



MISSISSIPPI STATE
UNIVERSITY™

**COASTAL RESEARCH &
EXTENSION CENTER**

**PRODUCER ADVISORY
COUNCIL**

Commodity Session Notes

January 25, 2024

thank you!

to our Partners



SOUTHERN AGCREDIT

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MISSISSIPPI STATE
UNIVERSITY™

**COASTAL RESEARCH &
EXTENSION CENTER**

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Biloxi, MS 39532
P. 228-388-4710 * F. 228-388-1375
www.coastal.msstate.edu

Dear Community Partner,

The Mission of the MSU Coastal Research & Extension Center is to conduct research and education programs aimed at developing a better understanding and use of renewable and nonrenewable resources in south Mississippi. To this end, it is important for us to continue to reach out and work with our clients and community partners, finding creative and innovative ways to share our knowledge and ideas.

The following pages contain the report from the 2024 Annual Producer Advisory Council (PAC) Meeting of the Mississippi State University (MSU) Coastal Research and Extension Center (CREC). This meeting allows producers and community leaders like yourself to communicate concerns, identify needs, and express opinions and feedback to allow Mississippi State University to better meet your needs.

We had a total of 172 individuals in attendance, which includes producers and MSU staff and faculty of the Coastal Research & Extension Center and the Coastal Extension Region, with 12 counties represented by our Extension agents. The council was attended by other MSU senior administrators and staff members, representing MSU Extension and MS Agriculture & Forestry Experiment Station (MAFES), which are part of the Division of Agriculture, Forestry & Veterinary Medicine (DAFVM), as well as guests from Southern AgCredit and MS Farm Bureau Federation. Overall, this was a very well represented and attended meeting.

If you were able to attend this year's meeting, we want to thank you for your time and participation and look forward to continuing to work with you throughout the year. Moving forward, we challenge you to spread the word about MSU Extension and MAFES and what we do with our colleagues and fellow producers, and we ask you to encourage them to attend future meetings as well.

If you were unable to participate, we invite you to learn more about what we do at www.coastal.msstate.edu and hope that you will join us next year at our Annual Meeting which will held January 14, 2025. The Coastal Research and Extension Center was established in 1988 and is based in Biloxi, MS. CREC supports Extension programs in the 21 southeastern counties of Mississippi, on the reservation of the Mississippi Band of Choctaw Indians, and at the Crosby Arboretum in Picayune. CREC also administers experiment stations in Harrison, Jackson, Perry, and Pearl River Counties under the Mississippi Agriculture & Forestry Experiment Station system.

Your continued support and participation makes our impact on the communities we serve even stronger.

Sincerely,

James E. Henderson, Ph.D.
Professor and Head
Coastal Research & Extension Center

Tawnya Holliman
Regional Extension Coordinator
Extension Coastal Region

Mississippi State University, United States Department of Agriculture, Counties Cooperating

We are an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.



MISSISSIPPI STATE UNIVERSITY™
COASTAL RESEARCH & EXTENSION CENTER

MISSISSIPPI STATE UNIVERSITY COASTAL RESEARCH AND EXTENSION CENTER

- Serves 21 of 82 Mississippi counties.
- Offers professional services from the MSU Extension Service and Mississippi Agricultural and Forestry Experiment Station in agriculture, natural resources, family and consumer sciences, community resource development, and 4-H.
- Includes approximately 120 employees, including Extension agents and specialists, program associates and assistants, and faculty and staff.

THE MSU COASTAL RESEARCH AND EXTENSION CENTER IS FUNDED BY THE MISSISSIPPI LEGISLATURE.



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MS AGRICULTURAL AND
FORESTRY EXPERIMENT STATION

Extension funding is supplemented by the Mississippi-Alabama Sea Grant Consortium.



Coastal Research & Extension Center
(228) 546-1001
1815 Popp's Ferry Road
Biloxi, MS 39532
coastal.msstate.edu

- ★ Coastal Research & Extension Center
- ◆ Extension Unit: Crosby Arboretum
- MAFES Unit: South MS Branch Experiment Station
- MAFES Unit: Experimental Seafood Processing Lab
- MAFES Subunit: Beaumont Horticultural Unit
- MAFES Subunit: White Sand Beef Unit
- MAFES Subunit: McNeill Unit
- County Extension Office
- MS Band of Choctaw Indians Extension Office





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Apiculture

Dr. Jeff Harris, MSU Chair

15 Attendees

A welcome was given to all in attendance by the moderator, MS State Apiculture chair/ specialist Dr. Jeff Harris. During the welcome, a quick rundown of the goals and expectations of the group was given. Attendees were asked to sign in. Dialogue was initiated between group members and Dr. Harris on issues viewed as of high importance. Dr. Harris spoke to the group concerning what was currently happening and what has recently been released that is relevant to apiculture/ beekeeping.

Dr. Harris spoke on the development of the Master Beekeeping Program which will be similar in style to the Master Gardener program, only dealing with beekeeping obviously. Those in attendance were excited about this and felt that this would be a great way to get people introduced to beekeeping and a great resource for those that don't necessarily have bee clubs or groups nearby that they can attend educational meetings.

Interest from the group was then turned to information regarding nuisance beehives and availability of people/ individuals that did "cut-outs". Discussion was lead to a update of a publication (P3690) and the options homeowners have regarding hives in structures and what can be done by the homeowner themselves. Sometimes this can be tricky as structural issues will need to be resolved after the cutout to make sure that the structure or facility is repaired correctly. Many homeowners feel that this can be too costly yet for the safety of the structure and also to minimize the possibility of the hive returning, the repair must be done correctly.

Discussion was had by those in attendance regarding the upcoming bio-control of Chinese Tallow tree in Mississippi and other areas. Attendees expressed concern about what would fill the void of the invasive and what can be done proactively to fill this void. Dr. Harris explained that from what he has gathered it will be a gradual reduction in the Chinese Tallow numbers and not a quick, massive void to fill and many native plants will be able to slowly fill that void even as fast growing as Chinese Tallow can be.

Discussion was then turned to the use of essential oils, possibly specifically peppermint oil, for varroa mite control. This was something that Dr. Blair Sampson at South MS Agricultural Research Station said that they could possibly take a lead on as they have oils and hives already at their station but would be willing to look further into it. Dr. Harris expressed interest into this possibility as well.

Coastal & Marine Issues

Dr. Marcus Drymon and Dr. Mark Woodrey, MSU Chairs
40 Attendees

Dr. Sparks gave an introduction of the Coastal and Marine Extension Program
Program leads gave short introductions about their programs:

Dr. Mark Woodrey: Coastal Avian Ecology lab; monitoring and restoration activities, NOAA Firebird Project, role of fire in managing coastal habitats

Dr. Jonathan Pitchford: coastal upland restoration and ecology, landscape scale restoration efforts, using and evaluating different tools such as conservation grazing

Dr. Holley Muraco: Coastal ONE Health program, connectivity of human health to the environment

Dr. Sam Chang: Seafood lab, help seafood industry in northern Gulf states, fish and seafood dehydration process, recycle fish food waste, make into plastic material

Dr. Marcus Drymon: fisheries ecology, multiple large fish species, interaction with the environment and people

Dr. Ben Posadas: economic values associated with resources (plants, fisheries, etc), generate information, validate it and share it

Qiyamah Williams: PLACE-SLR, coastal flood risk, storm flooding, expanding to climate effects across northern Gulf, education program, science translation to deliver information to end users

Poster session held for participants to view individual projects and speak to project leads

Key issues identified by producers:

The need for integration of beef production in conservation grazing
More collaboration with landscape architects for coastal restoration projects

Freshwater runoff and the Bonnet-Carre Spillway affecting fisheries

Coastal upland habitat management

Quantifying demand for native wetland plants

Horticulture

Dr. Patricia Knight, MSU Chair

36 Attendees

ed by:

- Dr. Patricia Knight, Director of Coastal Horticulture Research, Ornamental Horticulture, South MS Branch Experiment Station
- Dr. Eric Stafne, Fruits and Nuts, South MS Branch Experiment Station
- Dr. Christine Coker, Vegetable and Urban Horticulture, Beaumont Horticulture Unit
- Dr. Jim DelPrince, Cut Flowers and Floral Design, Coastal Research & Extension Center

Dr. Knight opened with introductions and an update from the Mississippi Nursery and Landscape Association that they would like to see old positions filled, and then she allowed everyone in the room to introduce themselves. Questions and concerns were then taken from the room and included:

- What are we doing to increase commercial growers of fruits, vegetables, flowers? Do we need more money and/or resources? How do we involve more young people? What more can we do other than workshops and field days to get more people involved and excited?
- I'm struggling to know where I need to reach out for more resources. Are there any free home gardening resources?
Answer: There are many on a county extension level
- We need more education on interior plants and how to grow them both on a commercial and homeowner level. Can we get more extension publications and bulletins? There's not a lot of specific information for our climate, especially.
- What and when should we apply pesticides, particularly in vineyards? What chemicals work best? What is the best way to control grass under vines?
Answer: Southern Region Small Fruit Consortium (SRSFC) (Louisiana to Virginia) meets each year to develop/revise IPM guides on grapes, muscadines, blueberries, blackberries, raspberries, and strawberries. They contain information on common insects, weeds, wildlife, diseases, and timing of when to spray. There are also organic publication options. You can download these from their website (smallfruits.org). Grower must know what pest they have and then can look through the guide and find it. This is a very helpful resource, but it does require funding to be a part of SRSFC. There are also opportunities for agents to go to SRSFC for agent training and is a great conference to go to.
- Are there any restrictions on applying pesticides near a bayou?
Answer: Some things labeled that you can't apply within a certain distance of water source

- On the commercial side, we are struggling with bigger issues such as late frosts, drought, and/or too much rain. The cost of insurance has gotten very high and seems to be driving people out of the business, so it becomes a real business. There needs to be some cost analysis on these issues, even comparing North vs South MS.
- I recall pawpaw, pineapple guava, and loquat at the Beaumont station. Is anything being done to expand production on these crops?
Answer: The loquats have been there for many years. The pawpaw and pineapple guava were planted as an edible landscape trial. We would really like to expand pawpaw production, as there is a lot of renewed interest in them, and more are showing up in the nursery trade. Louisiana even holds a field day on pawpaws. A lot of research is being done on them at Kentucky State University, and they have many resources online. Postharvest handling of the fruit is difficult, but they hold a lot of potential for desserts, breads, smoothies, ice creams. We would like to try some different cultivars of pineapple guava. The ones we have are beautiful in a landscape, but they are not cold hardy and don't hold fruit. We haven't had much success with the loquats. They fruit over winter, which kills the fruit, but there may be more tolerant cultivars out there.
- Another crop Dr. Stafne is looking at is passion fruit. He collected native species (maypop) from different states and made crosses of those with the tropical species in hopes to make them more cold hardy, because the tropical ones don't survive here. We also hope to get them to flower in the spring so they have a long enough season to get fruit. We're not there yet, but we're looking at several hundred crosses.
- How is the wine lab at McNeill?
Answer: There's not one yet, but we are looking at getting one once we find the funding. This would help our production, but it would also be useful for producers to do quality control testing.
- Any work on avocados?
Answer: We haven't had luck growing avocados. Some have been labeled as cold tolerant, these are more so for Florida. We seem to be just a little too far north.
- There is a new MyIPM vegetables publication hot off the press from Dr. Rebecca Melanson (MSU fruits, nuts, and vegetables pathologist) that helps you identify diseases and what you can do about those. There are 6 to 8 vegetables currently in the database.
- Are pH meters worth it?
Answer: Yes, there are many easy-to-use handheld meters. Small pin meters work well for container plants, but a soil test may be more accurate for field testing. Main campus offers a soil testing service that allows you to mail them a sample.

Forestry

Butch Bailey, MSU Chair
34 Attendees

Butch Bailey gave an update on the Forestry Department on Campus and the new employees around the state.

Kasey Anderson with Mississippi Forestry Association gave a brief update with what is going on with MFA. Drought Research and Data is top priority with a partnership with Farm Bureau to assess the damage for the MS Landowners.

Topics Discussed during the session include:

Pellet Industry – markets for thinning, pulpwood, and small diameter wood.

Logging for small areas of timber – Low prices and difficult to find loggers for these areas.

County CFA – working with MFA to support local County Forestry Assoc. Inactive CFA combining counties to meet the needs of the members.

Hardwood and Pines Dying – Drought Damage will show for the next 3-4 years

Benefits of Prescribed Burning and the protection for landowners

Erosion Control in Forestry and Forest Land

Livestock, Horses & Small Ruminants

Dr. Leyla Rios DeAlvarez and Brad Jones, MSU Chair

29 Attendees

Mr. Alex Shook introduced the MSU Chair, Dr. Barbara Reis, who gave an update on research at the White Sand beef unit. She also discussed upcoming research projects at the station and passed out a survey for producers. Next, Dr. Reis introduced MSU small ruminant specialist, Dr. Leyla Rios. Dr. Rios gave an overview of small ruminant programs offered in 2023 and shared information about upcoming programs. Dr. Rios presented a summary of the Kiko buck test that took place during the summer of 2023. Dr. Rios then introduced Ms. Libby Durst and said that Libby was working with the SARE program. Next, Dr. Reis introduced Dr. Brett Rushing. Dr. Rushing gave an update on research happening at the Coastal Plains Research Station in Newton. Dr. Rushing introduced Dr. Johnathan Pitchford who is working on a new conservation grazing program. Dr. Reis then introduced Dr. Eric Sparks who spoke further about the conservation grazing program and passed out a survey. Dr. Reis then introduced Dr. Christy Bratcher as the Department Head for ADS. Dr. Bratcher said that they were working diligently to fill open positions within the Department and that they currently had 528 students enrolled in the college.

A producer asked Dr. Bratcher what was being done to support small dairy producers. Dr. Bratcher responded that they were looking at the possibility of hiring two (2) positions to support dairy producers across the state.

Dr. Reis introduced Dr. Rocky Lemus. Dr. Lemus gave a summary of his recent forage programs across the state. He spoke about freeze damage and ryegrass also current hay prices and quality. Dr. Lemus shared information about the upcoming small ruminant conference on the Mississippi State Campus on February 24, 2024. He also shared information about an upcoming forage grazing conference on April 11 and 12, 2024, at the Central Mississippi Research and Extension Center in Raymond, Mississippi. Next, he spoke about his work with introducing clover into grazing systems and that he is working with new forage species as a possible forage option. Next Dr. Lemus spoke about liquid lime and fertilizer costs versus traditional sources.

Next, producers were asked to compile a list of priority topics affecting their operations. One producer stated that there was a need for more information on where to buy hay. Dr. Lemus shared that he keeps an updated directory of hay producers across the state, and that his directory is available to anyone. Next a small ruminant producer said there was a need for more processing facilities for sheep and goats. Dr. Rios shared Dr. Burnett was working with a mobile slaughter facility. Dr. Lemus shared that MDAC had purchased a mobile slaughter unit and suggested that producers check with them. A beef cattle producer stated that there was a shortage of large animal veterinarians and wanted to know if the University was exploring the option to offer certifications to individuals similar to a nurse practitioner. Dr. Keith Coble responded that this was a national problem and that options such as loan repayment incentives for rural vets were being considered and also that Mississippi State currently offers 4-year degrees for veterinary medicine techs. Another cattle producer stated that the previously available over-the-counter antibodies being taken away was creating a challenge for producers.

Producers selected Mr. Bobby Jones to serve as the producer chair.

Poultry

Dr. Jessica Wells, MSU Chair

4 Attendees

Jonathan Moon and Jessica Drewery gave an update from the MSU Poultry Science Department. They updated the group on current research projects and staff.

The group discussed the need for heightened biosecurity practices and educational efforts of commercial and backyard producers alike with AI and LT breakouts across the state.

Best litter management practices were discussed, and the group expressed a need for more research and education on this for both commercial and backyard producers.

The need for educational resources on backyard breed selection and diseases was also brought forth. Jonathan Moon commented that he had some experience with this type programming in the past and was open to setting something up like this.

The group also ask some questions regarding the capital investment needed to startup and operate a commercial poultry farm and the requirements associated with that type of venture. The group felt that updated publications or information sheets on the capital investments to start a commercial operation would be helpful.

Backyard producers was also a major topic of conversation. General information regarding health and nutrition was discussed. The group would like to see some nutritional and ration balancing information that would reduce cost for producers.



The Crosby Arboretum

With increasing value being placed on our natural heritage, The Crosby Arboretum is the premier native plant conservatory in the Southeast. The Arboretum was established as a living memorial to L.O. Crosby, Jr. (1907-1978) and has expanded to become a resource for education in the region and the world. Today, it provides for the protection of the region's biological diversity as well as a place for the public's enjoyment of plant species native to the Pearl River Drainage Basin of south-central Mississippi and Louisiana. It allows us to study and learn about plants and plant products so that we may use them to their best advantage and ensure their continuous propagation in the future. Aesthetic, agricultural, scientific, and industrial contributions of native plant species and ecosystems can be examined in a real-life setting at the Arboretum.

The 104-acre Native Plant Center of The Crosby Arboretum serves as the focus of Arboretum activities and development. It includes the Pinecote Pavilion and the Piney Woods Lake for display of native water plants in their natural setting. The Pinecote Pavilion and the many wooden bridges that complement the lake were designed by award-winning architect Fay Jones, of Fayetteville, Arkansas to enhance the artistic and functional aspects of the Arboretum.

The Crosby Arboretum also manages 700 acres in seven associated natural areas. The assemblages of carefully selected and protected lands nurtures over 300 species of indigenous trees, shrubs, wildflowers, and grasses. Rare, threatened, or endangered species of plants and wildlife are present at throughout the Arboretum's preserves. Unusual plants have their place as well. The Arboretum protects and manages several lovely pitcher plant bogs both on site and within the natural areas. Edible, poisonous, and aromatic plants, too, are found at the Arboretum. As the seasons unfold their splendor, the Arboretum provides a clear, unobstructed view of the variety and beauty of our natural resources.

More than attractive features of our landscape, plants are an integral part of the environment we inhabit. Our own survival will be threatened if they do not flourish. Therefore, humankind's best interests can be served by the study of our plant neighbors with which we share this planet.



The Crosby Arboretum

370 Ridge Road * P.O. Box 1639

Picayune, MS 39466

Phone: 601-799-2311

Fax: 601-799-2372

crosbyarboretum.msstate.edu

Open

Wednesday – Sunday

9:00 am – 4:30 pm





Mission: The Coastal Research and Extension Center is Mississippi State University's "southern exposure," linking residents of the coastal region to the university. The center's mission is to conduct research and education programs aimed at developing a better understanding and use of renewable and nonrenewable resources in south Mississippi. Its applied research and educational programs with biological, physical, and social systems focus on enhancing the quality of life of residents of Mississippi and other Gulf states. Our priorities address the specific needs of diverse communities including the health and well-being of the people and responsible stewardship of unique natural resources.

Vision: Coastal Research and Extension Center is the leader in providing responsive solutions addressing social, environmental, and economic integration of Research and Extension.

What we do and where we do it:

<p>Coastal Research and Extension Center 1815 Popp's Ferry Rd Biloxi, MS 39532 Phone: 228-388-4710 Fax: 228-388-1375</p>	<ul style="list-style-type: none"> • Coastal avian ecology • Coastal restoration ecology • Forest management • Marine fisheries ecology • Natural Resources and agricultural economics • Ornamental horticulture • Coastal climate resilience • Vegetable horticulture
<p>South MS Branch Experiment Station Includes Poplarville, White Sands, and McNeill Units 810 Highway 26 West * PO Box 193 Poplarville, MS 39470 Poplarville Phone: 601-795-4525 White Sands Phone: 601-795-4805</p> <p>Beaumont Horticultural Unit 475 Hwy 15 Beaumont, MS 39423 Phone: 601-788-6616 Fax: 601-788-5522</p>	<ul style="list-style-type: none"> • Beef nutrition • Host to USDA ARS Thad Cochran Southern Horticultural Library • Ornamental horticulture • Small Fruits horticulture • Vegetable horticulture
<p>Experimental Seafood Processing Laboratory 3411 Frederic Street Pascagoula, MS 39567 Phone: 228-762-7783</p>	<ul style="list-style-type: none"> • Aquatic processing technology • Food-borne pathogen elimination • Extension of the shelf life of aquatic products • Post-harvest technology • Chemical residue analysis
<p>The Crosby Arboretum 370 Ridge Road * P.O. Box 1639 Picayune, MS 39466</p>	<ul style="list-style-type: none"> • Smart Landscapes • Preserving, protecting, and displaying plants native to the Pearl River Drainage Basin in Mississippi and Louisiana



The Mississippi State University Extension Service provides research-based information, educational programs, and technology transfer focused on issues and needs of the people of Mississippi, enabling them to make informed decisions about their economic, social, and cultural well-being.

The **Coastal Extension Region Office** serves these 21 southeastern Mississippi counties, as well as the Federally Recognized Tribes Extension Program with the Mississippi Band of Choctaw Indians (MBCI).

952 Sullivan Drive * Hattiesburg, MS 39401 * Phone 601-545-6083

Ms. Tawnya Holliman, Coastal Regional Extension Coordinator

County	County Coordinator	Physical Street/Mailing Address	Phone	Fax
Clarke	Kim Hancock, Interim	101 Westwood Ave., PO Box 109 Quitman, MS 39355	601-776-3951	601-776-1023
Covington	Ellen Russell	68 Industrial Park Drive Collins, MS 39428	601-765-8252	601-765-5009
Forrest	Kaitlyn Slade	952 Sullivan Dr. Hattiesburg, MS 39401	601-545-6083	601-545-6173
George	Heath Steede	7128 Highway 198 East, PO Box 738 Lucedale, MS 39452	601-947-4223	601-947-4224
Greene	Heath Steede, Interim	4321 High School Road Leakesville, MS 39451	601-394-2702	601-394-2741
Hancock	Tim Ray, Interim	17304 Hwy 603	228-467-5456	228-466-6225
Harrison	Tim Ray	14281 County Farm Road Gulfport, MS 39503	228-865-4227	228-868-1470
Jackson	Kim Gowdy	4111 Amonett St, Ste E, PO Box 1248 Pascagoula, MS 39568	228-769-3047	228-769-3347
Jasper	Kelby King	37B West 8th Ave., PO Box 506 Bay Springs, MS 39422	601-764-2314	601-764-2035
Jeff Davis	Latonya Ramsey	2304 Pearl Avenue, PO Box 580 Prentiss, MS 39474	601-792-5121	601-792-5123
Jones	Kimberly Hancock	515 North 5th Ave., PO Box 448 Laurel, MS 39441	601-428-5201	601-428-3158
Kemper	Malikah Jones	587 Old Scooba Rd, PO Box 339 DeKalb, MS 39328	601-743-2837	601-743-5581
Lamar	Ross Overstreet	216 Shelby Street Ste B, PO Box 419 Purvis, MS 39475	601-794-3910	601-794-5515
Lauderdale	Katrina McCalphia, Interim	1022 Hwy 19 South Meridian, MS 39301	601-482-9764	601-482-9777
Marion	Amanda Woods	1060 Hwy 13 South Columbia, MS 39429	601-736-8251	601-731-3791
Neshoba	Anna Floyd	12000 Hwy 15 N, Ste 2 Philadelphia, MS 39350	601-656-4011	601-656-5505
Newton	Katrina McCalphia	65 Seventh Street, PO Box 188 Decatur, MS 39327	601-635-7011	601-635-2146
Pearl River	Eddie Smith	204 Julia Street Poplarville, MS 39470	601-403-2280	None
Perry	Brittany Odum	105-B3 Main Street New Augusta, MS 39462	601-964-3668	601-964-8480
Stone	Brad Jones	214 N Critz St, Suite A Wiggins, MS 39577	601-928-5286	601-928-4677
Wayne	Curtis Jones	810-A Chickasawhay St Waynesboro, MS 39367	601-735-2243	601-735-6264
MBCI	Kaiti Ford	133 Ag Center Drive/PO Box 6010	601-656-9679	601-650-1992

Save the Date

January 14, 2025

Coastal Research & Extension Center

Producer Advisory Council

Biloxi, MS

coastal.msstate.edu/advisory

Survey of Coastal Extension Region Clientele

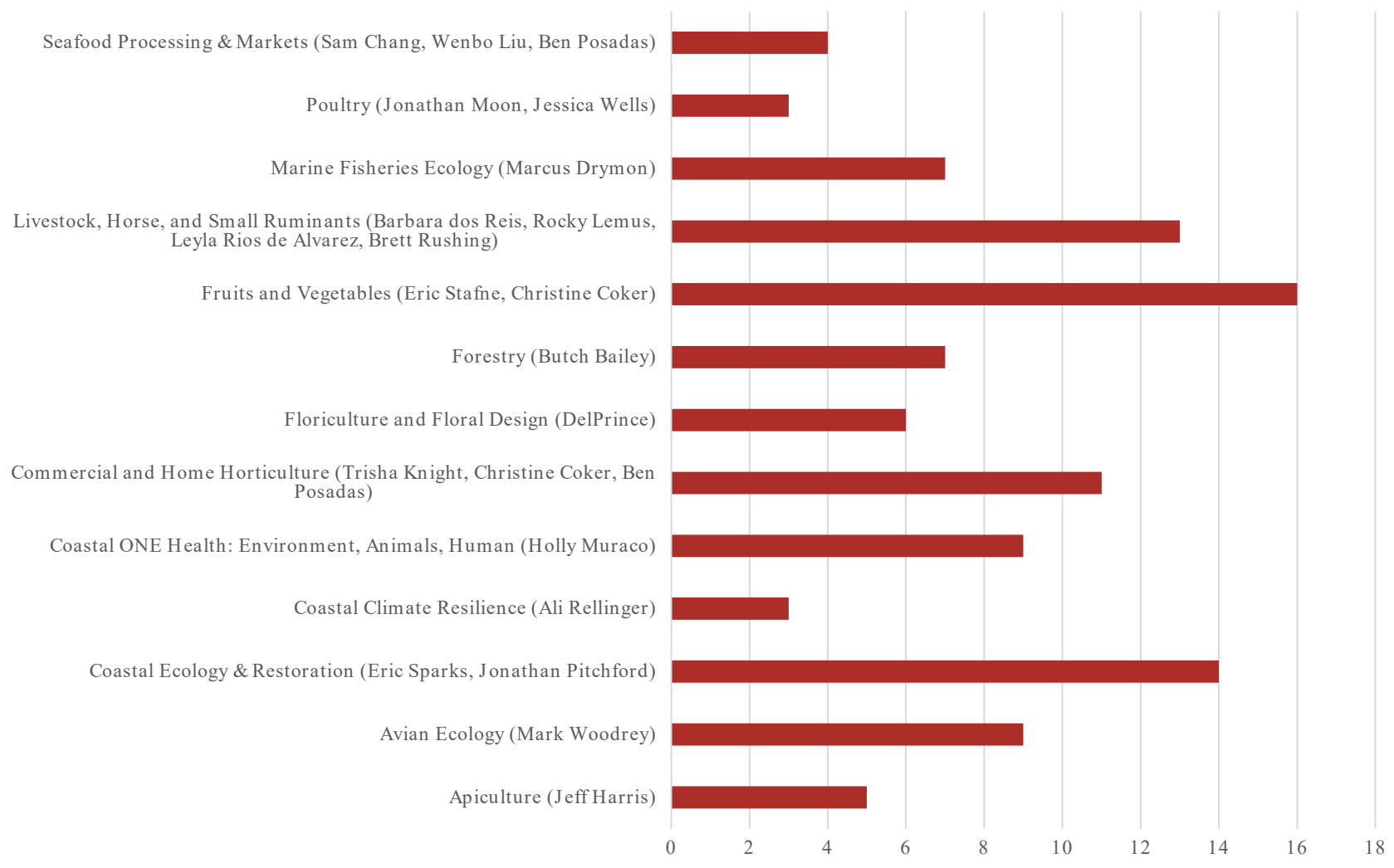
The following are the results of a survey shared via email with clientele of Extension and MAFES in the Coastal Region. The purpose was to capture advice from clientele that were not able to attend the PAC meeting in person and/or those in attendance that could not attend all sessions.

Respondents were asked to indicate the best ways to receive research-based information and what method of information delivery they would like to see more of as it relates of the list of topics. A total of 49 responses were received.

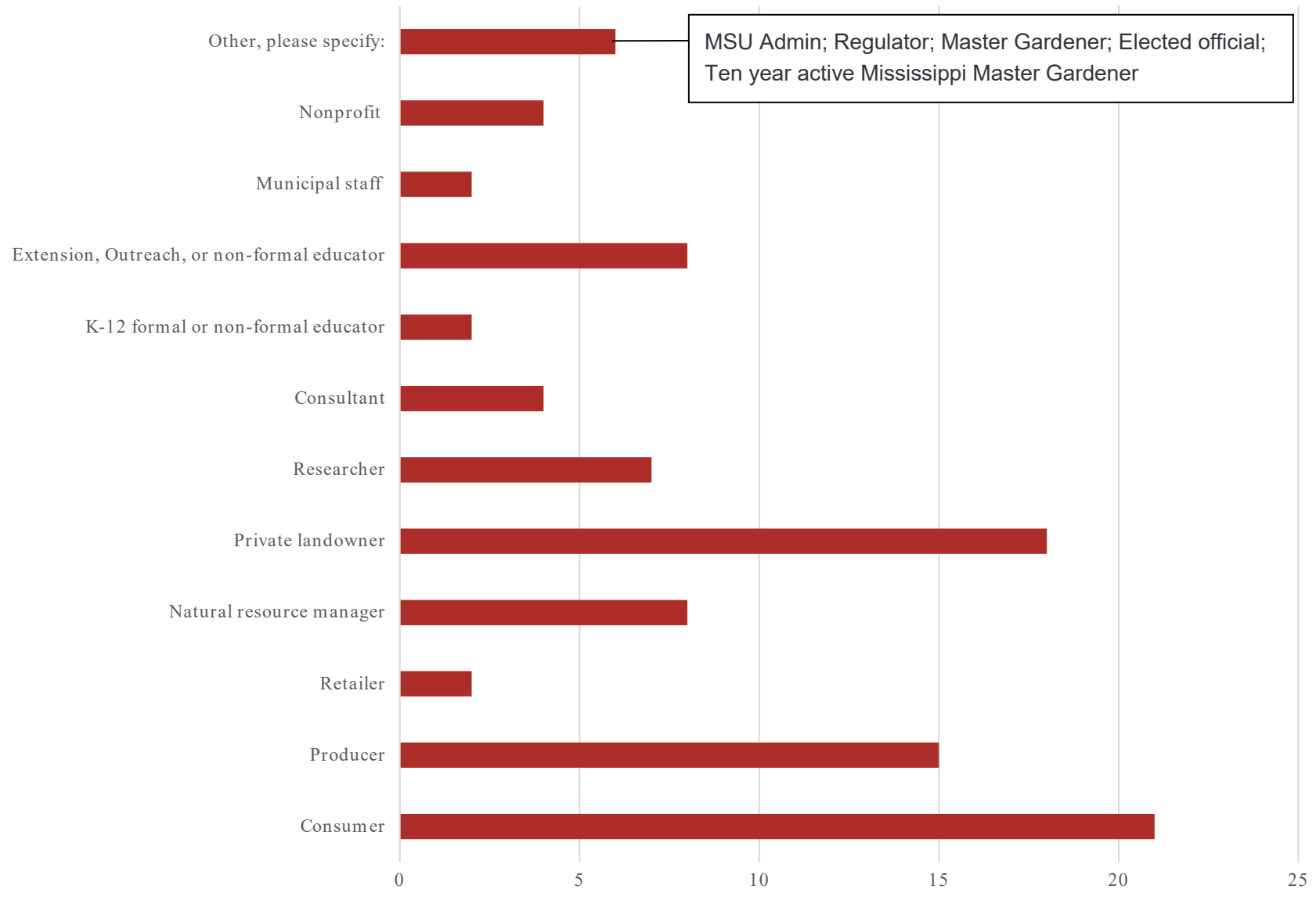
Topics included:

Apiculture	Avian Ecology
Coastal Ecology & Restoration	Coastal Climate Resilience
Coastal ONE Health: Environment, Animals, Human	Commercial and Home Horticulture
Floriculture and Floral Design	Forestry
Fruits and Vegetables	Livestock, Horse, and Small Ruminants
Marine Fisheries Ecology	Poultry
Seafood Processing & Markets	

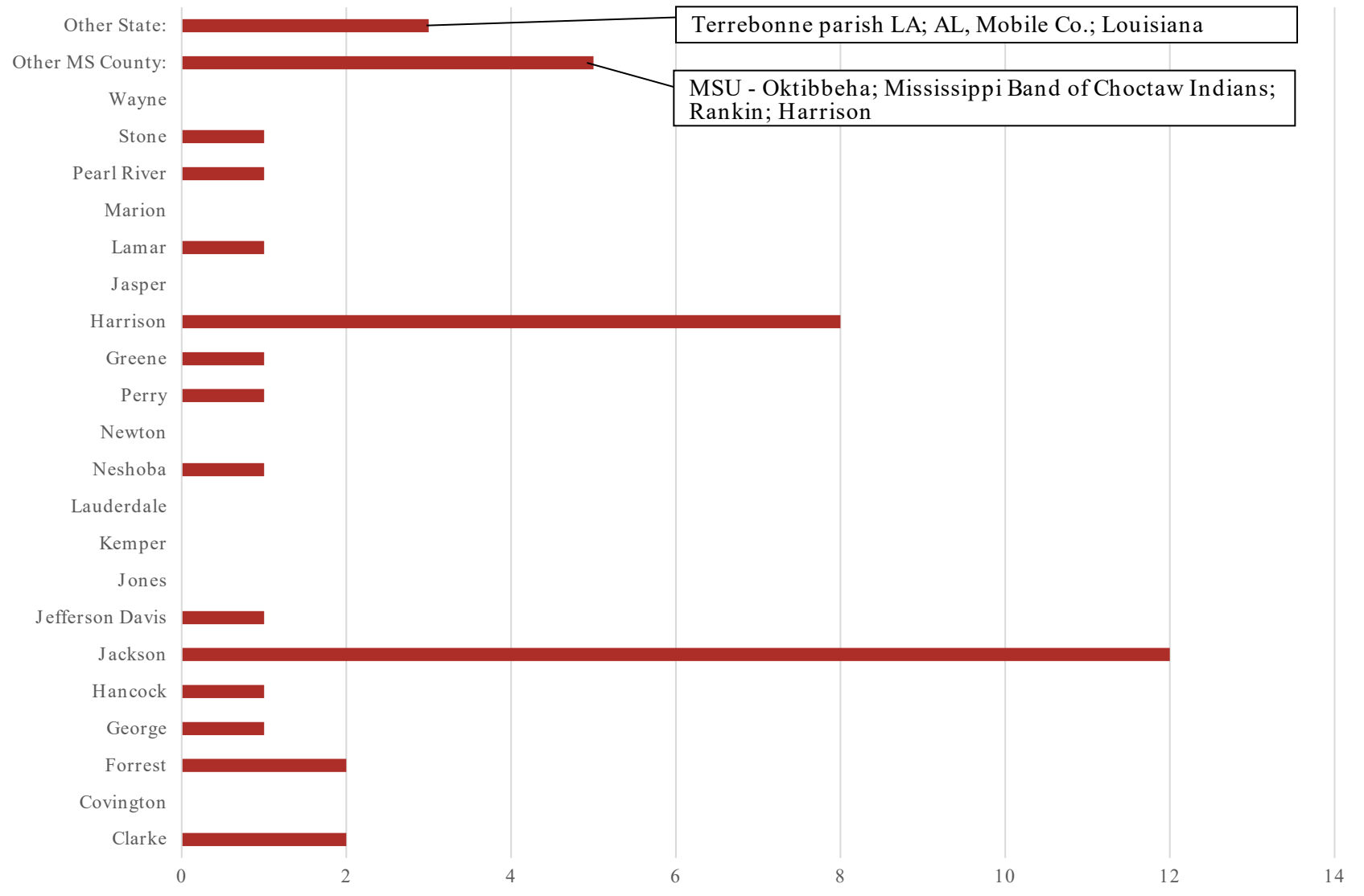
From the list of topics below, please select all topics you are willing to provide advice for possible future Research and Extension programs (MSU Extension Specialists and MAFES Researchers working on these subjects in Southeast MS are also listed):



I am a: check all that apply

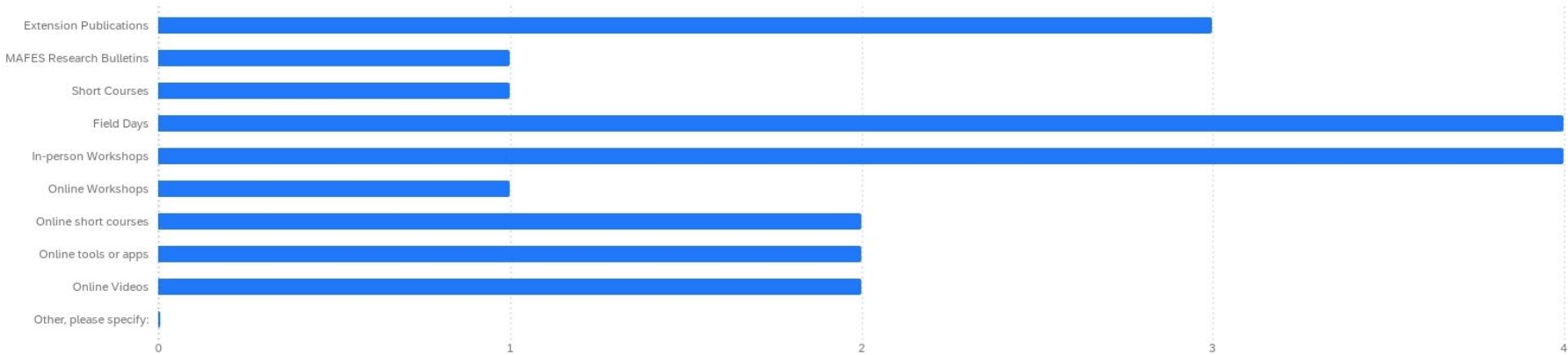


What best describes your residence? One of the following Mississippi counties or other?



Apiculture

What do you think are the most efficient ways for research-based information to be delivered for best use? 4 ⓘ



4. As it relates to Apiculture, what research-based information delivery method do you want to see more offered? 4 ⓘ

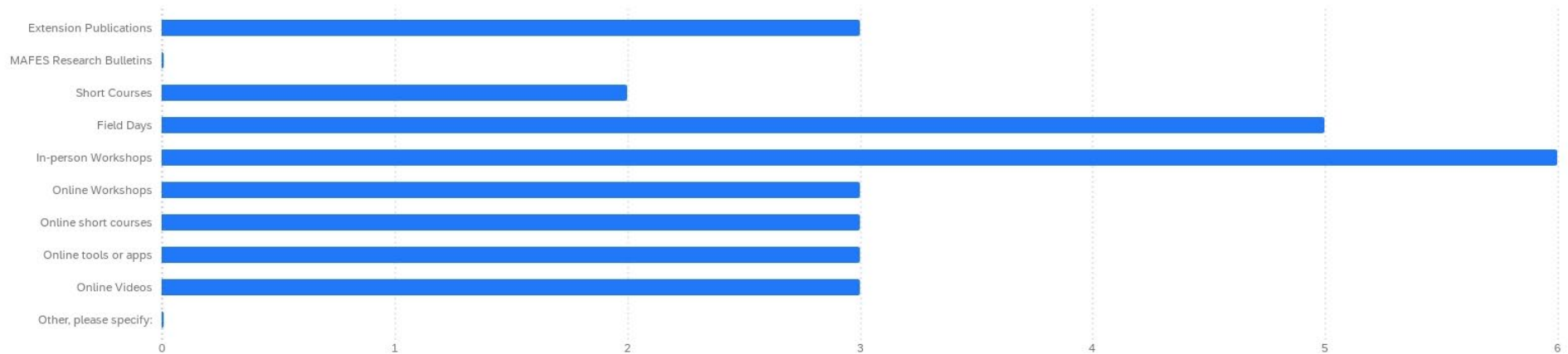


As it relates to Apiculture, what needs or challenges should be addressed through Research and Extension?

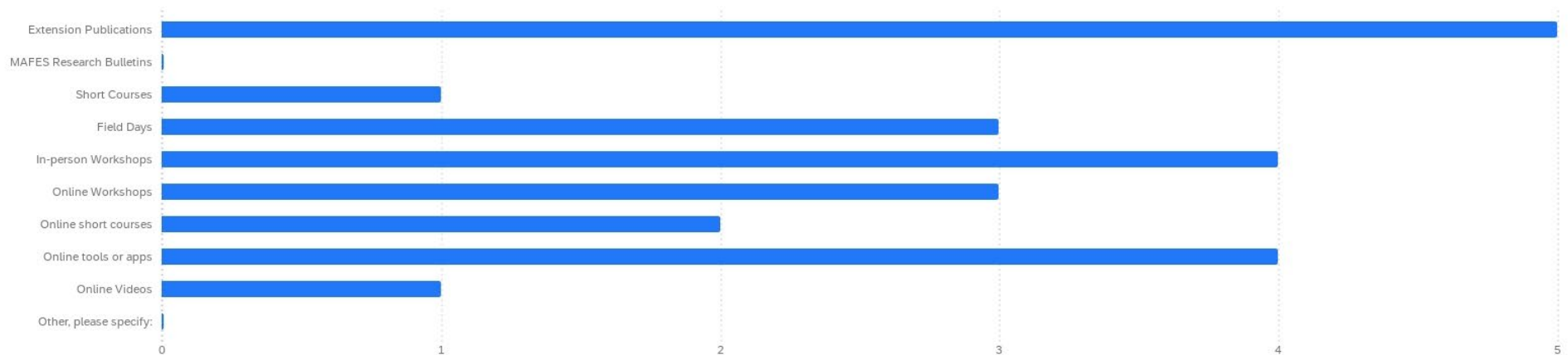
Need to develop a series of short courses for over the internet consumption from 101 to masters level for people who might be interested to those who are commercially involved.

Avian Ecology

What do you think are the most efficient ways for research-based information to be delivered for best use? 6 ①



4. As it relates to Avian Ecology, what research-based information delivery method do you want to see more offered? 6 ①

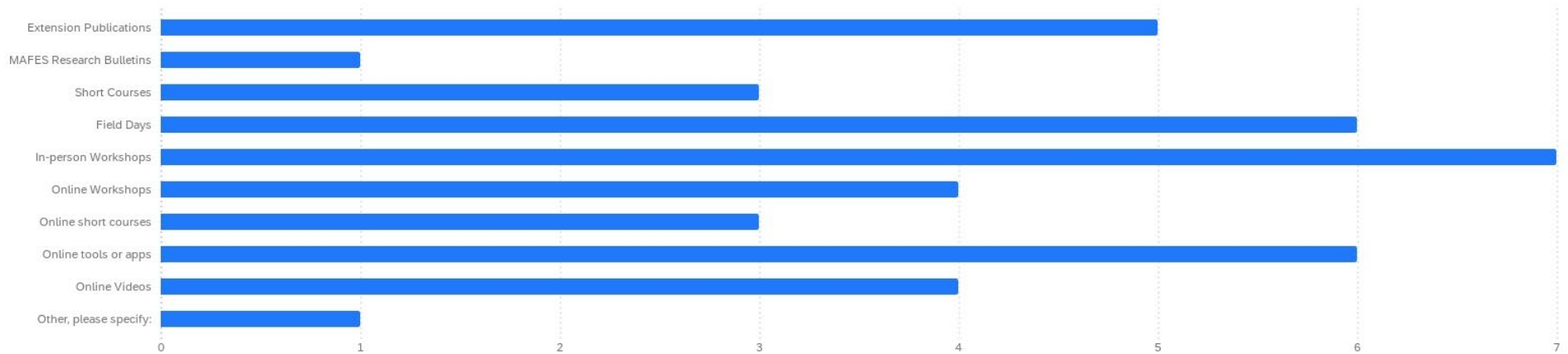


As it relates to Avian Ecology, what needs or challenges should be addressed through Research and Extension?

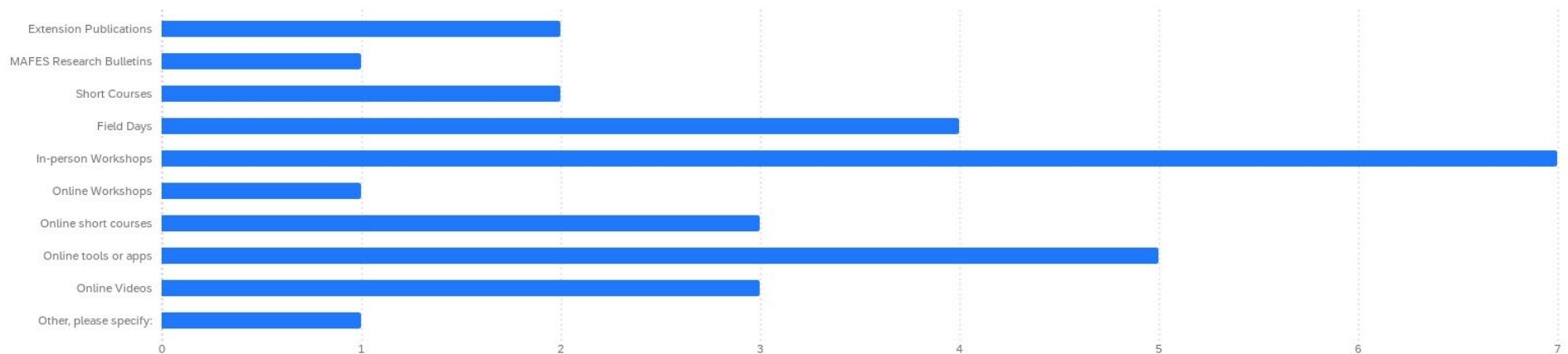
Migratory stopover and waterfowl (restoring habitat). Tools for developers and municipalities to conservation green spaces and other specific habitats
How will coastal development influence migratory songbirds as we lose more parcels of land at a rapid rate. Encourage sustainable development with our legislators -How do we improve coastal resiliency.

Coastal Ecology & Restoration

What do you think are the most efficient ways for research-based information to be delivered for best use? 9 ⓘ



4. As it relates to Coastal Ecology & Restoration, what research-based information delivery method do you want to see more offered? 9 ⓘ

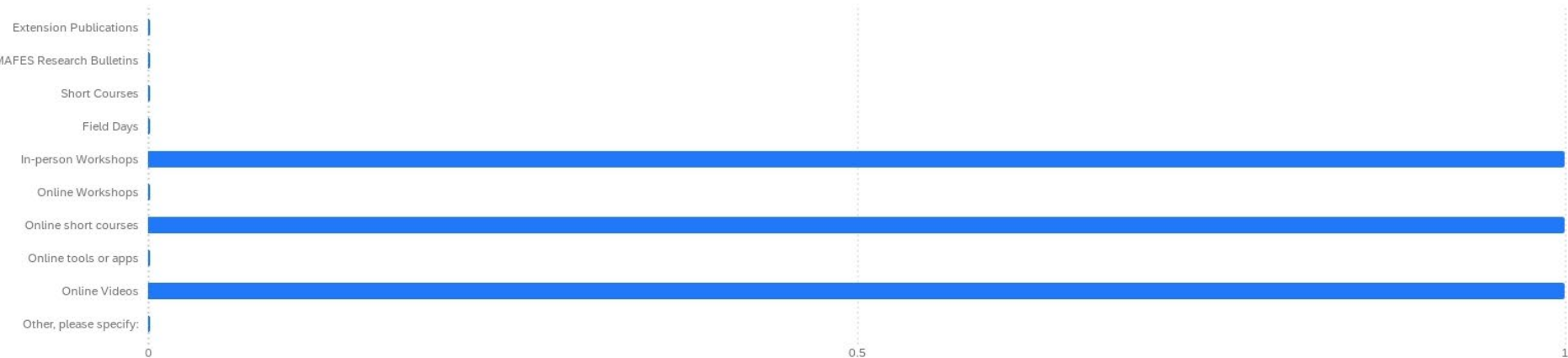


As it relates to Coastal Ecology & Restoration, what needs or challenges should be addressed through Research and Extension?

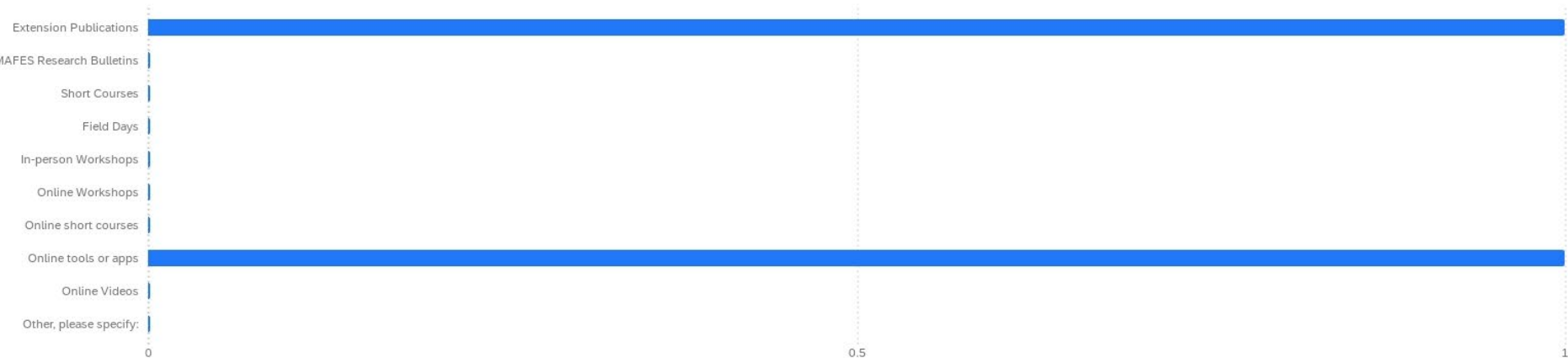
Addressing need for a targeted Ecosystem Services balance for MS Sound. Storm water runoff, wastewater treatment, "real recycling", roadside trash. Again, educate the developers and municipalities on smart growth and considering coastal environments into plans. Land conservation, upland habitat restoration practices, restoration effectiveness. Collecting baseline information about the MS Sound area. Restoration and enhancement of sea grass beds and oyster reefs. Impact of the Mid Breton Sound sediment diversion project and other similar proposed projects. I think all the oil leaks need to be resolved before restoration can be doable. The needs are extensive. More conservation grazing trainings and webinars. Would be good to see additional work on living shorelines as field days.

Coastal Climate Resilience

What do you think are the most efficient ways for research-based information to be delivered for best use? 1 ⓘ



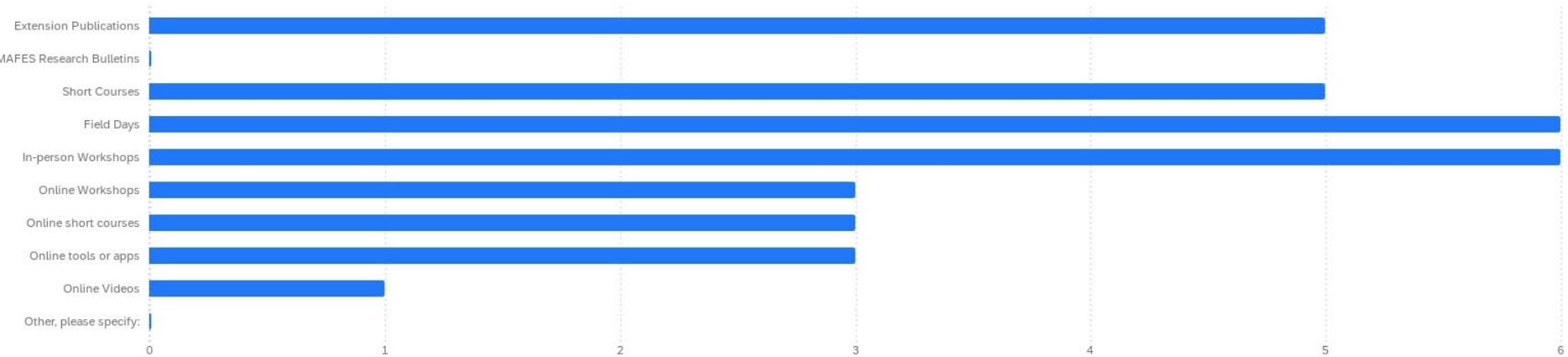
4. As it relates to Coastal Climate Resilience, what research-based information delivery method do you want to see more offered? 1 ⓘ



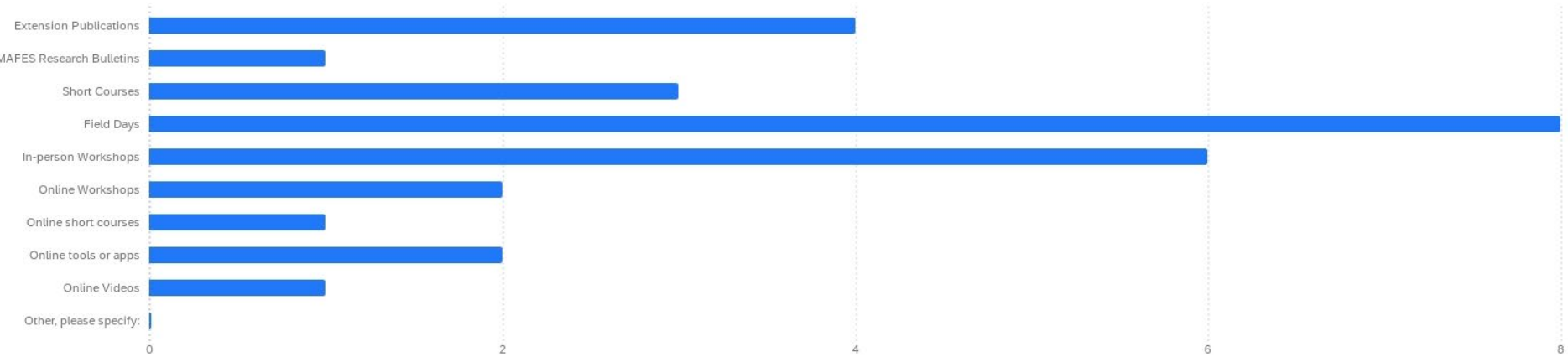
As it relates to Coastal Climate Resilience, what needs or challenges should be addressed through Research and Extension?

Commercial and Home Horticulture

What do you think are the most efficient ways for research-based information to be delivered for best use? 8 ⓘ



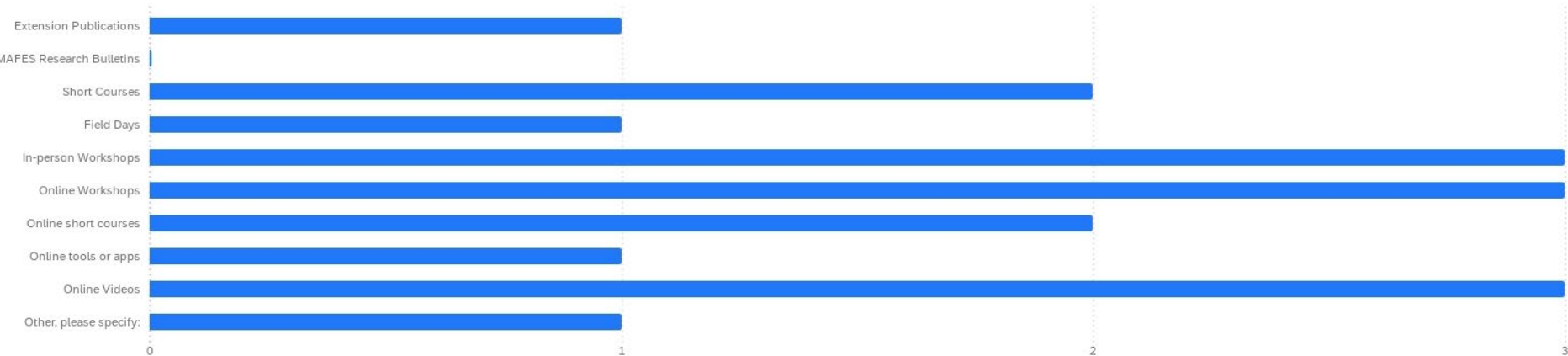
4. As it relates to Commercial and Home Horticulture, what research-based information delivery method do you want to see more offered? 9 ⓘ



As it relates to Commercial and Home Horticulture, what needs or challenges should be addressed through Research and Extension?
Connecting to the consumer. Research for production and marketing. Education for homeowners
Research and experiments in nontraditional fruits and vegetables would be beneficial.
Grant opportunities, better communication outreach

Floriculture and Floral Design

What do you think are the most efficient ways for research-based information to be delivered for best use? 5 ⓘ



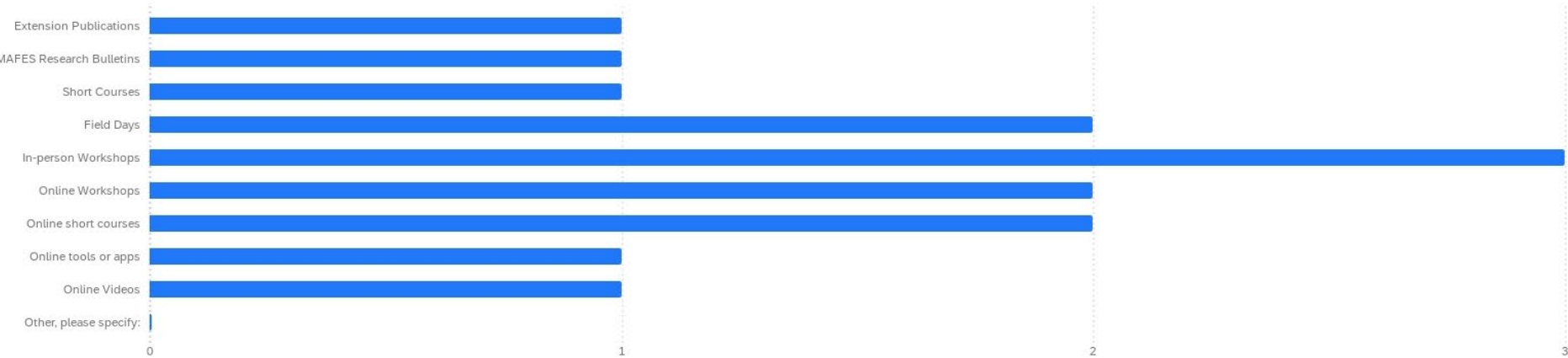
4. As it relates to Floral Design, what research-based information delivery method do you want to see more offered? 6 ⓘ



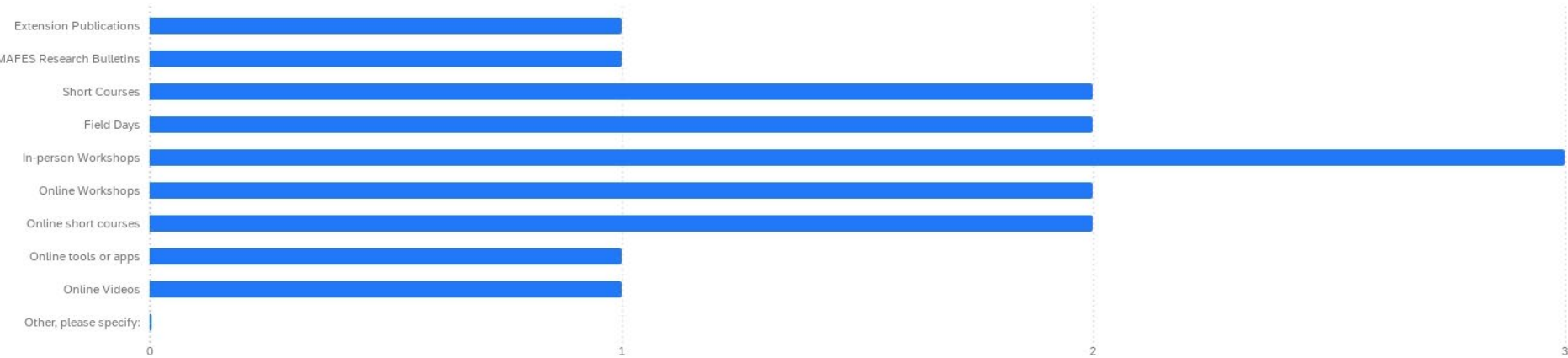
As it relates to Floral Design, what needs or challenges should be addressed through Research and Extension?
Reducing product costs

Forestry

What do you think are the most efficient ways for research-based information to be delivered for best use? 3 ⓘ



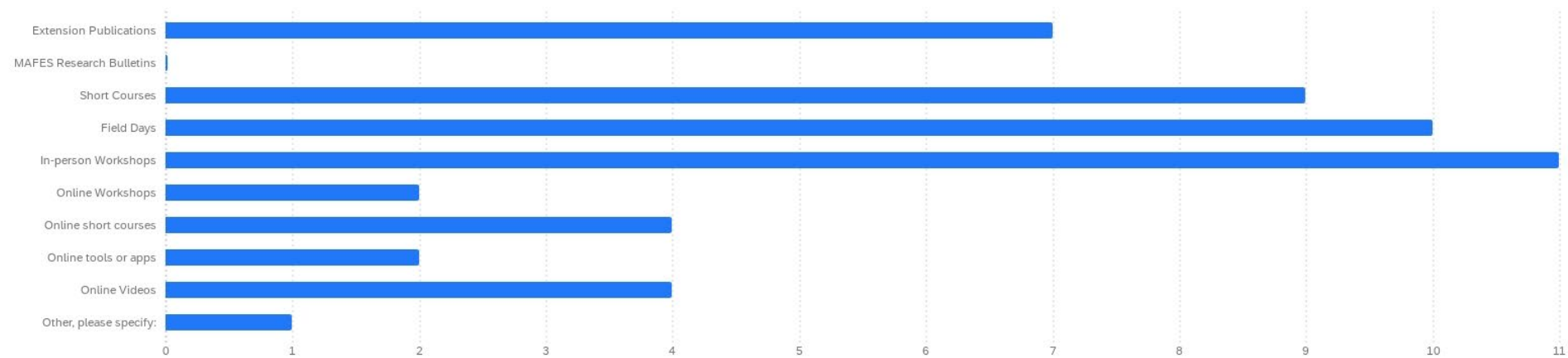
4. As it relates to Forestry, what research-based information delivery method do you want to see more offered? 3 ⓘ



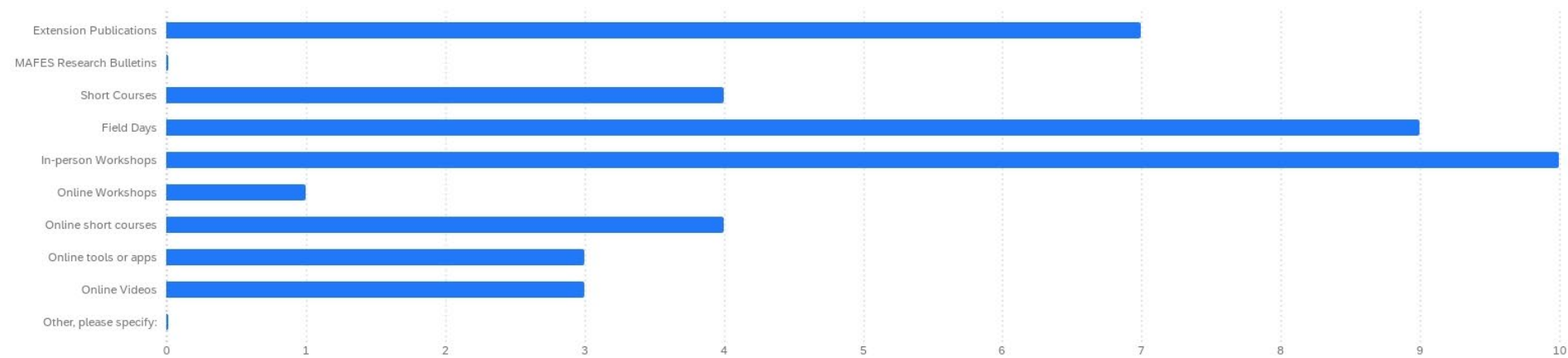
As it relates to Forestry, what needs or challenges should be addressed through Research and Extension?
Growing to the markets and specifications to each mill. I started out 20+ years ago w little or no knowledge of forestry. Since then I have gained some knowledge through listening to my consulting foresters, attending short courses, reading, and listening to others who are more involved than I.

Fruits and Vegetables

What do you think are the most efficient ways for research-based information to be delivered for best use? 13 ⓘ



4. As it relates to Fruits and Vegetables, what research-based information delivery method do you want to see more offered? 13 ⓘ

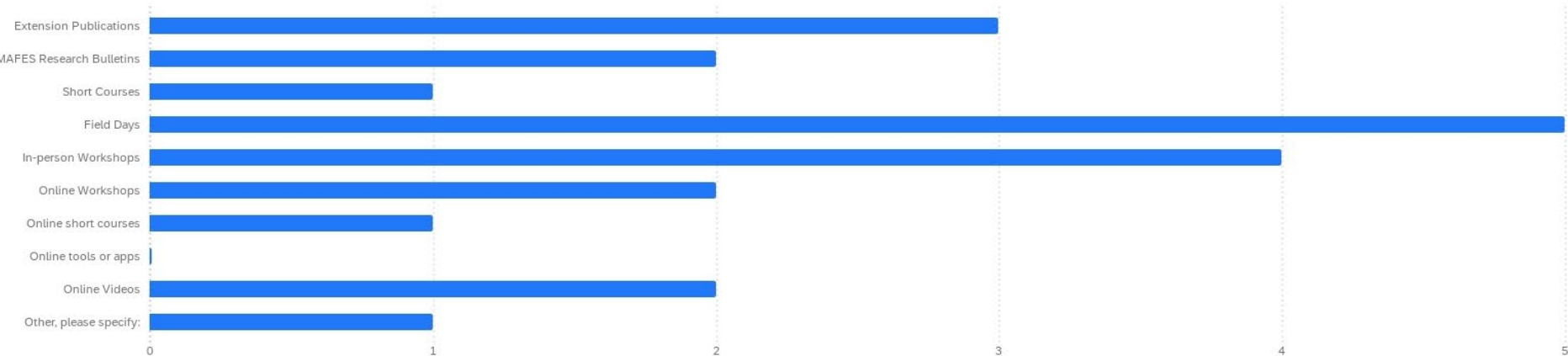


As it relates to Fruits and Vegetables, what needs or challenges should be addressed through Research and Extension?

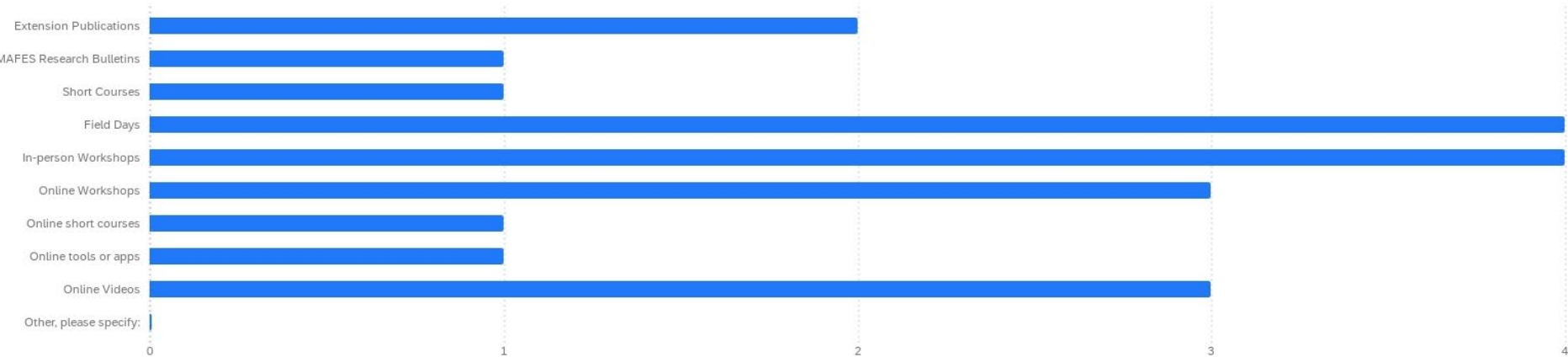
Latest innovation in production technology. Again, more research is needed for nontraditional plants. Should try different plants. The extension service does a great job on traditional plants, but open your minds. Cold tolerant fruit trees for Ms Gulf Coast. Better methods of communicating to general public Field days for on-hand workshops and encourage participation for local master gardeners.

Livestock, Horse, and Small Ruminants

What do you think are the most efficient ways for research-based information to be delivered for best use? 7 ⓘ



4. As it relates to Livestock, Horse, and Small Ruminants, what research-based information delivery method do you want to see more offered? 7 ⓘ

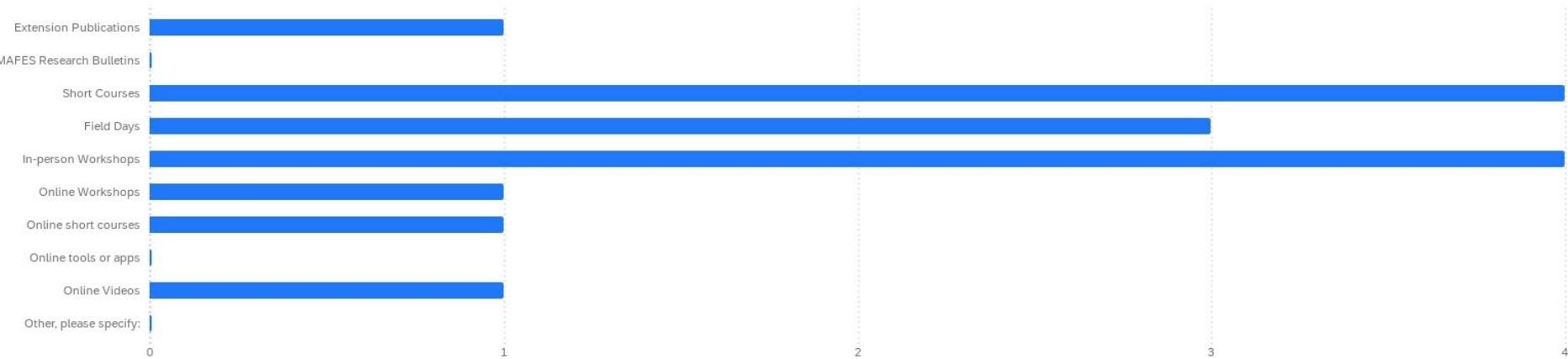


As it relates to Livestock, Horse, and Small Ruminants, what needs or challenges should be addressed through Research and Extension?

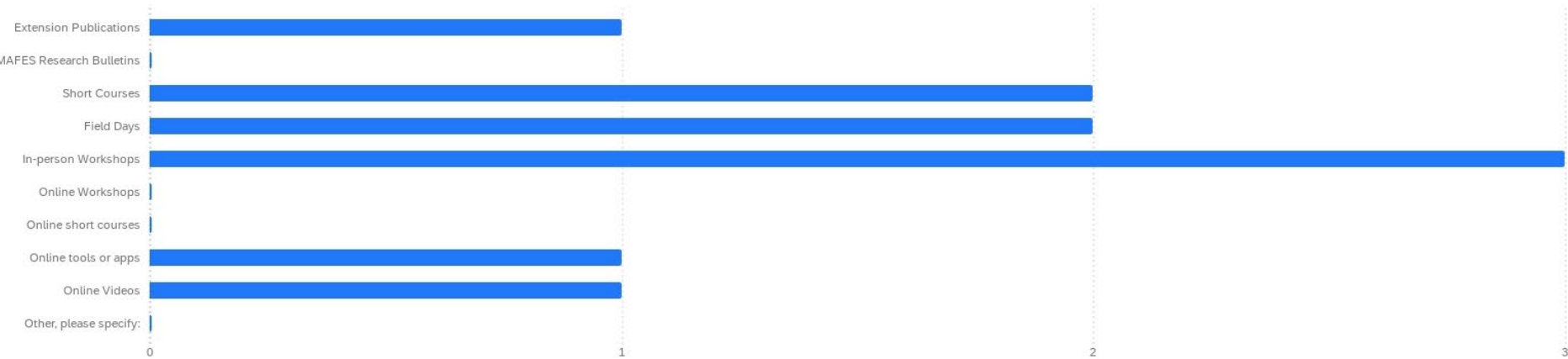
Fodder for sheep. Marketing of goats. Livestock should just read cattle.

Marine Fisheries Ecology

What do you think are the most efficient ways for research-based information to be delivered for best use? 4 ⓘ



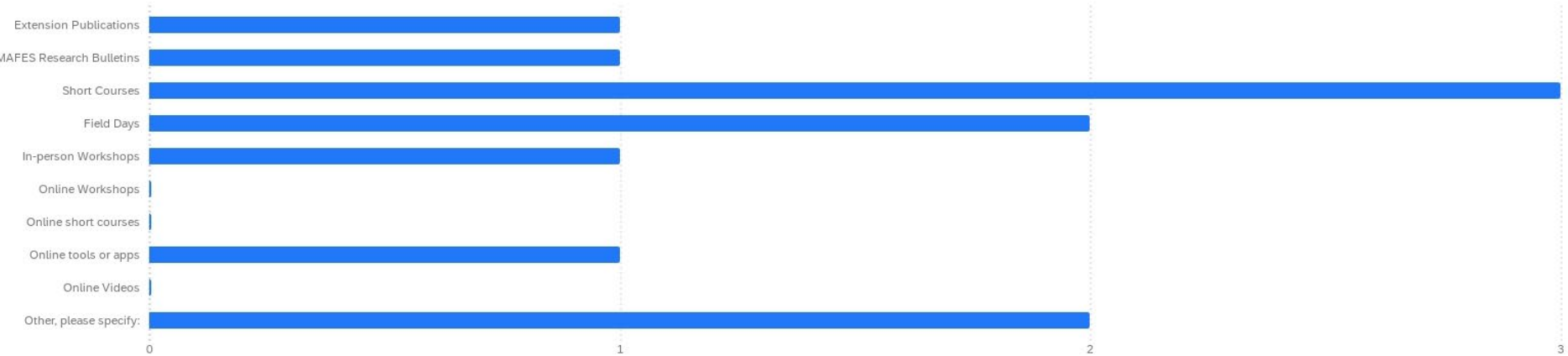
4. As it relates to Marine Fisheries Ecology, what research-based information delivery method do you want to see more offered? 4 ⓘ



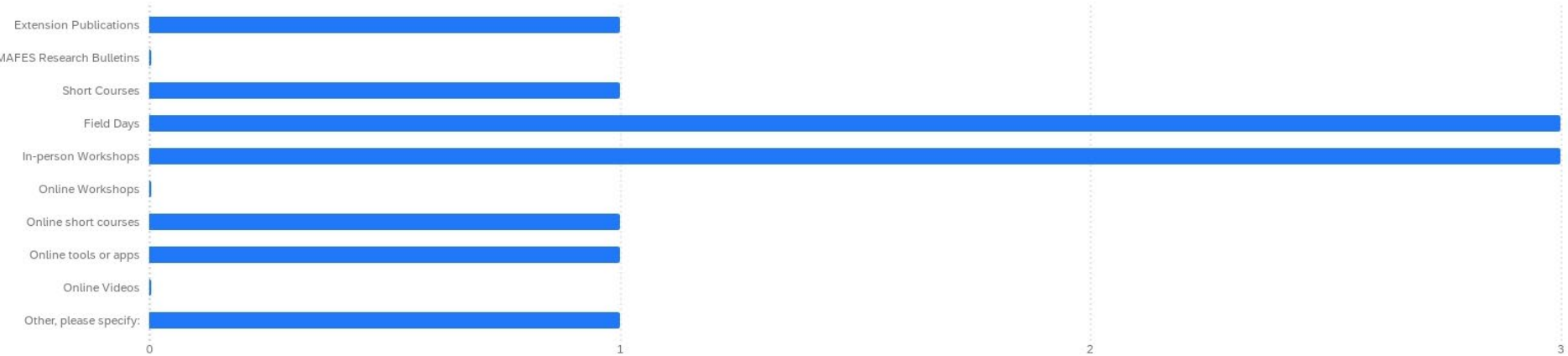
As it relates to Marine Fisheries Ecology, what needs or challenges should be addressed through Research and Extension?
An Ecosystem fisheries management approach for Mississippi Sound. Understanding the nursery function of Gulf Coast estuaries.

Poultry

What do you think are the most efficient ways for research-based information to be delivered for best use? 3 ⓘ



4. As it relates to Poultry, what research-based information delivery method do you want to see more offered? 3 ⓘ



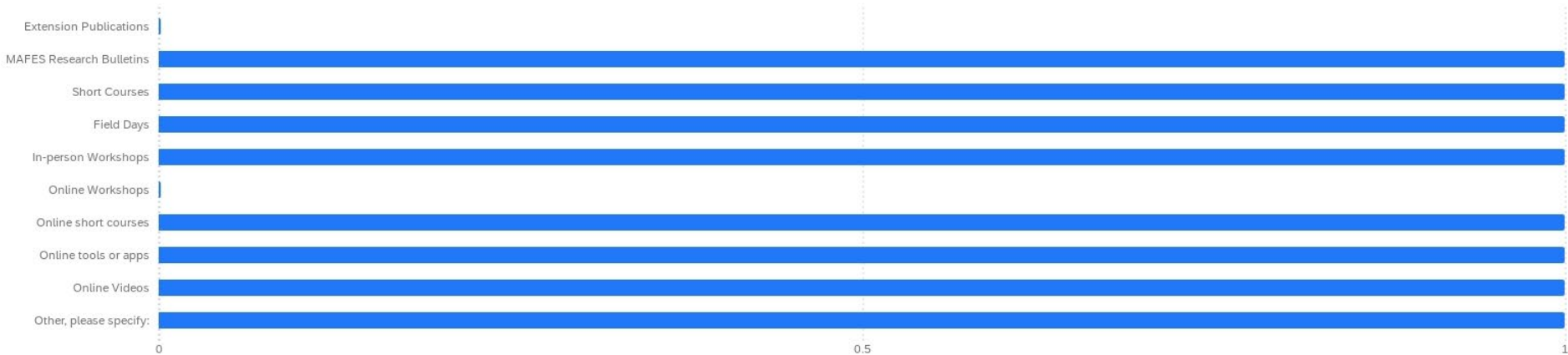
As it relates to Poultry, what needs or challenges should be addressed through Research and Extension?
Research into feed and diet issues for alternatives to traditional grains and forage.

Seafood Processing & Markets

What do you think are the most efficient ways for research-based information to be delivered for best use? 2 ⓘ



4. As it relates to Seafood Processing & Markets, what research-based information delivery method do you want to see more offered? 2 ⓘ



As it relates to Seafood Processing & Markets, what needs or challenges should be addressed through Research and Extension?
More ways to make money processing our catch.



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Mississippi State University Extension Service
Mississippi State University Marine Fisheries Ecology
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