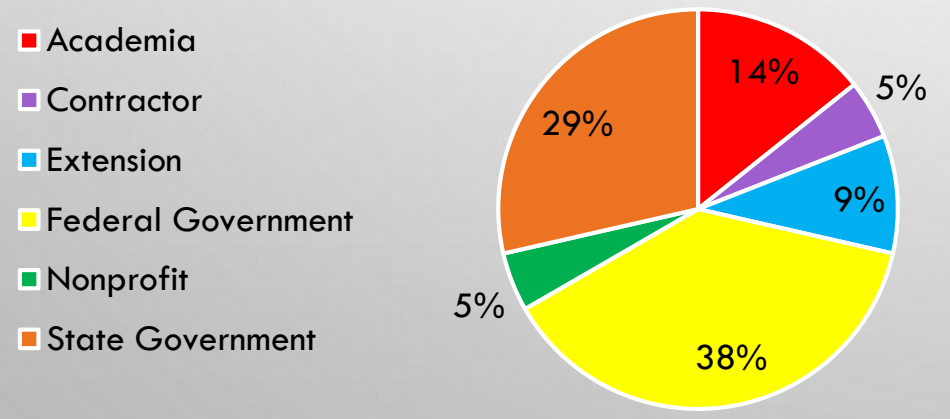
CRWG MEMBERSHIP SURVEY RESULTS

JAMILEH SOUEIDAN, CRC/NOAA

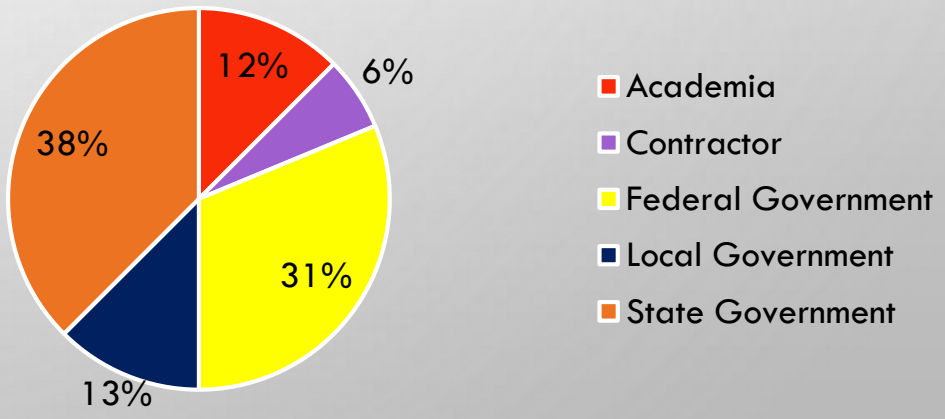
MEMBERSHIP (EXCLUDING CRWG STAFF)

- 45 RESPONSES TOTAL
- 17 INDIVIDUALS RESPONDED THAT THEY WERE INTERESTED IN BEING CRWG MEMBERS, INCLUDING 8 NEW MEMBERS
- 26 REQUESTED THAT THEY EITHER REMAIN OR BE ADDED TO THE INTERESTED PARTIES LIST

Old Membership Affiliations



New Membership Affiliations



PREFERRED ROLES & OUTCOME OF INTEREST (INCLUDES ALL SURVEY RESPONDENTS; BOTH INTERESTED PARTIES AND MEMBERS)

- 20 RESPONDENTS ARE WILLING TO SERVE AS ADVISORS ON A STEERING COMMITTEE
- 14 RESPONDENTS ARE WILLING TO SERVE AS SCIENCE NEEDS ADVISORS
- 2 RESPONDENTS ARE WILLING TO SERVE AS GRANTS PROPOSAL ADVISORS
- 1 RESPONDENT IS WILLING TO SERVE AS A TEAM LEAD
- 0 RESPONDENTS ARE WILLING TO SERVE AS TECHNICAL LEADS

- 9 RESPONDENTS INDICATED THAT THEY ARE MORE INTERESTED IN SUPPORTING THE MONITORING AND ASSESSMENT OUTCOME
- 11 RESPONDENTS INDICATED THAT THEY ARE MORE INTERESTED IN SUPPORTING THE ADAPTATION OUTCOME
- 11 RESPONDENTS INDICATED THAT THEY ARE INTERESTED IN SUPPORTING BOTH OUTCOMES
    - ADD FIGURE IN FOR THIS (BAR CHART)

PREFERRED MEETING STRUCTURE

- ~97% OF RESPONDENTS PREFER MONTHLY, 2-HOUR LONG MEETINGS, WITH OCCASIONAL 4-HOUR CROSS-WORKGROUP MEETINGS
- 2 RESPONDENTS ENTERED OTHER MEETING STRUCTURE PREFERENCES:
  - "I WOULD ENCOURAGE THINKING ABOUT WHAT YOU WANT OUT OF THE MEETINGS AND THEN USE THAT TO FRAME MEETING TIMES"
  - "LONGER IN-PERSON MEETINGS"
- **BASED ON THE RESULTS OF THE SURVEY AND THE AVAILABILITY OF WORKGROUP STAFF AND LEADERSHIP, THE MONTHLY MEETINGS WILL LIKELY BE MOVED TO THE THIRD THURSDAY OF EVERY MONTH FROM 1:30 TO 3:30 PM**

KNOWLEDGE AND EXPERTISE

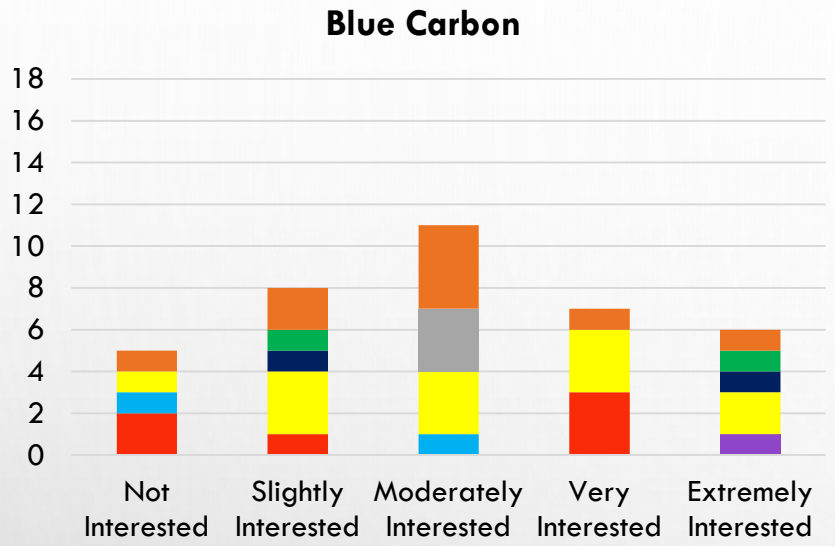
Topics with the 5 lowest average levels of knowledge/ expertise:

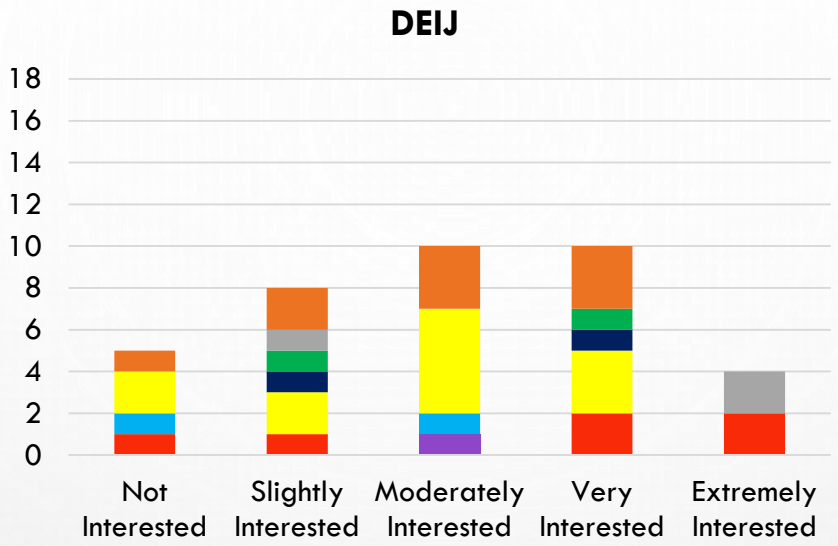
- Fisheries science/management
- Climate change impacts on non-tidal fisheries (e.g., brook trout)
- Climate change impacts on tidal fisheries (e.g., striped bass, summer flounder)
- Large-scale marsh restoration
- Climate change impacts on agriculture practices

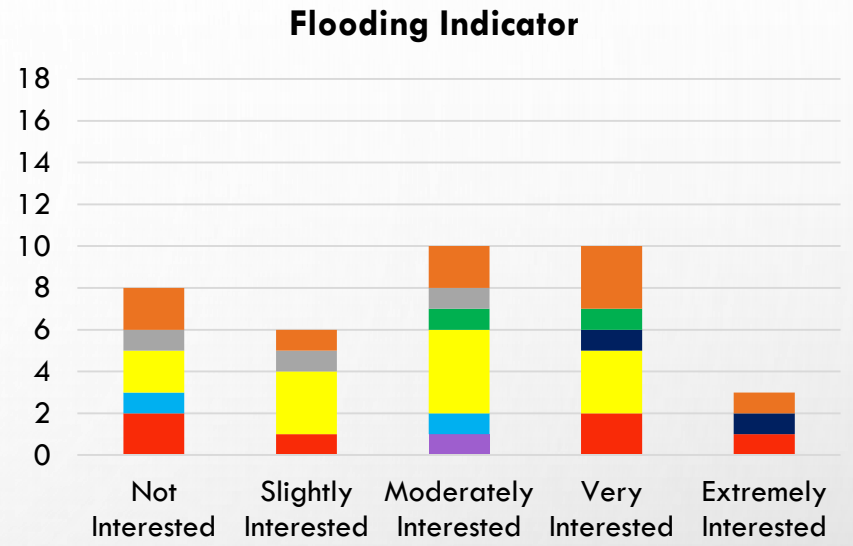
Topics with the 5 highest average levels of knowledge/ expertise:

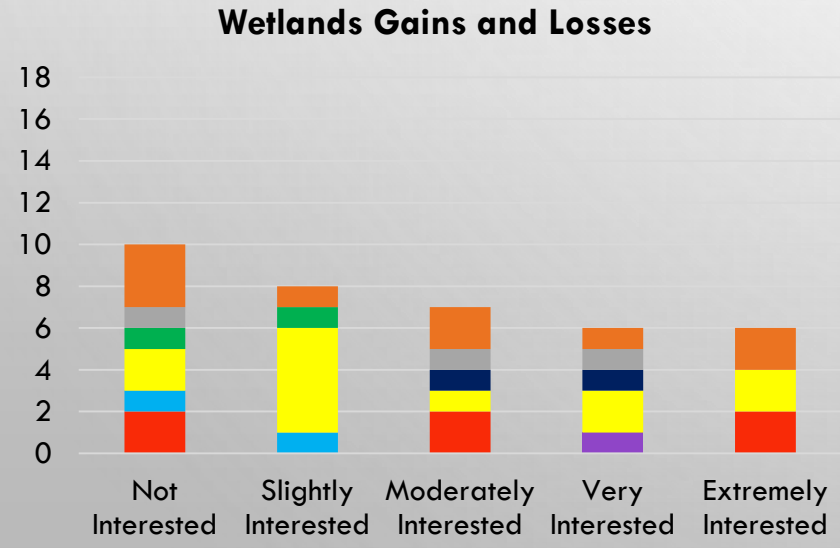
- Climate change impacts on water quality
- Climate resilience/adaptation planning
- Proposal/grant writing
- Flood-related impacts from climate change
- Data analysis

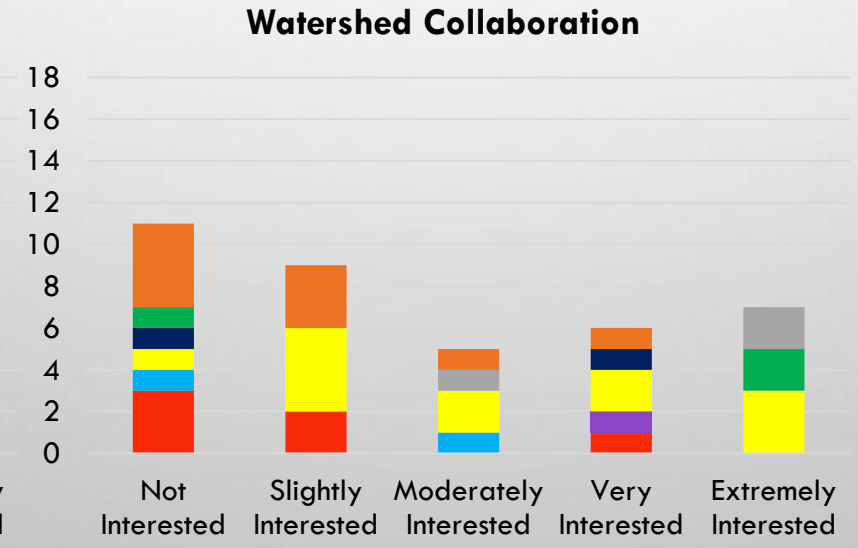
INTEREST IN MONITORING AND ASSESSMENT ACTIVITIES- HIGHEST RANKED ACTIVITIES (38 RESPONDENTS)

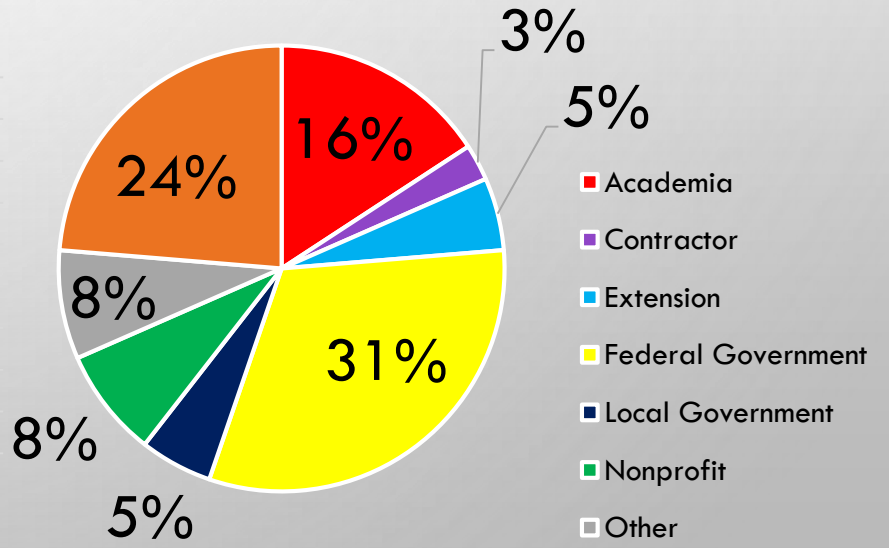




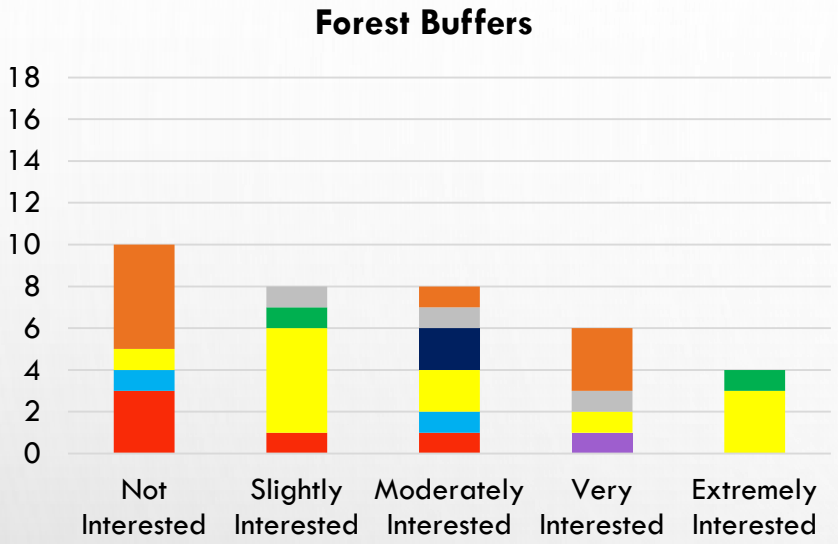


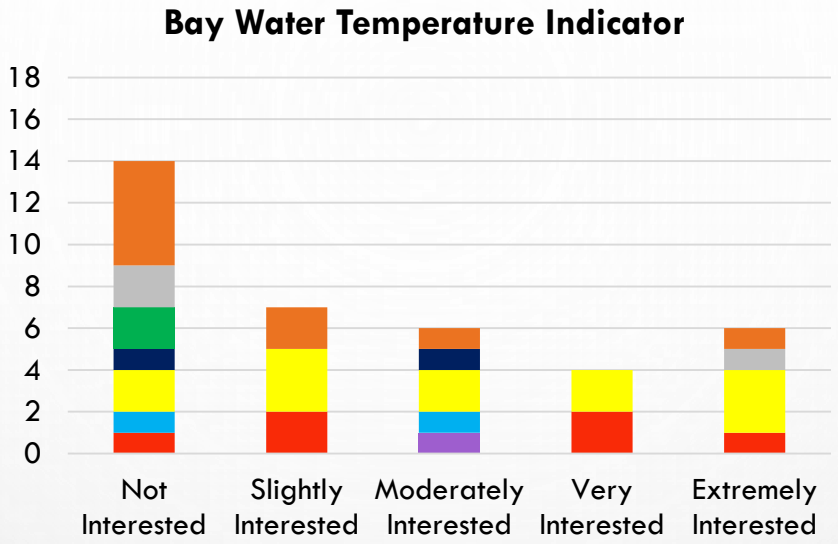


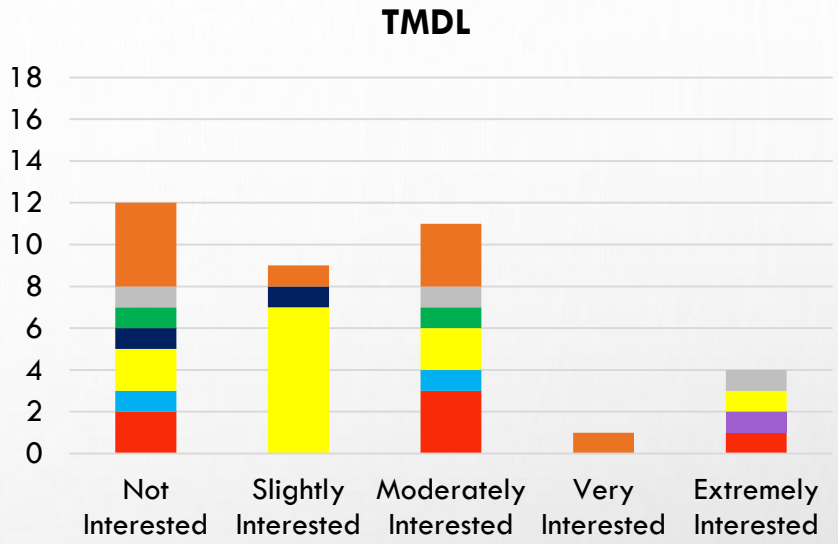


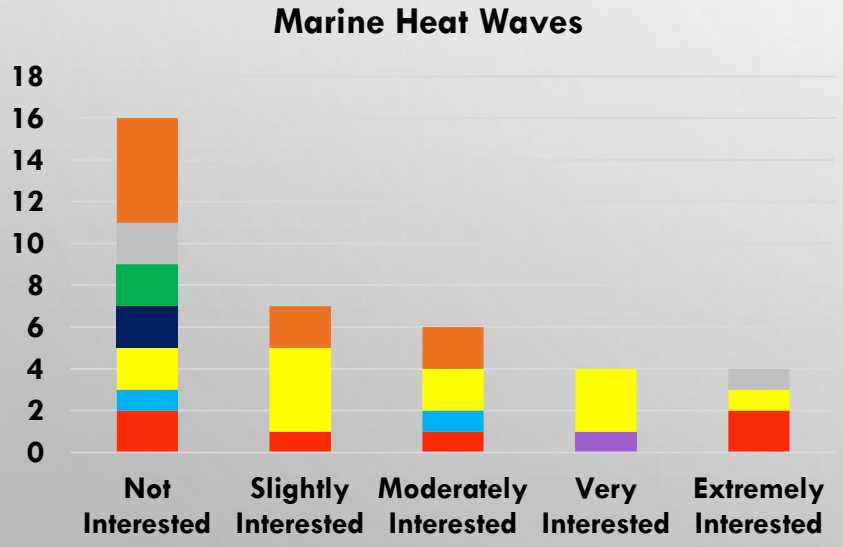


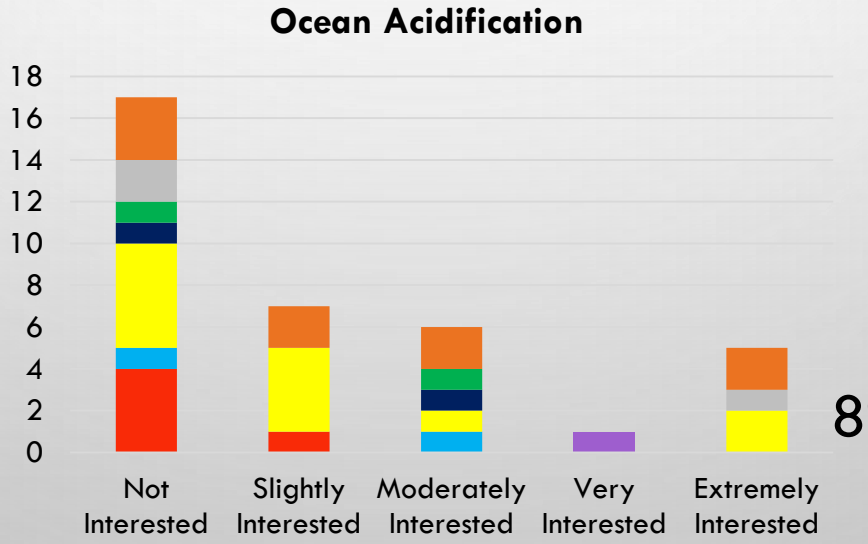
INTEREST IN MONITORING AND ASSESSMENT ACTIVITIES- LOWEST RANKED ACTIVITIES (38 RESPONDENTS)

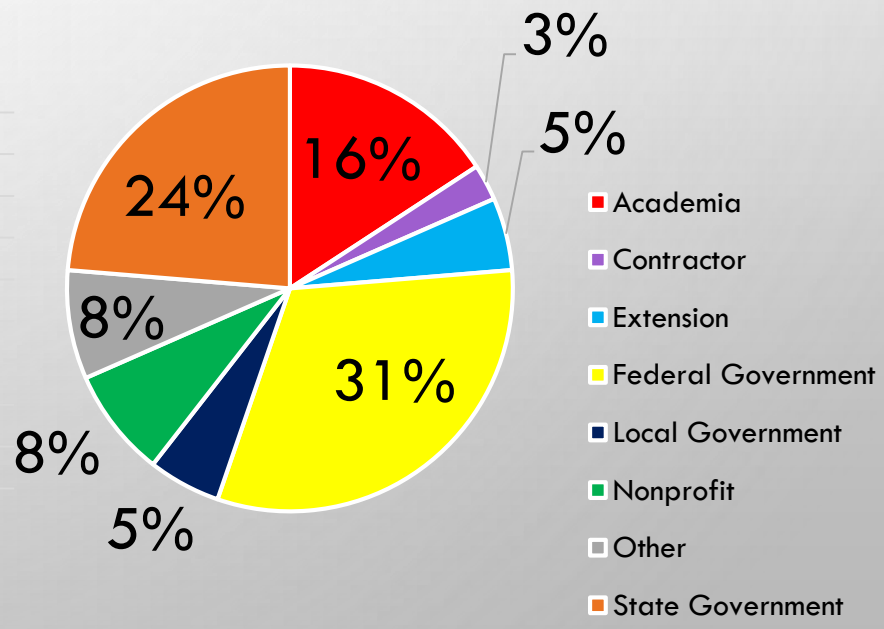




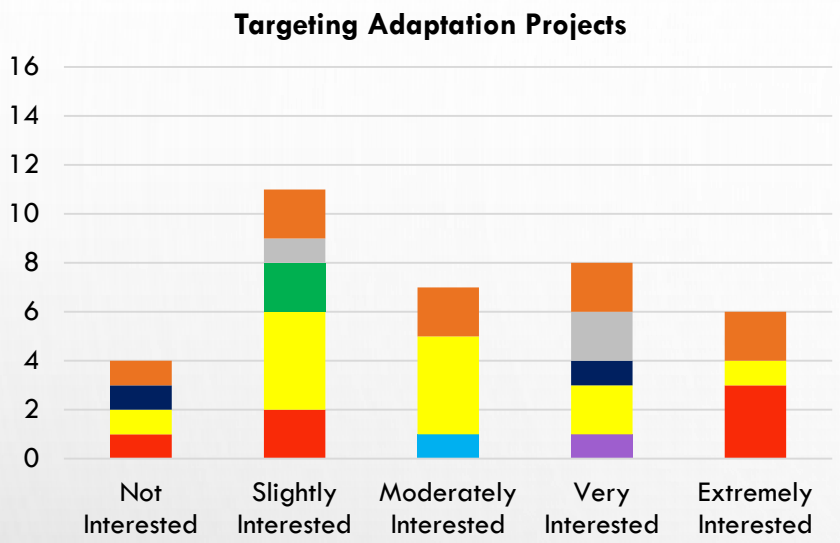


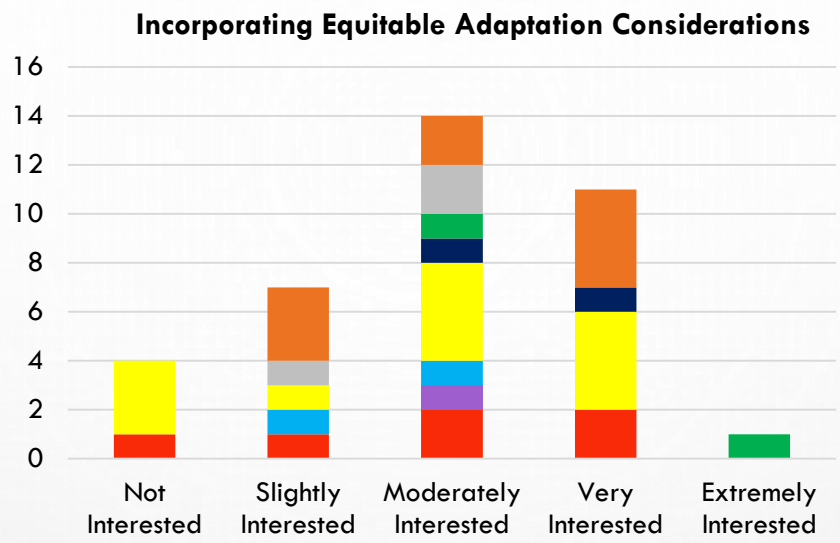


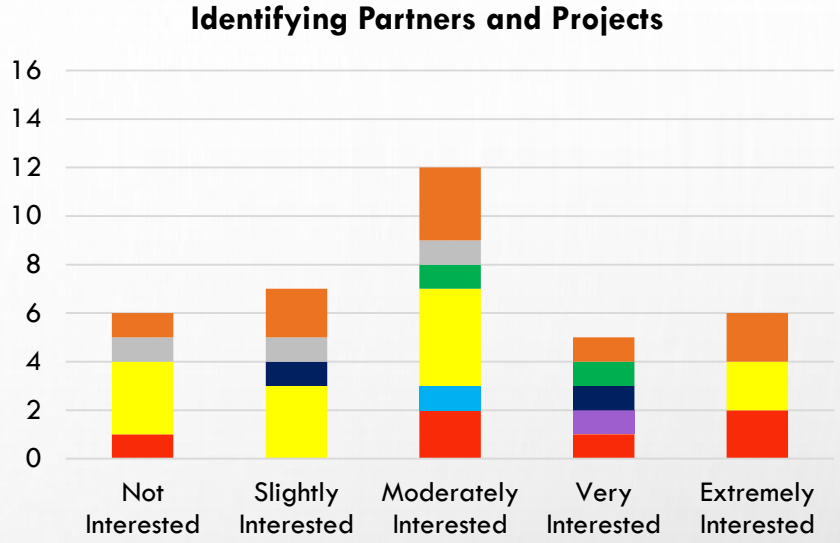


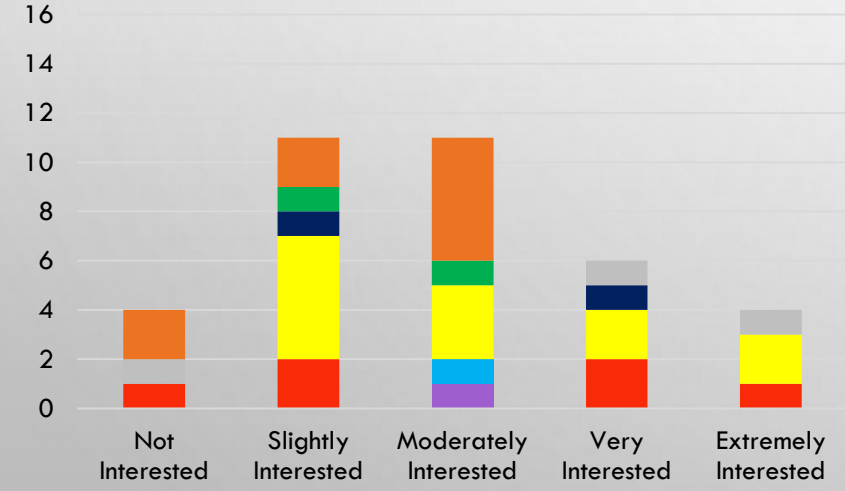


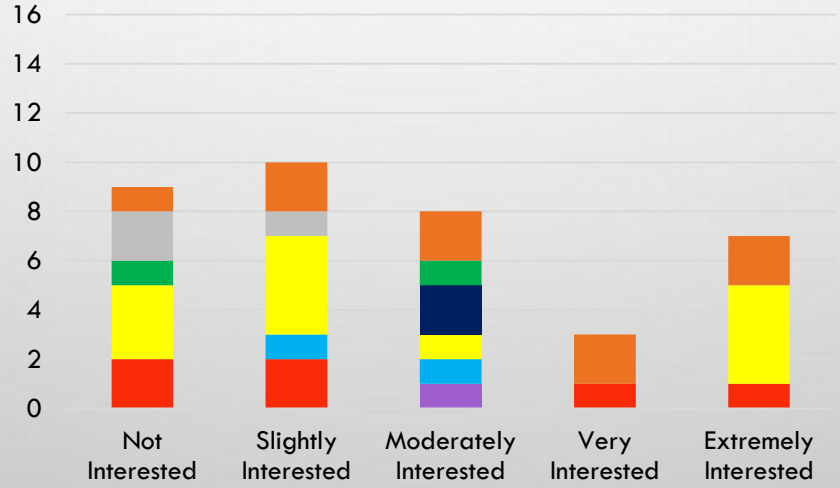
INTEREST IN ADAPTATION ACTIVITIES- HIGHEST RANKED ACTIVITIES (37 RESPONDENTS)

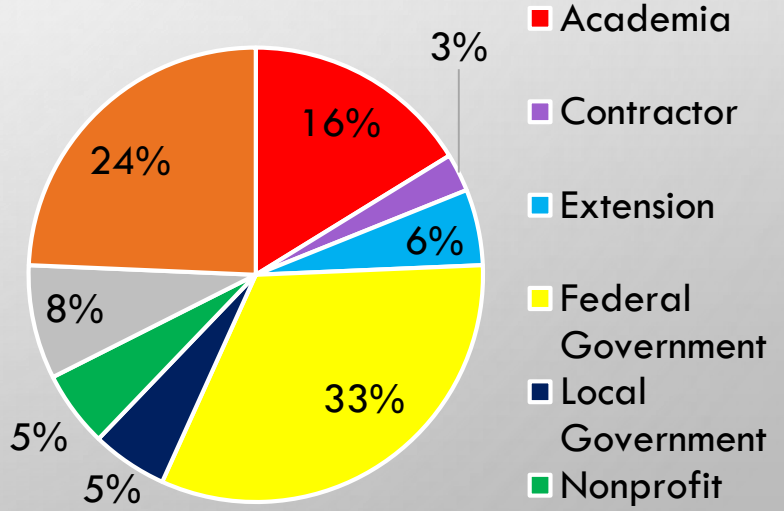






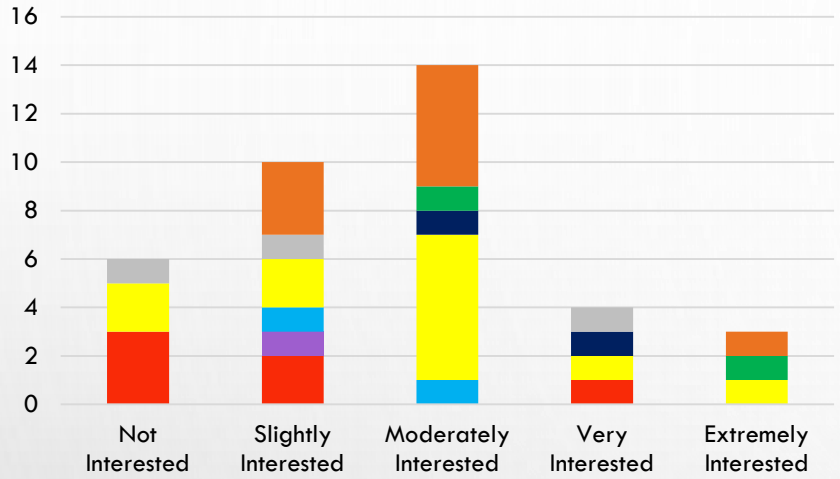




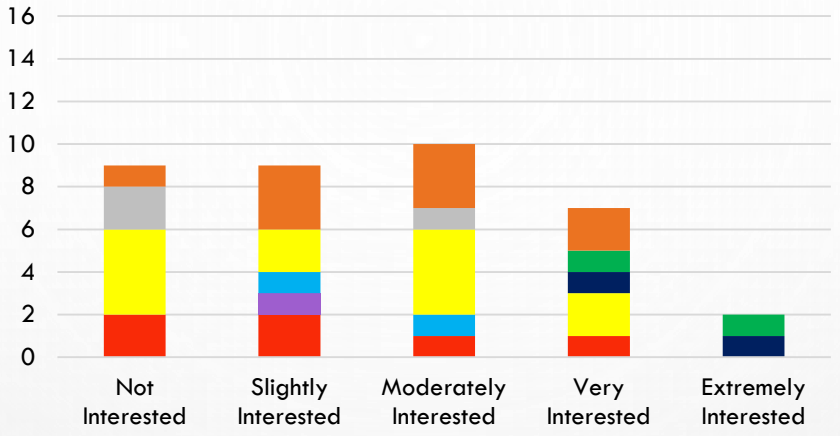


INTEREST IN ADAPTATION ACTIVITIES- LOWEST RANKED ACTIVITIES (37 RESPONDENTS)

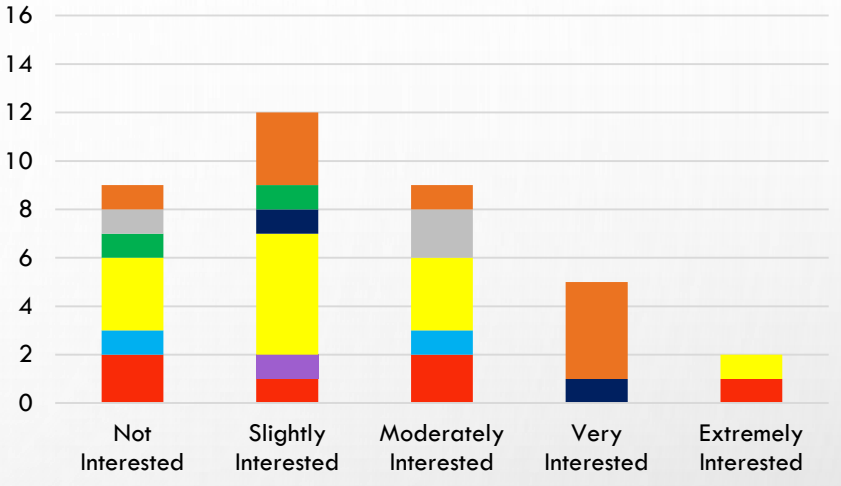
Social Science Recommendations



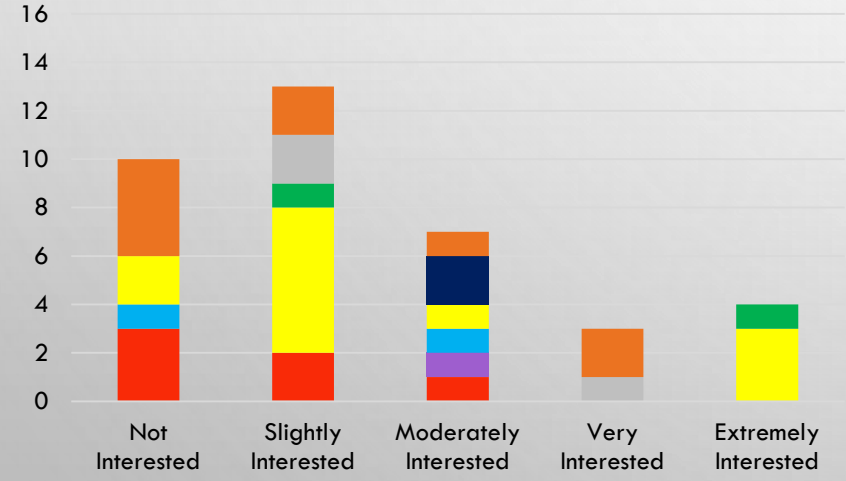
Coordinate with the Strategic Engagement Team



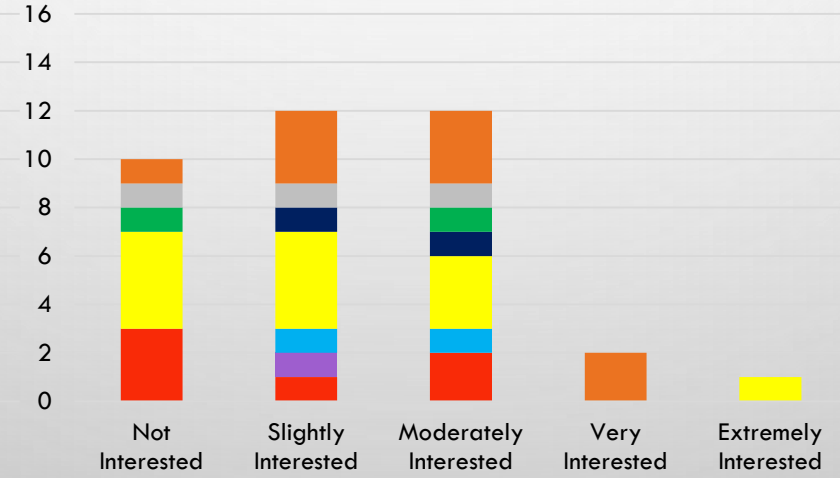
Best Management Practices



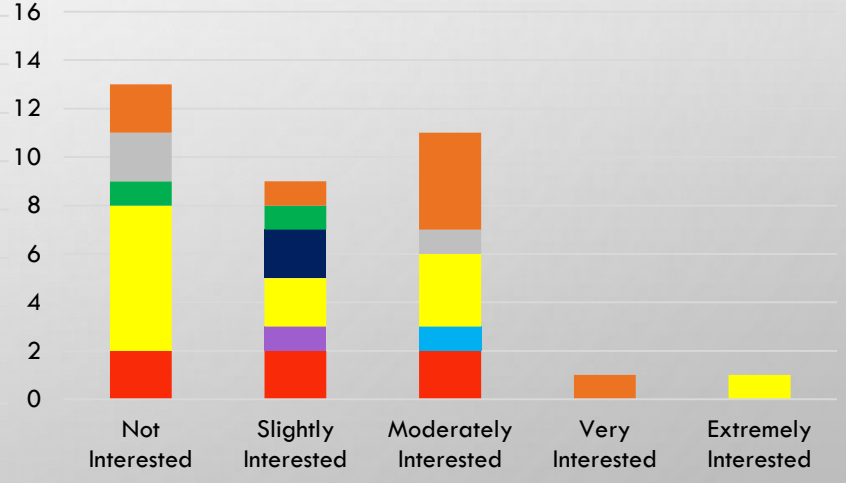
Forest Buffers



Connect Partners with Funding



Grant Support



Academia
Contractor
Extension
Federal Government
Local Government
Nonprofit
Other
State Government

ADDITIONAL ACTIVITIES OF INTEREST:

- ANYTHING THAT WILL HELP MARYLAND TO IMPLEMENT MARYLAND'S PLAN TO ADAPT TO SALTWATER INTRUSION AND SALINIZATION (2019), TO APPLY THE LESSONS WE'VE LEARNED IN FACILITATING ITS IMPLEMENTATION, AND TO UPDATE THE PLAN BY THE END OF 2024 AS REQUIRED BY MARYLAND LAW.
- BLUE SKY FLOODING.
- COLLABORATION BETWEEN MILITARY INSTALLATIONS AND THEIR DEFENSE COMMUNITIES (FUNDING, STAFF CAPACITY, OTHER ASSETS) TO BUILD JOINT RESILIENCE
- HELP GOVERNMENTS MAKE INFRASTRUCTURE AND PERMITTING DECISIONS DESPITE IMPERFECT UNDERSTANDING OF FUTURE RISKS.
- THE CLIMATE RESILIENCY WORKGROUP WOULD BE MORE EFFECTIVE IF IT TOOK A MORE HOLISTIC APPROACH TO THE WATERSHED. IT WOULD BE WORTH EXPLORING DEDICATING UPWARDS OF 25% OF THE TIME TO ADAPTATION NEEDS IS HEADWATER STREAMS AND BUFFERS WITH PARTICULAR FOCUS ON DEFINING APPROPRIATE CONSERVATION BUFFERS.
- INTEGRATING MORE SUBMERGED AQUATIC VEGETATION EFFORTS INTO THE WORKPLAN
- OPENING FISH PASSAGE (CULVERT REPLACEMENTS, DAM REMOVALS) IS A STRATEGY THAT HELPS BROOK TROUT AND OTHER FISHES FIND SUITABLE HABITAT, WHICH IS A CLIMATE RESILIENCE STRATEGY. ALSO, LAND PROTECTION. IF WE CAN PROTECT LAND FROM OVERDEVELOPMENT NOW, WE MAY BE ABLE TO PROTECT SOME OF THE BEST HABITAT THAT ALSO HAS THE POTENTIAL TO REMAIN COOL.
- SPAWNING HABITAT FOR NON-TIDAL FISHES
- SUPPORTING THE FY22 GIT-FUNDED PROJECT "OPTIMIZING RIPARIAN FOREST BUFFER (RFB) IMPLEMENTATION FOR CLIMATE ADAPTATION AND RESILIENCE"

TO CAPITALIZE ON RESILIENCE FUNDING…

- ASSIST COMMUNITIES AND LEADERS IN POTENTIAL ELIGIBLE PROJECTS THAT ARE SUPPORTED UNDER THE RESILIENCE FUNDING
  - DIRECT LOCALITIES TO FUNDING SOURCES AND ASSIST WITH APPLICATIONS IF POSSIBLE.
  - POSSIBLY SETTING PRIORITIES THAT LOCALITIES CAN THEN CITE IN SUPPORT OF THEIR PROJECTS. CONNECTING PROJECTS WITH TECHNICAL OR DEI NEEDS. GUIDANCE ON PROPOSAL DESIGN OR PROJECT SUCCESS.
- BIL HAS SOME SPECIFIC CRITERIA, BEYOND THAT WE CAN SHAPE AND TRY TO STEER THE MONEY INTO ALL THESE CRITERIA. FROM YOUR EXAMPLES THE PRIORITY FOR CRWG SHOULD BE GREEN INFRASTRUCTURE INCLUDING LIVING SHORELINES AND STORMWATER CONTROL AND THEN MARSH RESTORATION.
- BUILDING CAPACITY AND PARTNERSHIPS
  - CONTINUE WORKING COLLABORATIVELY WITH MDE AND OUR WORK UNDER MARYLAND'S CONSERVATION FINANCE ACT TO EXPAND BLUE AND GREEN INFRASTRUCTURE FINANCING/FUNDING
  - HELP WITH COORDINATION ACROSS THE WATERSHED ON GRANT DEVELOPMENT
- THERE SHOULD BE SEPARATE GIT FUNDING TO HIRE ONE OR MORE GRANT WRITERS TO APPLY FOR THE INFLUX OF RESILIENCE FUNDING. WORKGROUP STAFF AND MEMBERS SHOULDN'T HAVE TO WRITE THESE PROPOSALS.

HOW CAN THIS TEAM BETTER SERVE ITS MEMBERS AND DRIVE PROGRESS FOR CLIMATE CHANGE ADAPTATION?

- Promoting successes and tangible impacts resulting from CRWG efforts
- Clear goals (like 2 not 20), simple actions with clear outcomes to address specific goals, identify funds to get the actions done and goals met
- Open channels of communication and adaptive management
- Enhance work to connect partners and leverage distinct capabilities
- Help develop more pipeline projects that are primed for when funding becomes available.
- Incorporate more non-tidal science needs for whole watershed adaptation
- Make sure we are working in all jurisdictions. Adaptation priorities may differ across jurisdictions.

FINAL THOUGHTS AND QUESTIONS

- NEED TO THINK ABOUT BALANCING CORE MEMBERSHIP ACROSS JURISDICTIONS AND TIDAL AND WATERSHED EXPERTISE
- WHAT INFORMATION DO YOU NEED TO CONSIDER BEING A TECHNICAL LEAD?
  - TECHNICAL LEADS ARE INTEGRAL FOR GIT-FUNDED PROJECTS
- HOW DO WE BALANCE WORKGROUP INTERESTS WITH ACTIONS IN THE WORKPLAN?
  - HOW DO WE SUPPORT CHESAPEAKE BAY PROGRAM PRIORITIES, WHILE ALIGNING WORKGROUP INTERESTS?

INTEREST IN MONITORING AND ASSESSMENT ACTIVITIES

THE FOLLOWING ACTIVITIES ARE RANKED FROM MOST TO LEAST INTEREST:

1. SUPPORT EFFORTS TO IDENTIFY STRATEGIES TO QUANTIFY BLUE CARBON BENEFITS OF NATURE-BASED/NATURAL INFRASTRUCTURE-RELATED ACTIVITIES (E.G., LIVING SHORELINES, MARSH RESTORATION, AGRICULTURE BMPS, FOREST BUFFERS).
2. IDENTIFY STRATEGIES TO INCORPORATE DIVERSITY, EQUITY, INCLUSION, AND JUSTICE CONSIDERATIONS WHEN DEVELOPING CLIMATE CHANGE ASSESSMENT PRODUCTS (E.G., RESTORATION TARGETING METRICS, CLIMATE CHANGE INDICATORS).
3. SUPPORT EFFORTS TO ASSESS STRATEGIES AND IDENTIFY PARTNERS FOR FLOODING-RELATED INDICATORS RELATED TO COMMUNITY RESILIENCE.
4. SUPPORT EFFORTS IN EVALUATING APPROACHES TO ASSESS TIDAL WETLAND GAINS AND LOSSES RELATED TO SEA LEVEL RISE AND MARSH MIGRATION.
5. SUPPORT COLLABORATIONS WITH HEALTHY WATERSHEDS, STREAM HEALTH, AND BROOK TROUT TEAMS IN INCORPORATING CLIMATE CHANGE EFFECTS (E.G., CHANGE IN STREAM TEMPERATURES) TO IDENTIFY STRATEGIES TO INFORM AND TRACK RESILIENCE PROGRESS.
6. PROVIDE SUPPORT FOR PROJECTS ASSESSING CLIMATE RESILIENCE RELATED TO FOREST BUFFERS AND TREE CANOPY.
7. ASSIST WITH THE BAY WATER TEMPERATURE CHANGE CLIMATE INDICATOR - I.E., IDENTIFY USER CASE SCENARIOS (E.G., FISH HABITAT RISK ASSESSMENT, SUBMERGED AQUATIC VEGETATION RESTORATION TARGETING); COORDINATE WITH DATA PROVIDERS/ANALYSTS; ASSESS METHODOLOGIES AND VISUAL REPRESENTATION OF DATA.
8. PROVIDE ADVISORY SUPPORT FOR DISCUSSIONS ON THE TMDL CLIMATE CHANGE MODEL PROJECTIONS RELATED TO ASSESSING FUTURE NUTRIENT AND SUSPENDED SEDIMENT REDUCTION STRATEGIES 2025 AND BEYOND.

INTEREST IN ADAPTATION ACTIVITIES

THE FOLLOWING ACTIVITIES ARE RANKED FROM MOST TO LEAST INTEREST:

1. SUPPORT EFFORTS TO IDENTIFY, REVIEW AND SYNTHESIZE METRICS FOR TARGETING NATURAL RESOURCE-RELATED ADAPTATION PROJECTS (E.G., MARSH RESTORATION, GREEN INFRASTRUCTURE) AND DETERMINING SUCCESS OF RESILIENCE STRATEGIES.
2. SUPPORT EFFORTS TO INCORPORATE EQUITABLE ADAPTATION CONSIDERATIONS IN CLIMATE RESILIENCE EFFORTS AROUND NATURAL INFRASTRUCTURE AND COMMUNITY RESILIENCE.
3. SUPPORT EFFORTS TO ASSIST PARTNERS IN IDENTIFYING PARTNERS AND NATURAL INFRASTRUCTURE PROJECTS (E.G., MARSH RESTORATION, LIVING SHORELINES, GREEN INFRASTRUCTURE) TO PURSUE INFLUX OF RESILIENCE FUNDING.
4. SUPPORT EFFORTS TO IDENTIFY APPROACHES TO TRACK CLIMATE ADAPTATION ACTIVITIES AND DEFINE RESILIENCE ENHANCEMENT OF AQUATIC ECOSYSTEMS - PLAN DISCUSSIONS ON HOW TO FEASIBLY TRACK RESILIENCE PROGRESS RELATED TO COASTAL IMPACTS (PERTAINS TO ADAPTATION OUTCOME).
5. ASSIST WITH PLANNING DISCUSSIONS ON MARSH MIGRATION TRADEOFFS RELATED TO LAND-USE AND FOREST LOSS/GHOST FORESTS.
6. REVIEW SOCIAL SCIENCE RECOMMENDATIONS AND PROVIDE ADVISORY SUPPORT ON HOW TO INTEGRATE THESE RECOMMENDATIONS IN CLIMATE RESILIENCE OUTREACH ACTIVITIES.
7. COORDINATE WITH THE CBP STRATEGIC ENGAGEMENT TEAM AND LOCAL GOVERNMENT ADVISORY COMMITTEE IN REVIEWING AND DETERMINING NEXT STEPS IN INTEGRATING RESILIENCE IN LOCAL PLANNING.
8. PROVIDE ADVISORY SUPPORT ON IDENTIFYING CLIMATE CHANGE RESEARCH NEEDS RELATED TO ADAPTING WATER QUALITY BEST MANAGEMENT PRACTICES (BMPS; E.G., DESIGN, REVISIONS TO NUTRIENT REDUCTION PERFORMANCE THRESHOLDS).