

Americans are encouraged to eat more fruits and vegetables as part of a healthy, balanced diet.

However, sustainably meeting increased demand for these highly nutritious foods will be challenging for domestic production regions in the United States due to many factors.



01

Increased demand for highly nutritious food grown in domestic production regions



02

Climate change & increased competition for natural resources



03

Cost & availability of labor in the US. Rise of protected & peri-urban production



04

Consumer preference for fresh F&V grown locally



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Learn More

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Project Website

www.ilsr.org/what-we-do/nutrition/fruit-vegetable-supply-chains/



Fruit & Vegetable Supply Chains

Climate Adaptation & Mitigation Opportunities



ILSI Research Foundation

UF IFAS
UNIVERSITY of FLORIDA



ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN



World Agricultural Economic & Environmental Services

WASHINGTON STATE
UNIVERSITY

About the Project

Using an integrated, collaborative approach, a multi-disciplinary, multi-institutional team co-led by the ILSI Research Foundation and the University of Florida, along with the International Food Policy Research Institute, University of Arkansas, University of Illinois, Washington State University, and World Agricultural Economic and Environmental Services will **help the US maintain a nutritious, reliable, affordable, and environmentally-sound food supply.**

8 Crops



Carrots, green beans, oranges, potatoes, spinach, strawberries, sweet corn, and tomatoes were selected based on importance to nutrition as well as data and model availability.

Enhancing the productivity, resilience and sustainability of domestic produce supply chains

Multi-Disciplinary Team



Crop Modeling

UF, WSU, and UIUC will determine current and future climate and water availability impacts on yield and quality of selected crops in current and potential future production.



Economic Modeling

IFPRI and WAEES will determine current and future prices and production costs of selected fruit and vegetable crops, with a focus on California, the Pacific Northwest and Southeast.



Life Cycle Assessment Modeling

UARK will identify and evaluate cost-effective adaptation and mitigation opportunities.



Stakeholders & Extension

ILSI RF, UF, and WSU will engage stakeholders and decision makers to ensure models reflect realistic practices and that outputs provide useful, actionable information.