



AN UPDATE ON AGRI PROCESSING PRODUCT PERFORMANCE IN GLOBAL MARKETS

March 2017

Agri processing has been identified as a key opportunity for South Africa in recent years. This is attributed to various factors including, but not limited to, the sector's potential for export growth, income generation, employment creation and the provision of a bigger domestic market for primary agricultural produce.

The fact that agri processing is a complex industry spanning several traditional sectoral groupings means that reliable data to inform policy decisions can be difficult to come by. The Agri Processing Index (API) was thus created at the Western Cape Department of Agriculture (WCDoA) in order to provide a knowledge base to inform decisions around agri processing efforts in South Africa. In order to take a comprehensive view of all potential processing activities, the following definition is used to define agri processing:

"All post-harvest activities applied to products that originate from primary agriculture, forestry and fisheries which involve the transformation, preservation and preparation of products for intermediary and final consumption to make them usable as food, feed, fibre or industrial raw materials. This includes waste and waste products." (Pienaar & Partridge, 2015, p. 6)

This paper discusses a recent update of the API database, taking a specific focus on the opportunities in terms of the global market performance of products.

Data and Methodology

The API was developed in 2015. It is a multivariate index based on the weighted sum of 17 sub-indicators, namely: gross value added (GVA), intermediate consumption, investment, horizontal spill overs, employment growth, average wage growth, labour intensity, domestic consumption, short-term import growth, long-term import growth, short-term export growth, long-term export growth, short-term world trade growth, long-term world trade growth, effective tariff, effective non-tariff barriers and effective distance (Partridge & Pienaar, 2015).

Each sub indicator is based on a specific calculated variable, with scoring done on an ordinal basis and ranging between 1 and 10. That is the top 10% on the relevant measure get a score of 10, the next 10% get a score of 9, and so on until the lowest 10% which get a score of 1. The API is then calculated as the weighted sum of all the sub-indicators, where weights were determined through extensive stakeholder consultations (Partridge & Pienaar, 2015).

Some of the data used in calculation of the sub-indicators based on domestic market growth, employment potential and production performance had not yet been released by Statistics South Africa at the time of conducting the 2017 update, meaning that a comprehensive update of the entire database was not possible. This paper thus provides an updated analysis but focusing solely on the opportunities provided by the global market. There were a total of seven sub-indicators focused on global market opportunities under two broad subject areas, namely "global market growth" and "trade barriers".

Under global market growth, there are a total of four sub-indicators. Two sub-indicators (short-term and long-term) measure growth in world imports of the product, showing where there is growing demand around the world. Then the other two sub-indicators measure growth in South African exports (short-term and long-term), scoring those products which have proven to be successful in the South African export environment. All trade data is provided by the International Trade Centre (ITC, 2017), with values deflated using consumer price indices provided by the International Monetary Fund (IMF, 2017) in order to calculate real growth rates.

The three remaining sub-indicators measure "trade barriers". Specifically effective tariffs, effective non-tariff barriers and effective distances to markets are calculated for each product. The use of "effective" sub-indicators is due to the fact that all these variables listed here are country or even country and product specific. Thus there is a need to convert to product specific values, which is done through the weighted sum of all countries, with weights determined according to each country's shares in imports of each specific product (Partridge & Pienaar, 2015). These calculations utilised several different data sources, specifically tariff data from the World Trade Organisation (WTO, 2017), non-tariff barrier scoring from the World Economic Forum's Global Competitiveness Report (WEF, 2017), distances between countries from the Centre D'etudes Prospectives et D'informations Internationales (CEPII, 2012) and trade flows from the International Trade Centre (ITC, 2017).

The weightings of the sub-indicators used in the global markets index are based on the weightings developed through extensive stakeholder consultations in the development of the initial API (Partridge & Pienaar, 2015). Ten of the seventeen sub-indicators had their initial weightings set to zero, specifically those relating to "domestic market growth" (n=3), "production performance" (n=4) and "employment potential" (n=3). The remaining seven sub-indicators were then increased proportionately to ensure the consistent relative impact of each one. Figure 1 below shows the final weightings used in this regard.

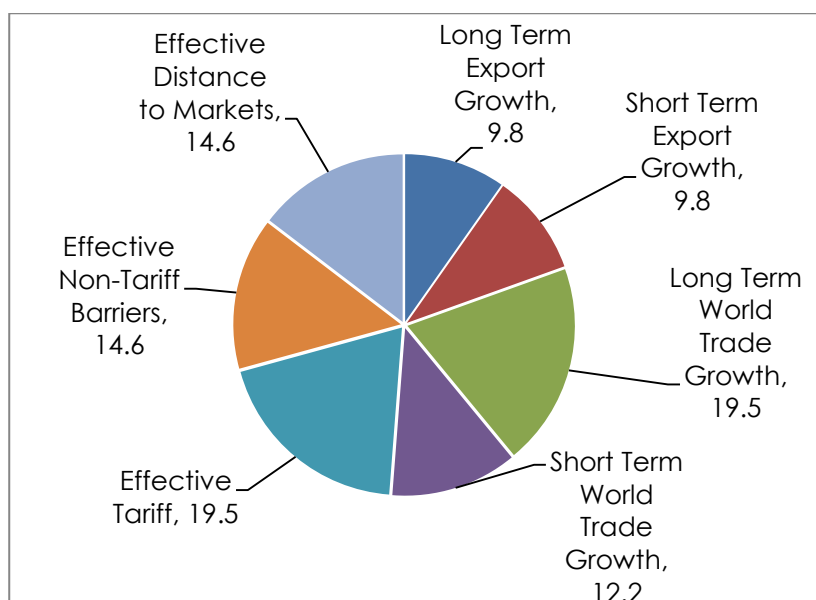


Figure 1: Percentage Breakdown of Sub-Indicator Weights

Overall a relatively equal split is observed between the two subject areas, with the sum of “global market growth” sub-indicators equalling approximately 51% and “trade barriers” sub-indicator weights totalling approximately 49%.

Results

The full results table is provided in Appendix A1 to this report. For each product and product code as derived by Partridge and Pienaar (2015), there are three values provided. The first column provides the global opportunities API, the overall weighted index which ranks the best opportunities from a global export perspective. The API ranges from 0 to 1. The next column gives the score, from 1 to 10, on global market growth. This score is based on the weighted score of the four sub-indicators discussed and is accompanied by the net change in the score in comparison with the 2015 database. Then finally the score on trade barriers is provided, also between 1 and 10. This score is based on the weighted score of the three sub-indicators discussed and is again accompanied by the net change from 2015.

The top ten overall products are listed in Table 1 below. The top performing product in global trade is birds eggs (mainly chicken eggs), with a score of 0.84. This is on the back of relatively balanced scores on global market growth (8.2) and trade barriers (8.5). Global market growth of birds' eggs was driven particularly by South African export growth, falling in the top decile in terms of long-term growth and the second highest decile in the short term. In terms of trade barriers, birds' eggs face particularly low tariffs putting the product in the top decile in this regard and falling in the third and fourth deciles for distance to markets and non-tariff barriers respectively.

Table 1: Top Ten Products in terms of the Global Opportunities API

#	Code	Description	Global Opportunities API	Global Market Growth	Trade Barriers
1	AP014	Birds' eggs	0.84	8.2	8.5
2	AP040	Raw nuts in shell, excluding ground nuts	0.82	9.5	6.9
3	AP062	Berries other than strawberries (fresh)	0.81	9.6	6.5
4	AP046	Guavas and mangoes	0.80	9.0	6.8
5	AP068	Herbs and spices	0.77	8.6	6.8
6	AP045	Avocados	0.75	8.1	6.9
7	AP033	Beans (fresh or chilled)	0.74	6.1	8.8
8	AP043	Figs	0.73	8.6	6.0
9	AP123	Bakery products other than bread and biscuits	0.72	6.1	8.4
10	AP135	Beverage waters, ice and snow	0.70	6.0	8.2

Of the top ten overall products, seven relate to primary processing opportunities, namely eggs, raw nuts, berries, guavas/mangoes, avocados, beans and figs. These primary activities also occupied the top four spots in the database. The remaining three products in the top ten are all higher value added manufacturing activities, namely herbs/spices, bakery products and beverage waters.

Zooming in on global market growth, the top scoring product was for berries, the top scoring product overall in the 2015 API analysis (Partridge & Pienaar, 2015). Table 2 shows the top ten scores in global market growth, along with their aggregated score in this area and the four variables upon which this score is based:

- Short-term export growth: Average real annual growth in South African exports between 2012 and 2015 (3 years)
- Long-term export growth: Average real annual growth in South African exports between 2005 and 2015 (10 years)
- Short-term world trade growth: Average real annual growth in world trade between 2012 and 2015 (3 years)
- Long-term world trade growth: Average real annual growth in world trade between 2005 and 2015 (10 years).

It should also be noted that all growth rates are average annual increases and reflect real growth rates, that is, growth in excess of South Africa's inflation rate.

Table 2: Top Ten Products in terms of Global Market Growth

#	Code	Description	Global Market Growth	SA Exports: 3yr (%)	SA Exports: 10yr (%)	World Trade: 3yr (%)	World Trade: 10yr (%)
1	AP062	Berries other than strawberries (fresh)	9.62	29.5	35.0	24.3	17.1
2	AP111	Infant food preparations and formula	9.62	25.7	29.3	19.9	14.6
3	AP040	Raw nuts in shell, excluding ground nuts	9.52	74.7	107.7	14.1	22.3
4	AP058	Cherries (fresh)	9.14	120.5	49.0	13.1	12.1
5	AP046	Guavas and mangoes	9.05	41.1	11.2	20.7	12.9
6	AP068	Herbs and spices	8.62	11.3	24.9	17.1	11.3
7	AP043	Figs	8.62	35.3	51.3	17.3	8.1
8	AP049	Lemons and limes	8.48	40.5	16.2	21.1	9.9
9	AP014	Birds eggs	8.24	23.3	40.3	9.9	10.8
10	AP045	Avocados	8.10	8.5	6.6	30.1	14.5

Berries came out top of the list in Table 2 due to strong growth on the world stage and also in terms of South African exports. In both cases the product has shown sustained growth over the long term as well as exhibiting strong current growth over the short term. A similar outcome is shown for infant food preparations. For some products however, such as raw nuts, cherries and figs, extremely strong growth has been realised in terms of South African exports in spite of slightly slower (but still strong) growth in global trade.

In terms of trade barriers, yoghurt came out as the best scoring across the three sub-indicators. This is shown in Table 3 below which shows the top ten scores for trade barriers, where high scores effectively mean the absence of trade barriers or the freedom of movement of each product. In addition to the aggregated score, the measures used for each sub-indicator are also provided, specifically:

- Effective tariff: Calculated as the weighted average tariff for each product, with weights based on each country's share in world imports of the product.
- Effective non-tariff barrier: Calculated as the weighted average of non-tariff barrier scores for each country, with weights based on each country's share in world imports of the product.
- Effective distance: Calculated as the weighted average of the distances between South Africa and each country, with weights based on each country's share in world imports of the product.

It should be noted that non-tariff barrier scores are done by the World Economic Forum in such a way that high scores are better, thus technically referring more to the absence of non-tariff barriers or the freedom of movement of goods (WEF, 2017). For the other two effective variables, tariffs and distance, lower scores are better and are treated as such in the sub-indicator calculations.

Table 3: Top Ten Products in Terms of (the absence of) Trade Barriers

#	Code	Description	Trade Barriers	Effective Tariff (%)	Effective NTB (0-10)	Effective Distance (km)
1	AP009	Yoghurt	9.60	2.1	4.8	8 678
2	AP033	Beans (fresh or chilled)	8.80	0.3	4.7	9 886
3	AP010	Buttermilk	8.60	3.6	4.7	8 941
4	AP014	Birds Eggs	8.50	2.0	4.6	9 431
5	AP123	Bakery products other than bread and biscuits	8.40	2.8	4.7	9 718
6	AP139	Wine: Bulk (>= 2l)	8.40	2.5	4.7	9 863
7	AP159	Wooden containers	8.30	3.4	4.7	9 781
8	AP135	Beverage waters, ice and snow	8.20	2.0	4.8	10 546
9	AP133	Ice cream and other edible ice	8.20	3.8	4.7	9 197
10	AP057	Apricots (fresh)	7.90	1.6	4.5	8 942

The best score for tariffs in the top ten was for beans, equalling only 0.3% however imports of this products have been concentrated in markets further away from South Africa meaning that it loses out the top spot to yoghurt which was in the top decile for both non-tariff barriers and for distance to markets.

Birds eggs was the only product to appear in the top ten for both focus areas, being the ninth highest rating in terms of global market growth and the fourth highest in terms of trade barriers.

Concluding Comments

This brief report has provided an outline of the data contained in Appendix A1 and as such provided a database which can be harnessed for further analysis and decision making.

There appears to be stronger performance of agri processing products closer to the farm gate in agricultural value chains, particularly with regards to eggs, raw nuts, berries, guavas/mangoes, avocados, beans and figs. However, significant opportunities were also identified in higher end manufactured products such as herbs/spices, bakery products and beverage waters.

It should be noted that this update analysis looks only at performance in global markets from South Africa's perspective and as such has not accounted for key areas in relation to domestic market growth, production performance and employment potential. These

areas are important areas and left off due only to delays from Stats SA in releasing the necessary data. As soon as this data is made available then the full database will be updated and indices calculated. In the meantime, the full database as it currently stands, as well as previous versions, are freely available on request from the author in its entirety as well as the ability to produce tailored outputs such as was used in this report.

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Appendix A1: Full Data Table – Global Opportunities API 2017

#	Code	Description	Global Opportunities API	Global Market Growth	Δ 2015	Trade Barriers	Δ 2015
1	AP014	Birds eggs	0.837	8.24	1.48	8.50	4.10
2	AP040	Raw nuts in shell, excluding ground nuts	0.824	9.52	-0.48	6.90	1.70
3	AP062	Berries other than strawberries (fresh)	0.810	9.62	-0.19	6.50	-0.10
4	AP046	Guavas and Mangoes	0.795	9.05	3.48	6.80	0.20
5	AP068	Herbs and Spices	0.773	8.62	3.19	6.80	1.10
6	AP045	Avocados	0.751	8.10	-0.57	6.90	1.00
7	AP033	Beans (fresh or chilled)	0.741	6.10	-1.33	8.80	4.20
8	AP043	Figs	0.734	8.62	-0.14	6.00	0.70
9	AP123	Bakery products other than bread and biscuits	0.724	6.14	0.67	8.40	3.70
10	AP135	Beverage waters, ice and snow	0.705	5.95	2.57	8.20	2.40
11	AP111	Infant food preparations and formula	0.702	9.62	1.90	4.30	-0.50
12	AP009	Yoghurt	0.695	4.43	-1.95	9.60	5.90
13	AP032	Peas (fresh or chilled)	0.690	7.76	0.81	6.00	-1.80
14	AP067	Condiments and Seasonings	0.688	8.10	0.81	5.60	-0.70
15	AP146	Essential oils	0.688	7.90	2.76	5.80	-0.00
16	AP090	Canola seeds	0.685	7.86	0.33	5.80	1.80
17	AP125	Bread	0.685	6.05	-0.76	7.70	2.40
18	AP049	Lemons and limes	0.683	8.48	3.33	5.10	-0.80
19	AP038	Sweet potatoes	0.683	7.14	0.81	6.50	-1.30
20	AP010	Buttermilk	0.676	5.00	-0.90	8.60	4.10
21	AP039	Processed nuts (includes ground nuts)	0.671	7.48	1.33	5.90	-0.10
22	AP058	Cherries (fresh)	0.668	9.14	1.95	4.10	-3.00
23	AP078	Wheat Meal and Wheat Flour	0.663	7.14	-0.86	6.10	2.70
24	AP118	Chocolate and other food preparations containing cocoa	0.663	6.67	3.29	6.60	1.40
25	AP120	Pasta	0.659	7.14	1.33	6.00	0.50
26	AP144	Dog or cat food (retail)	0.659	6.10	0.43	7.10	2.00
27	AP136	Soda drinks and flavoured water	0.649	7.81	1.52	5.10	-2.40
28	AP133	Ice cream and other edible ice	0.641	4.71	0.81	8.20	3.40
29	AP159	Wooden containers	0.639	4.57	0.33	8.30	3.20
30	AP099	Rooibos	0.639	7.33	0.62	5.40	-0.50
31	AP072	Barley	0.632	7.10	-0.43	5.50	2.20

#	Code	Description	Global Opportunities API	Global Market Growth	Δ 2015	Trade Barriers	Δ 2015
32	AP048	Soft citrus	0.629	5.62	0.67	7.00	5.10
33	AP124	Sweet biscuits, waffles and wafers	0.627	5.86	-0.76	6.70	2.20
34	AP003	Mutton/lamb meat	0.627	4.90	1.52	7.70	1.60
35	AP139	Wine: Bulk (>= 2l)	0.620	4.10	-3.57	8.40	4.00
36	AP026	Onions (fresh or chilled)	0.617	7.10	2.43	5.20	-0.30
37	AP172	Fine or coarse animal hair, not carded or combed	0.617	5.19	0.14	7.20	5.60
38	AP025	Tomatoes (fresh or chilled)	0.615	5.05	1.33	7.30	3.60
39	AP101	Animal feed	0.615	7.43	-0.81	4.80	1.00
40	AP054	Pawpaws (papayas) (fresh)	0.612	5.38	1.19	6.90	0.10
41	AP028	Edible brassicas (cabbage, cauliflower, broccoli etc.) (fresh or chilled)	0.607	6.52	1.19	5.60	-1.90
42	AP149	Manufactured leather products	0.607	7.19	1.48	4.90	-2.90
43	AP073	Oats	0.607	5.48	1.62	6.70	2.10
44	AP131	Sauces, other than soya sauce and chutney	0.600	7.05	0.52	4.90	-1.80
45	AP036	Dried/dehydrated vegetables	0.598	7.48	1.38	4.40	-0.50
46	AP030	Chicory (fresh or chilled)	0.598	5.86	3.81	6.10	0.90
47	AP082	Breakfast cereals	0.593	5.57	0.10	6.30	0.10
48	AP119	Mixes and doughs for bread, pastry, biscuits, etc.	0.593	7.00	-1.00	4.80	-1.00
49	AP012	Dairy Fats and Oils (e.g. Butter)	0.588	5.19	0.24	6.60	2.20
50	AP140	Flavoured wine and other alcoholic beverages derived from fruit (excl. Wine)	0.585	5.90	-1.67	5.80	0.50
51	AP057	Apricots (fresh)	0.583	3.86	-1.48	7.90	2.70
52	AP061	Strawberries (fresh)	0.583	6.05	-0.33	5.60	-1.60
53	AP142	Brandy	0.583	5.29	-2.90	6.40	-0.80
54	AP152	Wood for fuel	0.583	6.14	0.24	5.50	1.80
55	AP076	Grain sorghum (excl. For sowing)	0.580	7.33	0.95	4.20	-0.70
56	AP013	Cheese and Curd	0.573	4.52	-1.05	7.00	1.80
57	AP059	Peaches / nectarines (fresh)	0.571	4.00	0.67	7.50	1.40
58	AP130	Soya sauce and other soya products (excl. Soya milk)	0.571	6.19	0.14	5.20	-3.00
59	AP066	Tea: Packaged or Otherwise Processed	0.568	6.33	1.43	5.00	1.40
60	AP137	Beer	0.568	5.19	1.00	6.20	0.60
61	AP065	Roasted Coffee and Coffee Substitutes	0.566	6.76	-0.90	4.50	-1.30
62	AP001	Bovine meat	0.566	8.00	1.57	3.20	-2.70
63	AP105	Olive oil, canola oil and other vegetable oils (excl. Soya bean and sunflower)	0.566	6.95	-1.00	4.30	0.30
64	AP106	Sunflower oil	0.561	5.43	-2.67	5.80	-0.00

#	Code	Description	Global Opportunities API	Global Market Growth	Δ 2015	Trade Barriers	Δ 2015
65	AP005	Animal offal	0.559	6.43	-0.71	4.70	-2.40
66	AP169	Cartons and containers made from paper and paperboard	0.551	4.48	1.24	6.60	2.20
67	AP091	Sunflower seeds	0.551	4.29	-4.57	6.80	4.40
68	AP103	Unrefined animal fats and vegetable oils	0.549	6.90	-0.24	4.00	-1.20
69	AP063	Fruit jams, marmalade, chutney and frozen fruit	0.546	7.43	0.76	3.40	-4.50
70	AP011	Whey, milk powder, creamers and other milk products	0.544	6.14	-3.86	4.70	-1.20
71	AP024	Potatoes and potato seed (fresh or chilled)	0.544	6.14	0.29	4.70	-1.30
72	AP031	Carrots, beetroots and other similar edible roots (fresh or chilled)	0.539	6.62	0.95	4.10	-2.80
73	AP079	Meal and flour from oats, barley, rye and malt	0.539	6.62	-0.48	4.10	-1.90
74	AP051	Grapes: fresh	0.537	6.48	2.10	4.20	-4.10
75	AP167	Toilet paper, tissues, napkins etc.	0.532	3.52	1.57	7.20	3.10
76	AP075	Rice (semi-milled, wholly milled or broken)	0.529	6.81	-0.05	3.70	-0.10
77	AP069	Wheat	0.524	5.95	-2.10	4.50	1.10
78	AP153	Wood in the rough, asides from wood for fuel	0.524	5.29	-0.43	5.20	1.50
79	AP161	Builders joinery and carpentry, of wood	0.522	4.00	0.57	6.50	2.70
80	AP138	Wine: bottled	0.517	3.62	0.95	6.80	0.20
81	AP163	Wood pulp	0.515	4.81	2.48	5.50	2.10
82	AP052	Dried fruit	0.510	5.67	1.33	4.50	-1.30
83	AP041	Bananas and Plantains	0.507	6.86	1.29	3.20	-3.00
84	AP047	Oranges	0.507	5.14	2.24	5.00	-1.30
85	AP056	Pears and quinces (fresh)	0.507	4.00	-1.62	6.20	2.80
86	AP053	Watermelons (fresh)	0.505	5.57	-0.62	4.50	-3.80
87	AP006	Poultry meat	0.500	5.67	-0.14	4.30	-2.70
88	AP110	Sausages and other processed meat (excl. Seafood)	0.498	5.14	-2.43	4.80	-2.90
89	AP143	Whisky, gin vodka and other spirituous liquors	0.490	4.90	-0.14	4.90	-3.10
90	AP158	Wooden furniture	0.490	3.67	1.29	6.20	0.80
91	AP080	Maize meal and maize flour (includes samp and mielie rice)	0.480	3.95	-4.48	5.70	3.10
92	AP055	Apples (fresh)	0.478	4.76	-0.43	4.80	0.70
93	AP060	Plums and sloes (fresh)	0.476	4.33	0.57	5.20	-0.90
94	AP116	Sugar confectionery, non-cocoa	0.473	5.05	0.62	4.40	-2.50
95	AP029	Lettuce (fresh or chilled)	0.463	3.33	0.57	6.00	-0.80
96	AP132	Soups and broths	0.461	4.81	-0.76	4.40	-3.70
97	AP154	Treated wooden poles, blocks and beams	0.451	3.57	1.33	5.50	1.50

#	Code	Description	Global Opportunities API	Global Market Growth	Δ 2015	Trade Barriers	Δ 2015
98	AP148	Leather	0.449	3.24	0.14	5.80	0.30
99	AP087	Soya beans	0.449	5.52	-1.95	3.40	-3.10
100	AP098	Sugar cane, raw	0.449	7.88	2.35	1.60	-5.70
101	AP008	Milk and cream	0.444	4.10	-3.57	4.80	0.10
102	AP034	Pumpkins, squashes and gourds (fresh or chilled)	0.434	6.44	-2.56	3.40	-5.90
103	AP007	Fish, fish products and other aquatic animals (shellfish, crutaceans, molluscs etc.)	0.434	4.67	0.57	4.00	-2.40
104	AP035	Frozen, canned or otherwise prepared vegetables	0.429	5.43	0.62	3.10	-3.80
105	AP044	Pineapples	0.429	3.24	-0.33	5.40	-2.00
106	AP165	Newspapers	0.427	1.19	-0.00	7.50	4.60
107	AP166	Stationery paper and paperboard	0.427	2.05	0.67	6.60	3.10
108	AP156	Particle board, including veneer faced	0.424	4.10	-0.57	4.40	-1.30
109	AP108	Margarine, edible animal or veg oil preparations nes	0.422	4.43	-2.52	4.00	-1.40
110	AP126	Canned fruit	0.417	5.48	1.71	2.80	-5.70
111	AP088	Ground nuts in shell	0.415	2.00	0.24	6.40	4.30
112	AP016	Natural animal fibres, including carded wool, and fabrics thereof	0.410	2.57	0.81	5.70	1.60
113	AP002	Swine meat	0.402	4.24	-0.71	3.80	-0.50
114	AP127	Pure fruit juice	0.400	3.71	-0.71	4.30	-3.60
115	AP022	Flowers, bulbs and other ornamental plants	0.395	2.48	0.05	5.50	-1.50
116	AP115	Processed non-confectionary sugars, sugar syrups and molasses	0.390	4.29	-2.43	3.50	-4.40
117	AP164	Waste/scrap paper & paper pulp products	0.390	2.95	-2.24	4.90	1.50
118	AP157	Fibreboard of wood or other ligneous materials	0.354	1.86	-1.10	5.30	0.80
119	AP174	Vegetable textile fibres (e.g. cotton, flax, jute)	0.351	2.48	-0.86	4.60	-0.00
120	AP104	Soya bean oil	0.349	3.10	-1.57	3.90	-2.40
121	AP050	Grapefruit	0.346	1.81	-0.71	5.20	1.90
122	AP175	Fabrics made from woven vegetable fibres (e.g. cotton, flax, jute)	0.329	2.52	-0.10	4.10	-1.00
123	AP145	Tobacco & tobacco products	0.327	2.57	-0.05	4.00	-2.10
124	AP112	Raw sugar, from sugar cane	0.324	3.29	-1.90	3.20	-1.20
125	AP114	Refined sugar	0.324	1.38	-3.43	5.20	2.40
126	AP107	Animal and vegetable fats or oils, hydrogenated only	0.320	2.33	-2.67	4.10	-0.70
127	AP017	Feathers, down, skins, other parts of birds	0.300	1.57	-4.62	4.50	0.40
128	AP171	Wool, not carded or combed	0.210	2.57	-2.29	1.60	-5.40