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Ukraine

Tree Nuts Annual

Walnuts Annual Report

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Report Highlights:

Ukraine is forecast to produce 113,000 metric tons (MT) of walnuts in marketing year (MY) 2017/18 – an increase of 4 percent over MY 2016/17 production levels, due to more favorable weather conditions in 2017. Industrial walnut production is slowly gaining ground in the country. Exports are expected to consume over half of Ukrainian walnut production. MY 2017/18 exports are forecast at 73,000 MT, 8 percent higher than MY2016/17. The European Union and the Middle East are expected to remain major external markets.

Commodities:

Walnuts, Inshell Basis

Production:

Walnut production areas in Ukraine are forecast to increase to 16,200 ha for MY2017/18. This forecast is based on reintroduction of state support for orchard and berry producers, which was adopted in 2017. Post forecasts an increase of production volume to 113 thousand MT for MY2017/18 -- 4 percent above MY 2016/17 production levels, due to more favorable weather conditions in 2017.

According to data by the State Statistics Service of Ukraine (SSSU), Ukrainian farmers produced around 108 thousand MT of walnuts in 2016. That number is accepted as Post's production estimate for MY2016/17.

The majority of all walnuts harvested in Ukraine are produced by small private family farms that harvest trees growing on their land plots or in their vicinity. This category of producers is not typically concerned with application of fertilizers and agrochemicals and is using manual labor for harvesting and shelling walnuts. Harvested walnuts are typically sold to intermediaries, who assemble batches designated for export. Since these producers are not actively investing in their plantations, the area farmed by this category has decreased from over 84 percent of total walnut production area in 2015 to 77 percent in 2016. Post predicts this downward trend will continue in the medium to long-term perspective.

Another reason for the decreasing share of walnut production by small family farms is the emergence of commercial production. Since 2009, Ukrainian farmers began developing walnut orchards for commercial purposes. The average size of these plantations ranges from 20 hectares (ha) up to 50 ha. Some regions, especially in central and southern Ukraine, require irrigation to secure expected yields, while orchards in the northern part of the country may not have as high yields as a result of cooler climates. Total area of commercially-grown walnut trees in 2016 reached up to 2,600 ha according to SSSU -- a 4-percent increase over 2015 area. This is relatively modest growth compared to previous periods and most likely was caused by zeroing out state support for orchard and berry producers in 2016.

This data confirms industry reports that farmers are investing in development of high-yield commercial orchards consisting of multiple walnut varieties, and implementing irrigation and application of fertilizers. According to industry sources, certain commercial growers have already planted up to 500-600 ha of walnut orchards. Initial investments required to establish an orchard range from \$1,200 to \$1,800 per ha.

Producers prefer Ukrainian origin seedlings, although due to the increase in demand and the inability of local seedling producers to meet higher demand, some new seed varieties are being imported from neighboring Moldova and Belarus. The Ukrainian State Registry of plant varieties (in <u>Ukrainian</u>) lists over 30 different varieties for walnuts, allowing commercial growers to pick varieties that would be commercially sustainable in their area.

Most of Ukraine's individual walnut producers do not treat trees for diseases. However, with more commercial walnut production coming online and taking over poorly managed and aging orchards, these newly established commercial producers are said to pay greater attention to production technologies (beyond irrigation) to increase growing efficiencies. For example, these growers are conducting research into ideal growing areas, investing in nurseries to improve genetic stocks, and applying fertilizers and pesticides to their orchards.

New walnut orchards are expected to start bearing fruit five to seven years after being planted. At the start of the production age, walnut tree yields are low; they increase gradually and will reach their prime anywhere between fifteen to twenty years. Average yields of the newly planted trees (upon maturation) are expected to be higher than that of the older stock, due to improved commercial varieties.

According to industry reports, commercial walnut production yields have increased as well as has the quality of the end product. The most advanced walnut producers have purchased the whole range of equipment allowing them to perform shelling and packing of their product. At the same time, sorting is predominantly done manually to ensure the quality and consistency of batches for the end product. Walnut production in Ukraine is still a labor intensive business for the most part with the majority of walnuts harvested by hand or rudimentary nut picking devices used by the previous generation of growers.

Another part of the business that is of interest to commercial growers is walnut wood, which is used for furniture manufacturing locally, as well as some exports. Other products related to walnut value-added production are treated leaves for medicinal use and walnut (green/young nut) preserves. In recent years, demand for walnut oil from primarily EU importers has surfaced, creating a niche market Ukrainian producers are pursuing. The domestic market in Ukraine has also generated some demand for walnut oil as a gourmet food and a key ingredient in the premium segment of natural cosmetic products.

Total walnut planted area in Ukraine stayed at the level 16,100 ha in 2016, which is comparable to 2015 area according to the SSSU data. This trend suggests that the influx of new commercial orchard plantings is overriding the reduction in production area caused by older orchards from the Soviet period being gradually chopped down. Similarly, yields from newly planted varieties managed with improved production technologies using irrigation, fertilizers, pest and disease control by commercial growers has offset the declines in production resulting from cuttings of old walnut orchards.

Consumption:

Walnut consumption is estimated to reach 40,500 MT in MY2016/17, around a 3-percent increase over MY 2015/16. This number is consistent with SSSU data pointing to stable production levels of bakery and confectionary products, as well as chocolate production in 2016. Generally speaking, a greater portion of processed foods and higher priced confectionary products use walnuts in their recipes, or to garnish cakes and baked goods for example. Many of these confectionary products are exported. Walnut consumption for MY2017/18 is forecast to remain at a level of 40,000 MT based on SSSU data showing minor changes in bakery, confectionary products and chocolate production for the first half of 2017 compared to the same period in 2016.

Trade:

Walnut exports are estimated to decrease to 67,500 MT for MY 2016/17, an 11-percent drop from MY2015/16 volume. This drop stems from decreased volumes of production in combination with stable domestic consumption.

Exports of walnuts are managed by private enterprises in most cases. An industry group, the Tree Nut Association, was established several years ago to assist walnut market entrants. The Association serves as a consultant to growers in various stages of the business cycle and has had some success in raising production standards in orchards as well as targeting export markets around the world.

Ukraine's walnut exports are usually concentrated on the October through May period. In May, walnuts from the southern hemisphere become available on the world market thus curbing demand and sales of Ukrainian product (particularly to European markets).

The vast majority of Ukrainian walnuts are exported shelled. Ukraine exported around 17,600 MT of shelled walnuts from September 2016 through April 2017, a 22-percent decrease against the same months of the preceding year. Out of this volume around 9,500 MT were supplied to Middle Eastern markets and over 5,700 MT to the EU. These regions retain their status as major export destinations. The Middle East's largest importers of shelled walnuts were: Iraq, totaling over 3,600 MT; Azerbaijan – over 1,700 MT; and Iran – over 1,300 MT during the September 2016 – April 2017 period. The major consumer within the EU was France, importing over 1,500 MT during the same period. It should be noted that Ukraine gradually returns to its traditional markets in neighboring countries forming the Eurasian Economic Union. Over 1,600 MT of walnuts were exported to Belarus during the September 2016 – April 2017 period. Post believes that Belarus is not the final destination and the majority of that volume is likely being re-exported to Russia.

In-shell exports of walnuts reached almost 6,400 MT from September 2016 through April 2017, a 15-percent decrease against the same months of the preceding year. The two largest importers were: Turkey, amounting over 3,700 MT; and Iraq – over 1,300 MT during the same period.

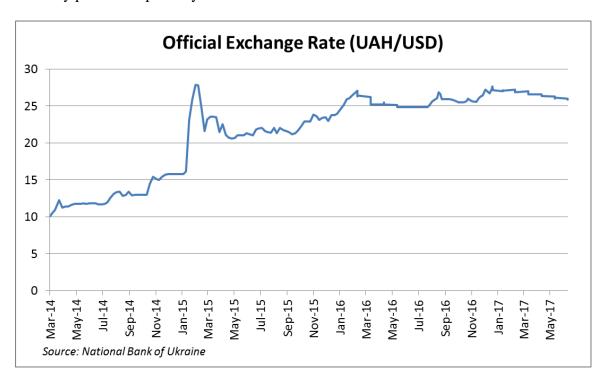
According to industry experts, the average conversion rate between shelled to in-shell walnuts in Ukraine ranges between 33-38 percent. It is expected that this ratio will improve in the future with greater commercial production development. Conversion rates for the recently established walnut orchards average at about 55 percent, though the share of these plantations is still relatively small, so they do not yet have much impact on the national average.

For MY2017/18, Ukraine is forecast to export 73,000 MT of walnuts, around an 8-percent increase compared to MY2016/17. This growth will likely occur primarily due to an expected increase in volumes of production, while consumption stays essentially unchanged.

Ukraine has not imported any substantial volumes of walnuts due to the strong position of national producers and production volumes exceeding domestic consumption. Taking into account that production volumes tend to be stable and commercial growers are increasing their role in the market, this trend is not likely to cease in the future.

Although almonds, hazelnuts, pistachios, and Brazilian nuts (in the order of highest to lowest based on consumer popularity) are widely available in local retail outlets, they are usually more expensive than walnuts. Difficult economic conditions recently experienced by Ukrainian consumers contributed toward a shift away from imported nuts in favor of locally produced walnuts and hazelnuts.

Consumer behaviors are closely tied with the general economic situation. Ukraine's political and economic crisis, which started at the end of 2013 and lasted through the end of 2016, led to a significant devaluation of the local currency (Hryvna – UAH) and a number of trade-related problems associated the devaluation's inflationary effect (for more details see Official Exchange Rate graph below). Since early 2016, the exchange rate has fluctuated within relatively narrow margins as the result of tight monetary policies in place by the National Bank of Ukraine.



This devaluation of the currency resulted in a decrease of volumes of imported nuts to Ukraine for MY2014/15 and that trend continued into MY2015/16. Currently we see a return to growth trajectory at the beginning of MY2016/17 (see table below for details) as the general economic climate recovers in the country and stabilization of local currency is decreasing transaction costs for importers.

Select Imports of Tree Nuts in Ukraine													
	Quantity												
HS Code	Description	Unit	MY 2013/14 (Sep 13-Aug 14)	MY 2014/15 (Sep 14-Aug 15)	MY 2015/16 (Sep 15-Aug 16)	8 months MY 2016/17 (Sep 16-Apr 17)	MY 2016/17 to MY 2015/16						
080211	Almanda Frash Or Dried In Shall	Т	1,205	393	385	460	17.05						
000211	Almonds, Fresh Or Dried, In Shell	USD	8,185,772	3,359,977	3,055,929	2,811,128	-16.33						
080212	Almondo Fronk Or Dried Challed	T	538	459	138	358	-22.00						
000212	Almonds, Fresh Or Dried, Shelled	USD	4,195,957	4,264,241	1,300,387	2,141,521	-49.78						
	Hazelnuts Or Filberts	Т	2,423	762	763	563	-26.12						
080222	(Corylus Spp.) Fresh Or Dried, Shelled	USD	14,435,320	7,504,241	6,570,366	3,640,093	-51.49						
080250	Pistachios, Fresh Or Dried, Whether	Т	189	0	0	0	∞						
000250	Or Not Shelled	USD	1,505,757	0	0	0	∞						

Cource. World Trade Title

Stocks:

Walnut stocks are difficult to calculate because large quantities are still produced by private family farms that do not report their stock figures and the majority of these tree nuts are stored by private producers. Unless these products are exported, there is no statistical trace of stocks, or production for that matter. As commercial walnut production develops in Ukraine, growers understand that official national data must become available in the marketplace.

Policy:

Based on Post's research, Ukraine does not have regulations in place that govern walnut production.

The Government of Ukraine's decision to reintroduce state support for fruit orchards, hops, and grape producers, totaling 75 million UAH (approximately \$2.9 million) into the State Budget for 2017, will likely stimulate further growth by commercial producers. It should be noted that in accordance with state regulations governing distribution of funds under this program (in Ukrainian) it is intended to support farmers only through compensation of part of their production costs, including purchases of planting stocks, irrigation, infrastructure, etc. None of these state supports fund export promotion efforts.

In 2014, the European Union enacted Regulation # 374/2014 (Regulation) unilaterally reducing or eliminating EU customs duties on goods originating in Ukraine. In accordance with the Regulation, EU import duties for walnuts originating in Ukraine were decreased to zero from the previously existing rate of 5.1 percent for shelled walnuts (HS Code 080230) and 4 percent for in-shell walnuts (HS Code 080231). This measure slightly increased the competitiveness of Ukrainian walnuts within the EU market, but has not led to significant increases in exports as Ukraine was already exporting significant quantities to the EU.

Marketing:

Ukrainians consume walnuts in their everyday diets. It is a common ingredient in dessert-type dishes and in local cuisine. Walnuts are often consumed raw as well as slightly roasted. Walnut oil is becoming a niche product. Cold-pressed oil is highly-valued for its nutritional purposes. Industrial walnut oil production has been on the rise in Ukraine in recent years.

Walnuts are often sold in bulk in farmers' markets in Ukraine (both shelled and in-shell). Local food stores prefer to carry pre-packaged walnuts. However, in this case, the price of walnuts is only slightly lower than that of the almonds or cashews that are often thought of by Ukrainian consumers as premium-quality nuts. Despite this similarity of price for packaged walnuts, consumers view walnuts as lower-priced partly because many Ukrainians have walnut trees in their back yards or at summer homes which are grown by relatives or friends and can provide them with sufficient supplies for their family's annual uses. Thus, local consumers are not keen on purchasing packaged walnuts (relative to other tree nuts, where demand for packaged nuts is greater) in retail outlets at prices comparable to imported tree nuts. Ukrainian consumers do purchase almonds and other imported tree nuts on occasion, but the locally-grown walnuts and hazelnuts are the 'go to' nuts they prefer when it comes to day-to-day food choices.

Another market segment of walnut buyers in Ukraine is the confectionary industry. Producers of chocolates, sweets, desserts, bakery products and snacks are the most reliable users of walnuts in the local market. More research needs to be conducted to determine the specifics and trends of this market segment.

Production, Supply and Demand Data Statistics:

Post's export estimate is 10 percent lower than USDA's official data for MY2016/17, based on a lower production estimate as well as relatively stable domestic consumption.

Post's domestic consumption estimate is around 17 percent higher than USDA's official data for MY2016/17, based on SSSU data that points to stable production levels of domestic bakery and confectionary products and chocolate in 2016 compared to 2015.

For the purpose of this report, PS&D tables are calculated on the basis of in-shell weight by multiplying the weight of shelled walnuts (HS Code: 080232) by 2.34.

Walnuts, Inshell Basis	2015/	2016	2016/	2017	2017/2018			
Market Begin Year	Sep 2	2015	Sep :	2016	Sep 2017			
Ukraine	USDA Official	New Post	USDA Official	New Post	USDA Official	New Post		
Area Planted	0	16200	0	16100	0	16200		
Area Harvested	0	16200	0	16100	0	16200		
Bearing Trees	0	13500	0	13200	0	13300		
Non-Bearing Trees	0	2700	0	2900	0	2900		
Total Trees	0	16200	0	16100	0	16200		
Beginning Stocks	1500	1500	1400	1563	0	1557		
Production	115080	115080	110000	107990	0	113000		
Imports	0	54	0	4	0	10		
Total Supply	116580	116634	111400	109557	0	114567		
Exports	75800	75771	75000	67500	0	73000		
Domestic Consumption	39380	39300	34700	40500	0	40000		
Ending Stocks	1400	1563	1700	1557	0	1567		
Total Distribution	116580	116634	111400	109557	0	114567		
(HA) ,(1000 TREES) ,(M	Γ)							

Author Defined:

Walnut (In Shell) Exports from Ukraine by Destination, MY, MT (HS Code 080231)

Origin	MY 20 (Sep 13-	-	MY 20 (Sep 14-	-	MY 20 (Sep 15-	-	% Change MY 2015/16 to
	Quantity	% Share	Quantity	% Share	Quantity	% Share	MY 2014/15
World	7,926.0	100.00	5,640.0	100.00	10,272.0	100.00	82.14
Middle East	5,553.0	70.06	4,298.0	76.22	8,985.0	87.47	109.03
South Asia	0.0	0.00	96.0	1.70	277.0	2.69	188.18
EU-28	1,273.0	16.06	1,203.0	21.32	258.0	2.51	- 78.55
Africa	66.0	0.83	0.0	0.00	116.0	1.13	0.00
East & Southeast Asia	918.0	11.58	0.0	0.00	92.0	0.89	0.00
Eurasian Economic Union	76.0	0.96	22.0	0.38	23.0	0.22	7.05
Turkey	1,349.0	17.03	2,703.0	47.93	6,368.0	61.99	135.59
Iraq	3,458.0	43.63	1,254.0	22.23	2,058.0	20.03	64.09
Turkmenistan	0.0	0.00	0.0	0.00	273.0	2.65	0.00
Romania	748.0	9.44	780.0	13.83	207.0	2.02	- 73.46
Azerbaijan	256.0	3.23	143.0	2.54	198.0	1.93	38.17
Pakistan	0.0	0.00	0.0	0.00	162.0	1.57	0.00
United Arab Emirates	0.0	0.00	0.0	0.00	158.0	1.54	0.00
Moldova	0.0	0.00	0.0	0.00	138.0	1.34	0.00
Lebanon	89.0	1.13	22.0	0.39	115.0	1.11	422.23
Algeria	0.0	0.00	0.0	0.00	100.0	0.97	0.00
India	0.0	0.00	96.0	1.70	92.0	0.90	- 4.11
Iran	356.0	4.49	131.0	2.32	45.0	0.44	- 65.57
Vietnam	601.0	7.58	0.0	0.00	45.0	0.43	0.00
Albania	44.0	0.56	21.0	0.37	44.0	0.43	110.53
Thailand	0.0	0.00	0.0	0.00	26.0	0.25	0.00
Myanmar	0.0	0.00	0.0	0.00	24.0	0.23	0.00
Belarus	0.0	0.00	0.0	0.00	23.0	0.22	0.00
Afghanistan	0.0	0.00	0.0	0.00	23.0	0.22	0.00
Bosnia & Herzegovina	0.0	0.00	22.0	0.39	22.0	0.21	0.00
Georgia	0.0	0.00	0.0	0.00	22.0	0.21	0.00
Syria	0.0	0.00	0.0	0.00	22.0	0.21	0.00
Uzbekistan	0.0	0.00	0.0	0.00	22.0	0.21	0.00
China	277.0	3.50	0.0	0.00	21.0	0.20	0.00
Italy	0.0	0.00	0.0	0.00	19.0	0.18	0.00
Morocco	22.0	0.28	0.0	0.00	16.0	0.16	0.00
Lithuania	22.0	0.27	0.0	0.00	15.0	0.15	0.00
Cyprus	0.0	0.00	0.0	0.00	14.0	0.14	0.00
Greece	0.0	0.00	0.0	0.00	2.0	0.02	0.00
Venezuela	18.0	0.23	0.0	0.00	0.0	0.00	0.00
Bulgaria	88.0	1.11	383.0	6.78	0.0	0.00	- 100.00
Czech Republic	20.0	0.25	0.0	0.00	0.0	0.00	0.00
Egypt	22.0	0.28	0.0	0.00	0.0	0.00	0.00
France	374.0	4.72	0.0	0.00	0.0	0.00	0.00
Armenia	22.0	0.28	22.0	0.38	0.0	0.00	- 100.00
Portugal	21.0	0.26	0.0	0.00	0.0	0.00	0.00
Russia	54.0	0.68	0.0	0.00	0.0	0.00	0.00
Saudi Arabia	22.0	0.28	0.0	0.00	0.0	0.00	0.00
Laos	40.0	0.50	0.0	0.00	0.0	0.00	0.00
Libya	22.0	0.28	0.0	0.00	0.0	0.00	0.00
Other	0.0	0.0	64.0	0.0	1.0	0.0	-98.4

Walnut (In Shell) Exports from Ukraine by Month and Destination, MT (HS 080231)

Origin	Subtotal Sep 2015-Apr 2016	May 16	Jun 16	Jul 16	Aug 16	Subtotal MY 2015/16	Sep 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	Subtotal Sep 2016-Apr 2017	% Share Sep 2016-Apr 2017 to MY2015/16	% Change Sep 2016 - April 2017 to Sep 2015 - April 2016
World	7,494.0	1,443.0	705.0	340.0	290.0	10,272.0	125.0	1,234.0	3,464.0	915.0	165.0	250.0	117.0	106.0	6,376.0	62.1	85.1
Middle East	6,517.0	1,362.0	614.0	248.0	244.0	8,985.0	67.0	1,159.0	3,259.0	735.0	96.0	201.0	86.0	83.0	5,686.0	63.3	87.2
South Asia	25.0	45.0	69.0	92.0	46.0	277.0	58.0	25.0	25.0	25.0	47.0	26.0	11.0	23.0	240.0	86.6	960.0
Africa	100.0	16.0	0.0	0.0	0.0	116.0	0.0	0.0	5.0	0.0	0.0	3.0	0.0	0.0	8.0	6.9	8.0
East & Southeast Asia	71.0	21.0	0.0	0.0	0.0	92.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	23.9	31.0
EU-28	258.0	0.0	0.0	0.0	0.0	258.0	0.0	6.0	88.0	68.0	0.0	0.0	0.0	0.0	162.0	62.8	62.8
Eurasian Economic Union	23.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	21.0	91.3	91.3
Iraq	1,503.0	286.0	156.0	67.0	46.0	2,058.0	23.0	333.0	625.0	200.0	30.0	44.0	23.0	44.0	1,322.0	64.2	88.0
Turkey	4,589.0	1,076.0	458.0	135.0	109.0	6,367.0	44.0	598.0	2,429.0	445.0	22.0	90.0	63.0	39.0	3,730.0	58.6	81.3
India	0.0	0.0	0.0	92.0	0.0	92.0	58.0	25.0	0.0	25.0	0.0	26.0	11.0	23.0	168.0	182.6	∞
Iran	45.0	0.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turkmenistan	273.0	0.0	0.0	0.0	0.0	273.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Arab Emirates	23.0	0.0	0.0	46.0	89.0	158.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
United Kingdom	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	9.0	∞	∞
Uzbekistan	22.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	22.0	100.0	100.0
Vietnam	45.0	0.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Afghanistan	0.0	0.0	23.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞
Albania	44.0	0.0	0.0	0.0	0.0	44.0	0.0	22.0	66.0	44.0	0.0	20.0	0.0	0.0	152.0	345.5	345.5
Algeria	100.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	198.0	0.0	0.0	0.0	0.0	198.0	0.0	228.0	185.0	67.0	44.0	67.0	0.0	0.0	591.0	298.5	298.5
Belarus	23.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	21.0	91.3	91.3
Bosnia & Herzegovina	0.0	0.0	22.0	0.0	0.0	22.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	22.0	100.0	∞
China	0.0	21.0	0.0	0.0	0.0	21.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	104.8	∞
Cyprus	14.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	6.0	42.9	42.9
France	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	22.0	∞	∞
Georgia	22.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	90.9	90.9
Greece	2.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	100.0	100.0
Italy	19.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0	46.0	6.0	0.0	0.0	0.0	0.0	52.0	273.7	273.7
Lebanon	115.0	0.0	0.0	0.0	0.0	115.0	0.0	0.0	0.0	23.0	0.0	0.0	0.0	0.0	23.0	20.0	20.0
Lithuania	15.0	0.0	0.0	0.0	0.0	15.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	20.0	20.0
Macedonia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0	21.0	0.0	0.0	0.0	0.0	42.0	8	∞
Moldova	138.0	0.0	0.0	0.0	0.0	138.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Morocco	0.0	16.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞
Myanmar	24.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Netherlands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	- 8	∞
Pakistan	25.0	45.0	46.0	0.0	46.0	162.0	0.0	0.0	25.0	0.0	47.0	0.0	0.0	0.0	72.0	44.4	288.0
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	22.0	∞	∞
Romania	207.0	0.0	0.0	0.0	0.0	207.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slovenia	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Spain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	20.0	0.0	0.0	0.0	0.0	26.0	∞	∞
Syria	22.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	26.0	0.0	0.0	0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tunisia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	3.0	0.0	0.0	8.0	∞	∞

Walnut (Shelled) Exports from Ukraine by Destination, MY, MT (HS Code 080232)

Origin	MY 20 (Sep 13-		MY 20 (Sep 14-		MY 20 (Sep 15-		% Change MY 2015/16 to
	Quantity	% Share	Quantity	% Share	Quantity	% Share	MY 2014/15
World	28,761.0	100.00	23,061.0	100.00	27,991.0	100.00	21.38
Middle East	13,530.0	47.04	11,826.0	51.28	18,840.0	67.31	59.32
EU-28	7,728.0	26.87	8,410.0	36.47	6,545.0	23.38	- 22.18
East & Southeast Asia	5,872.0	20.42	319.0	1.38	642.0	2.30	101.49
Eurasian Economic Union	412.0	1.43	149.0	0.64	415.0	1.48	179.39
Africa	429.0	1.49	459.0	1.99	277.0	0.99	- 39.59
South Asia	0.0	0.00	0.0	0.00	66.0	0.24	0.00
Iran	5,073.0	17.64	3,244.0	14.07	6,591.0	23.55	103.19
Iraq	3,248.0	11.29	3,239.0	14.04	5,655.0	20.20	74.60
Turkey	1,658.0	5.76	878.0	3.81	2,135.0	7.63	143.11
Azerbaijan	611.0	2.13	1,674.0	7.26	1,685.0	6.02	0.65
France	2,040.0	7.09	1,974.0	8.56	1,586.0	5.67	- 19.66
Lebanon	1,243.0	4.32	1,166.0	5.05	1,391.0	4.97	19.39
Greece	551.0	1.91	1,041.0	4.51	1,320.0	4.72	26.84
Moldova	703.0	2.44	1,316.0	5.71	686.0	2.45	- 47.86
Romania	2,022.0	7.03	1,330.0	5.77	565.0	2.02	- 57.49
Bulgaria	144.0	0.50	516.0	2.24	493.0	1.76	- 4.31
Georgia	0.0	0.00	356.0	1.54	450.0	1.61	26.42
Hungary	1,317.0	4.58	1,438.0	6.24	419.0	1.50	- 70.86
Syria	783.0	2.72	419.0	1.82	402.0	1.44	- 4.05
Belarus	87.0	0.30	64.0	0.28	350.0	1.25	451.56
China	219.0	0.76	0.0	0.00	309.0	1.10	0.00
Slovakia	100.0	0.75	105.0	0.46	288.0	1.03	174.56
Jordan	234.0	0.81	457.0	1.98	275.0	0.98	- 39.88
Italy	0.0	0.00	225.0	0.98	273.0	0.98	21.54
Austria	119.0	0.41	228.0	0.99	237.0	0.85	4.24
Vietnam	4,115.0	14.31	220.0	0.95	233.0	0.83	6.15
Lithuania	211.0	0.73	170.0	0.74	204.0	0.83	19.77
Spain	261.0	0.73	407.0	1.77	203.0	0.73	- 50.09
Netherlands	372.0	1.29	597.0	2.59	199.0	0.73	
Turkmenistan	0.0	0.00	0.0	0.00	196.0	0.71	- 66.73 0.00
	243.0						
Germany		0.85	257.0	1.11	189.0	0.68	- 26.39
United Arab Emirates	355.0 52.0	1.23	89.0	0.39	172.0	0.62	94.18
Bosnia & Herzegovina		0.18	430.0	1.86	167.0		- 61.21
Algeria	218.0	0.76	223.0	0.96	159.0	0.57 0.48	- 28.62 ∞
United Kingdom	0.0	0.00	30.0	0.00	134.0 102.0	0.48	237.68
Slovenia Croatia	0.0	0.00	0.0	0.00	98.0	0.35	0.00
Thailand	249.0	0.87	99.0	0.43	76.0	0.33	- 23.67
Kazakhstan	21.0	0.07	0.0	0.00	65.0	0.23	0.00
Belgium	13.0	0.04	10.0	0.04	62.0	0.22	523.20
Libya	43.0	0.15	0.0	0.00	60.0	0.21	0.00
Czech Republic	197.0	0.69	0.0	0.00	53.0	0.19	0.00
Pakistan	0.0	0.00	0.0	0.00	44.0	0.16	0.00
Portugal	44.0	0.15	0.0	0.00	44.0	0.16	0.00
Montenegro	0.0	0.00	20.0	0.09	44.0	0.16	120.00
Albania	0.0	0.00	44.0	0.19	43.0	0.15	- 2.27
Egypt	68.0	0.24	198.0	0.86	42.0	0.15	- 79.04
Saudi Arabia	201.0	0.70	177.0	0.77	34.0	0.12	- 80.78
Poland	38.0	0.13	39.0	0.17	30.0	0.11	- 24.86
Kuwait	62.0	0.22	63.0	0.27	29.0	0.10	- 54.16
Cyprus	40.0	0.14	0.0	0.00	26.0	0.09	∞
Laos	63.0	0.22	0.0	0.00	25.0	0.09	0.00
Tunisia	88.0	0.31	38.0	0.16	11.0	0.04	- 71.66
Hong Kong	1,226.0	4.26	0.0	0.00	0.0	0.00	0.00
Russia	279.0	0.97	20.0	0.09	0.0	0.00	- 100.00
Other	152.00	0.01	263.00	0.01	139.00	0.00	-47.15

Walnut (Shelled) Exports from Ukraine by Month and Destination, MT (HS 080232)

Origin	Subtotal Sep 2015-Apr 2016	May 16	Jun 16	Jul 16	Aug 16	Subtotal MY 2015/16	Sep 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	Subtotal Sep 2016-Apr 2017	% Share Sep 2016-Apr 2017 to	% Change Sep 2016 - April 2017 to Sep 2015 -
																MY2015/16	April 2016
World	22,493.0	2,309.0	1,902.0	827.0	462.0	27,993.0	217.0	1,111.0	3,753.0	3,863.0	1,265.0	2,559.0	3,117.0	1,719.0	17,604.0	62.9	78.3
Middle East	15,303.0	1,569.0	1,120.0	508.0	341.0	18,841.0	181.0	954.0	2,356.0	2,133.0	655.0	1,345.0	1,128.0	768.0	9,520.0	50.5	62.2
EU-28	5,254.0	475.0	497.0	219.0	100.0	6,545.0	11.0	141.0	1,168.0	1,384.0	545.0	1,031.0	924.0	505.0	5,709.0	87.2	108.7
Eurasian Economic Union Africa	313.0 120.0	93.0 39.0	3.0 70.0	7.0 48.0	0.0	416.0 277.0	5.0	6.0	53.0 21.0	135.0 22.0	29.0 14.0	88.0 33.0	1,027.0 44.0	356.0 48.0	1,699.0 182.0	408.4 65.7	542.8 151.7
East & Southeast Asia	507.0	110.0	25.0	0.0	0.0	642.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Asia	66.0	0.0	0.0	0.0	0.0	66.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	7.6	7.6
Belarus	249.0	93.0	3.0	7.0	0.0	352.0	5.0	6.0	53.0	135.0	29.0	88.0	987.0	336.0	1,639.0	465.6	658.2
Iraq	4,528.0	533.0	303.0	180.0	111.0	5,655.0	93.0	379.0	902.0	787.0	186.0	537.0	423.0	310.0	3,617.0	64.0	79.9
France	1,188.0	176.0	143.0	59.0	22.0	1,588.0	0.0	0.0	139.0	354.0	177.0	356.0	256.0	275.0	1,557.0	98.0	131.1
Azerbaijan	1,422.0	66.0	131.0	43.0	23.0	1,685.0	0.0	144.0	222.0	433.0	151.0	373.0	291.0	154.0	1,768.0	104.9	124.3
Georgia	300.0	20.0	54.0	20.0	56.0	450.0	0.0	61.0	134.0	200.0	73.0	47.0	99.0	97.0	711.0	158.0	237.0
Lebanon	1,128.0	131.0 622.0	88.0 223.0	44.0 45.0	0.0 42.0	1,391.0	0.0	21.0	303.0	285.0 153.0	71.0 87.0	177.0	65.0	67.0	989.0 1,302.0	71.1	87.7 23.0
Iran	5,660.0 1,219.0	40.0	50.0	0.0	10.0	6,592.0 1,319.0	0.0	201.0 60.0	532.0 460.0	337.0	60.0	199.0 101.0	65.0 151.0	65.0 58.0	1,302.0	19.8 93.0	100.7
Greece Turkey	1,387.0	152.0	308.0	176.0	110.0	2,133.0	88.0	148.0	219.0	102.0	66.0	101.0	87.0	51.0	773.0	36.2	55.7
Algeria	41.0	0.0	70.0	48.0	0.0	159.0	0.0	0.0	0.0	22.0	0.0	25.0	22.0	48.0	117.0	73.6	285.4
Bosnia & Herzegovina	126.0	0.0	20.0	0.0	21.0	167.0	0.0	0.0	40.0	32.0	0.0	0.0	7.0	42.0	121.0	72.5	96.0
Hungary	356.0	0.0	21.0	0.0	42.0	419.0	0.0	0.0	84.0	72.0	42.0	63.0	104.0	42.0	407.0	97.1	114.3
Italy	223.0	2.0	29.0	20.0	0.0	274.0	0.0	60.0	141.0	109.0	50.0	107.0	29.0	30.0	526.0	192.0	235.9
Saudi Arabia	22.0	0.0	12.0	0.0	0.0	34.0	0.0	0.0	22.0	23.0	0.0	0.0	0.0	25.0	70.0	205.9	318.2
Slovakia	267.0	0.0	21.0	0.0	0.0	288.0	0.0	0.0	20.0	83.0	0.0	62.0	40.0	21.0	226.0	78.5	84.6
Germany	107.0	72.0	7.0	0.0	5.0	191.0	0.0	0.0	21.0	10.0	0.0	20.0	0.0	21.0	72.0	37.7	67.3
Kyrgyzstan	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	20.0	20.0	100.0	∞ ∞
Netherlands Lithuania	145.0 142.0	13.0 20.0	0.0	21.0 41.0	0.0	199.0 203.0	0.0 10.0	0.0	39.0 31.0	120.0 62.0	80.0 31.0	40.0 40.0	71.0 59.0	20.0	370.0 253.0	185.9 124.6	255.2 178.2
	238.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	20.0	61.0	62.0	66.0	45.0	10.0	264.0	110.9	110.9
Austria Czech Republic	39.0	0.0	0.0	13.0	1.0	53.0	1.0	1.0	25.0	0.0	0.0	0.0	9.0	9.0	45.0	84.9	110.9
Egypt	19.0	22.0	0.0	0.0	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulgaria	341.0	42.0	88.0	22.0	0.0	493.0	0.0	0.0	42.0	68.0	22.0	62.0	21.0	0.0	215.0	43.6	63.0
China	245.0	64.0	0.0	0.0	0.0	309.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Croatia	72.0	0.0	23.0	0.0	4.0	99.0	0.0	20.0	53.0	5.0	0.0	5.0	10.0	0.0	93.0	93.9	129.2
Cyprus	26.0	0.0	0.0	0.0	0.0	26.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	14.0	53.8	53.8
Belgium	22.0	40.0	0.0	0.0	0.0	62.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	20.0	32.3	90.9
Belize	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞	∞
Armenia Australia	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0	0.0	0.0
Afghanistan	22.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Albania	44.0	0.0	0.0	0.0	0.0	44.0	0.0	0.0	21.0	0.0	0.0	20.0	0.0	0.0	41.0	93.2	93.2
Macedonia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	40.0		∞
Malta	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		∞
Marshall Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	~	∞
Moldova	497.0	0.0	168.0	21.0	0.0	686.0	0.0	0.0	0.0	40.0	0.0	21.0	23.0	0.0	84.0	12.2	16.9
Montenegro	0.0	23.0	0.0	21.0	0.0	44.0	17.0	11.0	44.0	66.0	0.0	0.0	4.0	0.0	142.0	322.7	∞
Morocco	0.0	6.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞
Myanmar Laos	25.0 25.0	0.0	0.0	0.0	0.0	25.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Latvia	19.0	0.0	0.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
India	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	∞	∞
Jordan	252.0	23.0	0.0	0.0	0.0	275.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kazakhstan	65.0	0.0	0.0	0.0	0.0	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kuwait	29.0	0.0	0.0	0.0	0.0	29.0	0.0	0.0	22.0	23.0	0.0	0.0	23.0	0.0	68.0	234.5	234.5
Pakistan	44.0	0.0	0.0	0.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Poland	0.0	30.0	0.0	0.0	0.0	30.0	0.0	0.0	20.0	0.0	0.0	10.0	59.0	0.0	89.0	296.7	~
Portugal	44.0	0.0	0.0	0.0	0.0	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Qatar	22.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Romania	493.0	21.0 0.0	20.0	32.0 0.0	0.0	566.0	0.0	0.0	0.0	0.0	0.0	37.0 0.0	21.0	0.0	58.0	10.2	11.8
Russia Serbia	22.0	0.0	0.0	3.0	0.0	0.0 25.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0	0.0	31.0	124.0	140.9
Liberia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	22.0	124.0	140.9
Libya	60.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	14.0	23.3	23.3
Slovenia	84.0	1.0	0.0	0.0	17.0	102.0	0.0	0.0	32.0	13.0	0.0	22.0	0.0	0.0	67.0	65.7	79.8
Spain	172.0	0.0	21.0	11.0	0.0	204.0	0.0	0.0	29.0	30.0	0.0	19.0	0.0	0.0	78.0	38.2	45.3
Sweden	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	8.0	~	∞
Syria	380.0	21.0	0.0	0.0	0.0	401.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Thailand	76.0	0.0	0.0	0.0	0.0	76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tunisia	0.0	11.0	0.0	0.0	0.0	11.0	0.0	0.0	21.0	0.0	0.0	8.0	0.0	0.0	29.0	263.6	∞
Turkmenistan	196.0	0.0	0.0	0.0	0.0	196.0	0.0	0.0	22.0	0.0	22.0	22.0	0.0	0.0	66.0	33.7	33.7
United Arab Emirates	172.0	0.0	0.0	0.0	0.0	172.0	0.0	0.0	0.0	128.0	21.0	0.0	36.0	0.0	185.0	107.6	107.6
United Kingdom Vietnam	62.0 161.0	20.0 47.0	53.0 25.0	0.0	0.0	135.0 233.0	0.0	0.0	1.0	60.0	20.0	20.0	30.0	0.0	131.0	97.0	211.3
Other	0.0	0.0	0.0	0.0	0.0	0.0	22.0	11.0	76.0	79.0	0.0	22.0	24.0	0.0	234.0	0.0	0.0
3410	0.0	0.0	0.0	0.0	0.0	0.0	22.0	11.0	70.0	75.0	0.0	22.0	24.0	0.0	234.0		

Walnut (Shelled) Imports to Ukraine by Origin, MY, MT (HS Code 080232)

Origin	MY 20 (Sep 13-	<i>'</i>	MY 20 (Sep 14-	14/15 Aug 15)	MY 20 (Sep 15-	% Change MY 2015/16 to	
	Quantity	Quantity % Share Quantity		% Share	Quantity	% Share	MY 2014/15
World	2.0	100.00	2.0	100.00	6.0	100.00	162.20
EU-28	0.0	8.11	1.0	32.81	5.0	85.18	580.66
Lithuania	0.0	0.00	0.0	0.00	5.0	83.04	0.00
Chile	2.0	79.34	0.0	16.33	1.0	12.99	108.53
Germany	0.0	8.11	1.0	31.68	0.0	1.95	- 83.84
Uzbekistan	0.0	7.24	0.0	5.66	0.0	1.33	- 38.46
United States	0.0	3.82	1.0	45.20	0.0	0.51	- 97.05
Hungary	0.0	0.00	0.0	0.00	0.0	0.19	0.00
Moldova	0.0	1.49	0.0	0.00	0.0	0.00	0.00
United Kingdom	0.0	0.00	0.0	1.13	0.0	0.00	- 100.00

Source: State Fiscal Service of Ukraine

Walnut (Shelled) Imports to Ukraine by Month and Origin, MT (HS Code 080232)

Origin	Subtotal Sep 2015-Apr 2016	May 16	Jun 16	Jul 16	Aug 16	Subtotal MY 2015/16	Sep 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	Subtotal Sep 2016-Apr 2017	% Share Sep 2016-Apr 2017 to MY2015/16	% Change Sep 2016 - April 2017 to Sep 2015 - April 2016
World	6.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	16.7	16.7
EU-28	5.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chile	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Belgium	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	∞
Germany	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞	∞
Hungary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞	∞
Lithuania	5.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tajikistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	∞	∞
United States	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞	∞
Uzbekistan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	∞	∞

Source: State Fiscal Service of Ukraine

Walnut (In Shell) Imports to Ukraine by Origin, MY, MT (HS 080231)

Origin	MY 20 (Sep 13-	•	MY 20 (Sep 14-	14/15 -Aug 15)	MY 20 (Sep 15-	% Change MY 2015/16 to	
	Quantity	% Share	Quantity	% Share Quantity % Share		MY 2014/15	
World	0.0	100.00	46.0	100.00	40.0	100.00	- 13.71
Belize	0.0	0.00	0.0	0.00	40.0	100.00	0.00
Iraq	0.0	0.00	46.0	100.00	0.0	0.00	- 100.00
Poland	0.0	100.00	0.0	0.00	0.0	0.00	0.00