

Report title
Indicator

GHG Emission Report, v1.1
1.21.4

Instructions

This template is intended for reporting greenhouse gas emissions results to ASC. The Feed Standard does not prescribe a specific standard or set of methods for generating GHG values. However, suppliers should be aware that the development of the Farm Standard requirements may necessitate the application of specific methods for feed emissions in the future.

Emissions can be reported in either or both columns using a biophysical or economic allocation approach. Emissions results must be provided according to scope (1-3) as well as by input/activity, being general feed ingredient categories and additional transport and milling emissions that aren't otherwise captured within ingredients. 'Transport and milling' emissions should be at least equal to the sum of scope 1 and scope 2 emissions. If possible, emissions should also be broken down by category (fossil, biogenic, or land use change), facilitated by certain databases and assessment methods. Any uncategorized emissions should be reported as 'Unspecified emissions' (If feed suppliers are unable to determine emissions by category, the total of all emissions can be reported as unspecified).

This template is also expected to reflect the resolution of data that feed suppliers will need to provide to farms to satisfy feed-related emissions modeling for the Farm Standard. Feed suppliers should be ready to adjust the composition of ingredients used in calculations to reflect typical compositions of feeds relevant to each producer, whether that is on a producer-level or a general species-level (e.g. average ASC-compliant salmon feed composition), so that relevant emissions estimates are available to aquaculture producers for their own calculations.

Only enter data in blue cells.



Table 1. Production year
Year of production (yyyy)

2025

Table 2. GHG emissions by scope
Emissions scope

GHG emissions per tonne of ASC compliant feed (kg CO₂-eq/t)

	Biophysical (mass) model	Economic model
Scope 1	45.10	45.10
Scope 2	22.12	22.12
Scope 3	2835.79	2551.23
Total	2903.00	2618.45

Table 3. GHG emissions by category
Emissions category

	Biophysical (mass) model	Economic model
Fossil emissions	879.24	598.98
Biogenic emissions	52.15	4.90
Land use change emissions	1971.62	2014.57
Unspecified emissions	0.00	0.00
Total	2903.00	2618.45

Table 4. GHG emission by Input / Activity
Input / Activity

	Quantity (kg/t)	Biophysical (mass) model	Economic model
Soy crop inputs	510	2062.20	2267.87
Other crop inputs	280	145.04	106.39
Reduction fishery inputs	60	52.57	37.47
Fishery by-product inputs	40	96.85	18.57
Poultry / livestock inputs	50	407.99	35.23
Other feed inputs	60	38.01	52.57
Transport and milling		100.32	100.32
Total	1000	2902.98	2618.43

Notes

All emissions values must be reported in units of kg CO₂-equivalent per tonne of ASC compliant feed.

Emissions totals for each section should be equivalent.

Total feed input quantity (kg/t) must equal 1000. Use 'Other feed inputs' to make up any difference from 1000 kg. 'Other feed inputs' should also include vitamins, amino acids, and other microingredients.

Transport-related emissions may be difficult to separate from ingredient production and processing emissions, depending on the data source used. Do not include any transport emissions in 'Transport and milling' that are already counted in the emissions of one of the ingredient groups.

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Table 1. Production year

Year of production (yyyy)

2025

Table 2. GHG emissions by scope

Emissions scope

Scope 1

Scope 2

Scope 3

Total

GHG emissions per tonne of ASC compliant feed (kg CO₂-eq/t)

Biophysical (mass) model	Economic model
80.112	80.112
40.259	40.259
3,379	1578.448
3499.647	1698.819

Table 3. GHG emissions by category

Emissions category

Fossil emissions

Biogenic emissions

Land use change emissions

Unspecified emissions

Total

Biophysical (mass) model	Economic model
2144.267	819.539
179.322	3.423
1176.058	875.857
0	0
3499.647	1698.819

Table 4. GHG emission by Input / Activity

Input / Activity

Soy crop inputs

Other crop inputs

Reduction fishery inputs

Fishery by-product inputs

Poultry / livestock inputs

Other feed inputs

Transport and milling

Total

Quantity (kg/t)	Biophysical (mass) model	Economic model
160	645.4096	892.0581
170	115.1728	104.476
0	0	0
340	827.382	159.4647
140	1481.4479	112.5847
190	166.4808	166.4808
	263.7945	263.7945
1000	3499.6876	1698.8588

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