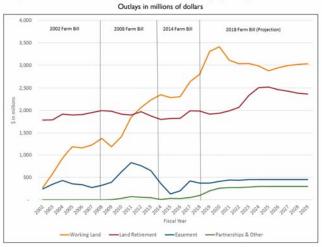
# Farm Bill Conservation **Programs**

Nathan P. Hendricks and Micah Cameron-Harp Department of Agricultural Economics Kansas State University



Figure 4. Farm Bill Conservation Program Mandatory Spending, FY2002-F2029



Source: CRS using CBO baseline data, FY2001-FY2019.

Notes: PX2002 through FY2018 include actual spending levels. FY2019 through FY2029 are projected spending levels. Chart does not include sequestration or savings from repealed programs. Working lands include the Environmental Quality Incentives Program (EQIP), Conservation Stewardship Program (CSP), Agricultural Management Assistance (AMA), and earlier programs; land retirement includes the Conservation Reserve Program (CRP) and subprograms; easement includes the Agricultural Conservation Easement Program (ACEP) and earlier programs; and other includes the Regional Conservation Partnership Program (RCPP) and other

Source: CRS

# Land Retirement Programs

## Types of CRP

#### General

- Bids solicited during sign-up period
- Accepted by ranking Environmental Benefits Index (EBI)

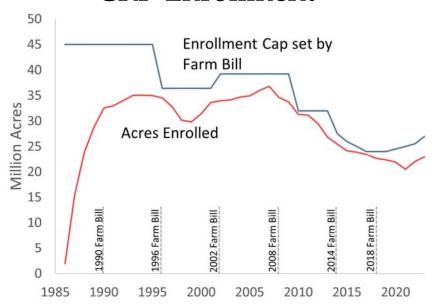
#### **Continuous**

- No bidding
- Address specific resource concerns
- Land must qualify

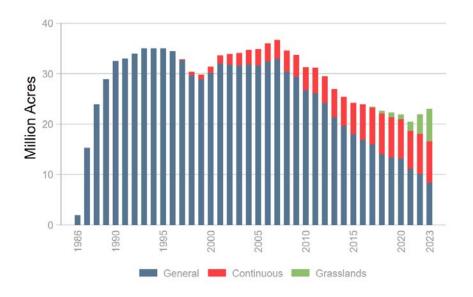
#### **Grasslands**

- Bids solicited during sign-up period
- Rent capped at 75% of grazing value
- Prioritize expiring CRP or environmentally sensitive land

### **CRP** Enrollment



## CRP Enrollment by Signup Type



### 2023 Signups

- General Signup 60
  - 1.07 million acres accepted
  - 0.03 million acres expiring
  - US: 90% accepted
  - KS 96% accepted
- Continuous Signup
  - Still enrolling
- Grassland Signup 205
  - 2.7 million acres accepted
  - US: 58% accepted
  - KS: 62% accepted

# Working Lands Programs

## Working Lands Programs

#### **EQIP**

- Contract to implement practice
- 50% of funds for livestock
- 10% of funds for wildlife

#### **CSP**

- Payments to maintain and improve conservation systems
- 5-year contracts with option to renew

### **EQIP**

- Payment rate set when contract is signed.
- Length of contract depends on resource concern.
- Remember: It is a contract.
- Funding is allocated to different ranking categories. Ranking depends on...
  - Number of resource concerns treated.
  - Practices implemented.
  - Location within priority area.
- Average acceptance rate of 30-50%, but depends on initiative and location.
- Large demand for water quality practices and lot of funding allocated to this area also.

# Partnership Programs

### **RCPP**

- Partnership agreements to address specific resource concern in a region
- 5-year agreements

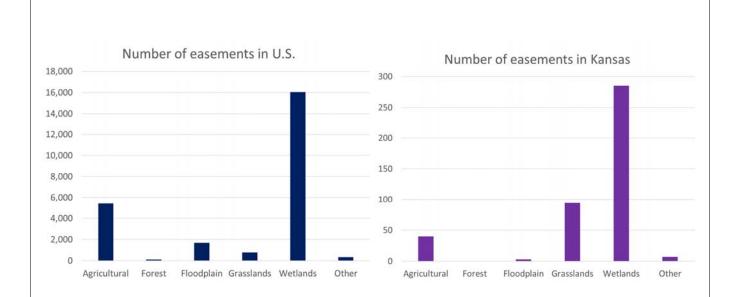
### Examples of RCPP in Kansas

- South Fork Republican River in Cheyenne County: implement brush management and alternative livestock watering
- Groundwater Recharge and Sustainability Project in Wichita and Greeley counties: implement irrigation practices and restore playas

# Easement Programs

# Agricultural Conservation Easement Program (ACEP)

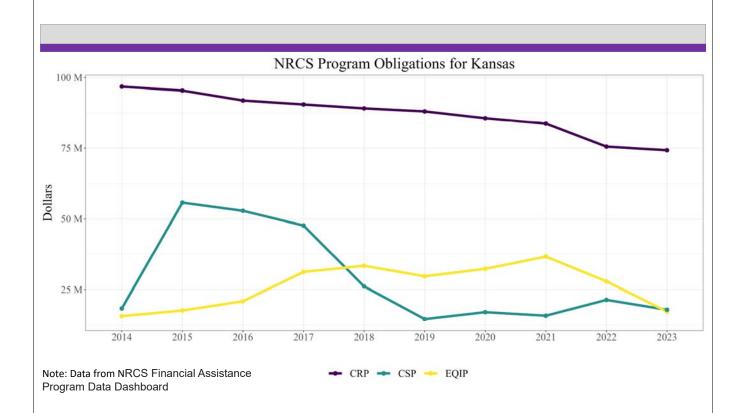
- Agricultural Land Easements (ALE): limits non-ag uses of land
- Wetland Reserve Easement (WRE): protects wetlands
- 87% of easements are permanent

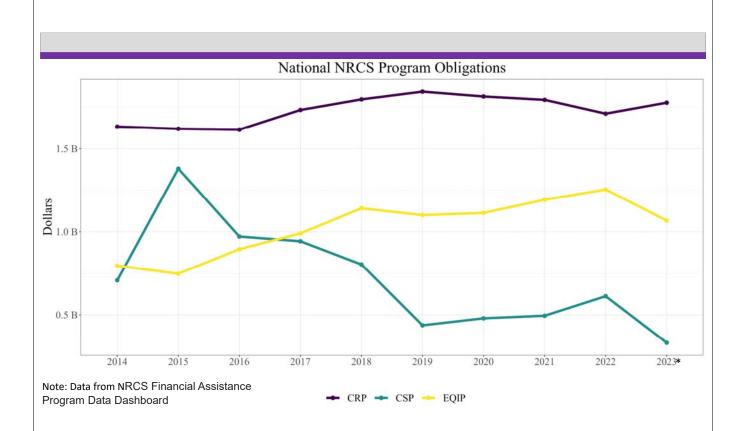


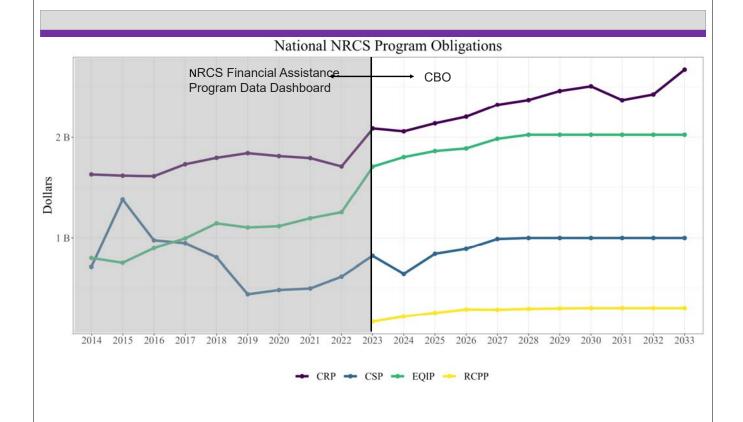
## Inflation Reduction Act

### **IRA Priorities**

- Focused on climate-smart practices
- Already allocated some IRA dollars to existing initiatives this past year
- Typically, not funding structural practices



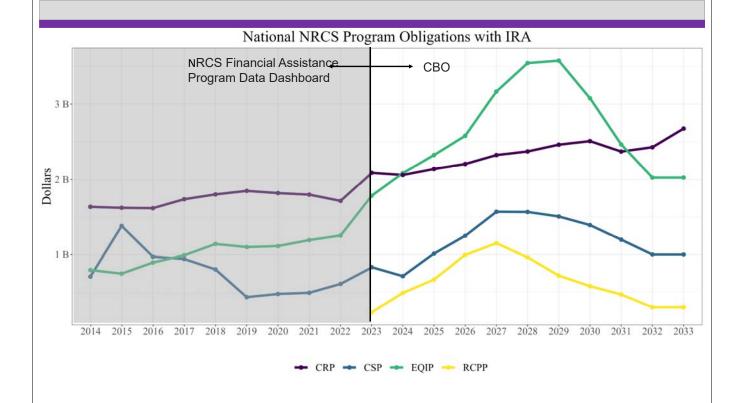




# How might I.R.A. affect programs?

Program	Budget authority by year			
	2023	2024	2025	2026
EQIP	\$250 M	\$1,650 M	\$2,829 M	\$3,253 M
CSP	\$250 M	\$471 M	\$943 M	\$1,414 M
RCPP	\$250 M	\$754 M	\$1,414 M	\$2,263 M
ACEP	\$100 M	\$189 M	\$471 M	\$566 M

<sup>\*</sup>Values from appendix to May 2023 CBO report: "Additional Funding Provided by P.L. 117-169 for USDA Conservation"





## Climate-Smart Commodities

(not Farm Bill, authorized through CCC)

#### **Climate-Smart Commodities**

- Implemented through grants to partners
- USDA stated objectives:
  - Pay farmers to implement practices
  - Pilot methods to quantify, monitor, report, and verify GHG benefits
  - Develop markets
- \$3.125 billion over 5 years (about 40% as large as EQIP)
- Where can I find the opportunities? <u>Project Dashboard</u>

### Primary Practices (relevant to KS)

- Cover crops
- Low-till or no-till
- Nutrient management
- Enhanced efficiency fertilizers
- Manure management
- Feed management to reduce enteric emissions
- Buffers, wetland and grassland management, and tree planting on working lands
- Climate-smart pasture practices, such as prescribed grazing or legume interseeding
- Soil amendments, like biochar

### Example 1

National Fish and Wildlife Foundation (for Farmers for Soil Health)

Link to Project Enrollment Opportunities: Home - Farmers for Soil Health

Short Summary: The project expands markets for climate-smart corn and Soybeans in the Midwest, Great Lakes, and Chesapeake Bay (IL, IN, IA, KS, KY, MIN, MI, MO, NE, OH, SD, TN, ND, NC, MD, DE, NY, WI, PA and VA) and supports farmer implementation and monitoring of climate-smart practices that reduce greenhouse-gas emissions or sequester carbon.

Full Description: Farmers for Soil Health Climate-Smart Commodities Partnership

This project proposes to accelerate long-term cover crop adoption by creating a platform to incentivize farmers. The platform will quantify, verify, and facilitate the sale of ecosystem benefits, creating a marketplace to generate demand for climate-smart commodities. This project plans to support the implementation of more than 1 million acres of crop crops across 20 states. It also plans to enable corn and Soybeansbean commodity groups to achieve greenhouse gas emission reduction goals while supporting their farmer members and advancing more productive and sustainable practices, using remote sensing, satellite imagery and other data science techniques while "ground-trutting" with a statistically significant set of soil samples from participating fields and a marketplace interface powered by an integrated monitoring, reporting and verification platform. The project includes a 20 percent reserve for underserved producers and a survey plan to assist with recruitment.

Lead Partner: National Fish & Wildlife Foundation
Other Major Partners: Farmers for Soil Health (National Corn Growers Association, the United Soybeansbean Board, and the National Pork Board\*\*), National Center for Appropriate
Technology, 'National Association of Conservation Districts\*, Soil Health Institute\*, University of Missouri\*, 'The Sustainability Consortium\*, Data Transmission Network\*, MBSH Consulting\*
Primary States Expected: IL, IN, IA, IS, KY, MN, MI, MO, NE, OH, SD, TN, ND, NC, MD, DE, NY, WI, PA, VA
Major Commodities: Corn, Soybeans
Approximate Funding Ceiling: \$95,000,000

Approved Federal Funding: \$95,000,000 Non-Federal Match: \$2,877,195

Monitoring Highlights:
DTN plans to use remote sensing, satellite imagery and other data science techniques to passively capture and assess much of the sustainability data needed (GHG emissions reduction practices), thereby minimizing the effort/cost that farmers would otherwise incur. Satellite imagery is planned to be "ground-truthed" with a statistically significant set of soil samples from participating fields.

Marketing Highlights:

A marketplace interface powered by an integrated monitoring, reporting and verification platform is planned to market climate-smart agricultural commodities to interested parties (i.e., biofuel, food, animal feed, package goods companies etc.). This program plans to enable each commodity group to achieve their industry-wide goals on GHG emission reductions while also supporting their farmer members in advancing more productive and sustainable practices.

Equity Highinghis.
The project plans to reserve (until the third and final enrollment period) up to 20% of the total financial assistance to go directly to underserved and small producers. Using DTN's precision digital marketing, this project will prioritize communication to the 30,650 underserved and small farmers. FSH will adjust communication frequency to ensure participation equity. This data resource may also be used by partner groups, such as NCAT-ATTRA and local conservation staff, to combine with their own knowledge and acquaintance with under-served and small farmers who are interested in soil health and sustainability practices

Avaliable Practices: 340 Cover Crops

### Example 2

Short Summary: Expands markets for climate-smart sorghum in CO, KS, NE, NM, OK, TX and Tribal areas and supports farmer implementation and monitoring of climate-smart practices.

This project will implement climate-smart production practices across hundreds of thousands of acres of sorphum working lands, with the goal of reducing hundreds of millions of pounds of carbon emissions and downlooping markets for sorphum as a climate-smart commodity. The project plans to have all enrolled producers document their practices and related acreage in an established and projecting projecting. a platform currently used by Neells and Duronic to take and mornic criminel-smart practices implemented by other commodity fames in select and instead areas of their supply chairs. Furthermore, CHE benefits beyond the famingate plan to be quartified using the Cerebrouse Clases. Regulated Emissions, and Emery Use in University, and EST and Same State University in the Same Same State University in the Same State University in the Same Sta

Lead Partner National Sorghum Producers Association\*\*
Other Major Partners KS Black Farmers Assoc. Periori Tible of Indians of OK, KS AgriWomen; Women Managing the Farm; CO, KS, NM, OK & TX Sorghum Assoc; United Sorghum Checkoff
Parial View AMAP, CO State, TX Teory, TX AMAP, KS State\* and OK State Univ. NM & KS Depts of Agriculture: Field to Market, RIPE. Trust in Food\*\* Nat. Cotton Council. Amer. Coalst. R
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Strategies\*
Primary States Expected: CO, KS, NM, OK, TX, Tribal Major Commodities: Sorghum Approximate Funding Celling: \$65,000,000

Approved Federal Funding: \$64,999,998 Non-Federal Match:

Monitoriny Highlights:
The project plans to have all enrolled producers document their practices and related acreage in an established and proprietary EcoPractices platform, a platform currently used by Nestle and Dannors to track and monitor climate-smart practices implemented by other commodity farmers in select and limited areas of their supply chains. Furthermore, GHG benefits beyond the farmgate plans to be quantified using the Generolinose Gasses, Regulated Remissors, and Energy Use in Technologies (GREET) models in addition to farm-their monitoring of practices using the EcoPractices using the EcoPractices size of the supply the international plans of the supply desired plans of the sup

Equity Hightlights:
The project plans for a minimum percentage of this project's budgeted funds and technical assistance for small and historically underserved sorghum producers/land outreach to Black, woman, and Native farmers specifically.

### Example 3

#### South Dakota State University

Link to Project Enrollment Opportunities: https://www.sdstate.edu/climate-smart

Short Summary: Expands markets for climate-smart beef & bison in CO. GA. IA. KS. MN. MO. MT. NE. NC. ND. SC. SD. WY, tribes & supports farmers & ranchers with implementation & monitoring of climate-smart practices.

Full Description:
The Grass is Greener on the Other Side: Developing Climate-Smart Beef and Bison Commodities

This project will create market opportunities for beef and bison producers who utilize climate-smart agriculture grazing and land management practices. The project will guide and educate producers on climate-smart practices most suited for their operations, manage large-scale climate-smart data that will be used by producers to improve decision-making, and directly impact market demand for climate-smart beefbison commodity markets. The project will use COMET for calculated GRIS benefits. SmartScore at will be used to develop software & warehouse to store data. Yardstick will also be used to measure soil profile organic carbon & bulk density. C-Lock will measure and monitor greenhouse gas emissions from the beef and bison. The project will market climate smart beef & bison meat with a certification of how the livestock were grown and fed. The animals will be tracked from birth through finish. 30.7% of total direct funds in this project will go to historically underserved producers.

Lead Partner: South Dakota State University
Other Major Partners: South Dakota State extension\*, SDSU Center for Excellence for Bison Studies\*, National Bison Association\*,\*\*, Agspire\*, Tanka fund\*, Buffalo Ridge Cattle Company\*,\*\*, Cold Creek Buffalo Company\*,\*\*, Milliborn Seeds\*,\*\*, SmartScore, ai\*,\*\*, Yard Stick\*, Texas A & M\*, C-Lock\*
Primary States Expected: CO, GA, IA, KS, MN, MO, MT, NE, NC, ND, SC, SD, WY, Tribal Lands
Major Commodities: Beef, Bison
Approximate Funding Ceiling: \$80,000,000

Approved Federal Funding: \$80,000,000 Non-Federal Match: \$81,329,688

Monitoring Highlights:
The project will use COMET for calculating GHG benefits. SmartScore at will be used to develop software & warehouse to store data. Yardstick will also be used to measure soil profile organic carbon & bulk density. C-Lock will measure and monitor greenhouse gas emissions from the beef and bison.

Marketing Highlights:
The project will market climate smart beef & bison meat with a certification of how the livestock were grown and fed. The animals will be tracked from birth through finish.

Equity Highlights: 30% of total direct funds in this project will go to historically underserved producers.

Available Practices: 327 Conservation Cover, 338 Prescribed Burning, 340 Cover Crops, 381 Silvopasture, 390 Riparian Herbaceous Cover, 512 Pasture and Hay Planting, 528 Prescribed Grazing, 550 Range Planting, 645 Upland Wildlife Habitat Management

# Looking forward

### Title 2 Farm Benefits

- Do farmers benefit from title 2 payments? Yes
- Do farmers benefit more from title 1 payments? Yes
- Old supply management objectives of CRP don't make sense
- Instead, achieve environmental benefits with minimal production losses
- Important for Farm Bill coalition and preventing future regulation

## Will IRA funds get moved to Farm Bill?

- Supporters: Increase Farm Bill baseline
- Opposition: Less control of how it gets spent and want it targeted to climate change initiatives

#### Conclusion

- General signup CRP is becoming a minor portion
- Next 5-10 years will see a large increase in working lands payments
- Farmers will have choices between multiple sources of payments, even for the same practice