

More Agrifood Trade Governance

Semester: Spring Semester 2022

Root Number: 446688

ECTS: 3

Lecturers: Christian Häberli & Ken Ash

Dates: 4 – 8 July 2022 (take-home assessment due on 9 July)

Location: 2022 WTI Summer Academy courses are held hybrid (on site and on [Zoom](#)).

Audience:

- Government officials; Embassy staff; people working for international organisations and NGOs
- Certificate of Advanced Studies / Diploma of Advanced Studies in International Law and Economics (CAS ILE & DAS ILE) Students - World Trade Institute, Unibe
- Master of Advanced Studies of International Law and Economics (MILE) Students
- Joint LL.M. / Diploma of Advanced Studies Trade and Investment Law (TRAIL+) Students - World Trade Institute / Faculty of Law, Unibe
- Students from different universities across Switzerland

Course Description

In February 2022, the FAO Food Price Index rose to a new all-time high, with another leap in March of 12.6% due to the war on Ukraine. And according to the International Energy Agency, in 2021 global CO² emissions reached their highest level in history. This raises the question whether the international governance framework with the present agrifood trade and investment rules - unchanged since 1995 - can contribute to climate change mitigation and global food security.

Food supply chains are heavily regulated compared with other economic sectors. Yet, in times of a perceived crisis, policy-makers often ignore both multilateral and regional rules, and good practices standards and recommendations from major institutions such as the World Bank, FAO and OECD. The Corona virus has motivated many governments to delay reforms and to increase farm support. The war in Ukraine, one of the

world's main grain chambers, is likely to change the geopolitics of food trade. Shorter supply chains, of course, may revive "food sovereignty" - but at what price?

Since the inception of WTO in 1995, agriculture trade has increased by more than 200%, and advanced developing countries are playing an increasingly important role. Moreover, the proportion of trade disputes dealing with agricultural products (including SPS/TBT) has decreased to less than a quarter of all new disputes. At the same time, and in the absence of a review of the complex rules framework, regulators and operators increase production and processing standards, invoking health, environment and societal concerns, and climate footprint levelling. Public International Law developments such as the Sustainable Development Goals and the Climate Agreement reflect global concerns while the International Economic Law tools and principles have failed to evolve. In turn, these challenges further exacerbate international governance uncertainty, impeding the capacity of the agriculture system to respond to new and rapidly evolving market conditions. Agrifood exporters and investors can no longer rely on WTO or RTA rules to avoid discrimination and trade-distortions.

The accelerating economic and environmental changes are amplifying pressure on agriculture to contribute to sustainable solutions. The location and type of demand is changing, particularly in food-insecure developing countries. Farm support, industrial subsidies, and trade barriers persistently impact on agricultural trade and investment.

In this course we look at the rules, and the economic justification for the WTO Agreement on Agriculture (AoA) and related multilateral and regional trade and investment agreements. We then examine how these rules which were created in response to the agricultural policy landscape of the 1980's fit the current global context for food security, food safety, and climate change mitigation. In addition to participating in interactive lectures and exercises, participants will be invited to identify, and present, specific agriculture-related issues of their choice (a non-exhaustive list of possible topics is provided below). On the fifth day of the week, participants will lead a discussion on the selected topics highlighting the interaction between existing trade rules and policy space.

Learning Objectives

At the end of this week participants can expect a good overview of the recent trends on global markets for agricultural products, as well as of the main obstacles preventing consensus solutions at the WTO Ministerial Conferences from Bali (2013) to Geneva (2022). Together with their own contributions, participants will also find answers to specific questions:

- Policy Responses to new challenges (SDG, Corona, War on Ukraine, etc.)
- What enabling conditions will allow food trade to contribute to food security, including of marginalized groups such as small farmers, poor consumers, and migrants?
- How to ensure food safety in the context of rapidly globalising food value chains without strangling developing country exports?
- How to address increasing trade conflicts arising from deforestation and other unsustainable production patterns (e.g., palm oil, soybeans, and beef)?



- What are the optimal policies for meeting (at times conflicting) core societal values and new challenges (e.g., climate change, animal welfare, child and forced labour), and for providing consumer information (e.g., on fat and sugar content, organic or halal production, country of origin and geographical indications)?

Lecturers

Ken Ash



Ken is a Visiting Fellow at the Institute for International Trade, University of Adelaide, and Director of Ash Global Insights Inc., offering advice to businesses and to governments on international trade and agricultural policies, with a specific focus on subsidy reform, supply chains, and global food systems.

Ken was Director of Trade and Agriculture at the OECD between 2008 and 2020, having served as Deputy Director since 1999. Ken led OECD efforts to provide evidence-based advice to governments, including in G7 and G20 groupings, with the aim of improving the domestic and international performance of trade, food, agriculture, and fisheries policies. During this period OECD expanded its annual agriculture policy monitoring and evaluation to 54 countries and 75% of global value-added; created internationally comparable policy data on trade facilitation, services trade, industrial subsidies, cross-border data flows, and export restrictions; and, increasingly integrated trade and sectoral analysis into comprehensive structural policy advice to support economically, socially, and environmentally sustainable outcomes. Prior to joining the OECD Ken had extensive experience in the Government of Canada. As Director General, Economic and Policy Analysis (1995-99) he provided strategic advice on agriculture and trade policies and on government-wide institutional reform. He holds both B. Comm and MBA degrees.



Christian Häberli

Fellow of the World Trade Institute since 2007 and a consultant for scientific research and outreach activities in Europe, Asia, Africa, and in the Americas. He has produced over 70 publications on trade and investment issues related to agriculture, food security and food safety, obesity and malnutrition, water, climate change, employment, multilateral and regional trade, and development (<https://www.wti.org/research/publications/?author=44>). In 1977 he earned a PhD with a thesis in African Investment Law (Basel University). He also has university degrees in Development Sciences from Geneva (1975) and in Theology from

Bern (2009). His professional career started in 1978 with the International Labour Organization (ILO) and with the Swiss Government, based in Madagascar, Thailand, Nepal, and Switzerland. Dr Häberli was a trade negotiator for Switzerland in the GATT and the WTO during the Uruguay and the Doha Rounds (1986 to 2007). He was Chair of the WTO Committee on Agriculture (Regular Session, 2005 – 07) and WTO Panellist 1996 – 2015, in twenty stages of five dispute settlement cases (bananas, apples, biotech, audio-visuals, and country of origin labelling). Chairperson of the Arbitration Panel initiated by the EU on restrictions applied by Ukraine on exports of certain wood products (2020). He also served as Chair (every other year) of the Joint Committee of the Agriculture Agreement Switzerland–EU (2002 to 2007).

Assessments

Quick Q&A on the preliminary readings (distributed and to be sent to the lecturer during the first lunchbreak)

- Carries a 20% weight in the final course grade
- The purpose of this quiz is to ensure that participants do all of the recommended readings in advance of class.

Group Presentation (Friday, 8 July 2022)

- Presentation of a topic “WTO/Agriculture and...” of your group’s choice
- Carries a 30% weight in the final course grade

Take-home assignment

- Open-book assignment released via Google Drive on Friday, after class
- One question will be legal and the other one economic; either or both may have a policy element
- To be submitted via ILIAS/Google drive before Saturday, 9 July, 20:00 pm CET.
- Carries a 50% weight in the final course grade

The lecturers reserve the right to add points for active class participation and for well-prepared participants, and to subtract points from unprepared or inactive participants.

Course Overview*

Date	Day	Time	Lecturer/s	Topic
4 July	Monday	10:00 12:00	Christian Häberli	GATT and WTO Agrifood Rules
		12:00 13:00	-	Quick understanding test
		14:00 16:00	BOTH	Preparation of Group Exercises
5 July	Tuesday	10:00 12:00	Ken Ash	Global Food Systems, Markets and Trade
		14:00 16:00	Christian Häberli	Agricultural policy space vs "case law" (incl. 1 hour in-class study)
6 July	Wednesday	10:00 12:00	Ken Ash	Agriculture & Trade Policy: Focus on Domestic Support & Public Stockholding
		14:00 16:00	Christian Häberli	Agricultural and food security (incl. 1 hour in-class study)
7 July	Thursday	10:00 12:00	Christian Häberli	Agriculture and sustainable development
		14:00 16:00	Ken Ash	Agriculture & Trade Policy: Impacts on the Environment (incl. 1 hour in-class study)
8 July	Friday	10:00 12:00	BOTH	Presentations of selected topics by groups/participants
		14:00 16:00	BOTH	Presentations (cont'd) and Summing Up
9 July	Saturday			Take-home assignment

* Lecturing times (and study times, and group work) will be discussed on Day 1, depending on participants' whereabouts, topical choices and preferences.

MONDAY, 4 JULY, 2022**Lecturer** **Christian Häberli (with Ken Ash in the afternoon)****Subject** **GATT and WTO Rules****10:00 The Regulation of Agriculture**

- WTO Agreements on Agriculture
 - Agriculture in the GATT
 - The Uruguay Round negotiations
 - The Agreement on Agriculture
 - Briefly: Related Agreements (SPS, TBT, TRIPS)
- Agricultural Development Provisions
- Agriculture in Regional Trade Agreements
 - EU RTAs
 - AfCFTA + RECs
- Agricultural FDI issues (“land grabbing” and “commercial agriculture”)
- Developments since 1995:
 - The Doha Negotiations, the Bali Decisions, the Nairobi Decisions, the Buenos Aires Non-Decisions
 - MC12

12:00 Quick understanding test based on preparatory readings**14:00 Preparation of Group Exercises (examples assisting your choice for a topic “WTO / Agriculture and...” - please address policy, legal and economic dimensions)**

- Policy Responses to Unexpected Shocks (COVID, invasion of Ukraine, etc.)
- Geo-political Threats to Multilateral Trade
- Food Security (e.g.):
 - How to design and manage food reserves
 - Risk management tools
 - Food aid
 - After Corona
 - After the war on Ukraine
- Climate change
- Water (and virtual water)
- Fish (food and feed)
- RTA (e.g. Brexit)
- Animal Welfare and Animal Rights
- Geographical Indications
- Health/Obesity/Malnutrition
- Renewable Energies/Biotech

- Specific Commodities e.g. Rice, Maize, Wheat, Palm Oil, Avocados, Beef
- Food Safety
- Human Rights e.g. Right to Food
- Gender and trade
- Labour Issues (forced labour, child labour)
- Building Resilient Supply Chains
- Reforming Environmentally Harmful Subsidies
- Digital Applications in Agriculture
- Enabling Carbon Farming

Compulsory Reading Material for the whole week (Law)

- (Excerpts from):
 - WTO, The WTO Agreements Series: Agriculture (https://www.wto.org/english/res_e/booksp_e/agric_agreement_series_3_e.pdf).
 - In the same series (https://www.wto.org/english/res_e/publications_e/wto_agree_series_e.htm) you find the official WTO view on Sanitary and Phytosanitary Measures (https://www.wto.org/english/res_e/booksp_e/agrmtseries4_sps_e.pdf) and the Technical Barriers to Trade (https://www.wto.org/english/res_e/publications_e/tbttotrade_e.pdf)
- (Much shorter, but not official):
 - Häberli, Christian, The WTO Agreements on Agriculture, and Climate change adaptation in food and agriculture. Chapter III.51 in Elgar Encyclopedia of International Economic Law (pp.468-470). Edward Elgar Publishing Ltd (2017)
 - Häberli, Christian, The Decision on Landlocked Developing Countries (LLDCs) and Net Food-Importing Developing Countries (NFIDCs). Chapter III.52 in Elgar Encyclopedia of International Economic Law (pp.470-471). Edward Elgar Publishing Ltd (2017)

TUESDAY, 5 JULY 2022**Lecturer** Ken Ash**Subject** **Global Food Systems, Markets, and Trade**

- What are global food systems and why are they getting so much attention today?
- How are agriculture markets changing? What are the trends in production, consumption, prices, trade flows, and trade policy?
- Do trade and global supply chains contribute to the resilience of global food systems – or do they pose increased risks?
- How have agricultural trade policies evolved in response to COVID-19?
- How might trade policies evolve in response to Russia's invasion of Ukraine?

Compulsory Reading Materials

OECD (2021), *Making Better Policies for Food Systems*, OECD Publishing, Paris
https://read.oecd-ilibrary.org/agriculture-and-food/making-better-policies-for-food-systems_ddfba4de-en#page1, pages 8-10

FAO (2021), *Food Systems Summit*, unpublished
<https://www.fao.org/3/ng896en/ng896en.pdf>

OECD-FAO (2021), *OECD-FAO Agricultural Outlook 2021-2030*, OECD Publishing, Paris
<https://doi.org/10.1787/19991142>, pages 17-19

FAO (2022), a series of current briefs on the food & agriculture implications of the war in Ukraine [to be updated] <https://www.fao.org/newsroom/briefing-notes/en>

Lecturer Christian Häberli**Subject** **Agricultural policy space vs “case law”**

WEDNESDAY, 6 JULY 2022**Lecturer** Ken Ash**Subject** **Agriculture & Trade Policy: Focus on Domestic Support & Public Stockholding**

- What do the data tell us about domestic support in agriculture – who provides support and who benefits?
- Why is public stockholding for food security a contentious issue at the WTO?
- What was decided at MC12, and what happens next?

Compulsory Reading Materials:

WTO Fact Sheet, *Domestic Support in Agriculture*, https://www.wto.org/english/tratop_e/agric_e/agboxes_e.htm

OECD (2021), *Agricultural Policy Monitoring and Evaluation*, OECD Publishing, Paris, https://doi.org/10.1787/22217371_pages_20-22_and_79-84

Lecturer Christian Häberli**Subject** **Agricultural and Food Security**

THURSDAY, 7 JULY 2022**Lecturer** Christian Häberli**Subject** Agriculture and Sustainable Development**Lecturer** Ken Ash**Subject** Agriculture & Trade Policy: Impacts on the Environment

- What do we know about the impacts of production and trade distorting domestic support on climate (i.e., greenhouse gas emissions) and on the environment (i.e., water, biodiversity, and land degradation)?
- Are there alternative policies that would be less trade distorting and less environmentally harmful?
- What was decided at MC12, and what happens next?

Compulsory Reading Materials:

Institute for International Trade (Adelaide), [to be provided, publication pending], *A synthesis report on the impact of production and trade distorting agriculture domestic support on the environment*

FRIDAY, 8 July 2022**Lecturers** Christian Häberli and Ken Ash**Subject** Group Presentations

Any Other Questions and Summing Up

SATURDAY, 9 JULY 2022**Take-home assignment**

Optional Materials for the whole week (Law)
(please also look at [Google Drive/ILIAS](#))

Asche, Frank. Impacts of climate change on the production and trade of fish and fishery products. (FAO – SOCO – 2018)

Bartels, Lorand. The Relationship between the WTO Agreement on Agriculture and the Agreement on Subsidies and Countervailing Measures (2015, available at SSRN and https://www.researchgate.net/publication/315336184_The_Relationship_between_the_WTO_Agreement_on_Agriculture_and_the_Agreement_on_Subsidies_and_Countervailing_Measures)

Bellemare, Marc (2014). Rising Food Prices, Food Price Volatility, and Social Unrest. *in American Journal of Agricultural Economics*, Volume 97, Issue 1, 1 January 2015, Pages 1–21, <https://doi.org/10.1093/ajae/aau038>

Blandford, David, Border and related measures in the context of adaptation and mitigation to climate change (FAO – SOCO – 2018)

CCSI, IIED, and IISD. Agricultural Investments under International Investment Law (Briefing Note 2018) at http://ccsi.columbia.edu/files/2018/10/CCSI-IIED-IISD_Agricultural-Investments-under-IIL.pdf

Cotula, Lorenzo, with Berger, Thierry. Legal empowerment in agribusiness investments: harnessing political economy analysis. London: LEGEND (2017). At <https://pubs.iied.org/X00175/?a=L+Cotula>

Creative Commons. AGRIFOOD ATLAS 2017: Facts and figures about the corporations that control what we eat. (Downloads *inter alia* at Heinrich-Böll-Stiftung, www.boell.de/agrifood-atlas)

Cui, Kuiper, van Meijl & Tabeau - Climate change and global market integration Implications (FAO – SOCO – 2018)

Dillon, Braian and Barrett, Christopher (2017). Agricultural factor markets in Sub-Saharan Africa: An updated view with formal tests for market failure. At <https://www.sciencedirect.com/science/article/pii/S0306919216303827?via%3Dihub>

Eyhorn, Frank et al. Sustainability in global agriculture driven by organic farming. *in 2 Nat Sustain* 253–255 (2019). At <https://doi.org/10.1038/s41893-019-0266-6>

Food Security Information Network (FSIN 2018). Global Report on Food Crises 2017. at <http://www.fsincop.net/global-network/global-report/en/>

Glauber, Joseph. Agricultural Trade Aid (November 2019). At <https://www.aei.org/research-products/report/agricultural-trade-aid-implications-and-consequences-for-us-global-trade-relationships-in-the-context-of-the-world-trade-organization/>

Glauber, Joseph. Negotiating Agricultural Trade in a New Policy Environment. IFPRI Discussion Paper 01831 (April 2019). At https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3381227

- Gödecke, Theda et al. (2018). The global burden of chronic and hidden hunger: Trends and determinants. At <https://www.sciencedirect.com/science/article/pii/S2211912417301578>
- Gonzalez, Carmen. Institutionalizing Inequality: the WTO, Agriculture and Developing Countries. Seattle University School of Law (2002)
- Graubner, Marten. Lost in space? The effect of direct payments on land rental prices (2017). *European Review of Agricultural Economics* Vol 45 (2) (2018) pp. 143–171 (doi:10.1093/erae/jbx027)
- Gstöhl, Sieglinde (2010). Blurring regime boundaries: uneven legalization of non-trade concerns in the WTO. *in Journal of International Trade Law and Policy*, Vol. 9 Issue: 3, pp.275-296, <https://doi.org/10.1108/14770021011075518>
- Häberli, Christian. Regional trade agreements and domestic labour market regulation (with Marion Jansen and José-Antonio Monteiro), ILO Employment Working Paper No. 120, 11 May 2012, and Book chapter in OECD/D. Lippoldt (Ed.), *Policy Priorities for International Trade and Jobs*, e-publication, available at: www.oecd.org/trade/icit , 2012, pp.287-326
- Häberli, Christian. Do WTO Rules Secure or Impair the Right to Food? in Melaku Desta and Joe McMahon (Eds), *Research Handbook on International Agricultural Trade*. Edward Elgar, Cheltenham/UK and Northampton/US (2012), pp.70-103
- Häberli, Christian. What's wrong with WTO rules applying to food security? in Rosemary Rayfuse and Nicole Weisfelt (eds), *The Challenge of Food Security*. Edward Elgar, Cheltenham/UK and Northampton/US (2012), pp.149-167
- Häberli, Christian. God, the WTO – and Hunger. in Krista Nadakavukaren Scheffer (Ed), *Poverty and the International Economic Law System: Duties to the Poor*, Cambridge University Press (2013), pp.79-106
- Häberli, Christian (2017). Adaptation of agricultural trade and investment rules to climate change (*in Mary Jane Angelo and Anél du Plessis (Eds.)*, *Research Handbook on Climate Change and Agriculture Law*. Chapter 10 at pp. 274-314. Edward Elgar, Cheltenham/UK and Northampton/US)
- Häberli, Christian and Fiona Smith. Food Security and Agri-Foreign Direct Investment in Weak States: Finding the Governance Gap to Avoid “Land Grab”. *in 77(2) Modern Law Review* 189–222 (2014) at <http://onlinelibrary.wiley.com/doi/10.1111/1468-2230.12062/pdf>
- Häberli, Christian. The Story of Community Preference for Food Security. Chapter 20 in Joe McMahon and Michael Cardwell (Eds.), *Research Handbook on EU Agriculture Law*. Edward Elgar, Cheltenham/UK and Northampton/US (2015), pp.437-462
- Häberli, Christian. Potential conflicts between agricultural trade rules and climate change treaty commitments. *The State of Agricultural Commodity Markets (SOCO) 2018: Background paper*. Rome, FAO, 2018. (https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3123036)
- Häberli, Christian. Seals and the Need for more Deference to Vienna by WTO Adjudicators. Fourth Biennial Global Conference of the Society of International Economic

Law (SIEL) Working Paper No 22 (8 July 2014; electronic copy available at:
<http://ssrn.com/abstract=2463680>)

Häberli, Christian. Agricultural Trade: How Bad Is the WTO for Development? in Markus Krajewski (Ed) *Critical Perspectives of International Economic Law*, in 7 (2016) *European Yearbook of International Economic Law* 103-117 (https://link.springer.com/chapter/10.1007/978-3-319-29215-1_5/fulltext.html)

Häberli, Christian. Brexit without WTO-Problems – for UK and for EU and for Global Business? 12/3 *Global Trade and Customs Journal* 87-91 (March 2017) (<http://www.kluwer-lawonline.com/toc.php?area=Journals&mode=bypub&level=5&values=Journals--Global+Trade+and+Customs+Journal~Volume+12+%282017%29>)

Häberli, Christian. International Economic Law Might Improve Water Governance in Peru. in *El derecho humano al agua, el derecho de las inversiones y el derecho administrativo. Cuartas Jornadas de Derecho de Aguas*. Armando Guevara Gil, Patricia Urteaga y Frida Segura (Eds). Pontificia Universidad Católica del Perú. pp.265-287 (2017)

Häberli, Christian. Right to Food and Right to Water: Are They the Same Challenge? in Benoît Girardin and Evelyne Fiechter-Widemann (Eds), *Blue Ethics: Ethical Perspectives on Sustainable, Fair Water Resources Use and Management*. Geneva: Globethics Network (2019, pp.45-50). Available at www.globethics.net/publications

Häberli, Christian. Please Make Avocados Sustainable Again! in *International Affairs Forum* (Online Journal published by Center for International Relations, Washington D.C. <https://www.ia-forum.org/Files/Spring%202019%20IA%20Forum%20Food%20and%20Water%20Security2.pdf>). Special Themed Issue: Food and Water Security. June 2019, pp. 44-47. www.ia-forum.org

Headey, Derek D. Food Prices and Poverty, *The World Bank Economic Review*, Volume 32, Issue 3, 1 October 2018, Pages 676–691, <https://doi.org/10.1093/wber/lhw064>

Hector Maletta. *Towards the end of hunger*. First ebook edition. (2016), Universidad del Pacifico Press. Abstract at https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2882004

Hertel, Climate Change, Agricultural Trade and Global Food Security (FAO – SOCO – 2018)

International Food Policy Research Institute (IFPRI 2018). 2018 Global Food Policy Report. Washington, DC: International Food Policy Research Institute. Full Report and Summary available at <https://doi.org/10.2499/9780896292970>

IFPRI (Babu and Shishodia). *Agribusiness Competitiveness: Applying Analytics, Typology, and Measurements to Africa* (2017). At https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3029346

IFPRI (Hosaena Ghebru Hagos and Stein Holden). *Links between Tenure Security and Food Security: The Case of Ethiopia* (2013) at <http://www.ifpri.org/publication/links-between-tenure-security-and-food-security>

Kim, Minju, and Lee, Hyo-young (2017). Looking Beyond the Doha Negotiations: A Possible Reform of the WTO Agricultural Subsidies Rules. *in Asian Journal of WTO & International Health Law and Policy*, Vol. 12, No. 1, pp. 171-200, March 2017. At https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2948229

Laborde, David et al.. Transforming Agriculture in Africa & Asia: What are the policy priorities? (IISD, 2018)

Lopian, R. 2018. Climate change, sanitary and phytosanitary measures and agricultural trade (FAO – SOCO – 2018)

Margulis, Matias (2018). Negotiating from the margins: how the UN shapes the rules of the WTO. *Review of International Political Economy* 25. 10.1080/09692290.2018.1447982. at: <https://www.researchgate.net/publication/323882243>

McMahon, J. A. and Melaku Geboye Desta (Eds) (2012). Research Handbook on the WTO Agriculture Agreement. Edward Elgar (UK/USA).

Tedesco, Ilaria. A holistic approach to agricultural risk management for improving resilience. PARM (2018) (https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3321233)

Schaufele, Brandon. Carbon Taxes and Cattle: Evidence From Canadian Feedlots (April 19, 2018). At <https://ssrn.com/abstract=3165735>

Schmidhuber, Josef et al (2018), The Global Nutrient Database: availability of macronutrients and micronutrients in 195 countries from 1980 to 2013. *in Lancet Planet Health* 2018/2: e353–68. At [https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196\(18\)30170-0/fulltext](https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196(18)30170-0/fulltext)

Sekhar, C.S.C.. Climate change and rice economy in Asia Implications for trade policy. Rome, FAO, 2018

Smith, Laurence G. et al. The greenhouse gas impacts of converting food production in England and Wales to organic products. *in Nature Communications* 10, Article 4641 (October 2019). At <https://www.nature.com/articles/s41467-019-12622-7>

Sky, Melissa Blue. The WTO, Agriculture, and Developing Countries: The Need for Trade Reforms. *in Sustainable Development Law & Policy*, Fall 2008, 41-42. At <https://digitalcommons.wcl.american.edu/sdlp/vol9/iss1/14/>

Tedesco, Ilaria. A holistic approach to agricultural risk management for improving resilience. Platform for Agricultural Risk Management, Working Paper #5, August 2018. At https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3321233

Zimmermann, A., Benda, J., Webber, H. and Jafari, Y.. Trade, food security and climate change: conceptual linkages and policy implications. (FAO – SOCO – 2018)

Optional Materials & References (global food systems, markets & trade)

WEF (2022), *Transforming Food Systems with Farmers: A Pathway for the EU* <https://www.weforum.org/reports/transforming-food-systems-with-farmers-a-pathway-for-the-eu>

Global Panel on Agriculture and Food Systems for Nutrition (2020), *Foresight 2.0: Future Food Systems: For people, our planet, and prosperity*, <https://foresight.glopan.org/>

Pathways Group (2021), *New Pathways for Progress in Multilateral Negotiations in Agriculture* <https://newpathwaysagric.files.wordpress.com/2021/05/new-pathways.pdf>

OECD (2022), *Economic and Social Impacts and Policy Implications of the War in Ukraine*, OECD Publishing, Paris <https://www.oecd.org/economic-outlook/> currently available, to be updated

OECD (2020) COVID-19 and the Food and Agriculture Sector: Issues and Policy Responses. OECD Policy Brief <https://www.oecd.org/coronavirus/policy-responses/covid-19-and-the-food-and-agriculture-sector-issues-and-policy-responses-a23f764b/>

World Bank (2020) A shock like no other. The impact of COVID-19 on commodity markets. Special Focus in the Commodity Markets Outlook.

Optional Materials & References (domestic support in agriculture)

Anderson, Kym, et al., (2021), *Impacts of Agricultural Domestic Supports on Developing Economies*, Report Commissioned by New Zealand's Ministry for Primary Industries, https://www.waikato.ac.nz/_data/assets/pdf_file/0010/775468/Anderson-et-al.-MPI-final-report.pdf

Brink, L. and Orden, D. (2020), *Taking stock and looking forward on domestic support under the WTO Agreement on Agriculture*, Commissioned Paper, vol.23, IATRC <https://iatrc.umn.edu/taking-stock-and-looking-forward-on-domestic-support-under-the-wto-agreement-on-agriculture/>

IFPRI (2019) Global Food Policy Report, pages 1-85, Washington DC: IFPRI.

Optional Materials & References (agriculture, trade, and the environment)

DeBoe, G. (2020), *Impacts of agricultural policies on productivity and sustainability performance in agriculture: A literature review*, OECD Food, Agriculture and Fisheries Papers, No. 141, OECD Publishing, Paris, <http://dx.doi.org/10.1787/6bc916e7-en>

FAO, UNDP, and UNEP (2021), *A Multi-Billion-Dollar Opportunity—Repurposing Agricultural Support to Transform Food Systems*, <https://www.unep.org/resources/repurposing-agricultural-support-transform-food-systems>

Gautam, Madhur; Laborde, David; Mamun, Abdullah; Martin, Will; Pineiro, Valeria; Vos, Rob (2022), *Repurposing Agricultural Policies and Support : Options to Transform Agriculture and Food Systems to Better Serve the Health of People, Economies, and the Planet*, World Bank, Washington, DC, <https://openknowledge.worldbank.org/handle/10986/36875>

Henderson, B., et al. (2022), *Soil carbon sequestration by agriculture: Policy options*, OECD Food, Agriculture and Fisheries Papers, No. 174, OECD Publishing, Paris, <https://doi.org/10.1787/63ef3841-en>

Henderson, B. et al. (2021), *Policy strategies and challenges for climate change mitigation in the Agriculture, Forestry and Other Land Use (AFOLU) sector*, OECD Food,

Agriculture and Fisheries Papers, No. 149, OECD Publishing,
Paris, <https://doi.org/10.1787/47b3493b-en>

IFAD (2021), Marchisio, Matteo and Mfalila, Kisa, *Promoting Sustainable Agrofood Systems to Combat Climate Change*, IFAD, Rome
<https://www.ifad.org/en/web/latest/-/promoting-sustainable-agrifood-systems-to-combat-climate-change>

WFO (2021), At COP26, *Farmers are the Solution to Climate Change*,
https://www.wfo-oma.org/wfo_news/cop26-farmers-are-the-solution-to-climatechange/

WTO (2021), *Mapping Paper: trade policies adopted to address climate change*, Information Brief No.1, Geneva https://www.wto.org/english/tratop_e/envir_e/climate_intro_e.htm

WTO (2020), *Trade and environment: what can we learn from trade policy reviews?*, Working paper, Geneva https://www.wto.org/english/res_e/reser_e/ersd202006_e.htm

WTO (2020), *Trade policies for a circular economy: what can we learn from WTO experience?* Working paper, Geneva
https://www.wto.org/english/res_e/reser_e/ersd202010_e.htm