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2023 G20 New Delhi Summit Final Compliance Report

11 September 2023 to 10 October 2024

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13 November 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		0	
South Africa	-1		
Türkiye			+1
United Kingdom			+1
United States			+1
European Union			+1
Average		+0.55 (78%)	

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.¹⁷¹³ 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.¹⁷¹⁴ 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 2021.¹⁷¹⁵ The Matera Declaration urged accelerated adaptation 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.

¹⁷¹³ G20 New Delhi Leaders' Declaration, G20 Research Group (Toronto) 9 September 2023. Access Date: 4 February 2024. <https://www.g20.utoronto.ca/2023/230909-declaration.html>

¹⁷¹⁴ 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>

¹⁷¹⁵ Matera Declaration on Food Security, Nutrition and Food Systems, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. <https://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.¹⁷¹⁶

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.”¹⁷¹⁷ 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.¹⁷¹⁸ 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.¹⁷¹⁹ 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.¹⁷²⁰ 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.¹⁷²¹ 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.¹⁷²²

At the 2015 Antalya Summit, G20 leaders shared the G20 Action Plan on Food Security and Sustainable Food Systems.¹⁷²³ The Action Plan outlined the G20’s commitment to improve food

¹⁷¹⁶ Declaration of the Summit on Financial Markets and the World Economy, G20 Information Centre (Toronto) 15 November 2008. Access Date: 12 February 2024. <https://www.g20.utoronto.ca/2008/2008declaration1115.html>

¹⁷¹⁷ G20 Leaders Statement: The Pittsburgh Summit, G20 Information Centre (Toronto) 25 September 2009. Access Date: 3 February 2024. <https://www.g20.utoronto.ca/2009/2009communique0925.html>

¹⁷¹⁸ The G20 Toronto Summit Declaration, G20 Information Centre (Toronto) 27 June 2010. Access Date: 3 February 2024. <https://www.g20.utoronto.ca/2010/to-communique.html>

¹⁷¹⁹ 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. <https://www.g20.utoronto.ca/2011/2011-cannes-declaration-111104-en.html>

¹⁷²⁰ G20 Leaders Declaration, G20 Information Centre (Toronto) 19 June 2012. Access Date: 4 February 2024. <https://www.g20.utoronto.ca/2012/2012-0619-loscabos.html>

¹⁷²¹ G20 Leaders' Declaration, G20 Information Centre (Toronto) 6 September 2013. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2013/2013-0906-declaration.html>

¹⁷²² G20 Food Security and Nutrition Framework, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. https://www.g20.utoronto.ca/2014/g20_food_security_nutrition_framework.pdf

¹⁷²³ G20 Action Plan on Food Security and Sustainable Food Systems, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. <https://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.¹⁷²⁴

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.”¹⁷²⁵ 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.¹⁷²⁶

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.”¹⁷²⁷

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.¹⁷²⁸

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.¹⁷²⁹ 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.”¹⁷³⁰

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.”¹⁷³¹ 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

¹⁷²⁴ G20 Leaders’ Communiqué: Hangzhou Summit, G20 Information Centre (Toronto) 5 September 2016. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2016/160905-communiqué.html>

¹⁷²⁵ G20 Leaders’ Declaration: Shaping an Interconnected World, G20 Information Centre (Toronto) 8 July 2017. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2017/2017-G20-leaders-declaration.html>

¹⁷²⁶ G20 Leaders’ Declaration: Building Consensus for Fair and Sustainable Development, G20 Information Centre (Toronto) 1 December 2018. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2018/2018-leaders-declaration.html>

¹⁷²⁷ G20 Osaka Leaders’ Declaration, G20 Information Centre (Toronto) 29 June 2019. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2019/2019-g20-osaka-leaders-declaration.html>

¹⁷²⁸ Leaders’ Declaration, G20 Information Centre (Toronto) 21 November 2020. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2020/2020-g20-leaders-declaration-1121.html>

¹⁷²⁹ Matera Declaration on Food Security, Nutrition and Food Systems, G20 Information Centre (Toronto) n.d. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2021/Matera-Declaration.pdf>

¹⁷³⁰ G20 Rome Leaders’ Declaration, G20 Information Centre (Toronto) 31 October 2021. Access Date: 13 February 2024. <https://www.g20.utoronto.ca/2021/211031-declaration.html>

¹⁷³¹ G20 Bali Leaders’ Declaration, G20 Information Centre (Toronto) 16 November 2022. Access Date: 3 February 2024. <https://www.g20.utoronto.ca/2022/221116-declaration.html>

“millets, quinoa, sorghum, and other traditional crops including rice, wheat and maize” to address food insecurity.¹⁷³² 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.”¹⁷³³ 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.”¹⁷³⁴

“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.”¹⁷³⁵ “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.¹⁷³⁶

“Increasing” is understood to mean “additional efforts to an old commitment,” in this case pertaining to agricultural productivity.¹⁷³⁷ This “should not be interpreted as adding new efforts in new ways.”

“Agricultural” refers to practices “used for farming or relating to farming.”¹⁷³⁸ “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.”¹⁷³⁹

“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.”¹⁷⁴⁰

¹⁷³² G20 New Delhi Leaders' Declaration, G20 Information Centre (Toronto) 9 September 2023. Access Date: 4 February 2024. <https://www.g20.utoronto.ca/2023/230909-declaration.html>

¹⁷³³ G20 New Delhi Leaders' Declaration, G20 Information Centre (Toronto) 9 September 2023. Access Date: 4 February 2024. <https://www.g20.utoronto.ca/2023/230909-declaration.html>

¹⁷³⁴ Accelerating, Merriam-Webster (Springfield) n.d. Access Date: 4 February 2024. <https://www.merriam-webster.com/dictionary/accelerating>

¹⁷³⁵ Compliance Coding Manual for International Institutional Commitments, Global Governance Program (Toronto) 12 November 2020. Access Date: 4 February 2024. https://www.g7.utoronto.ca/compliance/Compliance_Coding_Manual_2020.pdf

¹⁷³⁶ Investment, Cambridge Dictionary (Cambridge) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/investment>

¹⁷³⁷ Compliance Coding Manual for International Institutional Commitments, Global Governance Program (Toronto) 12 November 2020. Access Date: 4 February 2024. https://www.g7.utoronto.ca/compliance/Compliance_Coding_Manual_2020.pdf

¹⁷³⁸ Agricultural, Cambridge Dictionary (Cambridge) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/agricultural>

¹⁷³⁹ Agriculture, Merriam-Webster (Springfield) n.d. Access Date: 4 February 2024. <https://dictionary.cambridge.org/dictionary/english/agricultural?q=agricultural+>

¹⁷⁴⁰ 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.”¹⁷⁴¹

“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.”¹⁷⁴² “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.).”¹⁷⁴³ 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.”¹⁷⁴⁴ 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.¹⁷⁴⁵ 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.”¹⁷⁴⁶ “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.¹⁷⁴⁷ 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,

¹⁷⁴¹ 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

¹⁷⁴² 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>

¹⁷⁴³ 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>

¹⁷⁴⁴ 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>

¹⁷⁴⁵ 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>

¹⁷⁴⁶ 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/>

¹⁷⁴⁷ Climate-Resilient Food Systems, International Development Research Centre (Ottawa) n.d. Access Date: 8 March 2024. <https://idrc-crدي.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.¹⁷⁴⁸ 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.¹⁷⁴⁹ 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.¹⁷⁵⁰ 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

¹⁷⁴⁸ 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>

¹⁷⁴⁹ 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>

¹⁷⁵⁰ 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.¹⁷⁵¹ 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 1219/2023.¹⁷⁵² 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 1/2024.¹⁷⁵³ 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.¹⁷⁵⁴ 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.¹⁷⁵⁵ 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.¹⁷⁵⁶ 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 capacity. Moreover, the new product allows for protection against lepidoptera insects in-turn reducing the dependence of insecticides.

¹⁷⁵¹ 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>.

¹⁷⁵² 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>

¹⁷⁵³ 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>

¹⁷⁵⁴ 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>

¹⁷⁵⁵ 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>

¹⁷⁵⁶ 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>

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.¹⁷⁵⁷

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.¹⁷⁵⁸ 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.¹⁷⁵⁹ 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 2024.¹⁷⁶⁰ 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.¹⁷⁶¹ 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.

On 4 October 2024, the National Environment Undersecretariat began its forest management and livestock farming project which is centered around conserving biodiversity through deforestation prevention and the reduction of greenhouse gas emissions.¹⁷⁶² The project is focused on sustainable livestock farming in Argentina’s Chaco Park and is financed by the Global Environmental Facility and implemented by the Food and Agriculture Organization of the United Nations.

¹⁷⁵⁷ 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>

¹⁷⁵⁸ 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-agropecuario-del-sur-cas>

¹⁷⁵⁹ 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>

¹⁷⁶⁰ 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>

¹⁷⁶¹ 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-primer-bioplanta-cria-insectos-del>

¹⁷⁶² Ambiente promueve el manejo de bosques nativos con ganadería integrada, Vicejefatura de Gabinete del Interior (Buenos Aires) 4 October 2024. Translation provided by Google Translate. Access Date: 16 October 2024. <https://www.argentina.gob.ar/noticias/ambiente-promueve-el-manejo-de-bosques-nativos-con-ganaderia-integrada>

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. 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 its endorsement of the United Arab Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action alongside over 130 countries at the 28th Conference of the Parties to the United Nations Framework Convention on Climate Change.¹⁷⁶³ 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.¹⁷⁶⁴ 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.¹⁷⁶⁵ 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.¹⁷⁶⁶ 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 to aid the National Biosecurity Strategy (NBS).¹⁷⁶⁷ The plan

¹⁷⁶³ 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>

¹⁷⁶⁴ 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>

¹⁷⁶⁵ 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>

¹⁷⁶⁶ 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>

¹⁷⁶⁷ 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>

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 NBS planning until 2032.

On 26 February 2024, the Cairns Group, chaired by Australia, welcomed Ukraine into the group.¹⁷⁶⁸ The coalition of 20 agricultural fair-trading countries met to discuss priorities in improving long-term global food security and agricultural reform before World Trade Organization’s ministerial conference 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.¹⁷⁶⁹ In part, members agreed to improve discussed improving communication networks “linkages in the “regional food regulatory landscape” and “supporting new work on standards develop food safety standards for indigenous foods” with safety concerns where there is an identified food safety or trade need.

On 28 February 2024, the Minister for Agriculture, Fisheries and Forestry Murray Watt announced a new Sustainable Biosecurity Funding Advisory Panel to supervise the AUD1 billion Sustainable Biosecurity Funding model to enhance transparency and accountability of Government biosecurity funding and expenditure. The panel builds closer collaboration between Government and key stakeholders, with regular meetings to share insights, discuss biosecurity funding priorities and explain spending decisions of the Australian Government.¹⁷⁷⁰

On 28 February 2024, the Agriculture (Biosecurity Protection) Levies Bill 2024, Agriculture (Biosecurity Protection) Charges Bill 2024 and Agriculture (Biosecurity Protection) Levies and Charges Collection Bill 2024 were introduced to the Australian House of Representatives.¹⁷⁷¹ In part, the bills will require agricultural and forestry producers to contribute to biosecurity protection. The bills intend to collect approximately AUD50 million annually to ensure sufficient funding for the biosecurity system.

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.¹⁷⁷² Funding will support 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 resources and biodiversity. The grants, as part of the Climate-Smart Agriculture Program aim to improve agricultural productivity and sustainability as well as competitiveness.

¹⁷⁶⁸ 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>

¹⁷⁶⁹ 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>

¹⁷⁷⁰ 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>

¹⁷⁷¹ Explanatory Memorandum, The Parliament of the Commonwealth of Australia (Canberra) n.d. Access Date: 16 March 2024. https://parlinfo.aph.gov.au/parlInfo/search/display/display.w3p;query=Id%3A%22legislation%2Fems%2Fr7158_ems_974ff256-0770-4a84-922f-1c258263f00d%22

¹⁷⁷² 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>

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 ASEAN-Australia Special Summit.¹⁷⁷³ The programme is meant to allow for free exchange of technologies and infrastructural knowledge within industries including the agricultural sector.

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 critical climatic events.¹⁷⁷⁴ The funding will assist small-scale producers and businesses to rebuild infrastructure with individualized guidance.

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.¹⁷⁷⁵ This will enable increased agricultural productivity in Pakistan's dairy and beef industries while supporting climate-resilience as the bovine semen and embryos are genetically selected to have a higher heat tolerance.

On 19 April 2024, the Department of Agriculture, Fisheries and Forestry and the Commonwealth Scientific and Industrial Research Organisation published the Ag2050 Scenarios Report which outlines four potential versions of Australia's agricultural system by 2050.¹⁷⁷⁶ The report explores the trends and challenges which might result in any of the four outcomes while considering ways to ensure a favourable outcome focused on productive, resilient and sustainable agriculture.¹⁷⁷⁷

On 7 May 2024, the government announced AUD519.1 million for the Future Drought Fund to support sustainable and climate-resilient agriculture.¹⁷⁷⁸ In part, funding will support the Drought Resilience Adoption and Innovation Hubs, Climate Services for Agriculture programs and the development of innovative solutions for climate and drought resilience.

On 23 May 2024, the Australian government revealed the details of the AUD63.8 million allocated towards emissions reduction in agriculture and a net-zero economy in 2024-2025 federal Budget.¹⁷⁷⁹ Of this, AUD28.7 million will support increased greenhouse gas accounting over ten years, AUD30.8 million will enable decreased agricultural and land emissions over four years and AUD4.4 million will be distributed over ten years to allow DAFF to become a partner of the Zero Net Emissions Agriculture Cooperative Research Centre.

¹⁷⁷³ 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>

¹⁷⁷⁴ 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>

¹⁷⁷⁵ 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>

¹⁷⁷⁶ 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/>

¹⁷⁷⁷ Ag2050 Scenarios Report, CSIRO (Canberra) 15 April 2024. Access Date: 16 May 2024. <https://www.csiro.au/en/work-with-us/services/consultancy-strategic-advice-services/CSIRO-futures/Agriculture-and-Food/Ag2050-Scenarios-Reimagining-Australian-Farming-Systems>

¹⁷⁷⁸ Joint media release: \$519 million boost to help farmers mitigate impacts of drought, Ministry of Agriculture, Fisheries and Forestry (Canberra) 7 May 2024. Access Date: 17 July 2024. <https://minister.agriculture.gov.au/Watt/media-releases/budget-519-million-boost-to-help-farmers-mitigate-impacts-of-drought>

¹⁷⁷⁹ Joint media release: Major funding to help reduce ag emissions, Ministry of Agriculture, Fisheries and Forestry (Canberra) 23 May 2024. Access Date: 22 June 2024. <https://minister.agriculture.gov.au/Watt/media-releases/major-funding-to-help-reduce-ag-emissions>

On 29 May 2024, the Australian government announced grant applications worth AUD15 million as part of the On Farm Connectivity Program.¹⁷⁸⁰ This action is meant to provide farmers with streamlined agricultural equipment for increased efficiency. This will increase sustainable agriculture by helping farmers to “optimise soil quality and nutrient levels, monitor livestock [and] improve efficiency of water use.”

On 13 June 2024, Department of Agriculture, Fisheries and Forestry awarded AUD20 million to 17 projects across Australia as part of the National Soil Action Plan.¹⁷⁸¹ The plan contains four priority actions, with ties to the larger National Soil Strategy guide. The projects will help develop soil workforce capabilities, accelerate the adoption of land use and management practices that protect soil, and support the collection and use of soil data to inform best practice management and decision making.

On 20 June 2024, Minister Watt and Assistant Minister for Trade and Assistant Minister for Manufacturing Tim Ayres announced AUD3.5 million to further strengthen Papua New Guinea’s exotic animal disease detection and surveillance capability.¹⁷⁸² It includes co-designing a three-year biosecurity twinning programme in partnership between Australia’s Department of Agriculture, Fisheries and Forestry and Papua New Guinea’s National Agriculture and Quarantine Inspection Authority.

On 24 June 2024, Minister for Environment and Water Tanya Plibersek and Minister Watt stated that AUD14.5 million will be allotted to Landscape Australia Limited and the National Landcare Network to manage Australia’s natural resources and support the uptake of sustainable agricultural practices and environmental protection.¹⁷⁸³ Regional Delivery Partners will also receive AUD88.3 million to support operational functions.

On 9 July 2024, the Department of Agriculture, Fisheries and Forestry unveiled AusTreat, a new pre-border biosecurity measure to ensure overseas treatment providers implement proper pest treatment to prevent invasive species from entering the country.¹⁷⁸⁴ This programme will replace the current Offshore BMSB Treatment Provider programme and set conditions for the regulation of pre-border biosecurity treatment providers.

On 10 July 2024, the Australian government announced an AUD6.9 million investment to address possible threats of H5 High Pathogenicity Avian Influenza in poultry and other wildlife.¹⁷⁸⁵ Of this, AUD1.95 million will go towards funding Animal Health Australia to support the national response capability for avian influenza in poultry.

¹⁷⁸⁰ Joint media release: Backing Australian farmers through Round 1 of the On Farm Connectivity Program, Australian Government (Canberra) 29 May 2024. Access Date: 22 June 2024. <https://minister.agriculture.gov.au/Watt/media-releases/backing-australian-farmers-through-round-one-on-farm-connectivity-program>

¹⁷⁸¹ Albanese Government delivers National Soil Action Plan funding, Australian Government (Canberra) 13 June 2024. Access Date: 22 June 2024. <https://minister.agriculture.gov.au/watt/media-releases/albanese-government-delivers-national-soil-action-plan-funding>

¹⁷⁸² Joint media release: Australia invests in Papua New Guinea to protect biosecurity, Australian Government (Canberra) 20 June 2024. Access Date: 17 July 2024. <https://minister.agriculture.gov.au/watt/media-releases/joint-media-release-australia-invests-papua-new-guinea-protect-biosecurity>

¹⁷⁸³ Joint media release: Funding to landcare groups to support sustainable agriculture, Australian Government (Canberra) 24 June 2024. Access Date: 17 July 2024. <https://minister.dcceew.gov.au/plibersek/media-releases/joint-media-release-funding-landcare-groups-support-sustainable-agriculture>

¹⁷⁸⁴ AusTreat freshens up stink beetle controls, Australian Government (Canberra) 9 July 2024. Access Date: 17 July 2024. <https://www.agriculture.gov.au/about/news/austreat>

¹⁷⁸⁵ Millions invested in national avian influenza preparation, Australian Government (Canberra) 10 July 2024. Access Date: 17 July 2024. <https://minister.agriculture.gov.au/watt/media-releases/millions-invested-national-avian-influenza-preparation>

On 15 July 2024, the Australian government announced over AUD100 million to the red meat and livestock industry for research development in the 2024-25 financial year to support industry growth.¹⁷⁸⁶

On 16 July 2024, the Department of Agriculture, Fisheries and Forestry reported AUD8.4 million to go toward soil capacity building via the Climate-Smart Agriculture Program.¹⁷⁸⁷ AUD6.2 million will be given to universities of grower groups to continue the national network of Regional Soil Coordinators. AUD2.2 million will go to Soil Science Australia to deliver the National Soil's Community of Practice, which facilitates soil extension services and networks.

On 26 July 2024, Deputy Secretary for Agriculture, Fisheries and Forestry Policy Matt Lowe stated that AUD40.7 million will be invested into the network of Sustainable Agriculture Facilitators.¹⁷⁸⁸ The network connects with others in the industry and shares information on sustainable agricultural practices.

On 5 August 2024, the Department of Agriculture, Fisheries and Forestry announced a AUD638,000 grant for the Australian Farm Institute.¹⁷⁸⁹ The grant will support international collaboration on sustainable agriculture and advocacy towards sustainable agriculture trade standards and guidelines development that recognize Australian conditions.

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 the Climate-Smart Agriculture, 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 Conference of the Parties to the United Nations Framework Convention on Climate Change in Dubai.¹⁷⁹⁰ The declaration aims to promote

¹⁷⁸⁶ Aussie beef to seize growing trade opportunities, Australian Government (Canberra) 15 July 2024. Access Date: 17 July 2024. <https://minister.agriculture.gov.au/watt/media-releases/aussie-beef-trade-opportunities>

¹⁷⁸⁷ Growing soil health through Climate-Smart Agriculture, Australian Government (Canberra) 16 July 2024. Access Date: 17 July 2024. <https://minister.agriculture.gov.au/watt/media-releases/growing-soil-health-through-climate-smart-agriculture>

¹⁷⁸⁸ A designated point of contact for sustainable agriculture, Australian Government (Canberra) 26 July 2024. Access Date: 4 August 2024. <https://www.agriculture.gov.au/about/news/sustainable-agriculture-facilitators>

¹⁷⁸⁹ New grant to support sustainable agriculture, Australian Government (Canberra) 5 August 2024. Access Date: 27 August 2024. <https://www.agriculture.gov.au/about/news/sustainable-agriculture-grant>

¹⁷⁹⁰ 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>

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.¹⁷⁹¹ The partnership will include the exchange of agribusiness information and cooperation for sustainable and resilient agricultural production.

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.¹⁷⁹² 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.”¹⁷⁹³ 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.¹⁷⁹⁴ 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.¹⁷⁹⁵ 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

¹⁷⁹¹ 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>

¹⁷⁹² 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>

¹⁷⁹³ 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>

¹⁷⁹⁴ 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>

¹⁷⁹⁵ 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>

Amazon biodiversity.¹⁷⁹⁶ 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 that support small and medium-sized agricultural producers.¹⁷⁹⁷ This will enable agricultural productivity and sustainable development.

On 4 March 2024, Minister Fávoro inaugurated the Rio Grande do Sul campus of the Atitus Educação Agribusiness School.¹⁷⁹⁸ 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 Fávoro and President Luiz Inácio Lula da Silva inaugurated the EuroChem Mining Industrial Complex which aims to produce 1 million tons of phosphate fertilizers annually.¹⁷⁹⁹ 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.¹⁸⁰⁰ 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 Fávoro attended the 51st anniversary of the Brazilian Agricultural Research Corporation’s creation.¹⁸⁰¹ 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

¹⁷⁹⁶ 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>

¹⁷⁹⁷ Fávoro 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>

¹⁷⁹⁸ No Rio Grande do Sul, ministro Fávoro 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>

¹⁷⁹⁹ 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>

¹⁸⁰⁰ 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>

¹⁸⁰¹ Lula e Fávoro 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>

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.¹⁸⁰² 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 Brazil's commitment to ensuring food security through international partnerships. Foreign investment for Brazil's agricultural sector was also discussed.

On 7 May 2024, Minister Fávaro delivered "26 tractors, 6 motor graders, 3 hydraulic excavators, and 1 backhoe" to the State of Rio Grande do Sul.¹⁸⁰³ These agricultural machines were purchased by the Ministry of Agriculture and Livestock with the aim of assisting local agriculture. At the same time, the Emergency Agribusiness Reconstruction Program was established in the State to help with the restoration of agricultural activities.

On 10 May 2024, the Ministry of Agriculture and Livestock announced the establishment of the Thematic Chamber for Agricultural Risk Management of the National Council for Agricultural Policy, bringing together public and private partners to address environmental, climate change-related and other risks impacting agricultural activity.¹⁸⁰⁴ This initiative aims to develop areas of interest and opportunities to improve agricultural productivity.

On 25 June 2024, the Ministry of Agriculture and Livestock delivered BRL1 million in agricultural equipment to Nova Prata do Iguaçu.¹⁸⁰⁵ Equipment included two tractors, a trailer and solid organic fertilizer distributor. This initiative aims to improve sustainable development and agricultural production in the region.

On 13 August 2024, Minister Fávaro and Danish Ambassador to Brazil Eva Bisgaard Pedersen signed a Memorandum of Understanding for cooperation "to stimulate the mutual development of agricultural and livestock systems."¹⁸⁰⁶ Development will focus on sustainable agriculture in both countries.

¹⁸⁰² 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>

¹⁸⁰³ Fávaro realiza entrega de 36 máquinas agrícolas para o Rio Grande do Sul, Ministério da Agricultura e Pecuária (Brasília) 7 May 2024. Translation provided by Google Translate. Access Date: 7 July 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/favaro-realiza-entrega-de-36-maquinas-agricolas-para-o-rio-grande-do-sul>

¹⁸⁰⁴ Mapa institui Câmara Temática de Gestão de Risco Agropecuário para enfrentar desafios ambientais e climáticos no setor, Ministério da Agricultura e Pecuária (Brasília) 10 May 2024. Translation provided by Google Translate. Access Date: 17 July 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/mapa-institui-camara-tematica-de-gestao-de-risco-agropecuario-para-enfrentar-desafios-ambientais-e-climaticos-no-setor>

¹⁸⁰⁵ Mapa entrega R\$ 1 milhão em equipamentos agrícolas para Nova Prata do Iguaçu (PR), Ministério da Agricultura e Pecuária (Brasília) 25 June 2024. Translation provided by Google Translate. Access Date: 17 July 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/mapa-entrega-r-1-milhao-em-equipamentos-agricolas-para-nova-prata-do-iguacu-pr>

¹⁸⁰⁶ Brasil e Dinamarca firmam acordo para estimular o desenvolvimento nas áreas dos sistemas alimentares, Ministério da Agricultura e Pecuária (Brasília) 13 August 2024. Translation provided by Google Translate. Access Date: 27 August 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/brasil-e-dinamarca-firmam-acordo-para-estimular-o-desenvolvimento-nas-areas-dos-sistemas-alimentares-1>

On 12 September 2024, Minister Fávoro and Minister of Environment, Water and Agriculture of Saudi Arabia Abdulrahman A. Al-Fadley met to discuss various issues including the need for sustainable food production to advance food security.¹⁸⁰⁷

On 13 September 2024, the G20 Agriculture Working Group presented its Ministerial Declaration after a two-day meeting attended by 23 ministers and authorities as well as representatives from almost 50 countries.¹⁸⁰⁸ In the declaration, ministers agreed to implement policies for sustainable food production, support rural producers to increase productivity and move towards a global food system and strengthen multilateral cooperation via the Global Alliance against Hunger and Poverty started during the Brazilian Presidency at the G20.

On 13 September 2024, Minister Fávoro and Minister of Agriculture, Forestry and Fisheries of Japan Tetushi Sakamoto signed a Memorandum of Understanding for increased cooperation in terms of trade and the promotion of sustainable agri-food systems.¹⁸⁰⁹

On 13 September 2024, Minister Fávoro and Minister of Agriculture of Azerbaijan Magnum Mammadov signed a Memorandum of Understanding on cooperation for livestock and animal health.¹⁸¹⁰ The memorandum focuses on promoting horticulture, sustainable agribusiness management, improving agricultural machinery and pest and disease control.

On 19 September 2024, the Government of Brazil established Law No. 14,975 which aims to increase productivity, quality and sustainability in coconut farming.¹⁸¹¹ The law also promotes resource coordination, training, improvement programs and research to improve the competitiveness of Brazil's coconut farming.

On 30 September 2024, President Lula da Silva approved Provisional Measure No. 1,260 to provide BRL1.659 million to the Ministries of Agriculture and Livestock, Science, Technology and Innovation, Agrarian Development and Family Farming, Ports and Airports and for Official Credit Operations.¹⁸¹² Of this, BRL25.143 million will go towards the “production and dissemination of meteorological and climatological information” to support sustainable agriculture.

¹⁸⁰⁷ Reunião bilateral com a Arábia Saudita reforça parceria por sustentabilidade, Ministério da Agricultura e Pecuária (Brasília) 12 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/reuniao-bilateral-com-a-arabia-saudita-reforca-parceria-por-sustentabilidade>

¹⁸⁰⁸ Declaração Ministerial do GT Agricultura do G20 destaca sustentabilidade na produção e enfrentamento às mudanças climáticas, Ministério da Agricultura e Pecuária (Brasília) 13 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/declaracao-ministerial-do-gt-agricultura-do-g20-destaca-sustentabilidade-na-producao-e-enfrentamento-as-mudancas-climaticas>

¹⁸⁰⁹ Brasil e Japão assinam memorando para fortalecimento da cooperação agrícola, Ministério da Agricultura e Pecuária (Brasília) 13 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/brasil-e-japao-assinam-memorando-para-fortalecimento-da-cooperacao-agricola>

¹⁸¹⁰ Brasil e Azerbaijão assinam memorando de entendimento para a pecuária e saúde animal, Ministério da Agricultura e Pecuária (Brasília) 13 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/brasil-e-azerbaijao-assinam-memorando-de-entendimento-para-a-pecuaria-e-saude-animal>

¹⁸¹¹ Governo Federal institui a Política de Incentivo à cocoicultura de qualidade, Ministério da Agricultura e Pecuária (Brasília) 19 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/governo-federal-institui-a-politica-de-incentivo-a-cocoicultura-de-qualidade>

¹⁸¹² Governo Federal aprova crédito extraordinário de R\$ 60 milhões para o Mapa, Ministério da Agricultura e Pecuária (Brasília) 30 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.gov.br/agricultura/pt-br/assuntos/noticias/governo-federal-aprova-credito-extraordinario-de-r-60-milhoes-para-o-mapa>

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 Khabani

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 2024.¹⁸¹³ 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.¹⁸¹⁴ 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.¹⁸¹⁵ 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.

On 19 January 2024, the Governments of Canada and Ontario allocated over CAD16 million toward energy-saving projects for food processors through Sustainable CAP.¹⁸¹⁶ The initiative aims to invest

¹⁸¹³ 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>

¹⁸¹⁴ 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>

¹⁸¹⁵ 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>

¹⁸¹⁶ 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>

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.¹⁸¹⁷ 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.¹⁸¹⁸ 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.¹⁸¹⁹ 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.¹⁸²⁰ 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.¹⁸²¹ Projects will 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

¹⁸¹⁷ 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>

¹⁸¹⁸ 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>

¹⁸¹⁹ 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>

¹⁸²⁰ 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>

¹⁸²¹ 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>

environment agriculture industries.¹⁸²² 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.¹⁸²³ 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.¹⁸²⁴ The funding aims to help farmers quantify “the impacts of climate-smart management practices,” develop carbon footprint data and increase agricultural resiliency.

On 22 March 2024, the Government of Canada announced that New Brunswick farmers have access to the Resilient Agricultural Landscape Program.¹⁸²⁵ This initiative promotes sustainable land use by offering financial support for practices such as reduced tillage, pond and wetland creation and establishing pollinator habitats. These efforts aim to conserve healthy soils, water resources and biodiversity to ensure long-term productivity.

On 13 May 2024, Member of Parliament Lloyd Longfield, on behalf of Minister MacAulay, announced a CAD5.7 million investment in agricultural research to promote diverse crop rotations through the AgriScience Program.¹⁸²⁶ In support of the Canadian Field Crop Research Alliance’s initiative to develop resilient soybean, corn, and oat varieties, the research will aim to mitigate climate risks, enhance profitability and improve sustainability by reducing greenhouse gas emissions and optimizing nitrogen use efficiency in farming practices.

On 14 May 2024, Minister MacAulay and Saskatchewan Agricultural Minister David Marit allocated over CAD5 million to the Prairie Agricultural Machinery Institute over 5 years.¹⁸²⁷ This funding is designated for agricultural “project development, delivery, knowledge transfer, and training” to ensure the institute can continue providing valuable engineering solutions to the sector and advance research that supports Saskatchewan’s agricultural industry.

¹⁸²² 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>

¹⁸²³ 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>

¹⁸²⁴ 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>

¹⁸²⁵ New program to benefit agricultural lands, Agriculture and Agri-Food Canada (Fredericton) 22 March 2024. Access Date: 20 June 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/03/new-program-to-benefit-agricultural-lands.html>

¹⁸²⁶ Government of Canada announces investment in research to promote more diverse crop rotations on farms, Agriculture and Agri-Food Canada (Guelph) 13 May 2024. Access Date: 21 June 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/05/government-of-canada-announces-investment-in-research-to-promote-more-diverse-crop-rotations-on-farms.html>

¹⁸²⁷ Governments of Canada and Saskatchewan Invest \$5 Million In Prairie Agricultural Machinery Institute, Agriculture and Agri-Food Canada (Regina) 14 May 2024. Access Date: 21 June 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/05/governments-of-canada-and-saskatchewan-invest-5-million-in-prairie-agricultural-machinery-institute.html>

On 30 May 2024, Minister MacAulay announced up to CAD8,124,319 in funding for Ag-West Bio Inc through the Clusters Component of the AgriScience Program.¹⁸²⁸ Funding will support research to diversify field crops such as flax, mustard and sunflower to improve their climate-resilience and ability to withstand drought, heat and soil nutrient deficiency.

On 12 June 2024, Minister MacAulay announced a federal investment of up to CAD5.2 million in the Canadian Barley Research Coalition through the AgriScience Program.¹⁸²⁹ This funding aims to support research that enhances the resilience of the barley sector in response to climate change. The focus includes improving sustainability through genetic diversity and plant growth regulators, developing climate-resilient barley varieties and improving disease resistance to improve sector resilience and sustainable production.

On 15 July 2024, Agriculture and Agri-Food Canada announced an AgriInsurance program for New Brunswick maple producers to protect against natural disasters.¹⁸³⁰ As part of the Sustainable Canadian Agricultural Partnership, the program involves cost-sharing among producers and the government. This initiative ensures financial stability among maple producers, helps manage production and quality losses in the industry and encourages continued investment in their agricultural practices thereby boosting productivity.

On 22 July 2024, Minister MacAulay announced that over CAD8.5 million will be invested into two projects led by Dairy Farmers of Canada (DFC) “to advance sustainability” in the dairy industry.¹⁸³¹ In these two projects, the DFC aims to help farmers make “environmentally conscious decisions” by assessing their water usage, greenhouse gas emissions and carbon sequestration.

On 25 July 2024, Minister MacAulay and Manitoba Premier Wab Kinew announced that over CAD2 million in financial support will be provided to the Enterprise Machine Intelligence and Learning Initiative (EMILI) through the Sustainable CAP.¹⁸³² Funding towards EMILI will support innovation in Manitoba’s agricultural sector helping to decrease costs and improve sustainability and food production.

On 31 July 2024, Member of Parliament for Kingston and the islands Mark Gerretsen, on behalf of Minister MacAulay announced a CAD2 million investment to Performance Plants Inc. to develop climate-resilient soybean varieties.¹⁸³³ As part of the Sustainable CAP, funding will support research

¹⁸²⁸ Minister MacAulay announces investment in crop diversification research, Agriculture and Agri-Food Canada (Saskatoon) 30 May 2024. Access Date: 18 July 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/05/minister-macaulay-announces-investment-in-crop-diversification-research.html>

¹⁸²⁹ Minister MacAulay announces \$5.2M federal investment in barley research for a more resilient, sustainable crop, Agriculture and Agri-Food Canada (Ottawa) 12 June 2024. Access Date: 21 June 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/06/minister-macaulay-announces-52m-federal-investment-in-barley-research-for-a-more-resilient-sustainable-crop.html>

¹⁸³⁰ New insurance program to help protect and attract maple producers, Agriculture and Agri-Food Canada (Fredericton) 15 July 2024. Access Date: 1 August 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/07/new-insurance-program-to-help-protect-and-attract-maple-producers.html>

¹⁸³¹ Minister MacAulay announces support for Canadian dairy farmers to improve sustainability and safety, Agriculture and Agri-Food Canada (Ottawa) 22 July 2024. Access Date: 15 August 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/07/minister-macaulay-announces-support-for-canadian-dairy-farmers-to-improve-sustainability-and-safety.html>

¹⁸³² Governments of Canada and Manitoba supporting farmers and producers, Agriculture and Agri-Food Canada (Grosse Isle) 25 July 2024. Access Date: 15 August 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/07/governments-of-canada-and-manitoba-supporting-farmers-and-producers.html>

¹⁸³³ Government of Canada announces funding to help soybean farmers manage extreme weather, Agriculture and Agri-Food Canada (Kingston) 31 July 2024. Access Date: 2 August 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/07/government-of-canada-announces-funding-to-help-soybean-farmers-manage-extreme-weather.html>

and field testing of soybeans that are more tolerant to heat and drought, resistant to herbicides and efficient in water use, while also sequestering carbon.

On 31 July 2024, Agriculture and Agri-Food Canada unveiled a CAD1.3 million Agriculture Resiliency Program for Prince Edward Island.¹⁸³⁴ Funded through the Sustainable CAP, it aims to include climate-resilient and optimal farming practice research, extreme weather preparedness and producer wellness initiatives to help farmers adapt to climate challenges and improve the industry's viability.

On 7 August 2024, the Canadian and Ontario Government announced a joint investment of up to CAD5 million through Sustainable CAP towards small businesses in the agriculture and food industry.¹⁸³⁵ The aim of the investment is to help small businesses improve their food safety systems and foster stability within Ontario's agri-food supply chain.

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.¹⁸³⁶ Based on assessments by the working groups, the ministry encouraged farmers to maintain greenhouses and animal shelters and take protective measures to protect crops.

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.¹⁸³⁷ 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

¹⁸³⁴ New program to assist Prince Edward Island farmers in building resiliency, Agriculture and Agri-Food Canada (Charlottetown) 31 July 2024. Access Date: 2 August 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/07/new-program-to-assist-prince-edward-island-farmers-in-building-resiliency.html>

¹⁸³⁵ Governments Investing in Food Safety and Industry Growth, Agriculture and Agri-Food Canada (Cambridge) 7 August 2024. Access Date: 15 August 2024. <https://www.canada.ca/en/agriculture-agri-food/news/2024/08/governments-investing-in-food-safety-and-industry-growth.html>

¹⁸³⁶ 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

¹⁸³⁷ 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

cooperation.¹⁸³⁸ 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.¹⁸³⁹ 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.¹⁸⁴⁰ 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 a mortality rate of close to 100 per cent.¹⁸⁴¹ Funding aims to contain the virus, control wild boar populations and monitor their health and improve the biosecurity of farms.

¹⁸³⁸ 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

¹⁸³⁹ 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

¹⁸⁴⁰ 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

¹⁸⁴¹ 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>

On 21 December 2023, Minister Fesneau introduced seven measures including decarbonisation of agriculture and the forestry sector with EUR1.3 billion in funding.¹⁸⁴² 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.¹⁸⁴³ 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.¹⁸⁴⁴ 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.¹⁸⁴⁵ 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.¹⁸⁴⁶ This plan includes genetic and agronomic research of durum wheat areas and reducing carbon footprints in accordance with France’s decarbonization roadmap.

On 29 February 2024, Minister Fesneau signed an agreement with the National Union of Chestnut Producers to establish a chestnut sector coordination unit.¹⁸⁴⁷ 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.

¹⁸⁴² 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-concrettes-pour-accompagner-les-transitions-du-secteur-agricole>

¹⁸⁴³ 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>

¹⁸⁴⁴ 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>

¹⁸⁴⁵ #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>
¹⁸⁴⁶ #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>

¹⁸⁴⁷ 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>

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.¹⁸⁴⁸

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.¹⁸⁴⁹ 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."¹⁸⁵⁰ 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.¹⁸⁵¹ 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.

On 27 April 2024, Prime Minister Gabriel Attal announced measures focused on supporting farmers through sustainable and climate-resilient agriculture.¹⁸⁵² 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*.¹⁸⁵³ The publication consists of strategies and objectives aimed at combating climate change, maintaining crop protection

¹⁸⁴⁸ 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>

¹⁸⁴⁹ 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-l'expérimentation-sur-la-biosécurité-dans-les-elevages-de-plein-air>

¹⁸⁵⁰ 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.

¹⁸⁵¹ 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-l'agriculture-poursuit-avec-la-mutualite-sociale-agricole-son-soutien-aux>

¹⁸⁵² 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>

¹⁸⁵³ 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>

and supporting the economic and environmental performance of farms. EUR250 million will be allocated to ecological planning in 2024 as part of this strategy.

On 27 May 2024, FranceAgriMer's board of directors approved a budget of EUR291 million to finance ecological planning systems.¹⁸⁵⁴ Investments will be allocated to improving agricultural equipment, support an agroecological transition, improve the energy performance of greenhouses and research plans for plant proteins, fruits and vegetables.

On 24 June 2024, the Ministry of Agriculture and Food Sovereignty called for new projects to work under "Territorial Projects" managed by FranceAgriMer.¹⁸⁵⁵ Funded projects must enhance ecological planning, coordination in developing sustainable food systems at a local level and support sovereignty and transitions in the country's agricultural system. A budget of EUR61.3 million has been allocated towards this initiative.

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.¹⁸⁵⁶ 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.¹⁸⁵⁷ Rather than repaying debts to Germany, the program encourages climate-vulnerable countries to invest money in climate action, mitigation, and adaptation.

¹⁸⁵⁴ Le conseil d'administration de FranceAgriMer a validé ce jour un budget de 291 M€ qui permettra de financer les dispositifs de la planification écologique qui sont confiés à l'établissement en 2024, Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 27 May 2024. Translation provided by Google Translate. Access Date: 7 July 2024.

<https://agriculture.gouv.fr/planification-ecologique-le-conseil-dadministration-de-franceagrimer-valide-un-budget-de-291-meu>
¹⁸⁵⁵ Planification écologique : lancement de l'appel à projets « Projets territoriaux », Ministère de l'Agriculture et de la Souveraineté Alimentaire (Paris) 24 June 2024. Translation provided by Google Translate. Access Date: 7 July 2024.
<https://agriculture.gouv.fr/planification-ecologique-lancement-de-lappel-projets-projets-territoriaux>

¹⁸⁵⁶ 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

¹⁸⁵⁷ 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>

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.

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.¹⁸⁵⁸ 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.¹⁸⁵⁹ 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.¹⁸⁶⁰ 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.¹⁸⁶¹ 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.”¹⁸⁶² 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

¹⁸⁵⁸ 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>

¹⁸⁵⁹ 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>

¹⁸⁶⁰ 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

¹⁸⁶¹ 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

¹⁸⁶² 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.¹⁸⁶³ 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.¹⁸⁶⁴ 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.

On 30 April 2024, Minister Özdemir announced over EUR1.8 million in funding for the toMOORow initiative.¹⁸⁶⁵ Alongside 14 companies, this initiative will rewet moors which are important for climate protection and support climate-friendly agricultural use on rewetted moors.

On 14 May 2024, the Ministry of Food and Agriculture announced EUR1 million for research on climate-friendly tractors.¹⁸⁶⁶ Research will focus on alternative drive technologies, the reduction of greenhouse gas emissions and renewable fuel sources.

On 23 July 2024, Parliamentary State Secretary Nick announced EUR750,000 in funding for the “Diversified Crop Production for Risk Reduction and Sustainable Climate Adaptation” research project.¹⁸⁶⁷ Funding will support the development of climate-resilient agriculture that ensures stable food production.

On 1 July 2024, the Ministry of Food and Agriculture announced approximately EUR4 million in funding for a number of projects to develop climate-resilient and climate-friendly agriculture.¹⁸⁶⁸ Of this, around EUR600 will go towards the development of an electric tractor that reduces emissions for small and medium-sized businesses, EUR1.5 million will help make organic animal husbandry more climate friendly and EUR1.9 million will support nutrient management systems by increasing nitrogen efficiency, “reduc[ing] nitrate losses and nitrous oxide emissions, increase[ing] soil carbon reserves...and maintain[ing] soil productivity.

On 12 September 2024, Parliamentary State Secretary Nick attended the two-day G20 Agriculture Ministers Meeting in Brazil calling for enhanced “multilateral cooperation for sustainable agricultural

¹⁸⁶³ 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>

¹⁸⁶⁴ 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>

¹⁸⁶⁵ Özdemir übergibt 1,8 Millionen Euro Förderung für Wiedervernässung von Mooren, Bundesminister für Ernährung und Landwirtschaft (Berlin) 30 April 2024. Translation provided by Google Translate. Access Date: 18 July 2024.
<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/042-moore.html>

¹⁸⁶⁶ BMEL fördert Forschung zu klimafreundlichen Traktoren mit einer Million Euro, Bundesminister für Ernährung und Landwirtschaft (Berlin) 14 May 2024. Translation provided by Google Translate. Access Date: 18 July 2024.
<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/045-trakzeptanz.html>

¹⁸⁶⁷ BMEL fördert Forschung zur Klimaanpassung im Ackerbau, Bundesminister für Ernährung und Landwirtschaft (Berlin) 23 July 2024. Translation provided by Google Translate. Access Date: 27 August 2024.
<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/076-foerderung-ackerbau.html>

¹⁸⁶⁸ BMEL fördert Forschung zu Agrarklimaschutz mit rund vier Millionen Euro, Bundesminister für Ernährung und Landwirtschaft (Berlin) 1 July 2024. Translation provided by Google Translate. Access Date: 27 August 2024.
<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/063-forschung.html>

and food systems.”¹⁸⁶⁹ The Ministerial Declaration from the meeting also outlined the need to address the impacts of climate change on agriculture and develop climate-resilient agriculture.

On 19 September 2024, the Ministry of Food and Agriculture announced over EUR1 million in funding for the MAGIC-KlimaBack project which is developing climate-friendly baking wheat varieties.¹⁸⁷⁰

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.¹⁸⁷¹ 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 -1.¹⁸⁷²

Analysts: Sze Wun Beatrice Ng and Ysabel Atienza

¹⁸⁶⁹ G20-Agrarministerinnen und -minister beraten in Brasilien über Hunger und Armut, Klimakrise und Biodiversitätsverlust, Bundesministerium für Ernährung und Landwirtschaft (Berlin) 15 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024.

<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/093-G20.html>

¹⁸⁷⁰ BMEL fördert Forschung zu klimafreundlichem Backweizen mit über einer Million Euro, Bundesministerium für Ernährung und Landwirtschaft (Berlin) 19 September 2024. Translation provided by Google Translate.

<https://www.bmel.de/SharedDocs/Pressemitteilungen/DE/2024/095-backweizen.html>

¹⁸⁷¹ 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/PressReleaselframePage.aspx?PRID=2015026>

¹⁸⁷² This score of non-compliance was determined after searching the following websites: <https://www.india.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 United Arab Emirates Declaration on Sustainable Agriculture, Resilient Food Systems and Climate Action with 133 other countries at the 28th Conference of the Parties to the United Nations Framework Convention on Climate Change in Dubai.¹⁸⁷³ 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.¹⁸⁷⁴ 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.¹⁸⁷⁵ 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 Amdri Amran Sulaiman’s request to increase the current budget allocated towards fertilizer subsidization by IDR14 trillion.¹⁸⁷⁶ 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).¹⁸⁷⁷ 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.

¹⁸⁷³ 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>

¹⁸⁷⁴ 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/>

¹⁸⁷⁵ 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/>

¹⁸⁷⁶ Govt Ensures RP14 Trillion Additional Budget for Fertilizer Subsidy, Antara News (Jakarta) 16 January 2024. Access Date: 28 March 2024.

¹⁸⁷⁷ 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.¹⁸⁷⁸ USD170.98 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.¹⁸⁷⁹ 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.¹⁸⁸⁰ 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 MC13.¹⁸⁸¹ 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.¹⁸⁸² 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.¹⁸⁸³ 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.¹⁸⁸⁴ 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.

¹⁸⁷⁸ 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>

¹⁸⁷⁹ 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>

¹⁸⁸⁰ 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>

¹⁸⁸¹ 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>

¹⁸⁸² 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>

¹⁸⁸³ 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>

¹⁸⁸⁴ 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.¹⁸⁸⁵ 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.¹⁸⁸⁶ 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.¹⁸⁸⁷ 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.¹⁸⁸⁸ 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.¹⁸⁸⁹ 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.¹⁸⁹⁰ 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

¹⁸⁸⁵ 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/>

¹⁸⁸⁶ 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/>

¹⁸⁸⁷ 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>

¹⁸⁸⁸ 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>

¹⁸⁸⁹ 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>

¹⁸⁹⁰ 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://www.pertanian.go.id/home/?show=news&act=view&id=6052>

rice production.¹⁸⁹¹ 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.¹⁸⁹² 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.¹⁸⁹³ In part, the partnership aims to increase sustainable food production and enhance Indonesia's agricultural sector.

On 30 April 2024, the Ministry of Agriculture in conjunction with the FAO launched the CABI programme in Potianak City and Landak Regency after its success in North Sulawesi.¹⁸⁹⁴ The biosecurity measures will help prevent the spread of African Swine Fever in Indonesia.

On 7 May 2024, Minister Sulaiman proposed the construction of a 10,000-hectare modern agricultural cluster in West Java.¹⁸⁹⁵ The development will begin in the Bandung Regency with the goal of creating a technologically driven agricultural system to increase crop production in anticipation of El Niño.¹⁸⁹⁶

On 13 May 2024, Minister Sulaiman provided 10 billion seeds to the Government of West Sulawesi to increase its rice, corn, coffee and cocoa production.¹⁸⁹⁷ The Ministry of Agriculture also will provide tractors and other assistance to promote plantation production.

On 14 May 2024, Minister Sulaiman furnished approximately 261 units of machinery tools to Merauke Regency to increase food production.¹⁸⁹⁸ Agricultural tools including pumps, planting, harvesting and fertilization tools and drones were also provided ahead of the long dry season.

On 16 May 2024, the Ministry of Agriculture in alliance with the Asian Development Bank and the International Fund for Agricultural Development implemented the Horticulture Development in

¹⁸⁹¹ 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>

¹⁸⁹² 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>

¹⁸⁹³ 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>

¹⁸⁹⁴ Preventing African Swine Fever in West Kalimantan, Ministry of Agriculture works with West Kalimantan Provincial Government and FAO to launch biosecurity assistance, FAO (Pontianak) 30 April 2024. Access Date: 22 June 2024. <https://www.fao.org/indonesia/news/detail-events/en/c/1681514/>

¹⁸⁹⁵ Cara Mentan Amran Gaet Anak Muda Bandung, Bangun Klaster Pertanian Modern, Kementerian Pertanian Republik Indonesia (Bandung) 7 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6094>

¹⁸⁹⁶ Apel Pompanisasi di Bandung, Mentan Amran Jelaskan Pompanisasi Hidupkan Perekonomian Desa, Kementerian Pertanian Republik Indonesia (Bandung) 7 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6092>

¹⁸⁹⁷ Mentan Amran: Sulawesi Barat akan Produksi dan Mensuplai Pangan Penduduk IKN, Kementerian Pertanian Republik Indonesia (Jakarta) 13 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6099>

¹⁸⁹⁸ Mentan Amran bersama Wakasal Lepas Brigade Alsintan Menuju Merauke, Papua Selatan, Kementerian Pertanian Republik Indonesia (Surabaya) 14 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6102>

Dryland Areas Project in Surabaya, East Java.¹⁸⁹⁹ The activity demonstrates joint work in transforming 10,000 hectares of dry land across 13 districts and 7 provinces into arable land.

On 19 May 2024, Minister Sulaiman signed a Memorandum of Understanding on Agriculture Cooperation with the Minister of Agriculture of Vietnam.¹⁹⁰⁰ The contents detail plans for agricultural investment and development, removing market barriers and processes for mechanizing and cultivating rice on swamp lands. Cooperation aims to develop environmentally friendly and sustainable agriculture.

On 22 May 2024, Minister Sulaiman established an agricultural technology collaboration with the China National Rice Research Institute.¹⁹⁰¹ Key objectives in the cooperation consist of increasing crop yields and productivity, the planting index and reducing production costs through improved technologies.

On 27 May 2024, Minister Sulaiman provided IDR410 billion in relief funding to be put towards agricultural assistance and IDR2.5 trillion in additional subsidized fertilizer.¹⁹⁰² The Ministry of Agriculture provided horticultural seeds, plantations, machines and fertilizers and post-natural disaster assistance for seven districts and cities in South Sulawesi to help restore the region.

On 5 July 2024, Acting Secretary General of the Ministry of Agriculture Prihasto Setyanto stated that the budget for pump funding in Central Java has been increased and over 7,000 additional water pumps will be provided to farmers in the region to ensure water efficiency amidst climate-related challenges.¹⁹⁰³ This will support rice production in Central Java.

On 13 July 2024, the Ministry of Agriculture initiated the Mass Movement to Install Owl Houses throughout Indonesia during a visit of the owl houses in Neglasari Village.¹⁹⁰⁴ This action will support the use of owl houses called Rubuha on rice fields as a sustainable, symbiotic method to exterminate mice and mitigate pest damage to crops.

On 15 July 2024, the Ministry of Agriculture declared the preparation of an additional 50,000 pump units to be installed across Indonesia.¹⁹⁰⁵ The additional pumps will support farmers during the extended drought period and climate-related challenges, promoting national agricultural production.

¹⁸⁹⁹ Terintegrasi Hulu-Hilir, Kementan Luncurkan Kawasan HDDAP 10.000 hektar di 13 Kabupaten, Kementerian Pertanian Republik Indonesia (Surabaya) 16 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6106>

¹⁹⁰⁰ Mentan RI dan Vietnam Sepakat Kerjasama Teknologi Lahan Rawa, Kementerian Pertanian Republik Indonesia (Hanoi) 19 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6112>

¹⁹⁰¹ Kementan Jalin Kerjasama Teknologi Pertanian Dengan CNRRI, Lembaga Riset Terbesar di China, Kementerian Pertanian Republik Indonesia (Hangzhou) 22 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6116>

¹⁹⁰² Mentan Serahkan Bantuan Pertanian Senilai Rp 410 Miliar untuk Bencana di Sulsel, Kementerian Pertanian Republik Indonesia (Makassar) 27 May 2024. Translation provided by Google Translate. Access Date: 22 June 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6118>

¹⁹⁰³ Sekjen Kementan Prihasto Apresiasi PAT Jawa Tengah Capai 3 Digit, Kementerian Pertanian Republik Indonesia (Semarang) 5 July 2024. Translation provided by Google Translate. Access Date: 19 July 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6176>

¹⁹⁰⁴ Kementan Luncurkan Gerakan Massal Pemasangan Rumah Burung Hantu se-Indonesia, Kementerian Pertanian Republik Indonesia (Subang) 13 July 2024. Translation provided by Google Translate. Access Date: 20 July 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6185>

¹⁹⁰⁵ Semua Kepala Daerah Diminta Perkuat Program Pompanisasi, Kementerian Pertanian Republik Indonesia (Jakarta) 15 July 2024. Translation provided by Google Translate. Access Date: 20 July 2024. <https://www.pertanian.go.id/home/?show=news&act=view&id=6186>

On 17 July 2024, Deputy for Maritime Affairs and Natural Resources of the Ministry of Planning Vivi Yulaswati announced the Direct Assistance for Farmers programme, set to be implemented in 2026.¹⁹⁰⁶ The programme will streamline and nationalize the fertilizer subsidization process to act as a direct aid mechanism for farmers.

On 2 October 2024, the Executive Office of the President of Indonesia, the Coordinating Ministry of Economic Affairs and the Food and Agriculture Organization of the United Nations Indonesia launched its first training activities under the Farmers Regeneration Programme and the World Food Forum Indonesia National Chapter.¹⁹⁰⁷ This initiative aims to encourage youth to join Indonesia's agricultural sector to ensure its future sustainability.

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.¹⁹⁰⁸ 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 achieve food self-sufficiency, with the goal to respond to demographic growth through sustainable agriculture.¹⁹⁰⁹

¹⁹⁰⁶ Pemerintah targetkan penerapan Bantuan Langsung Petani pada 2026, Antara News (Rabu) 17 July 2024.

Translation provided by Google Translate. Access Date: 20 July 2024.

<https://www.antaraneews.com/berita/4202346/pemerintah-targetkan-penerapan-bantuan-langsung-petani-pada-2026>

¹⁹⁰⁷ FAO, KSP, and Coordinating Ministry For Economic Affairs Unveil Programme to Revitalize Indonesia's Agriculture, Food and Agriculture Organization of the United Nations (Jakarta) 2 October 2024. Access Date: 17 October 2024.

<https://www.fao.org/indonesia/news/detail-events/en/c/1711635/>

¹⁹⁰⁸ 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>

¹⁹⁰⁹ 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>

On 15 February 2024, Minister Lollobrigida called for proposals for “Fostering Agroecology at farm and landscape levels,” aimed at fostering agroecology and sustainable farming.¹⁹¹⁰

On 11 March 2024, Deputy Prime Minister Antonio Tajani allocated USD7 million to support the delivery of food and agriculture inputs into Gaza.¹⁹¹¹ 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.¹⁹¹² The investment aims to support research for technological innovation, the expansion of agricultural businesses into international markets and the promotion of a circular economy.

On 15 June 2024, Prime Minister Giorgia Meloni met with the President Abdelmadjid Tebboune of Algeria at the G7 Summit to discuss the Mattei Plan for Africa.¹⁹¹³ The Mattei Plan includes a sustainable agricultural project that involves a “strategic concession of approximately 36,000 hectares of land to be developed with agro-industrial activities.”

On 28 September 2024, the G7 Agriculture Ministers adopted a communique under the Italian Presidency.¹⁹¹⁴ The communique outlines the need for sustainable food systems and agriculture, climate-resilience in agriculture, sustainable fisheries, aquaculture and food security and the importance of involving youth in the agriculture and food sector.

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.

¹⁹¹⁰ 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>

¹⁹¹¹ 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>

¹⁹¹² 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

¹⁹¹³ Vertice G7, incontro bilaterale Meloni Tebboune, Governo Italiano (Roma) 15 June 2024. Translation provided by Google Translate. Access Date: 7 July 2024. <https://www.governo.it/it/articolo/vertice-g7-incontro-bilaterale-meloni-tebboune/26013>

¹⁹¹⁴ G7 Agricoltura. Adottato il comunicato dei Ministri sotto la Presidenza italiana, Ministero dell'agricoltura, della sovranità alimentare e delle foreste (Rome) 28 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.politicheagricole.it/g7-agricoltura-comunicato-ministri>

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.¹⁹¹⁵ 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.¹⁹¹⁶ 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. 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.¹⁹¹⁷ 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.¹⁹¹⁸ 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.¹⁹¹⁹ 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.¹⁹²⁰ Minister Sakamoto emphasized the need for continued bilateral cooperation between the members in the agricultural and food sectors.

¹⁹¹⁵ 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

¹⁹¹⁶ 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

¹⁹¹⁷ 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

¹⁹¹⁸ 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

¹⁹¹⁹ 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

¹⁹²⁰ 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

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.¹⁹²¹ 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 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”¹⁹²² 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.¹⁹²³

On 19 February 2024, Minister Song attended the three-day virtual 37th Session of the FAO Regional Conference for Asia and the Pacific.¹⁹²⁴ 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.¹⁹²⁵ They discussed opportunities for smart agriculture which aims to support climate

¹⁹²¹ 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

¹⁹²² 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>

¹⁹²³ 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>

¹⁹²⁴ 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>

¹⁹²⁵ 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>

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.¹⁹²⁶ Minister Kang expects that bilateral cooperation will be further deepened between the two countries particularly in the agricultural sector.

On 10 September 2024, Vice Minister of Agriculture, Food and Rural Affairs Beomsu Park and Minister for Agriculture, Food and the Marine of Ireland Charlie McConalogue met to discuss agricultural cooperation.¹⁹²⁷ The ministers also signed a Letter of Intent to collaborate on sustainable farming systems and will work towards a Memorandum of Understanding in this respect.

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 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.¹⁹²⁸ 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.¹⁹²⁹ The goal of this measure is to increase the competitiveness and sustainability of the avocado sector.

¹⁹²⁶ 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

¹⁹²⁷ S. Korea and Ireland Inked LoI on Cooperation for Transition to Sustainable Farming Systems, Ministry of Agriculture, Food and Rural Affairs (Seoul) 10 September 2024. Access Date: 17 October 2024. <https://www.mafr.go.kr/bbs/english/25/571545/artclView.do>

¹⁹²⁸ 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>

¹⁹²⁹ 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>

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.¹⁹³⁰ 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.¹⁹³¹ 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.

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.¹⁹³² 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.¹⁹³³ 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.¹⁹³⁴ 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.¹⁹³⁵ This project aims to enhance the

¹⁹³⁰ 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>

¹⁹³¹ 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>

¹⁹³² 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>

¹⁹³³ 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>

¹⁹³⁴ 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>

¹⁹³⁵ 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>

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).¹⁹³⁶ 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 a total weight of 4,113 tons for the 2024 season.¹⁹³⁷ 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.¹⁹³⁸

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.¹⁹³⁹ The guide establishes fruit management protocols, aiming to align practices with best agricultural standards.

On 15 June 2024, INIFAP and the Fujian Agriculture and Forestry University of China signed an agreement to introduce to Mexico to Juncao technology which uses grass to produce mushrooms and fodder for poultry and livestock.¹⁹⁴⁰ This technology can adapt to various climates, promotes soil conservation and has the developmental potential to be used as fertilizer and biomaterial to produce electricity.

On 16 June 2024, INIFAP signed an agreement with Heineken of Mexico to advance development and research of agronomic techniques and promotion of sustainable agricultural practices, particularly

¹⁹³⁶ 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>

¹⁹³⁷ Establece Agricultura cuota de captura de curvina golfinina 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-golfina-en-el-alto-golfo-de-california-y-delta-del-rio-colorado?idiom=es>

¹⁹³⁸ 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>

¹⁹³⁹ 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/diseñan-guia-tecnica-para-manejo-adecuado-de-plantas-de-fresa-que-contribuye-a-aumentar-la-calidad-y-produccion-del-fruto?idiom=es>

¹⁹⁴⁰ Amplía Agricultura investigación en control de erosión del suelo, prevención de desertificación y Desarrollo de forraje y biocombustible, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 15 June 2024. Translation provided by Google Translate. Access Date: 27 June 2024. <https://www.gob.mx/agricultura/prensa/amplia-agricultura-investigacion-en-control-de-erosion-del-suelo-prevencion-de-desertificacion-y-desarrollo-de-forraje-y-biocombustible?idiom=es>

for wheat and barley.¹⁹⁴¹ Joint research programs, technical support, workshops and seminars are included in the agreement to foster the agronomic techniques management and sustainable agricultural practices in different regions in Mexico.

On 22 June 2024, INIFAP launched Calisur, a new variety of chickpea with a substantially “higher yield, size, and tolerance to root diseases” designed specifically to adapt to the effects of climate change.¹⁹⁴² This variety has 3.0 per cent higher yield, producing 3.7 tons per hectare and offers better grain size compared to the two most used varieties by producers in the Santo Domingo Valley and Baja California Sur.

On 22 July 2024, the Ministry of Agriculture and Rural Development together with the Ministry of Agriculture, Livestock and Supply and the Brazilian Agriculture Research Corporation announced that “technical and scientific cooperation projects” will be developed to address agricultural issues.¹⁹⁴³ Two projects focusing on biofuels and pest control have been approved to date.

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.”¹⁹⁴⁴ 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.

¹⁹⁴¹ Desarrollarán Agricultura e industria cervecera investigación y tecnología en buenas practicas agrícolas y nuevas variedades de gramíneas, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 16 June 2024. Translation provided by Google Translate. Access Date: 27 June 2024. <https://www.gob.mx/agricultura/prensa/desarrollaran-agricultura-e-industria-cervecera-investigacion-y-tecnologia-en-buenas-practicas-agricolas-y-desarrollo-de-variedades-de-gramineas?idiom=es>

¹⁹⁴² Ofrece Agricultura a productores nueva variedad de garbanzo, más tolerante a enfermedades, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 22 June 2024. Translation provided by Google Translate. Access Date: 27 June 2024. <https://www.gob.mx/agricultura/prensa/ofrece-agricultura-a-productores-nueva-variedad-de-garbanzo-mas-tolerante-a-enfermedades?idiom=es>

¹⁹⁴³ México y Brasil impulsarán proyectos científicos y tecnológicos en materia agrícola, Secretaría de Agricultura y Desarrollo Rural (Mexico City) 22 July 2024. Access Date: 15 August 2024. <https://www.gob.mx/agricultura/prensa/mexico-y-brasil-impulsaran-proyectos-cientificos-y-tecnologicos-en-materia-agricola?idiom=es>

¹⁹⁴⁴ 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 2024.¹⁹⁴⁵ 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 2024.¹⁹⁴⁶ 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.¹⁹⁴⁷ 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.”¹⁹⁴⁸ 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.¹⁹⁴⁹ This aims to stabilize agricultural produce prices and reduce potential risks for processing companies and consumers.

On 18 June 2024, Russian Prime Minister Mikhail Mishustin announced the development of Long and Active Life, a national project that intends to achieve a substantial increase in the life expectancy of Russian citizens.¹⁹⁵⁰ The project emphasizes the role of agricultural production, aiming to scale up yields by 25 percent and increase exports by 50 percent by the year 2030. The project also focuses on agricultural research, funding projects related to hybrid seed development, veterinary drugs, crop protection agents and additives.

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.

¹⁹⁴⁵ 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/>

¹⁹⁴⁶ 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/>

¹⁹⁴⁷ 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/>

¹⁹⁴⁸ 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/>

¹⁹⁴⁹ Government Meeting, The Russian Government (Moscow) 15 March 2024. Access Date: 17 March 2024. <http://government.ru/en/news/51110/>

¹⁹⁵⁰ Mikhail Mishustin Chairs Strategic Session on Long and Active Life and Technological Support for Food Security National Projects. The Russian Government (Moscow) 18 June 2024. Access Date: 26 June 2024. <http://government.ru/en/news/51884/>

Saudi Arabia: 0

Saudi Arabia 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 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 Cooperation for agriculture.¹⁹⁵¹ 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 Faqeeha attended the third Saudi Green Initiative Forum.¹⁹⁵² 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.¹⁹⁵³

On 3 July 2024, the Ministry of Environment, Water and Agriculture announced the launch of the Kingdom's first AgriFood Tech Alliance which aims to create a platform where AgriFood technological solutions can be shared and implemented among agriculture stakeholders.¹⁹⁵⁴ Vice Minister of Environment, Water and Agriculture Mansour Al-Mushaiti noted that the platform will help stakeholders who are interested in implementing innovative technologies and will advance goals for sustainable agriculture in the Kingdom.

On 12 September 2024, Minister of Environment, Water and Agriculture Abdulrahman AlFadley attended the two-day G20 Agriculture Ministers Meeting where he called for collaboration to develop sustainable food systems.¹⁹⁵⁵

Saudi Arabia 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. Saudi Arabia has taken action towards the commitment through a verbal reaffirmation and memorandum of cooperation. However, it has not taken action across over 50 per cent of the commitment.

¹⁹⁵¹ 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>

¹⁹⁵² 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>

¹⁹⁵³ 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>

¹⁹⁵⁴ MEWA announces the first Saudi AgriFood Tech Alliance, Ministry of Environment, Water and Agriculture (Riyadh) 3 July 2024. Access Date: 15 July 2024. <https://www.mewa.gov.sa/en/MediaCenter/News/Pages/News9842020.aspx>

¹⁹⁵⁵ Saudi Arabia Urges Global Cooperation for Sustainable Food Security, Ministry of Environment, Water and Agriculture (Riyadh) 13 September 2024. Access Date: 17 October 2024. <https://www.mewa.gov.sa/en/MediaCenter/News/Pages/News10312020.aspx>

Thus, Saudi Arabia receives a score of 0.¹⁹⁵⁶

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.¹⁹⁵⁷ 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-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.¹⁹⁵⁸

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.¹⁹⁵⁹ The partnership will focus on agricultural innovations, supporting plant and animal health, climate adaptation and sustainable agriculture.

¹⁹⁵⁶ 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/>

¹⁹⁵⁷ 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.eaunion.org/en/news/EEK-i-profilnye-ministerstva-yuar-obsudili-perspektivy-sotrudnichestva/>

¹⁹⁵⁸ 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>

¹⁹⁵⁹ 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>

On 16 January 2024, the government disclosed a budget allocation of TRY101 billion to the agricultural sector.¹⁹⁶⁰ 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.¹⁹⁶¹ 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.¹⁹⁶² The plan aims to stimulate regional agricultural productivity 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.¹⁹⁶³ 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.¹⁹⁶⁴ 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 2024-2028.¹⁹⁶⁵ 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.

¹⁹⁶⁰ 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>

¹⁹⁶¹ Bakan Yumakli: "2024'Te 527 Su Ve Sulama Tesisini Hizmete Sunmayı Hedefliyoruz," T.C. Tarım 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-Sunmayı-Hedefliyoruz>

¹⁹⁶² Deprem Bölgesindeki Atıl Tarım Arazileri Fide Ve Tohum Desteğiyle Üretime Kazandırılıyor, T.C. Tarım 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>

¹⁹⁶³ Tarım Ve Orman Bakanlığı 1.500 Tarım İşçisi İstihdami Sürecini Başlattı, T.C. Tarım Ve Orman Bakanlığı (Ankara) 13 February 2024. Translation provided by Google Translate. Access Date: 12 March 2024. <https://www.tarimorman.gov.tr/Haber/6197/Tarim-Ve-Orman-Bakanligi-1-500-Tarim-Iscisi-Istihdami-Surecini-Baslatti>

¹⁹⁶⁴ 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>

¹⁹⁶⁵ Bakan Yumakli, 2024-2028 Yillarında Uygulanacak Hayvancılık Yol Haritasını Açıkladı, 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>

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.¹⁹⁶⁶ 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.¹⁹⁶⁷ 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.¹⁹⁶⁸ Assistant Representative of FAO-Türkiye Ayşegül Selişik noted that this project aims to promote good agricultural practices while strengthening climate-resilient production in earthquake affected provinces.

On 12 June 2024, the Ministry of Agriculture and Forestry in collaboration with the FAO conducted Farmers Field School activities in the city of Bolu.¹⁹⁶⁹ Activities were organized as part of the “Promoting Ecosystem-Based Food Production through the Development of the Agro-Ecology Management System in Bolu” project. This allowed experts and farmers from the Bolu Provincial Directorate of Agriculture and Forestry and the Seben Yeniçağa District Directorates to share knowledge on enhancing the environment for sustainable agricultural ecosystems and effective land management.

On 5 July 2024, Minister Yumakli announced that over TRY1 billion in agricultural support payments will be given to producers and farmers.¹⁹⁷⁰ These payments will support agricultural insurance, rural development investment, certified seed production, grain production, and soil analysis.

On 12 July 2024, the Ministry of Agriculture and Forestry announced that over TRY87 million in agricultural support payments will be given to producers and farmers.¹⁹⁷¹ These payments will support grain production, rural development investment, and diesel and fertilizer support.

On 20 July 2024, the Ministry of Agriculture and Forestry announced that over TRY119 million in agricultural support payments will be given to producers and farmers.¹⁹⁷² These payments will support

¹⁹⁶⁶ Bakan Yumakli Azerbaycan Tarim Bakani Memmedov ile Bir Araya Geldi, T.C. Tarim 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>

¹⁹⁶⁷ 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/>

¹⁹⁶⁸ 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/>

¹⁹⁶⁹ FAO and Ministry of Agriculture and Forestry conduct Farmer Field School activity on legumes and forage crops in Bolu, Food and Agriculture Organization of the United Nations (Ankara) 12 June 2024. Access Date: 7 July 2024. <https://www.fao.org/turkiye/news/detail-news/en/c/1696522/>

¹⁹⁷⁰ Bakan Yumakli: “1 Milyar 879 Milyon 139 Bin Liralik Tarimsal Destekleme Ödemesini Bugün Çiftçilerimizin Hesaplarına Aktarıyoruz”, T.C. Tarim Ve Orman Bakanlığı (Ankara) 5 July 2024. Access Date: 15 August 2024. <https://www.tarimorman.gov.tr/Haber/6333/Bakan-Yumakli-%e2%80%981-Milyar-879-Milyon-139-Bin-Liralik-Tarimsal-Destekleme-Odemesini-Bugun-Ciftcilerimizin-Hesaplarına-Aktarıyoruz>

¹⁹⁷¹ 87 Milyon Liralik Destekleme Ödemesi Bugün Hesaplara Aktarılıyor, T.C. Tarim Ve Orman Bakanlığı (Ankara) 12 July 2024. Access Date: 15 August 2024. <https://www.tarimorman.gov.tr/Haber/6339/87-Milyon-Liralik-Tarimsal-Destekleme-Odemesi-Bugun-Hesaplara-Aktarılıyor>

¹⁹⁷² 119 Milyon 106 Bin Liralik Tarimsal Destekleme Ödemesi Hesaplara Aktarıldı, T.C. Tarim Ve Orman Bakanlığı (Ankara) 20 July 2024. Access Date: 15 August 2024. <https://www.tarimorman.gov.tr/Haber/6346/119-Milyon-106-Bin-Liralik-Tarimsal-Destekleme-Odemesi-Hesaplara-Aktarıldı>

grain production, rural development investment, heifer purchases, oilseed crop production, and soil analysis.

On 26 July 2024, Minister Yumaklı announced that over TRY2 billion in agricultural support payments will be given to producers and farmers.¹⁹⁷³ These payments will support agricultural insurance, compensation for production affected by animal diseases, rural development investment, animal genetic resources, certified seed production, research and development and fuel and fertilizer support.

On 25 September 2024, Minister Yumaklı and Azerbaijan Minister of Agriculture Majnun Mammadov met to discuss agricultural cooperation.¹⁹⁷⁴ The ministers also signed a “Declaration of Intent on Strengthening Cooperation in the Field of Livestock and Animal Health.”

On 27 September 2024, Minister Yumaklı announced TRY2,888,041,394 in agricultural support payments for farmers to support plant produce insurance, rural development investment and individual irrigation grants.¹⁹⁷⁵

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.¹⁹⁷⁶ 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.

¹⁹⁷³ 2 Milyar 211 Milyon Liralik Destekleme Ödemesi Bugün Hesaplara Aktarılıyor, T.C. Tarım Ve Orman Bakanlığı (Ankara) 26 July 2024. Access Date: 15 August 2024. <https://www.tarimorman.gov.tr/Haber/6351/2-Milyar-211-Milyon-Liralik-Destekleme-Odemesi-Bugun-Hesaplara-Aktariliyor>

¹⁹⁷⁴ TÜRKİYE VE AZERBAIJAN, HAYVANCILIK ALANINDA İŞ BİRLİĞİNİ GÜÇLENDİRECEK, T.C. Tarım Ve Orman Bakanlığı (Ankara) 25 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.tarimorman.gov.tr/Haber/6403/Turkiye-Ve-Azerbaycan-Hayvancilik-Alaninda-Is-Birligini-Guclendirecek>

¹⁹⁷⁵ YAKLAŞIK 2.9 MİLYAR LİRALIK DESTEKLEME ÖDEMESİ HESAPLARA AKTARILYOR, T.C. Tarım Ve Orman Bakanlığı (Ankara) 27 September 2024. Translation provided by Google Translate. Access Date: 17 October 2024. <https://www.tarimorman.gov.tr/Haber/6406/Yaklasik-2-9-Milyar-Liralik-Destekleme-Odemesi-Hesaplara-Aktariliyor>

¹⁹⁷⁶ £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>

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.¹⁹⁷⁷ 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.¹⁹⁷⁸ Funding will support food security, address poverty and promote environmentally friendly and climate-resilient agricultural production and food systems.

On 4 January 2024, Environment Secretary Steve Barclay announced over 50 new actions for which farmers can be paid.¹⁹⁷⁹ 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 2024.¹⁹⁸⁰ 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).¹⁹⁸¹ 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.¹⁹⁸² 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

¹⁹⁷⁷ 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>

¹⁹⁷⁸ 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>

¹⁹⁷⁹ 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>

¹⁹⁸⁰ 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>

¹⁹⁸¹ 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://defra.farming.blog.gov.uk/2024/02/13/spotlight-on-updates-and-additions-to-livestock-and-grassland-offer/>

¹⁹⁸² 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/>

Kingdom, alongside EUR15 million in funding to reduce food waste from farms.¹⁹⁸³ The aim is to monitor food security more closely in the United Kingdom.

On 14 May 2024, Prime Minister Sunak announced that support will be provided to the domestic food production sector to boost innovation.¹⁹⁸⁴ The plan involves a guaranteed access to affordable and sustainable access to energy and water for the agricultural sector and a potential investment of GBP80 million by the Department for Environment, Food and Rural Affairs to the horticulture industry. The government will also provide GBP75 million to internal drainage boards to support modernization, farm resilience and recovery from winter storms.

On 21 May 2024, the Department for Environment, Food and Rural Affairs and Farming Minister Mark Spencer announced the improved Sustainable Farming Incentive (SFI) which will be available to farmers in the UK from July 2024.¹⁹⁸⁵ The new SFI now includes over 20 new actions in addition to its original 102 actions. These new actions, designed in collaboration with the agricultural sector, aim to boost yields and reduce overall input costs.

On 17 September 2024, the Department for Environment, Food and Rural Affairs shared that Minister of Food Security and Rural Affairs Daniel Zeichner signed the G20 Agriculture Ministers Declaration.¹⁹⁸⁶ The United Kingdom worked to ensure that the declaration encourages sustainable agriculture and Minister Zeichner reaffirmed the UK's commitment towards sustainable agri-food systems.

On 30 September 2024, the Government of the United Kingdom announced new legislation to reduce costs to farmers, support the growing of drought and disease resistant crops and use “[new] precision breeding technology to increase food production.”¹⁹⁸⁷ These measures will support increased food production and climate-resilient agriculture while reducing pesticide use.

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

¹⁹⁸³ 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/>

¹⁹⁸⁴ Government unveils major package of farming and food sector support, Department for Environment, Food & Rural Affairs (London) 14 May 2024. Access Date: 7 July 2024. <https://www.gov.uk/government/news/government-unveils-major-package-of-farming-and-food-sector-support>

¹⁹⁸⁵ Expanded and improved Sustainable Farming Incentive offer for farmers published, Department for Environment, Food & Rural Affairs (London) 21 May 2024. Access Date: 7 July 2024. <https://www.gov.uk/government/news/expanded-and-improved-sustainable-farming-incentive-offer-for-farmers-published>

¹⁹⁸⁶ UK helps secure ambitious declaration to promote sustainable farming and food security, Department for Environment, Food & Rural Affairs (London) 17 September 2024. Access Date: 17 October 2024. <https://www.gov.uk/government/news/uk-helps-secure-ambitious-declaration-to-promote-sustainable-farming-and-food-security>

¹⁹⁸⁷ New legislation to support precision breeding and boost Britain's food security, Department for Environment, Food & Rural Affairs (London) 30 September 2024. Access Date: 17 October 2024. <https://www.gov.uk/government/news/new-legislation-to-support-precision-breeding-and-boost-britains-food-security>

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.¹⁹⁸⁸ 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.¹⁹⁸⁹

On 7 February 2024, the Department of Agriculture awarded USD270 million in cooperative agreements to state departments of agriculture.¹⁹⁹⁰ 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.¹⁹⁹¹

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.¹⁹⁹² 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.¹⁹⁹³ 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 markets and new technologies and purchase technologies as needed.¹⁹⁹⁴ Recipients include Big Sandy

¹⁹⁸⁸ 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>

¹⁹⁸⁹ 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>

¹⁹⁹⁰ 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>

¹⁹⁹¹ 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>

¹⁹⁹² 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>

¹⁹⁹³ 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-serve-land-through-climate-smart>

¹⁹⁹⁴ 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>

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.¹⁹⁹⁵ 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.¹⁹⁹⁶ 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.¹⁹⁹⁷ Funding will be provided through the “Rapid Response to Extreme Weather Events Across Food and Agriculture Systems” program.

On 26 February 2024, the Department of Agriculture and Department of Energy launched the Rural and Agricultural Income and Savings from Renewable Energy (RAISE) initiative.¹⁹⁹⁸ Under the Rural Energy for America Program, RAISE aims to help 400 individual farmers deploy smaller-scale wind projects. This initiative will create long-lasting economic benefits for farmers while supporting a climate-resilient agricultural system.

On 11 June 2024, the Department of Agriculture and the Foundation for Food and Agriculture Research announced a global innovation challenge to develop climate-smart agriculture, promote equity and improve nutrition security.¹⁹⁹⁹ Successful applicants will receive USD2 million each to support sustainable food production and improve human health amongst other goals.

On 26 June 2024, the Department of Agriculture and Cornell University’s College of Agriculture and Life Sciences hosted a ceremony in the Cornell AgriTech campus for the new National Grape

¹⁹⁹⁵ 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>

¹⁹⁹⁶ 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>

¹⁹⁹⁷ 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>

¹⁹⁹⁸ Department of Agriculture, Department of Energy Launch Initiative to Help Farmers Reduce Costs with Underutilized Renewable Technologies as part of President Biden’s Investing in America Agenda, U.S. Department of Agriculture (Washington D.C.) 26 February 2024. Access Date: 7 July 2024. <https://www.usda.gov/media/press-releases/2024/02/26/departments-agriculture-department-energy-launch-initiative-help>

¹⁹⁹⁹ Secretary Vilsack Announces USDA and FFAR Innovation Challenge to Catalyze Agricultural Solutions, U.S. Department of Agriculture (Washington D.C.) 26 June 2024. Access Date: 17 July 2024. <https://www.usda.gov/media/press-releases/2024/06/11/secretary-vilsack-announces-usda-and-ffar-innovation-challenge>

Improvement Center.²⁰⁰⁰ The Grape Genetics Research Unit and Plant Genetic Resources Unit in the research facility will improve grape production and enhance climate resilience.

On 24 July 2024, the National Institute of Food and Agriculture (NIFA) announced USD8 million in investments towards the Sustainable Agroecosystems program within the Agriculture and Food Research Initiative.²⁰⁰¹ Research projects under the program aim to improve the health of ecosystems such as croplands and rangelands which are risk due to invasive species or environmental pressures.

On 31 July 2024, NIFA announced USD7.9 million in investments for agricultural microbiome research.²⁰⁰² Supported by the Agricultural Microbiomes in Plant Systems and Natural Resources program, the research aims to improve agricultural productivity, adaptation towards climate change and the sustainability of agricultural ecosystems.

On 7 August 2024, the NIFA announced USD7.4 million in investments for the “intersection between data science/artificial intelligence and agricultural areas.”²⁰⁰³ The investment aims to support the integration of new technologies in the agricultural sector and improve the management of resources.

On 10 September 2024, the Department of Agriculture announced almost USD121 million in funding for research on specialty crops and organic agriculture focused on sustainability and environmental resilience.²⁰⁰⁴ Of this, USD6.7 million will go to Washington State University to develop climate-resilient solutions for apple and pear crops and USD1.9 million will go to Pennsylvania State University to enhance the productivity and climate-resilience of small grains.

On 24 September 2024, the Department of Agriculture announced USD466.5 million in funding for international agricultural projects.²⁰⁰⁵ Of this, Food for Progress projects will focus on climate-smart agriculture and food security in Benin, Cambodia, Madagascar, Rwanda, Sri Lanka, Tanzania and Tunisia.

On 30 September 2024, the Department of Agriculture and Foundation for Food and Agriculture Research announced that the Innovation Challenge for Agrifood breakthroughs will fund projects at the Columbia University, the University of British Columbia and From the Land LLC with a total of USD1.15 million.²⁰⁰⁶ In particular, Columbia University’s project will focus on climate-resilience and

²⁰⁰⁰ USDA and Cornell University Break Ground on National Grape Improvement Center in Geneva, New York, U.S. Department of Agriculture (Washington D.C.) 26 June 2024. Access Date: 7 July 2024. <https://www.ars.usda.gov/news-events/news/research-news/2024/usda-and-cornell-university-break-ground-on-national-grape-improvement-center-in-geneva-new-york/>

²⁰⁰¹ NIFA Invests \$8M in Sustainable Agroecosystems (A1451), U.S. Department of Agriculture (Washington D.C.) 24 July 2024. Access Date: 15 August 2024. <https://www.nifa.usda.gov/about-nifa/announcements/nifa-invests-8m-sustainable-agroecosystems-a1451>

²⁰⁰² NIFA Invests \$7.9M in Agricultural Microbiome Research (A1402), U.S. Department of Agriculture (Washington D.C.) 31 July 2024. Access Date: 15 August 2024. <https://www.nifa.usda.gov/about-nifa/announcements/nifa-invests-79m-agricultural-microbiome-research-a1402>

²⁰⁰³ NIFA Invests \$7.4M in Data Science for Food and Agricultural Systems (A1541), U.S. Department of Agriculture (Washington D.C.) 7 August 2024. Access Date: 15 August 2024. <https://www.nifa.usda.gov/about-nifa/announcements/nifa-invests-74m-data-science-food-agricultural-systems-a1541>

²⁰⁰⁴ USDA Invests Nearly \$121M in Specialty Crops Research and Organic Agriculture Production, U.S. Department of Agriculture (Washington D.C.) 10 September 2024. Access Date: 18 October 2024. <https://www.usda.gov/media/press-releases/2024/09/10/usda-invests-nearly-121m-specialty-crops-research-and-organic>

²⁰⁰⁵ USDA Invests \$466.5 Million in Food Assistance, Agricultural Development Projects Worldwide, U.S. Department of Agriculture (Washington D.C.) 24 September 2024. Access Date: 18 October 2024. <https://www.usda.gov/media/press-releases/2024/09/24/usda-invests-4665-million-food-assistance-agricultural-development>

²⁰⁰⁶ USDA and FFAR Announce Innovation Challenge Projects Aimed at Catalyzing Transformative Research Solutions, U.S. Department of Agriculture (Washington D.C.) 30 September 2024. Access Date: 18 October 2024.

sustainable rice cultivation in Puerto Rico and the University of British Columbia will focus on climate-smart coating to protect fresh produce.

On 2 October 2024, the Department of Agriculture announced up to USD7.7 billion in funding in fiscal year 2025 to support agricultural and forestry conservation.²⁰⁰⁷ Funding will enable practices and innovations for climate-resilience including cover cropping, conservation tillage and nutrient management.

On 4 October 2024, the Department of Agriculture announced USD11.04 million in funding under the Dairy Business Innovation Initiatives grant program to support the development, production and marketing of dairy products.²⁰⁰⁸ Of this, the University of Tennessee will receive USD3.45 million to enable innovative dairy practices and sustainability in farming.

On 9 October 2024, the Department of Agriculture announced USD46 million in funding for projects and grants for veteran, underserved and new farmers and ranchers.²⁰⁰⁹ Amongst these, Nirvanta Tea Inc. in Detroit will provide education and mentorship to underserved beginning farmers focused on sustainable farming and the Florida International University Board of Trustees will teach veterans and youth about climate-smart and sustainable agriculture.

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.

Analysts: 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.

On 7 December 2023, the European Commission adopted new guidelines for agricultural sustainability agreements.²⁰¹⁰ 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.

²⁰⁰⁷ Biden-Harris Administration Makes up to \$7.7 Billion Available for Climate-Smart Practices on Agricultural Lands as Part of Investing in America Agenda, U.S. Department of Agriculture (Washington D.C.) 2 October 2024. Access Date: 18 October 2024. <https://www.usda.gov/media/press-releases/2024/10/02/biden-harris-administration-makes-77-billion-available-climate>

²⁰⁰⁸ USDA Invests more than \$11 Million to Support Resiliency in U.S. Dairy Industry, U.S. Department of Agriculture (Washington D.C.) 4 October 2024. Access Date: 18 October 2024. <https://www.usda.gov/media/press-releases/2024/10/04/usda-invests-more-11-million-support-resiliency-us-dairy-industry>

²⁰⁰⁹ USDA Invests More Than \$46 Million for Underserved, Veteran, and Beginning Farmers and Ranchers Development Projects Nationwide, U.S. Department of Agriculture (Washington D.C.) 9 October 2024. Access Date: 18 October 2024. <https://www.usda.gov/media/press-releases/2024/10/09/usda-invests-more-46-million-underserved-veteran-and-beginning>

²⁰¹⁰ 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

On 8 December 2023, the Council of the EU approved a 2024 fishing deal between the EU and UK.²⁰¹¹ 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.²⁰¹² 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.²⁰¹³ 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.²⁰¹⁴ 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.²⁰¹⁵ 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.²⁰¹⁶ 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 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.

On 17 May 2024, the European Commission launched the Agri Sustainability Compass, an interactive online tool that provides "clear and comprehensible information" on agricultural sustainability.²⁰¹⁷ This tool aims to help farmers understand how the agricultural sector is performing based on the EU's

²⁰¹¹ 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/>

²⁰¹² 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

²⁰¹³ 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>

²⁰¹⁴ 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

²⁰¹⁵ 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

²⁰¹⁶ 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

²⁰¹⁷ Commission launches new online tool on sustainability in agriculture, European Commission (Brussels) 17 May 2024. Access Date: 7 July 2024. https://agriculture.ec.europa.eu/news/commission-launches-new-online-tool-sustainability-agriculture-2024-05-17_en

sustainability standards and assess which farming practices such as crop diversity and nitrates in groundwater are best suited to their needs.

On 6 September 2024, the European Investment Bank and La Banque Agricole du Sénégal signed a EUR30 million loan agreement for sustainable agricultural value chains in Senegal.²⁰¹⁸ This partnership will enable sustainability of agricultural value chains especially for cereals, horticulture, peanuts and cashews while increasing productivity and developing climate resilient agriculture.

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

²⁰¹⁸ Senegal: la Banque Agricole and EIB sign agreement to back food sovereignty with EU support, European Investment Bank (Luxembourg) 6 September 2024. Access Date: 18 October 2024.
<https://www.eib.org/en/press/all/2024-321-la-banque-agricole-et-la-bei-avec-le-soutien-de-l-ue-signent-un-accord-pour-appuyer-la-souverainete-alimentaire-du-senegal>