



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

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NIFA Funding Accelerates Wheat & Barley Plant Breeding

The Triticeae* Coordinated Agricultural Project (T-CAP) is a USDA National Institute of Food and Agriculture (NIFA) Agriculture and Food Research Initiative grant that develops new wheat and barley varieties for changing environments. T-CAP addresses food security and nutrition demands of a growing population and helps ensure the prosperity of American growers.

T-CAP VARIETIES represent about **15%** of the wheat and **4%** of the barley harvested in the United States, with a production value of **\$1.8B** and **\$61M**, respectively.

\$1.8B
PRODUCTION VALUE

T-CAP SUPPORTS PARTNERSHIPS BY:



- **UNITING** the breeding and genetic research communities
- **ENCOURAGING** public-private collaboration

- **INTEGRATING** breeding efforts to avoid duplication
- **FUNDING 56** participants at **28** institutions in **21** states across the country
- **EMPOWERING** the wheat and barley breeders and growers through federal funding
- **ADVANCING** science to maximize productivity

WHEAT IN AMERICA



2014 production: > **\$12B**

2014 harvested acres: > **46.4M**

2012 consumption per person:
> **132 POUNDS**

is grown in **42 STATES** with more than **63 VARIETIES** developed by **T-CAP**

USED TO MAKE MANY POPULAR FOODS AND BEVERAGES

BARLEY IN AMERICA

2014 production: **\$870M**

2014 harvested acres:
2.5M



T-CAP TRAINED STUDENTS HAVE BEEN HIRED BY:

MORE THAN
100
TRAINED
STUDENTS

- **57** U.S. companies/foundations
- **40** U.S. academic institutions and/or the government
- **18** international venues

***Triticeae**: A taxonomic group of grasses that include many domesticated grains such as **wheat**, **barley**, and **rye**.

NIFA FUNDING
ACCELERATES
**WHEAT
& BARLEY
BREEDING**



FUNDS RELEASED
TO UNIVERSITIES



IDENTIFY
DESIRABLE TRAITS



BREEDING &
FIELD TESTING



SEEDS PREPARED
FOR GROWERS



FARMERS PRODUCE
GRAIN CROPS



GRAIN PRODUCTS
SOLD AT MARKET