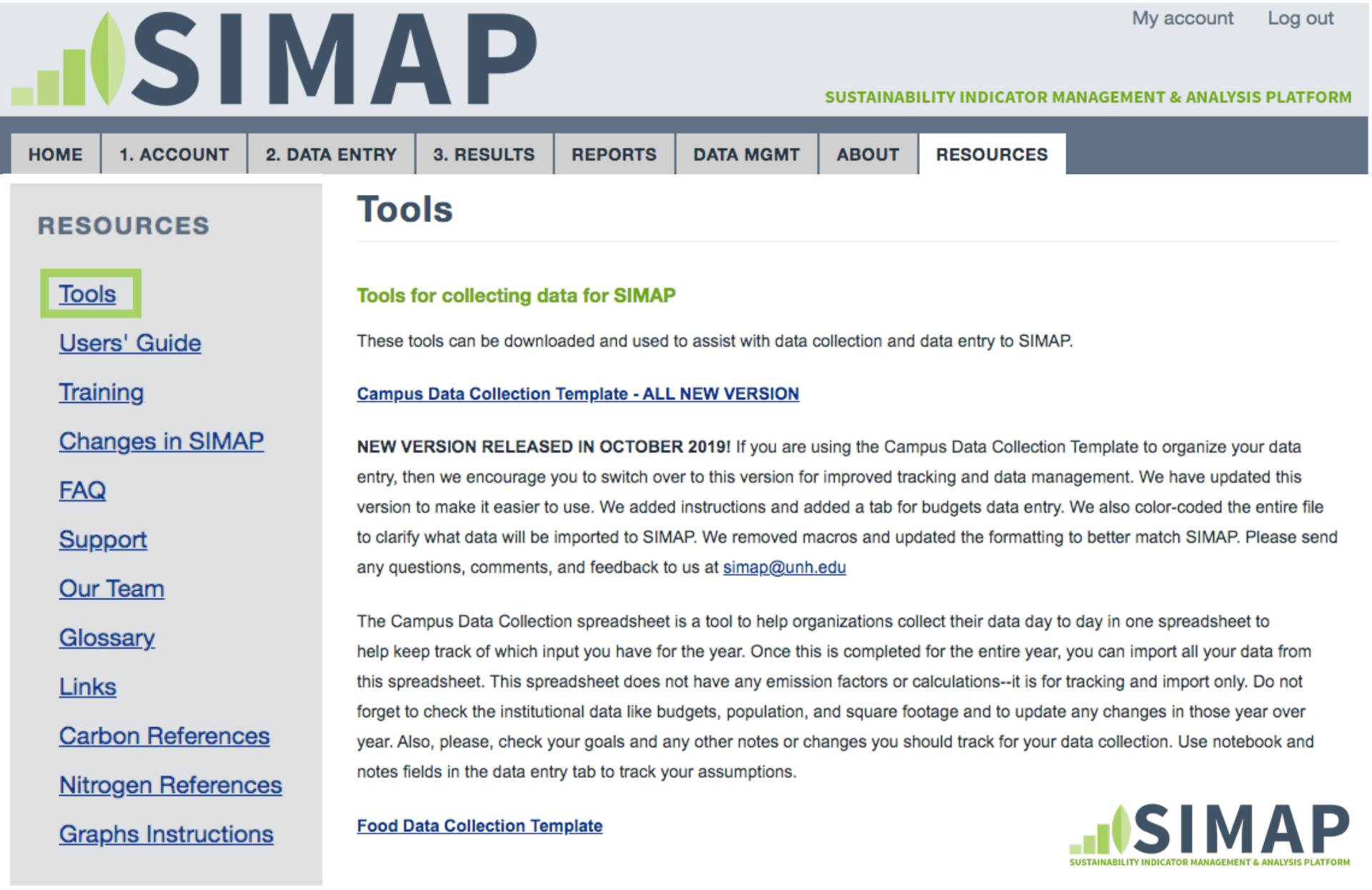
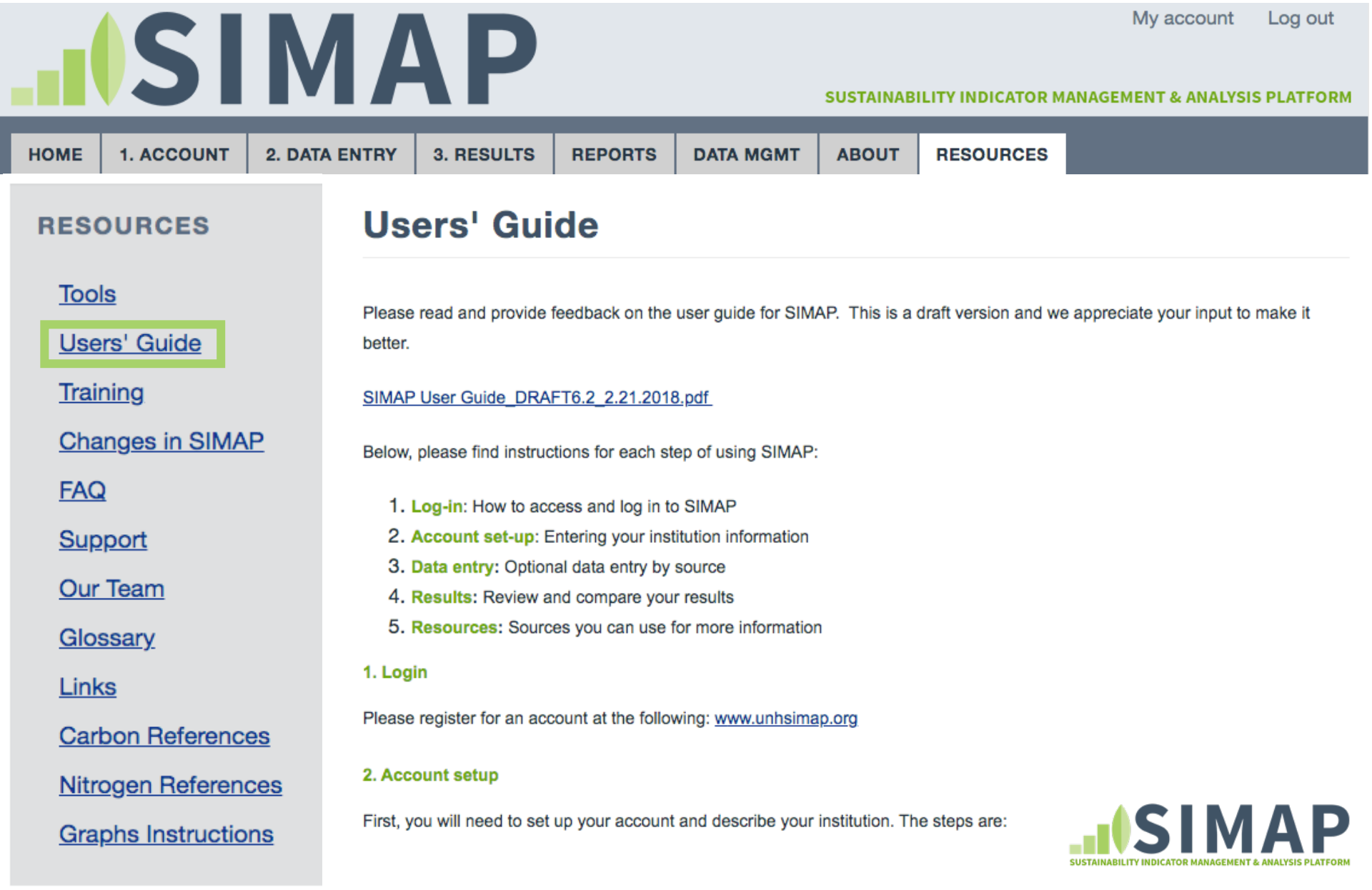
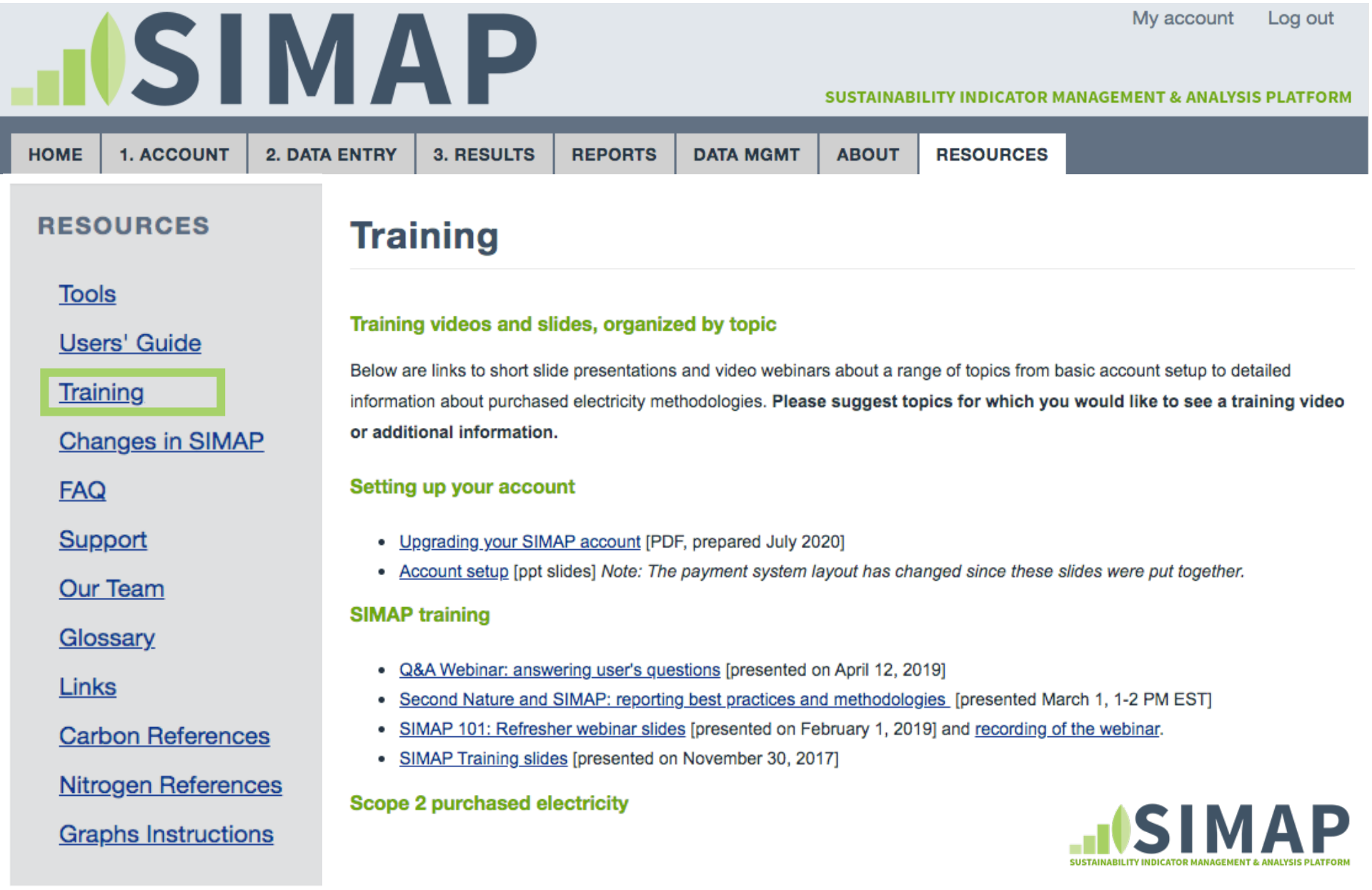
Resources tab



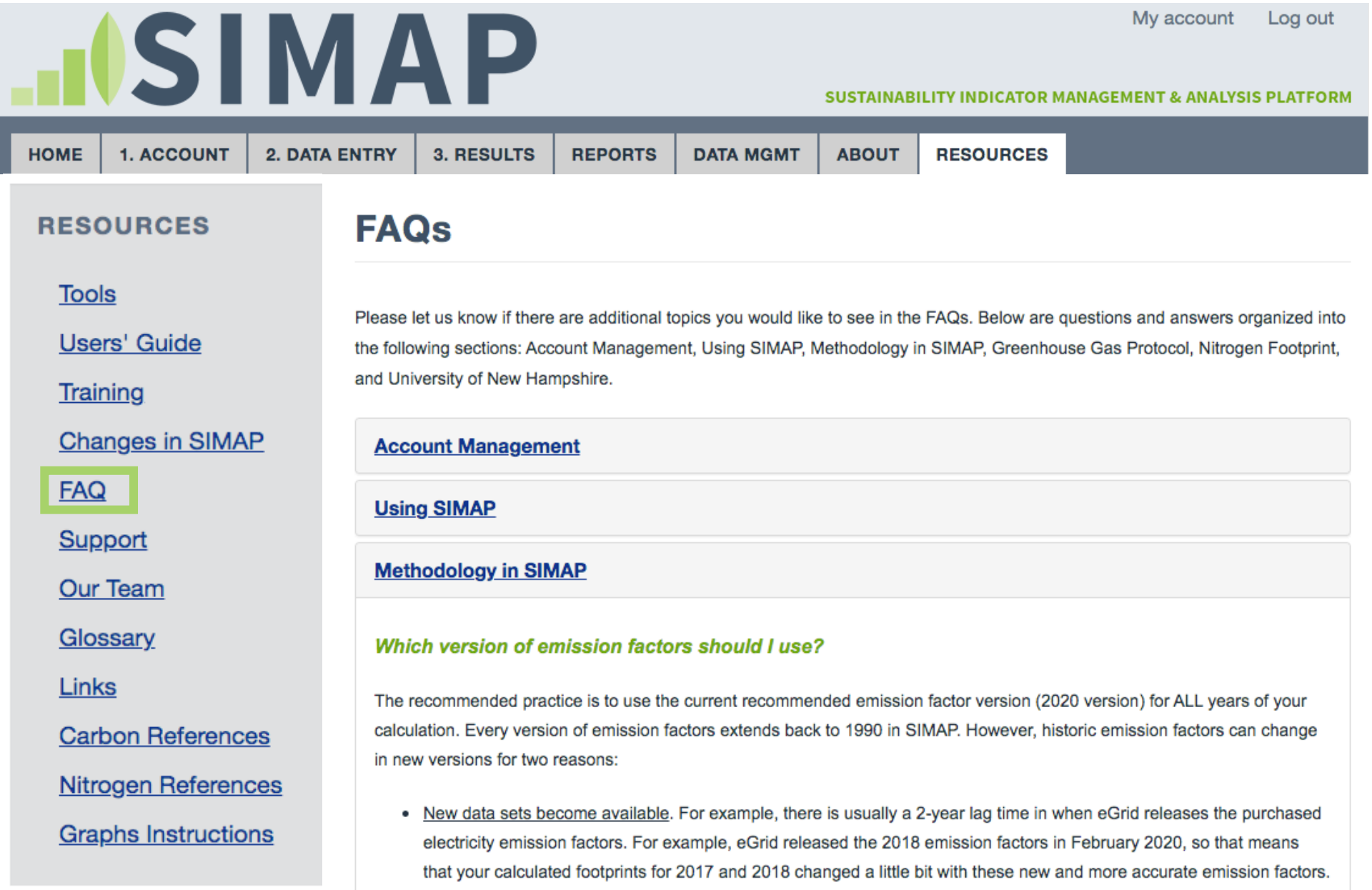
Resources tab



Resources tab



Resources tab



Request a Data Review

Why do a Data Review with the SIMAP team?

- Structured and systemic evaluation of your data in SIMAP, your results, and any imported files

- Identifies:
  - Outliers
  - Gaps
  - Inconsistencies
  - Errors

- Includes a 1-hour video call to discuss your inventory

- Earn 0.625 AASHE STARS points as an independent validation/verification of your institution's GHG inventory!

stars®
a program of aashe

Data Review Process has 4 steps:

1. If you upgraded your SIMAP account after July 1, 2020, please purchase a data review as an add-on service
2. Fill in the Excel-based Data Review Template and email the file to simap@unh.edu
3. Fill out the request form (found on the Data Review page)
4. We will schedule a joint review to go over our findings and provide any recommendations

Check out a 5-minute video about Data Reviews, which can be found on the Data Review page and the Training page

Data Review Template

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SIMAP Data Review: Instructions

Campus	
Contact name	
Email	
SIMAP reviewers	
Date completed	

There are four phases of the review process:

1) User review: The user checks and fills out the questions highlighted in blue cells, including providing some information about boundaries and reporting and sharing the data entry method (e.g., a spreadsheet with original data). Save this document with the name of your institution and the date it was completed. Then please email this document to **simap@unh.edu**.

2) Schedule an appointment: To schedule the appointment, please, fill out the request for appointment form.

3) SIMAP staff review: After we receive the documents, SIMAP staff will fill out the portions of the document "SIMAP staff to review before the appointment" [highlighted in green] using your information.

4) Joint review: After completing the user and SIMAP staff review, we will schedule a conference call to go over the data and fill in the remaining section "Review together during the appointment" together [highlighted in

Please be sure to let us know if you need to complete your data review before a specific reporting deadline. As always, please let us know if you have any questions at simap@unh.edu

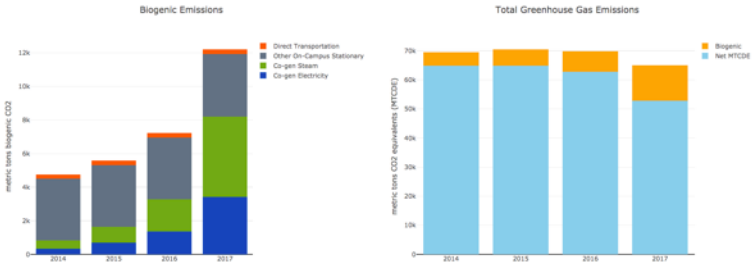
Working groups

Commuting Working Group

Co-facilitated with Second Nature

Bioenergy Working Group

Co-facilitated with Second Nature



Nitrogen Working Group

Co-facilitated with University of Virginia

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NITROGEN WORKING GROUP

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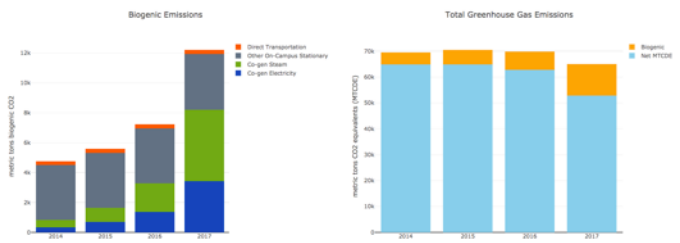
Summary

New functionality

- Biogenic
- 2020 version of emission factors
- 20-year GWP
- Air travel methods
- And more!



How SIMAP can help

- Resources tab
- Data reviews
- Working groups
- Contact us at simap@unh.edu

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www.unhsimap.org

Questions?

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Contact: simap@unh.edu