

Ukraine and Russian Federation Agricultural Production

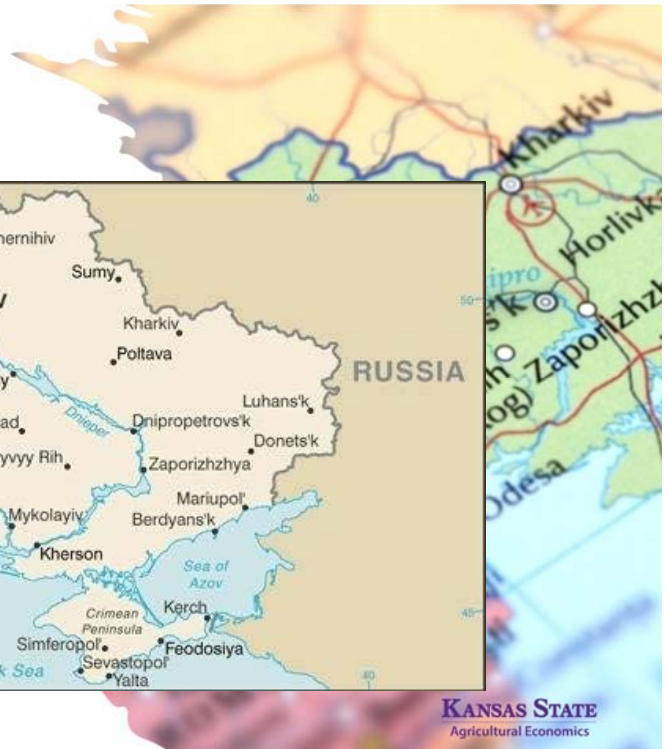
Allen M. Featherstone
Kansas State University



Map of Ukraine



Source: CIA World Factbook



Area Held by Russia



Source: Fox News



Ukrainian Ports

Seaports

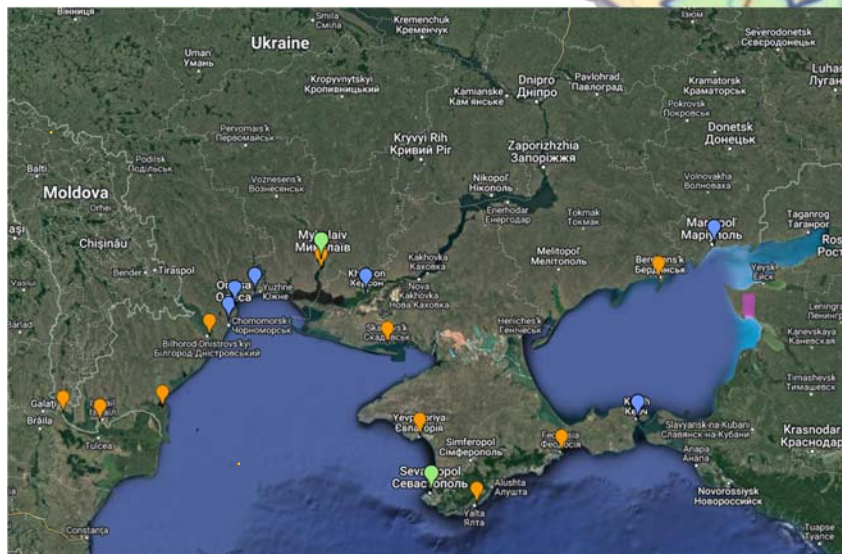
- Feodosiia
- Chornomorsk
- Mariupol
- Mykolaiv
- Odesa
- Yuzhne

River Ports

- Kherson
- Kyiv
- Mykolaiv

Key

- Small
- Medium
- Large



Source: Google Maps, World Port Source



General Statistics

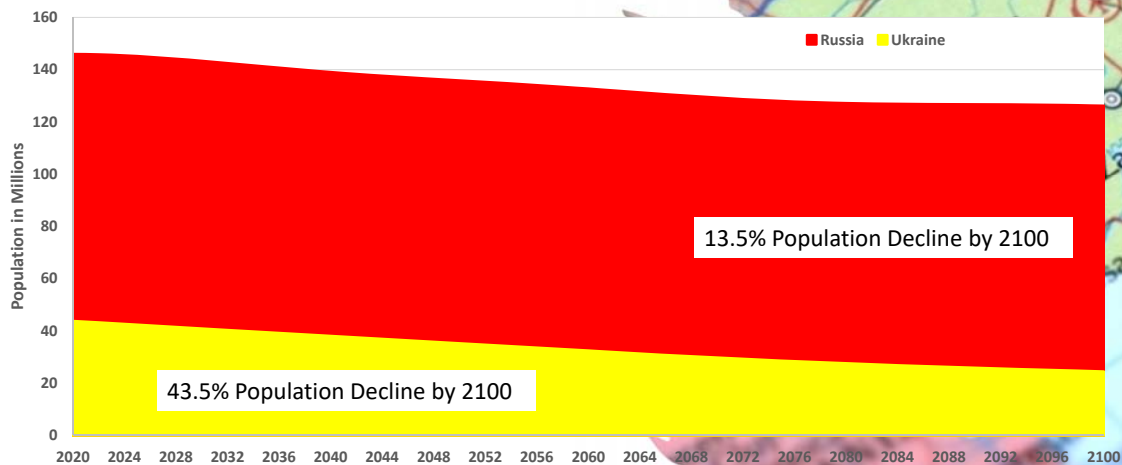
Country	Russia	Ukraine	United States
Area (sq. km.)	17,098,242	630,550	9,833,517
Population (2021)	142,320,790	42,745,640	334,998,398
Population Density	8.3 persons/sq. km.	67.8 persons/sq. km.	34.1 persons/sq. km.
Real GDP per capita (2020)	\$26,500	\$12,400	\$60,200
% of GDP Agriculture	4.7%	12.2%	0.9%
Agriculture Share of labor (%)	9.4%	5.8%	0.7%
S&P Rating (most recent)	BBB-	B	AA+
Military Expenditures % of GDP	4.0%	4.0%	3.5%
Median Age	40.3	41.2	38.5
Life Expectancy Men	66.6	68.5	78.2
Life Expectancy Women	78.1	78.2	82.3
Fertility Rate (children per female)	1.60	1.56	1.84



Source: CIA World Factbook



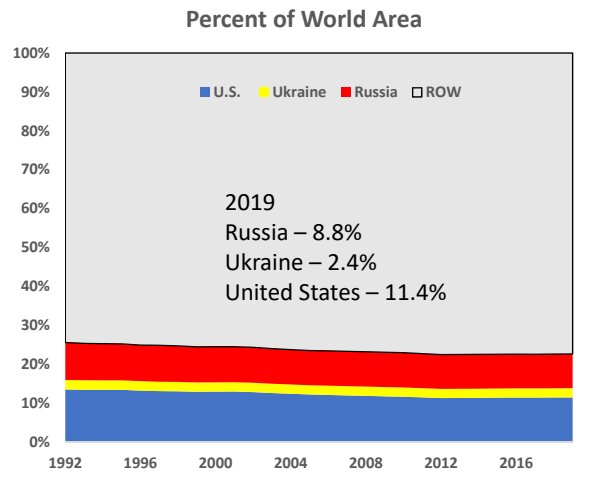
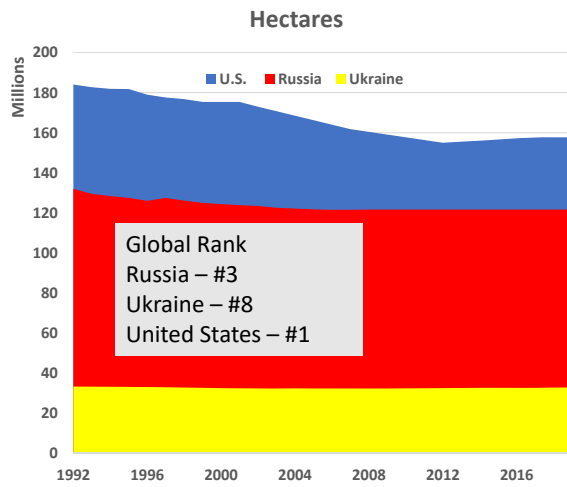
Russian – Ukrainian Population Projections



Source: UN World Population Prospects 2019



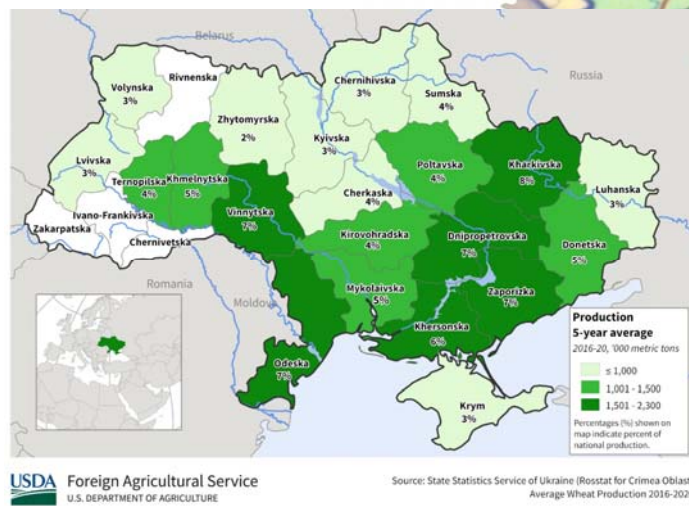
Ukraine - Russian Arable Land



Source: FAOSTAT for raw data



Ukraine Wheat Production



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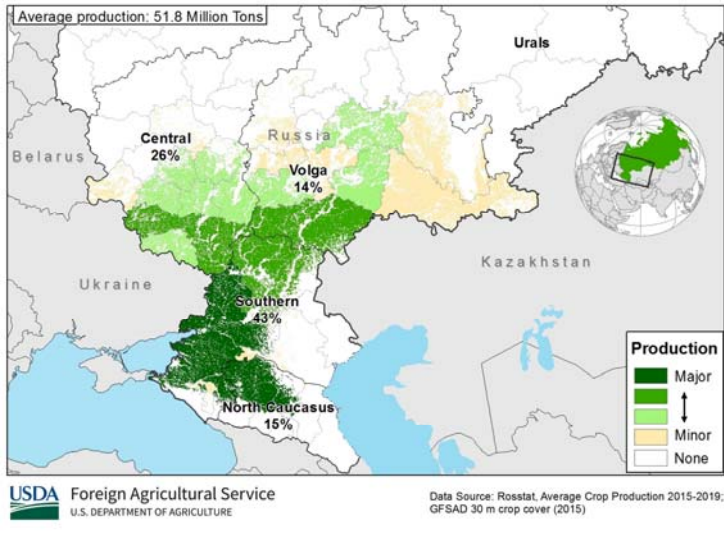
Source: State Statistics Service of Ukraine (Rosstat for Crimea Oblast)
 Average Wheat Production 2016-2020



Russian Total Wheat Production



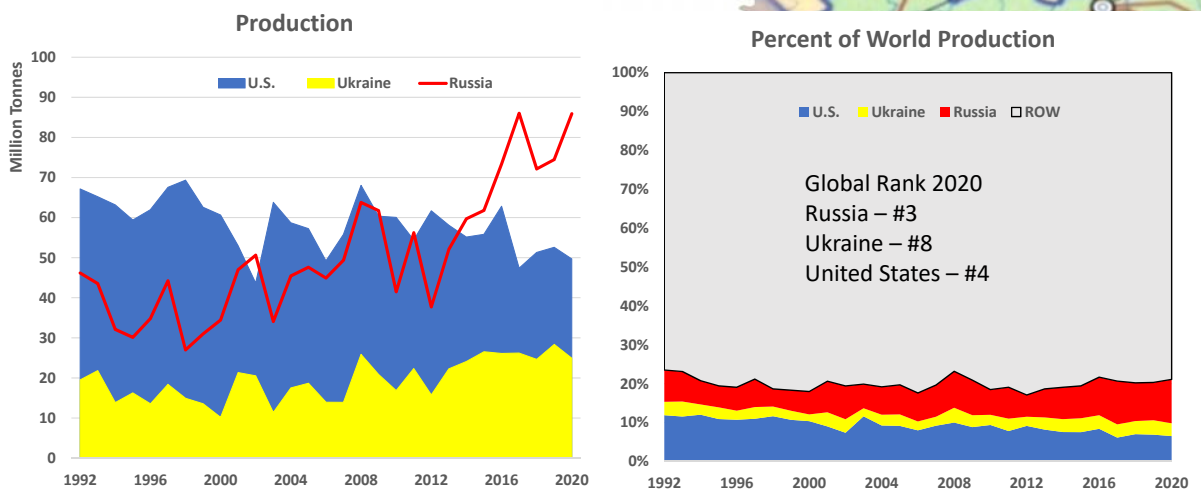
Russian Winter Wheat Production



Russian Spring Wheat Production



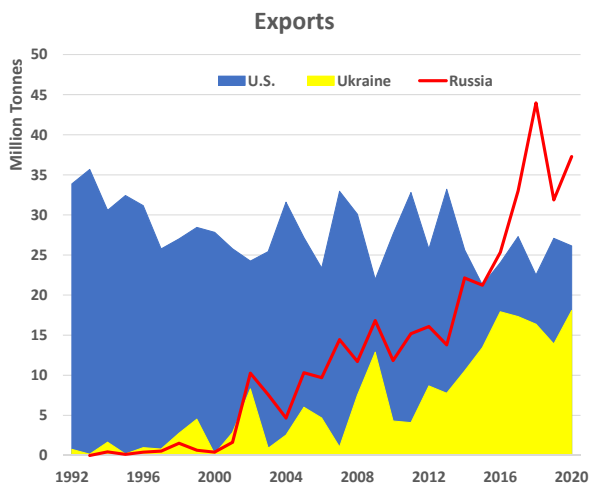
Ukraine - Russian Wheat Production



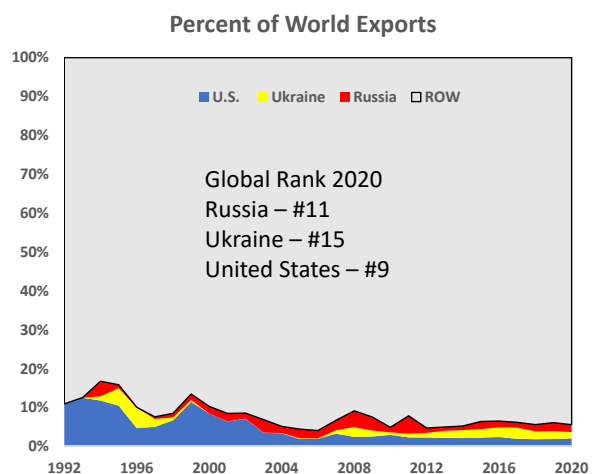
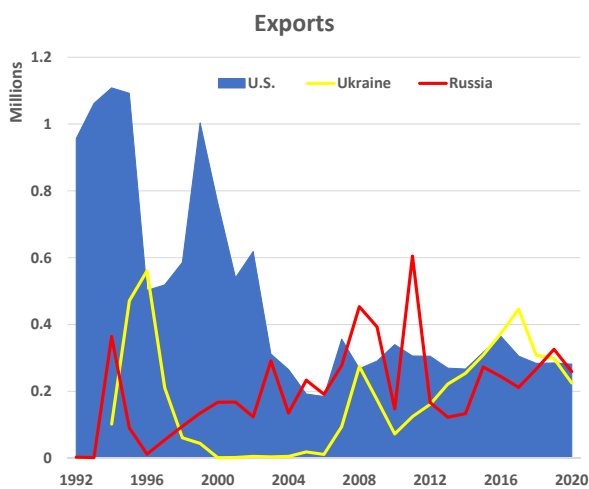
Source: FAOSTAT for raw data



Ukraine - Russian Wheat Exports



Ukraine - Russian Wheat Flour Exports



Ukraine – Destination of Wheat Exports

Country (2020 Rank)	2017	2018	2019	2020
Egypt	2,659,339	1,396,268	1,767,563	3,075,224
Indonesia	2,055,069	2,606,432	2,675,197	2,718,664
Bangladesh	1,971,307	914,599	0	1,514,725
Pakistan	0	0	0	1,244,446
Turkey	597,390	237,374	1,108,987	1,003,760
Tunisia	818,131	1,026,530	983,202	984,016
Morocco	619,308	1,385,245	888,027	952,039
Yemen	158,350	519,586	336,580	708,249
Lebanon	396,889	287,586	357,072	669,663
Philippines	876,760	1,754,936	1,218,109	631,966
Rest of the World	7,160,632	6,244,834	4,566,469	4,552,922



Source: FAOSTAT for raw data



Russia – Destination of Wheat Exports

Country (2020 Rank)	2017	2018	2019	2020
Egypt	7,835,347	9,576,778	6,129,970	8,254,555
Turkey	3,448,572	4,974,083	7,035,357	7,900,550
Bangladesh	1,923,411	1,862,359	2,582,342	1,940,855
Azerbaijan	1,213,909	702,353	1,285,439	1,385,007
Sudan	1,454,593	2,149,574	986,953	1,333,409
Pakistan	0	0	0	1,173,081
Nigeria	1,386,392	1,975,421	894,730	998,131
Yemen	1,435,240	1,343,464	880,507	796,103
Tanzania	680,662	760,614	516,097	700,911
United Arab Emirates	970,737	706,328	736,157	674,558
Rest of the World	12,665,684	19,914,655	10,825,623	12,109,856



2020 Wheat Summary

Country	Russia	Ukraine
Production (tonnes)	85,896,326	24,912,350
% of Global Production	11.3%	3.3%
Exports (tonnes)	37,267,014	18,055,673
% of Global Exports	18.8%	9.1%
Exports as % of Production	43.4%	72.5%

Largest Impact of the Ukraine – Russia Federation Conflict will be in the Wheat Market

Total Production – 14.6%

Total Exports – 27.9%

Major Importers Affected (2020 Exports)

Egypt – 11.3 million metric tonnes

Turkey – 8.9 million metric tonnes

Bangladesh – 3.5 million metric tonnes

Indonesia – 2.7 million metric tonnes

Pakistan – 2.4 million metric tonnes



Ukraine Corn Production

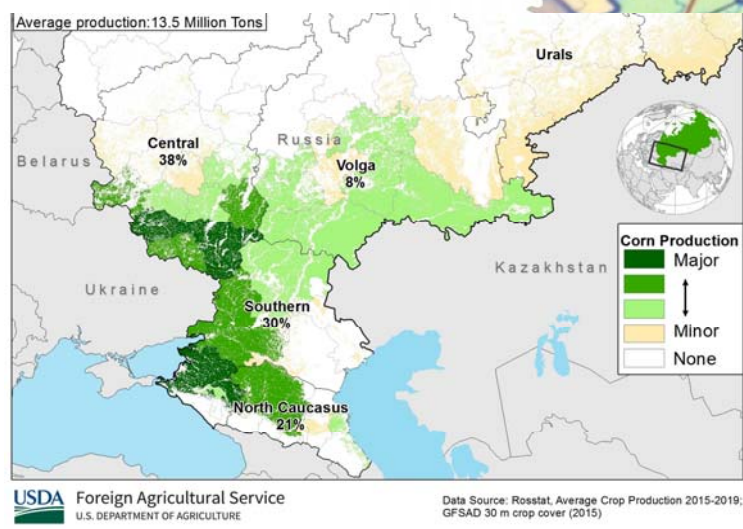


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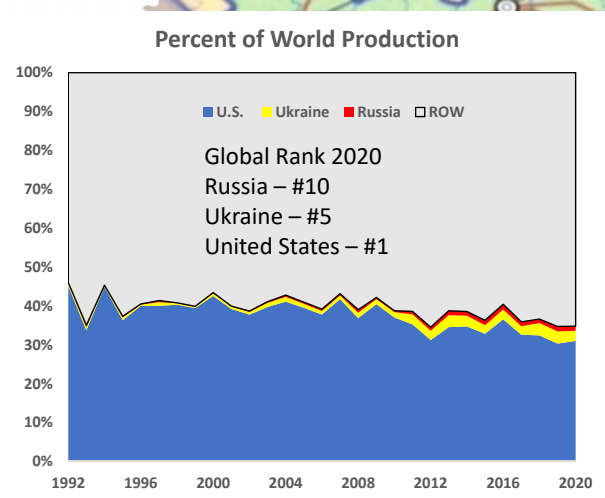
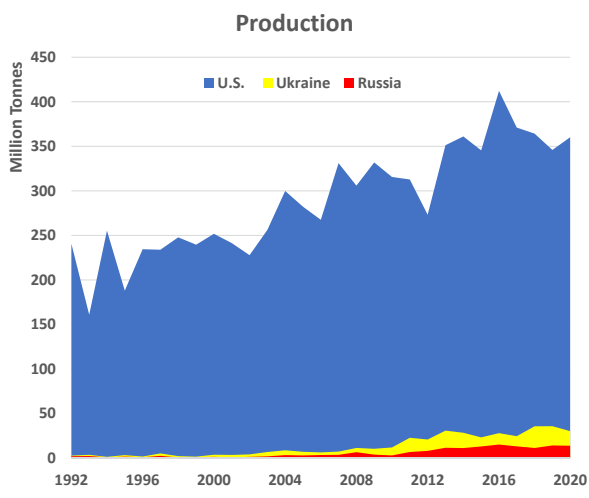
Source: State Statistics Service of Ukraine (Rosstat for Crimea Oblast)
Average Corn Production 2016-2020



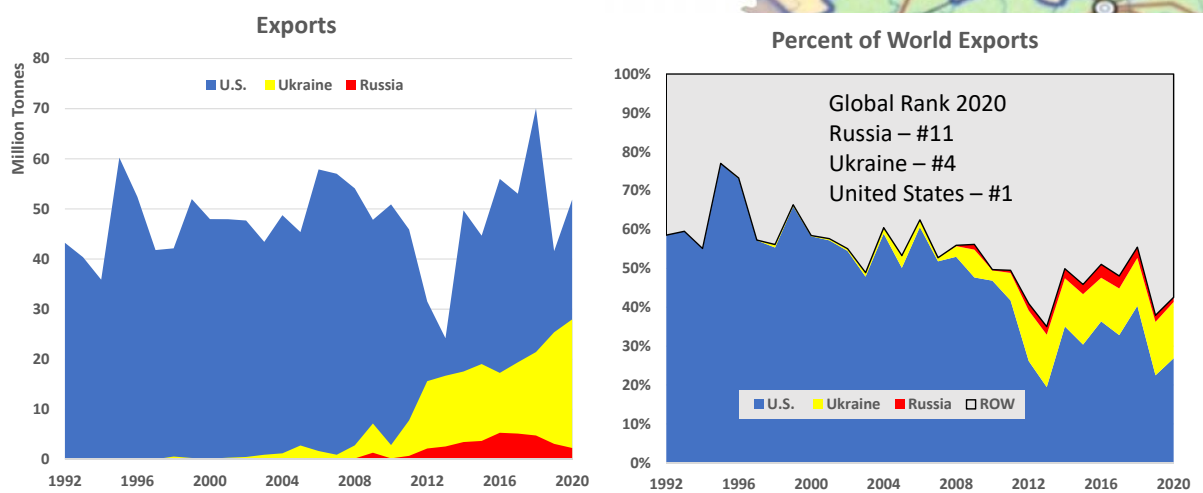
Russian Corn Production



Ukraine - Russian Corn Production



Ukraine - Russian Corn Exports



Ukraine – Destination of Corn Exports

Country (2020 Rank)	2017	2018	2019	2020
China	2,013,072	2,878,862	4,137,695	7,712,511
Netherlands	2,787,088	3,178,102	4,118,708	2,989,169
Egypt	2,555,207	2,434,515	921,700	2,923,875
Spain	2,187,368	3,060,517	4,057,264	2,679,600
Turkey	694,063	806,242	2,048,326	1,432,014
Korea	338,751	71,119	381,188	1,320,150
Iran	982,098	1,229,263	0	1,221,416
Israel	1,170,970	799,347	1,335,447	809,205
Algeria	128,984	30,207	0	772,579
Portugal	719,163	689,807	873,659	734,053
Rest of the World	5,816,681	6,262,648	7,489,012	5,357,912



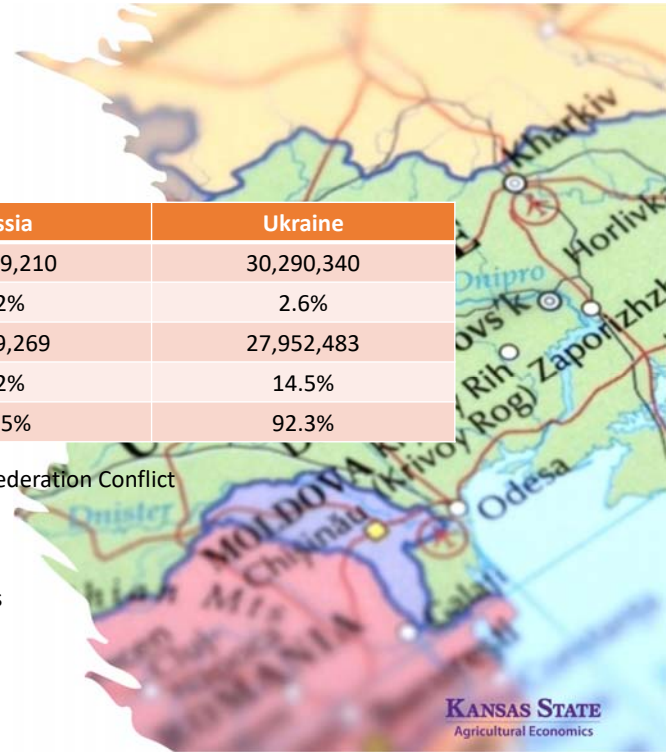
2020 Corn Summary

Country	Russia	Ukraine
Production (tonnes)	13,879,210	30,290,340
% of Global Production	1.2%	2.6%
Exports (tonnes)	2,289,269	27,952,483
% of Global Exports	1.2%	14.5%
Exports as % of Production	16.5%	92.3%

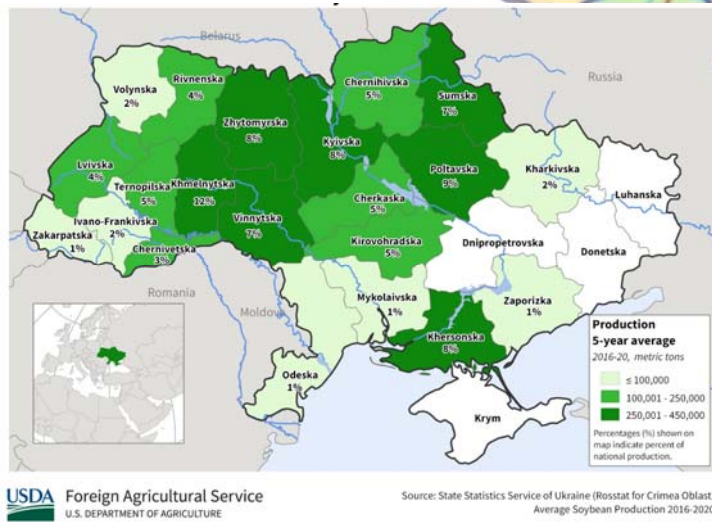
Important Impacts of the Ukraine – Russia Federation Conflict
Mostly on Ukraine

Major Importers Affected (2020 Exports)

- China – 7.7 million metric tonnes
- Netherlands – 3.0 million metric tonnes
- Egypt – 2.9 million metric tonnes
- Spain – 2.7 million metric tonnes
- Turkey – 1.4 million metric tonnes

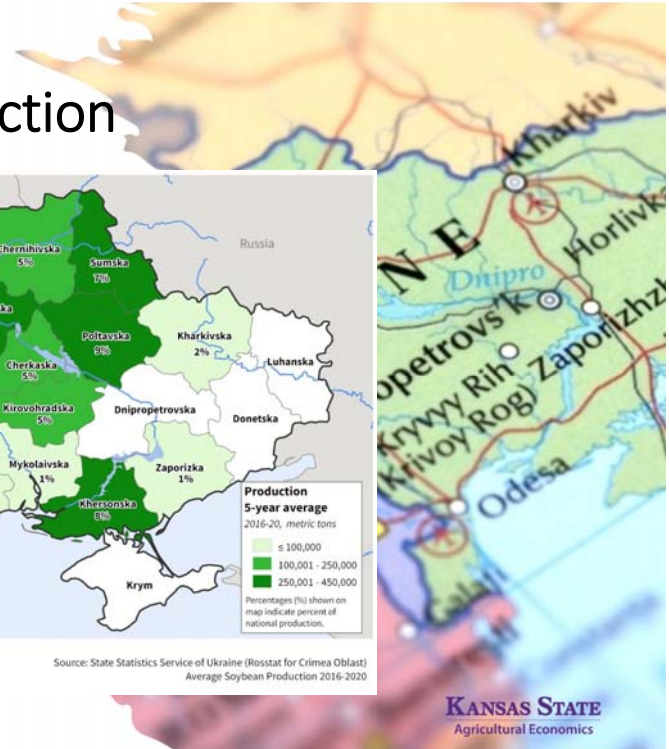


Ukraine Soybean Production

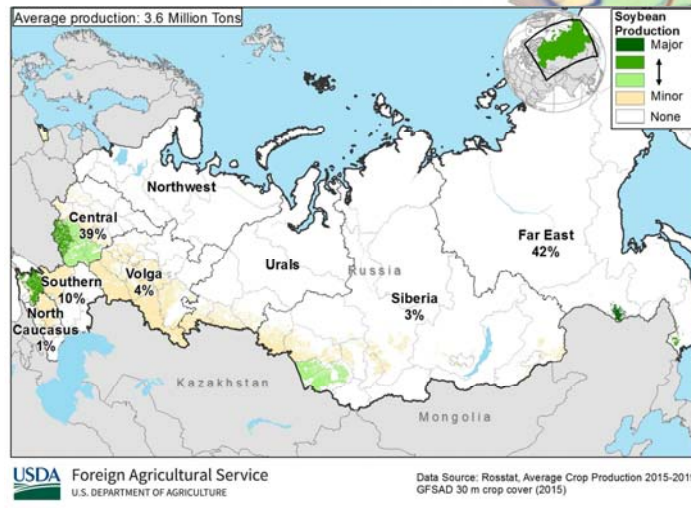


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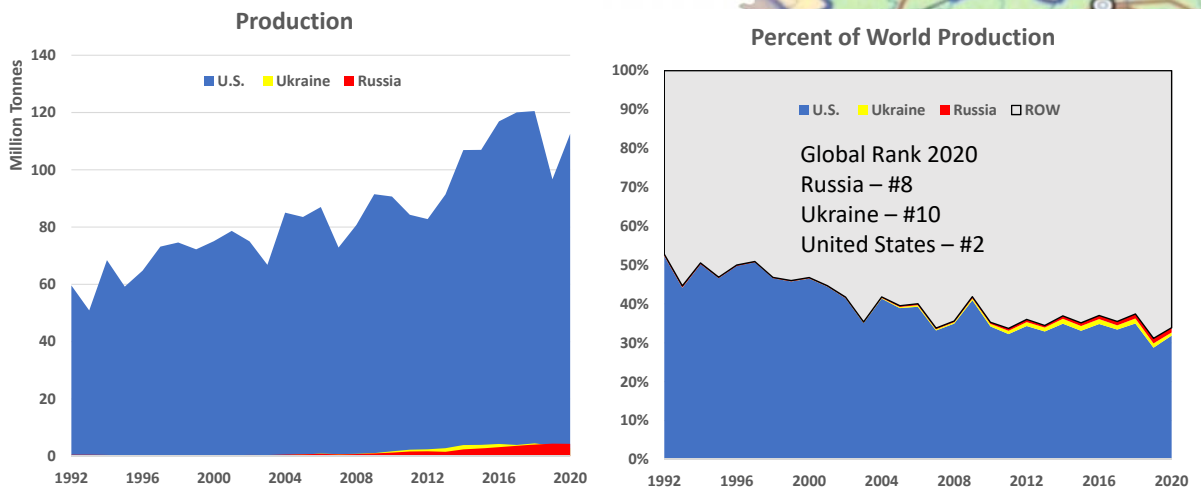
Source: State Statistics Service of Ukraine (Rosstat for Crimea Oblast)
Average Soybean Production 2016-2020



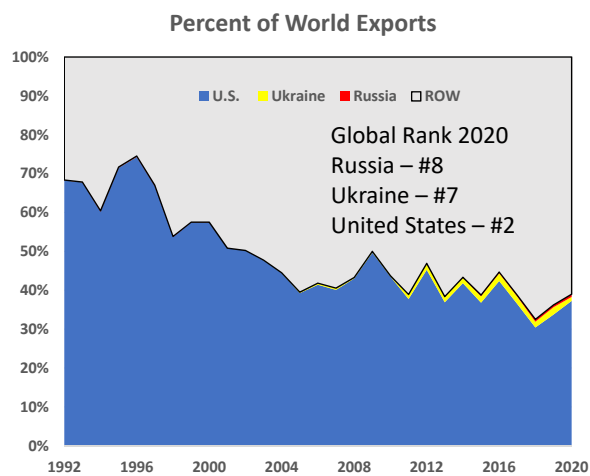
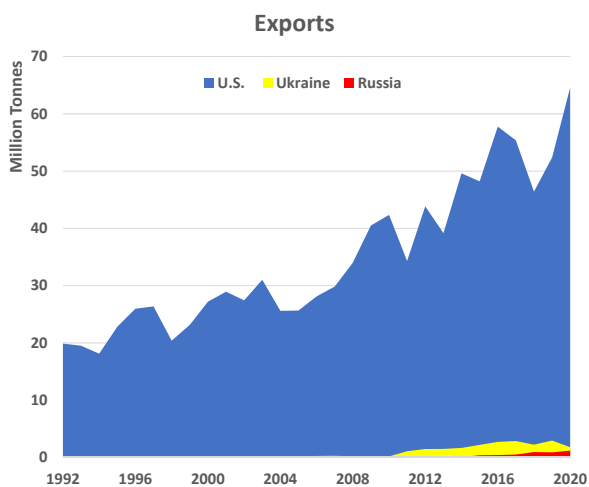
Russian Soybean Production



Ukraine - Russian Soybean Production



Ukraine - Russian Soybean Exports



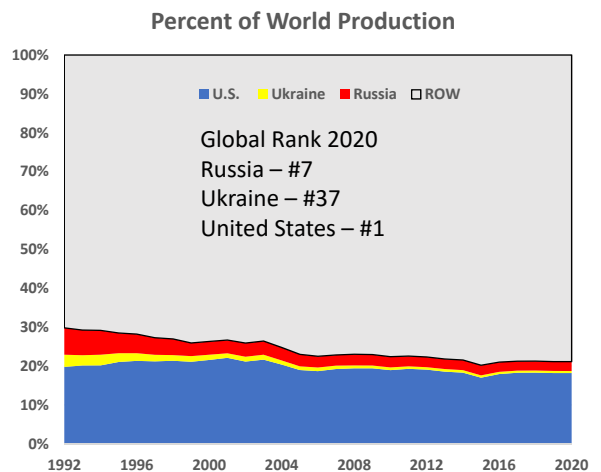
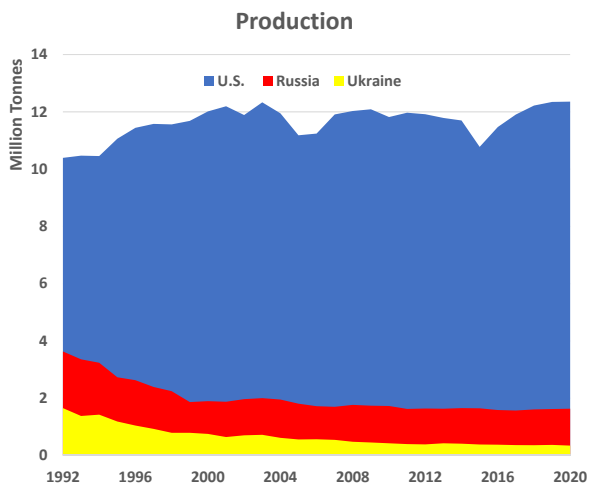
2020 Soybean Summary

Country	Russia	Ukraine
Production (tonnes)	4,307,593	2,797,670
% of Global Production	1.2%	0.8%
Exports (tonnes)	1,195,856	1,789,059
% of Global Exports	0.7%	1.0%
Exports as % of Production	27.8%	63.9%

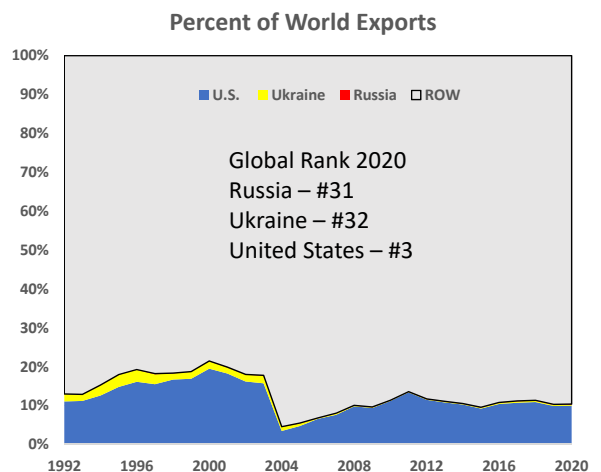
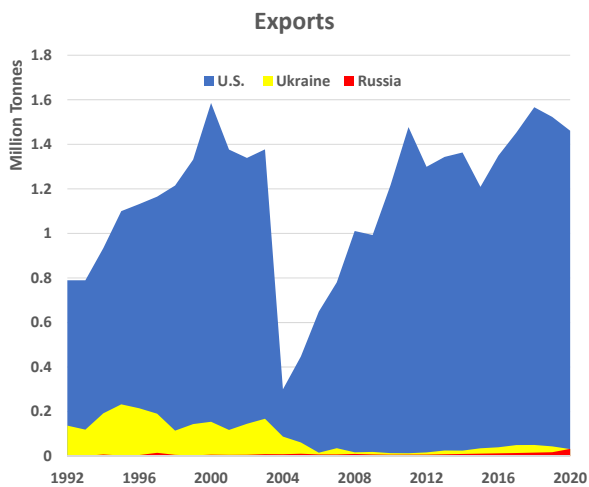
Relatively Less Important Impacts of the Ukraine – Russia Federation Conflict
Ukraine exports a significant percent of soybeans produced



Ukraine - Russian Beef Production



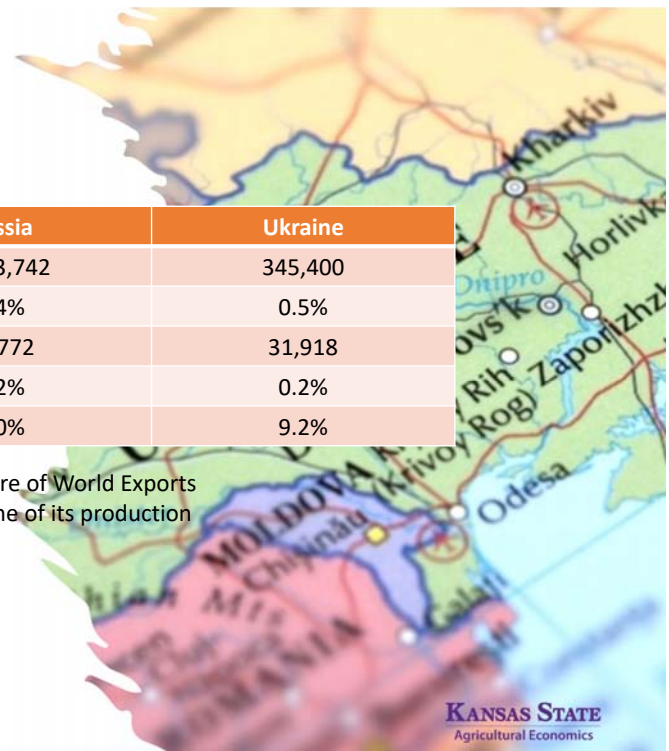
Ukraine - Russian Beef Exports



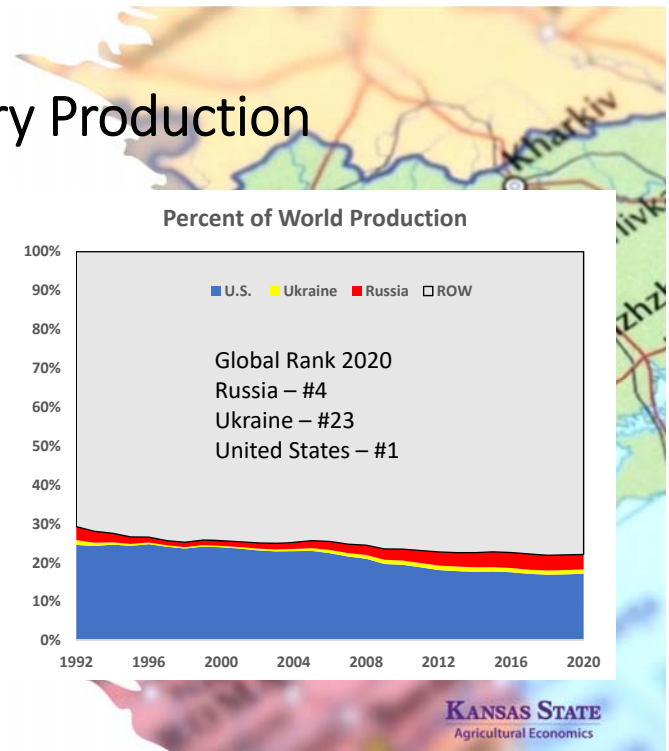
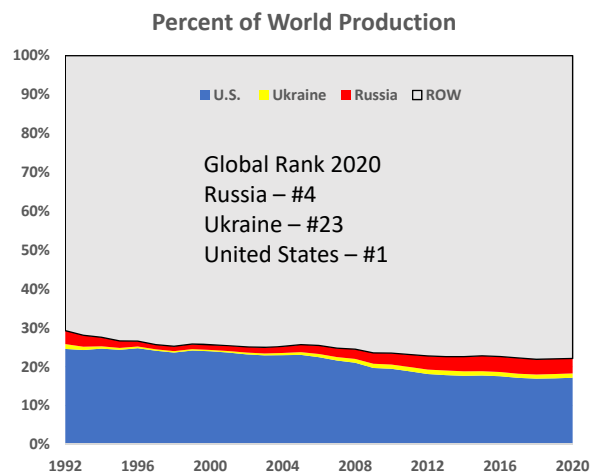
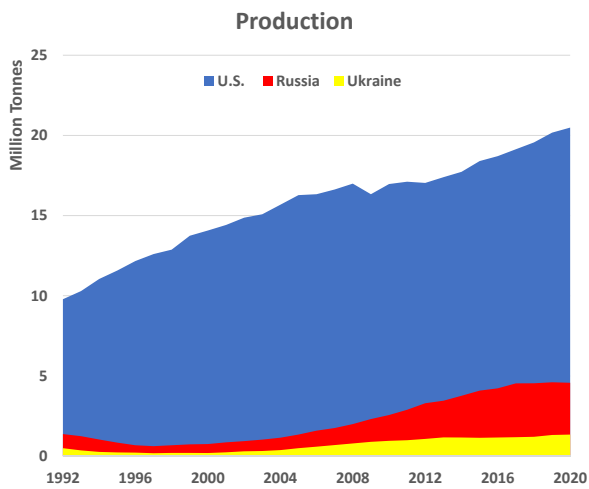
2020 Beef Summary

Country	Russia	Ukraine
Production (tonnes)	1,633,742	345,400
% of Global Production	2.4%	0.5%
Exports (tonnes)	32,772	31,918
% of Global Exports	0.2%	0.2%
Exports as % of Production	2.0%	9.2%

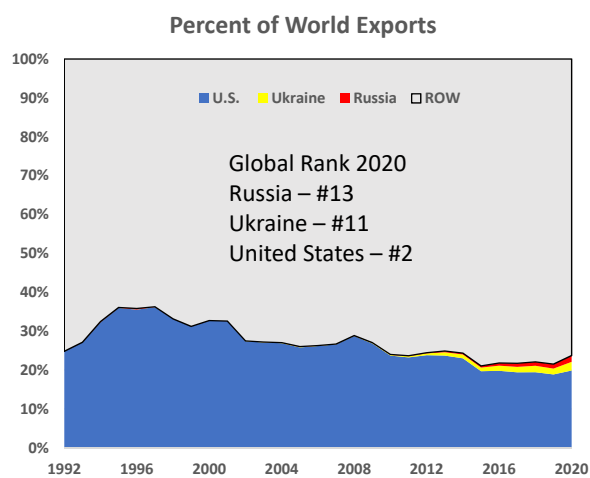
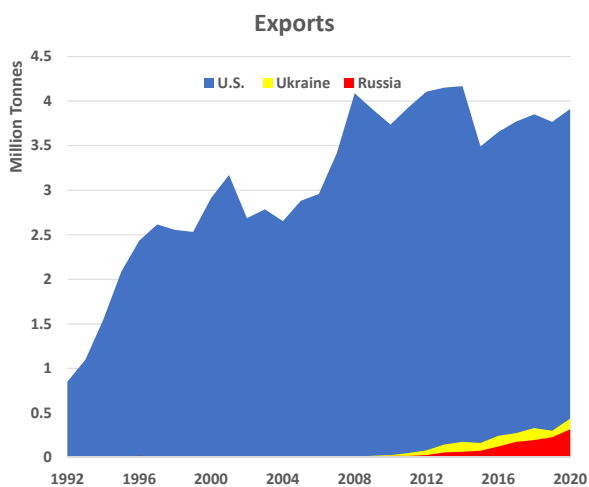
Exports from Ukraine and Russia a Small Share of World Exports
 Ukraine exports a significant volume of its production



Ukraine - Russian Poultry Production



Ukraine - Russian Poultry Exports



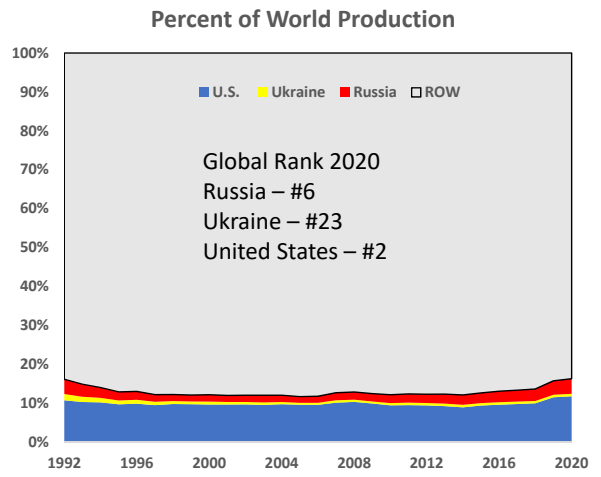
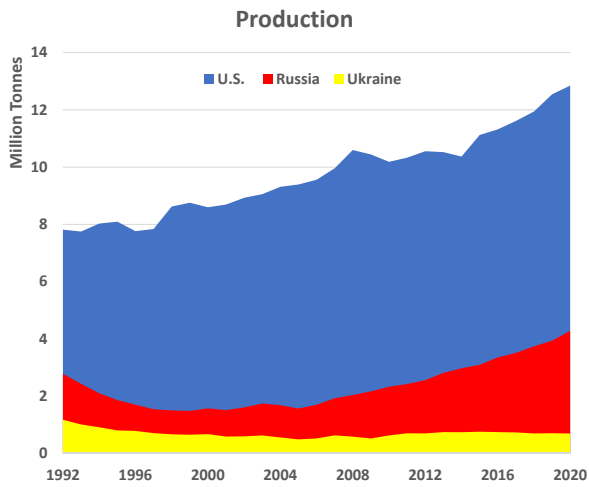
2020 Poultry Summary

Country	Russia	Ukraine
Production (tonnes)	4,576,733	1,343,910
% of Global Production	3.8%	1.1%
Exports (tonnes)	317,123	436,405
% of Global Exports	1.6%	2.2%
Exports as % of Production	6.9%	32.5%

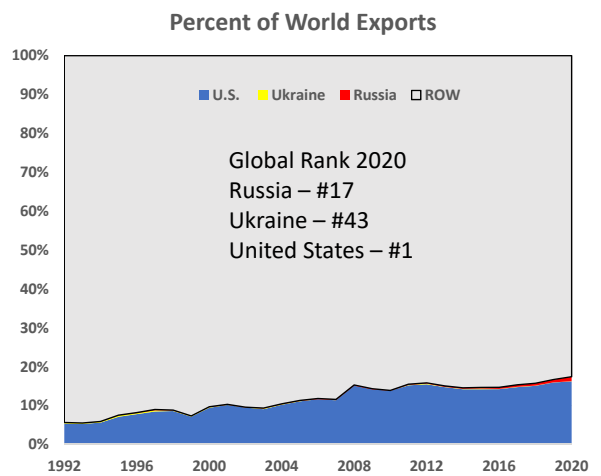
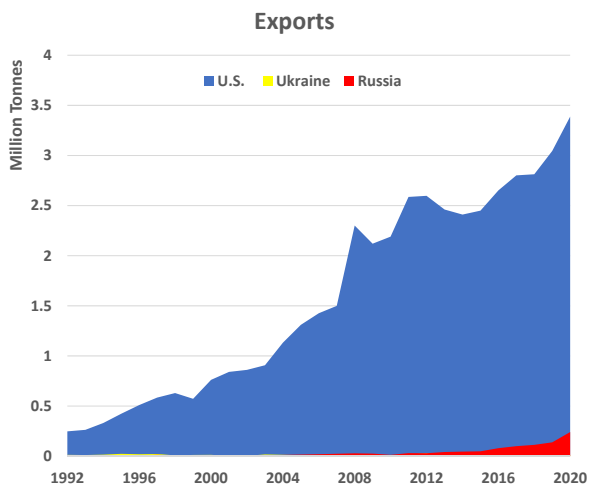
Exports from Ukraine and Russia a Small Share of World Exports
 Poultry exports 10 times that of beef
 Ukraine exports a significant volume of its production



Ukraine - Russian Pork Production



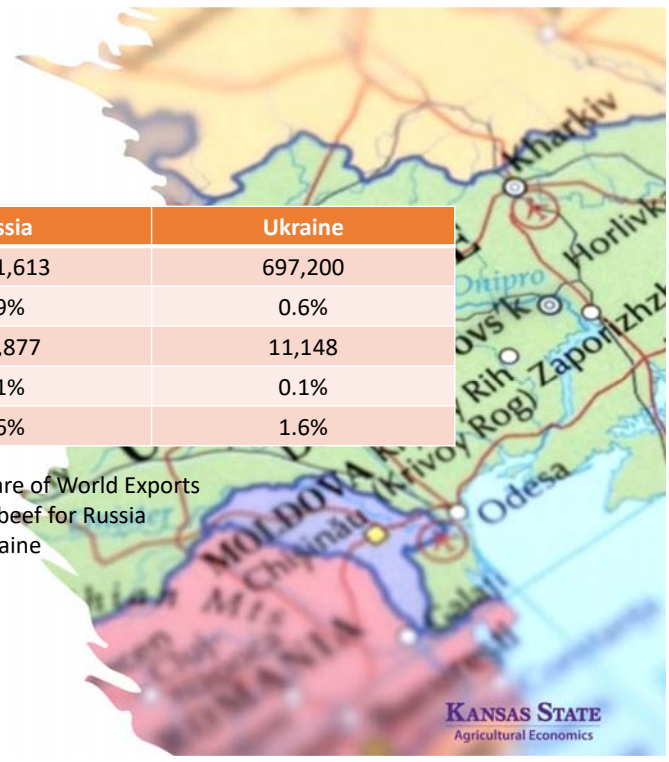
Ukraine - Russian Pork Exports



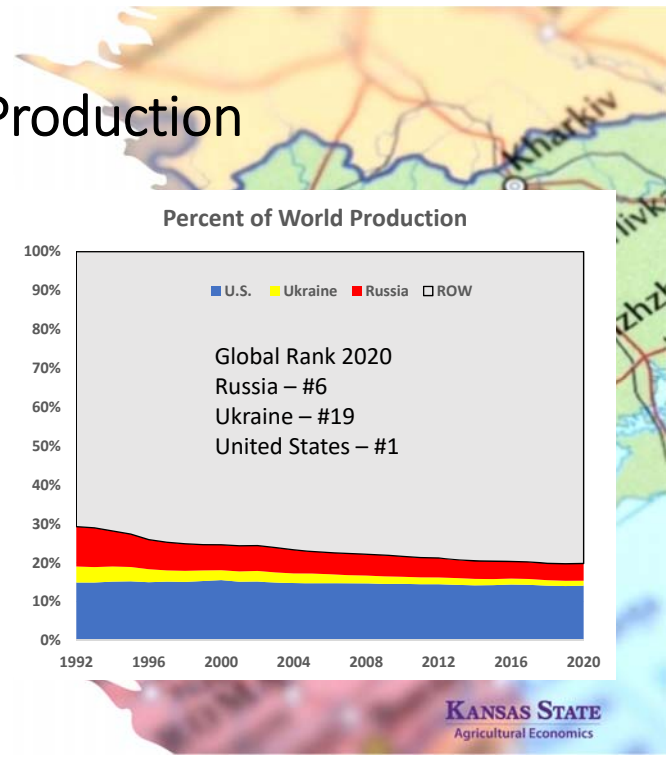
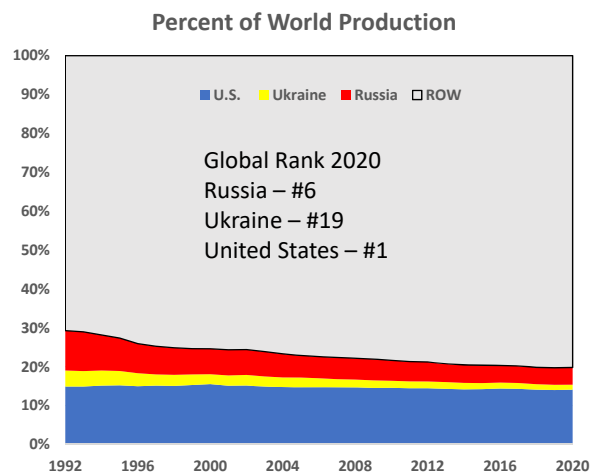
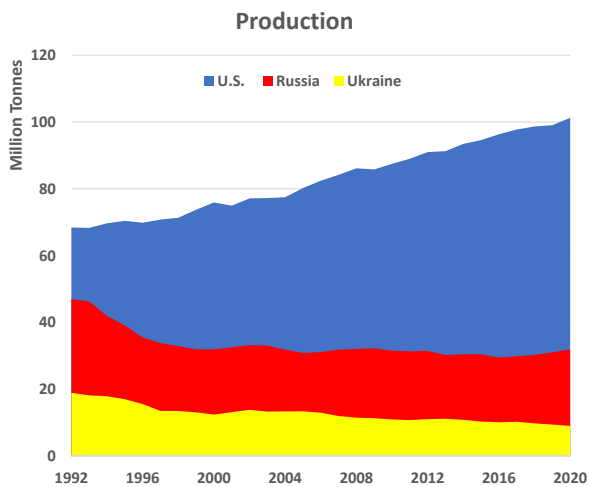
2020 Pork Summary

Country	Russia	Ukraine
Production (tonnes)	4,281,613	697,200
% of Global Production	3.9%	0.6%
Exports (tonnes)	239,877	11,148
% of Global Exports	1.1%	0.1%
Exports as % of Production	5.6%	1.6%

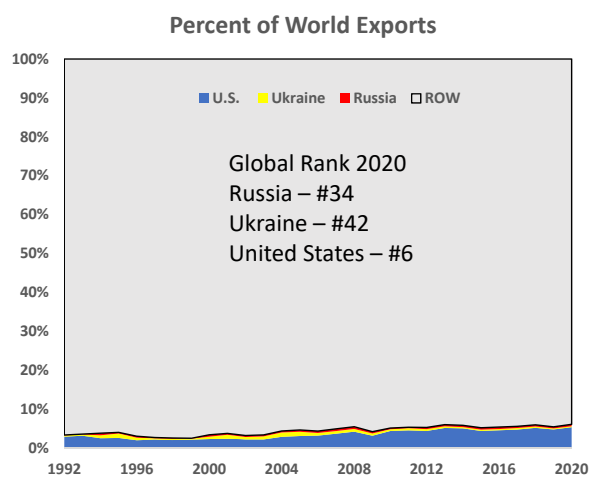
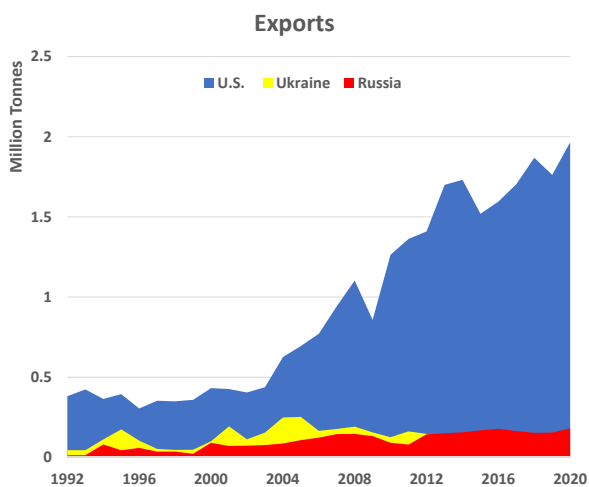
Exports from Ukraine and Russia a Small Share of World Exports
 Pork exports are more significant than beef for Russia
 Pork exports are less significant for Ukraine



Ukraine - Russian Milk Production



Ukraine - Russian Dairy Exports



2020 Milk Summary

Country	Russia	Ukraine
Production (tonnes)	31,959,801	9,057,970
% of Global Production	4.5%	1.3%
Exports (tonnes)	180,813	96,343
% of Global Exports	0.5%	0.3%
Exports as % of Production	0.6%	1.1%

Exports from Ukraine and Russia a Small Share of World Exports



Ukraine – Russian Conflict Ramifications

- Crop Trade Effects

- Major disruptions in the World Wheat Market
- Significant disruptions in the World Corn Market
- Smaller direct disruptions in the World Soybean Market

- Livestock Trade Effects

- Much smaller effects than the crop effects
- Most significant in poultry for both Ukraine and Russia
- More significant for Russia in the pork industry
- Smaller significance in the Beef and Dairy sectors



Questions?

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