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Agri-Food Trade and Cooperation, Measuring Sectoral Effects of the EU-UK post-Bre	exity Trade Agreement
Adam Gerval, Jeremy Jelliffe, and William Johnson	
Selected presentation for the International Agricultural Trade Research Consortium's (IATRC's) 2023 Annual Meeti and Trade Governance in Times of Economic Sanctions and Declining Multilateralism, December 10-12, 2023, Cle	
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Agri-food trade and cooperation, measuring sectoral effects of the EU-UK post-Brexit trade agreement

Adam Gerval, Jeremy Jelliffe, & William Johnson
USDA Economic Research Service
Markets & Trade Economics Division

IATRC Annual Meetings December 10-12, 2023

Disclaimer: The findings and conclusions in this abstract submission are those of the authors and should not be construed to represent any official USDA or U.S. Government determination or policy.







Overview

- Background: UK & European Union
- UK selected facts and figures
 - Production: trends and agricultural policy
 - Trade: "towards a Global Britain"
- Agri-food patterns under EU-UK TCA





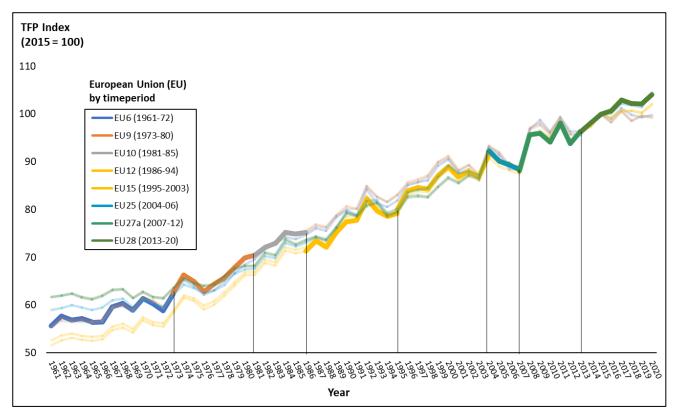




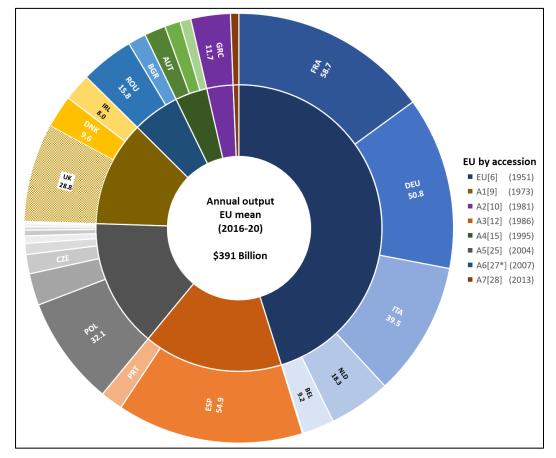




Original members yield almost half EU ag. output as UK generated a tenth of EU livestock pre-Brexit



Source: authors' calculations based on USDA ERS, IAP data product, October 2022.



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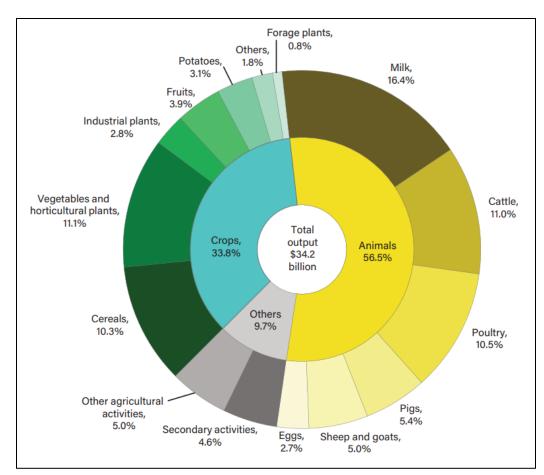


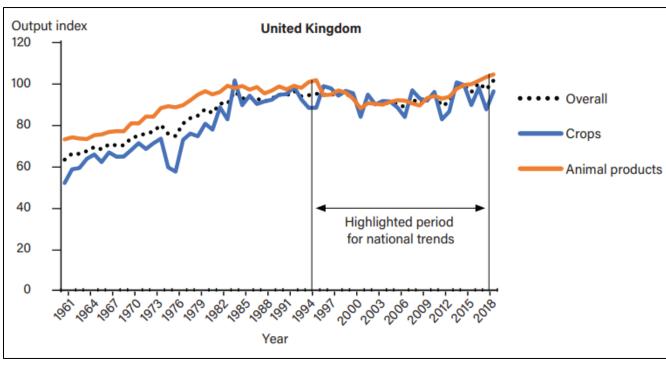






UK agricultural output stable & lead by animal products





Source: fig. 4, ERS EIB #250

Source: fig. 2, ERS EIB #250



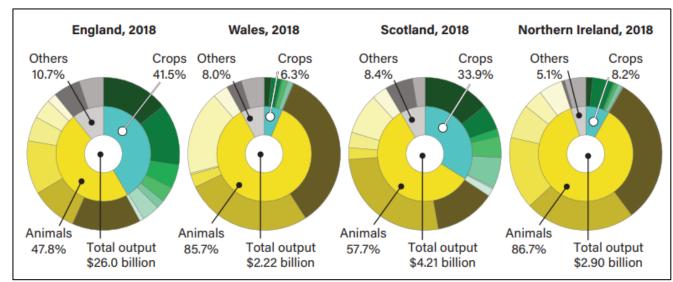




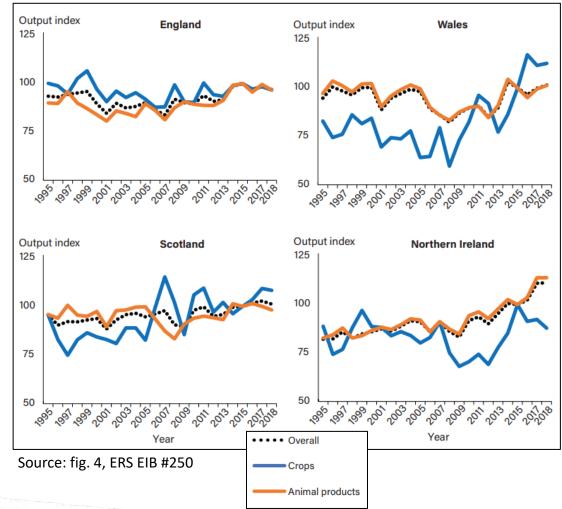


UK breakdown illustrates key sub-national differences

- England's balance of crops-to-animals
- Rest of UK greater reliance on cattle
- Makeup reflected in ag. policies

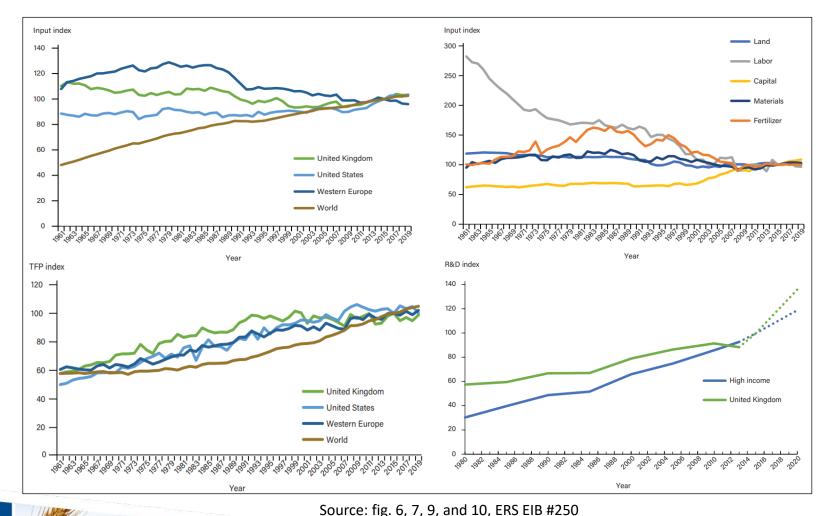


Source: fig. 2, ERS EIB #250



Trends in input use, productivity (TFP), and R&D are also key factors in UK agri-environmental policy

- UK under EU policies
 - Influence
 - CAPitalization
- 2-fold pressures
 - Intensive (inputs)
 - Extensive (land)
- R&D investments
 - Biotech policy & trials
 - Precision agriculture







From short-term transitions toward UK's long-term vision for the agri-environmental sectors and trade

- EU Common Ag. Policy (CAP)
 UK transition & replacements
 - England's Environmental Land Mgmt
 - Phase-in through 2027
 - N. Ireland & the new CAP (2023—27)
 - Scotland's "CAP by any other name"
 - Wales' Sustainable Farming Scheme

- UK Government Food Strategy
 - Env. Sustainability, GHG emissions, Land reclamation (forest & peat)
 - Animal welfare
 - R&D and technology transfer
 - Feed and environmental aims
 - Biotech, GE & GMO considerations
- UK Trade deals, deals, deals

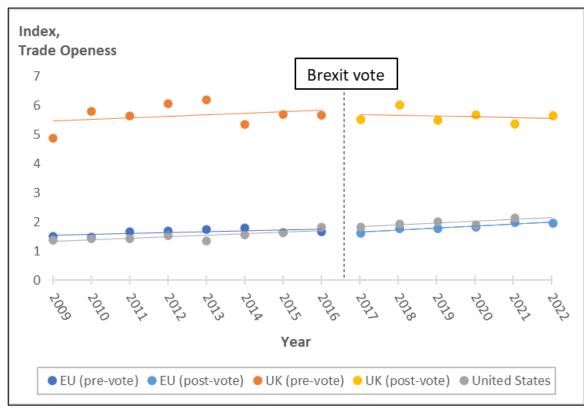








Compared to EU and U.S. ag. trade openness in UK is higher though decreasing trend after Brexit vote



Source: authors' calculations using data from World Bank (2023)

- UK trade openness down relative to G7 peers (UK in Changing Europe, 2023)
 - UK agri-food sector:
 - Openness
 - Post 2016 Brexit referendum
 - $-UK \downarrow$
 - EU and US 个



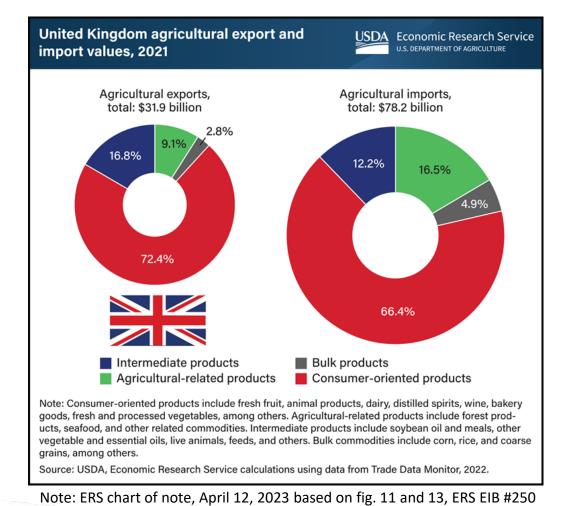






UK ag. & related trade remains closely tied to EU as the U.S. has emerged as a key supplier of green energy inputs

- EU reliance remains strong
 - EU-UK Trade & Cooperation Agreement (TCA) "1st of its kind"
 - UK-side checks begin 2024
- Renewable energy
 - U.S. exports
 - Wood pellets (too much?)
 - Bioethanol









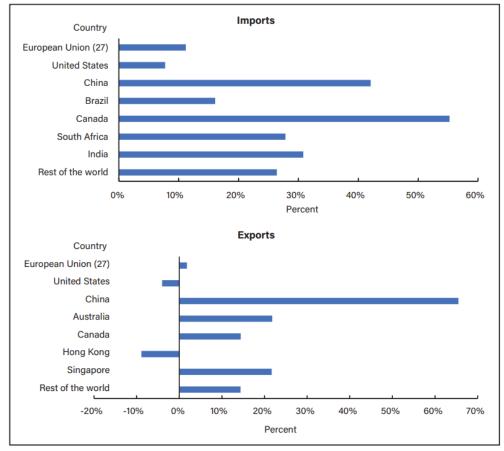




"Global Britain" negotiating free trade deals

- UK trade agreements
 - EU-UK Trade & Coop. Agreement
 - Australia and New Zealand
 - Roll-overs (44, 67 countries)
- Ongoing negotiations
 - CPTPP "Comp. & Prog. Agr. for Trans-Pac. Partnership"
 - Gulf Cooperative Council (GCC)
 - N. America (U.S., Canada, Mexico)

Percentage change in United Kingdom (UK) agricultural trade imports and exports, 5-year trends, 2016-21



Note: Trends are for the 5-year lead up to EU-UK TCA

Source: fig. 12, ERS EIB #250







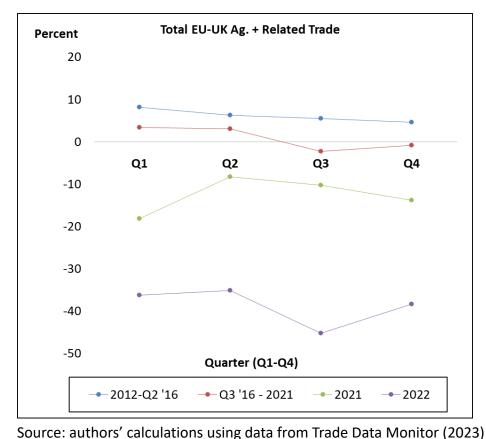






Following the TCA, UK ag. and related trade with EU has fallen relative to other trade partners

- Research question: what is the EU-UK TCA effect on ag.+ related trade?
- Establish counterfactual UK 'remained'
 - Analyzing differential trade trends:
 - Step 1: measure EU-UK quarterly trade
 - Step 2: de-trend EU & UK trade with 3rd c's
 - Step 3: account for intra-EU trade trends
- Attributing the losses and gains (next step):
 - Destruction and/or diversion (to 3rd c's)?













Expanded UK and EU reliance on goods from 3rd countries illustrated by import share of total trade declines

BICO category	UK-Side			EU-Side		
	Total	Export	Import	Total	Export	Import
Agriculture + related	-25.7	-12.9	-33.0	-21.3	-14.6	-37.7
Agriculture	-26.7	-18.4	-33.8	-21.6	-14.2	-39.7
Bulk	-28.7	37.5	-33.1	-30.1	-18.5	-48.7
Intermediate	-40.9	-12.5	-53.4	-22.0	-1.2	-49.7
Consumer	-22.6	-20.4	-26.9	-19.2	-16.0	-31.0
Related	-9.9	38.4	-16.4	-17.2	-18.3	-24.2

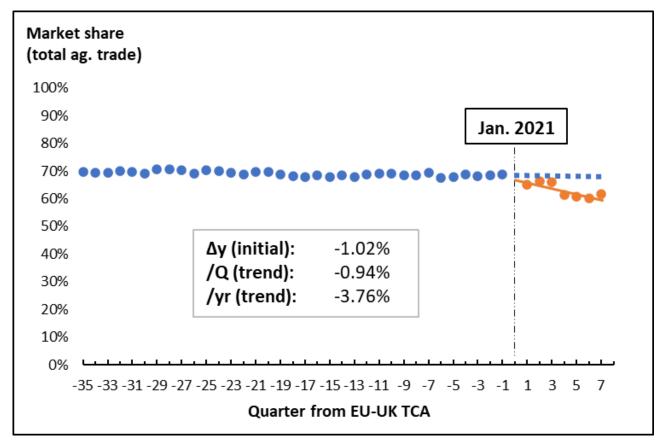
Source: authors' calculations using data from Trade Data Monitor (2023)

 UK deeper declines compared to EU (excl. bulk and related) Differential effects for bulk, intermediate, and ag. related, gravity approach? Supply chains?





Accounting for time trend paints a patterned picture that could be reinforced by incoming customs checks



Source: authors' calculations using data from Trade Data Monitor (2023)

TCA trade shock:

- Doppelganger 'member' UK (CER, Springford, 2021-23)
- Agriculture and related
 - Pre- v. Post-trend analysis

Next steps:

- Regression discontinuity design (RDD)
- Intra-EU trends controls
- U.S. agri-food trade with EU & UK
 - TCA effect?
 - Disentangling retaliatory tariffs?







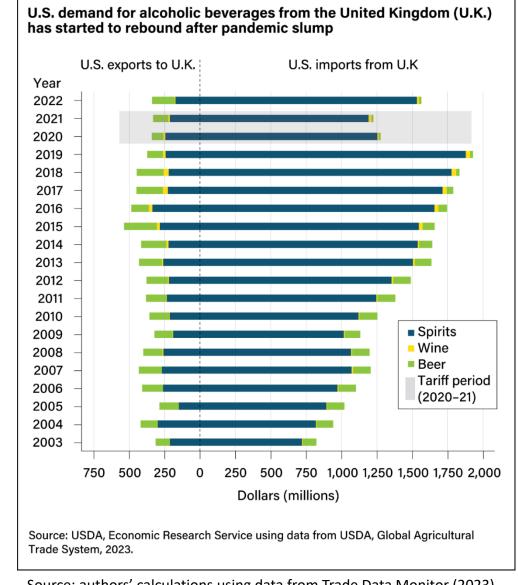




Closing considerations for **UK-U.S.** agri-food trade

Trade imbalance and U.S. demand for high-value consumer products

- A tornado of beverages
 - U.S. thirst for UK spirits
- Green energy transition
 - U.S. wood pellet industry trouble (WSJ, Nov. 22, 2023)
 - Bioethanol, the other ethanol
- Next step: disentangling tariff effects



Source: authors' calculations using data from Trade Data Monitor (2023)











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