

**ONLINE APPENDIX**  
**China's Import Demand for Agricultural Products:**  
**The Impact of the Phase One Trade Agreement**

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**Data Appendix**

The Chinese import statistics used in this paper, by the Harmonized System (HS) classification and by source country and destination province over 1997-2017, were acquired by UC Davis from the Customs General Administration of the People's Republic of China. These data were purchased from Mr. George Chen, China Customs Statistics Information Center, Economic Information Agency, Hong Kong; [EIAET@PACIFIC.NET.HK](mailto:EIAET@PACIFIC.NET.HK). These statistics treat Hong Kong as a separate customs region. The Hong Kong trade statistics for imports, exports, and re-exports over 1997-2015, by HS classification and by source and destination countries, Census and Statistical Department, Hong Kong Special Administrative Region, were also purchased. We merged these datasets to attribute the products re-exported to China from Hong Kong back to the source country originally exporting to Hong Kong. In this way, we create Chinese imports (including those coming from Hong Kong attributed to the original source country) of agricultural products by destination province, for 1997-2017. Nominal "income" in the AIDS system, denoted by  $Y_i$ , is actually measured by total spending on all these agricultural imports from all source counties by province  $i$  in each year.

We further convert the HS classification to the BICO agricultural product classification

developed by the U.S. Department of Agriculture. Based on value or level of processing, agricultural goods are broken into distinct categories: bulk, intermediate, consumer-ready, and other products. Bulk goods—such as grains, soybean, cotton, and oilseeds—are relatively standardized products used as raw materials and inputs. They are sold in large quantities at relatively low unit costs. Comparatively, consumer-ready products are high value products that are usually ready for immediate use by consumers. They are typically higher value goods, mostly finished products, such as meat, dairy, eggs, fruits and vegetables, processed goods, chocolates, and wines. Compared with bulk commodities, consumer-oriented products are less substitutable, because they are easy to be differentiated by brand, quality, sanitary standards, and source countries. Other products are agricultural related products such as fish products, forest products, ethanol, and biodiesel.

Provincial level GDP, population, retail price indexes, and income data are obtained from China Statistical Yearbooks 1997-2017. Provincial level income inequality GINI indexes are from Tian (2012) and then extrapolated to 2017. Distance between Chinese provinces and each of its trading partners is measured as the sum of internal and external distance, which takes into account the fact that the interior provinces first transport the goods to the economic center or harbors by railway, and then send the goods from the economic center or harbors to the rest of the world. The internal distance is the train hours between the interior province and the economic center (Beijing) or harbor cities (Tianjin, Shanghai, and Guangdong), which is obtained from the Chinese Railroad Timetable. The external distance is the shipping distance from the harbor to the capital of other countries. The shipping distance is obtained from a World Map, which is designed for sketching the maritime transportation.

**Table A1: China's Top Imported Products from ROW and USA, 2017**

Category	BICO product	Rank in US Exports To China	Share in US Exports To China	Rank in World Exports To China	Share in World Exports To China
B	Soybeans	1	57.4%	1	29.9%
O	Forest Products	2	8.6%	2	8.9%
B	Cotton	3	4.0%	16	1.7%
B	Coarse Grains (ex. corn)	4	4.0%	14	2.2%
I	Hides & Skins	5	3.7%	15	2.2%
O	Fish Products	6	2.5%	5	4.1%
C	Pork & Pork Products	7	2.2%	10	2.8%
C	Dairy Products	8	2.2%	6	4.0%
C	Prepared Foods	9	1.8%	3	4.5%
C	Fresh Fruit	10	1.7%	7	3.8%
I	Hay	11	1.6%	33	0.4%
B	Wheat	12	1.6%	25	0.8%
I	Other Intermediate Products	13	1.5%	4	4.5%
B	Tobacco	14	0.7%	21	0.9%
B	Corn	15	0.7%	31	0.5%
C	Processed Fruit	16	0.6%	27	0.7%
C	Tree Nuts	17	0.6%	28	0.6%
I	Planting Seeds	18	0.6%	39	0.3%
C	Processed Vegetables	19	0.5%	19	1.3%
I	Essential Oils	20	0.5%	36	0.3%
I	Feeds & Fodders NESOI	21	0.5%	37	0.3%
C	Wine & Beer	22	0.3%	12	2.3%
I	Soybean Oil	23	0.3%	32	0.4%
C	Meat Products NESOI	24	0.3%	20	1.1%
I	Distillers Grains	25	0.3%	50	0.1%
B	Peanuts	26	0.2%	44	0.1%
I	Vegetable Oils NESOI	27	0.2%	13	2.3%
C	Chocolate & Cocoa Products	28	0.1%	34	0.4%
C	Beef & Beef Products	29	0.1%	11	2.4%
B	Pulses	30	0.1%	35	0.4%
C	Coffee, Roasted and Extracts	31	0.1%	43	0.2%
I	Live Animals	32	0.1%	40	0.2%
C	Condiments & Sauces	33	0.1%	46	0.1%
C	Snack Foods NESOI	34	0.1%	30	0.5%
B	Oilseeds NESOI	35	0.1%	23	0.8%
C	Fruit & Vegetable Juices	36	< 0.1%	42	0.2%
C	Distilled Spirits	37	< 0.1%	26	0.7%
I	Sugars & Sweeteners	38	< 0.1%	22	0.9%
C	Dog & Cat Food	39	< 0.1%	53	0.0%

C	Nursery Prod. & Cut Flowers	40	< 0.1%	41	0.2%
C	Non-Alcoholic Bev. (ex. juices, coffee, tea)	41	< 0.1%	49	0.1%
I	Animal Fats	42	< 0.1%	48	0.1%
B	Coffee, Unroasted	43	< 0.1%	47	0.1%
B	Rubber & Allied Gums	44	< 0.1%	8	3.7%
C	Tea	45	< 0.1%	45	0.1%
B	Other Bulk Commodities	46	< 0.1%	29	0.6%
C	Fresh Vegetables	47	< 0.1%	56	0.0%
C	Spices	48	< 0.1%	52	0.0%
C	Eggs & Products	49	< 0.1%	58	0.0%
O	Ethanol	50	< 0.1%	55	0.0%
I	Soybean meal	51	< 0.1%	54	0.0%
O	Biodiesel & Blends > B30	52	< 0.1%	57	0.0%
C	Poultry Meat & Prods. (ex. eggs)	53	< 0.1%	24	0.8%
B	Rice	54	< 0.1%	18	1.4%
I	Oilseed Meal/Cake	55	< 0.1%	38	0.3%
B	Cocoa Beans	56	< 0.1%	51	0.0%
I	Palm Oil	57	< 0.1%	9	3.3%
B	Rapeseed	58	nil	17	1.6%
2017 Total Ag Import Value (billion US\$)			USA: 24.21	World 132.41	

Note: Authors' calculation using trade data from China and Hong Kong's customs office.

**Table A2: Impact on United States, Zero Growth from 2017,  
Complete list of Products**

<b>Agricultural Product</b>	<b>No Subsidy 2020 &amp; 21 Million US\$</b>	<b>Subsidy=42% Difference from 2020</b>		<b>Subsidy=59% Difference from 2021</b>	
		<b>Million US\$</b>	<b>Percent</b>	<b>Million US\$</b>	<b>Percent</b>
Soybeans	13858.8	289.2	2.1%	529.7	3.8%
Forest Products	2080.7	359	17.3%	558.7	26.9%
Cotton	975.3	278.3	28.5%	429.3	44.0%
Coarse Grains (ex. corn)	918.2	117.7	12.8%	228	24.8%
Hides & Skins	898.7	309.6	34.5%	478.7	53.3%
Fish Products	607.3	305.7	50.3%	473.8	78.0%
Pork & Pork Products	535.5	308.6	57.6%	476.7	89.0%
Dairy Products	529.9	322.4	60.8%	499.1	94.2%
Prepared Foods	426	333.7	78.3%	517.4	121.4%
Fresh Fruit	400.9	299.1	74.6%	463.2	115.5%
Wheat	390.4	210.6	53.9%	316.4	81.0%
Hay	387.3	241.8	62.4%	367.8	95.0%
Other Intermediate Products	366	336.1	91.8%	521.1	142.4%
Tobacco	166.7	139.5	83.7%	212.9	127.7%
Processed Fruit	155.5	329.4	211.8%	510.4	328.3%
Corn	147.5	127.6	86.5%	186.2	126.2%
Tree Nuts	144.8	305	210.6%	470.8	325.1%
Planting Seeds	140.7	220.2	156.5%	341.5	242.7%
Processed Vegetables	126	313	248.5%	484.2	384.4%
Essential Oils	123	314.7	255.8%	486.5	395.4%
Feeds & Fodders NESOI	120.8	304.7	252.3%	471.3	390.3%
Wine & Beer	80.7	331.1	410.5%	513.5	636.6%
Soybean Oil	70.4	229.5	326.2%	351.1	499.0%
Meat Products NESOI	69.8	269.6	386.3%	416.7	597.1%
Distillers Grains	65.2	62.1	95.1%	85.2	130.6%
Peanuts	59.4	65.2	109.7%	99.1	166.8%
Vegetable Oils NESOI	42.7	323.5	756.8%	501.1	>1,000%
Chocolate & Cocoa Products	25.5	299.4	>1,000%	463.5	>1,000%
Beef & Beef Products	25.1	240.4	956.4%	370	>1,000%
Pulses	24.7	228.7	924.7%	351.5	>1,000%
Coffee, Roasted and Extracts	20	235.1	>1,000%	364.4	>1,000%
Live Animals	18.9	271.3	>1,000%	418.6	>1,000%
Condiments & Sauces	13.8	305.8	>1,000%	473.2	>1,000%
Snack Foods NESOI	13.6	310.1	>1,000%	480.3	>1,000%
Oilseeds NESOI	12.7	170.7	>1,000%	267	>1,000%
Fruit & Vegetable Juices	10.9	287.8	>1,000%	445.2	>1,000%

Distilled Spirits	9.7	226.6	>1,000%	352.6	>1,000%
Sugars & Sweeteners	7.4	303.2	>1,000%	469.6	>1,000%
Dog & Cat Food	4.4	159.9	>1,000%	247.2	>1,000%
Nursery Products & Cut Flowers	4.1	296	>1,000%	456.3	>1,000%
Non-Alcoholic Bev.	3	223.3	>1,000%	346.7	>1,000%
Animal Fats	2.4	172.6	>1,000%	267.4	>1,000%
Coffee, Unroasted	1	209.6	>1,000%	324.6	>1,000%
Rubber & Allied Gums	0.8	157.5	>1,000%	244.3	>1,000%
Tea	0.7	198.3	>1,000%	307.9	>1,000%
Other Bulk Commodities	0.6	212.7	>1,000%	330.2	>1,000%
Fresh Vegetables	0.5	148.7	>1,000%	229.9	>1,000%
Spices	0.4	229.2	>1,000%	352.9	>1,000%
Ethanol	0.3	125.3	>1,000%	190.5	>1,000%
Eggs & Products	0.3	112.4	>1,000%	176.4	>1,000%
Soybean meal	0.2	93.8	>1,000%	146.5	>1,000%
Biodiesel & Blends > B30	0.1	43.9	>1,000%	65.6	>1,000%
Poultry Meat & Prods. (ex. eggs)	0.1	44.5	>1,000%	69.2	>1,000%
Rice	0.1	112.8	>1,000%	176.1	>1,000%
Oilseed Meal/Cake (ex. soybean)	< 0.1	13.9	>1,000%	21.1	>1,000%
Cocoa Beans	< 0.1	11.0	>1,000%	16.3	>1,000%
Palm Oil	< 0.1	34.7	>1,000%	54.8	>1,000%

Note: All products that were exported to China in 2017 are reported, with < 0.1 indicating that export sales or the drop in exports was less than \$50,000.

**Table A3: Forecast of China’s Import Demand from the United States, with Homothetic Demand**

	2020	2021	Impact on US imports		
	billion US\$		Year	Bill US\$	Percent
<b>Phase One Target</b>	<b>36.6</b>	<b>43.6</b>			
Average 2007-17 growth from 2017	33.98	38.14			
Average 2007-17 growth, <b>subsidy = 12%</b>	<b>38.29</b>	42.94	2020	+4.31	12.7%
Average 2007-17 growth, <b>subsidy = 23%</b>	42.63	<b>47.79</b>	2021	+9.65	25.3%
0.5*Ave 2007-17 growth from 2017	28.60	30.29			
0.5*Ave 2007-17 growth, <b>subsidy = 28%</b>	<b>37.75</b>	39.96	2020	+9.15	32.0%
0.5*Ave 2007-17 growth, <b>subsidy = 41%</b>	42.97	<b>45.46</b>	2021	+15.17	44.4%
Zero growth from 2017	24.09	24.09			
Zero growth from 2017, <b>subsidy = 42%</b>	<b>36.66</b>	36.66	2020	+12.57	52.2%
Zero growth from 2017, <b>subsidy = 59%</b>	43.78	<b>43.78</b>	2021	+19.69	81.7%

Note: These results are computed with homothetic demand, as explained at the end of section 5.1 in the main text.

**Table A4: Forecasted Chinese Imports from Partner Countries,  
with Zero growth from 2017, Complete list of the countries**

Country	No Subsidy 2020 & 2021 Billion US\$	Subsidy=42%		Subsidy=59%	
		Difference from 2020		Difference from 2021	
		billion US\$	Percent	billion	Percent
ROW	105.86	-12.52	-11.8%	-19.46	-18.4%
1 Brazil	24.08	-0.59	-2.5%	-0.96	-4.0%
2 Australia	9.18	-0.99	-10.8%	-1.67	-18.1%
3 Thailand	7.65	-0.51	-6.6%	-0.90	-11.8%
4 Canada	6.38	-0.87	-13.6%	-1.34	-20.9%
5 Indonesia	5.81	-0.49	-8.5%	-0.82	-14.1%
6 New Zealand	5.34	-0.43	-8.1%	-0.75	-14.0%
7 Malaysia	4.34	-0.48	-11.2%	-0.79	-18.3%
8 Vietnam	3.73	-0.57	-15.2%	-0.92	-24.5%
9 Argentina	3.55	-0.31	-8.6%	-0.41	-11.5%
10 France	2.99	-0.42	-14.0%	-0.69	-23.1%
11 Netherlands	2.93	-0.44	-14.9%	-0.65	-22.3%
12 Chile	2.12	-0.26	-12.3%	-0.45	-21.1%
13 Germany	1.97	-0.35	-18.0%	-0.59	-29.9%
14 Uruguay	1.86	-0.20	-11.0%	-0.24	-13.0%
15 Russia	1.77	-0.15	-8.3%	-0.21	-12.0%
16 Spain	1.46	-0.32	-22.0%	-0.53	-36.5%
17 Denmark	1.44	-0.22	-15.2%	-0.36	-24.7%
18 Ukraine	1.13	-0.28	-25.1%	-0.43	-38.5%
19 India	1.09	-0.30	-27.5%	-0.46	-42.4%
20 South Africa	0.97	-0.18	-18.4%	-0.27	-27.7%
21 South Korea	0.96	-0.32	-33.6%	-0.48	-50.1%
22 Belgium	0.88	-0.28	-32.1%	-0.43	-49.0%
23 Ireland	0.86	-0.14	-16.3%	-0.20	-23.5%
24 Philippines	0.78	-0.18	-23.1%	-0.26	-33.5%
25 Taiwan	0.68	-0.21	-31.3%	-0.30	-44.2%
26 United Kingdom	0.62	-0.22	-35.4%	-0.31	-50.7%
27 Japan	0.62	-0.28	-46.0%	-0.40	-63.9%
28 Singapore	0.61	-0.19	-31.0%	-0.27	-44.3%
29 Papua New Guinea	0.59	-0.03	-5.2%	-0.06	-9.9%
30 Italy	0.57	-0.25	-43.4%	-0.34	-60.3%
31 Solomon Is	0.48	-0.02	-3.6%	-0.03	-6.2%
32 Nigeria	0.45	-0.06	-13.3%	-0.09	-19.2%
33 Myanmar	0.42	-0.08	-17.7%	-0.09	-20.3%
34 Peru	0.39	-0.08	-20.0%	-0.12	-30.1%
35 Laos, PDR	0.39	-0.02	-4.5%	-0.03	-8.6%
36 Mozambique	0.36	-0.06	-17.4%	-0.11	-31.5%
37 Norway	0.32	-0.03	-9.7%	-0.06	-17.8%
38 Cameroon	0.30	-0.03	-10.5%	-0.06	-19.3%
39 Mongolia	0.30	-0.01	-4.9%	-0.02	-7.6%

40	Sudan	0.29	-0.06	-21.9%	-0.11	-37.4%
41	Eq. Guinea	0.27	-0.01	-3.7%	-0.02	-8.3%
42	Ecuador	0.27	-0.08	-29.4%	-0.12	-45.3%
43	Finland	0.26	-0.05	-20.3%	-0.08	-29.5%
44	Zimbabwe	0.25	-0.04	-17.6%	-0.06	-25.8%
45	Cuba	0.24	-0.04	-14.6%	-0.07	-30.5%
46	Ethiopia	0.24	0.01	2.5%	0.00	0.9%
47	Gabon	0.23	-0.05	-20.9%	-0.07	-30.8%
48	Congo	0.22	-0.02	-8.6%	-0.03	-15.9%
49	Pakistan	0.21	-0.07	-32.4%	-0.09	-43.8%
50	Turkey	0.20	-0.12	-59.4%	-0.14	-68.3%
51	Mexico	0.20	-0.09	-46.7%	-0.11	-57.3%
52	Romania	0.19	-0.06	-31.3%	-0.09	-47.6%
53	Kazakhstan	0.19	-0.01	-7.0%	-0.02	-10.0%
54	Iran	0.18	-0.05	-30.5%	-0.10	-53.7%
55	Korea, DPR	0.16	-0.02	-12.4%	-0.03	-17.5%
56	Switzerland	0.16	-0.05	-34.0%	-0.07	-47.9%
57	Poland	0.15	-0.08	-52.7%	-0.10	-68.6%
58	Tanzania	0.15	-0.06	-41.7%	-0.10	-69.0%
59	Democratic	0.15	-0.04	-26.0%	-0.06	-41.2%
60	Senegal	0.13	-0.05	-41.0%	-0.08	-65.8%
61	Ghana	0.12	-0.04	-36.0%	-0.06	-53.0%
62	Slovenia	0.11	-0.06	-54.0%	-0.09	-77.7%
63	Egypt	0.11	-0.04	-37.9%	-0.06	-53.1%
64	Uzbekistan	0.09	-0.01	-11.3%	-0.01	-12.9%
65	Benin	0.09	-0.04	-43.1%	-0.08	-83.2%
66	Israel	0.08	-0.04	-53.0%	-0.06	-71.5%
67	ROW	0.08	-0.02	-27.9%	-0.04	-48.1%
68	Sri Lanka	0.08	-0.05	-65.9%	-0.06	-74.2%
69	Cote d'Ivoire	0.07	-0.04	-64.1%	-0.06	-86.8%
70	Togo	0.06	-0.04	-62.9%	-0.06	-86.2%
71	Sweden	0.06	-0.05	-76.0%	-0.05	-84.1%
72	United Arab	0.05	-0.04	-72.1%	-0.05	-90.5%
73	Greece	0.04	-0.04	-99.8%	-0.04	-99.5%
74	Bangladesh	0.03	-0.02	-57.2%	-0.02	-70.7%
75	Mali	0.03	-0.02	-70.9%	-0.02	-76.8%
76	Latvia	0.02	-0.02	-88.3%	-0.02	-96.7%
77	Guatemala	0.02	-0.01	-82.3%	-0.02	-98.4%

**Table A5: Forecasted China Imports from Partner Countries,  
with Half of Average 10 year growth, 2007-2017**

Country	No Subsidy		Subsidy=28%		Subsidy=41%	
	2020	2021	Difference from 2020		Difference from 2021	
	Billion US\$		Billion US\$	Percent	Billion US\$	Percent
ROW	124.70	131.68	-8.22	-6.6%	-13.35	-10.1%
1 Brazil	29.37	31.50	-0.16	-0.6%	-0.29	-0.9%
2 Australia	10.23	10.57	-0.64	-6.2%	-1.09	-10.3%
3 Thailand	8.74	9.13	-0.38	-4.4%	-0.69	-7.6%
4 Canada	7.20	7.59	-0.32	-4.4%	-0.53	-7.0%
5 New Zealand	6.45	6.81	-0.31	-4.8%	-0.54	-8.0%
6 Indonesia	5.92	5.97	-0.30	-5.1%	-0.50	-8.3%
7 Malaysia	4.64	4.84	-0.36	-7.7%	-0.62	-12.9%
8 Argentina	4.64	5.18	-0.05	-1.0%	-0.09	-1.7%
9 France	3.71	3.94	-0.29	-7.9%	-0.51	-12.9%
10 Netherlands	3.41	3.58	-0.30	-8.7%	-0.46	-12.8%
11 Vietnam	3.07	2.94	-0.22	-7.2%	-0.32	-10.9%
12 Germany	2.66	2.86	-0.31	-11.7%	-0.51	-17.9%
13 Chile	2.62	2.77	-0.18	-7.0%	-0.34	-12.4%
14 Uruguay	2.54	2.90	0.00	-0.1%	-0.04	-1.3%
15 Russia	2.23	2.47	-0.06	-2.8%	-0.12	-5.0%
16 Spain	1.77	1.86	-0.24	-13.3%	-0.36	-19.2%
17 Denmark	1.65	1.71	-0.15	-8.9%	-0.26	-15.3%
18 Ukraine	1.37	1.48	-0.16	-11.5%	-0.27	-18.4%
19 South Korea	1.25	1.31	-0.25	-19.6%	-0.40	-30.7%
20 South Africa	1.22	1.26	-0.17	-14.2%	-0.26	-20.9%
21 Taiwan	1.08	1.16	-0.27	-25.2%	-0.40	-34.0%
22 Singapore	1.05	1.21	-0.17	-16.1%	-0.29	-23.8%
23 Ireland	1.02	1.05	-0.09	-9.0%	-0.14	-13.0%
24 Belgium	1.01	1.03	-0.19	-18.8%	-0.31	-29.5%
25 India	0.97	0.93	-0.20	-20.6%	-0.28	-30.2%
26 Japan	0.92	0.99	-0.25	-26.8%	-0.38	-38.3%
27 United Kingdom	0.84	0.90	-0.19	-22.2%	-0.30	-33.1%
28 Italy	0.78	0.77	-0.27	-34.5%	-0.37	-48.1%
29 Papua New Guinea	0.73	0.78	-0.02	-2.4%	-0.04	-5.1%
30 Ethiopia	0.69	0.86	-0.01	-2.1%	-0.04	-4.9%
31 Philippines	0.67	0.64	-0.09	-13.8%	-0.13	-20.9%
32 Solomon Is	0.60	0.64	-0.01	-2.3%	-0.02	-3.6%
33 Nigeria	0.57	0.61	-0.06	-10.4%	-0.11	-18.1%
34 Myanmar	0.52	0.58	-0.05	-8.8%	-0.08	-14.7%
35 Peru	0.46	0.47	-0.05	-10.6%	-0.08	-16.5%
36 Laos, PDR	0.46	0.50	-0.01	-1.9%	-0.01	-2.1%
37 Zimbabwe	0.41	0.47	-0.05	-11.7%	-0.09	-20.0%
38 Cameroon	0.39	0.41	-0.03	-6.6%	-0.04	-10.7%
39 Norway	0.39	0.41	-0.03	-7.3%	-0.05	-11.4%

40	Mozambique	0.34	0.39	-0.04	-12.7%	-0.09	-21.9%
41	Cuba	0.33	0.35	-0.03	-8.4%	-0.06	-17.3%
42	Sudan	0.33	0.34	-0.04	-13.0%	-0.07	-20.5%
43	Mongolia	0.31	0.32	-0.01	-1.6%	-0.01	-2.1%
44	Congo	0.30	0.33	-0.02	-5.2%	-0.04	-11.4%
45	Eq. Guinea	0.30	0.31	0.00	-1.4%	-0.01	-3.5%
46	Pakistan	0.28	0.30	-0.06	-20.7%	-0.12	-39.0%
47	Finland	0.28	0.28	-0.05	-17.7%	-0.06	-20.9%
48	Poland	0.26	0.27	-0.08	-32.0%	-0.11	-40.7%
49	Ecuador	0.25	0.26	-0.03	-13.2%	-0.07	-27.1%
50	Mexico	0.24	0.23	-0.08	-32.3%	-0.09	-37.1%
51	Kazakhstan	0.22	0.23	-0.01	-4.7%	-0.02	-7.8%
52	Switzerland	0.21	0.21	-0.04	-19.9%	-0.07	-31.5%
53	Tanzania	0.20	0.21	-0.05	-23.7%	-0.09	-41.1%
54	Senegal	0.20	0.21	-0.06	-31.9%	-0.09	-45.4%
55	Iran	0.17	0.17	-0.04	-25.1%	-0.06	-36.4%
56	Korea, DPR	0.16	0.16	-0.01	-6.4%	-0.02	-11.6%
57	Israel	0.15	0.16	-0.06	-41.1%	-0.09	-56.0%
58	Slovenia	0.15	0.16	-0.05	-35.0%	-0.07	-44.1%
59	Ghana	0.14	0.14	-0.04	-28.4%	-0.05	-36.4%
60	Turkey	0.14	0.13	-0.05	-37.6%	-0.06	-47.2%
61	Democratic Kampuchea	0.13	0.12	-0.03	-25.3%	-0.05	-42.3%
62	Mali	0.13	0.16	-0.04	-28.1%	-0.07	-46.1%
63	Romania	0.12	0.11	-0.03	-26.5%	-0.03	-31.4%
64	United Arab Emirates	0.12	0.12	-0.06	-51.1%	-0.07	-60.5%
65	Sri Lanka	0.11	0.11	-0.02	-13.9%	-0.03	-28.8%
66	ROW	0.11	0.10	-0.05	-45.1%	-0.06	-55.4%
67	Uzbekistan	0.10	0.10	-0.05	-49.1%	-0.06	-57.8%
68	Sweden	0.10	0.11	0.00	-4.8%	-0.01	-5.9%
69	Egypt	0.10	0.09	-0.02	-20.5%	-0.02	-27.3%
70	Gabon	0.08	0.05	-0.01	-11.4%	-0.01	-23.4%
71	Greece	0.08	0.08	-0.05	-62.6%	-0.05	-65.7%
72	Togo	0.07	0.08	-0.03	-37.1%	-0.05	-59.2%
73	Bangladesh	0.07	0.08	-0.03	-45.0%	-0.05	-67.1%
74	Benin	0.06	0.06	-0.02	-26.6%	-0.03	-45.7%
75	Guatemala	0.04	0.03	-0.03	-68.7%	-0.03	-89.7%
76	Cote d'Ivoire	0.02	0.01	-0.01	-81.4%	-0.01	-76.5%
77	Latvia	0.01	0.01	-0.01	-74.0%	-0.01	-87.9%

**Table A6: Forecasted China Imports from Partner Countries,  
with Average 10 year growth, 2007-2017**

Country	No Subsidy		Subsidy=12%		Subsidy=23%	
	2020	2021	Difference from 2020	Percent	Difference from 2021	Percent
	Billion US\$		billion US\$	Percent	billion US\$	Percent
ROW	147.08	164.56	-2.88	-2.0%	-6.11	-3.7%
1 Brazil	36.25	41.69	-0.05	-0.1%	-0.15	-0.4%
2 Australia	11.32	12.19	-0.24	-2.1%	-0.55	-4.5%
3 Thailand	10.03	11.12	-0.14	-1.4%	-0.35	-3.1%
4 Canada	8.60	9.76	-0.11	-1.3%	-0.22	-2.2%
5 New Zealand	7.65	8.56	-0.11	-1.4%	-0.28	-3.3%
6 Argentina	6.40	7.81	-0.01	-0.1%	-0.04	-0.5%
7 Indonesia	6.11	6.40	-0.10	-1.7%	-0.20	-3.1%
8 Malaysia	5.17	5.44	-0.14	-2.7%	-0.32	-5.8%
9 France	4.38	4.82	-0.11	-2.5%	-0.25	-5.3%
10 Netherlands	3.95	4.36	-0.10	-2.6%	-0.23	-5.2%
11 Uruguay	3.70	4.62	0.00	0.1%	-0.01	-0.3%
12 Germany	3.26	3.65	-0.12	-3.7%	-0.24	-6.7%
13 Chile	3.03	3.27	-0.07	-2.4%	-0.18	-5.5%
14 Russia	2.99	3.59	-0.02	-0.8%	-0.07	-1.8%
15 Vietnam	2.83	2.87	-0.06	-2.2%	-0.09	-3.2%
16 Spain	2.07	2.31	-0.08	-4.0%	-0.17	-7.2%
17 Denmark	1.81	1.91	-0.06	-3.2%	-0.12	-6.3%
18 Ukraine	1.74	2.04	-0.07	-3.8%	-0.15	-7.2%
19 Singapore	1.52	1.87	-0.06	-3.9%	-0.14	-7.6%
20 South Korea	1.39	1.43	-0.09	-6.2%	-0.18	-12.9%
21 South Africa	1.36	1.53	-0.06	-4.2%	-0.11	-7.3%
22 Taiwan	1.29	1.42	-0.10	-7.5%	-0.16	-11.5%
23 Ethiopia	1.22	1.63	0.00	-0.3%	-0.02	-1.1%
24 Japan	1.12	1.25	-0.09	-7.8%	-0.15	-12.2%
25 Ireland	1.11	1.17	-0.03	-2.4%	-0.05	-3.9%
26 Belgium	1.06	1.08	-0.06	-6.0%	-0.13	-11.6%
27 United Kingdom	1.02	1.13	-0.06	-6.3%	-0.15	-13.4%
28 India	0.88	0.94	-0.05	-6.2%	-0.11	-11.7%
29 Papua New Guinea	0.87	0.97	-0.01	-0.8%	-0.02	-1.8%
30 Italy	0.73	0.67	-0.09	-12.5%	-0.14	-20.1%
31 Solomon Is	0.73	0.82	0.00	-0.5%	-0.01	-1.4%
32 Myanmar	0.69	0.80	-0.02	-2.9%	-0.05	-6.3%
33 Nigeria	0.64	0.65	-0.03	-4.0%	-0.05	-7.3%
34 Philippines	0.60	0.57	-0.03	-4.3%	-0.05	-8.6%
35 Zimbabwe	0.59	0.72	-0.02	-3.8%	-0.06	-8.2%
36 Laos, PDR	0.58	0.68	0.00	-0.4%	-0.01	-0.8%
37 Peru	0.50	0.52	-0.02	-3.2%	-0.03	-5.9%
38 Mozambique	0.49	0.59	-0.02	-4.0%	-0.05	-7.7%
39 Cameroon	0.45	0.48	-0.01	-2.4%	-0.02	-4.4%

40	Norway	0.44	0.48	-0.01	-1.9%	-0.02	-3.5%
41	Cuba	0.39	0.42	-0.01	-3.0%	-0.04	-8.4%
42	Congo	0.38	0.42	-0.02	-4.1%	-0.04	-9.5%
43	Sudan	0.38	0.42	-0.01	-1.9%	-0.02	-5.7%
44	Mongolia	0.34	0.36	0.00	-0.5%	0.00	-1.1%
45	Eq. Guinea	0.32	0.38	-0.02	-7.7%	-0.05	-12.0%
46	Poland	0.32	0.32	0.00	-0.7%	-0.01	-2.5%
47	Pakistan	0.31	0.30	-0.02	-7.3%	-0.06	-19.4%
48	Finland	0.28	0.28	-0.02	-6.3%	-0.02	-6.6%
49	Ecuador	0.26	0.25	-0.01	-5.2%	-0.04	-15.5%
50	Kazakhstan	0.25	0.28	0.00	-1.4%	-0.01	-3.0%
51	Mexico	0.23	0.25	-0.02	-9.2%	-0.03	-11.5%
52	Senegal	0.23	0.23	-0.02	-7.7%	-0.05	-20.3%
53	Switzerland	0.21	0.27	-0.02	-7.2%	-0.04	-14.6%
54	Mali	0.21	0.22	-0.01	-6.3%	-0.02	-8.9%
55	Tanzania	0.20	0.17	-0.03	-13.1%	-0.04	-21.7%
56	Iran	0.19	0.20	-0.01	-6.5%	-0.03	-15.6%
57	Israel	0.19	0.22	-0.02	-9.3%	-0.03	-11.4%
58	Korea, DPR	0.17	0.16	0.00	-2.4%	-0.01	-4.8%
59	Slovenia	0.16	0.17	-0.02	-12.9%	-0.05	-28.8%
60	Romania	0.13	0.14	-0.01	-5.8%	-0.02	-13.0%
61	Ghana	0.12	0.13	-0.01	-12.0%	-0.02	-18.1%
62	United Arab Emirates	0.12	0.13	-0.01	-11.8%	-0.02	-13.7%
63	Turkey	0.12	0.11	-0.01	-5.2%	-0.02	-16.5%
64	ROW	0.12	0.10	-0.01	-9.8%	-0.01	-10.6%
65	Uzbekistan	0.11	0.12	0.00	-1.4%	0.00	-0.4%
66	Sweden	0.10	0.11	-0.01	-12.7%	-0.02	-15.9%
67	Democratic Kampuchea	0.10	0.06	-0.01	-13.1%	-0.02	-41.7%
68	Sri Lanka	0.10	0.09	-0.01	-14.9%	-0.01	-13.3%
69	Greece	0.09	0.10	-0.01	-15.7%	-0.03	-25.3%
70	Togo	0.08	0.07	-0.01	-15.5%	-0.02	-27.2%
71	Bangladesh	0.08	0.06	0.00	-5.3%	-0.01	-8.9%
72	Egypt	0.08	0.06	-0.01	-14.4%	-0.02	-26.3%
73	Gabon	0.07	0.10	0.00	-2.9%	-0.01	-6.4%
74	Benin	0.05	0.04	-0.01	-11.8%	-0.01	-18.6%
75	Guatemala	0.02	0.02	-0.01	-27.4%	-0.01	-48.3%
76	Cote d'Ivoire	0.01	0.01	< 0.01	-35.4%	< 0.01	-4.9%
77	Latvia	< 0.01	< 0.01	< 0.01	-37.0%	< 0.01	-100.7%

**Table A7: Forecast of China's Import Demand for Coarse Grains (except corn),  
Zero growth from 2017**

Country	No Subsidy	Subsidy=42%		Subsidy=59%	
	2020 & 21 Million US\$	Difference from 2020		Difference from 2021	
		Million US\$	Percent	Million US\$	Percent
United States	918.2	117.7	12.8%	228.0	24.8%
ROW	2,814.3	-290.5	-10.3%	-470.0	-16.7%
Australia	1,391.0	-143.6	-10.3%	-228.8	-16.4%
Canada	324.6	-71.8	-22.1%	-121.2	-37.3%
Ukraine	129.1	-39.4	-30.5%	-71.1	-55.1%
France	47.3	-31.7	-67.0%	-44.8	-94.7%
Denmark	1.5	-1.5	-100.0%	-1.5	-100.0%
Peru	0.7	-0.7	-100.0%	-0.7	-100.0%
Myanmar	0.5	-0.4	-76.1%	-0.5	-100.0%
Germany	0.3	-0.3	-100.0%	-0.3	-100.0%
Spain	0.2	-0.2	-100.0%	-0.2	-100.0%
United Kingdom	0.2	-0.2	-100.0%	-0.2	-100.0%
Korea Rep	0.2	-0.2	-100.0%	-0.2	-100.0%
Malaysia	0.2	-0.2	-100.0%	-0.2	-100.0%
Japan	0.2	-0.2	-100.0%	-0.2	-100.0%
Chile	0.1	-0.1	-100.0%	-0.1	-100.0%
New Zealand	0.1	-0.1	-100.0%	-0.1	-100.0%

Note: Only countries with 2017 exports to China greater than \$50,000 are reported.

**Table A8: Forecast of China's Import Demand for Cotton, Zero Growth from 2017**

Country	No Subsidy	Subsidy=42%		Subsidy=59%	
	2020 & 2021 Million US\$	Difference from 2020 Million US\$	Percent	Difference from 2021 Million US\$	Percent
United States	975.3	278.3	28.5%	429.3	44.0%
ROW	1,234.6	-357.8	-29.0%	-536.6	-43.5%
Australia	480	-63.4	-13.2%	-103.9	-21.6%
India	216.3	-43.7	-20.2%	-79	-36.5%
Brazil	124	-42	-33.9%	-68.4	-55.2%
Iran	103.6	-28.5	-27.6%	-53.2	-51.4%
Uzbekistan	68.7	-8.1	-11.8%	-9.6	-14.1%
Benin	61.9	-27.2	-43.9%	-49.6	-80.1%
Sudan	23.8	-14	-58.8%	-23.8	-100.0%
Togo	23.1	-14.5	-62.9%	-22.9	-99.0%
Cote d'Ivoire	17.8	-15.7	-88.3%	-17.5	-98.7%
Greece	17.4	-17.4	-100.0%	-17.4	-100.0%
Mexico	17.3	-12.9	-74.8%	-17.3	-100.0%
Turkey	16.7	-15.9	-95.3%	-16.7	-100.0%
Israel	12.1	-11.4	-94.6%	-11.7	-97.3%
Cameroon	10.5	-8.8	-83.9%	-8.9	-84.3%
Egypt	7.9	-7.8	-99.3%	-7.9	-100.0%
Kazakhstan	5.6	-1.3	-23.7%	-1.5	-26.4%
South Africa	5.4	-3.2	-59.8%	-4.7	-85.6%
Malaysia	4.8	-4.8	-100.0%	-4.8	-100.0%
United Arab Emirates	3.9	-3.9	-100.0%	-3.9	-100.0%
Italy	1.5	-0.8	-53.6%	-1.5	-100.0%
Canada	1.4	-1.4	-100.0%	-1.4	-100.0%
Zimbabwe	1.4	-1.4	-100.0%	-1.4	-100.0%
Russia	1.2	-1.2	-100.0%	-1.2	-100.0%
Pakistan	1.2	-1.2	-100.0%	-1.2	-100.0%
Spain	1	-1	-100.0%	-1	-100.0%
Korea Rep	0.9	-0.9	-100.0%	-0.9	-100.0%
Senegal	0.9	-0.9	-100.0%	-0.9	-100.0%
Vietnam	0.8	-0.8	-100.0%	-0.8	-100.0%
Singapore	0.8	-0.8	-100.0%	-0.8	-100.0%
Tanzania	0.7	-0.7	-100.0%	-0.7	-100.0%
Nigeria	0.6	-0.6	-100.0%	-0.6	-100.0%
Argentina	0.5	-0.5	-100.0%	-0.5	-100.0%
Taiwan	0.5	-0.5	-100.0%	-0.5	-100.0%
Mozambique	0.5	-0.5	-100.0%	-0.5	-100.0%
Belgium	0.2	-0.2	-100.0%	-0.2	-100.0%

Note: Only countries with 2017 exports to China greater than \$50,000 are reported.

**Table A9: Forecast of China's Import Demand for Pork, Zero Growth from 2017**

Country	No Subsidy 2020 & 2021 Million US\$	Subsidy=42% Difference from 2020 Million US\$    Percent		Subsidy=59% Difference from 2021 Million US\$    Percent	
	United States	535.5	308.6	57.6%	476.7
ROW	3,155.3	-510.9	-16.2%	-875.9	-27.8%
Spain	645.6	-55.2	-8.6%	-113.9	-17.6%
Germany	607.3	-51.8	-8.5%	-101.3	-16.7%
Canada	456.9	-57.7	-12.6%	-113.6	-24.9%
Denmark	400.1	-49	-12.2%	-81.3	-20.3%
Netherlands	311.5	-53.2	-17.1%	-87.2	-28.0%
France	228.3	-53.6	-23.5%	-86.2	-37.8%
Brazil	112.5	-42.5	-37.8%	-65	-57.8%
Chile	100.5	-31	-30.9%	-51.9	-51.7%
Ireland	98.1	-37.9	-38.6%	-55.7	-56.7%
United Kingdom	96.1	-33.4	-34.8%	-54.4	-56.6%
Belgium	38.9	-20.2	-51.8%	-24.3	-62.6%
Slovenia	37.3	-13.7	-36.9%	-28.2	-75.7%
Romania	14	-3.4	-24.6%	-4.7	-33.8%
Mexico	3.2	-3.1	-97.6%	-3.1	-97.6%
Italy	2.8	-2.8	-100.0%	-2.8	-100.0%
Finland	2.0	-2.0	-100.0%	-2.0	-100.0%
Korea Rep	0.1	-0.1	-100.0%	-0.1	-100.0%
Cote d'Ivoire	0.1	-0.1	-100.0%	-0.1	-100.0%

Note: Only countries with 2017 exports to China greater than \$50,000 are reported.

**Table A10: Forecast of China's Import Demand for Beef, Zero Growth from 2017**

<b>Country</b>	<b>No Subsidy 2020 &amp; 2021 Million US\$</b>	<b>Subsidy=42% Difference from 2020</b>		<b>Subsidy=59% Difference from 2021</b>	
		<b>Million US\$</b>	<b>Percent</b>	<b>Million US\$</b>	<b>Percent</b>
United States	25.1	240.4	956.4%	370	1,472.4%
ROW	3,091.7	-349.9	-11.3%	-626.5	-20.3%
Brazil	870.4	-70	-8.0%	-140.9	-16.2%
Uruguay	683.9	-62.5	-9.1%	-103.5	-15.1%
Australia	672.7	-69.4	-10.3%	-138.6	-20.6%
New Zealand	396.2	-59.7	-15.1%	-109.7	-27.7%
Argentina	369.9	-45.8	-12.4%	-60.6	-16.4%
Canada	79.3	-30.2	-38.1%	-54.2	-68.4%
Chile	14.6	-8.3	-56.8%	-14.2	-97.1%
South Africa	4.3	-3.5	-80.3%	-4.3	-100.0%
Mexico	0.2	-0.2	-100.0%	-0.2	-100.0%
Korea Rep	0.1	-0.1	-100.0%	-0.1	-100.0%
Ukraine	0.1	-0.1	-100.0%	-0.1	-100.0%

Note: Only countries with 2017 exports to China greater than \$50,000 are reported.

**Table A11: Impact on Brazil, Zero Growth from 2017**

Agricultural Product	No Subsidy	Subsidy=42%		Subsidy=59%	
	2020 & 21 Million US\$	Difference from 2020 Million US\$	Percent	Difference from 2021 Million US\$	Percent
Soybeans	20873.2	-99.4	-0.5%	-104.4	-0.5%
Poultry Meat & Prods.	873	-38.1	-4.4%	-82.9	-9.5%
Beef & Beef Products	870.4	-70	-8.0%	-140.9	-16.2%
Sugars & Sweeteners	347.9	-37.3	-10.7%	-78.3	-22.5%
Soybean Oil	267.9	-73.1	-27.3%	-136.1	-50.8%
Tobacco	263.8	-44.6	-16.9%	-74.8	-28.4%
Cotton	124	-42	-33.9%	-68.4	-55.2%
Forest Products	114.2	-31.7	-27.7%	-50.3	-44.1%
Pork & Pork Products	112.5	-42.5	-37.8%	-65	-57.8%
Fruit & Vegetable Juices	74.6	-24.3	-32.6%	-35.9	-48.2%
Vegetable Oils NESOI	38.1	-19.5	-51.3%	-36.1	-94.8%
Processed Fruit	26.2	-7.2	-27.4%	-12.6	-48.2%
Other Intermediate Products	22.1	-7	-31.9%	-11.7	-52.8%
Feeds & Fodders NESOI	14.7	-9.4	-63.6%	-12.7	-86.3%
Essential Oils	11.7	-9.5	-81.2%	-11.7	-100.0%
Coffee, Unroasted	10.9	-8.8	-80.6%	-10.4	-95.9%
Prepared Foods	10.7	-8.7	-81.4%	-10.7	-100.0%
Other Bulk Commodities	10.5	-10.5	-100.0%	-10.5	-100.0%
Fish Products	7.9	-1.8	-22.6%	-1.3	-16.7%
Meat Products NESOI	2.5	-2.5	-100.0%	-2.5	-100.0%
Coffee, Roasted and Extracts	1.4	-1.4	-100.0%	-1.4	-100.0%
Spices	1.4	-1.4	-100.0%	-1.4	-100.0%
Wine & Beer	0.8	-0.8	-100.0%	-0.8	-100.0%
Chocolate & Cocoa Products	0.3	-0.3	-100.0%	-0.3	-100.0%
Tree Nuts	0.2	-0.2	-100.0%	-0.2	-100.0%
Snack Foods NESOI	0.2	-0.2	-100.0%	-0.2	-100.0%
Nursery Products & Cut Flowers	0.2	-0.2	-100.0%	-0.2	-100.0%
Hides & Skins	0.1	-0.1	-100.0%	-0.1	-100.0%
Non-Alcoholic Bev.	0.1	-0.1	-100.0%	-0.1	-100.0%
Distilled Spirits	0.1	-0.1	-100.0%	-0.1	-100.0%
Dog & Cat Food	0.1	-0.1	-100.0%	-0.1	-100.0%
Dairy Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Fresh Fruit	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Processed Vegetables	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Planting Seeds	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Rubber & Allied Gums	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

Tea	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Eggs & Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Soybean meal	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

Note: All products that were exported from this country to China in 2017 are reported, with the value “< 0.1” indicating that exports or the drop in exports was less than \$50,000. When the percentage drop in export sales is -100.0%, then country exports became zero under the effective subsidy to the U.S.

**Table A12: Impact on Australia, Zero Growth from 2017**

Agricultural Product	No Subsidy 2020 & 2021 Million US\$	Subsidy=42%		Subsidy=59%	
		Difference from 2020		Difference from 2021	
		Million US\$	Percent	Million US\$	Percent
Other Intermediate Products	2,062.2	-46.2	-2.2%	-93.4	-4.5%
Coarse Grains (ex. corn)	1,391.0	-143.6	-10.3%	-228.8	-16.4%
Forest Products	749.9	-37	-4.9%	-82.9	-11.1%
Beef & Beef Products	672.7	-69.4	-10.3%	-138.6	-20.6%
Prepared Foods	661.1	-42	-6.4%	-71.7	-10.8%
Wine & Beer	577.4	-49.6	-8.6%	-95.7	-16.6%
Hides & Skins	491.2	-50.2	-10.2%	-94.5	-19.2%
Cotton	480.0	-63.4	-13.2%	-103.9	-21.6%
Wheat	420.6	-124.5	-29.6%	-206.4	-49.1%
Dairy Products	357.5	-43.4	-12.1%	-80.4	-22.5%
Meat Products NESOI	351.8	-39.2	-11.1%	-59.2	-16.8%
Fresh Fruit	229.4	-13.6	-5.9%	-28.7	-12.5%
Fish Products	127.3	-20.4	-16.0%	-36.3	-28.5%
Live Animals	122.4	-32.8	-26.8%	-44	-35.9%
Oilseeds NESOI	85.1	-21.7	-25.5%	-42	-49.4%
Hay	83.6	-52	-62.1%	-64.9	-77.7%
Sugars & Sweeteners	71.3	-18	-25.3%	-21.5	-30.2%
Tree Nuts	57.7	-15.1	-26.2%	-30.6	-53.0%
Vegetable Oils NESOI	51.2	-25.2	-49.2%	-36.4	-71.2%
Animal Fats	45.3	-20.7	-45.8%	-32.1	-70.9%
Rapeseed	25.8	-6.6	-25.7%	-16	-62.2%
Pulses	16.5	-12.2	-73.9%	-16.3	-99.0%
Snack Foods NESOI	10.3	-5.3	-52.0%	-7.8	-75.6%
Oilseed Meal/Cake (ex. soybean)	6	-5.8	-96.8%	-6	-100.0%
Chocolate & Cocoa Products	5.3	-3.5	-66.2%	-4.5	-85.8%
Processed Fruit	5.1	-5.1	-100.0%	-5.1	-100.0%
Feeds & Fodders NESOI	4.3	-4.3	-100.0%	-4.3	-100.0%
Fruit & Vegetable Juices	4.3	-4.2	-97.9%	-4.3	-99.1%
Essential Oils	3.8	-3.8	-100.0%	-3.8	-100.0%
Planting Seeds	2.8	-1.1	-40.6%	-2.1	-74.3%
Coffee, Roasted and Extracts	1.9	-1.9	-100.0%	-1.9	-100.0%
Condiments & Sauces	1.9	-1.9	-100.0%	-1.9	-100.0%
Dog & Cat Food	1.6	-1.6	-100.0%	-1.6	-100.0%
Non-Alcoholic Bev. (ex. juices, coffee, tea)	1.4	-1.4	-100.0%	-1.4	-100.0%
Distilled Spirits	1.2	-1.2	-100.0%	-1.2	-100.0%

Nursery Products & Cut Flowers	1.2	-1.2	-100.0%	-1.2	-100.0%
Spices	0.6	-0.6	-100.0%	-0.6	-100.0%
Processed Vegetables	0.3	-0.3	-100.0%	-0.3	-100.0%
Tea	0.3	-0.3	-100.0%	-0.3	-100.0%
Eggs & Products	0.1	-0.1	-100.0%	-0.1	-100.0%
Coffee, Unroasted	0.1	-0.1	-100.0%	-0.1	-100.0%
Rice	0.1	-0.1	-100.0%	-0.1	-100.0%
Pork & Pork Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Ethanol	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Other Bulk Commodities	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Fresh Vegetables	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

See notes to Table A11.

**Table A13: Impact on Thailand, Zero Growth from 2017**

Agricultural Product	No Subsidy	Subsidy=42%		Subsidy=59%	
	2020 & 2021 Million US\$	Difference from 2020 Million US\$	Percent	Difference from 2021 Million US\$	Percent
Rubber & Allied Gums	1881.5	-45.2	-2.4%	-102.3	-5.4%
Forest Products	1385.5	-22.7	-1.6%	-61.5	-4.4%
Processed Vegetables	1174.2	-38.5	-3.3%	-76.7	-6.5%
Fresh Fruit	1004.7	-24	-2.4%	-44.1	-4.4%
Other Intermediate Products	687.1	-48.8	-7.1%	-108.1	-15.7%
Rice	547.3	-34.6	-6.3%	-70.4	-12.9%
Processed Fruit	237.7	-28.8	-12.1%	-50.4	-21.2%
Prepared Foods	174.5	-28.9	-16.6%	-53.4	-30.6%
Sugars & Sweeteners	140.7	-40	-28.4%	-73.2	-52.0%
Fish Products	131.7	-24.4	-18.6%	-47.3	-35.9%
Tree Nuts	63	-23.7	-37.7%	-40.4	-64.1%
Non-Alcoholic Bev.	30.4	-14.4	-47.3%	-25.4	-83.7%
Dog & Cat Food	27.7	-20.6	-74.6%	-21.5	-77.6%
Snack Foods NESOI	24.8	-15.8	-63.6%	-21	-84.9%
Planting Seeds	20.3	-12.5	-61.5%	-20.2	-99.7%
Condiments & Sauces	17.4	-11.7	-67.3%	-15.5	-89.5%
Nursery Products & Cut Flowers	17.1	-3.5	-20.4%	-3.9	-22.8%
Feeds & Fodders NESOI	16.1	-16.1	-100.0%	-16.1	-100.0%
Other Bulk Commodities	15.6	-13.8	-88.5%	-14.2	-91.2%
Coffee, Roasted and Extracts	14.7	-5.3	-36.4%	-9.6	-65.4%
Vegetable Oils NESOI	7.8	-7.8	-100.0%	-7.8	-100.0%
Fruit & Vegetable Juices	7.8	-7.8	-99.9%	-7.8	-99.9%
Pulses	6	-5.8	-96.9%	-6	-100.0%
Palm Oil	4.8	-3.8	-79.8%	-4.1	-86.5%
Dairy Products	3.1	-3	-97.1%	-3.1	-100.0%
Chocolate & Cocoa Products	1.2	-1.2	-100.0%	-1.2	-100.0%
Essential Oils	1	-1	-100.0%	-1	-100.0%
Wine & Beer	0.7	-0.7	-100.0%	-0.7	-100.0%
Meat Products NESOI	0.5	-0.5	-100.0%	-0.5	-100.0%
Tea	0.5	-0.5	-100.0%	-0.5	-100.0%
Spices	0.5	-0.5	-100.0%	-0.5	-100.0%
Distillers Grains	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Pork & Pork Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Poultry Meat & Prods. (ex. eggs)	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Live Animals	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Oilseeds NESOI	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Distilled Spirits	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

Beef & Beef Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Animal Fats	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Eggs & Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Coffee, Unroasted	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Soybean meal	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Fresh Vegetables	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

See notes to Table A11.

**Table A14: Impact on Canada, Zero Growth from 2017**

Agricultural Product	No Subsidy	Subsidy=42%		Subsidy=59%	
	2020 & 2021 Million US\$	Million US\$	Percent	Million US\$	Percent
Rapeseed	2,035.10	-239.6	-11.8%	-320.1	-15.7%
Soybeans	886.3	2.7	0.3%	46.1	5.2%
Vegetable Oils NESOI	551.9	-28.8	-5.2%	-52.4	-9.5%
Pork & Pork Products	456.9	-57.7	-12.6%	-113.6	-24.9%
Fish Products	446.5	-32.9	-7.4%	-69.8	-15.6%
Pulses	372.5	-56	-15.0%	-98.1	-26.3%
Coarse Grains (ex. corn)	324.6	-71.8	-22.1%	-121.2	-37.3%
Oilseed Meal/Cake (ex. soybean)	289.1	-21.6	-7.5%	-49.3	-17.1%
Hides & Skins	222.9	-53.2	-23.9%	-106.9	-48.0%
Forest Products	167.3	-23.2	-13.9%	-56	-33.4%
Wheat	157.7	-74.5	-47.2%	-103.1	-65.4%
Oilseeds NESOI	122.5	-9.3	-7.6%	-16.5	-13.5%
Beef & Beef Products	79.3	-30.2	-38.1%	-54.2	-68.4%
Other Intermediate Products	38.9	-24.8	-63.9%	-33.4	-85.9%
Prepared Foods	32	-15.9	-49.7%	-30.4	-94.9%
Fresh Fruit	27	-13.4	-49.4%	-25	-92.5%
Tobacco	22.3	-1.6	-7.0%	-3	-13.4%
Meat Products NESOI	20.7	-18.1	-87.5%	-20.7	-100.0%
Planting Seeds	19.8	-6.8	-34.7%	-8.9	-45.2%
Dairy Products	19.5	-17.5	-89.5%	-19.3	-98.9%
Processed Fruit	18	-14.2	-78.8%	-17.8	-98.6%
Hay	16.6	-16.6	-100.0%	-16.6	-100.0%
Wine & Beer	15.4	-13.1	-85.3%	-15.4	-100.0%
Feeds & Fodders NESOI	8.3	-8.2	-98.3%	-8.3	-100.0%
Animal Fats	6.8	-6.3	-93.8%	-6.6	-98.0%
Dog & Cat Food	5.7	-1.9	-33.2%	-4.3	-76.1%
Live Animals	3.6	-3.6	-100.0%	-3.6	-100.0%
Processed Vegetables	2.7	-1.1	-42.1%	-1.4	-52.2%
Sugars & Sweeteners	2.3	-2.3	-100.0%	-2.3	-100.0%
Snack Foods NESOI	2	-2	-100.0%	-2	-100.0%
Cotton	1.4	-1.4	-100.0%	-1.4	-100.0%
Distillers Grains	1.2	-1.2	-100.0%	-1.2	-100.0%
Essential Oils	1	-1	-100.0%	-1	-100.0%
Fruit & Vegetable Juices	1	-1	-100.0%	-1	-100.0%
Distilled Spirits	0.9	-0.9	-100.0%	-0.9	-100.0%
Other Bulk Commodities	0.7	-0.7	-100.0%	-0.7	-100.0%
Chocolate & Cocoa Products	0.6	-0.6	-100.0%	-0.6	-100.0%

Corn	0.5	-0.4	-80.5%	-0.5	-100.0%
Condiments & Sauces	0.5	-0.5	-100.0%	-0.5	-100.0%
Non-Alcoholic Bev. (ex. juices, coffee, tea)	0.1	-0.1	-100.0%	-0.1	-100.0%
Coffee, Roasted and Extracts	0.1	-0.1	-100.0%	-0.1	-100.0%
Nursery Products & Cut Flowers	0.1	-0.1	-100.0%	-0.1	-100.0%
Tree Nuts	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Rubber & Allied Gums	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Tea	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Eggs & Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Coffee, Unroasted	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Rice	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Spices	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Soybean meal	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Fresh Vegetables	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

See notes to Table A11.

**Table A15: Impact on Malaysia, Zero Growth from 2017**

Agricultural Product	No Subsidy 2020 & 21	Subsidy=42%		Subsidy=59%	
	Million US\$	Million US\$	Percent	Million US\$	Percent
Rubber & Allied Gums	1,483.7	-45.9	-3.1%	-103.9	-7.0%
Palm Oil	1450.0	-74.5	-5.1%	-126.2	-8.7%
Forest Products	521.9	-20.6	-3.9%	-56	-10.7%
Vegetable Oils NESOI	154.7	-43.3	-28.0%	-71.2	-46.0%
Prepared Foods	122.6	-20.9	-17.1%	-41.8	-34.1%
Other Intermediate Products	113.7	-37	-32.6%	-71.6	-63.0%
Chocolate & Cocoa Products	93.0	-28	-30.1%	-44.2	-47.5%
Coffee, Roasted and Extracts	84.7	-25	-29.5%	-37	-43.7%
Snack Foods NESOI	65.6	-14.9	-22.8%	-30.9	-47.0%
Other Bulk Commodities	47.6	-24.9	-52.4%	-31.3	-65.8%
Meat Products NESOI	41.9	-29.5	-70.3%	-34.7	-82.9%
Processed Fruit	23.8	-14.8	-62.3%	-21	-88.4%
Fish Products	20.6	-17.5	-84.7%	-20	-97.1%
Non-Alcoholic Bev. (ex. juices, coffee, tea)	18.2	-11.2	-61.4%	-18.2	-99.9%
Oilseed Meal/Cake (ex. soybean)	17.8	-15.4	-86.7%	-17.8	-100.0%
Spices	13.8	-5.2	-37.5%	-10.1	-73.4%
Feeds & Fodders NESOI	12.3	-10.1	-81.9%	-12.3	-100.0%
Condiments & Sauces	8.8	-6.9	-78.0%	-8.8	-100.0%
Sugars & Sweeteners	5.9	-5.9	-100.0%	-5.9	-100.0%
Cotton	4.8	-4.8	-100.0%	-4.8	-100.0%
Tree Nuts	4.6	-4.6	-100.0%	-4.6	-100.0%
Wine & Beer	4.3	-4.3	-100.0%	-4.3	-100.0%
Fruit & Vegetable Juices	3.7	-1.5	-41.9%	-2.6	-70.2%
Biodiesel & Blends > B30	3.3	-3.3	-100.0%	-3.3	-100.0%
Processed Vegetables	3.3	-3.3	-100.0%	-3.3	-100.0%
Tea	2.6	-2.6	-100.0%	-2.6	-100.0%
Dairy Products	2.1	-2.1	-100.0%	-2.1	-100.0%
Cocoa Beans	1.8	-1.8	-100.0%	-1.8	-100.0%
Essential Oils	1.7	-1.7	-100.0%	-1.7	-100.0%
Fresh Fruit	1.1	-1.1	-100.0%	-1.1	-100.0%
Live Animals	1	-0.7	-65.1%	-1	-100.0%
Coarse Grains (ex. corn)	0.2	-0.2	-100.0%	-0.2	-100.0%
Distilled Spirits	0.2	-0.2	-100.0%	-0.2	-100.0%
Nursery Products & Cut Flowers	0.2	-0.2	-100.0%	-0.2	-100.0%
Soybean Oil	0.1	-0.1	-100.0%	-0.1	-100.0%
Hides & Skins	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

Pork & Pork Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Planting Seeds	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Oilseeds NESOI	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Pulses	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Beef & Beef Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Eggs & Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Dog & Cat Food	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Coffee, Unroasted	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Rice	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Soybean meal	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

See notes to Table A11.

**Table A16: Impact on Argentina, Zero Growth from 2017**

<b>Agricultural Product</b>	<b>No Subsidy 2020 &amp; 2021 Million US\$</b>	<b>Subsidy=42% Difference from 2020</b>		<b>Subsidy=59% Difference from 2021</b>	
		<b>Million US\$</b>	<b>Percent</b>	<b>Million US\$</b>	<b>Percent</b>
Soybeans	2644	-110	-4.2%	-121.5	-4.6%
Beef & Beef Products	369.9	-45.8	-12.4%	-60.6	-16.4%
Fish Products	150.7	-29.3	-19.5%	-52.1	-34.6%
Poultry Meat & Prods.	113.1	-13.6	-12.0%	-23.1	-20.4%
Tobacco	77	-4.8	-6.3%	-8.7	-11.3%
Other Intermediate Products	60.4	-21.5	-35.6%	-37.5	-62.1%
Vegetable Oils NESOI	56.9	-19.2	-33.8%	-34.6	-60.8%
Dairy Products	30.5	-19.6	-64.3%	-25.8	-84.7%
Wine & Beer	12.1	-11.1	-91.9%	-12.1	-100.0%
Feeds & Fodders NESOI	10.9	-10	-91.8%	-10.9	-100.0%
Planting Seeds	4.9	-2.2	-44.2%	-3.1	-63.3%
Hides & Skins	4.3	-4.1	-95.4%	-4.3	-100.0%
Fresh Fruit	3.2	-3.2	-100.0%	-3.2	-100.0%
Peanuts	3	-3	-100.0%	-3	-100.0%
Fruit & Vegetable Juices	2.7	-2.7	-100.0%	-2.7	-100.0%
Live Animals	2.1	-1.8	-87.5%	-2	-98.4%
Forest Products	1.9	-1.9	-100.0%	-1.9	-100.0%
Prepared Foods	0.6	-0.3	-55.7%	-0.6	-100.0%
Cotton	0.5	-0.5	-100.0%	-0.5	-100.0%
Essential Oils	0.5	-0.5	-100.0%	-0.5	-100.0%
Tea	0.4	-0.4	-100.0%	-0.4	-100.0%
Snack Foods NESOI	0.2	-0.2	-100.0%	-0.2	-100.0%
Sugars & Sweeteners	0.2	-0.2	-100.0%	-0.2	-100.0%
Nursery Products	0.2	-0.2	-100.0%	-0.2	-100.0%
Hay	0.1	-0.1	-100.0%	-0.1	-100.0%
Processed Fruit	0.1	-0.1	-100.0%	-0.1	-100.0%
Coarse Grains (ex. corn)	< 0.1	< 0.1	0.0%	< 0.1	0.0%
Pork & Pork Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Processed Vegetables	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Tree Nuts	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Meat Products NESOI	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Chocolate & Cocoa Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Oilseeds NESOI	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Distilled Spirits	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Animal Fats	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Other Bulk Commodities	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

See notes to Table A11.

**Table A17: Impact on Japan, Zero Growth from 2017**

<b>Agricultural Product</b>	<b>No Subsidy</b>	<b>Subsidy=42%</b>		<b>Subsidy=59%</b>	
	<b>2020 &amp; 2021</b>	<b>Difference from 2020</b>		<b>Difference from 2021</b>	
	<b>Million US\$</b>	<b>Million US\$</b>	<b>Percent</b>	<b>Million US\$</b>	<b>Percent</b>
Fish Products	107.5	-29	-27.0%	-58.4	-54.3%
Prepared Foods	103.2	-29.1	-28.2%	-38.2	-37.0%
Other Intermediate Products	62.8	-30.9	-49.2%	-41.7	-66.5%
Planting Seeds	54	-34.9	-64.6%	-48.1	-89.1%
Nursery Products & Cut Flowers	52.4	-15.9	-30.3%	-22.4	-42.7%
Snack Foods NESOI	47.6	-17	-35.6%	-34.4	-72.2%
Essential Oils	33.4	-20.5	-61.5%	-27.4	-82.1%
Forest Products	21.4	-10	-46.6%	-15.9	-74.1%
Wine & Beer	21.3	-11.2	-52.7%	-16.3	-76.8%
Condiments & Sauces	16.6	-14.7	-88.3%	-16.4	-98.3%
Coffee, Roasted and Extracts	14.9	-12.8	-85.8%	-14.9	-100.0%
Vegetable Oils NESOI	14.5	-9.7	-66.9%	-14.2	-98.1%
Distilled Spirits	11.7	-7.9	-67.9%	-11.7	-100.0%
Non-Alcoholic Bev. (ex. juices, coffee, tea)	8.8	-8.6	-97.5%	-8.6	-97.9%
Chocolate & Cocoa Products	7.2	-6.4	-88.2%	-7.2	-100.0%
Feeds & Fodders NESOI	5.4	-5.4	-100.0%	-5.4	-100.0%
Tree Nuts	5.1	-3.4	-66.6%	-3.8	-73.3%
Dairy Products	4.6	-3.8	-83.2%	-4.6	-100.0%
Processed Fruit	3.2	-3.2	-100.0%	-3.2	-100.0%
Fruit & Vegetable Juices	3	-3	-100.0%	-3	-100.0%
Fresh Fruit	2.7	-2.7	-100.0%	-2.7	-100.0%
Sugars & Sweeteners	2.5	-2.4	-95.7%	-2.4	-97.8%
Rubber & Allied Gums	2.3	-2.3	-100.0%	-2.3	-100.0%
Live Animals	2.2	-2.2	-100.0%	-2.2	-100.0%
Processed Vegetables	1.8	-1.8	-98.6%	-1.8	-98.6%
Tea	1.8	-1.8	-100.0%	-1.8	-100.0%
Hides & Skins	1.4	-1.4	-100.0%	-1.4	-100.0%
Rice	1.3	-1.2	-95.1%	-1.3	-100.0%
Oilseeds NESOI	1.1	-1.1	-100.0%	-1.1	-100.0%
Poultry Meat & Prods.	0.6	-0.6	-100.0%	-0.6	-100.0%
Spices	0.5	-0.4	-92.6%	-0.5	-100.0%
Ethanol	0.3	-0.3	-100.0%	-0.3	-100.0%
Dog & Cat Food	0.3	-0.3	-100.0%	-0.3	-100.0%
Coarse Grains (ex. corn)	0.2	-0.2	-100.0%	-0.2	-100.0%
Meat Products NESOI	0.2	-0.2	-100.0%	-0.2	-100.0%

Coffee, Unroasted	0.2	-0.2	-100.0%	-0.2	-100.0%
Biodiesel & Blends > B30	0.1	-0.1	-100.0%	-0.1	-100.0%
Animal Fats	0.1	-0.1	-100.0%	-0.1	-100.0%
Eggs & Products	0.1	-0.1	-100.0%	-0.1	-100.0%
Other Bulk Commodities	0.1	-0.1	-100.0%	-0.1	-100.0%
Soybeans	< 0.1	12.3	>100%	18.8	>100%
Cotton	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Pork & Pork Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Hay	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Tobacco	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Soybean Oil	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Peanuts	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Pulses	< 0.1	< 0.1	-12.2%	< 0.1	-16.2%
Beef & Beef Products	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Oilseed Meal/Cake (ex. soybean)	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Soybean meal	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%
Palm Oil	< 0.1	< 0.1	-100.0%	< 0.1	-100.0%

See notes to Table A11.