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)	2024

Table 2. GHG emissions by scope

	GHG emissions per tonne of ASC compliant feed (kg CO_2-eq/t)	
Emissions scope	**Biophysical (mass) model**	**Economic model**
Scope 1	61,043	61,043
Scope 2	31,276	31,276
Scope 3	1.935	1597,979
Total	2027,122	1690,298

Table 3. GHG emissions by category

Emissions category	**Biophysical (mass) model**	**Economic model**
Fossil emissions	1662,468	1210,404
Biogenic emissions	2,439	2,105
Land use change emissions	362,214	477,789
Unspecified emissions	0	0
Total	2027,121	1690,298

Table 4. GHG emission by Input / Activity

Input / Activity	**Quantity (kg/t)**	**Biophysical (mass) model**	**Economic model**
Soy crop inputs	165,1650851	464,505	602,5065
Other crop inputs	316,3162963	214,6896	257,5142
Reduction fishery inputs	132,1321241	188,0682	183,0437
Fishery by-product inputs	256,2562062	638,461	125,8364
Poultry / livestock inputs	0	0	0
Other feed inputs	130,1300801	114,0223	114,0223
Transport and milling		301,615	301,615
Total	999,9997918	1921,3611	1584,5381

Notes

All emissions values must be reported in units of kg CO_2-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)	2024

Table 2. GHG emissions by scope

	GHG emissions per tonne of ASC compliant feed (kg CO_2-eq/t)	
Emissions scope	**Biophysical (mass) model**	**Economic model**
Scope 1	47,5	47,5
Scope 2	16,335	16,335
Scope 3	4.407	1320,688
Total	4470,562	1384,523

Table 3. GHG emissions by category

Emissions category	**Biophysical (mass) model**	**Economic model**
Fossil emissions	2841,853	1147,262
Biogenic emissions	53,481	3,105
Land use change emissions	1575,227	234,155
Unspecified emissions	0	0
Total	4470,561	1384,522

Table 4. GHG emission by Input / Activity

Input / Activity	**Quantity (kg/t)**	**Biophysical (mass) model**	**Economic model**
Soy crop inputs	111	197,728	197,06
Other crop inputs	326	221,1997	224,8352
Reduction fishery inputs	69,3	88,0484	85,306
Fishery by-product inputs	162,7	412,3887	82,5637
Poultry / livestock inputs	282	2988,3184	231,8806
Other feed inputs	49	42,934	42,934
Transport and milling		450,508	450,508
Total	1000	4401,1252	1315,0875

Notes

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Table 1. Production year

Year of production (yyyy)	2024

Table 2. GHG emissions by scope

	GHG emissions per tonne of ASC compliant feed (kg CO_2-eq/t)	
Emissions scope	**Biophysical (mass) model**	**Economic model**
Scope 1	38,311	38,311
Scope 2	25,036	25,036
Scope 3	4.267	1302,11
Total	4330,804	1365,457

Table 3. GHG emissions by category

Emissions category	**Biophysical (mass) model**	**Economic model**
Fossil emissions	2749,11	1119,669
Biogenic emissions	51,401	3
Land use change emissions	1530,293	242,788
Unspecified emissions	0	0
Total	4330,804	1365,457

Table 4. GHG emission by Input / Activity

Input / Activity	**Quantity (kg/t)**	**Biophysical (mass) model**	**Economic model**
Soy crop inputs	123,232	219,518	218,776
Other crop inputs	324,2419596	216,6041	225,4908
Reduction fishery inputs	74,04005051	94,1311	91,2552
Fishery by-product inputs	160,3028485	405,1441	80,9023
Poultry / livestock inputs	262,6262828	2860,27	213,8954
Other feed inputs	55,55605051	48,6783	48,6783
Transport and milling		418,572	418,572
Total	999,9991919	4262,9176	1297,57

Notes

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