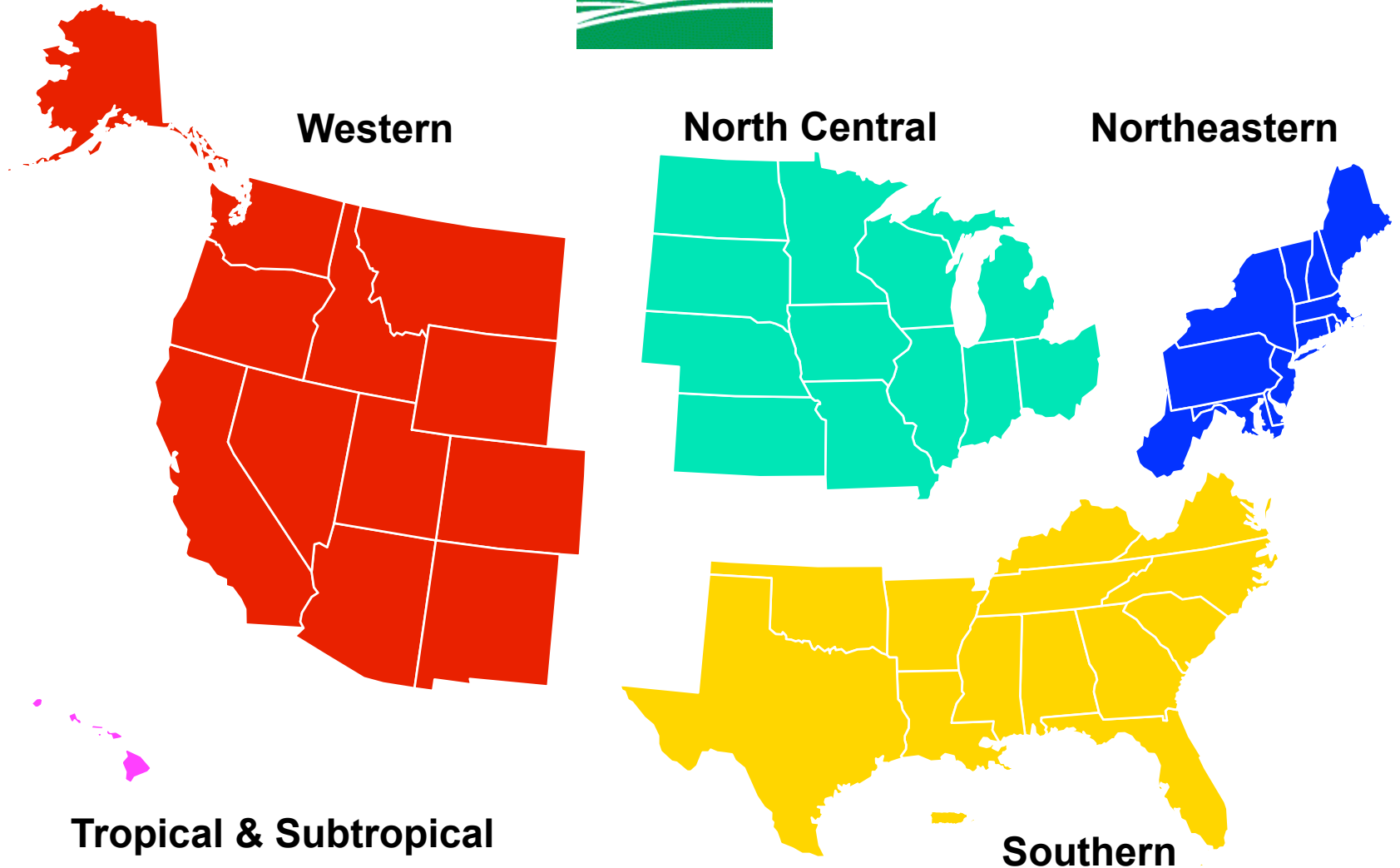




# The North Central Regional Aquaculture Center (NCRAC)

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# Regional Aquaculture Centers





# Mission of the RACs

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To support aquaculture research, development, demonstration, and extension education to enhance viable and profitable U.S. aquaculture which will benefit consumers, producers, service industries, and the American economy.



# Key Features of the Centers

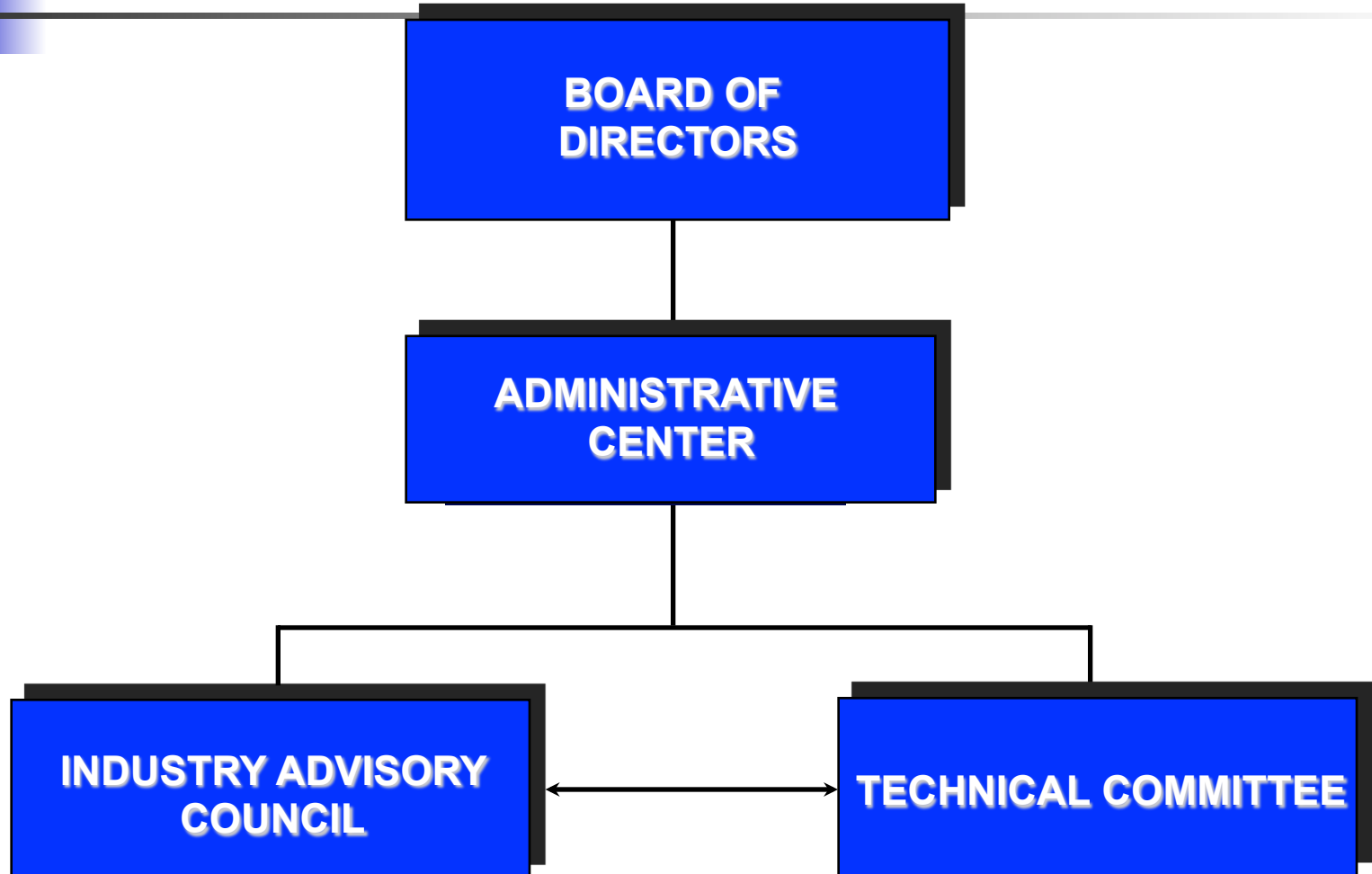
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- Projects responsive to industry needs and designed to impact commercial development
- Programs organized to take advantage of the best aquaculture science, education skills, and facilities to achieve region-wide cooperation
- Projects are peer-reviewed for technical and industrial merit

# North Central Region



# NCRAC Organizational Structure





# NCRAC Administration – MSU/ ISU

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- 1988-90
  - Director - Cal McNabb
  - Assistant Director – Ted Batterson
  - Associate Director – Bob Summerfelt
- 1990-91
  - Director - Cal McNabb
  - Assistant Director – Ted Batterson
  - Associate Director – Joe Morris



# NCRAC Administration

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- 1991-2011
  - Director – Ted Batterson
    - Admin – Liz Bartels
  - Associate Director – Joe Morris
    - Admin – Carol Elsberry (retired 2010)
    - Extension program specialist – Rich Clayton (resigned 2010, now with USDA-APHIS)





# 2012 – NCRAC Changes

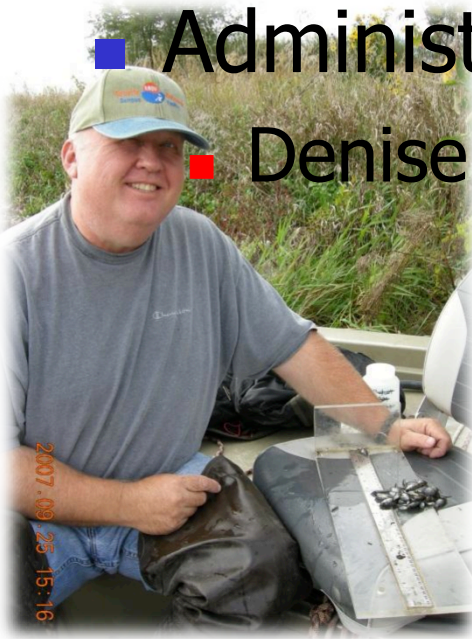
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- MSU Retirements
  - Ted - December 2011
  - Liz - May 2012



# ISU Administration

- Morris (Director)
- Pattillo – Extension program specialist
- Administrative Specialist
  - Denise Birney





# Project Development

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- Strategic Plan
- Limited number of species/systems
- Project Review Committees (PRCs) select Work Groups
- Project outlines developed by Work Groups, peer reviewed, PRCs make recommendations, and Work Groups respond/rebutt
- Board decision
- USDA/NIFA approval
- Projects initiated



# Species/Areas

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- Baitfish
- Effluents
- Extension
- Hybrid Striped Bass
- Largemouth Bass
- Marketing
- Salmonids
- Sunfish
- Tilapia
- Walleye
- Yellow Perch



#### Aquaculture Links

- NCR Aquaculture Roadmap
- Joint Subcommittee on Aquaculture
- USDA Aquaculture
- North Central Aquaculture Regional Extension Facilitator
- State importation and transportation requirements for cultured aquatic animals
- The Fish Nutrition LaunchPad
- Aquaculture Drug Update
- NCR Fish List Serve
- MARKET MAKER
- extension  
more minds reach
- Regional Centers
- Center for Tropical and Subtropical Aquaculture
- Northeastern Regional Aquaculture Center
- Southern Regional Aquaculture Center
- Western Regional Aquaculture Center

#### Welcome to the NCRAC Website.

The North Central Regional Aquaculture Center (NCRAC) is one of the five Regional Aquaculture Centers established by Congress that are administered by the U.S. Department of Agriculture's Cooperative State Research, Education, and Extension Service. NCRAC is an administrative unit that serves the twelve states in the North Central Region: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin

- Overview
- Strategic Plan (28 Kb pdf file)
- NCRAC Operations Manual (126 Kb pdf file)
- Policies (41 Kb pdf file)

#### NCRAC News

1. eXtension Virtual Aquaculture Workshop
2. Outreach with Market Maker  
ISU Extension Introduces the Des Moines Area Community College Culinary Program to Market Maker.pdf
3. Now Available: 2010-2011 NCRAC Annual Progress Report
4. Online Fish Health Certificate Program for Producers

#### Regional Drought News

- Disaster Assistance for Missouri Small Aquaculture Businesses
- Disaster Assistance for Kansas Small Aquaculture Businesses
- Disaster Assistance for Iowa Small Aquaculture Businesses
- Disaster Assistance for Nebraska Small Aquaculture Businesses
- Disaster Assistance for South Dakota Small Aquaculture Businesses

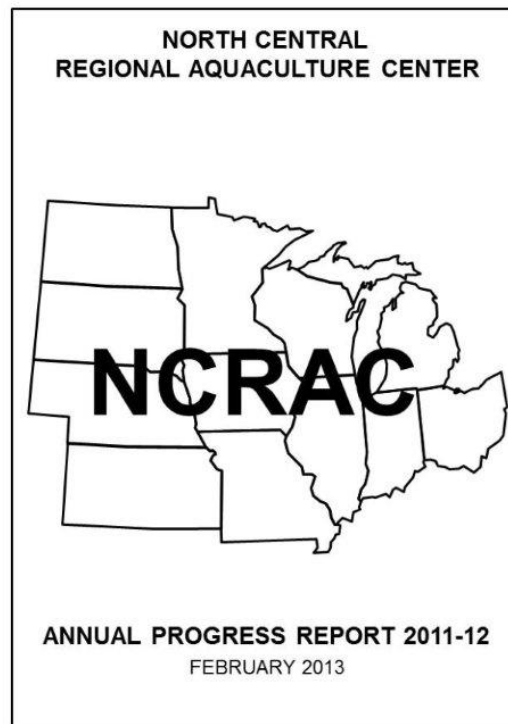
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# 2013 Annual Report

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- Possible change in format





# Internet Presence

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- Updating NCRAC database
  - Increase use of web delivery
- Possible RAC portal



# Concerns & Issues

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- Foreign imports
- Lack of financing and/or markets
- Economically feasible technologies
- Regulatory constraints and an uneven playing field
- Uninformed or misinformed
- Perceptions
- Sustainability
- Growth and profitability

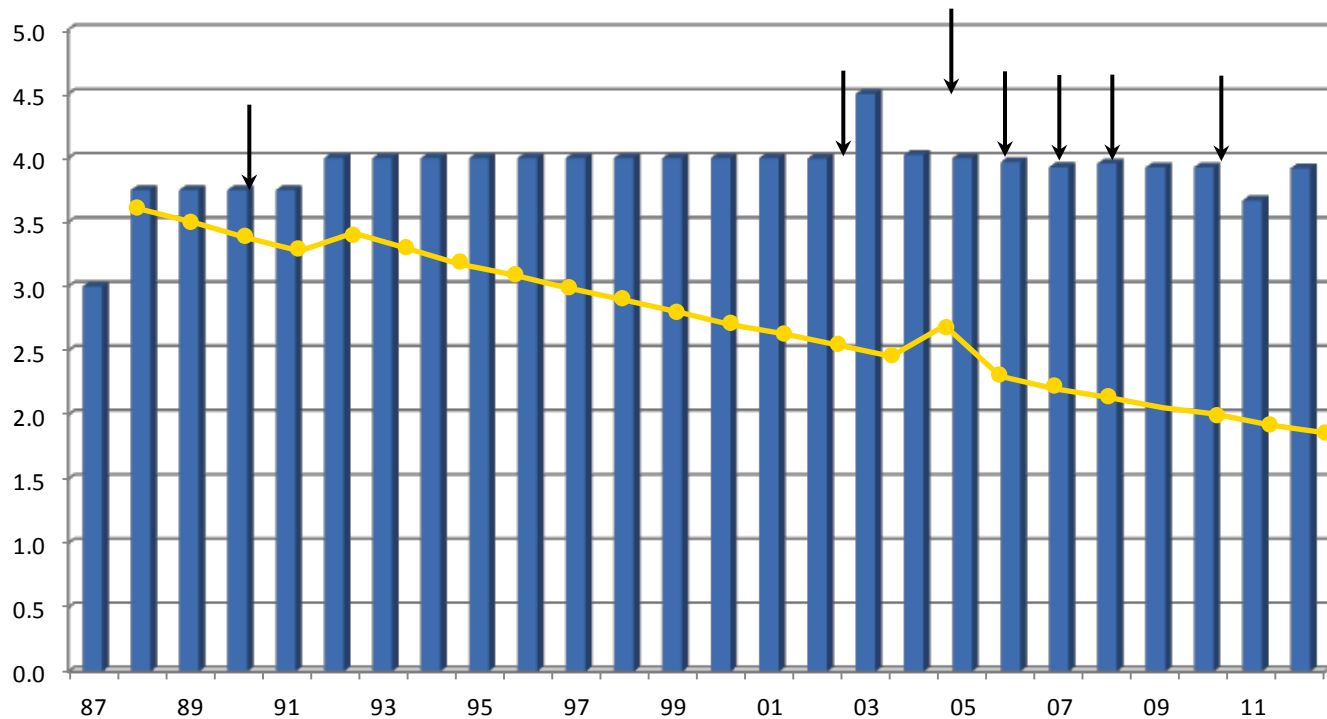


# Regional Center Appropriations

(arrows indicate years in which there were federal rescissions)

**Millions**

—●— "1987" Dollars



Fiscal Year



# NCRAC Projects

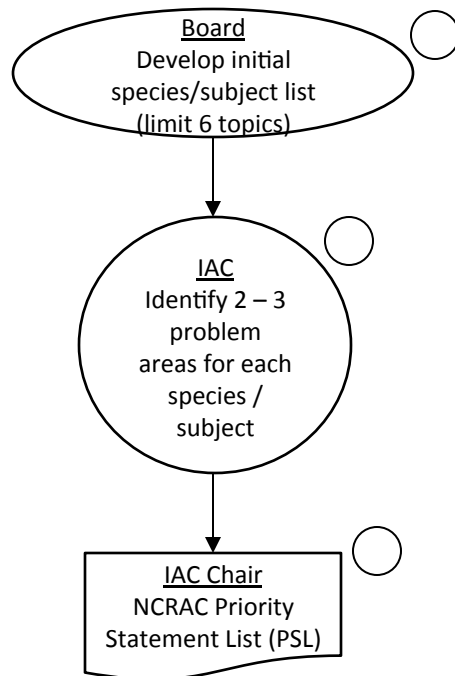
(Total Funds = \$13,108,544)

	No. of Projects		% of Total Funds
Aquaculture Drugs	11	\$1,017,858	7.76%
Baitfish	2	\$261,973	2.00%
Crayfish	1	\$49,677	0.38%
Economics/Marketing	6	\$491,469	3.75%
Extension	18 [51]	\$3,743,903	28.56%
Hybrid Striped Bass	7	\$976,960	7.45%
Largemouth Bass	1	\$170,000	1.30%
Nat'l INAD/NADA Coordinator	2	\$144,241	1.10%
Nutrition/Diets	5	\$559,400	4.27%
Other	4	\$752,495	5.74%
Salmonids	4	\$637,742	4.87%
Sunfish	5	\$853,788	6.51%
Tilapia	2	\$268,791	2.05%
Viral Hemorrhagic Septicemia (VHS)	1	\$197,960	1.51%
Walleye	7	\$927,627	7.08%
Wastes/Effluents	3	\$448,300	3.42%
White Papers	2	\$22,494	0.17%
Yellow Perch	9	\$1,583,866	12.08%



# Project Selection Process

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## Selected Species/Subjects

- Aquaculture Drugs
- Baitfish
- Aquaculture Extension/Marketing
- Largemouth Bass
- Sunfish, and
- Yellow Perch

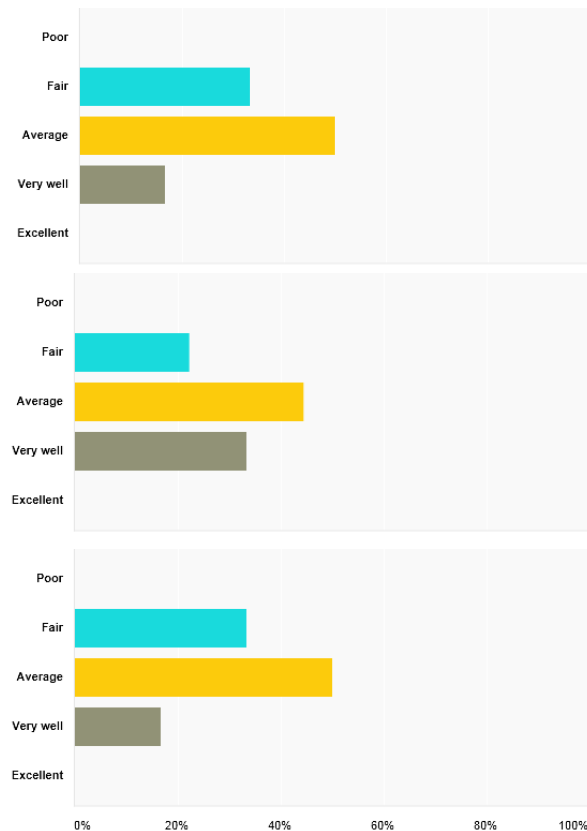
# NCRAC Survey Findings

## ■ Role of extension in research proposals

■ IAC

■ TC/E

■ TC/R



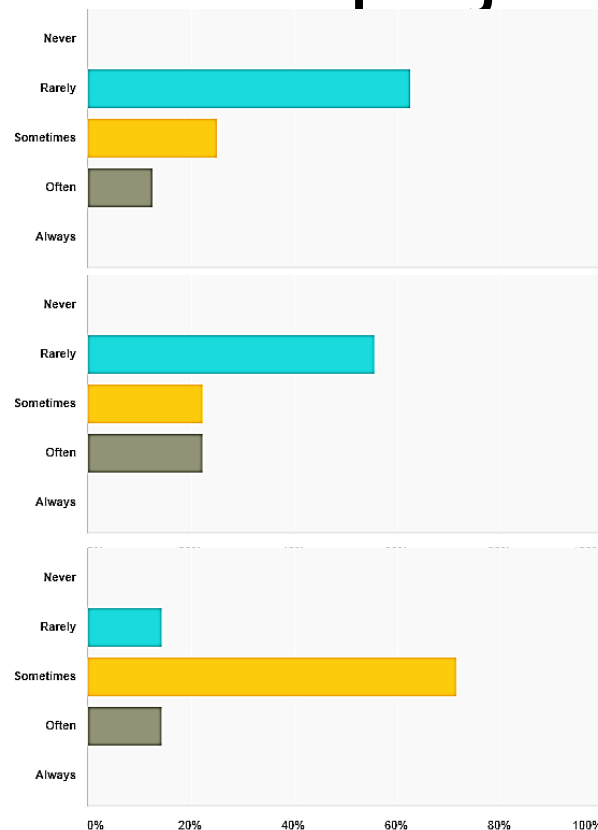
# NCRAC Survey Findings

- Inform end-users of project findings

- IAC

- TC/E

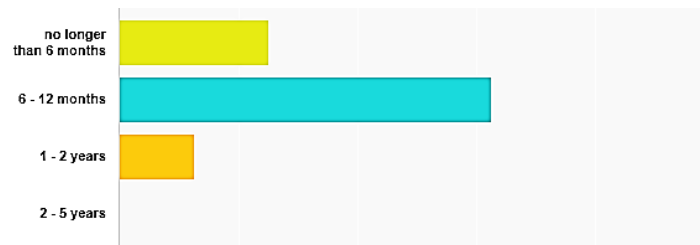
- TC/R



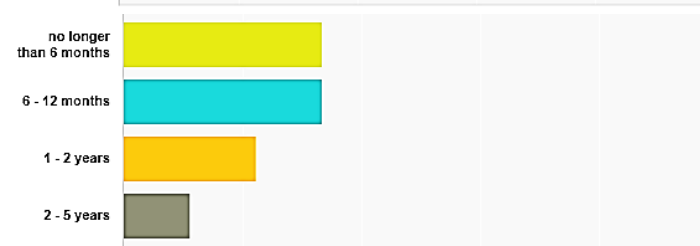
# NCRAC Survey Findings

## ■ Completion of extension objectives

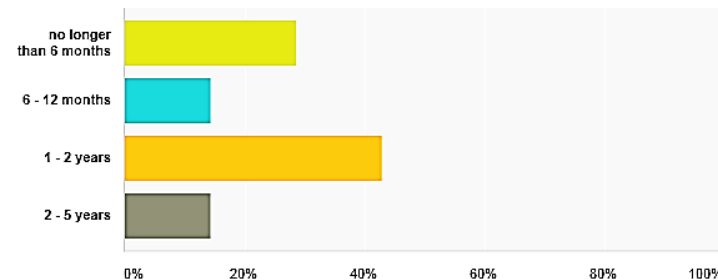
### ■ IAC



### ■ TC/E



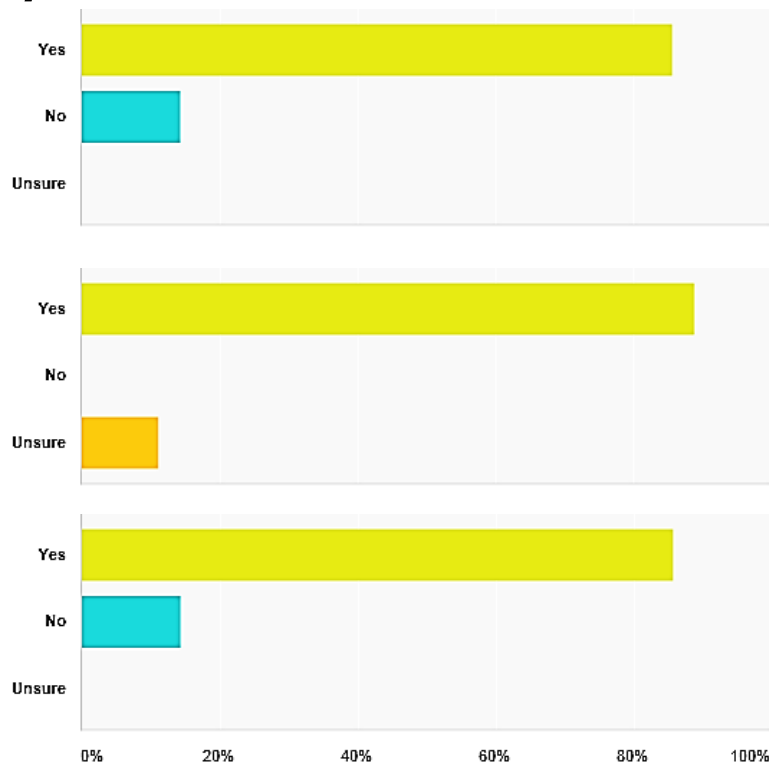
### ■ TC/R



# Select NCRAC Survey Findings

## ■ Field trials/Yield verification

- IAC
- TC/E
- TC/R





# Working Together

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- Programs are a team effort
  - Maintain dialogue among workgroup members including extension liaison and industry representatives
  - Preparation of reports including impact statements
- Partnerships work!

