

Interpreting Animal Agriculture Report

Single Year Accounting:

Project Summary

Three animal categories assessed: dairy-heifer replacements, dairy-dry cows, dairy-lactating cows. Each category included a single herd. All categories shared an anaerobic lagoon as the primary liquid manure treatment method in the baseline scenario which was converted to an anaerobic digester in the second scenario. All other management remained the same between scenarios.

Step 1 Activities | Step 2 Animal Agriculture | Step 3 Report

Animal Agriculture | Animal Agriculture Graphical Report | Tabular Report

NAME: Haley Nagle | PROJECT: Animal Ag Demo Project | Version: appengine cometfarm v0-1 build 3.2.8297.32867 (09/19/2022 00:00:00) | TIME: 09/19/2022 18:36:41 | USDA United States Department of Agriculture | Colorado State University

Source	Baseline Emissions	Digester Install	
		Emissions	Change
Dairy-Heifer Replacements			
+ Replacements	221.2	128.4	-92.8
Total	221.2	128.4	-92.8
Dairy-Lactating Cows			
+ Lactating Cows	309.4	187.1	-122.4
Total	309.4	187.1	-122.4
Total (all animals)	1707.2	1021.6	-685.6

Scenarios will populate the x-axis

Each animal category will report estimated emissions separately. Estimated emissions by herd (available for cattle only) will appear below each respective category.

Total annual tonnes CO2 equivalent per year by herd for each scenario (black) and change in emissions compared (green) to baseline.

Total annual tonnes CO2 equivalent per year by animal category for each scenario (black) and change in emissions compared (green) to baseline.

Change in annual tonnes CO2 equivalent per year for scenario management compared to baseline management.

Annual tonnes CO2 equivalent per year for baseline management. | Annual tonnes CO2 equivalent per year for scenario management.

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Herd level reporting (cattle only)

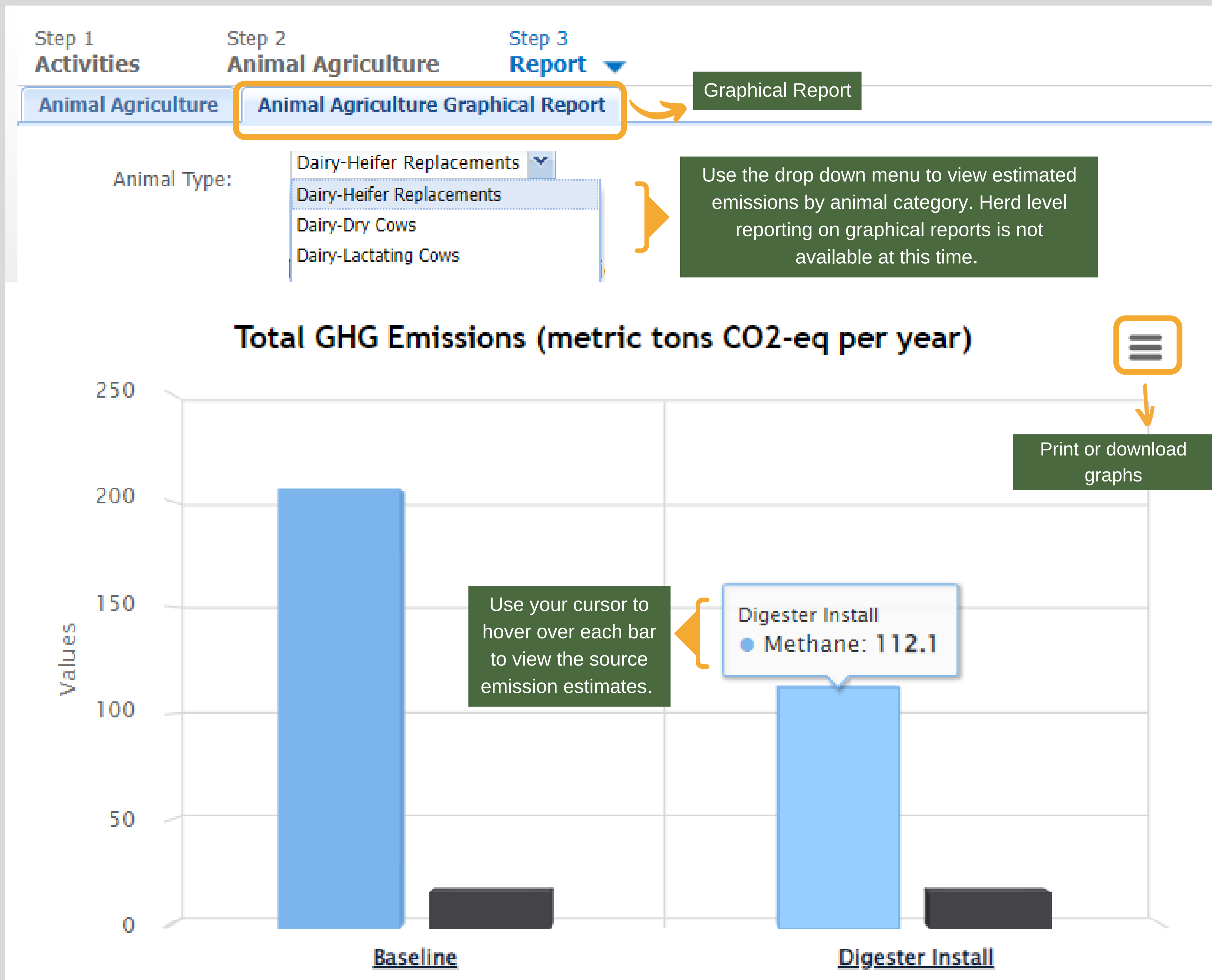
Use the plus button to the left of each herd to extend source and subsource emission estimates. For none cattle animal categories, the subsource categories will appear below each animal category.

Estimated emissions for a shared lagoon are reported under the first herd/animal category.

Source	Baseline Emissions	Digester Install	
		Emissions	Change
Dairy-Heifer Replacements			
+ Replacements	221.2	128.4	-92.8
Methane (tonnes CO2 equiv./yr.)	205.0	112.1	-92.8
Enteric	78.4	78.4	0.0
Housing	0.0	0.0	0.0
Barn Housing	32.2	32.2	0.0
Composting	0.4	0.4	0.0
Anaerobic Lagoon	94.0	0.0	-94.0
Anaerobic Digester	0.0	1.2	+1.2
Nitrous oxide (tonnes CO2 equiv./yr.)	16.3	16.3	0.0
Housing	0.0	0.0	0.0
Composting	16.3	16.3	0.0
Anaerobic Lagoon	0.0	0.0	0.0
Total	221.2	128.4	-92.8

Interpreting Animal Agriculture Report Continued...

Single Year Accounting Graphical Report:



Flexible Year Accounting Report:

Remember: You should only set a baseline period if management varied among animal categories/herds year to year. Example: You would like to assess GHG changes from installing an anaerobic digester in 2016 AND the feed type for your cattle varies year to year. Then you would set your baseline to end in 2015 and management will vary year to year.

A flexible baseline report will look identical to the single year accounting report EXCEPT the report provides the *average annual tonnes of CO₂ equivalent over the defined time period*. For the example above, the baseline period is 2012-2015, so the estimated emissions generated in the report represent the average annual tonnes of CO₂ over the four year period. Any defined scenario in this example is the subsequent ten years, 2016-2025, meaning that the estimated emissions represent the average annual tonnes of CO₂ over the ten year period*.

*Management is required for every defined *herd*, however, herds are not required for every year. Using the same example above with a baseline period 2012-2015: if a producer sells one of their two herds off at the end of 2013, they will not need to enter that herd, and management, in 2014-15. The report, however, will still average the emissions over the entire baseline period (4 years) for all herds.