## SOY

## U.S. Soybean Sustainability Compared to Other Plant Proteins

Global demand for soybeans is growing, and with businesses, states and countries adopting sustainable policies and committing to building a better environment, that demand is only going to continue.

Consumers also increasingly expect the products they buy to come from sustainable sources and soybean customers are passing those demands on to producers.

**SUSTAINABLE** 

🥌 U.S. SOY

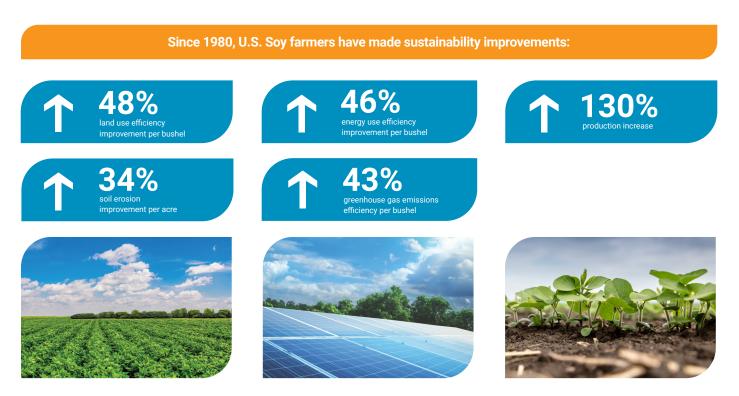
This is where U.S. Soy continues to meet the expectations of its customers, with U.S. soybeans having the lowest carbon footprint compared with other types of proteins.

U.S. Soy farmers are industry leaders in implementing innovative solutions that ensure they can produce more with fewer resources. Their farming practices are helping to reduce the carbon footprint of their crops as part of an ongoing commitment to sustainability. This allows our customers to produce food, feed, energy and other products that support a healthy society while also preserving the environment for future generations.

Between 1982 and 2020, U.S. forestland increased by 2.1 million hectares while cropland decreased by 21.3 million hectares.

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U.S. soybeans offer a sustainable and more environmentally friendly solution to growing demand, particularly when compared to other plant-based proteins including peas from Canada, Russia and France, chickpeas from Australia and India, and broad beans from Australia and France.

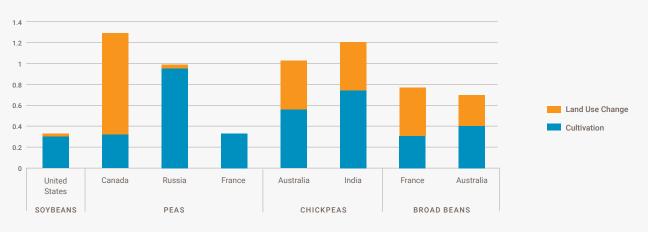
The U.S. Soybean Export Council, with support from the soy checkoff, partnered with Blonk Consultants, a leading international expert in food system sustainability, to use the Agri-footprint database to evaluate the carbon footprint of various plant protiens sourced from different countries. The Agri-footprint database is based on Life Cycle Assessment (LCA) methodology, which considers the Land Use Change (LUC) impact according to the Product Environmental Footprint standard used by the European Commission to calculate the environmental footprint of a specific product. The Agri-footprint database is used to calculate the carbon footprint for a wide range of country-crop combinations. The figure below shows that the carbon footprint of U.S. soybeans is significantly lower than other proteins such as peas, chickpeas and broad beans from other origins. In fact, U.S. soybeans are responsible for just 0.3 kilograms of CO2 per kilogram of product. This compares to peas from Canada (1.3 kilograms), Russia (1 kilogram) and France (also at 0.3 kilograms), chick peas from Australia (just over 1 kilogram) and India (1.2 kilograms), and broad beans from Australia (0.7 kilograms) and France (almost 0.8 kilograms).

With U.S. soybean farmers adopting and implementing innovative practices and firmly committed to producing crops sustainably, it's clear that U.S. soybeans have an advantage when compared to products from other origins. U.S. soybean farmers are making sure that the carbon footprint of U.S. Soy not only remains low, but that we also continue to develop practices that further minimize our emissions today and in the future.

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## US Soybeans vs. Other Proteins



## Carbon Footprint (in. Land Use Change, ex. Peat) - Total (kg CO<sub>2</sub> eq/kg product)\*



Source: Blonk Consultants, Agri-footprint

\* Results based on default emission modeling, including land use change emissions, according to the rules of the PEFCR-Feed guidance document (European Commission, 2018) as implemented in the Agri-Footprint 5.0 database. Input data rely on country average FAO statistics and other secondary sources. Supplier specific information would improve data quality and may provide differing results. Comparisons have not been reviewed in the context of ISO 14040/14044 compliance.

