

**Report title** GHG Emission Report, v1.1  
**Indicator** 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)

**Table 2. GHG emissions by scope**

**Emissions scope**

	GHG emissions per tonne of ASC compliant feed (kg CO <sub>2</sub> -eq/t)	
	Biophysical (mass) model	Economic model
Scope 1	4.672	4.672
Scope 2	46.339	46.339
Scope 3	2,838	2493.302
<b>Total</b>	2888.966	2544.313

**Table 3. GHG emissions by category**

**Emissions category**

	Biophysical (mass) model	Economic model
Fossil emissions	919.971	721.575
Biogenic emissions	428.009	302.692
Land use change emissions	1540.986	1502.064
Unspecified emissions	0	0
<b>Total</b>	2888.966	2526.331

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

Input / Activity	Quantity (kg/t)	Biophysical (mass) model	Economic model
Soy crop inputs	391.753	1573.294	1654.903
Other crop inputs	505.154	464.331	559.102
Reduction fishery inputs	0	0	0
Fishery by-product inputs	0	0	0
Poultry / livestock inputs	41.237	595	73.966
Other feed inputs	61.856	54.199	54.199
Transport and milling		114.872	114.872
<b>Total</b>	1000	2801.696	2457.042

**Notes**

All emissions values must be reported in units of kg CO<sub>2</sub>-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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