

Data Name	Data Link	Variables	Temporal Coverage	Geographical Coverage	Use
Resistant	<a href="https://zenodo.org/">https://zenodo.org/</a>	Minimum Inhibitory Concentration (MIC) values, resistance trends	Varies by dataset (often annual)	Primarily EU/EEA	European Union Summary Report on Antimicrobial Resistance in Zoonotic and Indicator Bacteria from Humans, Animals and Food
Soybean	<a href="https://www.fao.org/faostat/en/#data/QCL">https://www.fao.org/faostat/en/#data/QCL</a>	Production volume, harvested area, yield (tonnes/ha)	1961–2023 (annual)	Global (country-level)	Animal feed, edible oil, and land use change analysis
Rapeseed	<a href="https://www.fao.org/faostat/en/#data/QCL">https://www.fao.org/faostat/en/#data/QCL</a>	Production volume, harvested area, yield (tonnes/ha)	1961–2023 (annual)	Global (country-level)	Biofuel feedstock and edible oil trends analysis
Maize	<a href="https://www.fao.org/faostat/en/#data/QCL">https://www.fao.org/faostat/en/#data/QCL</a>	Production volume, harvested area, yield (tonnes/ha)	1961–2023 (annual)	Global (country-level)	Agricultural productivity and food security trends
Temperature_Change	<a href="https://www.fao.org/faostat/en/#data/ET">https://www.fao.org/faostat/en/#data/ET</a>	Temperature change relative to 1951–1980 baseline	1961–2023 (annual, monthly, seasonal)	Global (country-level)	Long-term climatic trend assessment
Fertilizer	<a href="https://www.fao.org/faostat/en/#data/RFN">https://www.fao.org/faostat/en/#data/RFN</a>	Fertilizer use by nutrient type (tonnes)	1961–2023 (annual)	Global (country-level)	Agricultural intensification and environmental impact analysis
Pesticide	<a href="https://www.fao.org/faostat/en/#data/RP">https://www.fao.org/faostat/en/#data/RP</a>	Insecticides, herbicides, fungicides	1990–2023 (annual)	Global (country-level)	Agrochemical use monitoring and environmental risk assessment
Precipitation	<a href="#">[ten00001] Water resources: long-term annual average</a>	Annual precipitation (mm, million m <sup>3</sup> )	~1990–present (varies by country)	EU, EFTA, candidate countries	Water availability and climate variability assessment
Renewable Freshwater Resources	<a href="#">[ten00003] Fresh water abstraction by source per capita - m<sup>3</sup> per capita</a>	Internal/external flows, total renewable freshwater, per capita	~1990–present (varies by country)	EU, EFTA, candidate countries	Water sustainability and resource pressure analysis
Land_Use	<a href="https://ourworldindata.org/land-use">https://ourworldindata.org/land-use</a>	Arable land, permanent crops, pastures (hectares)	10,000 BCE – 2023 CE (annual)	Global	Long-term land use change and agricultural expansion analysis
Population	<a href="https://www.fao.org/faostat/en/#data/OA">https://www.fao.org/faostat/en/#data/OA</a>	Sex, urban/rural status, projections	1950–2100 (annual)	Global (UN M49 classification)	Demographic analysis for food demand and environmental impact
GhG_Emissions	<a href="#">[sdg 13 10] Domestic net greenhouse gas emissions</a>	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, PFCs, HFCs, SF <sub>6</sub> , NF <sub>3</sub>	1990–latest (some data back to 1985)	EU Member States	Emission trends, mitigation, and policy evaluation

**Table S1. Selected AMR & indicators, data sources and their characteristics. The temporal coverage listed indicates the full range available from the source.**