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2023 G20 New Delhi Summit Interim Compliance Report

11 September 2023 to 19 May 2024

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6. Food and Agriculture: Investing in Food Systems

“Commit to accelerating innovations and investment focused on increasing agricultural productivity...to build more sustainable and climate-resilient agriculture and food systems.”

G20 New Delhi Leaders' Declaration

Assessment

	No Compliance	Partial Compliance	Full Compliance
Argentina			+1
Australia			+1
Brazil			+1
Canada			+1
China		0	
France			+1
Germany			+1
India	-1		
Indonesia			+1
Italy			+1
Japan		0	
Korea		0	
Mexico			+1
Russia		0	
Saudi Arabia	-1		
South Africa	-1		
Türkiye			+1
United Kingdom			+1
United States			+1
European Union			+1
Average		+0.50 (75%)	

Background

On 9 September 2023, at the New Delhi Summit, G20 leaders highlighted their commitment to addressing global food security and increasing efforts to create sustainable and climate-resilient agriculture solutions.¹⁰⁴⁷ The Food and Agriculture Organization (FAO) of the United Nations revealed that approximately 2.4 billion people experienced moderate to severe food insecurity in 2022 of which 900 million experienced severe food insecurity.¹⁰⁴⁸ Additionally, between 691 and 783 million individuals suffered from hunger in 2022, marking an upsurge of 122 million since 2019. Due to the substantive impact of food insecurity globally, the G20 has addressed food and agriculture at summits since 2008.

In recent summits, G20 leaders have reinforced the foundations laid in the Matera Declaration on Food Security, Nutrition, and Food systems in 2021.¹⁰⁴⁹ The Matera Declaration urged accelerated adaption towards sustainable and climate-resilient agriculture and food systems, as part of plans to achieve the United Nations 2030 Sustainable Development Goal to eradicate hunger.

¹⁰⁴⁷ G20 New Delhi Leaders' Declaration, G20 Research Group (Toronto) 9 September 2023. Access Date: 4 February 2024. <http://www.g20.utoronto.ca/2023/230909-declaration.html>

¹⁰⁴⁸ The State of Food Security and Nutrition in the World 2023, Food and Agriculture Organization of the United Nations (Rome) 12 December 2023. Access Date: 9 February 2024. <https://www.fao.org/3/cc3017en/cc3017en.pdf>

¹⁰⁴⁹ Matera Declaration on Food Security, Nutrition and Food Systems, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2021/Matera-Declaration.pdf>

At the 2008 Washington Summit, G20 leaders acknowledged their commitment to addressing multiple “critical challenges” including food insecurity.¹⁰⁵⁰

At the 2009 Pittsburgh Summit, G20 leaders called on the World Bank to establish “a multilateral trust fund to scale-up agricultural assistance to low-income countries.”¹⁰⁵¹ G20 leaders also asked the World Bank, regional development banks and international organizations to enhance food security through improved agricultural productivity and access to technologies.

At the 2010 Toronto Summit, G20 leaders recognized the launch of the Global Agriculture and Food Security Program to address food security commitments made at the Pittsburgh Summit.¹⁰⁵² G20 leaders also vowed to “harness the private sector for agricultural innovation” and reaffirmed their commitment to reform Multilateral Development Banks to address challenges related to food security.

At the 2011 Cannes Summit, G20 leaders committed to five objectives outlined in the June 2011 Action Plan on Food Price Volatility and Agriculture including increasing agricultural productivity, improving market transparency and strengthening international cooperation.¹⁰⁵³ G20 leaders also committed to supporting regional initiatives to increase agricultural productivity and innovation in the Horn of Africa.

At the 2012 Los Cabos Summit, G20 leaders reaffirmed their commitment to “fight hunger” through initiatives such as the Tropical Agriculture Platform, the Platform for Agricultural Risk Management, research programs for wheat, rice and corn, regional emergency food reserves and the Global Agriculture and Food Security Program.¹⁰⁵⁴ G20 leaders also encouraged the development of new technologies to improve agricultural productivity and build more sustainable and climate-resilient agricultural practices.

At the 2013 St. Petersburg Summit, G20 leaders reaffirmed their commitment towards previous food and agriculture commitments made at G20 Summits.¹⁰⁵⁵ They also endorsed the St. Petersburg Development Outlook which included, in part, actions to advance food security and sustainable food production.

At the 2014 Brisbane Summit, G20 leaders announced the G20 Food Security and Nutrition Framework to “[facilitate] responsible investment” and human resource development in food systems and to increase sustainable agricultural productivity.¹⁰⁵⁶

At the 2015 Antalya Summit, G20 leaders shared the G20 Action Plan on Food Security and Sustainable Food Systems.¹⁰⁵⁷ The Action Plan outlined the G20’s commitment to improve food

¹⁰⁵⁰ Declaration of the Summit on Financial Markets and the World Economy, G20 Information Centre (Toronto) 15 November 2008. Access Date: 12 February 2024. <http://www.g20.utoronto.ca/2008/2008declaration1115.html>

¹⁰⁵¹ G20 Leaders Statement: The Pittsburgh Summit, G20 Information Centre (Toronto) 25 September 2009. Access Date: 3 February 2024. <http://www.g20.utoronto.ca/2009/2009communiqued0925.html>

¹⁰⁵² The G20 Toronto Summit Declaration, G20 Information Centre (Toronto) 27 June 2010. Access Date: 3 February 2024. <http://www.g20.utoronto.ca/2010/to-communiqued.html>

¹⁰⁵³ Cannes Summit Final Declaration - Building Our Common Future: Renewed Collective Action for the Benefit of All, G20 Information Centre (Toronto) 4 November 2011. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2011/2011-cannes-declaration-111104-en.html>

¹⁰⁵⁴ G20 Leaders Declaration, G20 Information Centre (Toronto) 19 June 2012. Access Date: 4 February 2024. <http://www.g20.utoronto.ca/2012/2012-0619-loscabos.html>

¹⁰⁵⁵ G20 Leaders' Declaration, G20 Information Centre (Toronto) 6 September 2013. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2013/2013-0906-declaration.html>

¹⁰⁵⁶ G20 Food Security and Nutrition Framework, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. http://www.g20.utoronto.ca/2014/g20_food_security_nutrition_framework.pdf

¹⁰⁵⁷ G20 Action Plan on Food Security and Sustainable Food Systems, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2015/G20-Action-Plan-on-Food-Security-and-Sustainable-Food-Systems.pdf>

security through investment in food systems, sustainable and environmentally friendly agricultural development and reducing food loss.

At the 2016 Hangzhou Summit, G20 leaders reaffirmed their commitment to improve food security and pursue sustainable agricultural development.¹⁰⁵⁸

At the 2017 Hamburg Summit, G20 leaders committed to improving food security and water sustainability through sustainable agricultural production and “[efficient] water and water-related ecosystems.”¹⁰⁵⁹ G20 leaders also called for increased cooperation in Information and Communication Technology (ICT) for agriculture.

At the 2018 Buenos Aires Summit, G20 leaders reaffirmed their commitment to addressing food security challenges and ending world hunger, in part, through sustainable agricultural practices and enhanced cooperation to develop climate-resilient and sustainable agriculture.¹⁰⁶⁰

At the 2019 Osaka Summit, G20 leaders acknowledged the importance of technologies such as ICT and Artificial Intelligence, alongside enhanced collaboration and training, to develop “sustainable, science-based and resilient agro-food value chains.”¹⁰⁶¹

At the 2020 Riyadh Summit, G20 leaders endorsed the G20 Riyadh Statement to Enhance Implementation of Responsible Investment in Agriculture and Food Systems, reaffirming their commitment to food security, nutrition and agricultural sustainability.¹⁰⁶²

At the 2021 Rome Summit, G20 leaders endorsed the Matera Declaration on Food Security, Nutrition and Food Systems which includes calls to action to invest in sustainable food systems and develop climate-resilient agriculture and food systems.¹⁰⁶³ G20 leaders also encouraged partners to collaborate and join the FAO’s Food Coalition to “to respond to the impacts of Covid-19 on food security and nutrition.”¹⁰⁶⁴

At the 2022 Bali Summit, G20 leaders reaffirmed their commitment to take coordinated action to address food and agriculture-related challenges such as hunger and malnutrition by calling for an “accelerated transformation towards sustainable and resilient agriculture and food systems and supply chains.”¹⁰⁶⁵ G20 leaders also pledged to support investment in research and development and innovation to improve agricultural productivity and sustainability.

At the 2023 New Delhi Summit, G20 leaders reaffirmed their commitment towards global food security as part of the G20 Deccan High-Level Principles on Food Security and Nutrition 2023. Specifically, they agreed to enhance research on “climate-resilient and nutritious grains” including

¹⁰⁵⁸ G20 Leaders’ Communiqué: Hangzhou Summit, G20 Information Centre (Toronto) 5 September 2016. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2016/160905-communiqué.html>

¹⁰⁵⁹ G20 Leaders’ Declaration: Shaping an Interconnected World, G20 Information Centre (Toronto) 8 July 2017. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2017/2017-G20-leaders-declaration.html>

¹⁰⁶⁰ G20 Leaders’ Declaration: Building Consensus for Fair and Sustainable Development, G20 Information Centre (Toronto) 1 December 2018. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2018/2018-leaders-declaration.html>

¹⁰⁶¹ G20 Osaka Leaders’ Declaration, G20 Information Centre (Toronto) 29 June 2019. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2019/2019-g20-osaka-leaders-declaration.html>

¹⁰⁶² Leaders’ Declaration, G20 Information Centre (Toronto) 21 November 2020. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2020/2020-g20-leaders-declaration-1121.html>

¹⁰⁶³ Matera Declaration on Food Security, Nutrition and Food Systems, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2021/Matera-Declaration.pdf>

¹⁰⁶⁴ G20 Rome Leaders’ Declaration, G20 Information Centre (Toronto) 31 October 2021. Access Date: 13 February 2024. <http://www.g20.utoronto.ca/2021/211031-declaration.html>

¹⁰⁶⁵ G20 Bali Leaders’ Declaration, G20 Information Centre (Toronto) 16 November 2022. Access Date: 3 February 2024. <http://www.g20.utoronto.ca/2022/221116-declaration.html>

“millets, quinoa, sorghum, and other traditional crops including rice, wheat and maize” to address food insecurity.¹⁰⁶⁶ G20 leaders also committed to supporting developing countries to enhance their food security and encouraged investments in “sustainable and resilient agriculture and food systems.”

Commitment Features

At the 2023 New Delhi Summit, leaders committed to “accelerating innovations and investment focused on increasing agricultural productivity...to build more sustainable and climate-resilient agriculture and food systems.”¹⁰⁶⁷ This commitment can be broken down into two dimensions with two instruments: 1) accelerating innovations and 2) accelerating investment, to achieve two welfare targets: 1) increase agricultural productivity and 2) build more sustainable and climate-resilient agriculture and food systems. To achieve full compliance, G20 members must take strong action on both instruments and in a way that meets the two welfare targets.

Definitions and Concepts

“Accelerating” is understood to mean “increasing in speed or rate of occurrence.”¹⁰⁶⁸

“Innovation” is understood to mean “the implementation of a new or significantly improved product (good or service), or process which derives from creative ideas, technological progress, a new marketing method, a new organizational method in business practices, workplace organization or external relations.”¹⁰⁶⁹ “Innovation covers a wide range of domains with science and technology as the core.”

“Investment” is understood to mean “the act of putting money, effort, time etc. into something” with the aim of gaining an advantage.¹⁰⁷⁰

“Increasing” is understood to mean “additional efforts to an old commitment,” in this case pertaining to agricultural productivity.¹⁰⁷¹ This “should not be interpreted as adding new efforts in new ways.”

“Agricultural” refers to practices “used for farming or relating to farming.”¹⁰⁷² “Agriculture” is understood to mean “the science, art, or practice of cultivating the soil, producing crops, and raising livestock and in varying degrees the preparation and marketing of the resulting products.”¹⁰⁷³

“Sustainable” is understood to mean practices that cause “little or no damage to the environment and therefore [are] able to continue for a long time.”¹⁰⁷⁴

¹⁰⁶⁶ G20 New Delhi Leaders' Declaration, G20 Information Centre (Toronto) 9 September 2023. Access Date: 4 February 2024. <http://www.g20.utoronto.ca/2023/230909-declaration.html>

¹⁰⁶⁷ G20 New Delhi Leaders' Declaration, G20 Information Centre (Toronto) 9 September 2023. Access Date: 4 February 2024. <http://www.g20.utoronto.ca/2023/230909-declaration.html>

¹⁰⁶⁸ Accelerating, Merriam-Webster (Springfield) n.d. Access Date: 4 February 2024. <https://www.merriam-webster.com/dictionary/accelerating>

¹⁰⁶⁹ Compliance Coding Manual for International Institutional Commitments, Global Governance Program (Toronto) 12 November 2020. Access Date: 4 February 2024. http://www.g7.utoronto.ca/compliance/Compliance_Coding_Manual_2020.pdf

¹⁰⁷⁰ Investment, Cambridge Dictionary (Cambridge) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/investment>

¹⁰⁷¹ Compliance Coding Manual for International Institutional Commitments, Global Governance Program (Toronto) 12 November 2020. Access Date: 4 February 2024. http://www.g7.utoronto.ca/compliance/Compliance_Coding_Manual_2020.pdf

¹⁰⁷² Agricultural, Cambridge Dictionary (Cambridge) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/agricultural>

¹⁰⁷³ Agriculture, Merriam-Webster (Springfield) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/agricultural?q=agricultural+>

¹⁰⁷⁴ Sustainable, Cambridge Dictionary (Cambridge) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/sustainable>

“Climate-resilient” is understood to mean “the capacity of social, economic and ecosystems to cope with a hazardous event or trend or disturbance, responding or reorganising in ways that maintain their essential function, identity and structure.”¹⁰⁷⁵

“Food systems” is understood to mean “the elements and activities related to producing and consuming food, and their effects, including economic, health, and environmental outcomes.”¹⁰⁷⁶ “The food system is composed of sub-systems (e.g. farming system, waste management system, input supply system, etc.) and interacts with other key systems (e.g. energy system, trade system, health system, etc.).”¹⁰⁷⁷ Given this, “structural change in the food system might originate from a change in another system; for example, a policy promoting more biofuel in the energy system will have a significant impact on the food system.”

“Sustainable agriculture” refers to agriculture that “meet the needs of present and future generations, while ensuring profitability, environmental health, and social and economic equity.”¹⁰⁷⁸ Sustainable agriculture also contributes to global food objectives such as Zero Hunger and the Sustainable Development Goals by focusing on “all four pillars of food security – availability, access, utilization and stability – and the dimensions of sustainability (environmental, social and economic).”

“Sustainable food systems” “[deliver] food security and nutrition” in an economically, socially and environmentally friendly way.¹⁰⁷⁹ In this sense, economic impacts include “profits, jobs/incomes, tax revenues [and] job supply,” social impacts include “added value distribution,” culturally aware policies, “nutrition and health, workers rights and safety [and] animal welfare while environmental impacts include carbon and water footprints, animal, planet and soil health, “food loss and waste, biodiversity [and] toxicity.” To be sustainable, food systems must not negatively affect any of the three aforementioned elements.

“Climate-resilient agriculture,” also called “climate-smart agriculture” refers to “an approach that helps guide actions to transform agri-food systems towards green and climate resilient practice.”¹⁰⁸⁰ “It aims to tackle three main objectives: sustainably increasing agricultural productivity and incomes; adapting and building resilience to climate change; and reducing and/or removing greenhouse gas emissions, where possible.” Climate-resilient agriculture also contributes to global objectives such as the Sustainable Development Goals and Paris Agreement.

“Climate resilient food systems” are centered around many of the same objectives as climate-resilient agriculture focusing on sustainable food production and consumption and building resilience towards climate change.¹⁰⁸¹ However, unlike climate-resilient agriculture, climate-resilient food systems also consider concurrent issues such as “hunger, ill health linked to diet, food insecurity, threats from new diseases, and antimicrobial resistance.” Thus, climate-resilient food systems rely on research on “planet,

¹⁰⁷⁵ Climate Change 2023 Synthesis Report: Summary for Policymakers, Intergovernmental Panel on Climate Change (Geneva) n.d. Access Date: 4 February 2024.

https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_SPM.pdf

¹⁰⁷⁶ Making Better Policies for Food Systems, Organisation for Economic Co-operation and Development (Paris) n.d. Access Date: 4 February 2024. <https://www.oecd-ilibrary.org/sites/ddfba4de-en/index.html?itemId=/content/publication/ddfba4de-en>

¹⁰⁷⁷ Sustainable food systems, Food and Agriculture Organization of the United Nations (Rome) n.d. Access Date: 8 March 2024. <https://www.fao.org/3/ca2079en/CA2079EN.pdf>

¹⁰⁷⁸ Sustainable Food and Agriculture, Food and Agriculture Organization of the United Nations (Rome) n.d. Access Date: 8 March 2024. <https://www.fao.org/sustainability/en>

¹⁰⁷⁹ Sustainable food systems, Food and Agriculture Organization of the United Nations (Rome) n.d. Access Date: 8 March 2024. <https://www.fao.org/3/ca2079en/CA2079EN.pdf>

¹⁰⁸⁰ Climate-Smart Agriculture, Food and Agriculture Organization of the United Nations (Rome) n.d. Access Date: 8 March 2024. <https://www.fao.org/climate-smart-agriculture/en/>

¹⁰⁸¹ Climate-Resilient Food Systems, International Development Research Centre (Ottawa) n.d. Access Date: 8 March 2024. <https://idrc-crdd.ca/en/program/climate-resilient-food-systems>

human, and animal health alongside environmental, societal, and economic drivers that improve productivity and sustainability, reduce losses and waste, and reduce zoonotic and pandemic threats.”

General Interpretive Guidelines

Full compliance, or a score of +1, will be given to G20 members who have taken strong action within the compliance period to increase agricultural productivity through 1. accelerating innovations and investments that build 2) sustainable agriculture and food systems and 3) climate-resilient agriculture and food systems. These two parts can be further divided into the following elements: 1) building sustainable agriculture, 2) building sustainable food systems, 3) building climate-resilient agriculture and 4) building climate-resilient food systems.

In order to achieve full compliance, G20 members must take strong action across most sub-components of both commitment overarching dimensions. There are six sub-parts. Thus, for full compliance members must take strong action in at least four, i.e. over 50% or the majority, of these six sub-parts.

Examples of strong actions include legislation, policy or financial or other incentives, such as public-private partnerships, that facilitate an innovation, such as drought-resistant seed strains, and investment, such as funds for climate-smart agriculture, to increase sustainable and climate-resilient agricultural productivity. Less than strong, or weaker, actions include establishing a working group, attending meetings, verbal declarations of support, taking part in information sharing networks, and the like.

As per the definitions and concepts section, this report distinguishes between “sustainable” and “climate-resilient,” as well as “agriculture” and “food systems.”

Agriculture is understood as the food itself, i.e. maize, wheat, cattle, and efforts to increase the volume or efficiency (productivity) of these foods.

Food systems is understood as the entire network that makes up the sector, i.e. supply chains, labour, waste management, crop rotation management.

Climate-resilient refers to any action that either mitigates emissions or supports adaptation and resilience, i.e. lowering emissions from fertilizers, diversified plant-based crops, researching and using drought, flood or heat resistant strains of seed, measures to decrease emissions from animal agriculture, improving soil health and soil ability to store carbon, “climate-smart” agriculture that addresses the biodiversity-climate-food symbiosis.

Sustainable will include social, economic and environmental factors beyond emissions control and climate resilience, i.e. nutrition, women’s economic autonomy, chemical pollution, controlling the spread of zoonotic diseases, investing in greenhouses, research and use of less environmentally harmful pesticides, developing water-smart technologies that conserve water, food loss and waste.

Partial compliance, or a score of 0, will be assigned to G20 members who have taken strong action across at least 50 per cent of the commitment criteria. Actions may include at least three strong actions combined with weak actions across a few criteria. Taking weak action across most of the criteria will also constitute partial compliance.

Non-compliance, or a score of -1, will be assigned if the G20 member has not taken any action within the compliance period to accelerate innovations or investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems or the G20 member has only taken weak action in a few criteria or the G20 member has taken actions explicitly and directly antithetical to the commitment.

Scoring Guidelines

-1	The G20 member has NOT taken any action to accelerate innovations or investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems OR has only taken weak action towards three or fewer of the commitment criteria OR has taken actions directly and explicitly antithetical to the commitment.
0	The G20 member has taken action across at least 50 per cent of the commitment criteria including at least three strong actions OR the G20 member has taken weak action across most of the commitment criteria.
+1	The G20 member has taken strong action across most, at least four, of the criteria of the commitment to accelerate innovations and investment aimed at enhancing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

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Argentina: +1

Argentina has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 1 December 2023, Argentina endorsed the United Arab Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action at the 28th United Nations Climate Conference in Dubai.¹⁰⁸² The declaration aims to promote sustainable agriculture and food systems and climate-resilient food systems while addressing world hunger.

On 28 December 2023, the National Service of Health and Agri-Food Quality (SENASA) intensified its inspection of poultry farms as part of its efforts to prevent Highly Pathogenic Avian Influenza.¹⁰⁸³ Alongside this, Senasa ordered the depopulation of three poultry establishments as a precautionary measure.

On 29 December 2023, Secretary of Agriculture, Livestock and Fisheries Fernando Vilella and Director General of the International Atomic Energy Agency (IAEA) Rafael Grossi signed a Memorandum of Understanding to address food security in Argentina.¹⁰⁸⁴ IAEA will coordinate with the Bioeconomy Secretariat and SENASA to facilitate equipment and training to address zoonotic diseases, manage pest control and research “renewable carbon in biobased materials.” Ultimately, this will result in better quality products that are more fit for international export.

On 5 January 2024, the Secretariat of Agriculture, Livestock and Fisheries of the Ministry of Economy authorized the marketing of four genetically modified yeasts with the hopes of improving the

¹⁰⁸² COP28 Presidency Puts Food Systems Transformations on Global Climate Agenda as More Than 130 World Leaders Endorse Food and Agriculture Production, COP28 (Dubai) 1 December 2023. Access Date: 12 April 2024.

<https://www.cop28.com/en/news/2023/12/COP28-UAE-Presidency-puts-food-systems-transformation>; COP28 UAE Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action, COP28 (Dubai) n.d. Access Date: 12 April 2024. <https://www.cop28.com/en/food-and-agriculture>

¹⁰⁸³ Influenza aviar: El Senasa profundizó la fiscalización en granjas avícolas, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 28 December 2023. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.argentina.gob.ar/noticias/influenza-aviar-el-senasa-profundizo-la-fiscalizacion-en-granjas-avicolas>

¹⁰⁸⁴ Se firmó un Memorandum de entendimiento entre el Secretario Vilella y el Director General del Organismo Internacional de Energía Atómica, Rafael Grossi, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 29 December 2023. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.argentina.gob.ar/noticias/se-firmo-un-memorandum-de-entendimiento-entre-el-secretario-vilella-y-el-director-general>

production of bioethanol from grain fermentation.¹⁰⁸⁵ This initiative serves as an innovative and sustainable way to improve bioethanol production while minimizing costs and carbon emissions. This initiative is expected to boost the national economy of Argentina.

On 24 January 2024, SENASA implemented the mandatory vaccination against equine encephalomyelitis in the East and West for all horses over two months old, within the framework of the health emergency due to the disease established by Resolution 1219/2023.¹⁰⁸⁶ This policy aims to avoid the negative implications of the virus by promoting animal welfare and reducing agricultural production losses.

On 26 January 2024, the Ministry of Agriculture, Livestock and Fisheries approved the yeast *Saccharomyces cerevisiae* strain Fermboost MR through Provision 1/2024.¹⁰⁸⁷ The newly licensed yeast will be used in the production of bioethanol from the cultivation of maize resulting in increased performance and productivity in the ethanol biosynthesis process.

On 30 January 2024, Secretary Vilella and Undersecretary of Agri-Food Markets and International Negotiations Agustín Tejeda agreed on a long-term agricultural strategy with the United Nations Development Program's Environment and Sustainable Development coordinator María Eugenia Di Paola.¹⁰⁸⁸ This strategy aims to improve land use and the development of good agricultural practices.

On 2 February 2024, the Ministry of Agriculture, Livestock and Fisheries approved the mhyosphere PCV ID vaccine which aims to protect pigs against mycoplasma hyopneumoniae and porcine circovirus.¹⁰⁸⁹ This vaccine will allow for the protection of pigs against respiratory issues, growth delays and death. Thus, it serves as an innovative solution to ensure food safety and the well-being of pigs.

On 7 February 2024, the Ministry of Agriculture, Livestock and Fisheries authorized the marketing of a new variety of soybeans with genetic modifications.¹⁰⁹⁰ Undersecretary of Food, Bioeconomy and Regional Development Pablo Nardone stated that the permit will allow for increased imports of soybeans from countries like Brazil or Paraguay while enabling Argentina to fully utilize its production

¹⁰⁸⁵ Aprueban la comercialización de las primeras levaduras genéticamente modificadas (GM) para mejorar la producción de bioetanol en la Argentina, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 5 January 2024. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.argentina.gob.ar/noticias/aprueban-la-comercializacion-de-las-primeras-levaduras-geneticamente-modificadas-gm-para>.

¹⁰⁸⁶ Encefalomielititis equinas: Senasa estableció la vacunación obligatoria en todo el territorio, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 22 January 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.argentina.gob.ar/noticias/encefalomielititis-equinas-senasa-establecio-la-vacunacion-obligatoria-en-todo-el-territorio>

¹⁰⁸⁷ Argentina fortalece la producción de biocombustibles: Nueva levadura autorizada, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 26 January 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.argentina.gob.ar/noticias/argentina-fortalece-la-produccion-de-biocombustibles-nueva-levadura-autorizada>

¹⁰⁸⁸ Vilella acordó estrategia de largo plazo con el Programa de las Naciones Unidas para el Desarrollo (PNUD), Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 30 January 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.argentina.gob.ar/noticias/vilella-acordo-estrategia-de-largo-plazo-con-el-programa-de-las-naciones-unidas-para-el>

¹⁰⁸⁹ Avance en la sanidad porcina argentina: Se autoriza la vacuna Mhyosphere, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 2 February 2024. Translation provided by Google Translate. Access date: 18 March 2024. <https://www.argentina.gob.ar/noticias/avance-en-la-sanidad-porcina-argentina-se-autoriza-la-vacuna-mhyosphere>

¹⁰⁹⁰ Nueva aprobación comercial de un producto biotecnológico, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 7 February 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.argentina.gob.ar/noticias/nueva-aprobacion-comercial-de-un-producto-biotecnologico>

capacity. Moreover, the new product allows for protection against lepidoptera insects in-turn reducing the dependence of insecticides.

On 27 February 2024, the Ministry of Agriculture, Livestock and Fisheries approved trials of genetically modified sugar cane which was developed by researchers from the Agroindustrial Experimental Station Bishop Colombres in Tucumán.¹⁰⁹¹

On 5 March 2024, Secretary Vilella hosted a meeting for the Southern Agricultural Council which brought together ministers from Chile, Paraguay, Uruguay, Brazil and others.¹⁰⁹² At the meeting, ministers accepted “the Declaration on the Estimation of Greenhouse Gas Measurements” which focuses on joint cooperation to develop sustainable food production practices that take into account greenhouse gas emissions and removals.

On 6 March 2024, Undersecretary Nardone announced the authorization of an innovative soybean variety that is less resistant to herbicides and can be managed with modern herbicides.¹⁰⁹³ When combined with other agricultural practices such as crop rotation, this will ensure sustainable production and prevent pests like *Heterodera glycines* from damaging the soybean crops.

On 6 March 2024, the Secretariat of Bioeconomy approved genetically modified yeast to produce bioethanol from corn, “marking the sixth genetically modified microorganism authorized by the Secretariat” in 2024.¹⁰⁹⁴ The approval of this yeast hopes to increase bioethanol production by between 21 and 24 million liters. This is valuable because bioethanol hardly generates net carbon emissions since the carbon released “was previously captured by the plant during photosynthesis.”

On 19 March 2024, Secretary Vilella attended the inauguration of Argentina’s first insect breeding bioplant called Procens.¹⁰⁹⁵ Procens will feed food waste to natural flies to accelerate the composting process and produce proteins, quality oils for animal feeds and “to regenerate soils and improve [crop] yields.” Procens will ensure that these products are safe and environmentally friendly.

Argentina has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Argentina has exhibited various commitments with respect to the approval of vaccines that allow for the improvement of animal welfare and economic activity. In addition, the various developments in the field of biotechnology allow for more climate-friendly agriculture in Argentina.

¹⁰⁹¹ Agricultura aprobó nuevos ensayos de una caña de azúcar genéticamente modificada, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 27 February 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.argentina.gob.ar/noticias/agricultura-aprobo-nuevos-ensayos-de-una-cana-de-azucar-geneticamente-modificada>

¹⁰⁹² Vilella es el nuevo presidente pro tempore del Consejo Agropecuario del Sur (CAS), Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 5 March 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.argentina.gob.ar/noticias/vilella-es-el-nuevo-presidente-pro-tempore-del-consejo-agropecuaria-del-sur-cas>

¹⁰⁹³ Una nueva variedad de soja ha sido autorizada para su comercialización en el país, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 6 March 2024. Translation provided by Google Translate. Access Date: 11 April 2024. <https://www.argentina.gob.ar/noticias/una-nueva-variedad-de-soja-ha-sido-autorizada-para-su-comercializacion-en-el-pais>

¹⁰⁹⁴ Se autorizó la comercialización de una nueva levadura que optimiza la producción de bioethanol, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 6 March 2024. Translation provided by Google Translate. Access Date: 19 March 2024. <https://www.argentina.gob.ar/noticias/se-autorizo-la-comercializacion-de-una-nueva-levadura-que-optimiza-la-produccion-de>

¹⁰⁹⁵ El Gobierno Nacional presente en la inauguración de la primera bioplanta cría insectos del país, Ministerio de Economía and Secretaría de Bioeconomía (Buenos Aires) 19 March 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://www.argentina.gob.ar/noticias/el-gobierno-nacional-presente-en-la-inauguracion-de-la-primera-bioplanta-cria-insectos-del>

The activity of the Ministry of Agriculture exhibits much dedication to develop enhanced agricultural productivity within the country.

Thus, Argentina receives a score of +1.

Analyst: Therese Angeline Reyes

Australia: +1

Australia has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 2 December 2023, Australia announced their endorsement of the Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action alongside over 130 countries at the United Nations Climate Change Conference.¹⁰⁹⁶ The declaration commits parties, including Australia, to integrate food into their climate plans.

On 8 December 2023, Australia announced AUD100 million in funding to enhance climate resilience in the Pacific region.¹⁰⁹⁷ Funding will be provided to the Pacific Resilience Facility to support locally led solutions for climate adaptation.

On 13 December 2023, the Department of Climate Change, Energy, the Environment and Water announced the five winners of the Carbon Farming Outreach Program grant.¹⁰⁹⁸ Over AUD17 million in funding will be divided between the winners to enable them to train Australian farmers and land managers about climate-resilient practices to manage greenhouse gas emissions.

On 22 January 2024, the Department of Climate Change, Energy, the Environment and Water announced AUD9 million in funding under Round 2 of Stage 3 of the Methane Emissions Reduction in Livestock program.¹⁰⁹⁹ Funding aims to enable developments to reduce methane emissions from grazing livestock.

On 8 February 2024, the Department of Agriculture, Fisheries and Forestry launched the National Biosecurity Strategy Implementation Plan.¹¹⁰⁰ The plan was developed in coordination with the National Biosecurity Strategy Implementation Committee and Working Group, which include government representatives, “plant and animal industries, freight and logistics organisations, environmental groups, research organisations and a First Nations representative body.” The plan instructs the strategy’s planning until 2032.

¹⁰⁹⁶ Australia endorses Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action, Department of Agriculture, Fisheries and Forestry (Canberra) 2 December 2023. Access Date: 16 March 2024. <https://www.agriculture.gov.au/about/news/australia-endorses-emirates-declaration>

¹⁰⁹⁷ COP28: Australia announces support for the Pacific, Department of Climate Change, Energy, the Environment and Water (Canberra) 8 December 2023. Access Date: 12 April 2024. <https://www.dcceew.gov.au/about/news/cop28-australia-announces-support-for-pacific>

¹⁰⁹⁸ Carbon Farming Outreach Program grant recipients selected, Department of Climate Change, Energy, the Environment and Water (Canberra) 13 December 2023. Access Date: 12 April 2024. <https://www.dcceew.gov.au/about/news/carbon-farming-outreach-program-grant-recipients-selected>

¹⁰⁹⁹ Funding available for solutions to reduce livestock emissions, Department of Climate Change, Energy, the Environment and Water (Canberra) 22 January 2024. Access Date: 12 April 2024. <https://www.dcceew.gov.au/about/news/funding-available-solutions-reduce-livestock-emissions>

¹¹⁰⁰ National Biosecurity Strategy Implementation Plan launches, Department of Agriculture, Fisheries and Forestry (Canberra) 4 March 2024. Access Date: 16 March 2024. <https://www.agriculture.gov.au/about/news/national-biosecurity-implementation-plan-launches>

On 26 February 2024, the Cairns Group, chaired by Australia, welcomed Ukraine into the group.¹¹⁰¹ The coalition of 20 agricultural fair-trading countries met to discuss priorities in improving long-term global food security and agricultural reform before the World Trade Organization’s meeting of trade ministers in Abu Dhabi.

On 26 February 2024, Australia attended the three-day conference of Codex countries in Fiji where members engaged in discussions about improving food control systems in the South-West Pacific.¹¹⁰² In part, members discussed improving “linkages in the regional food regulatory landscape” and “supporting new work on standards for indigenous foods” where there is an identified food safety or trade need.

On 28 February 2024, Minister for Agriculture, Fisheries and Forestry Murray Watt declared a new Sustainable Biosecurity Funding Advisory Panel to supervise the AUD1 billion Sustainable Biosecurity Funding model.¹¹⁰³ The panel will meet three times a year to enhance transparency and equity while enabling industry professionals to have input on biosecurity priorities.

On 4 March 2024, the Department of Agriculture, Fisheries and Forestry announced AUD45 million in funding for Partnerships and Innovation grants and AUD9 million for Capacity Building grants for climate-smart agriculture.¹¹⁰⁴ Funding will support adoption of climate-resilient and climate-smart agricultural practices, allow for the development of climate-resilient technologies, support “new practices for sustainable grazing, cropping systems and pasture management” and allow for the protection of natural capital and biodiversity. The grants, as part of the Climate-Smart Agriculture Program aim to improve agricultural productivity and sustainability as well as competitiveness.

On 5 March 2024, Minister for Trade and Tourism Don Farrell stated that the Australian government would be investing over AUD19 million in a programme part of the Australia-Southeast Asia Business Exchange at the special summit of Australia and the Association of South East Asian Nations.¹¹⁰⁵ The programme aims to increase trade between Australia and Southeast Asia, including for agriculture.

On 20 March 2024, the Department of Agriculture, Fisheries and Forestry invested an additional AUD1.7 million into the Rural Financial Counselling Service to support agricultural regions affected by severe weather events and commodity downturns.¹¹⁰⁶ The funding will assist small-scale producers and businesses to access independent financial counselling.

¹¹⁰¹ Australia welcomes Ukraine to the Cairns Group, Australian Government (Canberra) 26 February 2024. Access Date: 16 March 2024. <https://www.trademinister.gov.au/minister/don-farrell/media-release/australia-welcomes-ukraine-cairns-group>

¹¹⁰² Enhancing food control systems in the South West Pacific, Department of Agriculture, Fisheries and Forestry (Canberra) 4 March 2024. Access Date: 12 April 2024. <https://www.agriculture.gov.au/about/news/enhancing-food-control-systems-south-west-pacific>

¹¹⁰³ New Sustainable Biosecurity Funding Advisory Panel locks in transparency, Australian Government (Canberra) 28 February 2024. Access Date: 15 March 2024. <https://minister.agriculture.gov.au/watt/media-releases/sustainable-biosecurity-funding-model>

¹¹⁰⁴ Apply for Climate-Smart Agriculture grants to support Aussie farmers, Department of Agriculture, Fisheries and Forestry (Canberra) 4 March 2024. Access Date: 12 April 2024. <https://www.agriculture.gov.au/about/news/apply-climate-smart-ag-grants>

¹¹⁰⁵ ASEAN-Australia Special Summit, keynote address to the CEO Forum, Melbourne, Australian Government (Melbourne) 5 March 2024. Access Date: 16 March 2024. <https://www.trademinister.gov.au/minister/don-farrell/speech/asean-australia-special-summit-keynote-address-ceo-forum-melbourne>

¹¹⁰⁶ Extra funding to support Rural Financial Counselling Service, Department of Agriculture, Fisheries and Forestry (Canberra) 20 March 2024. Access Date: 27 April 2024. <https://minister.agriculture.gov.au/watt/media-releases/extra-funding-support-rural-financial-counselling-service>

On 25 March 2024, the Department of Agriculture, Fisheries and Forestry announced that Australia will now have increased market access in Pakistan for bovine semen and embryos.¹¹⁰⁷ This will enable increased agricultural productivity in Pakistan's dairy and beef industries while supporting climate-resilience through genetic selections for heat tolerance.

On 19 April 2024, the Commonwealth Scientific and Industrial Research Organisation, with financial and in-kind support from the Department of Agriculture, Fisheries and Forestry and the Commonwealth Scientific and Industrial Research Organisation published the Ag2050 Scenarios Report which outlines four potential scenarios for Australia's agricultural system.¹¹⁰⁸ The report explores trends and challenges that may result in the four scenarios, while considering ways facilitate long-term productive, resilient and sustainable agriculture.

Australia has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Australia has accelerated innovations and invested in building sustainable and climate-resilient agriculture and food systems through funding for Climate-Smart Agriculture program, the Carbon Farming Outreach Program, reducing methane emissions and investing in the Pacific Resilience Facility. It has also signed international agreements, supported reduced trade barriers and increased transparency and encouraged biosecurity.

Thus, Australia receives a score of +1.

Analyst: Jackson Leung

Brazil: +1

Brazil has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 1 December 2023, Brazil endorsed the United Arab Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action at 28th United Nations Climate Conference in Dubai.¹¹⁰⁹ The declaration aims to promote sustainable agriculture and food systems and climate-resilient food systems while addressing world hunger.

On 4 December 2023, Minister of Agriculture and Livestock Carlos Fávaro and Minister of Food and Agriculture of Germany Cem Özdemir signed three cooperation agreements for environmental sustainability.¹¹¹⁰ The partnership will include the exchange of agribusiness information and cooperation for sustainable and resilient agricultural production.

¹¹⁰⁷ Australian livestock genetics to strengthen Pakistan cattle herds, Department of Agriculture, Fisheries and Forestry (Canberra) 25 March 2024. Access Date: 16 May 2024. <https://www.agriculture.gov.au/about/news/australian-livestock-genetics-pakistan-cattle>

¹¹⁰⁸ The Ag2050 Scenarios Report is out now, CSIRO (Canberra) 19 April 2024. Access Date: 27 April 2024. <https://research.csiro.au/ag2050/the-ag2050-scenarios-report-is-out-now/>

¹¹⁰⁹ COP28 Presidency Puts Food Systems Transformations on Global Climate Agenda as More Than 130 World Leaders Endorse Food and Agriculture Production, COP28 (Dubai) 1 December 2023. Access Date: 12 April 2024. <https://www.cop28.com/en/news/2023/12/COP28-UAE-Presidency-puts-food-systems-transformation>; COP28 UAE Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action, COP28 (Dubai) n.d. Access Date: 12 April 2024. <https://www.cop28.com/en/food-and-agriculture>

¹¹¹⁰ Ministro Carlos Fávaro assina acordos bilaterais com a Alemanha, Ministério da Agricultura e Pecuária (Brasília) 4 December 2023. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/ministro-carlos-favaro-assina-acordos-bilaterais-com-a-alemanha>

On 4 December 2023, the Ministry of Agriculture and Livestock and German Technical Cooperation Agency announced EUR3 million in funding to address agricultural sustainability in the Amazon region.¹¹¹¹ Focusing on the Madeira-Mamoré Territory region in Rondônia, the partnership will support 520 producers including over 100 women to “adopt practices that enable the improvement of the social, environmental and economic situation of communities and rural landscapes served.”

On 12 January 2024, the Ministry of Agriculture and Livestock and Federal Data Processing Service signed a Technological Cooperation Agreement to establish the “AgroHub Brasil Digital Agricultural Innovation Platform.”¹¹¹² The platform will create a network of industry professionals to develop innovative solutions for sustainable development in agriculture.

On 23 January 2024, the Ministry of Agriculture and Livestock and Brazilian Association of Mineral Supplement Industries signed a Technological Cooperation Agreement to train agricultural professionals in the beef and dairy cattle industries.¹¹¹³ Training will focus on sustainable development and climate-resilient production with a focus on lowering greenhouse gas emissions.

On 30 January 2024, the Ministry of Agriculture and Livestock, the Ministry of Development of Industry, Commerce and Services and the Ministry of Mines and Energy signed Memorandums of Understanding with Bolivia’s Ministries of Rural Development and Land and Hydrocarbons and Energy.¹¹¹⁴ The memorandums focus on sustainable development in agriculture including by increasing fertilizer production.

On 31 January 2024, the Ministry of Agriculture and Livestock and Federal University of Rondônia signed a Technical Cooperation Agreement to support education and research on bioeconomy and Amazon biodiversity.¹¹¹⁵ The partnership aims to support training and increase sustainable production and innovation especially for the cocoa farming.

On 2 February 2024, Minister Fávoro and President of the National Bank for Economic and Social Development Aloizio Mercadante announced an additional BRL6 million in funding for credit lines

¹¹¹¹ Brasil e Alemanha lançam projeto para fomentar a transparência e a sustentabilidade em cadeias produtivas na Amazônia, Ministério da Agricultura e Pecuária (Brasília) 4 December 2023. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/brasil-e-alemanha-lancam-projeto-para-fomentar-a-transparencia-e-a-sustentabilidade-em-cadeias-produtivas-na-amazonia>

¹¹¹² Mapa e Serpro celebram acordo de cooperação para a criação da Plataforma Digital de Inovação Agropecuária, Ministério da Agricultura e Pecuária (Brasília) 12 January 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/mapa-e-serpro-celebram-acordo-de-cooperacao-para-a-criacao-da-plataforma-digital-de-inovacao-agropecuaria>

¹¹¹³ Mapa e Asbram firmam Acordo de Cooperação Técnica para capacitação de profissionais do setor agropecuário, Ministério da Agricultura e Pecuária (Brasília) 23 January 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/mapa-e-asbram-firmam-acordo-de-cooperacao-tecnica-para-capacitacao-de-profissionais-do-setor-agropecuario-1>

¹¹¹⁴ Acordos entre Brasil e Bolívia favorecem avanço tecnológico da agropecuária e produção de fertilizantes, Ministério da Agricultura e Pecuária (Brasília) 30 January 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/acordos-entre-brasil-e-bolivia-favorecem-avanco-tecnologico-da-agropecuaria-e-producao-de-fertilizantes>

¹¹¹⁵ Mapa e Unir firmam cooperação para fortalecer programas de educação e pesquisa sobre bioeconomia e cacauicultura, Ministério da Agricultura e Pecuária (Brasília) 31 January 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/mapa-e-unir-firmam-cooperacao-para-fortalecer-programas-de-educacao-e-pesquisa-sobre-bioeconomia-e-cacauicultura>

that support small and medium sized agricultural producers.¹¹¹⁶ This will enable agricultural productivity and sustainable development.

On 4 March 2024, Minister Fávaro inaugurated the Rio Grande do Sul campus of the Atitus Educação Agribusiness School.¹¹¹⁷ The campus aims to enhance agricultural innovation and increase productivity through the establishment of Animal Health and Learning centres, an “Innovation Hub, Smart Farm, AgroResearch Center and an Agribusiness Technology Park.” The government will provide BRL100 million in funding for this initiative until 2027.

On 13 March 2024, Minister Fávaro and President Luiz Inácio Lula da Silva inaugurated the EuroChem Mining Industrial Complex which aims to produce 1 million tons of phosphate fertilizers annually.¹¹¹⁸ This initiative will increase agricultural productivity and competitiveness in Brazil while supporting food security and the economy through increased jobs and opportunities for foreign investment.

On 15 April 2024, a delegation from Cameroon met representatives from the Executive Committee of the Cocoa Farming Plan at the Ministry of Agriculture and Livestock’s headquarters.¹¹¹⁹ They discussed the terms of a possible cooperation agreement for increased sustainable and environmentally friendly production of cocoa in both countries.

On 25 April 2024, President Lula da Silva and Minister Fávaro attended the 51st anniversary of the Brazilian Agricultural Research Corporation’s creation.¹¹²⁰ At the event, the Ministry of Agriculture and Livestock, International Bank for Reconstruction and Development and the International Finance Corporation signed a five-year Memorandum of Understanding for resilient and climate friendly agricultural development. Brazil also signed a technical cooperation agreement with the Japan International Cooperation Agency for increased innovation and sustainable development of Brazil’s agricultural sector.

On 8 May 2024, Minister Fávaro conducted a meeting with ambassadors from the League of Arab States to present proposals for agricultural and technological cooperation.¹¹²¹ This meeting was attended by representatives from Saudi Arabia, Algeria, Egypt, Iraq, Mauritania, Tunisia, Libya, Sudan, Jordan, Kuwait, Qatar, Bahrain, Oman, Syria and Palestine. In the meeting, Minister Fávaro reaffirmed

¹¹¹⁶ Fávaro e Mercadante anunciam mais de R\$ 6 bilhões em linhas de crédito do BNDES para apoiar setor do agro, Ministério da Agricultura e Pecuária (Brasília) 2 February 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/favaro-e-mercadante-anunciam-mais-de-r%24-6-bilhoes-em-linhas-de-credito-do-bndes-para-apoiar-setor-do-agro>

¹¹¹⁷ No Rio Grande do Sul, ministro Fávaro participa de lançamento de campus com foco na agropecuária, Ministério da Agricultura e Pecuária (Brasília) 5 March 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/no-rio-grande-do-sul-ministro-favaro-participa-de-lancamento-de-campus-com-foco-na-agropecuaria>

¹¹¹⁸ Brasil amplia produção de fertilizantes para a agricultura brasileira com nova fábrica, Ministério da Agricultura e Pecuária (Brasília) 13 March 2024. Translation provided by Google Translate. Access Date: 12 April 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/brasil-amplia-producao-de-fertilizantes-para-a-agricultura-brasileira-com-nova-fabrica>

¹¹¹⁹ Ceplac recebe comitiva da República dos Camarões para tratar de cooperação para revitalização da cacauicultura, Ministério da Agricultura e Pecuária (Brasília) 17 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/ceplac-recebe-comitiva-da-republica-dos-camaroes-para-tratar-de-cooperacao-para-revitalizacao-da-cacauicultura>

¹¹²⁰ Lula e Fávaro reforçam compromisso na busca de mais investimentos para a Embrapa, Ministério da Agricultura e Pecuária (Brasília) 25 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/lula-e-favaro-reforcam-compromisso-na-busca-de-mais-investimentos-na-embrapa>

¹¹²¹ Ministro Fávaro apresenta propostas de cooperação a embaixadores da Liga Árabe, Ministério da Agricultura e Pecuária (Brasília) 8 May 2024. Translation provided by Google Translate. Access Date: 12 May 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/ministro-favaro-apresenta-propostas-de-cooperacao-a-embaixadores-da-liga-arabe>

Brazil's commitment to ensuring food security through international partnerships. Foreign investment for Brazil's agricultural sector was also discussed.

Brazil has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. By supporting domestic agriculture through increasing agriculture technologies in areas of less technological advancement, increasing research output and bio-innovation in the cocoa farming sector and stabilising domestic rice prices amid environmental challenges, Brazil has supported domestic food security and agricultural innovation. Additionally, Brazil has also begun forming strategic partnerships with countries to boost agricultural productivity to attain greater food security.

Thus, Brazil receives a score of +1.

Analysts: Arvind Kumar and Artin Khiabani

Canada: +1

Canada has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 10 January 2024, Minister of Agriculture and Agri-Food Lawrence MacAulay and Saskatchewan's Minister of Agriculture David Marit announced a CAD14.7 million budget under the Sustainable Canadian Agricultural Partnership (Sustainable CAP) for crop-related research in 2024.¹¹²² The funding supports 56 Agriculture Development Fund research projects and a Strategic Research Initiative project targeting root rot in peas and lentils aimed at promoting advancements in crop yield, disease resistance, and sustainable farming techniques. This will increase Saskatchewan's competitiveness in the agricultural industry.

On 17 January 2024, the governments of Canada and Ontario announced a joint investment of approximately CAD8 million through the Sustainable CAP. Eligible dairy businesses were invited to apply for funding to adopt modern technologies, supporting the Grow Ontario Strategy objectives.¹¹²³ The initiative aims to enhance food supply chain efficiencies and safety within the province's dairy sector while mitigating the risk of future distribution disruptions.

On 17 January 2024, Minister MacAulay announced up to CAD9.98 million in funding through the fifth phase of the Local Food Infrastructure Fund.¹¹²⁴ The funding aims to address local food security needs and increase access to healthy food by supporting 192 new community-led projects across the country and investing in equipment and infrastructure to enhance the accessibility of nutritious, local food.

¹¹²² Governments of Canada and Saskatchewan Invest \$14.7 Million in Crop Research, Government of Saskatchewan (Regina) 10 January 2024. Access Date: 16 March 2024. <https://www.saskatchewan.ca/government/news-and-media/2024/january/10/governments-of-canada-and-saskatchewan-invest-147-million-in-crop-research>

¹¹²³ Governments investing up to \$8 million in Ontario's dairy processing sector, Agriculture and Agri-Food Canada (Toronto) 17 January 2024. Access Date: 10 March 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/01/governments-investing-up-to-8-million-in-ontarios-dairy-processing-sector.html>

¹¹²⁴ Minister MacAulay announces nearly \$10 million in funding to strengthen local food security, Agriculture and Agri-Food Canada (New Hamburg) 17 January 2024. Access Date: 10 March 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/01/minister-macaulay-announces-nearly-10-million-in-funding-to-strengthen-local-food-security.html>

On 19 January 2024, the Governments of Canada and Ontario allocated over CAD16 million toward energy-saving projects for food processors through Sustainable CAP.¹¹²⁵ The initiative aims to invest in new technologies, equipment upgrades and building modifications to enhance competitiveness through sustainable improvements in energy efficiency and lowered operational costs.

On 9 February 2024, Canada announced an investment of approximately CAD11 million to Pulse Canada through the AgriScience Program, recognizing its position as a leading global exporter of pulses.¹¹²⁶ The investment aims to enhance pulse production efficiency, increase carbon sequestration, reduce nitrogen fertilizer consumption, and support the development of disease-resistant pulse varieties.

On 27 February 2024, Minister of International Development Ahmed Hussen announced significant financial contributions at the 46th Regular Meeting of the Conference of Heads of Government of the Caribbean Community to support the One Guyana Digital Skills Development Programme, reinforcing Canada's strategic partnership with the region.¹¹²⁷ The funding will advance efforts in climate action, biodiversity conservation, food security and climate change adaptation while prioritizing the needs of vulnerable populations.

On 27 February 2024, Minister MacAulay announced a CAD3.1 million allocation to the Canadian Agri-Food Policy Institute through the AgriAssurance Program.¹¹²⁸ The investment aims to enhance the National Index on Agri-Food Performance which will serve as a tool for companies to evaluate and declare the sustainability of their practices, thereby enhancing data accuracy and transparency within Canada's agriculture and food system.

On 7 March 2024, Minister MacAulay unveiled a CAD97 million investment toward the Agricultural Clean Technology Program, supporting 162 projects nationwide.¹¹²⁹ The investment, showcased through the adoption of solar energy systems at a family-owned dairy farm in Nova Scotia, aims to reduce greenhouse gas emissions and enhance long-term competitiveness in agriculture by focusing on green energy and energy efficiency, precision agriculture and bioeconomy solutions.

On 22 March 2024, Agriculture and Agri-Food Canada announced CAD16.3 million for 101 agricultural research and innovation projects in Manitoba over the next three years.¹¹³⁰ Projects will

¹¹²⁵ Governments helping food processing businesses lower costs, Agriculture and Agri-Food Canada (Toronto) 19 January 2024. Access Date: 13 March 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/01/governments-helping-food-processing-businesses-lower-costs.html>

¹¹²⁶ Government of Canada announces funding to strengthen the pulse sector and mitigate climate change, Agriculture and Agri-Food Canada (Winnipeg) 9 February 2024. Access Date: 10 March 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/02/government-of-canada-announces-funding-to-strengthen-the-pulse-sector-and-mitigate-climate-change.html>

¹¹²⁷ Minister Hussen attends 46th CARICOM meeting and announces new funding for multiple countries in the Caribbean, Global Affairs Canada (Ottawa) 27 February 2024. Access Date: 13 March 2024. <https://www.canada.ca/en/global-affairs/news/2024/02/minister-hussen-attends-46th-caricom-meeting-and-announces-new-funding-for-multiple-countries-in-the-caribbean.html>

¹¹²⁸ Government of Canada announces funding to improve sustainability benchmark for agri-food, Agriculture and Agri-Food Canada (Ottawa) 27 February 2024. Access Date: 10 March 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/02/government-of-canada-announces-funding-to-improve-sustainability-benchmark-for-agri-food.html>

¹¹²⁹ Minister MacAulay announces over \$97 million to help Canadian farmers adopt clean technologies, Agriculture and Agri-Food Canada (Debert) 7 March 2024. Access Date: 16 March 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/03/minister-macaulay-announces-over-97-million-to-help-canadian-farmers-adopt-clean-technologies.html>

¹¹³⁰ Supporting research and innovation in agriculture, with funding for 101 new projects, Agriculture and Agri-Food Canada (Winnipeg) 22 March 2024. Access Date: 10 May 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/03/supporting-research-and-innovation-in-agriculture-with-funding-for-101-new-projects.html>

focus on increasing sustainability and climate-resilience. Funding will be provided by the federal and Manitoba governments through the Sustainable Canadian Agricultural Partnership.

On 5 April 2024, Member of Parliament for Sherbrooke Élisabeth Brière, on behalf of Minister MacAulay, announced up to CAD1 million for the Canadian meat processing and controlled environment agriculture industries.¹¹³¹ Funding will support automation and robotic technologies to address “work productivity, labour shortages, and operational efficiency.”

On 8 May 2024, Minister MacAulay and Minister Marit announced a research investment of CAD25 million through the Sustainable Canadian Agricultural Partnership to the University of Saskatchewan’s College of Agriculture and Bioresources.¹¹³² Research will focus on sustainable and climate-resilient agricultural growth through crop improvements and developments for soil and the environment.

On 10 May 2024, Member of Parliament for Niagara Centre Vance Badawey, on behalf of Minister MacAulay, announced that up to CAD1,099,624 through the AgriScience Program will be dedicated to the Ontario Tender Fruit Growers.¹¹³³ The funding aims to help farmers quantify “the impacts of climate-smart management practices,” develop carbon footprint data and increase agricultural resiliency.

Canada has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. By making investments in crop-related research, contributing to the modernization of dairy businesses, placing mechanisms to support local food infrastructure, and funding energy-saving projects, Canada has taken strong action to advance sustainable and climate-resilient agriculture and food systems.

Thus, Canada receives a score of +1.

Analyst: Chidera Uduji

China: 0

China has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 19 December 2023, the Ministry of Agriculture and Rural Affairs launched 25 working groups to advise on sustainable food production in light of extreme cold weather.¹¹³⁴ Based on assessments by the working groups, the ministry encouraged farmers to maintain greenhouses and animal shelters and take protective measures to protect crops.

¹¹³¹ Government of Canada announces support for innovative solutions to address labour challenges in the agriculture and agri-food sector, Agriculture and Agri-Food Canada (Sherbrooke) 5 April 2024. Access Date: 10 May 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/04/government-of-canada-announces-support-for-innovative-solutions-to-address-labour-challenges-in-the-agriculture-and-agri-food-sector.html>

¹¹³² Governments of Canada and Saskatchewan invest \$25 million in agriculture researchers, Agriculture and Agri-Food Canada (Regina) 8 May 2024. Access Date: 10 May 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/05/governments-of-canada-and-saskatchewan-invest-25-million-in-agriculture-researchers.html>

¹¹³³ Parliamentary Secretary Badawey announces funding for Ontario Tender Fruit Growers to develop climate resilient fruit varieties, Agriculture and Agri-Food Canada (Vineland Station) 10 May 2024. Access Date: 10 May 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/05/parliamentary-secretary-badawey-announces-funding-for-ontario-tender-fruit-growers-to-develop-climate-resilient-fruit-varieties.html>

¹¹³⁴ China takes great measures to ensure stable agricultural production, Ministry of Agriculture and Rural Affairs of the People’s Republic of China (Beijing) 19 December 2023. Access Date: 12 April 2024. http://english.moa.gov.cn/news_522/202312/t20231219_301300.html

On 16 January 2024, Vice Minister of Agriculture and Rural Affairs Ma Youxiang and Vietnam's Deputy Minister of Agriculture and Rural Development Tran Thanh Nam met in Beijing to discuss agricultural cooperation.¹¹³⁵ Vice Minister Youxiang discussed China's priorities including rural revitalization, conservation of agricultural resources, green agriculture and resilience. He also reaffirmed China's commitment to work with Vietnam on these issues.

On 20 January 2024, Vice Minister Youxiang held a working meeting with Parliamentary State Secretary of the Federal Ministry of Food and Agriculture of Germany Ophelia Nick to discuss agricultural cooperation.¹¹³⁶ During the meeting, they signed the 2024-2028 Action Plan on Agricultural Cooperation Between the Ministry of Agriculture and Rural Affairs which outlines cooperation on rural revitalization, climate-resilience, soil health, animal disease prevention and market access for meat products.

On 19 February 2024, Vice Minister Youxiang spoke at the 37th Session of the Food and Agriculture Organization's Regional Conference for Asia and the Pacific.¹¹³⁷ During his speech, he recommended that members work together to promote food security by prioritizing development and the resilience of agri-food systems and building the capacity of small-scale farmers.

On 13 March 2024, the Ministry of Finance and the Ministry of Agriculture and Rural Affairs announced a budget of CNY830 million to aid in the spring's farming endeavours.¹¹³⁸ Funding will be used to support agricultural facilities and disaster prevention.

China has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. It has taken strong action towards the commitment through a cooperation agreement with Germany that outlines cooperation on climate-resilience and sustainable agriculture and food systems. China has also taken weak action through verbal statements and reaffirming cooperation commitments. However, China has not taken strong action across more than 50 per cent of the commitment components.

Thus, China receives a score of 0.

Analysts: Arvind Kumar and Artin Khiabani

France: +1

France has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and to build more sustainable and climate-resilient agriculture and food systems.

On 19 December 2023, the Minister of Agriculture and Food Sovereignty Marc Fesneau presented a new plan supported by up to EUR3 million to prevent African swine fever which affects pigs and has

¹¹³⁵ Vice Minister Ma Youxiang Meets with Vietnam's Deputy Minister of Agriculture and Rural Development, Ministry of Agriculture and Rural Affairs of the People's Republic of China (Beijing) 18 January 2024. Access Date: 12 April 2024. http://english.moa.gov.cn/news_522/202401/t20240120_301309.html

¹¹³⁶ Vice Minister Ma Youxiang Holds Work Meeting with German Parliamentary State Secretary Nick, Ministry of Agriculture and Rural Affairs of the People's Republic of China (Beijing) 22 January 2024. Access Date: 12 April 2024. http://english.moa.gov.cn/news_522/202401/t20240123_301312.html

¹¹³⁷ The 37th Session of the FAO Regional Conference for Asia and the Pacific, Ministry of Agriculture and Rural Affairs of the People's Republic of China (Beijing) 22 February 2024. Access Date: 12 April 2024. http://english.moa.gov.cn/news_522/202402/t20240223_301316.html

¹¹³⁸ China allocates 830 mln yuan to support spring farming, Ministry of Agriculture and Rural Affairs of the People's Republic of China (Beijing) 13 March 2024. Access Date: 12 May 2024. http://english.moa.gov.cn/news_522/202404/t20240415_301322.html

a mortality rate of close to 100 per cent.¹¹³⁹ Funding aims to contain the virus, control wild boar populations and monitor their health and improve the biosecurity of farms.

On 21 December 2023, Minister Fesneau introduced seven measures including decarbonisation of agriculture and the forestry sector with EUR1.3 billion in funding.¹¹⁴⁰ The goal of these measures is to reduce French greenhouse gas emissions and pressures on biodiversity.

On 21 December 2023, Minister Fesneau announced the opening of five funding windows supported by a budget of EUR100 million to allow fruit and vegetable farms to invest in a selection of eighty innovative equipment.¹¹⁴¹ The goal of this measure is to “strengthen food sovereignty by promoting competitiveness, resilience and adaptation of farms producing fruit and vegetables, particularly in the face of climatic and health hazards, as part of the agroecological transition.”

On 23 February 2024, Minister Fesneau presented an action plan to address the beekeeping crisis linked to climatic hazards.¹¹⁴² This includes temporary aid of EUR5 million to help beekeepers as well as structural measures aimed at supporting the beekeeping sector over the long term for which EUR2.3 million have been allotted.

On 27 February 2024, Minister Fesneau signed the Charter of Commitment for the ‘Regional Vine Demonstrators: Vitilience’ project.¹¹⁴³ This project aims, through the establishment of 20 solution demonstrators, to facilitate the appropriation of wine systems adapted to climate change.

On 29 February 2024, Minister Fesneau committed to supporting a Durum Wheat Sovereignty Plan with a state-funding of EUR11 million likely to be devoted to it.¹¹⁴⁴ This plan includes genetic and agronomic research of durum wheat areas and reducing carbon footprints in accordance with France’s decarbonization roadmap.

¹¹³⁹ Un plan national d’action rénové pour prévenir l’introduction et la propagation de la peste porcine africaine (PPA) en France, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 19 December 2023. Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/un-plan-national-daction-renove-pour-prevenir-lintroduction-et-la-propagation-de-la-peste-porcine>

¹¹⁴⁰ Planification écologique: 7 mesures concrètes pour accompagner les transitions du secteur Agricole français et conforter notre souveraineté alimentaire, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 21 December 2023. Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/planification-ecologique-7-mesures-concretes-pour-accompagner-les-transitions-du-secteur-agricole>

¹¹⁴¹ Plan de souveraineté pour la filière fruits et légumes: ouverture de cinq guichets France 2030 de soutien aux investissements des agriculteurs dans des agroéquipements innovants, d’un montant total de 100 millions d’euros, pour la compétitivité et la résilience des filières, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 21 December 2023. Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/plan-de-souverainete-pour-la-filiere-fruits-et-legumes-ouverture-de-cinq-guichets-france-2030-de>

¹¹⁴² Le Gouvernement annonce la mise en place d’un plan d’actions face à la crise apicole, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 23 February 2024. Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/le-gouvernement-annonce-la-mise-en-place-dun-plan-dactions-face-la-crise-apicole>

¹¹⁴³ #SIA2024 : le ministère de l’Agriculture et de la Souveraineté alimentaire signe les contrats d’objectifs et de performance de l’INAO et de FranceAgrimer et s’engage dans le projet VITILIENCE, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 27 February 2024. Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/sia2024-le-ministere-de-lagriculture-signe-les-contrats-dobjectifs-et-de-performance-de-linao-et-de>

¹¹⁴⁴ #SIA2024 Le ministère de l’Agriculture et de la Souveraineté alimentaire s’engage à soutenir la démarche initiée par la filière blé dur et l’interprofession Intercéréales autour d’un Plan de Souveraineté Blé Dur, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 29 February 2024. Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/sia2024-le-ministere-de-lagriculture-et-de-la-souverainete-alimentaire-sengage-soutenir-la-demarche>

On 29 February 2024, Minister Fesneau signed an agreement with the National Union of Chestnut Producers to establish a chestnut sector coordination unit.¹¹⁴⁵ The goal of this measure is to revitalize the chestnut sector which has been witnessing a decrease in productivity for several years due to the consequences of climate change and phytosanitary issues.

On 1 March 2024, Minister Fesneau, the Minister of Higher Education and Research Sylvie Retailleau and the Secretary General for Investment Bruno Bonnell announced that a funding of EUR 218 million will be catered to research and innovation systems dedicated to agroecological transition.¹¹⁴⁶

On 12 March 2024, the Ministry of Agriculture and Food Sovereignty announced the launch of a major national experiment aimed at evaluating the health prevention measures implemented in small-scale open-air farms.¹¹⁴⁷ 92 poultry farms and 54 pig farms will be chosen to be supported in the implementation of biosecurity measures to determine their success and identify any effective or alternative measures.

On 23 April 2024, Minister Fesneau visited Morocco to renew France's agricultural and forestry partnership with Morocco and announced the "inauguration of the 16th edition of the International Food Fair Agriculture."¹¹⁴⁸ The partnership outlines a collaborative framework to develop resilient, sustainable and productive agricultural and forestry systems and aims to enhance educational and scientific exchanges. The visit also resulted in a financing agreement of EUR72.1 million to combat climate change and enhance food security.

On 23 April 2024, Minister Fesneau announced EUR15 million in funding to support farmers.¹¹⁴⁹ Of this, EUR5 million will go towards farmers impacted by poor weather conditions like the Ciaran and Domingos storms and flooding, EUR4 million will support farmers combatting epizootic hemorrhagic disease, EUR1 million will support the beekeeping industry and EUR5 million will go towards general production needs. This funding aims to support agricultural production in light of climate hazards and other issues.

¹¹⁴⁵ Soutien à la filière châtaigne : signature d'une convention avec le Syndicat National des Producteurs pour poser les bases du plan national, Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 29 February 2024.

Translation provided by Google Translate. Access Date: 19 March 2024. <https://agriculture.gouv.fr/soutien-la-filiere-chataigne-signature-dune-convention-avec-le-syndicat-national-des-producteurs>

¹¹⁴⁶ Recherche et innovation au service des transitions des filières végétales: l'État annonce plus de 218 millions d'euros, pour développer des solutions concrètes pour les agriculteurs, Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 1 March 2024. Translation provided by Google Translate. Access Date: 19 March 2024.

<https://agriculture.gouv.fr/recherche-et-innovation-au-service-des-transitions-des-filiere-vegetales-letat-annonce-plus-de-218>

¹¹⁴⁷ Prévention des maladies animales : l'expérimentation sur la biosécurité dans les élevages de plein air en filières avicole et porcine entre en phase opérationnelle, Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 12 March 2024. Translation provided by Google Translate. Access Date: 19 March 2024.

<https://agriculture.gouv.fr/prevention-des-maladies-animales-lexperimentation-sur-la-biosecurite-dans-les-elevages-de-plein-air>

¹¹⁴⁸ Pour un partenariat agricole et forestier renouvelé entre la France et le Maroc, Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 6 May 2024. Translation provided by Google Translate. Access Date: 13 May 2024.

¹¹⁴⁹ Le ministère de l'Agriculture et de la Souveraineté alimentaire poursuit, avec la Mutualité Sociale Agricole, son soutien aux agriculteurs en difficulté en déployant une enveloppe de prises en charge de cotisations sociales de 15 millions euros, Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 23 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://agriculture.gouv.fr/le-ministere-en-charge-de-lagriculture-poursuit-avec-la-mutualite-sociale-agricole-son-soutien-aux>

On 27 April 2024, Prime Minister Gabriel Attal announced measures focused on supporting farmers through sustainable and climate-resilient agriculture.¹¹⁵⁰ Priority areas include sustainable resource management, support for farmers experiencing climate-related issues and financial support.

On 6 May 2024, the Government of France published the Écophyto 2030 Strategy.¹¹⁵¹ The publication consists of strategies and objectives aimed at combating climate change, maintaining crop protection and supporting the economic and environmental performance of farms. EUR250 million will be allocated to ecological planning in 2024 as part of this strategy.

France has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and to build more sustainable and climate-resilient agriculture and food systems. It has taken actions in all the following categories: accelerating innovations and investment to increase agricultural productivity, building more sustainable agriculture and food systems, building more climate-resilient agriculture and food systems. It has addressed agricultural productivity by investing in prevention of livestock diseases, access to innovative equipment and attracting new labour. It has addressed sustainability by promotion of sustainable products and lobbying against harmful toxins in foodstuffs. It has also addressed climate-resilience by facilitating the adaptation of various sectors to climate-change and decarbonisation efforts.

Thus, France receives a score of +1.

Analyst: Hamza Noor

Germany: +1

Germany has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and to build more sustainable and climate-resilient agriculture and food systems.

On 8 December 2023, the Ministry of Food and Agriculture released an expert report on due diligence regulations in the agri-food sector.¹¹⁵² The Ministry supports the introduction of due diligence obligations effectively increasing the responsibility of private companies in addressing sustainability issues in agricultural supply chains.

On 8 December 2023, the Ministry for Economic Development and Cooperation expanded their “debt-for-climate” program to Kenya.¹¹⁵³ Rather than repaying debts to Germany, the program encourages climate-vulnerable countries to invest money in climate action, mitigation, and adaptation. The Kenyan government is investing EUR60 million in projects agreed on with Germany. Implementation of these projects will begin in 2024 and will involve improvements for sustainable and climate-resilient agriculture and food systems.

¹¹⁵⁰ Le Premier ministre Gabriel Attal annonce des mesures complémentaires pour soutenir les agriculteurs et renforcer la souveraineté alimentaire française, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 27 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://agriculture.gouv.fr/le-premier-ministre-gabriel-attal-annonce-des-mesures-complementaires-pour-soutenir-les>

¹¹⁵¹ Planification écologique et agriculture: le Gouvernement publie la stratégie Écophyto 2030, Ministère de l’Agriculture et de la Souveraineté Alimentaire (Paris) 6 May 2024. Translation provided by Google Translate. Access Date: 30 April 2024. <https://agriculture.gouv.fr/planification-ecologique-et-agriculture-le-gouvernement-publie-la-strategie-ecophyto-2030>

¹¹⁵² New Due Diligence Obligations for Companies in the Agri-Food Sector: Recommendations on Current Legislative Developments, Federal Ministry of Food and Agriculture (Berlin) 8 December 2023. Access Date: 12 March 2024. https://www.bmel.de/SharedDocs/Downloads/EN/_Ministry/New-due-diligence-obligation-for-companies.html

¹¹⁵³ Debt-for-Climate Swaps, Federal Ministry for Economic Cooperation and Development (Berlin) 8 December 2023. Access Date: 15 March 2024. <https://www.bmz.de/en/issues/climate-change-and-development/climate-financing/debt-for-climate-swaps-195550>

On 9 December 2023, the Ministry for Economic Development and Cooperation announced that Germany will host the next Desertification and Drought Day on 17 June 2024 in partnership with the United Nations Convention to Combat Desertification.¹¹⁵⁴ The meet will focus on healthy land, “climate change, biodiversity, food and water security.”

On 19 January 2024, the Ministry of Food and Agriculture published its 2030 Organic Strategy.¹¹⁵⁵ The report aims to increase the amount of agricultural land under organic farming in Germany to 30 per cent by 2030. The strategy also intends to align the entire agricultural sector to the government’s environmental protection and resource conservation goals.

On 20 January 2024, Berlin hosted the 16th Agriculture Ministers’ Conference.¹¹⁵⁶ The gathering convened agricultural ministers from 61 countries who expressed their commitment to “foster resilient and sustainable agricultural practices and technologies to enhance sustainable agricultural production and sustainable productivity growth.” The conference also formally endorsed the implementation of the Committee on World Food Security’s Voluntary Guidelines on Food Systems and Nutrition. The pillars of this agreement advance sustainable production and resilient supply chains and aim to reduce food loss and waste while strengthening vulnerable groups.

On 20 January 2024, Parliamentary State Secretary of the Ministry of Food and Agriculture Ophelia Nick and China’s Vice Minister of Agriculture and Rural Affairs Ma Youxiang met in Berlin.¹¹⁵⁷ During their meeting, they signed the 2024-2028 Action Plan on Agricultural Cooperation Between the Ministry of Agriculture and Rural Affairs which outlines cooperation on rural revitalization, climate-resilience, soil health, animal disease prevention and market access for meat products.

On 29 February 2024, the Ministry for Economic Development and Cooperation published its “Core Area Strategy,” offering a guiding vision of “social-ecological transformation of the economy.”¹¹⁵⁸ The initiative resolves to support German and local businesses, cultivating stronger relationships and cooperation between the government and the private sector. The report elaborates on resolutions aimed at combating international poverty, hunger, and inequality. The strategy calls for labour and market reforms that pursue just development policies and comprehensive approaches that transform infrastructure and agriculture.

On 6 March 2024, Germany and the Food and Agricultural Organization of the United Nations offered material support to Ukraine by providing generators to agricultural producers from the eastern and

¹¹⁵⁴ Germany to Host 2024 Desertification and Drought Day, Federal Ministry for Economic Cooperation and Development (Berlin) 9 December 2023. Access Date: 16 March 2024. <https://www.bmz.de/en/news/press-releases/germany-to-host-2024-desertification-and-drought-day-195528>

¹¹⁵⁵ 2030 Organic Strategy: National Strategy for 30% Organic Food and Farming by 2030, Federal Ministry of Food and Agriculture (Berlin) 19 January 2024. Access Date: 12 March 2024. <https://www.bmel.de/SharedDocs/Downloads/EN/Publications/2030-organic-strategy.html>

¹¹⁵⁶ 16th Berlin Agriculture Ministers’ Conference, Federal Ministry of Food and Agriculture (Berlin) 20 January 2024. Access Date: 12 March 2024. https://www.bmel.de/SharedDocs/Downloads/EN/_International-Affairs/gffa-2024-communicue-en.html

¹¹⁵⁷ Vice Minister Ma Youxiang Holds Work Meeting with German Parliamentary State Secretary Nick, Ministry of Agriculture and Rural Affairs of the People’s Republic of China (Beijing) 22 January 2024. Access Date: 12 April 2024. http://english.moa.gov.cn/news_522/202401/t20240123_301312.html

¹¹⁵⁸ Core Area Strategy: Sustainable Economic Development, Training, and Employment, Federal Ministry for Economic Cooperation and Development (Berlin) 29 February 2024. Access Date: 16 March 2024. <https://www.bmz.de/resource/blob/205082/sustainable-economic-development-training-employment.pdf>

southern regions of the state.¹¹⁵⁹ The generators have helped mitigate the consequences of electricity outages and maintained a steady agricultural production and output.

On 11 April 2024, the Ministry of Food and Agriculture, Ministry of Finance and east German states agreed to new leasing principles for agricultural land.¹¹⁶⁰ The principles will consider the sustainability and ecological impact of agricultural practices in addition to financial consideration giving sustainable farms and farmers an upper hand.

Germany has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and to build more sustainable and climate-resilient agriculture and food systems. Germany has participated in coordinated efforts to address food security challenges in low- and middle-income countries, particularly in Africa. The member has also strived toward expanding partnerships and increasing cooperation between the public and private sectors in an effort to mitigate sustainability challenges in the agriculture supply chains. Finally, Germany supports global strides toward initiatives that protect food systems from climate change.

Thus, Germany receives a score of +1.

Analyst: Nikita Joshi

India: -1

India has failed to comply with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 15 March 2024, the Central Advisory Committee of Food Safety and Standards Authority of India announced its action plan for anti-microbial resistance.¹¹⁶¹ The action plan creates awareness and surveillance on the usage of antibiotics in livestock, aquaculture and poultry to promote food safety and sustainability.

India has failed to comply with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. India has announced an action plan to promote food safety and sustainability but it has not announced any investments in the agriculture or food systems sectors. It has also not taken the minimum number of actions necessary to constitute partial compliance.

Thus, India receives a score of -1.¹¹⁶²

Analysts: Sze Wun Beatrice Ng and Ysabel Atienza

¹¹⁵⁹ Organic Farmers East and South of Ukraine Receive Generators from FAO and Germany, Food and Agricultural Organization of the United Nations (Rome) 6 March 2024. Access Date: 29 April 2024.

<https://www.fao.org/countryprofiles/news-archive/detail-news/en/c/1678603>

¹¹⁶⁰ Mehr Nachhaltigkeit bei der Verpachtung von Flächen der BVVG, Bundesministerium für Ernährung und Landwirtschaft (Berlin) 11 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024.

<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/031-bvvg.html>

¹¹⁶¹ Central Advisory Committee of FSSAI unveils Action Plan on Anti-Microbial Resistance, Press Information Bureau (New Delhi) 15 March 2024. Access Date: 1 April 2024. <https://pib.gov.in/PressReleaseIframePage.aspx?PRID=2015026>

¹¹⁶² This score of non-compliance was determined after searching the following websites: <https://www.india.gov.in/>, www.agriculture.gov.in, <http://moes.gov.in/>, <http://chemicals.nic.in/>, <https://consumeraffairs.nic.in/>, <http://moef.gov.in/en/> and <https://rural.nic.in/>.

Indonesia: +1

Indonesia has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 1 December 2023, Indonesia signed the Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action with 133 other countries at the COP28 meeting in Dubai.¹¹⁶³ President Joko Widodo declared his intention to transform food systems within the country by reducing carbon emissions, improving technological infrastructure, supporting small-scale agriculture and efficiently managing land usage.

On 9 January 2024, the Indonesian Agency for Agricultural Standardisation partnered with the Food and Agriculture Organization of the United Nations (FAO) in Indonesia, signing an Operational Partnership Agreement labelled the “Crop Diversity Conservation for Sustainable Use in Indonesia” project.¹¹⁶⁴ The agreement tackles key challenges concerning sustainability and conservation in use of plant and crop genetic materials, notably rice, taro, yam, nutmeg, and clove, aiming to enhance capacities of agricultural genetic resources.

On 15 January 2024, the National Food Agency, the Executive Office of the President and the FAO in Indonesia announced their new “Empowering Youth through Capacity Development on Innovative Farming System Programme for Agrifood System Transformation in Indonesia” initiative.¹¹⁶⁵ The two year project partners with Indonesia’s Ministry of Agriculture to motivate Indonesian youth to join the agricultural sector through a comprehensive educational programme on permaculture.

On 16 January 2024, President Widodo granted Minister of Agriculture Amdi Amran Sulaiman’s request to increase the current budget allocated towards fertilizer subsidization by IDR14 trillion.¹¹⁶⁶ The additional funding was allotted to make fertilizer distribution more fair and equitable to farmers across Indonesia.

On 16 January 2024, the governments of Indonesia and Timor-Leste promised to renew their cooperation in the Indonesian Seas Large Marine Ecosystem (ISLME) by signing the ISLME Strategic Action Programme (SAP).¹¹⁶⁷ The SAP addresses five primary environmental concerns in efforts to maintain sustainable fishing, marine biodiversity and conservation efforts. It is estimated to cost approximately USD49 million with 97 joint plans including 63 for Indonesia and 25 for Timor-Leste.

¹¹⁶³ Indonesia Mendukung Emirates Declaration on Sustainable Agriculture, Resilient Food System and Climate Action dalam Leader's Event COP28, Kementerian Koordinator Bidang Perekonomian Republik Indonesia (Jakarta) 2 December 2023. Translation provided by Google Translate. Access Date: 17 March 2024.

<https://ekon.go.id/publikasi/detail/5528/indonesia-mendukung-emirates-declaration-on-sustainable-agriculture-resilient-food-system-and-climate-action-dalam-leaders-event-cop28>

¹¹⁶⁴ FAO Indonesia and Ministry of Agriculture Ignite A New Partnership to Champion Crop Diversity, Food and Agriculture Organization of the United Nations (FAO) (Jakarta) 9 January 2024. Access Date: 17 March 2024.

<https://www.fao.org/indonesia/news/detail-events/en/c/1675771/>

¹¹⁶⁵ FAO, National Food Agency, and KSP Initiate A Collaborative Venture to Empower Youth for Food Systems Transformation, FAO (Jakarta) 15 January 2024. Access Date: 17 March 2024.

<https://www.fao.org/indonesia/news/detail-events/en/c/1675770/>

¹¹⁶⁶ Govt Ensures RP14 Trillion Additional Budget for Fertilizer Subsidy, Antara News (Jakarta) 16 January 2024. Access Date: 28 March 2024.

¹¹⁶⁷ Indonesia and Timor-Leste commit to partnership for the Indonesian Seas sustainability and acceleration of blue economy, FAO (Jakarta) 16 January 2024. Access Date: 17 March 2024. <https://www.fao.org/indonesia/news/detail-events/en/c/1676233/>

On 6 February 2024, Minister Sulaiman visited Aceh Province to guide 20,000 farmers to boost rice and corn production.¹¹⁶⁸ IDR170.98 billion in assistance was provided for numerous Indonesian provinces in funding for rice and corn seeds and production facilities.

On 12 February 2024, the Ministry of Agriculture provided IDR30 billion in emergency relief assistance to Central Java after flooding.¹¹⁶⁹ 10,000 hectares of rice seeds, pumps and various machinery and fertilizers were given to the local people to accelerate production.

On 24 February 2024, the Bio Input Training for Farmers READSI Program was inaugurated by Deputy Minister of Agriculture Harvick Hasnul Qolbi at the Batangkaluku Agricultural Centre.¹¹⁷⁰ The programme was developed to educate farmers on sustainable long-term agriculture and reduce reliance on dangerous chemical inputs.

On 25 February 2024, the Government of Indonesia submitted a G-33 ministerial statement on agricultural trade negotiation at MC13.¹¹⁷¹ The statement discusses the importance of public stockholding for food security purposes and affirms a commitment to correcting inequalities within trade negotiations, particularly addressing challenges least-developed countries and net food-importing countries face.

On 1 March 2024, Minister Sulaiman announced that free seeds, fertilizers, and infrastructure would be provided to Sumber Urip Village, Muara Telang District, Banyuasin Regency and South Sumatra Province.¹¹⁷² The initiative was made to improve distribution as part of Indonesia's agricultural development.

On 4 March 2024, the Ministry of Agriculture cosigned a memorandum of understanding and cooperation agreement with the Indonesian National Army to optimize swamp land.¹¹⁷³ The agreement oversees the transformation of swamp land into potential farming land to increase national agricultural productivity and food output.

On 8 March 2024, Minister Sulaiman and Chief of Staff of the Indonesian Army Maruli Simanjuntak agreed to expand pumping activities on Java.¹¹⁷⁴ IDR2 trillion was designated for these efforts to increase the productivity index of national rice planting. This will target 2 million hectares of dry rice fields to be converted through irrigation.

¹¹⁶⁸ Hadir di Aceh, Mentan Amran Beri Pembinaan 20.000 Petani dan Bantuan Rp 170,98 Miliar, Kementerian Pertanian Republik Indonesia (Aceh) 6 February 2024. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=5943>

¹¹⁶⁹ Kunjungi Korban Banjir Demak, Mentan Berikan Bantuan Benih 10.000 ha dan 30 Milliar Sarana Pertanian, Kementerian Pertanian Republik Indonesia (Demak) 12 February 2024. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=5954>

¹¹⁷⁰ Buka Pelatihan Bio Input, Wamentan Dorong Pertanian Ramah Lingkungan, Kementerian Pertanian Republik Indonesia (Gowa) 24 February 2024. Translation by Google Translate. Access Date: 17 March 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=5968>

¹¹⁷¹ G-33 Ministerial Statement on Agriculture Trade Negotiations at the 13th WTO Ministerial Conference, World Trade Organization (Abu Dhabi) 25 February 2024. Access Date: 16 March 2024. <https://docs.wto.org/dol2fe/Pages/SS/directdoc.aspx?filename=q:/WT/MIN24/16.pdf&Open=True>

¹¹⁷² Mentan Siapkan Benih, Pupuk Hingga Mekanisasi Untuk Tingkatkan Produksi Petani, Kementerian Pertanian Republik Indonesia (Banyuasin) 1 March 2024. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=5980>

¹¹⁷³ Andi Amran: Sinergi Kementan-TNI Perkuat Produksi Melalui Optimasi Lahan dan Pompanisasi, Kementerian Pertanian Republik Indonesia (Jakarta) 4 March 2024. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=5981>

¹¹⁷⁴ Mentan-KSAD Sepakat Perluas Areal Tanam Melalui Pompanisasi, Kementerian Pertanian Republik Indonesia (Jakarta) 8 March 2024. Translation provided by Google Translate. Access Date: 17 March 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=5989>

On 19 March 2024, the Ministry of Agriculture partnered with the FAO to launch the Community African Swine Fever Biosecurity Intervention programme in Indonesia selecting the North Sulawesi province for the location of three pilot project locations: Pinabetengan Village, Paslaten Satu Village and Tiwoho Village.¹¹⁷⁵ Supported by the Ministry of Agriculture, Food, and Rural Affairs of the Republic of Korea, the programme aims to mitigate the spread of African Swine Fever by implementation of biosecurity measures.

On 20 March 2024, the Ministry of Agriculture collaborated with the FAO to expedite the vaccination programme for livestock against Foot and Mouth disease (FMD) in eight areas within five provinces.¹¹⁷⁶ The action strives to protect livestock-dense regions from future FMD outbreaks.

On 21 March 2024, Minister Sulaiman announced the approval of an additional IDR5.83 trillion to be added in anticipation of the food shortages which may occur following the El Niño weather pattern to increase agricultural production.¹¹⁷⁷ The budget will focus on accelerating rice and corn production and planting new crops.

On 28 March 2024, Minister Sulaiman allocated an additional IDR28 trillion to the subsidized fertilizer budget allowing for 9.55 million tons of fertilizers to be directed towards Indonesian farmers.¹¹⁷⁸ The minister hopes that this increase in subsidized fertilizers will support planting and domestic production to improve the country's self-sufficiency.

On 14 April 2024, Directorate General of Plantations of the Ministry of Agriculture Andi Nur Alam Syah opened the registration for the 2024 Human Resources Development Scholarship for Palm Oil Plantations in affiliation with the Palm Oil Plantation Fund Management Agency to enable workers to join the palm oil industry.¹¹⁷⁹ The educational programme will help instruct 3,000 competent workers, by covering costs, training, and certifications, offering opportunities to the next generation of youth to enter the palm oil industry.

On 16 April 2024, Minister Sulaiman instituted rice cultivation on 500 thousand hectares of land in Merauke Regency in South Papua Province.¹¹⁸⁰ The region holds a large potential to function as a national food farm. The Regent of Merauke Romanus Mbaraka is simultaneously arranging for better irrigation infrastructure and organic farming targets for future development.

On 17 April 2024, Minister Sulaiman announced that 3,700 pump machines were provided to East Java Province after hosting the Agricultural Machinery Equipment Alert Call in Surabaya to increase

¹¹⁷⁵ MoA, North Sulawesi Provincial Government, and FAO Combat African Swine Fever with Biosecurity Interventions for Pig Farmers in North Sulawesi, Food and Agriculture Organization of the United Nations (Minahasa) 19 March 2024. Access Date: 28 April 2024. <https://www.fao.org/indonesia/news/detail-events/en/c/1679473/>

¹¹⁷⁶ Ministry of Agriculture & FAO Accelerates Vaccination to Prevent The Re-emergence of FMD Outbreaks, Food and Agriculture Organization of the United Nations (Jakarta) 20 March 2024. Access Date: 28 April 2024. <https://www.fao.org/indonesia/news/detail-events/en/c/1679474/>

¹¹⁷⁷ Mentan Amran Pastikan Tambahan Anggaran Peningkatan Produksi dan Pupuk Bersubsidi Segera Realisasi, Kementerian Pertanian Republik Indonesia (Grobogan) 21 March 2024. Translation provided by Google Translate. Access Date: 28 April 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6017>

¹¹⁷⁸ Catatan Sejarah Bagi Pertanian Indonesia, Mentan Amran Serahkan Total Alokasi Pupuk Subsidi 54 Triliun, Kementerian Pertanian Republik Indonesia (Mamuju) 28 March 2024. Translation provided by Google Translate. Access Date: 28 April 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6026>

¹¹⁷⁹ Kementan Buka Beasiswa SDM Sawit Untuk 3000 Orang, Kementerian Pertanian Republik Indonesia (Jakarta) 14 April 2024. Translation provided by Google Translate. Access Date: 28 April 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6050>

¹¹⁸⁰ Hari Pertama Kerja, Mentan Tancap Gas Cetak Sawah 500 ribu Ha di Merauke, Kementerian Pertanian Republik Indonesia (Merauke) 16 April 2024. Translation provided by Google Translate. Access Date: 28 April 2024. <https://pertanian.go.id/home/?show=news&act=view&id=6052>

rice production.¹¹⁸¹ Minister Sulaiman hopes to reach a target of 2 million tons of rice production to increase domestic need and self-sufficiency.

On 23 April 2024, the Ministry of Agriculture increased the number of water pump units given to Central Java from its original 4,000 units to 10,000 units to accelerate planting in the area and for national rice production.¹¹⁸² The pump assistance will assist 35 districts and cities and greatly aid planting activities.

On 29 April 2024, the Ministry of Agriculture and Iran signed an agreement for agricultural technology cooperation between Indonesia and Iran.¹¹⁸³ In part, the partnership aims to increase sustainable food production and enhance Indonesia's agricultural sector.

Indonesia has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. It has taken actions to facilitate agricultural innovation and productivity through infrastructural investment. It has addressed numerous approaches in creating sustainable and climate-resilient food systems and agriculture through international declarations and agreements, funding agricultural genetic research and educational programmes on permaculture and sustainability, partnerships between different branches of government, monetary and infrastructural assistance to crop productions and land optimization by irrigation efforts.

Thus, Indonesia receives a score of +1.

Analyst: Jackson Leung

Italy: +1

Italy has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 20 January 2024, Minister of Agriculture, Food Sovereignty and Forests Francesco Lollobrigida outlined a series of actions and policies Italy implemented to promote environmental and economic sustainability in the agricultural sector.¹¹⁸⁴ Minister Lollobrigida reported that Italy is investing EUR2.5 billion to strengthen the national agricultural model, emphasizing the importance of the cost of environmental impact and focusing on product quality alongside environmental protection.

On 20 January 2024, Minister Lollobrigida announced that the Mattei Plan is working to support regions with vast arable land in developing training programs and providing technological resources to

¹¹⁸¹ Serahkan Ribuan Pompa Air, Mentan Targetkan Produksi Beras Jawa Timur Bertambah Hingga 2 Juta Ton, Kementerian Pertanian Republik Indonesia (Surabaya) 17 April 2024. Translation provided by Google Translate. Access Date: 28 April 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6058>

¹¹⁸² Dongkrak Produksi Beras Jawa Tengah, Kementan Gelontorkan 10.000 Unit Pompa Air, Kementerian Pertanian Republik Indonesia (Semarang) 23 April 2024. Translation provided by Google Translate. Access Date: 28 April 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6069>

¹¹⁸³ Indonesia Jalin Kerjasama Teknologi Pertanian dengan Iran, Kementerian Pertanian Republik Indonesia (Jakarta) 29 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://pertanian.go.id/home/?show=news&act=view&id=6080>

¹¹⁸⁴ Comunicati stampa, Ministero dell'agricoltura, della sovranità alimentare e delle foreste (Rome) 20 January 2024. Translation provided by Google Translate. Access Date: 20 March 2024. <https://www.politicheagricole.it/gffa-lollobrigida-agricoltura-sostenibile-crescita-demografica>

achieve food self-sufficiency, with the goal to respond to demographic growth through sustainable agriculture.¹¹⁸⁵

On 15 February 2024, Minister Lollobrigida called for proposals for “Fostering Agroecology at farm and landscape levels,” aimed at fostering agroecology and sustainable farming.¹¹⁸⁶

On 11 March 2024, Deputy Prime Minister Antonio Tajani allocated USD7 million to support the delivery of food and agriculture inputs into Gaza.¹¹⁸⁷ Agriculture inputs include animal fodder to sustain animals and “inputs to support the production of nutritious foods like fish, fruits and vegetables.”

On 13 May 2024, the Ministry of Agriculture, Food Sovereignty and Forestry announced that EUR20 billion will be invested into the agricultural and agri-food sector.¹¹⁸⁸ The investment aims to support research for technological innovation, the expansion of agricultural businesses into international markets and the promotion of a circular economy.

Italy has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Italy has pursued commitments that target the sustainable aspect of agriculture and food systems, alongside increasing investments in agricultural productivity and innovation.

Thus, Italy receives a score of +1.

Analyst: Wania Gondal

Japan: 0

Japan has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 11 December 2023, the Japan International Cooperation Agency and Government of the Kyrgyz Republic signed an agreement for Japan to provide up to JPR1,087 million to improve irrigation systems in the Kyrgyz Republic.¹¹⁸⁹ This will improve sustainable agricultural production.

On 20 January 2024, the Vice Minister for International Affairs of the Ministry of Agriculture, Forestry and Fisheries of Japan Ryosuke Ogawa attended the 16th Berlin Agriculture Ministers’ Conference.¹¹⁹⁰ At the conference, he presented Japan’s mission to enhance sustainable global agricultural production while reiterating the importance of following the Strategy for Sustainable Food Systems, MIDORI.

¹¹⁸⁵ Comunicati stampa, Ministero dell'agricoltura, della sovranità alimentare e delle foreste (Rome) 20 January 2024. Translation provided by Google Translate. Access Date: 20 March 2024. <https://www.politicheagricole.it/gffa-lollobrigida-agricoltura-sostenibile-crescita-demografica>

¹¹⁸⁶ Bandi internazionali, Ministero dell'agricoltura, della sovranità alimentare e delle foreste (Rome) 15 February 2024. Translation provided by Google Translate. Access Date: 20 March 2024. <https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/9079>

¹¹⁸⁷ Statement by QU Dongyu, Director-General of the Food and Agriculture Organization of the United Nations, Food and Agriculture Organization of the United Nations (Rome) 11 March 2024. Access Date: 30 April 2024. <https://www.fao.org/newsroom/detail/statement-by-qu-dongyu--director-general-of-fao/en>

¹¹⁸⁸ Accordo Masaf, Cdp e Intesa Sanpaolo: 20 miliardi di euro per l'agricoltura, settore strategico de Paese (Rome) 13 May 2024. Translation provided by Google Translate. Access Date: 13 May 2024. https://www.politicheagricole.it/Accordo_Masaf_Cdp_IntesaSanpaolo

¹¹⁸⁹ Signing of Grant Agreement with the Kyrgyz Republic: Contributing to the efficient use of water resources through support for the maintenance and management of irrigation canals, Japan International Cooperation Agency (Tokyo) 18 December 2023. Access Date: 12 April 2024. https://www.jica.go.jp/english/information/press/2023/20231211_30.html

¹¹⁹⁰ The 16th Berlin Agriculture Ministers’ Conference (January 20, 2024), Ministry of Agriculture, Forestry and Fisheries (Tokyo) 20 January 2024. Access Date: 12 April 2024. https://www.maff.go.jp/e/policies/inter_relate/jan_20.html

Conference participants also adopted the Global Forum for Food and Agriculture 2024 Final Communiqué which outlines commitments towards a One Health approach for sustainable agriculture and food systems.

On 1 February 2024, the Ministry of Agriculture, Forestry and Fisheries of Japan and the US Department of Agriculture met for the US Dialogue on Sustainable Agriculture in Tokyo.¹¹⁹¹ Parties discussed plans to reduce greenhouse gas emissions to achieve sustainable and climate-smart agriculture.

On 19 February 2024, during the Japan-Ukraine Conference for Economic Growth and Reconstruction, eight memorandums of understanding were signed between Japanese companies and Ukraine's Ministry of Agrarian Policy and Food along with Ukrainian businesses and a university to support agricultural productivity in Ukraine.¹¹⁹² The Japanese Ministry of Agriculture, Forestry and Fisheries noted that it will support these agreements by making us of the Japan-Ukraine Joint Task Force on Agricultural Recovery Strategy.

On 20 February 2024, the Japan International Cooperation Agency and Government of India signed several loan agreements for Official Development Assistance from Japan.¹¹⁹³ In part, Japan will provide JPR16,215 million for a horticulture project in the state of Haryana that aims to support socioeconomic advancement through crop diversification and development. This project will contribute to Sustainable Development Goals such as no poverty, zero hunger, decent work and economic growth and climate action.

On 4 March 2024, the Japanese Minister of Agriculture, Forestry and Fisheries Tetsushi Sakamoto met with the Italian Minister of Agriculture, Food Sovereignty and Forestry Francesco Lollobrigida.¹¹⁹⁴ Minister Sakamoto emphasized the need for continued bilateral cooperation between the members in the agricultural and food sectors.

On 25 April 2024, the Japan International Cooperation Agency and Nigeria signed an agreement for Japan to provide JPY15,000 in official development assistance to Nigeria.¹¹⁹⁵ Funding will go towards improving Nigeria's agricultural sector, supporting increased access to agricultural inputs for small-scale producers and increasing agricultural production.

Japan has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Japan has invested in developing climate-smart and sustainable agriculture. It has also signed a Communiqué for sustainable agriculture and food systems and engaged in discussions with

¹¹⁹¹ First Meeting of Japan – U.S. Dialogue on Sustainable Agriculture (February 1, 2024), Ministry of Agriculture, Forestry and Fisheries (Tokyo) 1 February 2024. Access Date: 12 April 2024. https://www.maff.go.jp/e/policies/inter_relate/feb_1.html

¹¹⁹² Japanese Companies and Ukraine's Ministry of Agrarian Policy and Food, and Others Signed Memorandum of Understanding for Agricultural Cooperation, Ministry of Agriculture, Forestry and Fisheries (Tokyo) 19 February 2024. Access Date: 30 April 2024. https://www.maff.go.jp/e/policies/inter_relate/jtf/feb_19.html

¹¹⁹³ Signing of Japanese ODA Loan Agreements with India: Contributing to the deepening of bilateral relations and mutual development between Japan and India by supporting India's achievement of the SDGs, Japan International Cooperation Agency (Tokyo) 20 February 2024. Access Date: 12 April 2024. https://www.jica.go.jp/english/information/press/2023/20240220_31.html

¹¹⁹⁴ Minister Sakamoto Meets with Italian Agricultural Minister, Mr. Francesco LOLLOBRIGIDA (March 4, 2024), Ministry of Agriculture, Forestry and Fisheries (Tokyo) 4 March 2024. Access Date: 30 April 2024. https://www.maff.go.jp/e/policies/inter_relate/mar_4.html

¹¹⁹⁵ Signing of Japanese ODA Loan Agreement with Nigeria: Contributing to food security by supporting the implementation of institutional reforms in the agricultural sector, Japan International Cooperation Agency (Tokyo) 25 April 2024. Access Date: 16 May 2024. https://www.jica.go.jp/english/information/press/2024/20240425_21.html

the US to achieve sustainable and climate-smart agriculture. However, it has not taken strong action to accelerate innovations and investment in at least four commitment components.

Thus, Japan receives a score of 0.

Analyst: Wania Gondal

Korea: 0

Korea has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 12 January 2024, Deputy Minister for the Agricultural Innovation Policy Office, the Ministry of Agriculture, Food and Rural Affairs Soo-jin Park visited Icheon Bioenergy to share the “2030 Strategic Plan to Reduce Greenhouse Gas Emissions and Achieve Green Growth in the Livestock Industry”¹¹⁹⁶ The plan comes as part of the government’s commitment to reduce greenhouse gas emissions in the livestock industry by 18 per cent from 9.4 million tonnes in 2018 to 7.7 million tonnes. This will support sustainable and climate-smart agriculture.

On 14 February 2024, Minister of Agriculture, Food and Rural Affairs Miryung Song visited a smart pig farm in Pyeongtaek where she discussed opportunities for smart farming which aims to improve agricultural production.¹¹⁹⁷

On 19 February 2024, Minister Song attended the three-day virtual 37th Session of the FAO Regional Conference for Asia and the Pacific.¹¹⁹⁸ In her keynote address, Minister Song noted that Korea is prioritizing smart farming, expanding food production and developing international agreements to address global food security.

On 26 February 2024, the Ministry of Agriculture, Food and Rural Affairs and Qatar’s Ministry of Municipality of the State met in Doha for the first Korea-Qatar Smart Farm Cooperation Committee meeting.¹¹⁹⁹ They discussed opportunities for smart agriculture which aims to support climate resilience, research into smart farming technologies and “an investment proposal for construction of the Korean model of a smart farm innovation industrial complex in Qatar.”

On 3 May 2024, Vice Foreign Minister Kang In-Sun met with Senegalese President Bassirou Faye in Dakar to discuss the leaders’ summit for Korea and African countries which will occur between June 4-5 in Seoul.¹²⁰⁰ Minister Kang expects that bilateral cooperation will be further deepened between the two countries particularly in the agricultural sector.

Korea has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Korea has taken part in meetings and has verbally affirmed its commitment towards

¹¹⁹⁶ Low Carbon-Emitting Livestock Industry: Livestock Waste-to-Energy, Ministry of Agriculture, Food and Rural Affairs (Sejong) 16 January 2024. Access Date: 12 April 2024. <https://www.mafra.go.kr/bbs/english/25/569149/artclView.do>

¹¹⁹⁷ Future of Livestock Industry Lies in Smart Livestock Farming, Ministry of Agriculture, Food and Rural Affairs (Sejong) 14 February 2024. Access Date: 12 April 2024. <https://www.mafra.go.kr/bbs/english/25/569465/artclView.do>

¹¹⁹⁸ At 37th Session of FAO APRC, Minister Song Expressed ROK’s Commitment to Stronger Cooperation with International Community to Overcome Global Food Security Challenges, Ministry of Agriculture, Food and Rural Affairs (Sejong) 8 March 2024. Access Date: 12 April 2024. <https://www.mafra.go.kr/bbs/english/25/569690/artclView.do>

¹¹⁹⁹ 1st Meeting of ROK-Qatar Smart Farm Cooperation Committee Boosts Cooperation in Smart Farming, Ministry of Agriculture, Food and Rural Affairs (Sejong) 26 February 2024. Access Date: 12 April 2024. <https://www.mafra.go.kr/bbs/english/25/569561/artclView.do>

¹²⁰⁰ Vice FM discusses upcoming Korea-Africa summit with Senegal’s president, The Korea Times (Seoul). 3 May 2024. Access Date: 13 May 2024. https://www.koreatimes.co.kr/www/nation/2024/05/113_374009.html

smart agriculture and innovation. However, it has not taken strong action to accelerate innovations and investments for the commitment components.

Thus, Korea receives a score of 0.

Analyst: Amoly Agarwal

Mexico: +1

Mexico has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and to build more sustainable and climate-resilient agriculture and food systems.

On 11 December 2023, Secretary of Agriculture Víctor Villalobos Arámbula and Minister of Climate Change and Environment of the United Arab Emirates Mariam Bint Mohammed signed a memorandum of understanding with the objective of cooperation in projects and initiatives related to food security and climate change.¹²⁰¹ The memorandum also aims to carry out research and technological development projects in agriculture, fishing and livestock.

On 20 December 2023, the Ministry of Agriculture and Development announced its plan to work with different avocado producers and packers to form a working commission where they will collaborate with government experts on plant health, soil management, water footprint, sustainable agriculture and efficient water use.¹²⁰² The goal of this measure is to increase the competitiveness and sustainability of the avocado sector.

On 29 December 2023, the Ministry of Agriculture and Development announced an expansion of the current bilateral agreement with Kuwait to strengthen cooperation in promotion of sustainable agricultural crops in arid areas, technological exchange in water management, soil recovery and exchange of researchers.¹²⁰³ The overarching goals of this increased cooperation are to increase agricultural yields while adapting to the impacts of climate change to guarantee the food security of both countries.

On 30 December 2023, the Ministry of Agriculture and Development launched solar thermal systems to dehydrate food in the province of Zacatecas.¹²⁰⁴ The goal of this technology is to reduce loss and waste from the process of dehydration and add value to agri-food chains in Zacatecas by making dehydration more accessible.

¹²⁰¹ Suscriben México y Emiratos Árabes Unidos memorándum de entendimiento en materia agroalimentaria en el marco de la COP28, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 11 December 2023. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/suscriben-mexico-y-emiratos-arabes-unidos-memorandum-de-entendimiento-en-materia-agroalimentaria-en-el-marco-de-la-cop28?idiom=es>

¹²⁰² Fortalecerán Agricultura y aguacateros esquemas fitosanitarios, trazabilidad y sustentables en las regiones productoras, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 20 December 2023. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/fortaleceran-agricultura-y-aguacateros-esquemas-fitosanitarios-trazabilidad-y-sustentables-en-las-regiones-productoras?idiom=es>

¹²⁰³ Ampliarán México y Kuwait cooperación científica-técnica en producción agrícola de zonas áridas e intercambio comercial, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 29 December 2023. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/ampliaran-mexico-y-kuwait-cooperacion-cientifica-tecnica-en-produccion-agricola-de-zonas-aridas-e-intercambio-comercial?idiom=es>

¹²⁰⁴ Tecnología termosolar que reduce pérdidas y desperdicio de productos hortícolas, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 30 December 2023. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/tecnologia-termsolar-que-reduce-perdidas-y-desperdicio-de-productos-horticolos?idiom=es>

On 27 January 2024, the Ministry of Agriculture and Development announced its collaboration with the National Institute of Forestry, Agricultural and Livestock Research and the International Maize and Wheat Improvement Centre to promote the cultivation of pearl millet.¹²⁰⁵ The goal of this initiative is to develop sustainability and climate-resilience since pearl millet is tolerant to drought, has a high water efficiency in irrigation conditions and has a high yield per hectare.

On 3 February 2024, the Ministry of Agriculture and Rural Development announced its plans to develop conservation protocols for vanilla plant tissue, utilising in vitro cultivation and cryopreservation techniques to safeguard the genetic diversity of vanilla orchids.¹²⁰⁶ These efforts aim to ensure the long-term sustainability of vanilla cultivation, contributing to biodiversity and maintaining the viability of the vanilla industry for future generations.

On 9 February 2024, Secretary Arámbula announced proposed amendments to Article 27 of the Constitution to ensure that small-scale producers and fishermen receive direct support free fertilizers annually as well as maintaining guaranteed prices for essential foods.¹²⁰⁷ The goal of these amendments is to ensure the well-being of small-scale agricultural producers.

On 10 February 2024, the Ministry of Agriculture and Rural Development announced its project to establish meadows with buffel grass in northern Coahuila.¹²⁰⁸ This project aims to enhance the availability of good quality forage, increase meat production per hectare by up to 300 per cent, improve persistence to prolonged droughts, increase soil coverage and reduce water loss.

On 22 March 2024, the Secretariat of Agriculture and Rural Development, the Government of Coahuila and the Antonio Narro Autonomous Agrarian University inaugurated the Research and Technology Transfer Institute for Arid Zones (IITZA).¹²⁰⁹ IITZA will focus its research on sustainable agriculture in arid regions, water management, crop improvement and the development of technologies for environmental conservation.

On 12 April 2024, the Ministry of Agriculture and Rural Development placed a limit on the allowable catch for olive ridley curvina fish in the Upper Gulf of California and the Colorado River Delta up to

¹²⁰⁵ Promueve Agricultura cultivo de mijo como forraje y para atender la sequía y desertificación, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 27 January 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/promueve-agricultura-cultivo-de-mijo-como-forraje-y-para-atender-la-sequia-y-desertificacion?idiom=es>

¹²⁰⁶ Protege Agricultura recursos genéticos de la orquídea de la vainilla; tiene impacto económico, cultural, ecológico y social, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 3 February 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/protege-agricultura-recursos-geneticos-de-la-orquidea-de-la-vainilla-tiene-impacto-economico-cultural-ecologico-y-social?idiom=es>

¹²⁰⁷ Garantizarán iniciativas de reforma apoyos y bienestar a productores y pescadores, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 9 February 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/garantizaran-iniciativas-de-reforma-apoyos-y-bienestar-a-productores-y-pescadores?idiom=es>

¹²⁰⁸ Reconversión de pastos, una oportunidad para la ganadería en Coahuila: Agricultura, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 10 February 2024. Translation provided by Google Translate. Access Date: 18 March 2024. <https://www.gob.mx/agricultura/prensa/reconversion-de-pastos-una-oportunidad-para-la-ganaderia-en-coahuila-agricultura?idiom=es>

¹²⁰⁹ Unen esfuerzos para impulsar investigación aplicada en el desarrollo agropecuario de zonas áridas y semiáridas del país, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 22 March 2024. Translation provided by Google Translate. Access Date: 30 April 2024. <https://www.gob.mx/agricultura/prensa/unen-esfuerzos-para-impulsar-investigacion-aplicada-en-el-desarrollo-agropecuario-de-zonas-aridas-y-semiaridas-del-pais>

a total weight of 4,113 tons for the 2024 season.¹²¹⁰ This quota aims to promote sustainable fishing practices.

On 16 April 2024, the Secretariat of Agriculture and Rural Development signed a technical cooperation agreement with Palestine's Ministry of Agriculture for increased partnership around agricultural production, plant and animal health, the re-establishment of food systems and trade.¹²¹¹

On 20 April 2024, the National Institute of Forestry, Agricultural and Livestock Research designed a technical guide to enhance the quality and quantity of strawberry production.¹²¹² The guide establishes fruit management protocols, aiming to align practices with best agricultural standards.

Mexico has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and building more sustainable and climate-resilient agriculture and food systems. It has taken actions in all the following categories: accelerating innovations and investment to increase agricultural productivity, building more sustainable agriculture and food systems, and building more climate-resilient agriculture and food systems. It has addressed agricultural productivity by fostering international cooperation to increase productivity and increasing access to fertilisers and technological innovations in agriculture.

Thus, Mexico receives a score of +1.

Analyst: Hamza Noor

Russia: 0

Russia has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity and to build more sustainable and climate-resilient agriculture and food systems.

On 4 December 2023, Russia announced the allocation of over RUB3 billion in the 2024 budget for “the implementation of new and planned projects regarding the digital transformation of the agro-industrial sector.”¹²¹³ Russia also announced the allocation of RUB8.5 billion to improve the efficiency of land reclamation and improve agro-industrial growth. This includes the expansion of research on seed production and breeding practices and setting parameters that promote increased food production and security.

¹²¹⁰ Establece Agricultura cuota de captura de curvina golfinia en el Alto Golfo de California y Delta del Río Colorado, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 12 April 2024. Translation provided by Google Translate. Access Date: 30 April 2024. <https://www.gob.mx/agricultura/prensa/establece-agricultura-cuota-de-captura-de-curvina-golfinia-en-el-alto-golfo-de-california-y-delta-del-rio-colorado?idiom=es>

¹²¹¹ México fortalece relaciones de cooperación con la Liga de Estados Árabes, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 16 April 2024. Translation provided by Google Translate. Access Date: 16 May 2024. <https://www.gob.mx/agricultura/prensa/mexico-fortalece-relaciones-de-cooperacion-con-la-liga-de-estados-arabes-362253?idiom=es>

¹²¹² Diseñan guía técnica para manejo adecuado de plantas de fresa, que contribuye a aumentar la calidad y producción del fruto, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 20 April 2024. Translation provided by Google Translate. Access Date: 30 April 2024. <https://www.gob.mx/agricultura/prensa/disenan-guia-tecnica-para-manejo-adecuado-de-plantas-de-fresa-que-contribuye-a-aumentar-la-calidad-y-produccion-del-fruto?idiom=es>

¹²¹³ Meeting with Deputy Prime Ministers on Current Issues, The Russian Government (Moscow) 4 December 2023. Access Date: 17 March 2024. <http://government.ru/en/news/50309/>

On 8 December 2023, Russia announced that Moscow will host the tenth session of the Russian-Namibian Commission on Trade and Economic Cooperation in March 2024.¹²¹⁴ The Russian delegation has suggested intensifying cooperation in energy, agriculture, and aquaculture.

On 11 December 2023, Russia introduced a temporary restriction of the export of durum wheat, effective until 31 May 2024.¹²¹⁵ The suspension aims to support domestic food security while maintaining price stability for durum wheat products. The declaration lists several exceptions to the export ban particularly for humanitarian assistance or adhering to international agreements.

On 9 January 2024, Russia announced an allocation of RUB8 billion for subsidies and state assistance for farms.¹²¹⁶ Every region will assess its priorities independently and select qualified expenses for compensation. Of this, a minimum amount of RUB1.5 million has been designated for the recipients of Agro-startup grants.

On 12 February 2024, Russia announced the allocation of RUB20 billion to the Ministry of Agriculture to improve the “the efficiency of state support instruments for the agro-industrial complex, including soft loans.”¹²¹⁷ The funds will provide farms with short-term loans at a reduced rate with flexible implementation options. The financing expands agricultural production and makes major investment projects in the industry possible.

On 15 March 2024, Russia announced the allocation of an additional RUB7 billion to provide subsidies to farmers who grow grain in an effort to increase the volume of the federal agricultural produce fund.¹²¹⁸ This aims to stabilize agricultural produce prices and reduce potential risks for processing companies and consumers.

Russia has partially complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Russia has announced investments to increase agricultural productivity and in turn improve sustainable agricultural practices. However, it has not taken action to build more climate-resilient agriculture and food systems.

Thus, Russia receives a score of 0.

Analyst: Nikita Joshi

Saudi Arabia: -1

Saudi Arabia has failed to comply with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 3 December 2023, Minister of Environment, Water and Agriculture Abdulrahman Alfadley and Türkiye’s Minister of Agriculture and Forestry Ibrahim Yumakli signed a Memorandum of

¹²¹⁴ Meeting of the Co-Chairs in the Intergovernmental Russian-Namibian Commission on Trade and Economic Cooperation Held in Windhoek, The Russian Government (Moscow) 8 December 2023. Access Date: 17 March 2024. <http://government.ru/en/news/50361/>

¹²¹⁵ Government Introduces Temporary Ban on Durum Grain Exports, The Russian Government (Moscow) 11 December 2023. Access Date: 17 March 2024. <http://government.ru/en/docs/50384/>

¹²¹⁶ Meeting with Deputy Prime Ministers on Current Issues, The Russian Government (Moscow) 9 January 2024. Access Date 17 March 2024. <http://government.ru/en/news/50601/>

¹²¹⁷ Meeting with Deputy Prime Ministers on Current Issues, The Russian Government (Moscow) 12 February 2024. Access Date: 17 March 2024. <http://government.ru/en/news/50849/>

¹²¹⁸ Government Meeting, The Russian Government (Moscow) 15 March 2024. Access Date: 17 March 2024. <http://government.ru/en/news/51110/>

Cooperation for agriculture.¹²¹⁹ The partnership will focus on agricultural innovations, supporting plant and animal health, climate adaptation and sustainable agriculture.

On 4 December, Deputy Minister for Environment Osama Faqeha attended the third Saudi Green Initiative Forum.¹²²⁰ During his speech, he noted that Saudi Arabia aims to reduce food loss and waste by 50 per cent and food supply chain related emissions by 33 per cent to advance environmental objectives.

On 9 May 2024, Minister of Environment, Water, and Agriculture Abdulrahman Alfadley met with the Ivorian Minister of Foreign Affairs, African Integration, and Ivorians Abroad to discuss the enhancement of joint efforts in agricultural investment, livestock and food security.¹²²¹

Saudi Arabia has failed to comply with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Saudi Arabia has taken action towards the commitment through a verbal reaffirmation and memorandum of cooperation. However, it has not taken the minimum number of actions necessary for partial compliance.

Thus, Saudi Arabia receives a score of -1 .¹²²²

Analyst: Therese Angeline Reyes

South Africa: -1

South Africa has failed to comply with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 25 January 2023, representatives of the Ministry of Trade and Industry and the Ministry of Agriculture, Land Reform and Rural Development held negotiations with the Eurasian Economic Commission to discuss the field of agriculture, including topics such as the certification of organic products, precision farming and the digitalization of agriculture.¹²²³ Both parties agreed on a mutual exchange of public analytics and the need to study possible mechanisms for increasing the supply of agricultural products.

On 19 March 2024, President Cyril Ramaphosa emphasized the government's implementation of various agriculture programs and initiatives, including the signing of the Agriculture and Agro-

¹²¹⁹ Memorandum of Understanding between Saudi Arabia and Türkiye in the fields of Agriculture, water management & livestock, Ministry of Environment, Water and Agriculture (Riyadh) 3 December 2023. Access Date: 12 April 2024. <https://mewa.gov.sa/en/MediaCenter/News/Pages/engnews2248.aspx>

¹²²⁰ MEWA: COP16 aims to recognize the phenomenon of drought and promote cooperation in rehabilitating lands, Ministry of Environment, Water and Agriculture (Riyadh) 4 December 2023. Access Date: 12 April 2024. <https://mewa.gov.sa/en/MediaCenter/News/Pages/engnews2251.aspx>

¹²²¹ MEWA Minister Meets with Ivorian Officials to Boost Investment Opportunities in Agriculture and Livestock, Minister of Environment, Water and Agriculture (Riyadh) 9 May 2024. Access Date: 13 May 2024. <https://mewa.gov.sa/en/MediaCenter/News/Pages/News9192020.aspx>

¹²²² This score of non-compliance was determined after searching the following websites: <https://mewa.gov.sa/en/Pages/default.aspx>, <https://www.mofa.gov.sa/en/ministry/news/Pages/default.aspx>, <https://english.aawsat.com/>, <https://english.alarabiya.net/>, <http://www.daff.gov.za/>, <https://www.timeslive.co.za/>, <https://www.sanews.gov.za/>

¹²²³ EEC and relevant ministries of South Africa discussed prospects for cooperation, Eurasian Economic Commission (Moscow) 26 January 2024, Access Date: 19 March 2024. <https://eec.eaeunion.org/en/news/EEK-i-profilnye-ministerstva-yuar-obsudili-perspektivy-sotrudnichestva/>

processing Master Plan, focused on supporting the acceleration of land reform and actions for the private sector to support black farmers and small, medium and micro enterprises.¹²²⁴

South Africa has failed to comply with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. South Africa has taken weak actions to increase agricultural productivity but it has not taken action to accelerate innovations and investments for sustainable and climate-resilient agriculture and food systems.

Thus, South Africa receives a score of –1.

Analyst: Esther Thomas

Türkiye: +1

Türkiye has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 3 December 2023, Minister of Agriculture and Forestry Ibrahim Yumakli and Saudi Arabia's Minister of Environment, Water and Agriculture Abdulrahman Alfadley signed a Memorandum of Cooperation on agricultural cooperation.¹²²⁵ The partnership will focus on agricultural innovations, supporting plant and animal health, climate adaptation and sustainable agriculture.

On 16 January 2024, the government disclosed a budget allocation of TRY101 billion to the agricultural sector.¹²²⁶ This 132 per cent annual rise in funding signals its effort to accelerate investments in agriculture aimed at strengthening infrastructure and sustainability initiatives within the sector.

On 26 January 2024, the Ministry of Agriculture and Forestry announced its intention to provide 527 water and irrigation facilities in 2024. The emphasis was placed on promoting modern innovations such as pressurized irrigation networks and integrating artificial intelligence into flood detection systems.¹²²⁷ The investment will further enhance Türkiye's sustainable water management efforts and incentivize innovation to combat future flood-related climate disasters.

On 8 February 2024, the General Directorate of Crop Production of the Ministry of Agriculture and Forestry allocated TRY200 million to activate 11 unused agricultural lands in earthquake-affected provinces centered in Kahramanmaraş.¹²²⁸ The plan aims to stimulate regional agricultural productivity

¹²²⁴ Government harnessing Land Reform to support growth of agriculture and job creation, South African Government News Agency (Pretoria), 19 March 2024, Access Date: 19 March 2024. <https://www.sanews.gov.za/south-africa/government-harnessing-land-reform-support-growth-agriculture-and-job-creation>

¹²²⁵ Memorandum of Understanding between Saudi Arabia and Türkiye in the fields of Agriculture, water management & livestock, Ministry of Environment, Water and Agriculture (Riyadh) 3 December 2023. Access Date: 12 April 2024. <https://mewa.gov.sa/en/MediaCenter/News/Pages/engnews2248.aspx>

¹²²⁶ Türkiye earmarks over \$35.5B for more than 12,000 projects in 2024, Daily Sabah (Istanbul) 16 January 2024. Access Date: 10 March 2024. <https://www.dailysabah.com/business/economy/turkiye-earmarks-over-355b-for-more-than-12000-projects-in-2024>

¹²²⁷ Bakan Yumakli: "2024'Te 527 Su Ve Sulama Tesisini Hizmete Sunmayi Hedefliyoruz," T.C. Tarim Ve Orman Bakanlığı (Ankara) 26 January 2024. Translation provided by Google Translate. Access Date: 12 March 2024. <https://www.tarimorman.gov.tr/Haber/6171/Bakan-Yumakli-2024te-527-Su-Ve-Sulama-Tesisini-Hizmete-Sunmayi-Hedefliyoruz>

¹²²⁸ Deprem Bölgesindeki Atıl Tarım Arazileri Fide Ve Tohum Desteğiyle Üretime Kazandırılıyor, T.C. Tarim Ve Orman Bakanlığı (Ankara) 08 February 2024. Translation provided by Google Translate. Access Date: 10 March 2024. <https://www.tarimorman.gov.tr/Haber/6194/Deprem-Bolgesindeki-Atil-Tarim-Arazileri-Fide-Ve-Tohum-Destegiyle-Uretime-Kazandiriliyor>

by targeting idle lands for cultivation and further prioritizes support for producers in earthquake-affected zones.

On 13 February 2024, Minister of Agriculture and Forestry Ibrahim Yumakli announced the commencement of the ministry's recruitment of agriculture workers for its provincial organization.¹²²⁹ The ministry aims to recruit 1,500 new workers. The hiring initiative is aimed at driving productivity in the agricultural sector by investing in human capital and ensuring the long-term sustainability of agricultural practices.

On 18 February 2024, Minister Yumakli and World Water Council President Loic Fauchon signed a memorandum of understanding at the 86th Governors' Meeting of the World Water Council, outlining Türkiye's commitment to equitable use of water in line with its 2030 Sustainable Development Goals.¹²³⁰ The agreement promotes ongoing dialogue grounded in the principles of effective water usage, ensuring accountability for Türkiye and neighbouring countries and sets a standard to avoid potential water scarcity post-humanitarian crises.

On 26 February 2024, Minister Yumakli introduced a 10-item Livestock Road Map to be implemented between 2024-2028.¹²³¹ The initiative prioritizes animal production planning, provides increased support for livestock enterprises, empowers women and young producers in rural areas and focuses on disease management and genetic improvement programs to improve the quality and productivity of livestock breeds.

On 18 April 2024, Minister Yumakli and Azerbaijan's Minister of Agriculture Mecnun Memmedov signed a declaration of intent for cooperation for agricultural research and development.¹²³² Topics of cooperation will include plant and animal production and irrigation.

On 1 May 2024, the Ministry of Agriculture and Forestry and Food and Agricultural Organization of the United Nations (FAO) implemented Farmer Field Schools (FFS) in Bolu under the "Enhancement of agro-ecological management system through promoting ecosystem-oriented food production" project.¹²³³ With FFS and its emphasis on cultivation techniques based on the "specific climate and phenological characteristics of Bolu," Türkiye is working towards a climate-resilient food system.

On 7 May 2024, the Ministry of Agriculture and Forestry and FAO led a workshop in Diyarbakir for the "Integrating Good Agriculture Practices to Ameliorate Agricultural Ecosystems in the Earthquake-affected Region in Türkiye" project.¹²³⁴ Assistant Representative of FAO-Türkiye Ayşegül Selişik noted

¹²²⁹ Tarım Ve Orman Bakanlığı 1.500 Tarım İşçisi İstihdamı Sürecini Başlattı, T.C. Tarım Ve Orman Bakanlığı (Ankara) 13 February 2024. Translation provided by Google Translate. Access Date: 12 March 2024.

¹²³⁰ Türkiye commits to water conservation, makes significant investments, Daily Sabah (Istanbul) 18 February 2024. Access Date: 16 March 2024. <https://www.dailysabah.com/turkiye/turkiye-commits-to-water-conservation-makes-significant-investments/news>

¹²³¹ Bakan Yumakli, 2024-2028 Yillarında Uygulanacak Hayvancilik Yol Haritasini Açıkladi, T.C. Tarım Ve Orman Bakanlığı (Ankara) 26 February 2024. Access Date: 10 March 2024. <https://www.tarimorman.gov.tr/Haber/6211/Bakan-Yumakli-2024-2028-Yillarinda-Uygulanacak-Hayvancilik-Yol-Haritasini-Acıkladi>

¹²³² Bakan Yumakli Azerbaycan Tarım Bakani Memmedov İle Bir Araya Geldi, T.C. Tarım Ve Orman Bakanlığı (Ankara) 18 April 2024. Access Date: 16 May 2024. <https://www.tarimorman.gov.tr/Haber/6264/Bakan-Yumakli-Azerbaycan-Tarim-Bakani-Memmedov-Ile-Bir-Araya-Geldi>

¹²³³ FAO and the Ministry of Agriculture and Forestry jointly implement Famer Field Schools on agroecology in Bolu, Food and Agriculture Organization of the United Nations (Ankara) 1 May 2024. Access Date: 13 May 2024. <https://www.fao.org/turkiye/news/detail-news/en/c/1681802/>

¹²³⁴ FAO and the Ministry of Agriculture and Forestry launch a new project for earthquake affected region, Food and Agriculture Organization of the United Nations (Ankara) 7 May 2024. Access Date: 13 May 2024. <https://www.fao.org/turkiye/news/detail-news/en/c/1681807/>

that this project aims to promote good agricultural practices while strengthening climate-resilient production in earthquake affected provinces.

Türkiye has fully complied with accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. Actions from Türkiye have employed collaborative measures to improve effective water management through international partnerships. Their initiatives have implemented modern irrigation systems and land activation in disaster-prone regions. The Livestock Road Map and recruitment of skilled labour further demonstrate their commitment to long-term sustainable agricultural practices. They have also facilitated agricultural innovation through government investments, prioritizing food quality standards and providing workshops to local farmers. These actions not only address the country's pressing challenges of food security and climate disasters but promote shifts towards sustainable water management and agricultural practices.

Thus, Türkiye receives a score of +1.

Analyst: Chidera Uduji

United Kingdom: +1

The United Kingdom has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems.

On 2 December 2023, the Government of the United Kingdom announced GBP100 million in funding to support climate-vulnerable countries.¹²³⁵ Funding includes up to GBP18 million to strengthen health systems which will in turn support food systems by managing the impacts of climate change, addressing food shortages and waste and water insecurity.

On 4 December 2023, Prime Minister Rishi Sunak announced GBP484 million in funding for climate resilience developments in developing countries as part of a GBP1.6 billion climate aid plan.¹²³⁶ Of this, GBP9 million will go towards the Emerging Markets Climate Action Fund which invests in businesses such as ARCH Cold Chain Solutions East Africa Fund who prioritize food and medication protection in light of climate change.

On 27 December 2023, the Government of the United Kingdom announced GBP66.7 million in funding for the International Fund for Agricultural Development.¹²³⁷ Funding will support food security, address poverty and promote environmentally friendly and climate-resilient agricultural production and food systems.

¹²³⁵ £100 million for vulnerable countries tackling climate change, Foreign, Commonwealth & Development Office, Ministry of Defence and Department for Energy Security and Net Zero (London) 2 December 2023. Access Date: 12 April 2024. <https://www.gov.uk/government/news/100m-for-vulnerable-countries-tackling-climate-change>

¹²³⁶ UK generates billions in climate finance and first CRDC in Africa, HM Treasury, Foreign, Commonwealth & Development Office, Department for Energy Security and Net Zero, Baroness Vere of Norbiton and The Rt Hon Andrew (London) 4 December 2023. Access Date: 12 April 2024. <https://www.gov.uk/government/news/uk-generates-billions-in-climate-finance-and-first-crdc-in-africa>

¹²³⁷ New funding for farmers feeding the world, Foreign, Commonwealth & Development Office and The Rt Hon Andrew Mitchell MP (London) 27 December 2023. Access Date: 12 April 2024. <https://www.gov.uk/government/news/new-funding-for-farmers-feeding-the-world>

On 4 January 2024, Environment Secretary Steve Barclay announced over 50 new actions for which farmers can be paid.¹²³⁸ Actions include those related to agricultural technology and agroforestry. The goal is to pay farmers for actions already in place to maintain habitats and incentivize them to continue taking related actions.

On 9 January 2024, the Rural Payments Agency announced increased scheme payment rates for existing Sustainable Farming Incentive (SFI) Pilot and 2023 agreements and new applications received in 2024.¹²³⁹ Increases in scheme payment rates aim to reflect market conditions and support farm businesses.

On 13 February 2024, the Department for Environment, Food & Rural Affairs announced additions to its existing SFI and Countryside Stewardship (CS).¹²⁴⁰ SFI and CS has now expanded to support more sectors, provide free vet visits and support for endemic disease management. The goal is to help farms protect and enhance the welfare of farm animals.

On 20 February 2024, Prime Minister Sunak announced at the National Farmers Union Conference that the UK government will provide EUR427 million in grants to support farmers in the financial year.¹²⁴¹ Grants will offer funding for technology and productivity schemes, support farmers despite growing inflation and promote innovation in agriculture.

On 20 February 2024, Prime Minister Sunak announced at the National Farmers Union Conference the creation of the annual Food Security Index to monitor levels of food security in the United Kingdom, alongside EUR15 million in funding to reduce food waste from farms.¹²⁴² The aim is to monitor food security more closely in the United Kingdom.

The United Kingdom has fully complied with its commitment to accelerating innovations and investment focused on increasing agricultural productivity to build more sustainable and climate-resilient agriculture and food systems. The United Kingdom has made significant investments in promoting innovation and targeted action in the agriculture industry, supporting farmers by making environmental schemes and regulations more attractive, fair and workable and investing in sustainable food production and animal welfare. The UK has also invested substantially in developing climate-resilient and sustainable agriculture and food systems internationally.

Thus, the United Kingdom receives a score of +1.

Analyst: Esther Thomas

¹²³⁸ Biggest Upgrade to UK Farming Schemes Introduced by the Government Since Leaving the EU, Department for Environment, Food & Rural Affairs and The Rt Hon Steve Barclay MP (London) 4 January 2024. Access Date: 19 March 2024. <https://www.gov.uk/government/news/biggest-upgrade-to-uk-farming-schemes-introduced-by-the-government-since-leaving-the-eu>

¹²³⁹ Payment Rates From January 2024: Sustainable Farming Incentive, Rural Payments Agency (London) 9 January 2024. Access Date: 19 March 2024. <https://www.gov.uk/government/publications/payment-rates-from-january-2024-sustainable-farming-incentive>

¹²⁴⁰ Spotlight on Updates and Additions to Livestock and Grassland Offer, Department for Environment, Food & Rural Affairs (London) 13 February 2024. Access Date: 19 March 2024. <https://defrafarming.blog.gov.uk/2024/02/13/spotlight-on-updates-and-additions-to-livestock-and-grassland-offer/>

¹²⁴¹ NFU24: Prime Minister addresses NFU Conference, National Farmers Union of England and Wales (Warwickshire) 20 February 2024. Access Date: 19 March 2024. <https://www.nfuonline.com/updates-and-information/nfu24-prime-minister-addresses-nfu-conference/>

¹²⁴² NFU24: Prime Minister addresses NFU Conference, National Farmers Union of England and Wales (Warwickshire) 20 February 2024. Access Date: 19 March 2024. <https://www.nfuonline.com/updates-and-information/nfu24-prime-minister-addresses-nfu-conference/>

United States: +1

The United States has fully complied with its commitment to accelerating innovations, and investment focused on increasing agricultural productivity, to build more sustainable and climate-resilient agriculture and food systems.

On 22 January 2024, Secretary of Agriculture Tom Vilsack announced USD207 in funding for clean energy and domestic fertilizer projects.¹²⁴³ Funding aims to increase the competitiveness of the agricultural sector, reduce operational costs and ensure agricultural producers benefit from renewable energy.

On 29 January 2024, the Department of Agriculture announced the launch of the Assisting Specialty Crop Exports initiative which will provide USD65 million to help the specialty crop sector increase global exports, expand into new markets and directly benefit the local agricultural sector.¹²⁴⁴

On 7 February 2024, the Department of Agriculture awarded USD270 million in cooperative agreements to state departments of agriculture.¹²⁴⁵ The funding aims to build stronger ties between food supply chains and strengthen regional food systems.

On 7 February 2024, Secretary Vilsack announced USD270 million for grants to build resilient agriculture and food systems.¹²⁴⁶

On 12 February 2024, the Department of Agriculture announced that the Working Lands Climate Corps will train young people on climate-smart agricultural practices and solutions.¹²⁴⁷ This will address climate related challenges affecting farms in the US while supporting economic growth.

On 13 March 2024, the Department of Agriculture announced USD138 million in aid from the President's Inflation Reduction Act to support the climate-smart conservation of wetlands, grasslands and prime farmlands.¹²⁴⁸ This will support the climate-resilience of agricultural communities in the US.

On 14 March 2024, the Department of Agriculture's Agricultural Marketing Service announced USD40.5 million for 60 projects for producers of organic foods to improve production capacity, access

¹²⁴³ Biden-Harris Administration Invests \$207 Million in Clean Energy and Domestic Fertilizer Projects to Strengthen American Farms and Businesses as part of Investing in America Agenda, U.S. Department of Agriculture (Washington D.C.) 22 January 2024. Access Date: 12 April 2024. <https://www.usda.gov/media/press-releases/2024/01/22/biden-harris-administration-invests-207-million-clean-energy-and>

¹²⁴⁴ Biden-Harris Administration Announces Investments to Strengthen U.S. Specialty Crops Sector, U.S. Department of Agriculture (Washington D.C.) 29 January 2024. Access Date: 19 March 2024. <https://www.usda.gov/media/press-releases/2024/01/29/biden-harris-administration-announces-investments-strengthen-us>

¹²⁴⁵ USDA Announces \$270 Million Awarded to Build Food Supply Chain Resiliency, U.S. Department of Agriculture (Washington D.C.) 7 February 2024. Access Date: 12 April 2024. <https://www.ams.usda.gov/press-release/usda-announces-270-million-awarded-build-food-supply-chain-resiliency>

¹²⁴⁶ USDA Announces \$270 Million Awarded to Build Food Supply Chain Resiliency, U.S. Department of Agriculture (Washington D.C.) 7 February 2024. Access Date: 12 April 2024. <https://www.usda.gov/media/press-releases/2024/02/07/usda-announces-270-million-awarded-build-food-supply-chain>

¹²⁴⁷ As part of President Biden's American Climate Corps, USDA Launches New Working Lands Climate Corps to Train Future Conservation and Climate Leaders on Climate-Smart Agriculture, U.S. Department of Agriculture (San Diego) 12 February 2024. Access Date: 12 April 2024. <https://www.usda.gov/media/press-releases/2024/02/12/part-president-bidens-american-climate-corps-usda-launches-new>

¹²⁴⁸ Agricultural Producers to Conserve Land through Climate-Smart Easements as part of President's Biden's Investing in America Agenda, U.S. Department of Agriculture (Washington D.C.) 13 March 2024. Access Date: 12 April 2024. <https://www.usda.gov/media/press-releases/2024/03/13/agricultural-producers- conserve-land-through-climate-smart>

markets and new technologies and purchase technologies as needed.¹²⁴⁹ Recipients include Big Sandy Organics, LLC which received a grant to increase the agricultural production of organic grains and pulse crops. Funding for this initiative is provided through the Organic Market Development Grant program.

On 24 April 2024, the National Institute of Food and Agriculture (NIFA) announced USD180,000 in funding for an Inquiring Systems, Inc. project for research to address responses to extreme weather events like flooding which threaten agricultural production and food supply.¹²⁵⁰ Funding will be provided through the “Rapid Response to Extreme Weather Events Across Food and Agriculture Systems” program.

On 25 April 2024, NIFA and the National Science Foundation announced a joint initiative for research in agricultural robotics.¹²⁵¹ The use of robotics in agricultural practices presents opportunities for increased agricultural production and precision while reducing environmental impacts and improving the resiliency of food systems overall.

On 1 May 2024, NIFA announced USD600,000 in funding to the University of North Carolina and Louisiana State University to research responses to extreme weather events like winter storms which threaten agricultural production.¹²⁵² Funding will be provided through the “Rapid Response to Extreme Weather Events Across Food and Agriculture Systems” program.

The United States has fully complied with its commitment to accelerating innovations, and investment focused on increasing agricultural productivity, to build more sustainable and climate-resilient agriculture and food systems. The US has made significant investments to build sustainable and climate-resilient agriculture and food systems through the Inflation Reduction Act, grants, cooperative agreements and clean energy and fertilizer projects. It has also established training for climate-smart agricultural practices.

Thus, the United States receives a score of +1.

Analyst: Sze Wun Beatrice Ng and Ysabel Atienza

European Union: +1

The European Union has fully complied with its commitment to accelerating innovations, and investment focused on increasing agricultural productivity, to build more sustainable and climate-resilient agriculture and food systems.

¹²⁴⁹ USDA Announces \$40.5 Million in Grant Awards to Support Processing and Promotion of Domestic Organic Products, U.S. Department of Agriculture (Anaheim) 14 March 2024. Access Date: 16 May 2024. <https://www.usda.gov/media/press-releases/2024/03/14/usda-announces-405-million-grant-awards-support-processing-and>

¹²⁵⁰ NIFA Invests \$180K in Response to Extreme Weather Events Across the U.S. (AFRI A1712), National Institute for Food and Agriculture (Washington D.C.) 23 April 2024. Access Date: 13 May 2024. <https://www.nifa.usda.gov/about-nifa/announcements/nifa-invests-180k-response-extreme-weather-events-across-us-afri-a1712>

¹²⁵¹ NSF and USDA Join Forces to Boost Innovation in Agricultural Robotics, National Institute for Food and Agriculture (Washington D.C.) 25 April 2024. Access Date: 13 May 2024. <https://www.nifa.usda.gov/about-nifa/press-releases/nsf-usda-join-forces-boost-innovation-agricultural-robotics>

¹²⁵² NIFA Invests \$600K in Response to Extreme Weather Events Across the U.S. (AFRI A1712), National Institute for Food and Agriculture (Washington D.C.) 1 May 2024. Access Date: 13 May 2024. <https://www.nifa.usda.gov/about-nifa/announcements/nifa-invests-600k-response-extreme-weather-events-across-us-afri-a1712>

On 7 December 2023, the European Commission adopted new guidelines for agricultural sustainability agreements.¹²⁵³ In part, guidelines define sustainability objectives such as environmental protection, pesticide reduction, addressing antimicrobial resistance and animal health and welfare to be pursued through the agreements.

On 8 December 2023, the Council of the EU approved a 2024 fishing deal between the EU and UK.¹²⁵⁴ The deal determines the EU's fishing rights for the Atlantic and North Sea while prioritizing the long-term sustainability of fishing.

On 17 January 2024, the European Commission approved two plans by Czechia to prevent poultry and pig diseases.¹²⁵⁵ The plans will invest EUR1.46 billion to support farmers in preventing avian influenza, salmonella, porcine reproductive and respiratory syndrome and other diseases while enhancing biosecurity. This aims to improve food security and ensure access to safe food.

On 19 January 2024, the European Economic and Social Committee (EESC) noted that it seeks to establish the foundation for a resilient and sustainable post-2027 Common Agricultural Policy (CAP) that supports both farmers and society.¹²⁵⁶ The post-2027 CAP will focus on sustainable food production, climate-resilient agriculture, environmental impacts and diverse farming needs.

On 22 February 2024, the European Commission announced over EUR233 million for twelve environment and climate projects across Europe.¹²⁵⁷ Of these, the ACE LIFE project aims to establish carbon neutrality in Finland by 2035, in part through the reduction of agricultural emissions.

On 12 March 2024, the European Commission announced a communication that outlines ways in which the EU can mitigate climate impacts.¹²⁵⁸ This includes enhancing climate resilience through improved governance, structural policies and increased consideration of climate adaptation in natural ecosystems, water, health, food, infrastructure and the economy.

On 14 March 2024, the European Commission announced EUR50 million for small and medium-sized agricultural businesses in Bulgaria, Latvia, Lithuania, Poland and Portugal.¹²⁵⁹ Funding will be provided through Lithuania's HeavyFinance credit fund which the European Investment Fund has provided with EUR20 million in financing. This will enable agricultural producers to develop sustainable agriculture by reducing carbon emissions through soil-friendly techniques which include

¹²⁵³ Commission adopts antitrust Guidelines for sustainability agreements in agriculture, European Commission (Brussels) 7 December 2023. Access Date: 12 April 2024.

https://ec.europa.eu/commission/presscorner/detail/en/ip_23_6370

¹²⁵⁴ Council approves EU-UK fishing deal for 2024, Council of the EU (Brussels) 8 December 2023. Access Date: 12 April 2024. <https://www.consilium.europa.eu/en/press/press-releases/2023/12/08/council-approves-eu-uk-fishing-deal-for-2024/>

¹²⁵⁵ Commission approves €1.46 billion Czech State aid schemes to support prevention of spread of poultry and pig diseases, European Commission (Brussels) 17 January 2024. Access Date: 12 April 2024.

https://ec.europa.eu/commission/presscorner/detail/en/ip_24_223

¹²⁵⁶ Shaping the future of European agriculture: the EESC calls for resilience and sustainability, European Economic and Social Committee (Brussels) 19 January 2024. Access Date: 13 May 2024. <https://www.eesc.europa.eu/en/news-media/news/shaping-future-european-agriculture-eesc-calls-resilience-and-sustainability>

¹²⁵⁷ Commission invests over €233 million in Strategic Environment and Climate Projects across Europe, European Commission (Brussels) 22 February 2024. Access Date: 12 April 2024.

https://ec.europa.eu/commission/presscorner/detail/en/ip_24_949

¹²⁵⁸ Commission sets out key steps for managing climate risks to protect people and prosperity, European Commission (Strasbourg) 12 March 2024. Access Date: 12 April 2024.

https://ec.europa.eu/commission/presscorner/detail/en/ip_24_1385

¹²⁵⁹ Agricultural SMEs to get €50 million to support decarbonisation as Lithuanian fintech HeavyFinance teams up with EIF and InvestEU, European Commission (Brussels) 14 March 2024. Access Date: 12 April 2024.

https://ec.europa.eu/commission/presscorner/detail/en/ip_24_1435

reduced fertilizer use and “no-till farming.” In turn, this will also contribute to climate resilience and aims to enable growth and new jobs in the sector.

The European Union has fully complied with its commitment to accelerating innovations, and investment focused on increasing agricultural productivity, to build more sustainable and climate-resilient agriculture and food systems. The EU has invested in projects for climate-resilient and sustainable agriculture and food systems to increase agricultural productivity including through funding for small and medium-sized businesses, environment and climate projects, and funding to address animal diseases.

Thus, the European Union receives a score of +1.

Analyst: Amoly Agarwal