

UPOV Developments (Smallholder Farmers & EDV): What They Mean for the Seed Industry

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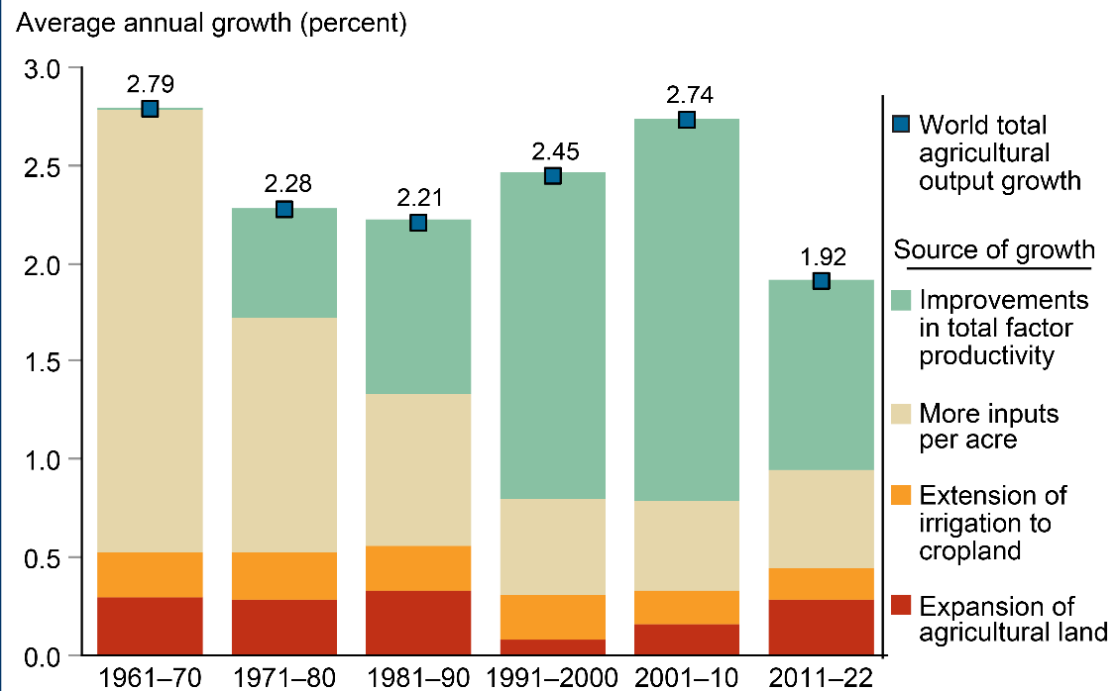
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Drivers of Agricultural Performance

Better seeds & improved varieties in terms of e.g., climate adaptation, yield, resistance.

Sources of growth in global agricultural output, 1961–2022

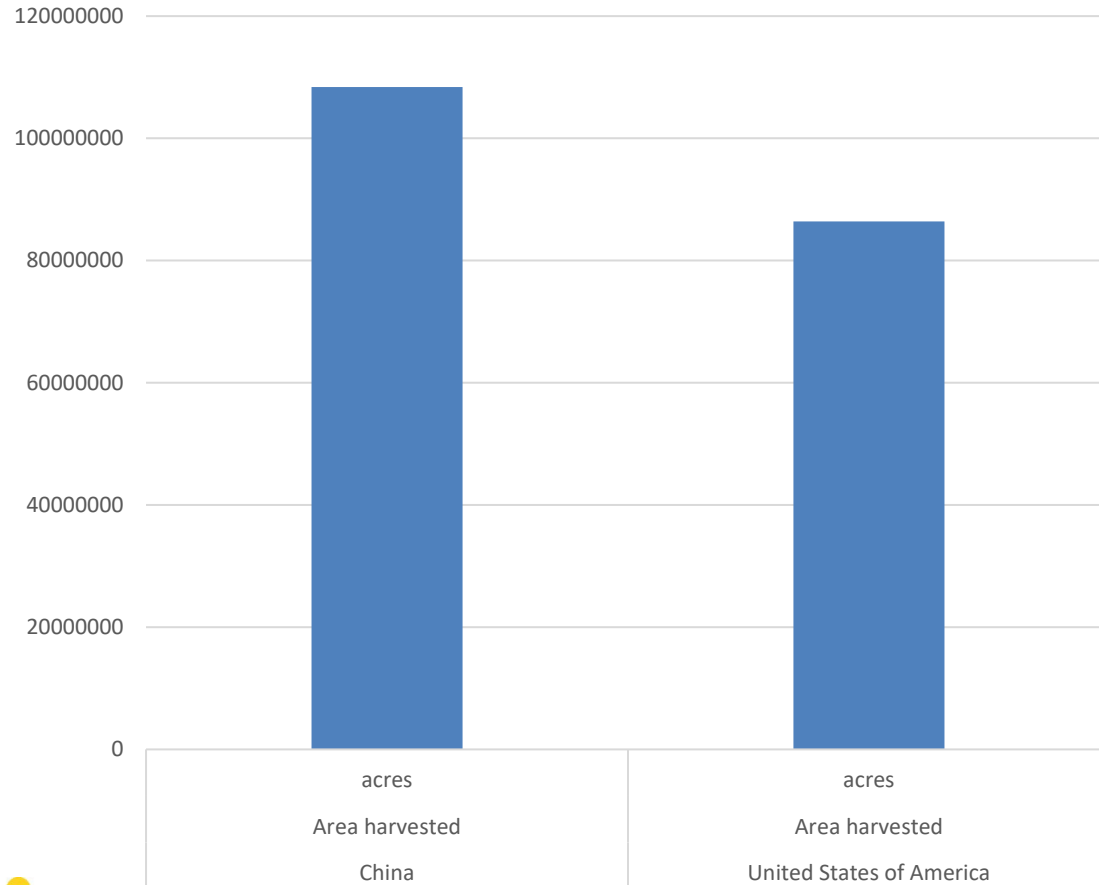


Source: USDA, Economic Research Service, International Agricultural Productivity data product. Data and methods are as of October 2024.

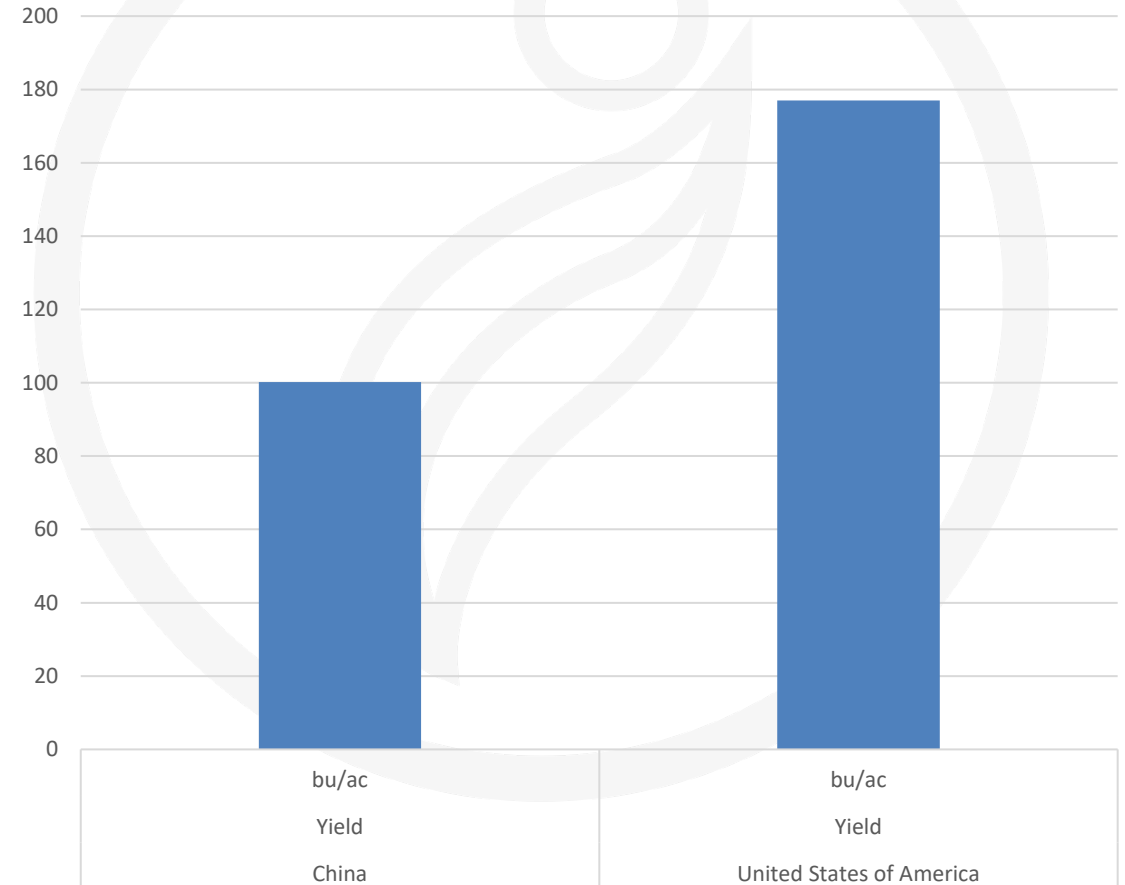


Correlation of Incentives and Innovation

2021 Harvested Area



2021 Corn Yield Per Acre



Advancing Agricultural Practices

- **Fair Planet:**
 - A non-profit organization collaborating with leading vegetable seed companies (Syngenta, Limagrain, Enza Zaden, Bayer, East-West Seed, Sakata) in Ethiopia and Tanzania
 - Training for improved farming practices
 - Access to high-quality seeds

(Source: fairplanet.org)



Availability of Quality Seeds

- **Vietnam:** from public breeding to boosted productivity and resilience in remote areas
- Professional distribution systems:
 - Steady supply even in previously underserved areas
 - Quality seeds
 - Performance predictability for farmers





Licensing and Affordability

- **University of California Davis:** preferred treatment to Californian farmers
 - 1st access to new varieties
 - Reduced royalty rates
 - Broader sales territories

Licensing Conditional upon Inclusion of Smallholder Farmers

- **South African Agricultural Research Council:** licensing conditional upon inclusion of smallholder citrus farmers in the commercialization value-chain



EDV

- Supporting & furthering the improved UPOV EXN (2023) – work on scope and predictability:
 - Practical examples
 - Broader EDV concept in ISF IP position
 - Guidelines with thresholds for genetic similarity
 - Arbitration process





Seed is Life