



Methodological note, Black Sea Grain Initiative

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Introduction

This brief note documents the main methodological steps taken to evaluate the Black Sea Grain Initiative. It covers (i) the determination of the underlying prices for the calculation of export values, (ii) the apportionment of food vs non-food categories, and (iii) documents the categorization of recipients into the four principal income classes of the World Bank (HIC, UMIC, LMIC and LIC).

Determining the underlying prices

The calculation of export value equivalents under the Initiative requires a derived representative price for each commodity. In the absence of contractual details, which would document actual transaction prices, it was decided to use a commodity-specific, global trade-weighted export unit value (EUV).

This (average) export unit value ($\overline{EUV}_{cmd,t}$) spans a certain period (t) and is calculated for every individual commodity/product (cmd) as follows:

$$EUV_{cmd,t,i,j} = \frac{VAL_{cmd,t,i,j}}{QTY_{cmd,t,i,j}}$$
$$\overline{EUV}_{cmd,t} = \frac{\sum_i^{world} \sum_j^{world} IUUV_{cmd,t,i,j} \times VAL_{cmd,t,i,j}}{\sum_i^{world} \sum_j^{world} VAL_{cmd,t,i,j}}$$

where VAL refers to the value of trade in US dollars, QTY to the underlying quantity, t = month/year of interest, cmd = commodity code to the appropriate trade classification or HS level, i, j denote available trade partners and reporters. UV (including import, IUV) calculations are limited to the relevant unit of measurement, which is frequently, but not exclusively metric tonnes. In applying this approach, we obtain the following EUVs for the 17 commodities exported under the Initiative (Table1).

Table 1: EUV in US\$/tonne, September 2022

Commodity	EUV in US\$/tonnes as of September 2022
Barley	275
Canola	951
Corn	281
Peas	3036
Rapeseed	713
Rapeseed meal	342
Soya oil	1548
Soya beans	560
Sugar beet pellet	230
Sunflower oil	1468
Sunflower seed	1252
Sunflower pellets	309
Sunflower meal	309
Wheat	323
Wheat bran pellets	243
Mixed bran	294
Mixed	400

Classifying the recipient (importing) countries

For analytical purposes, the classification of the currently 40 recipient countries¹ follows the income groupings used by the World Bank, and is shown in Table 2. Specifically, the 40 recipients are composed of 14 High Income Countries (HICs), 6 Upper Middle-Income Countries (UMICs), 13 Lower Middle-Income Countries (LMICs) and 5 Lower Income Countries (LICs)². Two destinations, namely “UAE/India” and “mixed” cannot be assigned to any of the four World Bank income classes.

Table 2: Classification of recipients by World Bank Income Group

Country	Income Group WB	Income Group Code	#
Belgium	High Income	HIC	1
France	High Income	HIC	2
Germany	High Income	HIC	3
Greece	High Income	HIC	4
Ireland	High Income	HIC	5
Israel	High Income	HIC	6
Italy	High Income	HIC	7
Portugal	High Income	HIC	8
Republic of Korea	High Income	HIC	9
Romania	High Income	HIC	10
Spain	High Income	HIC	11
The Netherlands	High Income	HIC	12
EU	High Income	HIC	13
Oman	High Income	HIC	14
Bulgaria	Upper Middle Income	UMIC	1
China	Upper Middle Income	UMIC	2
Georgia	Upper Middle Income	UMIC	3
Libya	Upper Middle Income	UMIC	4
Malaysia	Upper Middle Income	UMIC	5
Türkiye	Upper Middle Income	UMIC	6
Lebanon	Lower Middle Income	LMIC	1
Tunisia	Lower Middle Income	LMIC	2
Morocco	Lower Middle Income	LMIC	3
Algeria	Lower Middle Income	LMIC	4
Bangladesh	Lower Middle Income	LMIC	5
Egypt	Lower Middle Income	LMIC	6
Indonesia	Lower Middle Income	LMIC	7
India	Lower Middle Income	LMIC	8
Iran	Lower Middle Income	LMIC	9
Kenya	Lower Middle Income	LMIC	10

¹ In addition to individual member countries, the EU is listed as a separate destination

² The Joint Control Center (JCC) classifies one recipient as “Mixed”, which can obviously not be allocated to any of the World Bank income groups

Djibouti	Lower Middle Income	LMIC	11
Viet Nam	Lower Middle Income	LMIC	12
Pakistan	Lower Middle Income	LMIC	13
Afghanistan	Low Income	LIC	1
Ethiopia	Low Income	LIC	2
Somalia	Low Income	LIC	3
Sudan	Low Income	LIC	4
Yemen	Low Income	LIC	5
“Mixed”			1
UAE/India			2

Classifying food and non-food products

In an initial attempt to distinguish between food and non-food items (see Table 1), it was simply decided to classify wheat, peas and all vegetable oils as food items, with the rest assumed as non-food items. However, as the number of commodities has risen with the implementation of the Initiative, it was necessary to take a more systematic approach to differentiate between food and non-food items.

In principle, most agricultural products exported under the Initiative can serve either as food or as feed. Maize (Corn), for instance, is mostly used as an animal feedstuff or as a feedstock for biofuels, but it can also serve as a food item, notably in poorer countries. Conversely, while wheat is mainly used as a foodstuff, it is also used as feed, notably in richer countries. To overcome these ambiguities, it was decided to take guidance from the actual use in every recipient country and every product exported under the Initiative.

Specifically, the separation into food and non-food is based on a 3-year average of corresponding utilisation data from the latest available FAO Food Balance Sheets, i.e., the average 2017-2019. For countries where food balance sheets are not available (Somalia, Djibouti as well as “Mixed”) the following assumption was made. The food shares for Somalia are the same as those calculated for neighbouring Sudan, those for Djibouti are “borrowed” from those of Ethiopia and the shares for “Mixed” are the same as those of Türkiye.

The overall assumption behind this approach is that a recipient country will use the incoming commodity in the same proportions as it uses the commodity in its domestic market. The important exception to this approach applies to oilseeds, where the apportionment is in line with the oil/meal content ratio of every oilseed. This is necessary as the food allocation in the Food Balance Sheets refers to direct consumption of oilseeds. For instance, the consumption of soybeans refers to consuming soybeans as such, which is also called “confectionary use”. This was deemed inappropriate as it would allocate an unduly low proportion to food use. By using the oil/meal ratio, soybeans, for instance render 20 percent oil (food) and 80 percent meal (non-food), which is of a much higher food share than what the food balance sheet suggest in every recipient. The same approach is applied to other oleaginous seeds such as canola, rapeseed, sunflower seed, and again using the seeds-specific oil/meal shares. In addition, products that do not appear in the Food Balance Sheets because they are not used in any country as food are automatically relegated to the non-food rubric. These include all oil meals, brans and pellets.

Specifically, the food shares are calculated as follows:

$$FoodShare (\%) = \frac{domestic + tourist\ food\ consumption_{i,c,2017/19}}{total\ disappearance_{i,c,207/19}} \times 100$$

where i refers to a given recipient country and c to a given commodity. The resulting food shares are summarized in Table 3.

Table 3: Food shares by recipient and commodity

Recipient	Commodity	Food Share
Afghanistan	Barley	22%
Afghanistan	Canola	40%
Afghanistan	Corn	35%
Afghanistan	Mixed bran	0%
Afghanistan	Peas	77%
Afghanistan	Rapeseed	40%
Afghanistan	Rapeseed meal	0%
Afghanistan	Soya beans	20%
Afghanistan	Sugar beet pellet	0%
Afghanistan	Sunflower meal	0%
Afghanistan	Sunflower oil	100%
Afghanistan	Sunflower pellets	0%
Afghanistan	Sunflower seed	40%
Afghanistan	Wheat	83%
Afghanistan	Wheat bran pellets	0%
Algeria	Barley	28%
Algeria	Canola	40%
Algeria	Corn	16%
Algeria	Mixed bran	0%
Algeria	Peas	92%
Algeria	Rapeseed	40%
Algeria	Rapeseed meal	0%
Algeria	Soya beans	20%
Algeria	Sugar beet pellet	0%
Algeria	Sunflower meal	0%
Algeria	Sunflower oil	100%
Algeria	Sunflower pellets	0%
Algeria	Sunflower seed	40%
Algeria	Wheat	69%
Algeria	Wheat bran pellets	0%
Bangladesh	Barley	0%
Bangladesh	Canola	40%
Bangladesh	Corn	2%
Bangladesh	Mixed bran	0%
Bangladesh	Peas	81%
Bangladesh	Rapeseed	40%
Bangladesh	Rapeseed meal	0%

Bangladesh	Soya beans	20%
Bangladesh	Sugar beet pellet	0%
Bangladesh	Sunflower meal	0%
Bangladesh	Sunflower oil	100%
Bangladesh	Sunflower pellets	0%
Bangladesh	Sunflower seed	40%
Bangladesh	Wheat	46%
Bangladesh	Wheat bran pellets	0%
Belgium	Barley	1%
Belgium	Canola	40%
Belgium	Corn	1%
Belgium	Mixed bran	0%
Belgium	Peas	18%
Belgium	Rapeseed	40%
Belgium	Rapeseed meal	0%
Belgium	Soya beans	20%
Belgium	Sugar beet pellet	0%
Belgium	Sunflower meal	0%
Belgium	Sunflower oil	7%
Belgium	Sunflower pellets	0%
Belgium	Sunflower seed	40%
Belgium	Wheat	27%
Belgium	Wheat bran pellets	0%
Bulgaria	Barley	2%
Bulgaria	Canola	40%
Bulgaria	Corn	20%
Bulgaria	Mixed bran	0%
Bulgaria	Peas	4%
Bulgaria	Rapeseed	40%
Bulgaria	Rapeseed meal	0%
Bulgaria	Soya beans	20%
Bulgaria	Sugar beet pellet	0%
Bulgaria	Sunflower meal	0%
Bulgaria	Sunflower oil	72%
Bulgaria	Sunflower pellets	0%
Bulgaria	Sunflower seed	40%
Bulgaria	Wheat	43%
Bulgaria	Wheat bran pellets	0%
China	Barley	7%
China	Canola	40%
China	Corn	3%
China	Mixed bran	0%
China	Peas	23%
China	Rapeseed	40%
China	Rapeseed meal	0%
China	Soya beans	20%

China	Sugar beet pellet	0%
China	Sunflower meal	0%
China	Sunflower oil	23%
China	Sunflower pellets	0%
China	Sunflower seed	40%
China	Wheat	76%
China	Wheat bran pellets	0%
Djibouti	Barley	75%
Djibouti	Canola	40%
Djibouti	Corn	58%
Djibouti	Mixed bran	0%
Djibouti	Peas	93%
Djibouti	Rapeseed	40%
Djibouti	Rapeseed meal	0%
Djibouti	Soya beans	20%
Djibouti	Sugar beet pellet	0%
Djibouti	Sunflower meal	0%
Djibouti	Sunflower oil	100%
Djibouti	Sunflower pellets	0%
Djibouti	Sunflower seed	40%
Djibouti	Wheat	61%
Djibouti	Wheat bran pellets	0%
Egypt	Barley	10%
Egypt	Canola	40%
Egypt	Corn	38%
Egypt	Mixed bran	0%
Egypt	Peas	93%
Egypt	Rapeseed	40%
Egypt	Rapeseed meal	0%
Egypt	Soya beans	20%
Egypt	Sugar beet pellet	0%
Egypt	Sunflower meal	0%
Egypt	Sunflower oil	56%
Egypt	Sunflower pellets	0%
Egypt	Sunflower seed	40%
Egypt	Wheat	81%
Egypt	Wheat bran pellets	0%
Ethiopia	Barley	75%
Ethiopia	Canola	40%
Ethiopia	Corn	58%
Ethiopia	Mixed bran	0%
Ethiopia	Peas	93%
Ethiopia	Rapeseed	40%
Ethiopia	Rapeseed meal	0%
Ethiopia	Soya beans	20%
Ethiopia	Sugar beet pellet	0%

Ethiopia	Sunflower meal	0%
Ethiopia	Sunflower oil	100%
Ethiopia	Sunflower pellets	0%
Ethiopia	Sunflower seed	40%
Ethiopia	Wheat	61%
Ethiopia	Wheat bran pellets	0%
EU	Barley	1%
EU	Canola	40%
EU	Corn	5%
EU	Peas	15%
EU	Rapeseed	40%
EU	Soya beans	20%
EU	Sunflower oil	59%
EU	Sunflower seed	40%
EU	Wheat	44%
France	Barley	1%
France	Canola	40%
France	Corn	10%
France	Mixed bran	0%
France	Peas	4%
France	Rapeseed	40%
France	Rapeseed meal	0%
France	Soya beans	20%
France	Sugar beet pellet	0%
France	Sunflower meal	0%
France	Sunflower oil	100%
France	Sunflower pellets	0%
France	Sunflower seed	40%
France	Wheat	40%
France	Wheat bran pellets	0%
Georgia	Barley	61%
Georgia	Canola	40%
Georgia	Corn	36%
Georgia	Mixed bran	0%
Georgia	Peas	0%
Georgia	Rapeseed	40%
Georgia	Rapeseed meal	0%
Georgia	Soya beans	20%
Georgia	Sugar beet pellet	0%
Georgia	Sunflower meal	0%
Georgia	Sunflower oil	47%
Georgia	Sunflower pellets	0%
Georgia	Sunflower seed	40%
Georgia	Wheat	87%
Georgia	Wheat bran pellets	0%
Germany	Barley	0%

Germany	Canola	40%
Germany	Corn	13%
Germany	Mixed bran	0%
Germany	Peas	10%
Germany	Rapeseed	40%
Germany	Rapeseed meal	0%
Germany	Soya beans	20%
Germany	Sugar beet pellet	0%
Germany	Sunflower meal	0%
Germany	Sunflower oil	97%
Germany	Sunflower pellets	0%
Germany	Sunflower seed	40%
Germany	Wheat	41%
Germany	Wheat bran pellets	0%
Greece	Barley	0%
Greece	Canola	40%
Greece	Corn	1%
Greece	Mixed bran	0%
Greece	Peas	7%
Greece	Rapeseed	40%
Greece	Rapeseed meal	0%
Greece	Soya beans	20%
Greece	Sugar beet pellet	0%
Greece	Sunflower meal	0%
Greece	Sunflower oil	31%
Greece	Sunflower pellets	0%
Greece	Sunflower seed	40%
Greece	Wheat	61%
Greece	Wheat bran pellets	0%
India	Barley	80%
India	Canola	40%
India	Corn	46%
India	Mixed bran	0%
India	Peas	93%
India	Rapeseed	40%
India	Rapeseed meal	0%
India	Soya beans	20%
India	Sugar beet pellet	0%
India	Sunflower meal	0%
India	Sunflower oil	92%
India	Sunflower pellets	0%
India	Sunflower seed	40%
India	Wheat	87%
India	Wheat bran pellets	0%
Indonesia	Barley	9%
Indonesia	Canola	40%

Indonesia	Corn	25%
Indonesia	Peas	100%
Indonesia	Rapeseed	40%
Indonesia	Soya beans	11%
Indonesia	Sunflower oil	100%
Indonesia	Sunflower seed	40%
Indonesia	Wheat	98%
Iran	Barley	1%
Iran	Canola	40%
Iran	Corn	3%
Iran	Mixed bran	0%
Iran	Peas	100%
Iran	Rapeseed	40%
Iran	Rapeseed meal	0%
Iran	Soya beans	20%
Iran	Sugar beet pellet	0%
Iran	Sunflower meal	0%
Iran	Sunflower oil	81%
Iran	Sunflower pellets	0%
Iran	Sunflower seed	40%
Iran	Wheat	92%
Iran	Wheat bran pellets	0%
Iraq	Barley	7%
Iraq	Canola	40%
Iraq	Corn	3%
Iraq	Peas	91%
Iraq	Rapeseed	40%
Iraq	Soya beans	20%
Iraq	Sunflower oil	49%
Iraq	Sunflower seed	34%
Iraq	Wheat	70%
Ireland	Barley	1%
Ireland	Canola	40%
Ireland	Corn	4%
Ireland	Mixed bran	0%
Ireland	Peas	67%
Ireland	Rapeseed	40%
Ireland	Rapeseed meal	0%
Ireland	Soya beans	20%
Ireland	Sugar beet pellet	0%
Ireland	Sunflower meal	0%
Ireland	Sunflower oil	100%
Ireland	Sunflower pellets	0%
Ireland	Sunflower seed	40%
Ireland	Wheat	40%
Ireland	Wheat bran pellets	0%

Israel	Barley	1%
Israel	Canola	40%
Israel	Corn	7%
Israel	Mixed bran	0%
Israel	Peas	82%
Israel	Rapeseed	40%
Israel	Rapeseed meal	0%
Israel	Soya beans	20%
Israel	Sugar beet pellet	0%
Israel	Sunflower meal	0%
Israel	Sunflower oil	100%
Israel	Sunflower pellets	0%
Israel	Sunflower seed	40%
Israel	Wheat	52%
Israel	Wheat bran pellets	0%
Italy	Barley	1%
Italy	Canola	40%
Italy	Corn	2%
Italy	Mixed bran	0%
Italy	Peas	49%
Italy	Rapeseed	40%
Italy	Rapeseed meal	0%
Italy	Soya beans	20%
Italy	Sugar beet pellet	0%
Italy	Sunflower meal	0%
Italy	Sunflower oil	50%
Italy	Sunflower pellets	0%
Italy	Sunflower seed	40%
Italy	Wheat	80%
Italy	Wheat bran pellets	0%
Kenya	Barley	2%
Kenya	Canola	40%
Kenya	Corn	92%
Kenya	Mixed bran	0%
Kenya	Peas	100%
Kenya	Rapeseed	40%
Kenya	Rapeseed meal	0%
Kenya	Soya beans	20%
Kenya	Sugar beet pellet	0%
Kenya	Sunflower meal	0%
Kenya	Sunflower oil	100%
Kenya	Sunflower pellets	0%
Kenya	Sunflower seed	40%
Kenya	Wheat	94%
Kenya	Wheat bran pellets	0%
Lebanon	Barley	3%

Lebanon	Canola	40%
Lebanon	Corn	0%
Lebanon	Mixed bran	0%
Lebanon	Peas	100%
Lebanon	Rapeseed	40%
Lebanon	Rapeseed meal	0%
Lebanon	Soya beans	20%
Lebanon	Sugar beet pellet	0%
Lebanon	Sunflower meal	0%
Lebanon	Sunflower oil	36%
Lebanon	Sunflower pellets	0%
Lebanon	Sunflower seed	40%
Lebanon	Wheat	92%
Lebanon	Wheat bran pellets	0%
Libya	Barley	25%
Libya	Canola	40%
Libya	Corn	3%
Libya	Mixed bran	0%
Libya	Peas	79%
Libya	Rapeseed	40%
Libya	Rapeseed meal	0%
Libya	Soya beans	20%
Libya	Sugar beet pellet	0%
Libya	Sunflower meal	0%
Libya	Sunflower oil	100%
Libya	Sunflower pellets	0%
Libya	Sunflower seed	40%
Libya	Wheat	59%
Libya	Wheat bran pellets	0%
Malaysia	Barley	0%
Malaysia	Canola	40%
Malaysia	Corn	11%
Malaysia	Mixed bran	0%
Malaysia	Peas	100%
Malaysia	Rapeseed	40%
Malaysia	Rapeseed meal	0%
Malaysia	Soya beans	20%
Malaysia	Sugar beet pellet	0%
Malaysia	Sunflower meal	0%
Malaysia	Sunflower oil	100%
Malaysia	Sunflower pellets	0%
Malaysia	Sunflower seed	40%
Malaysia	Wheat	95%
Malaysia	Wheat bran pellets	0%
Morocco	Barley	52%
Morocco	Canola	40%

Morocco	Corn	62%
Morocco	Peas	85%
Morocco	Rapeseed	40%
Morocco	Soya beans	20%
Morocco	Sunflower oil	98%
Morocco	Sunflower seed	40%
Morocco	Wheat	62%
Oman	Barley	0%
Oman	Canola	40%
Oman	Corn	27%
Oman	Peas	100%
Oman	Rapeseed	40%
Oman	Soya beans	20%
Oman	Sunflower oil	100%
Oman	Sunflower seed	40%
Oman	Wheat	94%
Pakistan	Barley	1%
Pakistan	Canola	40%
Pakistan	Corn	12%
Pakistan	Peas	63%
Pakistan	Rapeseed	40%
Pakistan	Soya beans	20%
Pakistan	Sunflower oil	46%
Pakistan	Sunflower seed	40%
Pakistan	Wheat	45%
Portugal	Barley	10%
Portugal	Canola	40%
Portugal	Corn	6%
Portugal	Mixed bran	0%
Portugal	Peas	93%
Portugal	Rapeseed	40%
Portugal	Rapeseed meal	0%
Portugal	Soya beans	20%
Portugal	Sugar beet pellet	0%
Portugal	Sunflower meal	0%
Portugal	Sunflower oil	42%
Portugal	Sunflower pellets	0%
Portugal	Sunflower seed	40%
Portugal	Wheat	68%
Portugal	Wheat bran pellets	0%
Republic of Korea	Barley	12%
Republic of Korea	Canola	40%
Republic of Korea	Corn	8%
Republic of Korea	Mixed bran	0%
Republic of Korea	Peas	100%
Republic of Korea	Rapeseed	40%

Republic of Korea	Rapeseed meal	0%
Republic of Korea	Soya beans	20%
Republic of Korea	Sugar beet pellet	0%
Republic of Korea	Sunflower meal	0%
Republic of Korea	Sunflower oil	100%
Republic of Korea	Sunflower pellets	0%
Republic of Korea	Sunflower seed	40%
Republic of Korea	Wheat	62%
Republic of Korea	Wheat bran pellets	0%
Romania	Barley	3%
Romania	Canola	40%
Romania	Corn	8%
Romania	Mixed bran	0%
Romania	Peas	4%
Romania	Rapeseed	40%
Romania	Rapeseed meal	0%
Romania	Soya beans	20%
Romania	Sugar beet pellet	0%
Romania	Sunflower meal	0%
Romania	Sunflower oil	79%
Romania	Sunflower pellets	0%
Romania	Sunflower seed	40%
Romania	Wheat	58%
Romania	Wheat bran pellets	0%
Somalia	Barley	0%
Somalia	Canola	40%
Somalia	Corn	44%
Somalia	Mixed bran	0%
Somalia	Peas	100%
Somalia	Rapeseed	40%
Somalia	Rapeseed meal	0%
Somalia	Soya beans	20%
Somalia	Sugar beet pellet	0%
Somalia	Sunflower meal	0%
Somalia	Sunflower oil	100%
Somalia	Sunflower pellets	0%
Somalia	Sunflower seed	40%
Somalia	Wheat	97%
Somalia	Wheat bran pellets	0%
Spain	Barley	0%
Spain	Canola	40%
Spain	Corn	1%
Spain	Mixed bran	0%
Spain	Peas	11%
Spain	Rapeseed	40%
Spain	Rapeseed meal	0%

Spain	Soya beans	20%
Spain	Sugar beet pellet	0%
Spain	Sunflower meal	0%
Spain	Sunflower oil	61%
Spain	Sunflower pellets	0%
Spain	Sunflower seed	40%
Spain	Wheat	41%
Spain	Wheat bran pellets	0%
Sudan	Barley	0%
Sudan	Canola	40%
Sudan	Corn	44%
Sudan	Mixed bran	0%
Sudan	Peas	100%
Sudan	Rapeseed	40%
Sudan	Rapeseed meal	0%
Sudan	Soya beans	20%
Sudan	Sugar beet pellet	0%
Sudan	Sunflower meal	0%
Sudan	Sunflower oil	100%
Sudan	Sunflower pellets	0%
Sudan	Sunflower seed	40%
Sudan	Wheat	97%
Sudan	Wheat bran pellets	0%
TBD and Türkiye	Barley	0%
TBD and Türkiye	Canola	40%
TBD and Türkiye	Corn	21%
TBD and Türkiye	Mixed bran	0%
TBD and Türkiye	Peas	83%
TBD and Türkiye	Rapeseed	40%
TBD and Türkiye	Rapeseed meal	0%
TBD and Türkiye	Soya beans	20%
TBD and Türkiye	Sugar beet pellet	0%
TBD and Türkiye	Sunflower meal	0%
TBD and Türkiye	Sunflower oil	37%
TBD and Türkiye	Sunflower pellets	0%
TBD and Türkiye	Sunflower seed	40%
TBD and Türkiye	Wheat	70%
TBD and Türkiye	Wheat bran pellets	0%
The Netherlands	Barley	2%
The Netherlands	Canola	40%
The Netherlands	Corn	1%
The Netherlands	Mixed bran	0%
The Netherlands	Peas	27%
The Netherlands	Rapeseed	40%
The Netherlands	Rapeseed meal	0%
The Netherlands	Soya beans	20%

The Netherlands	Sugar beet pellet	0%
The Netherlands	Sunflower meal	0%
The Netherlands	Sunflower oil	3%
The Netherlands	Sunflower pellets	0%
The Netherlands	Sunflower seed	40%
The Netherlands	Wheat	20%
The Netherlands	Wheat bran pellets	0%
Tunisia	Barley	5%
Tunisia	Canola	40%
Tunisia	Corn	0%
Tunisia	Mixed bran	0%
Tunisia	Peas	95%
Tunisia	Rapeseed	40%
Tunisia	Rapeseed meal	0%
Tunisia	Soya beans	20%
Tunisia	Sugar beet pellet	0%
Tunisia	Sunflower meal	0%
Tunisia	Sunflower oil	87%
Tunisia	Sunflower pellets	0%
Tunisia	Sunflower seed	40%
Tunisia	Wheat	83%
Tunisia	Wheat bran pellets	0%
Türkiye	Barley	0%
Türkiye	Canola	40%
Türkiye	Corn	21%
Türkiye	Mixed bran	0%
Türkiye	Peas	83%
Türkiye	Rapeseed	40%
Türkiye	Rapeseed meal	0%
Türkiye	Soya beans	20%
Türkiye	Sugar beet pellet	0%
Türkiye	Sunflower meal	0%
Türkiye	Sunflower oil	37%
Türkiye	Sunflower pellets	0%
Türkiye	Sunflower seed	40%
Türkiye	Wheat	70%
Türkiye	Wheat bran pellets	0%
United Kingdom	Barley	1%
United Kingdom	Canola	1%
United Kingdom	Corn	12%
United Kingdom	Mixed bran	0%
United Kingdom	Peas	63%
United Kingdom	Rapeseed	40%
United Kingdom	Rapeseed meal	0%
United Kingdom	Soya beans	20%
United Kingdom	Sugar beet pellet	0%

United Kingdom	Sunflower meal	0%
United Kingdom	Sunflower oil	45%
United Kingdom	Sunflower pellets	0%
United Kingdom	Sunflower seed	40%
United Kingdom	Wheat	45%
United Kingdom	Wheat bran pellets	0%
Viet Nam	Barley	0%
Viet Nam	Canola	40%
Viet Nam	Corn	10%
Viet Nam	Peas	25%
Viet Nam	Rapeseed	40%
Viet Nam	Soya beans	27%
Viet Nam	Sunflower oil	100%
Viet Nam	Sunflower seed	43%
Viet Nam	Wheat	46%
Yemen	Barley	0%
Yemen	Canola	40%
Yemen	Corn	55%
Yemen	Mixed bran	0%
Yemen	Peas	15%
Yemen	Rapeseed	40%
Yemen	Rapeseed meal	0%
Yemen	Soya beans	20%
Yemen	Sugar beet pellet	0%
Yemen	Sunflower meal	0%
Yemen	Sunflower oil	100%
Yemen	Sunflower pellets	0%
Yemen	Sunflower seed	40%
Yemen	Wheat	95%
Yemen	Wheat bran pellets	0%