



SIMAP[®] 101

Review and refresh on the carbon and nitrogen
accounting platform



UNH Sustainability Institute



Introduction



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These training slides will be posted on
<https://unhsimap.org/cmap/resources/training>

Agenda

1. Background

History, goals and methods

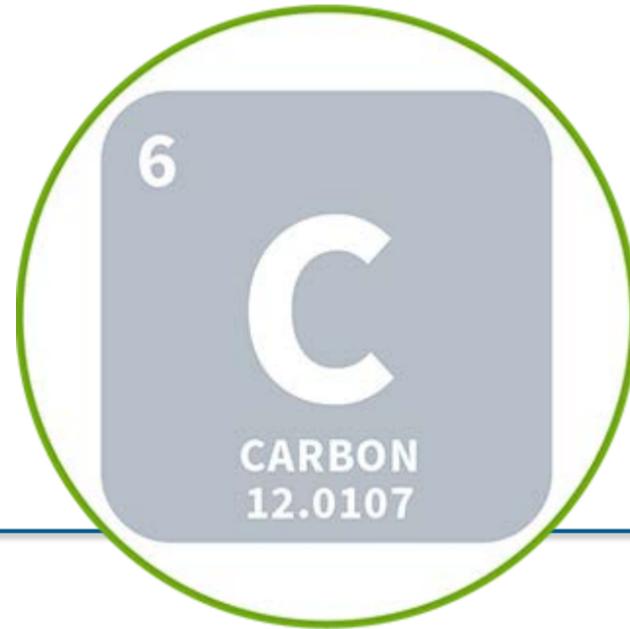
2. Data entry and customization

Navigating the tool

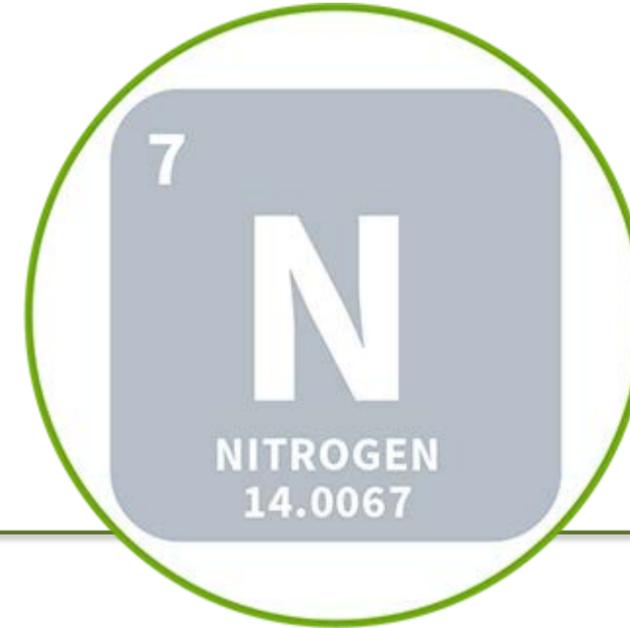
3. Results and reporting

Managing data, utilizing outputs and accessing support

What is SIMAP?

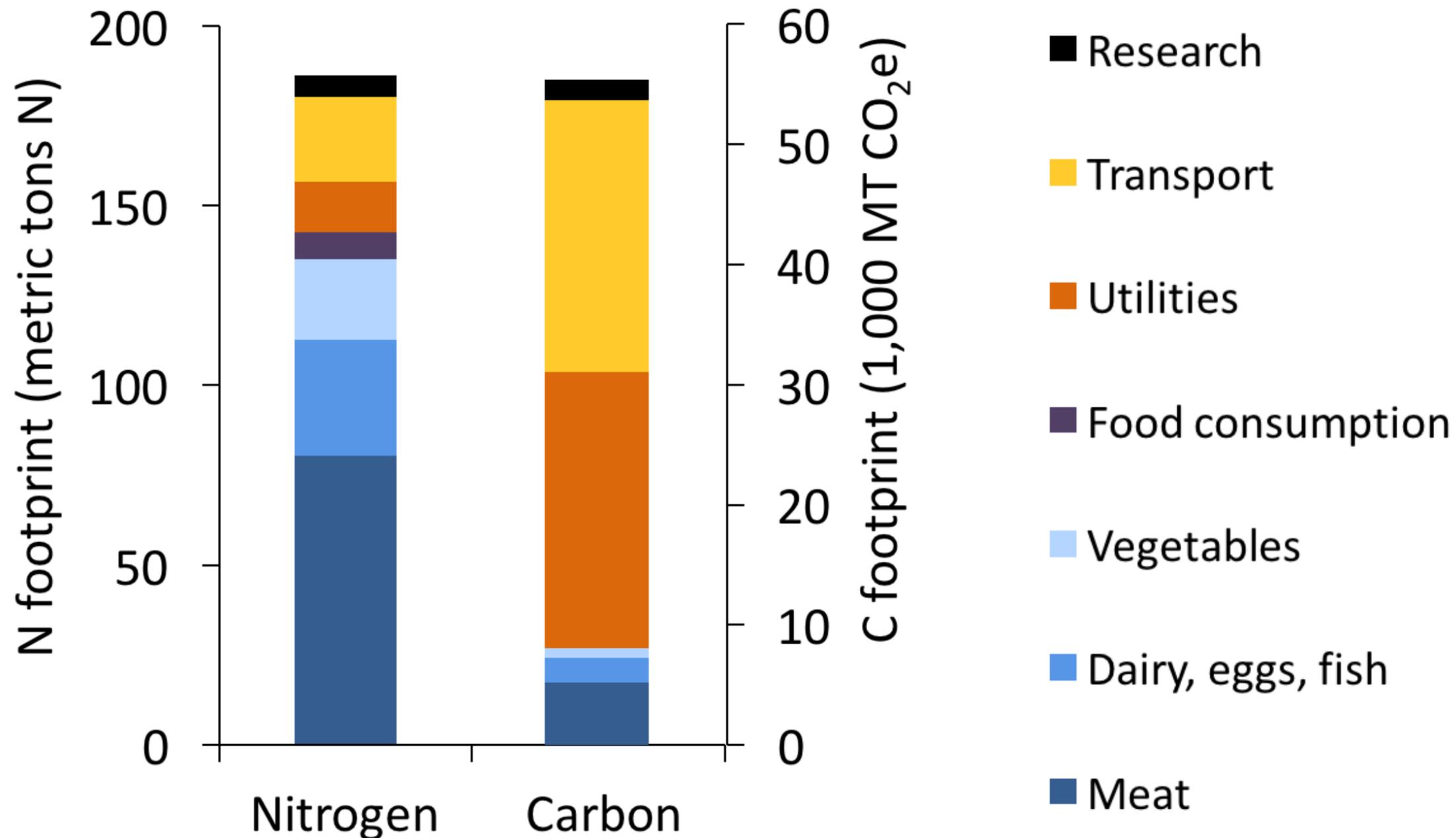


- Developed in 2001 at UNH
- Excel and web version
- Used by **thousands** of institutions



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

What is a nitrogen footprint?



Food is key sector for nitrogen

Energy sectors are key sector for carbon

Protocols, Standards and Partners

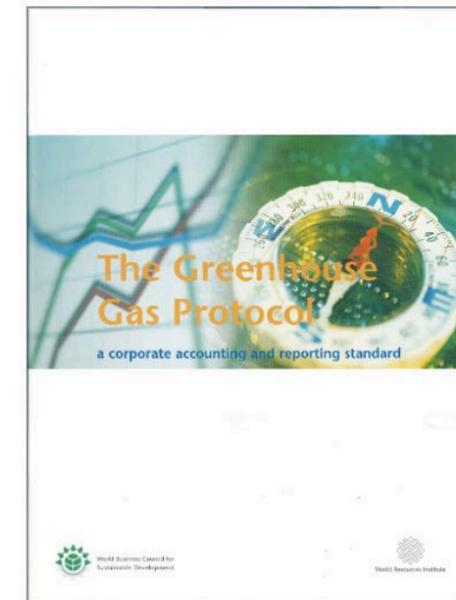
Scientific Modeling

Intergovernmental Panel on Climate Change (IPCC)
Nitrogen Footprint Network



Accounting

GHG Protocol



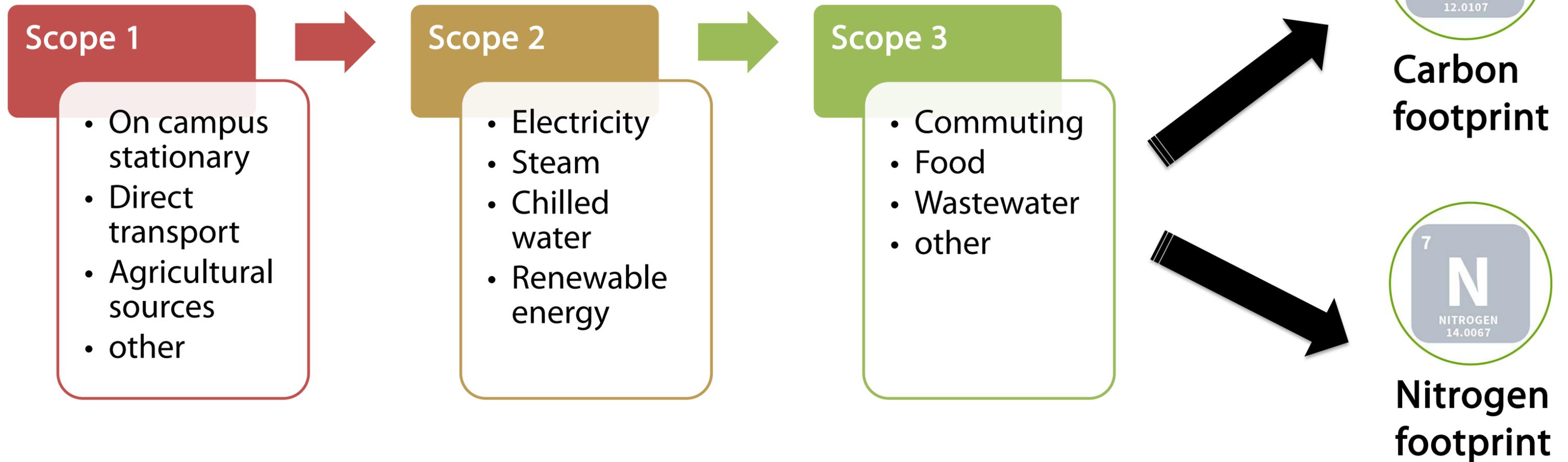
Reporting

Second Nature
AASHE



How does SIMAP work?

Enter your inventory data:



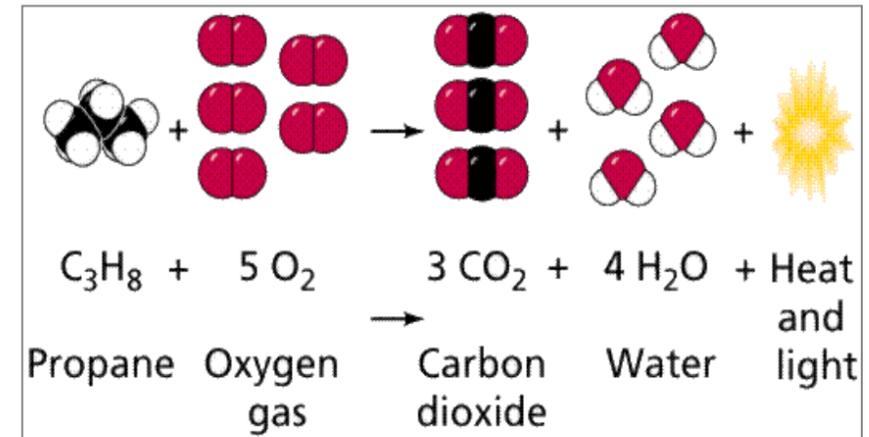
Calculations

Activity Data



X

Emissions Factor



= Emissions from a given source

Weight and total these for:

1. Metric Tons Carbon Dioxide Emissions (MTCDE) or
2. Metric Tons Nitrogen (N)

Key Concepts

- Boundaries
 - Organizational Boundaries (Equity vs Control)
 - Operational Boundaries (i.e. Scopes)
 - Temporal Boundaries (i.e. Baseline)
- “Anthropogenic” vs Biogenic Emissions
- “De Minimus” Threshold
- Global Warming Potential

What is different from CCC and CarbonMAP?

Updated Methodology

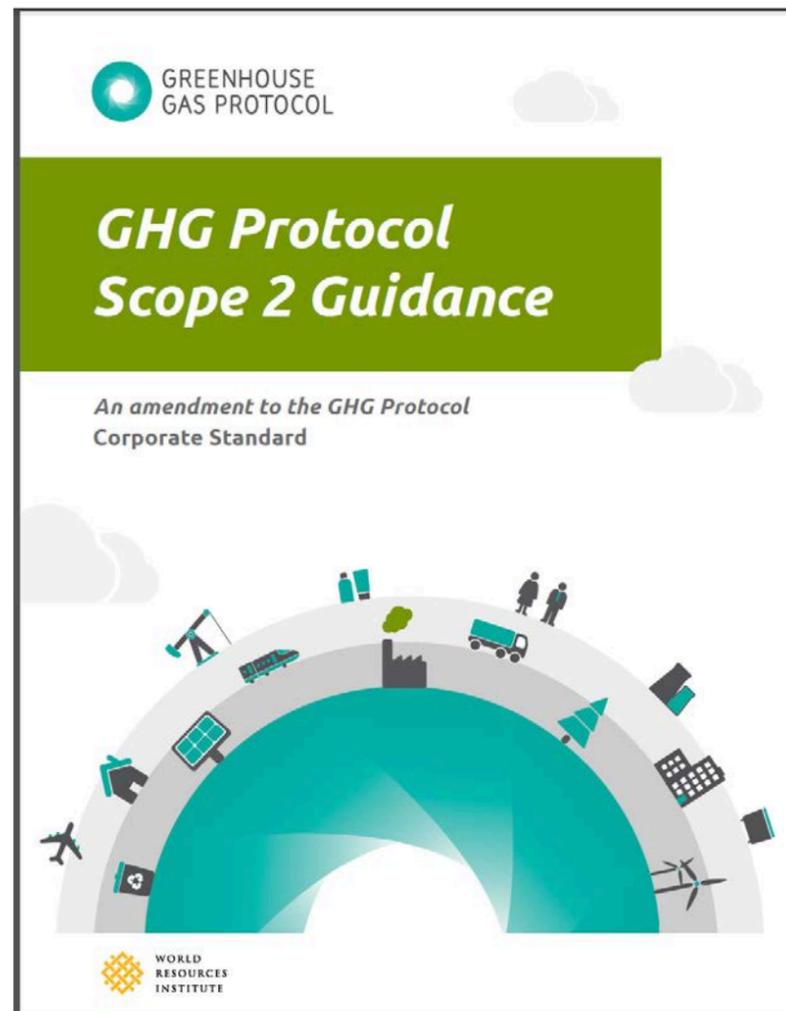
- Scope 1: On-site renewable energy
- Scope 2: Purchased and sold renewable energy
- Scope 3: Commuting (and student travel to/from home), Air Travel
- Biogenic allocation for incinerated waste
- Sinks and offsets
- Weighted campus users

Emission Factors

See 'Resources' tab in SIMAP for details and future updates

Methodology Change: Scope 2

Organizations are now required to do two approaches to calculation and reporting, then select one for use in CAP:



Location Based

Shows the actual emissions of electricity consumption from a specific grid region

Market Based

Captures the impact of specific supplier relationships and voluntary participation in renewable energy markets and programs

Functionality

Feature /Level	Basic	Tier 1
Cost	Free	\$350 per year
Data access	2 months	One Year
Data import/export	N/A	Available from 3 formats
Sectors	Existing scopes 1-3	Existing scopes 1-3
Support level	Basic technical	Advanced
Emission factors	Basic	Customized
Report template	N/A	Two report formats
Data review	N/A	Data review by UNHSI

Development plans

1. Tier 2
 - Multi-campus accounts – beta testing in February
 - Complete scope 3
2. Annual Emission Factor Updates
3. Future Possibilities
 - Projections and Solutions
 - Additional “indicators”
4. User-driven Evolution

Why SIMAP?

Because it's....

- Efficient
- Credible and accurate
- Aligned with other platforms
- Transparent, customizable and user- friendly
- Contributing to a Sustainable Learning Community, and Higher Ed Leadership

USER LOGIN

Username *

Password *

▶ **CREATE NEW ACCOUNT**

▶ **REQUEST NEW PASSWORD**

→ **LOG IN**

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!

www.unhsimap.org

NEWSFEED

January 22, 12-1 EST: Reporting with SIMAP: overview and refresher webinar. [Register here.](#)

[Request](#) projections for food reduction scenarios tool for nitrogen and carbon.

Check out the [AASHE webinar](#) presented on 10/17/18 on importance of food data collection and how to do it in SIMAP.

SIMAP data review appointment request and data review document are on our [Support page](#).

Graphs are now interactive! Check them out on the [results tab](#) and review [the user guidance](#) for how to use them.

Account Setup

Please see a detailed training presentation about how to setup and upgrade your account on our training page:

<https://unhsimap.org/cmap/resources/training>

Account: Institution information



[My account](#) [Log out](#)

SUSTAINABILITY INDICATOR MANAGEMENT & ANALYSIS PLATFORM

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ACCOUNT MANAGEMENT

[Institution](#)

[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.

Data entry: landing page



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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](#)

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.

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

Data entry: Other sectors

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SCOPE 2

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SCOPE 3

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[Business Travel & Study
Abroad](#)

[Student Travel to/from
Home](#)

[Food](#)

[Paper](#)

[Waste & Wastewater](#)

SINKS

[Compost](#)

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Sequestration](#)

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CALCULATION FACTORS

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[Utility Emission Factors](#)

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[Global Warming Potential](#)

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Data entry: manual

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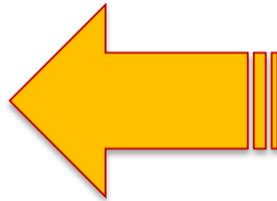
[Fertilizer](#)

[Animals](#)

[Refrigerants & Chemicals](#)

Scope 1: Stationary Fuels Data

ENTER DATA



Filter by start date \geq YYYY-MM-DD

Filter by end date \leq YYYY-MM-DD

Filter by source

- Any -



FILTER

For manual data entry,
click on the enter data button

Click column headers to change sorting.

Start Date ▾	End Date	Category	Source	Label	Quantity	Unit	Confidence	Action
2016-07-01	2017-06-30	On-Campus Stationary Sources	LPG (Propane)	CCC: LPG (Propane) 2017	84,875.00	US gallon	Medium	Edit Delete
2016-07-01	2017-06-30	On-Campus Stationary Sources	Other	CCC: Cogen Other 2017	590,746.00	MMBtu	Medium	Edit Delete

Data entry: Scope 1 stationary (for on-site renewables)

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If you generate renewables on your campus:

- Report any on-campus renewable generation in Scope 1 stationary
- Indicate whether you retain/own RECs for this installation in Scope 1 stationary

If there are RECs purchases or sales, where do you enter the purchase or sale of those RECs?

---> Scope 2

Data entry: Scope 2 utilities & renewables

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[Utility Consumption](#)

[Renewable Energy](#)

REQUIRED for all users:

- Total electricity consumption from the grid (kwh)

REQUIRED if you have renewable purchases or sales:

- Enter renewable kwh (purchased or sold) in scope 2 data entry
- Note: This WILL BE duplicative data entry

This is a change from location-based to market-based accounting, according to updated GHG Protocols

Data entry: Food

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1

REQUIRED food data entry:

- Date range
- Label (descriptive text)
- Food category 1
- Weight
- Unit (kg, lb)

2

OPTIONAL food data entry:

- Vendor name
- Organic
- Local
- Food category 2 & 3 (multi-ingredient)
- Dollars
- Confidence level
- Notes

3

FOOD SCALING FACTORS

For more information:

- User's Guide (Resources tab)
- Food Template (Resources tab)

Data entry: food uploader

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Food data entry

**Required field in SIMAP*

Start date*	End date*	Label*	Weight*	Unit*	Organic	Local	Category 1*	Category 2	Category 3	Vendor

DATA MANAGEMENT

[Status](#)[Import](#)[Export](#)[Delete Year](#)

Import

Note: Years in the upload are treated as fiscal years based on the s 07-01 to 2017-06-30.

Upload File

Choose File No file chosen

Type *

- Campus Carbon Calculator v7.0 - 9.1
- Food Template
- CarbonMAP zip file

[UPLOAD](#) [Cancel](#)

Data entry: Sinks and offsets

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SINKS

[Compost](#)

[Non-Additional Sequestration](#)

[Offsets](#)

Composted by *

- Campus
- Third party provider

Used as soil amendment on campus? *

- Yes
- No

Add Offsets Data

[Home](#) / [Offsets Data](#) / Add

Source *

Select source

Origination *

- Third-party project developer (i.e., Purchased)
- On-campus, by institution or through partnership (i.e., Produced)
- Off-campus, by institution or through partnership (i.e., Produced)

Type *

- Land-based (e.g., afforestation, reforestation)
- Other (e.g., anaerobic digester, community energy project)

Verification *

- Third party verified
- Peer-reviewed
- Unverified

Data entry: calculation factors

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CALCULATION FACTORS

[Emission Factors](#)[Utility Emission Factors](#)[Food Conversion Factors](#)[Global Warming Potential](#)[Unit Conversions](#)

Food Conversion Factors

This table provides conversion factors used in the food calculations. The nitrogen content is based on the protein content of food (protein is 16% nitrogen), "Conventional" describes the food production nitrogen loss factors used for conventional food, "Organic" describes the food production nitrogen loss factors used for organic food, "Miles" describes the average number of miles that food travels to be consumed, "Waste" is the average % of food waste by food category, and "Truck capacity" is used to calculate how many trips are necessary to deliver your food. These factors cannot be edited in the current version of SIMAP, but please let us know if you would like to modify any of them.

Version: 2017

Food Category	Nitrogen Content	Conventional virtual N factor (kg N loss / kg N food)	C footprint (kg eCO ₂ / kg food)	Food transport distance (miles)	Local food transport (miles)	Food waste	Truck capacity (kg)
Meat: Chicken	0.02782	4.2	5.05	950	250	0.15	22700
Meat: Pork	0.02825	4.7	6.87	950	250	0.15	22700
Meat: Beef	0.02916	11.3	26.45	950	250	0.15	22700
Dairy & eggs: Milk	0.00633	3.1	1.34	250	250	0.15	22700

Data entry: customization – *Tier 1 only*

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Emission Factors

[Home](#) / Emission Factors

A unique value for scaling emissions to activity data in terms of a standard rate of emissions per unit of activity (e.g., grams of carbon dioxide emitted per barrel of fossil fuel consumed).

Scope *

1

Source *

On-Campus Stationary Sources: Natural Gas

Emission Type *

CO2

Note: Customizations are to this EF version only.

Version: 2017

Year	Default	Unit	Custom
1990	52.98333333	kilogram CO2 / MMBtu	<input type="text"/>

- Use this section to customize the existing EFs or add custom chemicals or refrigerants.
- Customize utility EFs on separate page
- Customize fuel mixes under Scope 2 data entry.

Results: select parameters

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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 *

2025 - 2025

Normalization

None

CALCULATE

Results: scopes selection

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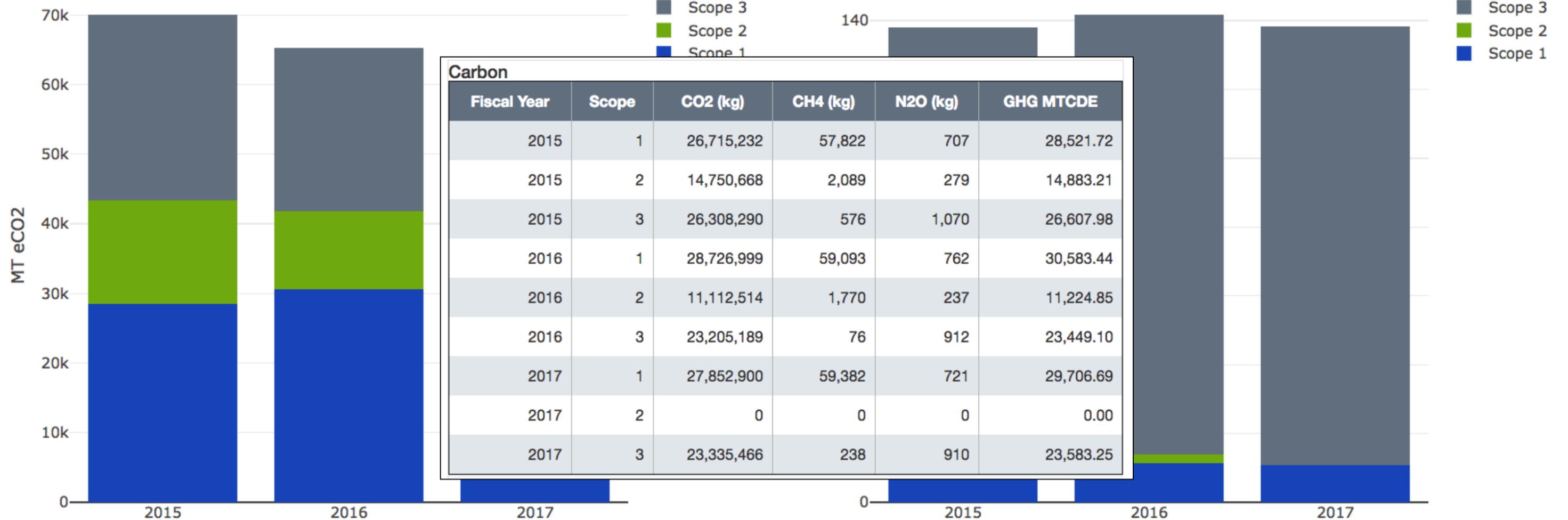
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The results display in a graph and a table below.

Results: categories selection

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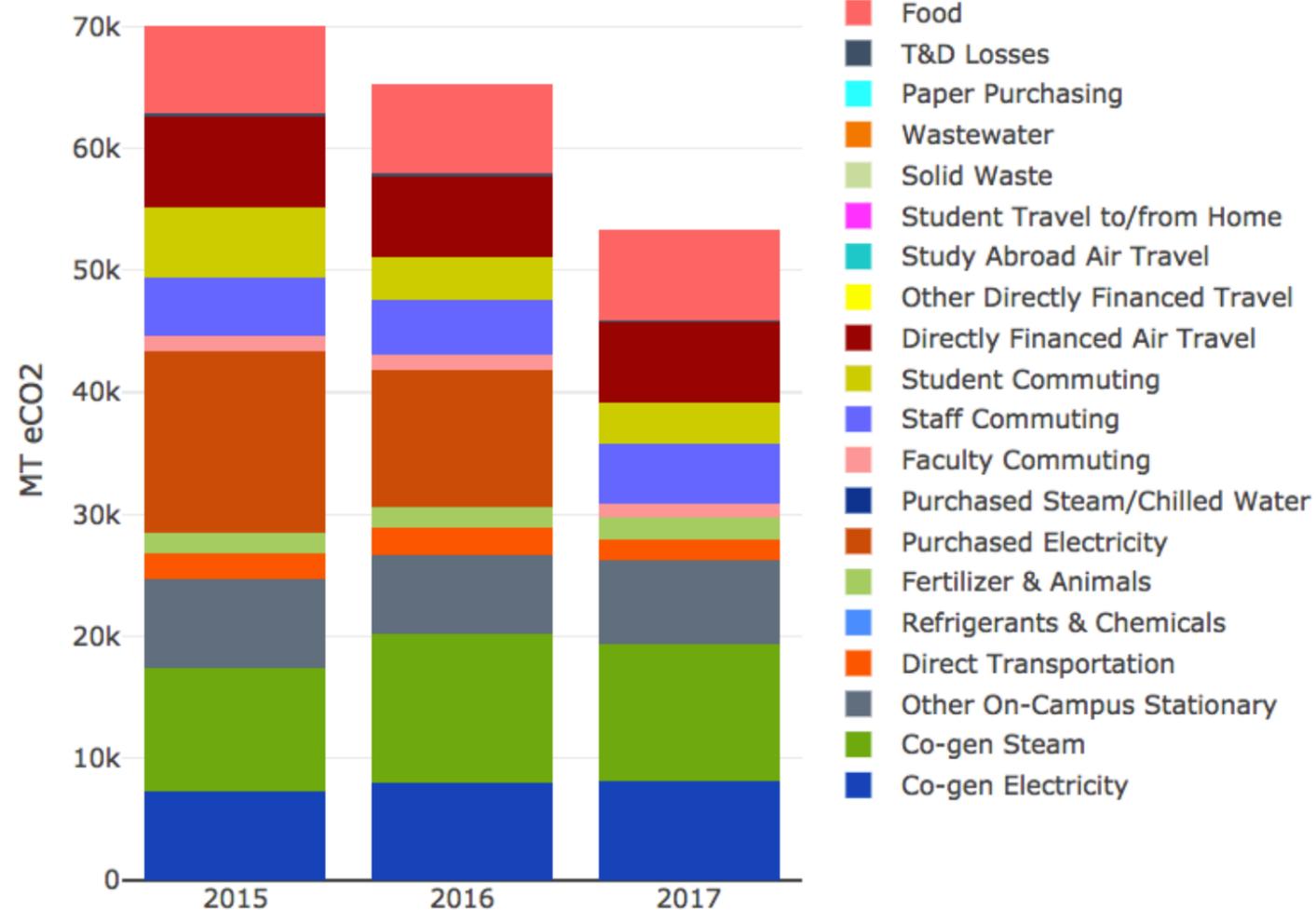
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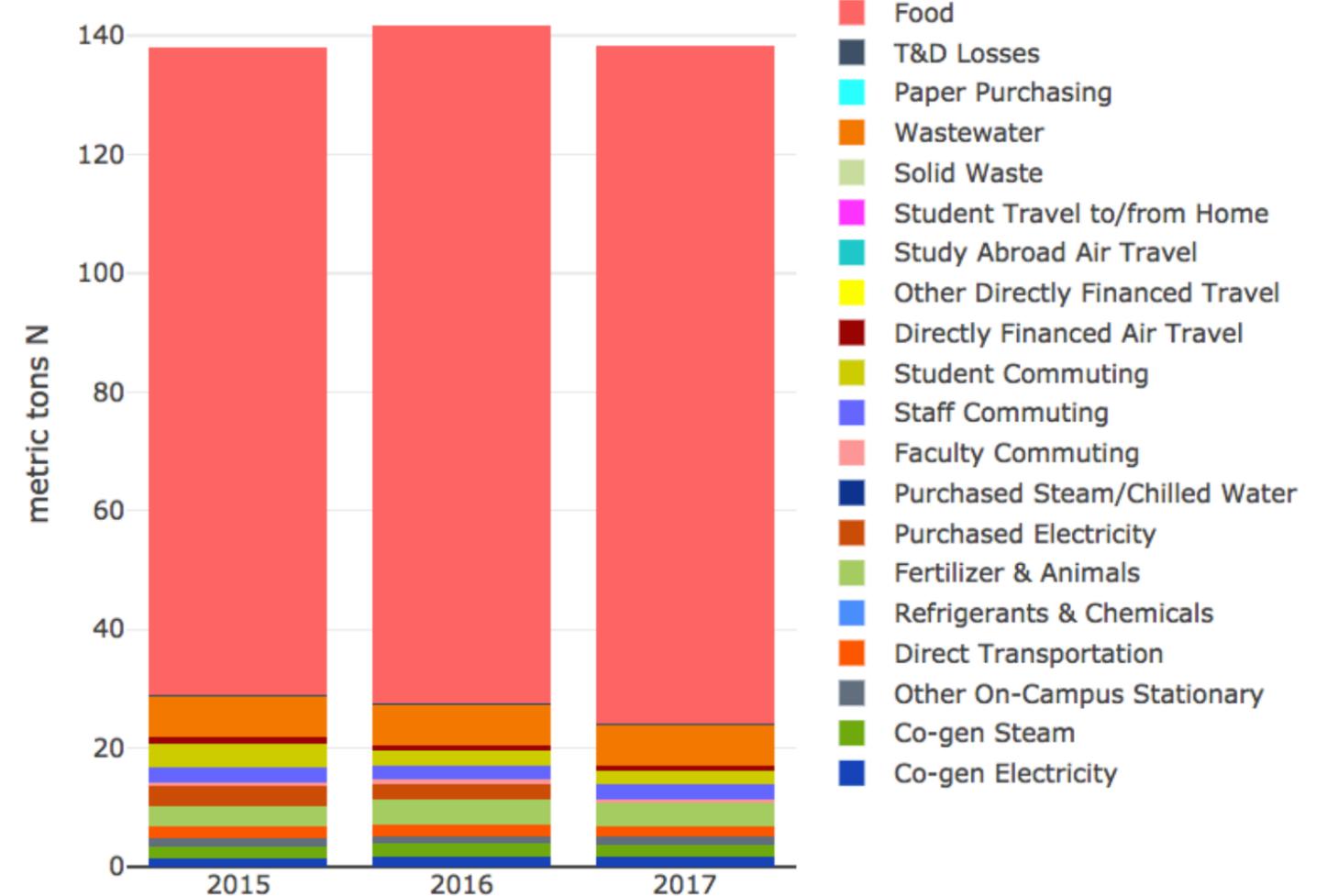
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The results display in a graph and a table below.

Annual Report – *Tier 1 only*

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Annual Report

Footprint *

Carbon Nitrogen

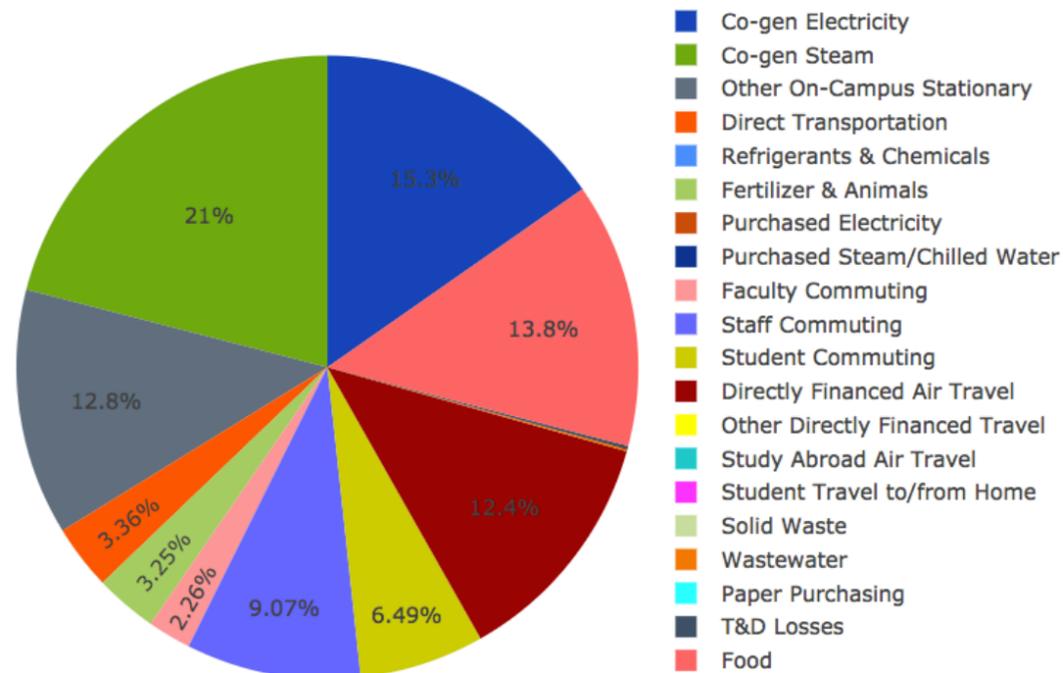
Year *

2017

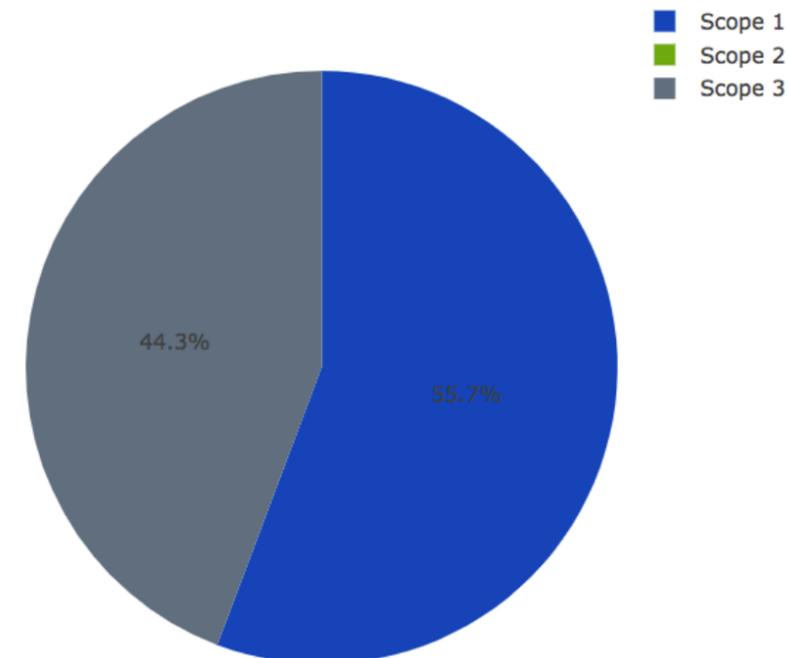
DISPLAY

EXPORT

Carbon: 2017



Carbon: 2017



- The reports tab provides an overview for an entire year.
- You can export the tables
- This is equivalent to the S_Annual tab in CCC

Second Nature Report – *Tier 1 only*

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Reports

Using Market-Based Scope 2 Method. ✕

Report

Year *

Second Nature 

2017

DISPLAY

EXPORT

Categories

Fiscal Year	Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
2017	1	Fugitive Emissions	0	0.00	56,400	1,579.21	575	152.36	1,731.57
2017	1	Mobile Combustion	1,762,268	1,762.27	300	8.40	82	21.76	1,792.43
2017	1	Stationary Combustion	26,090,632	26,090.63	2,682	75.09	64	16.97	26,182.69
2017	3	Air Travel	6,614,728	6,614.73	66	1.83	75	19.98	6,636.55
2017	3	Commuting	9,295,360	9,295.36	1,779	49.82	603	159.86	9,505.04

- This report tab provides an overview of the data for Second Nature reporting platform.
- Go to <https://secondnature.org/signatory-handbook/simap/> for instructions on how to export the data into the Second Nature reporting system.

Data management: calculation methods

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[Export Data](#)

[Delete Data](#)

Calculation Sources and Methods

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](#)

Emission Factors Version ⓘ

2017

Global Warming Potential Version

AR5

Scope 2 Method ⓘ *

Market-Based Location-Based Custom Fuel Mix

✓ SAVE

Important method selections in Data Mgmt include:

- Select your NERC region for eGrid
- Emissions factors version
- Purchased electricity method
- Global warming potential version

Data management: status

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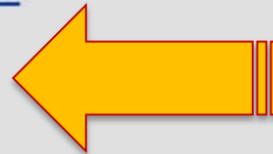
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Status

Please check the appropriate boxes and save your selections when the inventory for those years is complete. Checking a box does not change any of the calculations, it just indicates that all available data for that year has been entered.

Years with data

- 1990
- 1991
- 1992
- 1993
- 1994
- 1995

**Check the status box for your completed years of inventory.
This is required to enable the Second Nature API export.**

Data management: import data – *Tier 1 only*

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Import

Note: Years in the upload are treated as fiscal years based on the setting for your institution. Your fiscal year starts on Jul 1st, so FY 2019 is from 2018-07-01 to 2019-06-30.

Upload File

Choose File No file chosen

Type *

- Campus Carbon Calculator v7.0 - 9.1
- Food Template
- CarbonMAP zip file

UPLOAD [Cancel](#)

Import Log

Filename	Type	Success	User	Imported▼
SIMAP_Food template_UNH_2017.xlsx	food	Yes	Alley Leach	2018-06-11 15:38:24
SIMAP_Food template_UNH_2015.xlsx	food	Yes	Alley Leach	2018-06-07 18:10:12

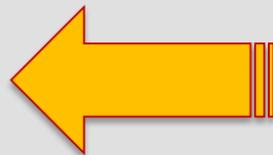
You can import data from several sources:

CCC and CMAP; a data collection file on the Resources page; and the food template

Data management: export data – *Tier 1 only*

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Export

Click the buttons below to export your inventory and emissions factors and your results. You will download a zip file that contains several spreadsheets tracking your inventory, emissions factors, and results in different formats (e.g., by gas, by source, by scope).

[EXPORT YOUR DATA AND EFS](#)[EXPORT RESULTS](#)

On this page you can export ALL the data used to calculate your footprints,
including:

Inventory data entered; Emissions factors used; Your results

Data management: delete data – *Tier 1 only*

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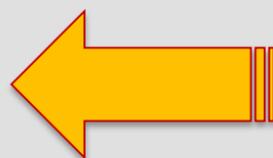
[Status](#)

[Import Data](#)

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[Export Data](#)

[Delete Data](#)



Delete Data

This is an irreversible action. ✕

Year *

Enter the year for which you want to delete all data.

Types of data to delete *

- Scope 1
- Scope 2
- Scope 3: Commuting
- Scope 3: Student Travel to/from Home
- Scope 3: Food
- Scope 3: Other
- Sinks
- Custom EFs
- Custom Fuel Mixes
- Normalization Data

 DELETE

- Here you can delete data by year and type.
- Important: This action is irreversible.

Resources

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[Nitrogen References](#)

[Graphs Instructions](#)

Tools

Tools for collecting data for SIMAP

These tools can be downloaded and used to assist with data collection.

[Food Data Collection Template](#)

Please use this spreadsheet to collect the food data. You can then upload the data to the system for input.

[Collecting and Analyzing Your Food Data](#)

This document has helpful tips for how to collect and analyze your food data.

[Campus Data Collection Template](#)

Resources tab includes:

- Tools, user guidance, and training to assist with collecting inventory.
- Documentation and references on the methods and references (in progress).

SIMAP ongoing work

February

- Multi-campus beta testing
- Launch 2 working groups: Commuting & Biomass

Ongoing

- Updating references and methods documentation
- User data reviews
- Support

SIMAP communication and outreach

February

- Quarterly updates newsletter
- Webinar with Second Nature (date TBD)
- Monthly emails about renewals

March

- Webinar Q&A with users (date TBD)

Contact us any time with questions at simap@unh.edu

Questions?



Questions to ponder

- the drivers of both footprints, complementary mitigation strategies,
- how schools approached goal setting or commitments for both
- will you report the carbon footprints and nitrogen footprints separately, and approach goal-setting separately, or might you do one annual report with both indicators?
- Would you start talking about the nitrogen and carbon benefits of various campus initiatives “side-by-side” as a matter of course? The question is, if the calculation of the two things are now integrated in the tool—but will we also try to USE them in an integrated fashion? And if so what would that look like?



SOCIAL



ENVIRONMENTAL



ECONOMIC

Account: set up your account

User account

[Create new account](#) [Log in](#) [Request new password](#)

Username *

E-mail address *

Your Institution *

This will be the official account for this institution.

To set up your user account, check the official institution button, then read and accept the user agreement.

Official Institution designation means that your data will be a part of the aggregated data set.

All others are considered test institutions.

User Agreement

By using the University of New Hampshire (UNH) SIMAP carbon and nitrogen calculator ("SIMAP"), accessible on the Sustainability Indicator Management and Analysis Platform (SIMAP) site located at UNHSIMAP.org (the "Portal"), you are agreeing to specific terms and conditions set forth below.

IMPORTANT-READ CAREFULLY BEFORE USING: This is an agreement (this "Agreement") between you, whether acting as an individual

Data entry

HOME

1. ACCOUNT

2. DATA ENTRY

3. RESULTS

REPORTS

DATA MGMT

RESOURCES

SCOPE 1

[Stationary Fuels](#) ▾

[Cogen Efficiency](#)

[Transport Fuels](#)

[Fertilizer](#)

[Animals](#)

[Refrigerants & Chemicals](#)

[Home](#) / [Inventory](#) / Add

Source *

On-Campus Stationary Sources: Coal (Steam Coal)

Select category *

Co-gen

Non co-gen

Date Range *

2016-07-01

2017-06-30

E.g., 2017-09-22

E.g., 2017-09-22

Label *

Coal (Steam Coal) 2017 [default label] - Power Plant 1 [your label]

For your own reference. Default provided upon source selection. Feel free to change it.

Unit *

short ton

Confidence

High

For your own reference. Your selection has no effect on the calculations.

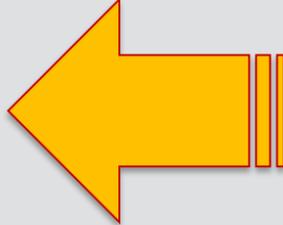
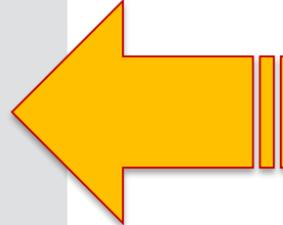
Optional Notes

Info came from the power plant on campus from the facilities, John Bourne

- Source: Select from drop-down
- Label: This can be anything to help identify the item
- Select unit of measurement
- Quantity of source
- Notes

Account: basic vs tier 1

Basic	HOME	1. ACCOUNT	2. DATA ENTRY	3. RESULTS	DATA MGMT	RESOURCES	
<ul style="list-style-type: none"> 1. Calculation of your GHG and nitrogen footprint 2. Manual data entry 3. No ability to customize any emissions factors 			CALCULATION FACTORS Emission Factors Utility Emission Factors Food Conversion Factors Global Warming Potential		DATA MANAGEMENT Status Delete Year		
Tier 1	HOME	1. ACCOUNT	2. DATA ENTRY	3. RESULTS	REPORTS	DATA MGMT	RESOURCES
<ul style="list-style-type: none"> 1. Reports 2. Customization of EFs and global warming potential 3. Import of data and 4. Export of all source data and EFs and of results 			CALCULATION FACTORS Emission Factors Utility Emission Factors Food Conversion Factors Global Warming Potential Unit Conversions			DATA MANAGEMENT Status Import Export Delete Year	



 EXPORT YOUR DATA AND EFS

 EXPORT RESULTS