

BAHG 2025-2027 Triennial Work Plan Stakeholder Priorities

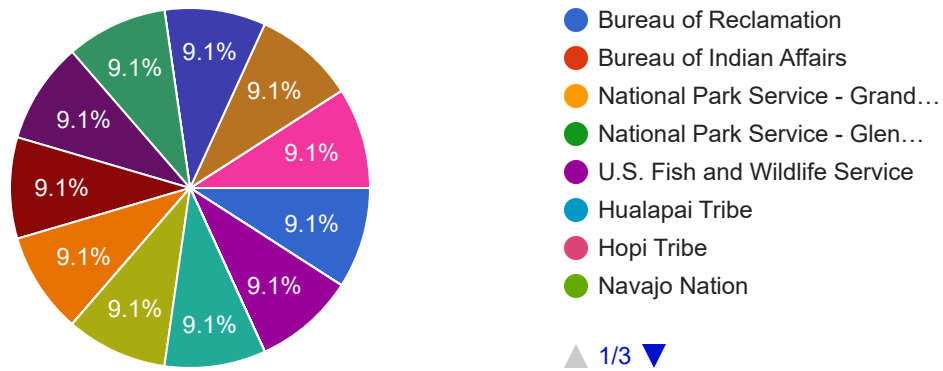
11 responses

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Who do you represent on the BAHG?

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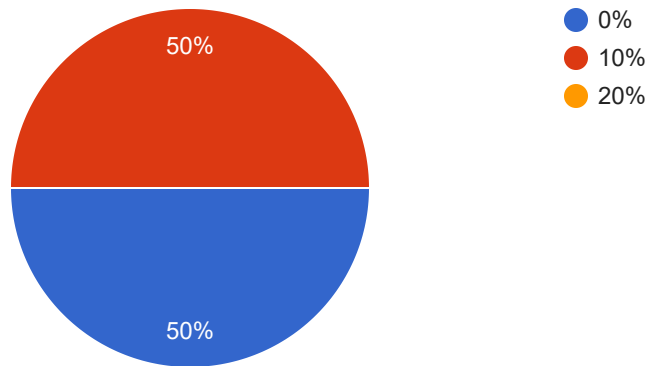
11 responses



What should GCMRC aim for (in percent over) in the next Budget Adjustment Update? ex. the April 23rd Proposed Adjustment was 12.5% over the \$10M budget

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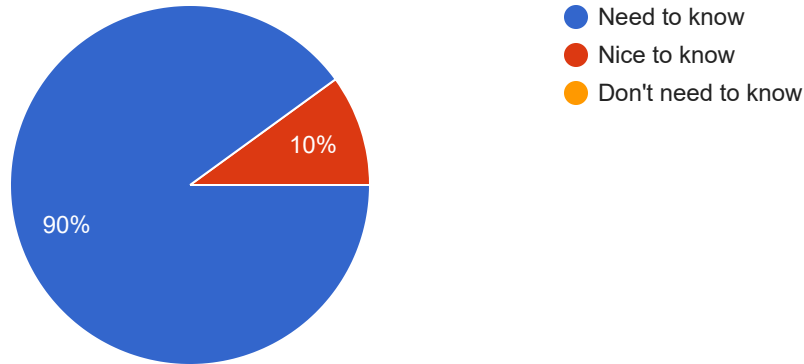
Project A: Streamflow, Water Quality, and Sediment Transportation



A.1: How necessary is Stream gaging and hydrologic analysis to better understanding progress in meeting LTEMP goals?



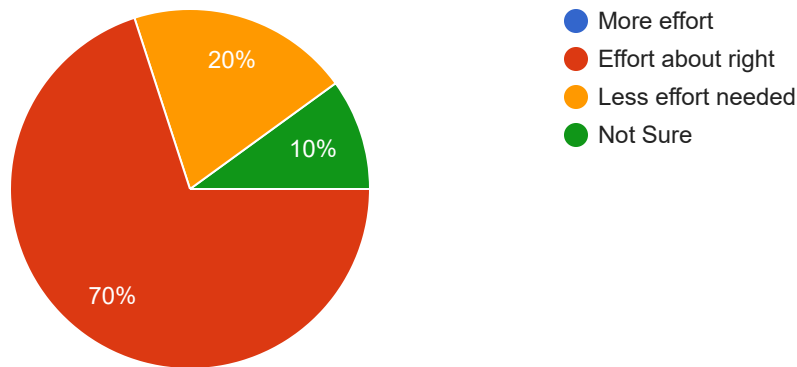
10 responses



A.1: Relative to the proposed effort, what is necessary to appropriately support Stream gaging and hydrologic analysis?



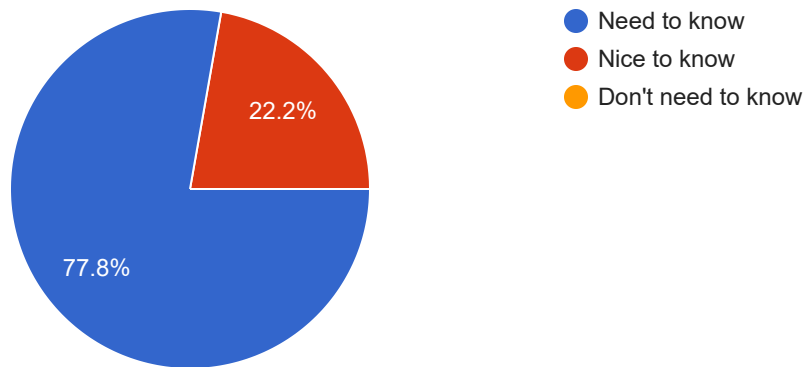
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A.2: How necessary is Continuous Water Quality parameters to better understanding progress in meeting LTEMP goals?



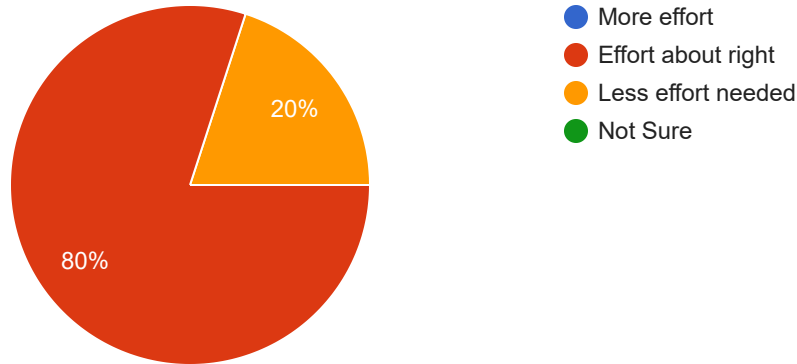
9 responses



A.2: Relative to the proposed effort, what is necessary to appropriately support Continuous Water Quality parameters?

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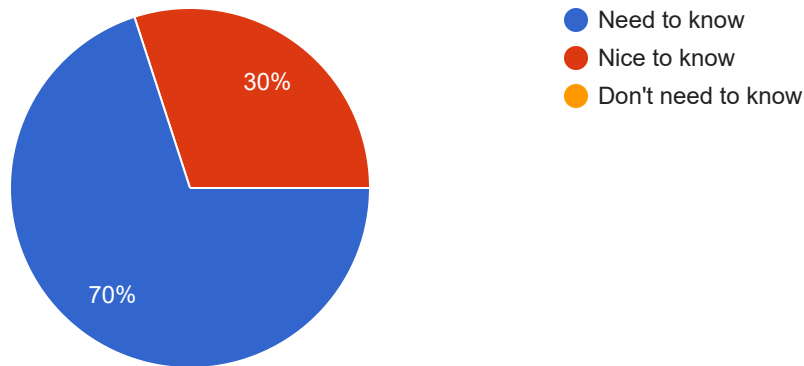
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A.3: How necessary is Sediment transport and budgeting to better understanding progress in meeting LTEMP goals?

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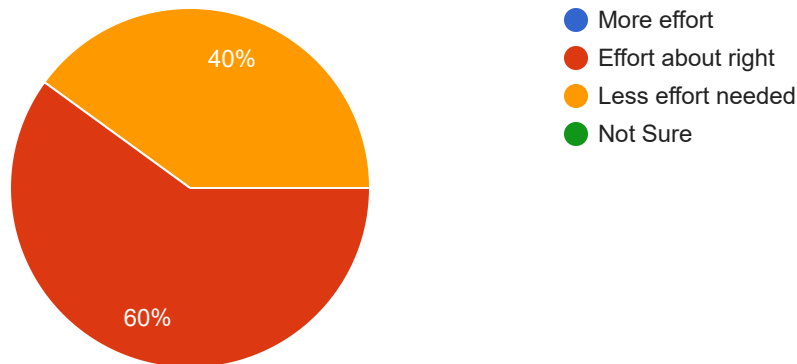
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A.3: Relative to the proposed effort, what is necessary to appropriately support Sediment transport and budgeting?

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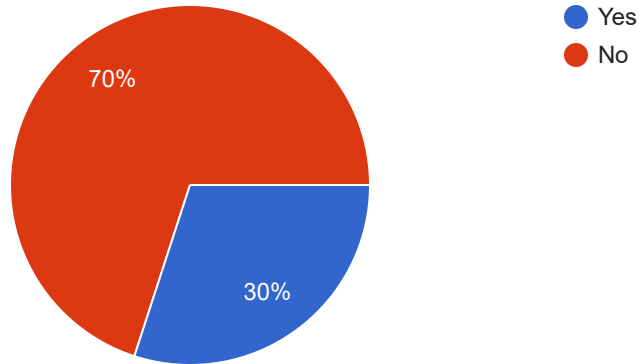
10 responses



Should the BAHG discuss this Project with GCMRC?



10 responses



Is there any additional feedback you would like to provide on Project A as presented in the Initial Draft and to the BAHG?

5 responses

Lots of \$ to other USGS cost centers. If budgets are this tight maybe we should consider sending less money to other USGS centers before we cut money from our own projects.

Reclamations water quality team said they could run the Sand Mass Balance model in Reclamation. How much savings could we get from taking that out of project A? Additionally, the long-term monitoring data is important for the program.

Project A work underpins almost all other efforts but if costs need to be cut, we suggest focusing less effort on publications and the upper LCR.

Please address previously submitted questions/feedback in next version of TWP.

There does not appear to be any way to make cuts to this project without losing extremely valuable information or impacting employees. The data collected in this project widely informs others.

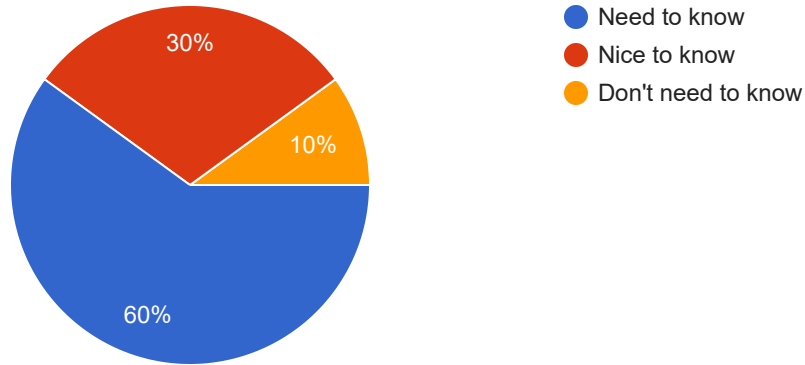
Project B: Sandbar and Sediment Storage Monitoring and Research





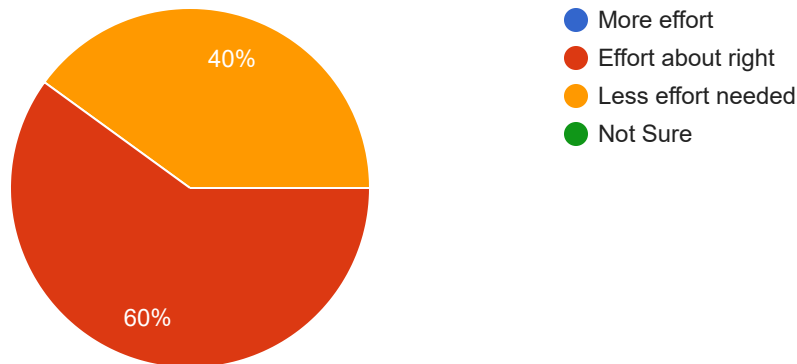
B.1: How necessary is Sandbar and campsite monitoring with topographic surveys and remote cameras to better understanding progress in meeting LTEMP goals?

10 responses



B.1: Relative to the proposed effort, what is necessary to appropriately support the Sandbar and campsite monitoring with topographic surveys and remote cameras?

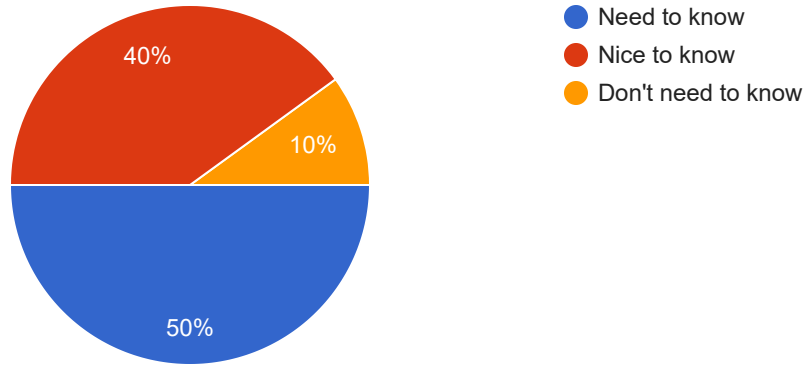
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B.2: How necessary is Bathymetric and Topographic Mapping for Monitoring Sediment Storage and Riverbed Dynamics to better understanding progress in meeting LTEMP goals?



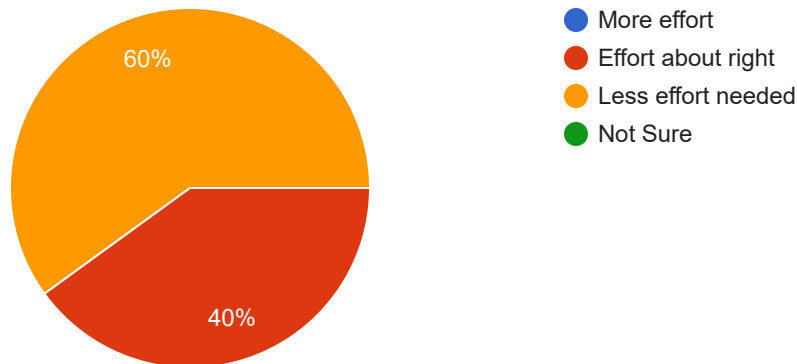
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B.2: Relative to the proposed effort, what is necessary to appropriately support Bathymetric and Topographic Mapping for Monitoring Sediment Storage and Riverbed Dynamics?



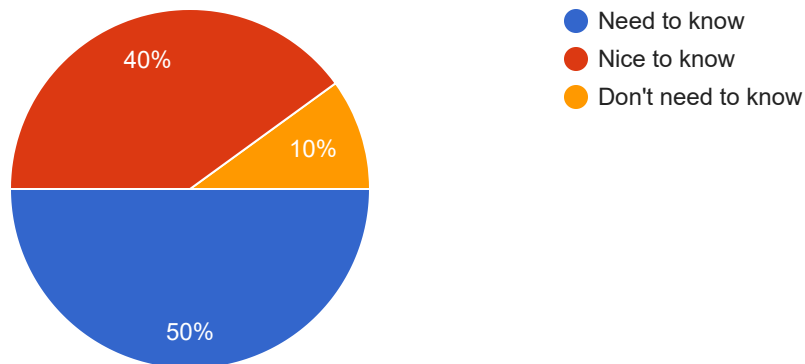
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B.3: How necessary is Control Network and Survey Support to better understanding progress in meeting LTEMP goals?



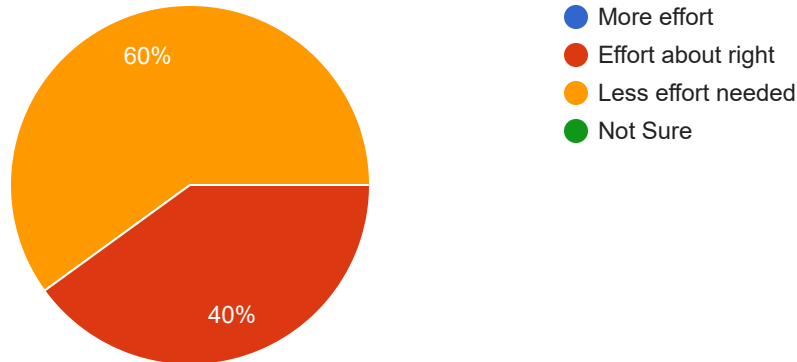
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B.3: Relative to the proposed effort, what is necessary to appropriately support Control Network and Survey Support?



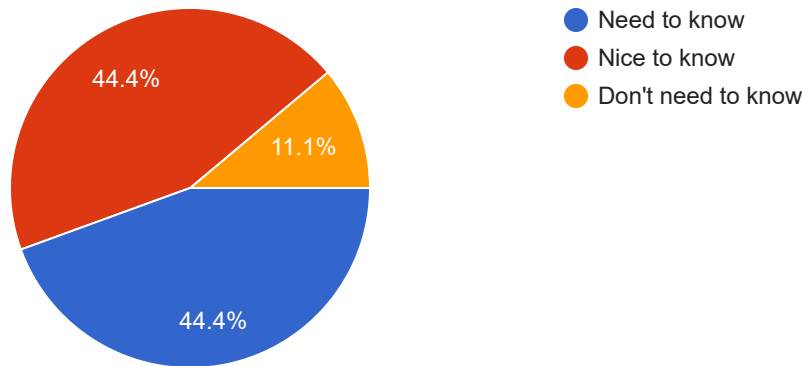
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B.4: How necessary is Streamflow, Sediment, and Sandbar Modeling to better understanding progress in meeting LTEMP goals?



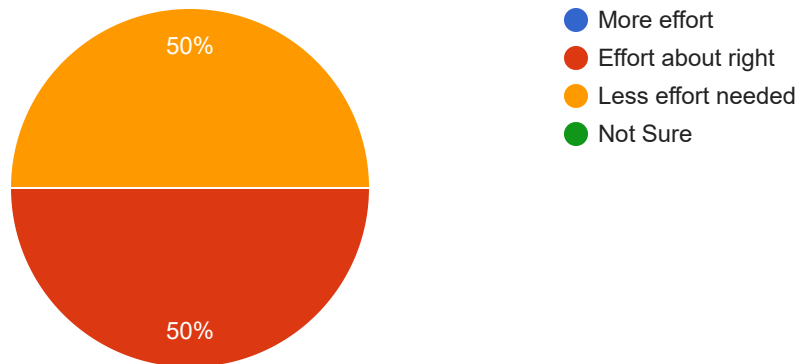
9 responses



B.4: Relative to the proposed effort, what is necessary to appropriately support Streamflow, Sediment, and Sandbar Modeling?



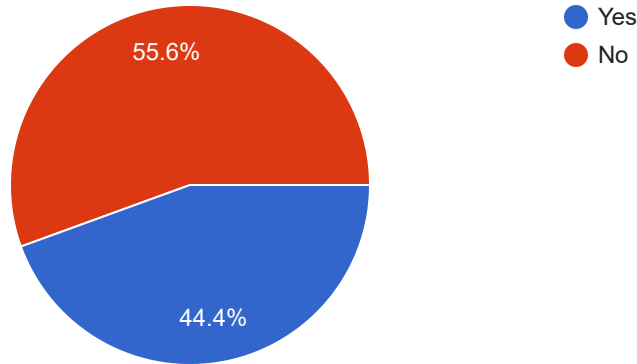
10 responses



Should the BAHG discuss this Project with GCMRC?



9 responses



Is there any additional feedback you would like to provide on Project B as presented in the Initial Draft?

5 responses

If No HFE occurs then B1 does not need to be funded, or how about funding in just 1 year anticipating an HFE will not occur every year. If no overflight occurs then B3 could also be scaled back.

B.3 is related to overflight which we propose not to do. Could there be cost savings associated with removing this element? B.4 is for exploring new modeling techniques which recommend get funded only at a partial amount due to budget constraints. B.1-B.3 need to maintain some of the long-term monitoring data collection.

B1 should cut Adopt-A-Beach program if data are used. B2 should cut riverbed substrate mapping in Glen Canyon and Western Grand Canyon riverbed response. B4 should cut major upgrades to existing models and focus on maintenance.

Please address previously submitted questions/feedback in next version of TWP. I am unclear what is entailed in Project B3, please provide additional details in next version of TWP. Please consider where cost savings can be derived in Project B.

The discussion should really involve BAHG and stakeholders discussing their ability to volunteer for projects such as this. If there is a shift from the cooperative agreements to involving more volunteers, this could help offset costs and also benefit the program through comradery and hands on experience for stakeholders to understand what scientists are talking about in the field.

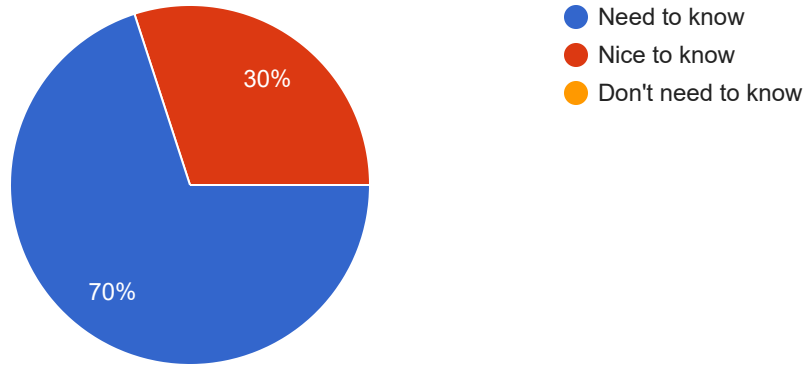
Project C: Riparian Vegetation Monitoring and Research



C.1: How necessary is Ground-based Riparian Vegetation and Monitoring to better understanding progress in meeting LTEMP goals?

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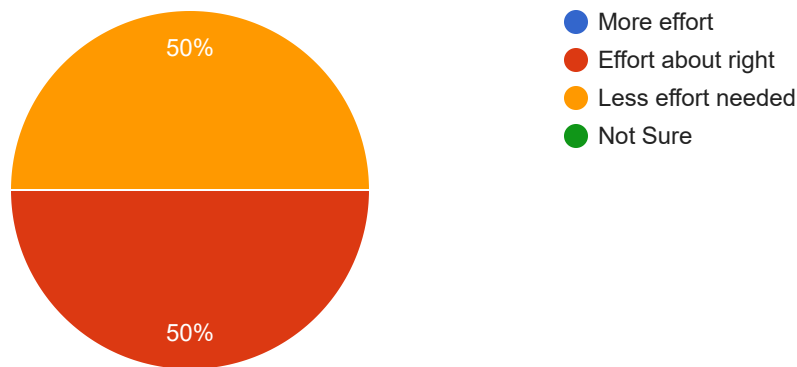
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C.1: Relative to the proposed effort, what is necessary to appropriately support Ground-based Riparian Vegetation and Monitoring?

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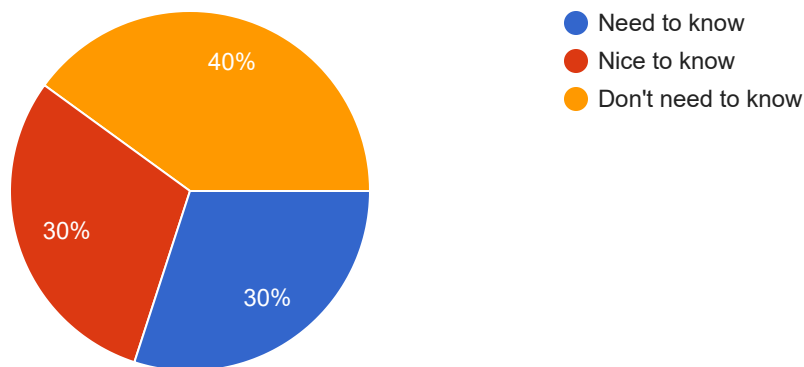
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C.2: How necessary is Mechanistic Experiments with Plant Species of Interest to better understanding progress in meeting LTEMP goals?

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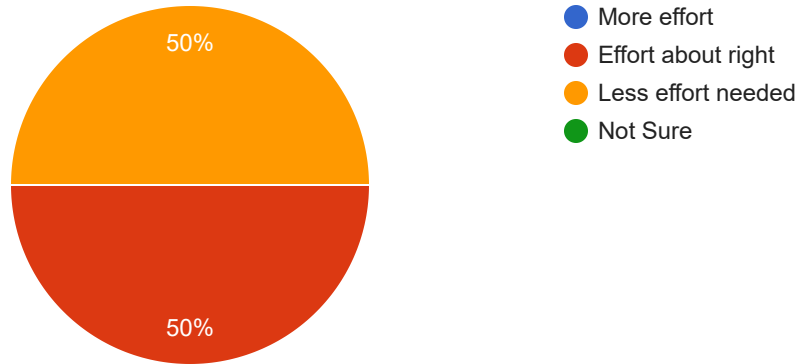
10 responses



C.2: Relative to the proposed effort, what is necessary to appropriately support Mechanistic Experiments with Plant Species of Interest?



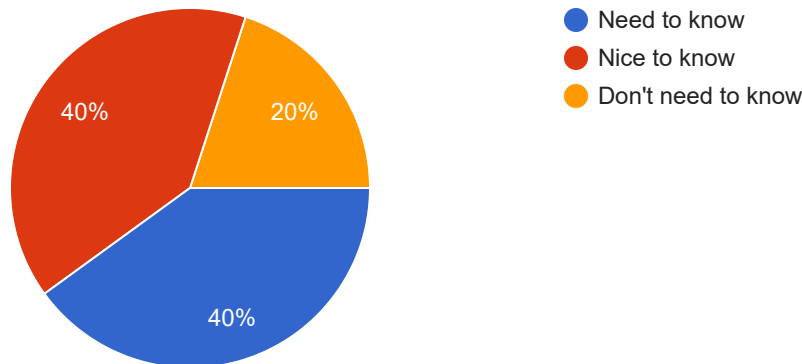
10 responses



C.3: How necessary is Predictive Modeling of Vegetation Responses to Dam Operations to better understanding progress in meeting LTEMP goals?



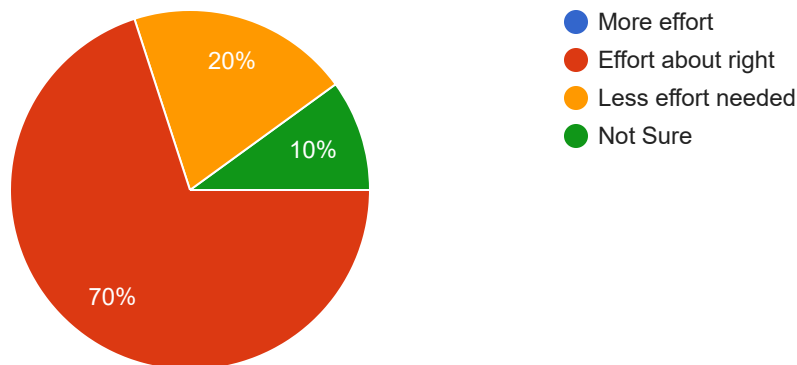
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C.3: Relative to the proposed effort, what is necessary to appropriately support Predictive Modeling of Vegetation Responses to Dam Operations?



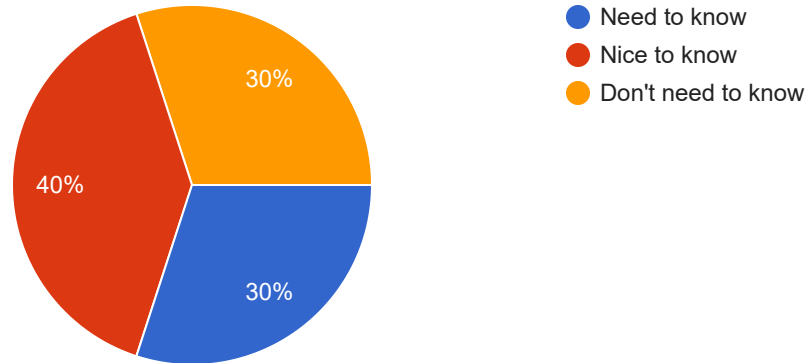
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C.4: How necessary is Biogeomorphic Linkages between Streamflow, Sediment Transport, and Vegetation Composition to better understanding progress in meeting LTEMP goals?



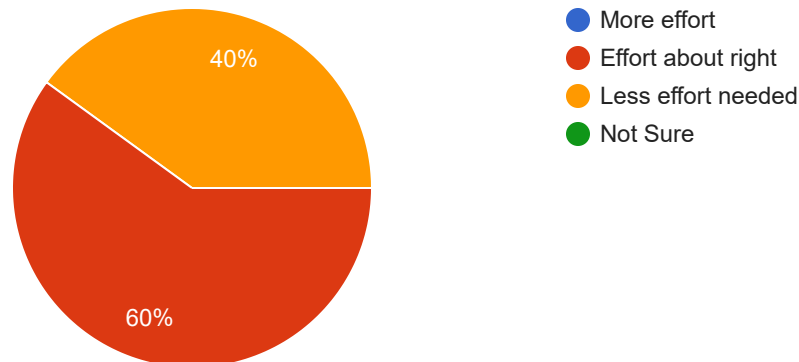
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C.4: Relative to the proposed effort, what is necessary to appropriately support Biogeomorphic Linkages between Streamflow, Sediment Transport, and Vegetation Composition?



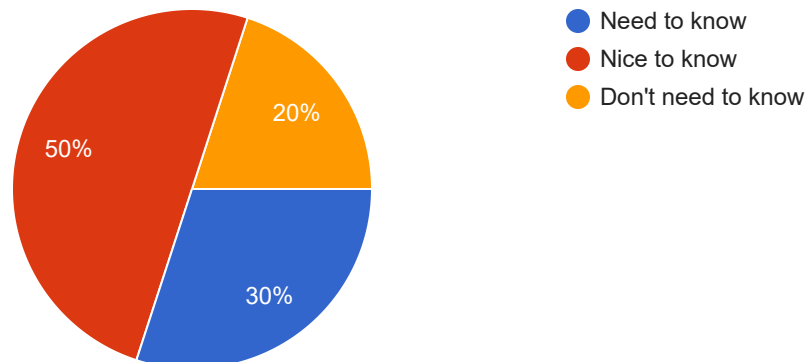
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C.5: How necessary is Vegetation Management Decision Support to better understanding progress in meeting LTEMP goals?



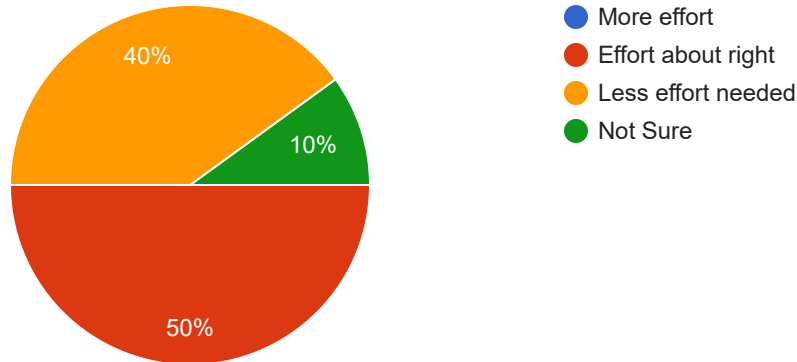
10 responses



C.5: Relative to the proposed effort, what is necessary to appropriately support Vegetation Management Decision Support?



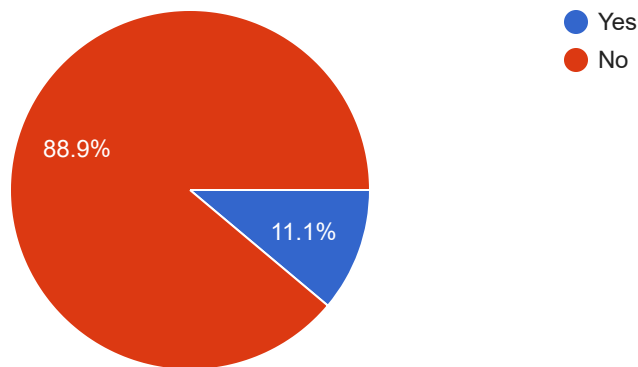
10 responses



Should the BAHG discuss this Project with GCMRC?



9 responses



Is there any additional feedback you would like to provide on Project C as presented in the Initial Draft?

4 responses

C.1 is a needed project but had a significant increase in budget. What is gained through the cost increase? Is it the wildlife portion? Can we reduce that and still keep the long-term monitoring data complete. C.2 is a nice study that we understand the benefits but may need to be pumped for more field base experiments proposed. If we can keep it in that would be great. C.4 is another cool proposal that would to be reduced in budget if it wants to be funded.

C2 and C4 should be cut entirely. C5 should cut most including Phragmites work.

Please address previously submitted questions/feedback in next version of TWP.

The proposed potential changes/cuts in the last BAHG call take care of previous concerns/thoughts

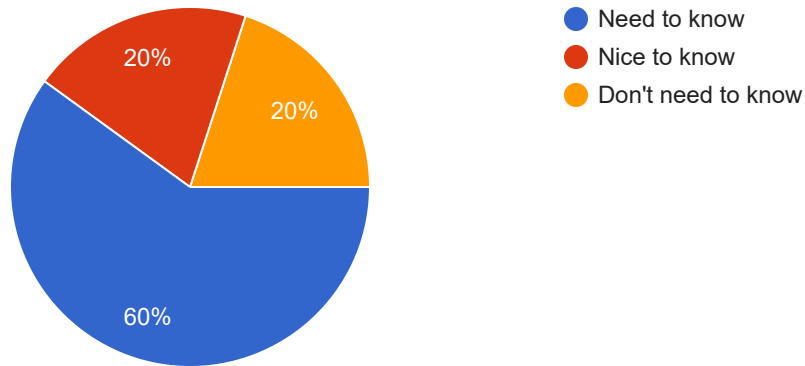


Project D: Effects of Dam Operations And Experimental Vegetation Management For Archaeological Sites

D.1: How necessary is Monitoring The Effects Of Dam Operations On Archaeological Sites to better understanding progress in meeting LTEMP goals?



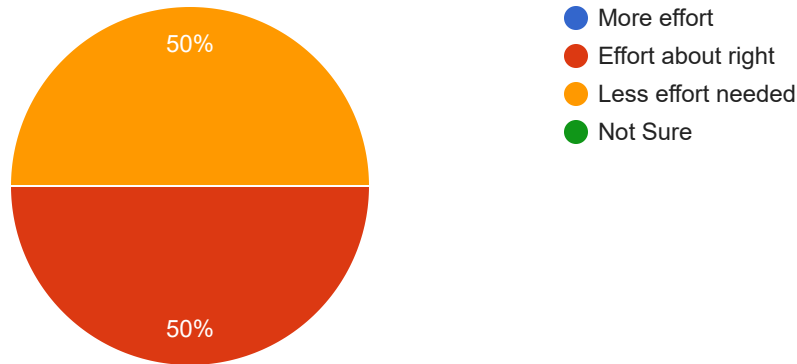
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D.1: Relative to the proposed effort, what is necessary to appropriately support Monitoring The Effects Of Dam Operations On Archaeological Sites?



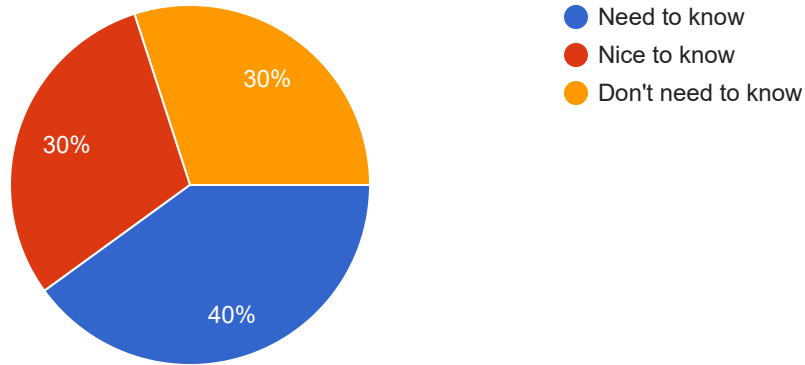
10 responses



D.2: How necessary is Monitoring Landscape-Scale Ecosystem Change With Repeat Photography to better understanding progress in meeting LTEMP goals?

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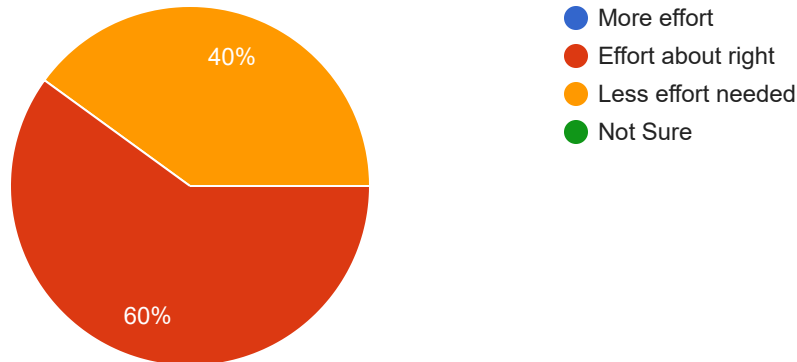
10 responses



D.2: Relative to the proposed effort, what is necessary to appropriately support Monitoring Landscape-Scale Ecosystem Change With Repeat Photography?

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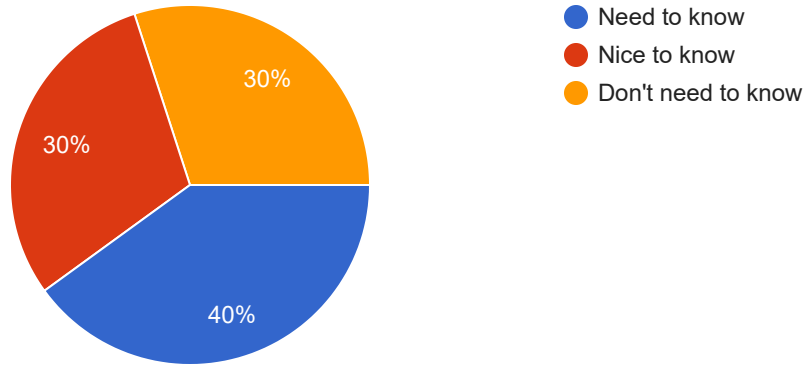
10 responses



D.3: How necessary is Evaluating Effects Of LTEMP Non-Flow Actions And Other Experimental Vegetation Management On Archaeological Sites to better understanding progress in meeting LTEMP goals?



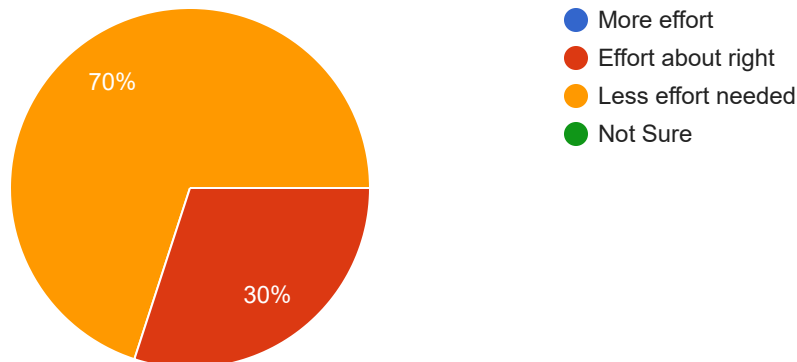
10 responses



D.3: Relative to the proposed effort, what is necessary to appropriately support Evaluating Effects Of LTEMP Non-Flow Actions And Other Experimental Vegetation Management On Archaeological Sites?



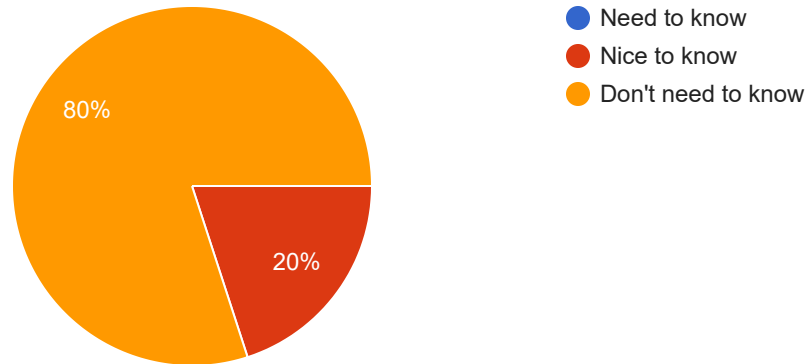
10 responses



D.4: How necessary is a Pilot Study To Evaluate Potential To Extract Cultural And Ecological Information From Colorado River Deposits Using eDNA And Pollen to better understanding progress in meeting LTEMP goals?



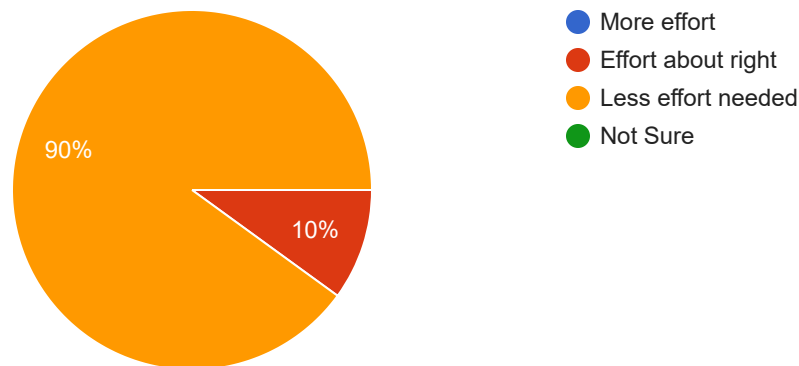
10 responses



D.4: Relative to the proposed effort, what is necessary to appropriately support the Pilot Study To Evaluate Potential To Extract Cultural And Ecological Information From Colorado River Deposits Using eDNA And Pollen?



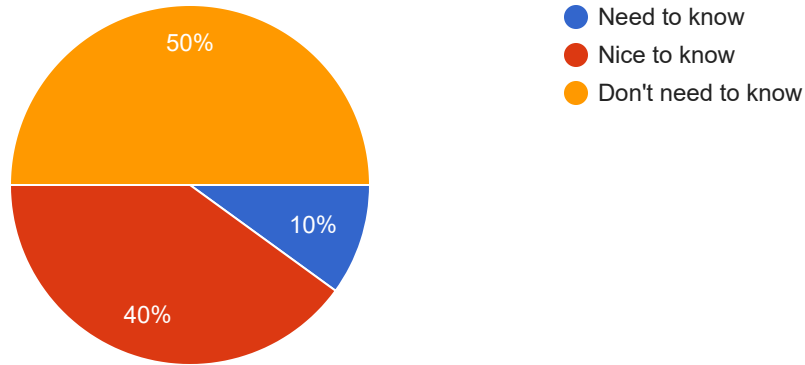
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D.5: How necessary is Monitoring Rock Art (Petroglyphs, Pictographs) With Photogrammetry And Lidar to better understanding progress in meeting LTEMP goals?



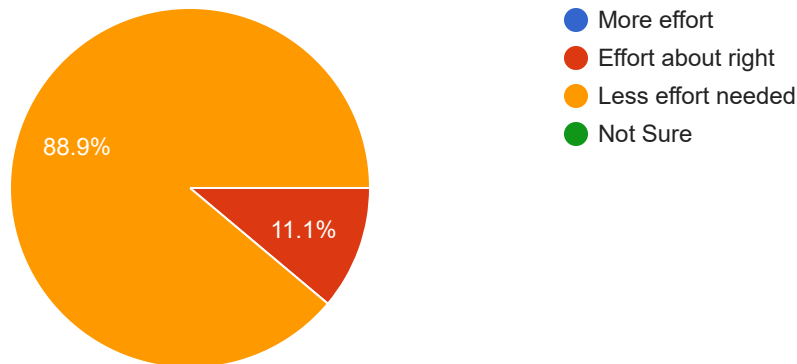
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D.5: Relative to the proposed effort, what is necessary to appropriately support Monitoring Rock Art (Petroglyphs, Pictographs) With Photogrammetry And Lidar?



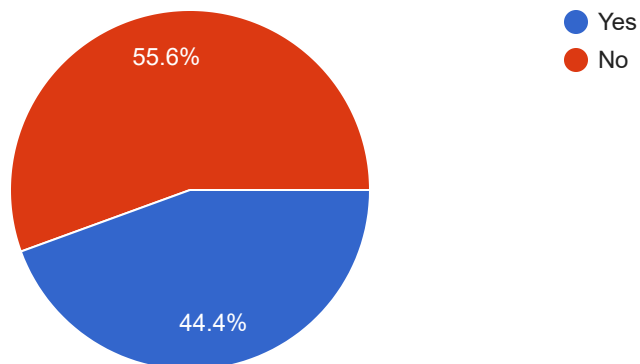
9 responses



Should the BAHG discuss this Project with GCMRC?



9 responses



Is there any additional feedback you would like to provide on Project D as presented in the Initial Draft?

5 responses

D.1-D.3 we need to keep the long-term monitoring data collection for this cycle. D.4. Interesting project. Could data be collected to be run at a later time when funds and/or inhouse lab become available? D.4 and D.5 we would like to see tribal groups are in agreement based on the LTEMP PA meeting. If we can get support from tribal we could possibly move over under tribal projects.

D1 sites should be monitored less frequently to reduce costs. D4 should be cut. D5 should be cut and moved to a future budget. Alternatively, if this is a critical project for the tribes, they should list it as a project on the BOR budget.

Please answer previously submitted questions in next version of TWP. Clarity is needed regarding tribal support for all Project D elements. If tribes have requests, please convey this to the BAHG.

Both D.4 and D.5 technology is very new and would be great to see funded outside of this budget. I would rather see dollars going towards proactively protecting this cultural treasure than determining how much damage has happened, or will happen. As cool as what the ancient pollen profile includes, I can't grasp how it helps further protect resources in such a way that it calls for prioritization in a budget that needs to be trimmed.

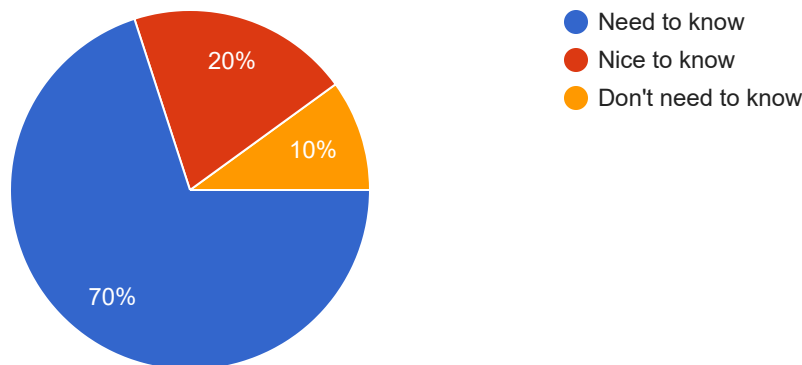
If reclamation is able to undertake some components of D under their side of the budget, this could benefit the project and overall budget. Discussion should include a deeper dive into Rec's budget and if/how they might be able to assist with some of these elements.

Project E: Controls on Ecosystem Productivity: Nutrients, Flow, and Temperature

E.1: How necessary is Phosphorus Budgeting in the Colorado River to better understanding progress in meeting LTEMP goals?



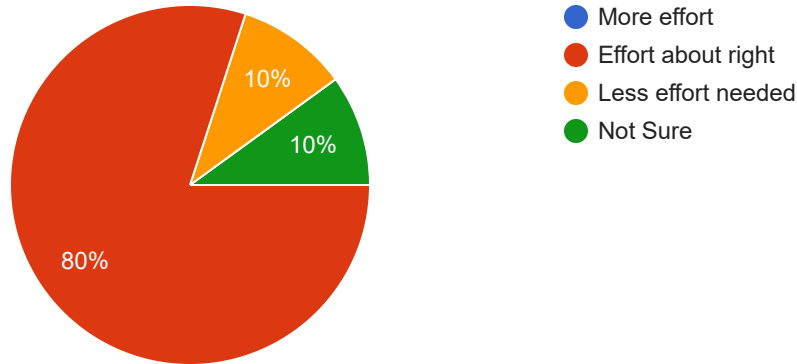
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E.1: Relative to the proposed effort, what is necessary to appropriately support Phosphorus Budgeting in the Colorado River?



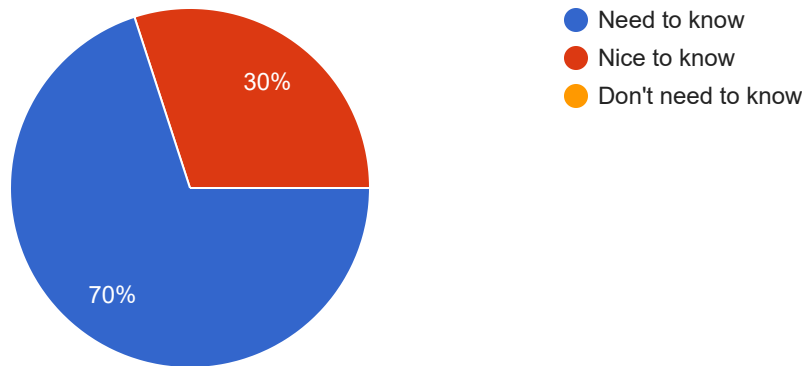
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E.2: How necessary is Rates and Composition of Primary Producers in the Colorado River to better understanding progress in meeting LTEMP goals?



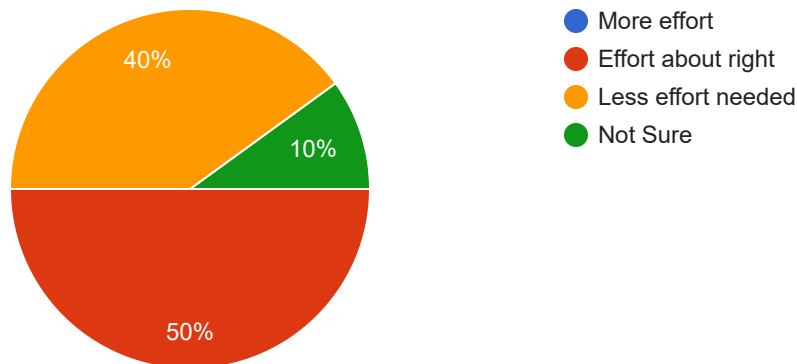
10 responses



E.2: Relative to the proposed effort, what is necessary to appropriately support Rates and Composition of Primary Producers in the Colorado River?



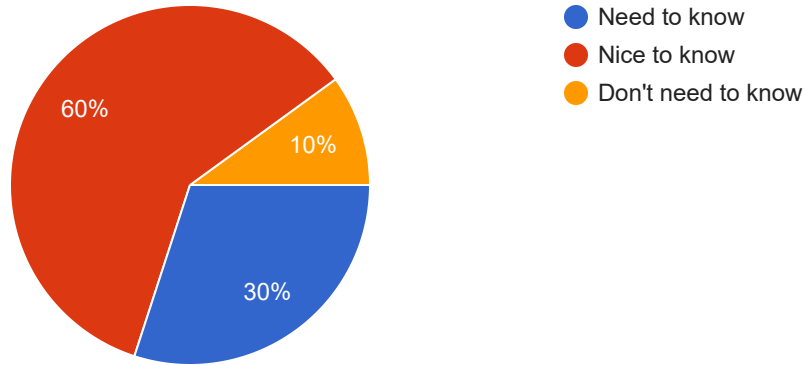
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E.3: How necessary is Understanding the Energetic Basis of the Food Web in Western Grand Canyon to better understanding progress in meeting LTEMP goals?



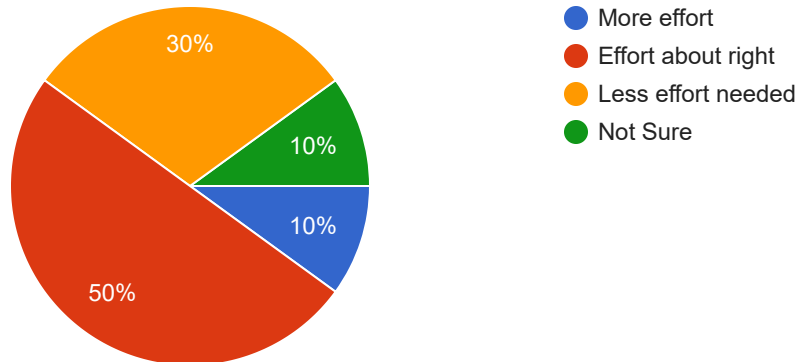
10 responses



E.3: Relative to the proposed effort, what is necessary to appropriately support Understanding the Energetic Basis of the Food Web in Western Grand Canyon?



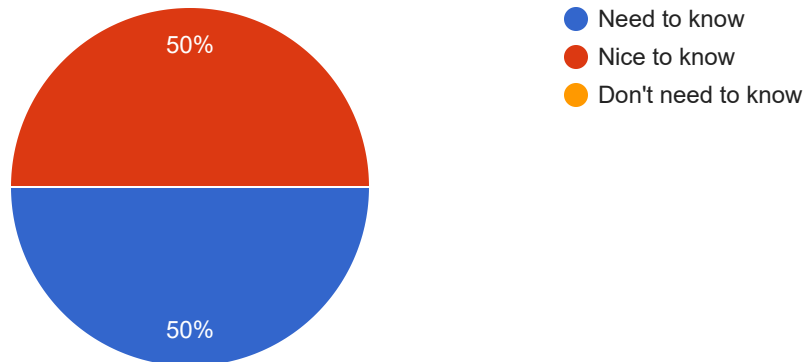
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E.4: How necessary is Linking Ecosystem Metabolism to Higher Trophic Levels to better understanding progress in meeting LTEMP goals?



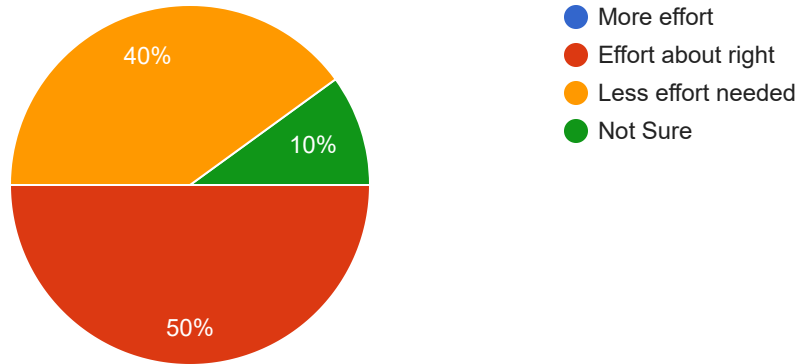
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E.4: Relative to the proposed effort, what is necessary to appropriately support Linking Ecosystem Metabolism to Higher Trophic Levels?

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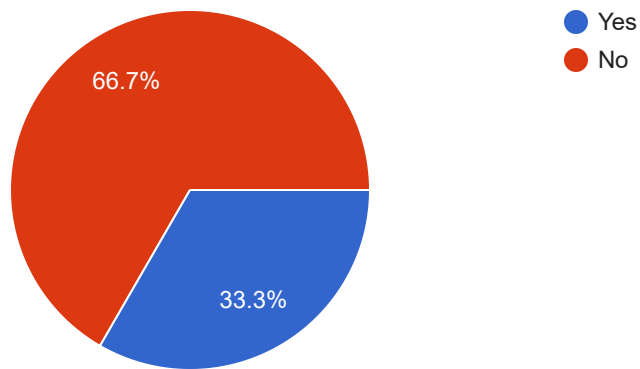
10 responses



Should the BAHG discuss this Project with GCMRC?

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9 responses



Is there any additional feedback you would like to provide on Project E as presented in the Initial Draft?

5 responses

E.1-E.2 we need to build long-term monitoring data to evaluation changes to the system. E.3 and E.4 are really important and we would like to see scaled back versions on this in order to get everything funded.

E2 should cut in-situ chamber experiments, ML veg mapping, and eDNA surveys

Please answer previously submitted questions in next version of TWP. Request for increased effort is based on proposal to defund Project E3.

Phosphorus is difficult to control and therefore manage in this system to use to protect a resource. It would be great to understand how it is impacting the success of the food web. Other funding availability might highlight a need to include this in the budget in the future

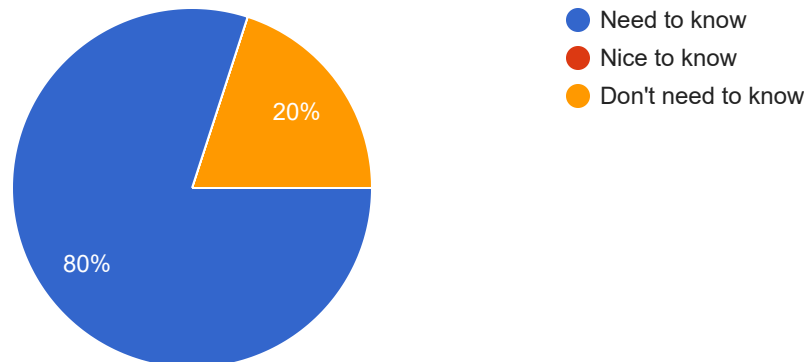
Due to the discussion in the last BAHG call, may be worth re-discussing if folks have any other questions. the potential scale backs proposed in E1 and E2 seem useful. For E4, while this is still super important, since most of its costs come from salary, maybe there is possibility for those employees who may overlap other projects that may require more effort (such as I), to have salaries covered there more so when possible?

Project F: Aquatic Invertebrate Ecology

F.1: How necessary is Aquatic Invertebrate Monitoring in Marble and Grand Canyons to better understanding progress in meeting LTEMP goals?

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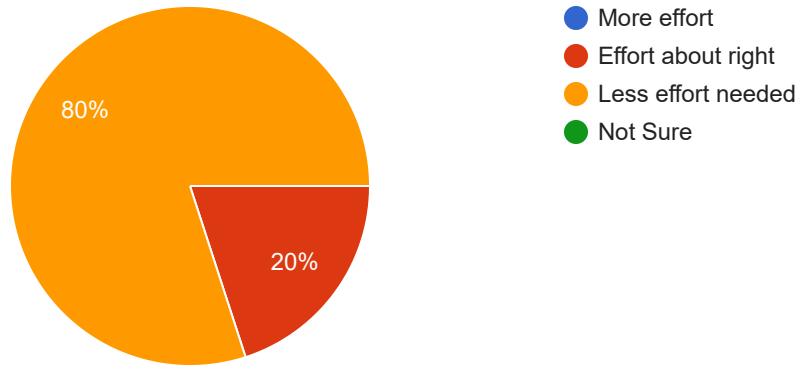
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F.1: Relative to the proposed effort, what is necessary to appropriately support Aquatic Invertebrate Monitoring in Marble and Grand Canyons?



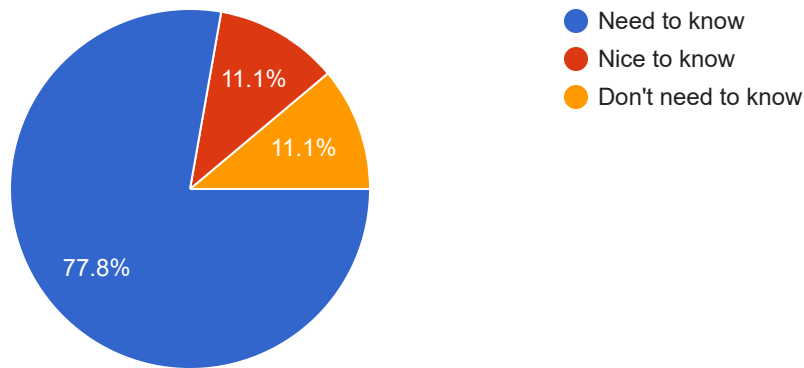
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F.2: How necessary is Aquatic Invertebrate Monitoring in Glen Canyon to better understanding progress in meeting LTEMP goals?



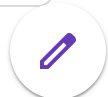
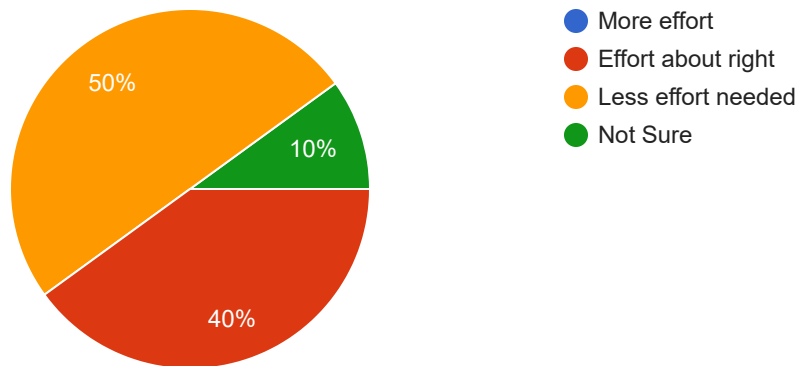
9 responses



F.2: Relative to the proposed effort, what is necessary to appropriately support Aquatic Invertebrate Monitoring in Glen Canyon?



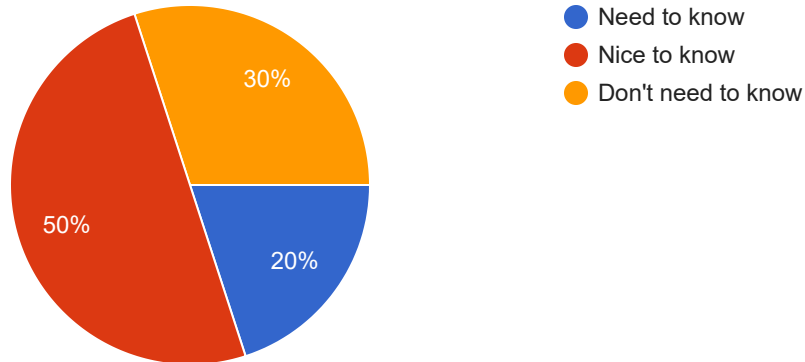
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F.3: How necessary is Aquatic Invertebrate Monitoring of Grand Canyon Tributaries to better understanding progress in meeting LTEMP goals?

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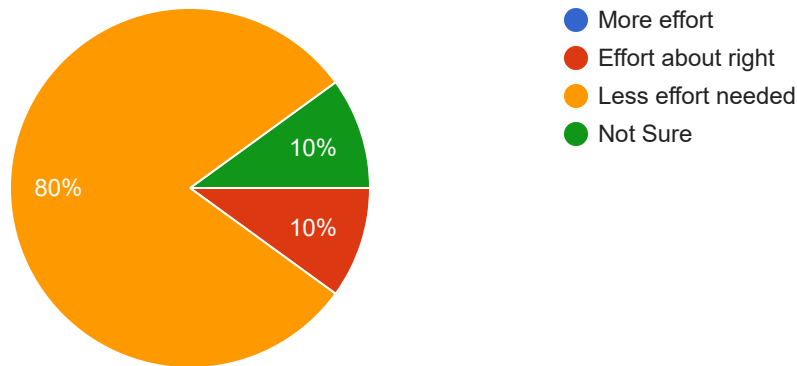
10 responses



F.3: Relative to the proposed effort, what is necessary to appropriately support Aquatic Invertebrate Monitoring of Grand Canyon Tributaries?

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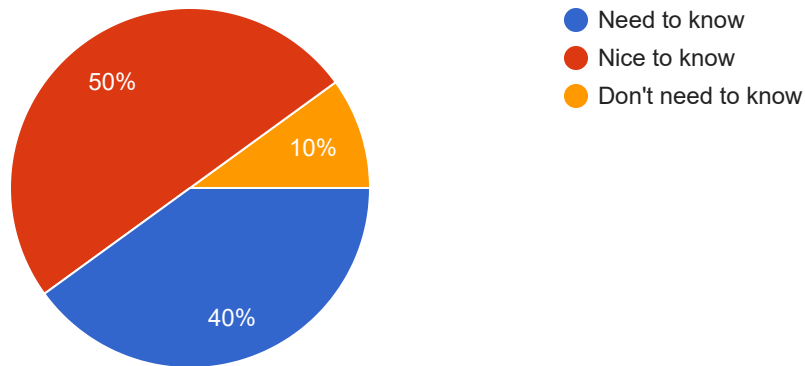
10 responses



F.4: How necessary are Fish Diet Studies to better understanding progress in meeting LTEMP goals?

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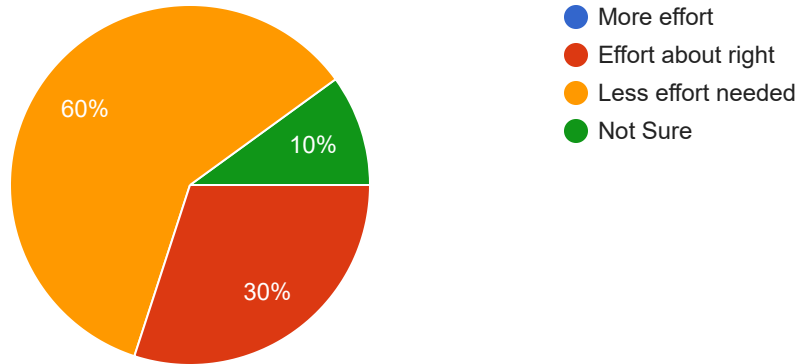
10 responses



F.4: Relative to the proposed effort, what is necessary to appropriately support Fish Diet Studies?



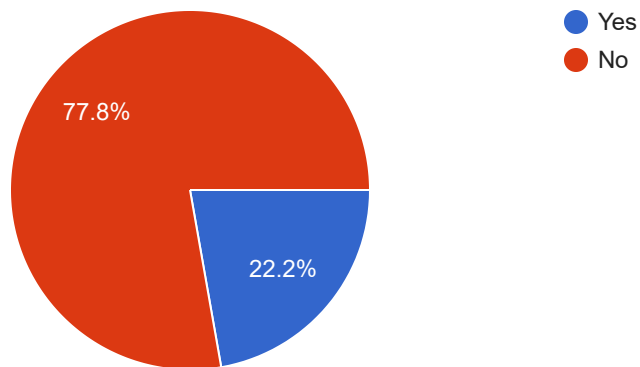
10 responses



Should the BAHG discuss this Project with GCMRC?



9 responses



Is there any additional feedback you would like to provide on Project E as presented in the Initial Draft?

5 responses

F.1 - F.2 How much can we reduce in samples to still have confidence? F.3 Could we collect the samples and store samples until funds all for analysis? If we can reduce sampling effort in F.1 and/or F.2 could we put the effort toward F.4?

F1 seems excessively expensive and bat monitoring should be cut. F3 should be cut entirely. F4 DNA analysis should be cut.

Please discuss previously submitted questions in next version of TWP.

Maybe more discussion when TK is available as well, Fish diet studies seem important for long-term monitoring on an ecosystem level

The bat work in Project Element F.1 should end. Anya published her findings on this project and it is not clear why this project should continue. Data collection may be fun and interesting for the citizen scientist community and it may not cost a lot, but it is taking someone's time to process and report and that means that person is not working on something of higher importance.

Drift collections in Marble and Grand Canyons mentioned in Project F.1 and sticky traps mentioned in F.2, to our knowledge, are no longer being presented and has never contributed to a publication. If the data is not important to present or to publish then it probably isn't important enough to collect. If there is too much data to process, and that is why there hasn't been any reporting or publication, then they probably ought to stop collecting the data and process what they have and then report or publish.

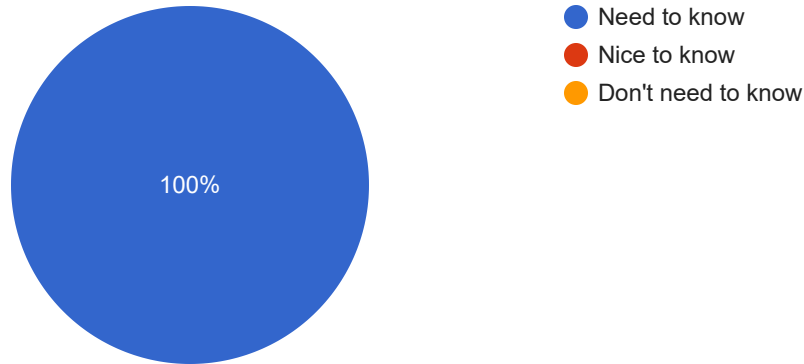
Project G: Humpback Chub Population Dynamics Throughout The Colorado River Ecosystem



G.1: How necessary is Humpback Chub Population Monitoring to better understanding progress in meeting LTEMP goals?



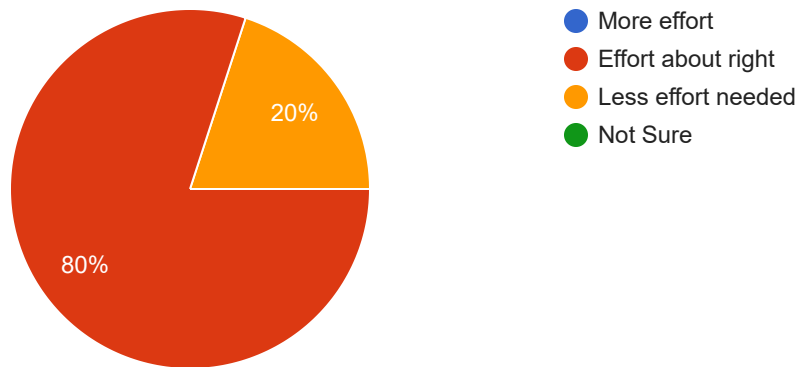
10 responses



G.1: Relative to the proposed effort, what is necessary to appropriately support Humpback Chub Population Monitoring?



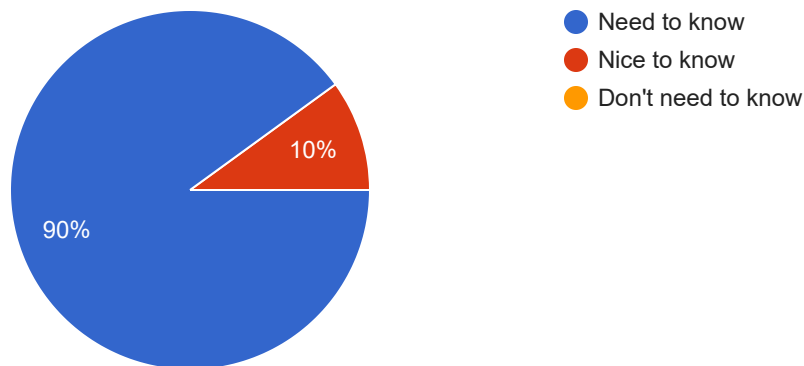
10 responses



G.2: How necessary are Annual Spring/Fall Abundance Estimates Of Humpback Chub in the Lower 13.6 km of the LCR to better understanding progress in meeting LTEMP goals?



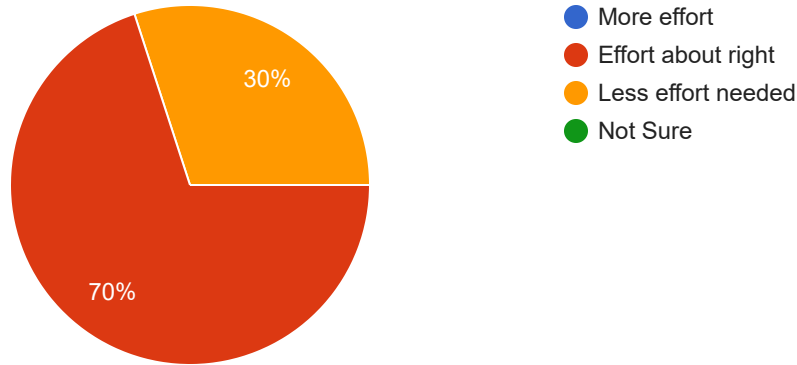
10 responses



G.2: Relative to the proposed effort, what is necessary to appropriately support Annual Spring/Fall Abundance Estimates Of Humpback Chub in the Lower 13.6 km of the LCR?



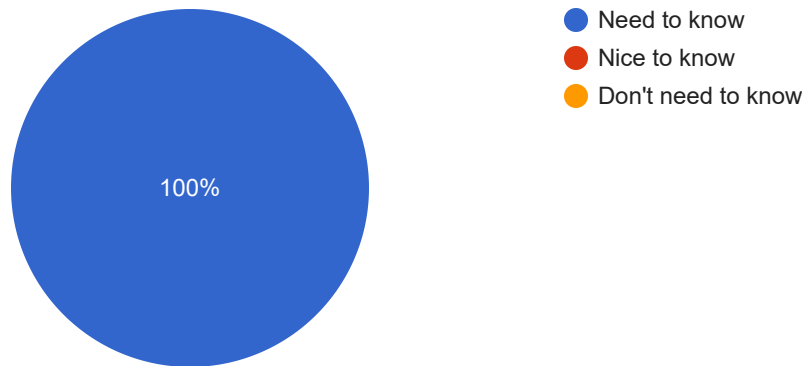
10 responses



G.3: How necessary is Juvenile Chub Monitoring (JCM) near the LCR Confluence to better understanding progress in meeting LTEMP goals?



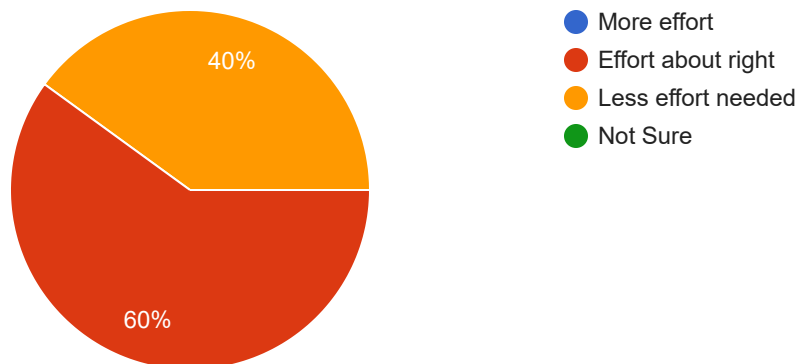
10 responses



G.3: Relative to the proposed effort, what is necessary to appropriately support Juvenile Chub Monitoring (JCM) near the LCR Confluence?



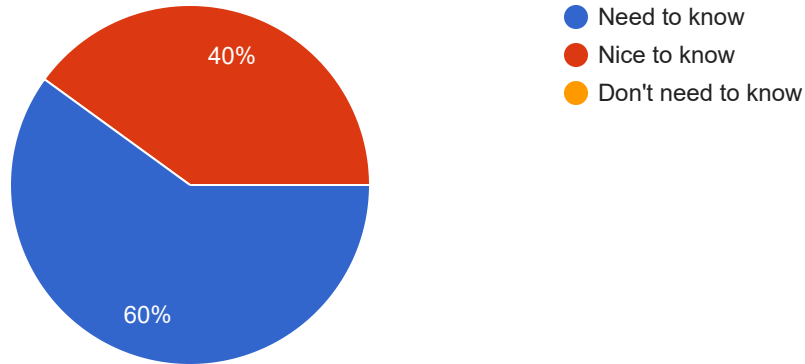
10 responses



G.4: How necessary is Remote PIT Tag Array Monitoring in the LCR to better understanding progress in meeting LTEMP goals?

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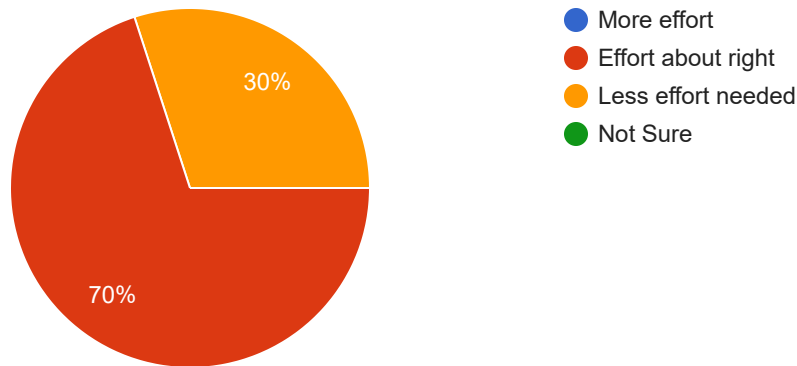
10 responses



G.4: Relative to the proposed effort, what is necessary to appropriately support Remote PIT Tag Array Monitoring in the LCR?

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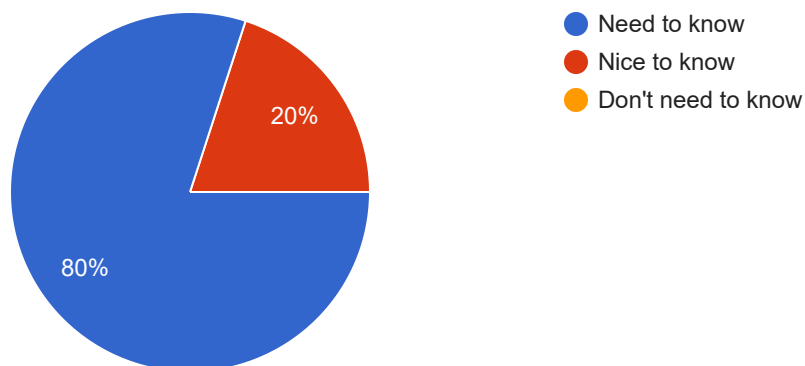
10 responses



G.5: How necessary is Monitoring Humpback Chub Aggregation Relative Abundance and Distribution to better understanding progress in meeting LTEMP goals?

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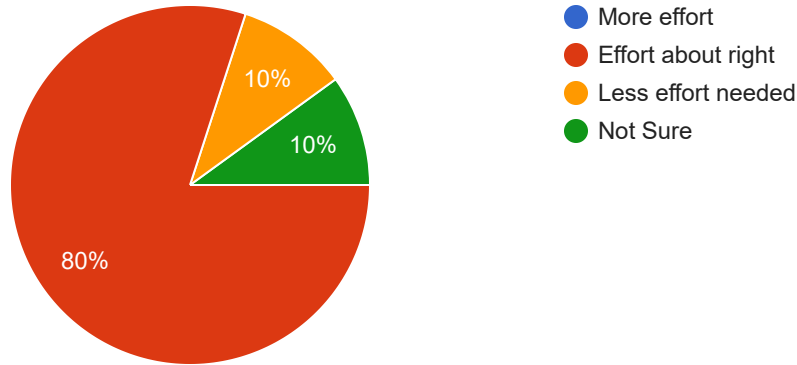
10 responses



G.5: Relative to the proposed effort, what is necessary to appropriately support Monitoring Humpback Chub Aggregation Relative Abundance and Distribution?



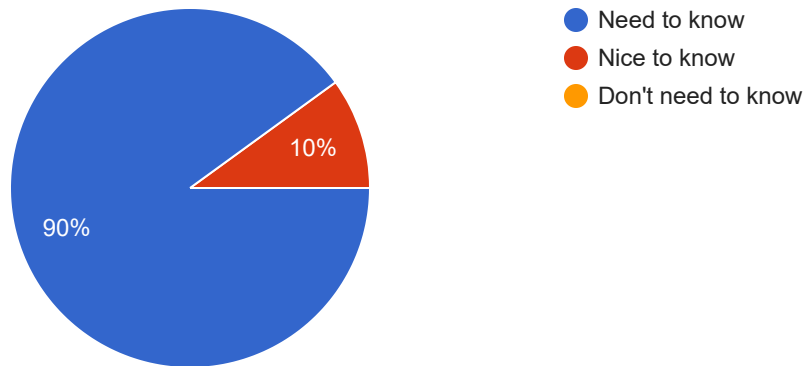
10 responses



G.6: How necessary is Juvenile Humpback Chub Monitoring – West to better understanding progress in meeting LTEMP goals?



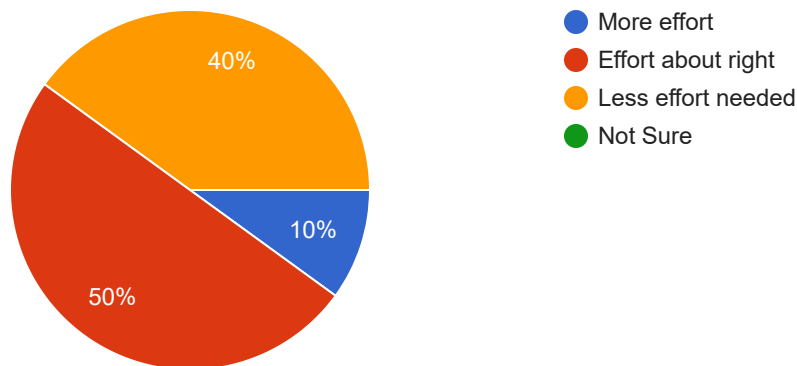
10 responses



G.6: Relative to the proposed effort, what is necessary to appropriately support Juvenile Humpback Chub Monitoring – West?



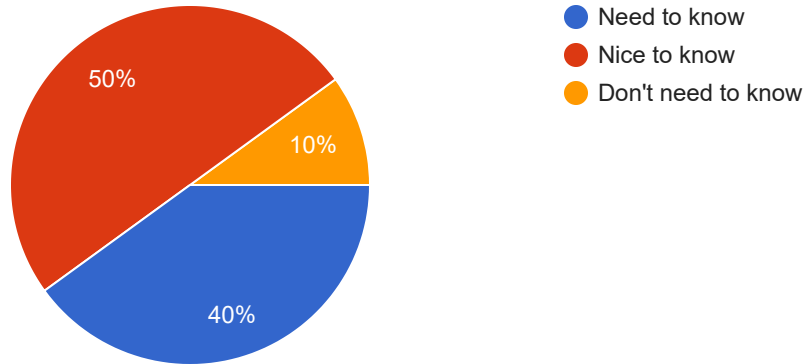
10 responses



G.7: How necessary are Chute Falls Translocations to better understanding progress in meeting LTEMP goals?

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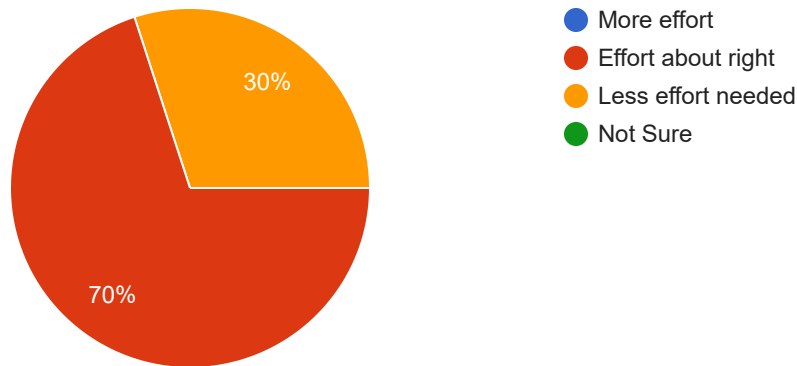
10 responses



G.7: Relative to the proposed effort, what is necessary to appropriately support Chute Falls Translocations?

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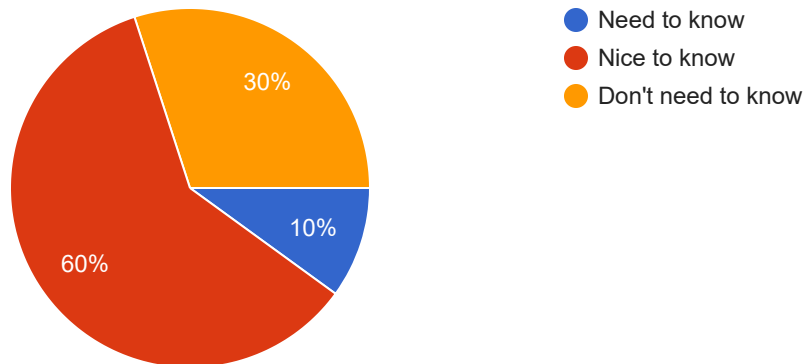
10 responses



G.8: How necessary is Sampling of springs in the upper LCR to better understanding progress in meeting LTEMP goals?

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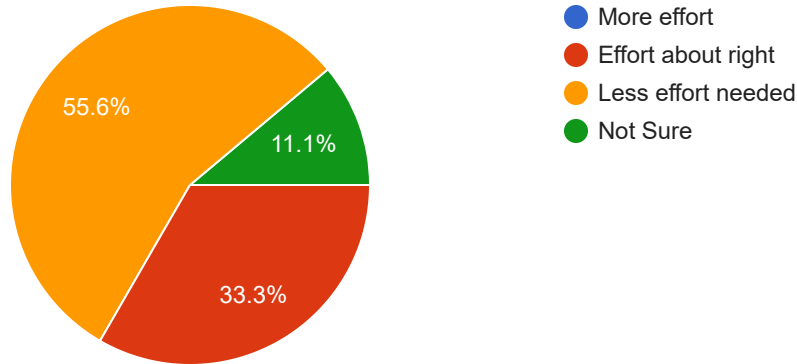
10 responses



G.8: Relative to the proposed effort, what is necessary to appropriately support Sampling of springs in the upper LCR?



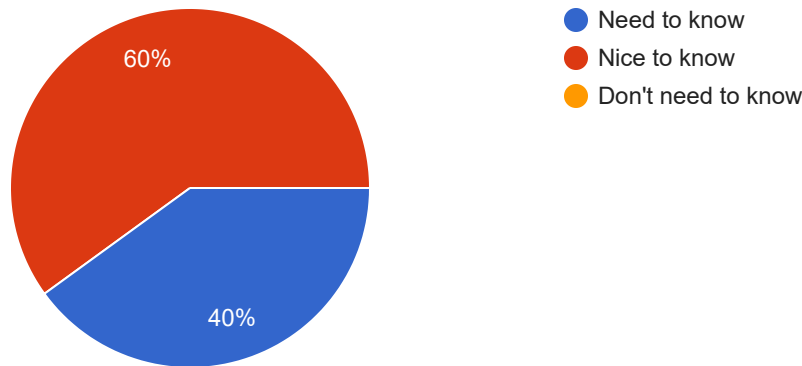
9 responses



G.9: How necessary is Movement in western Grand Canyon from system-wide antenna monitoring to better understanding progress in meeting LTEMP goals?



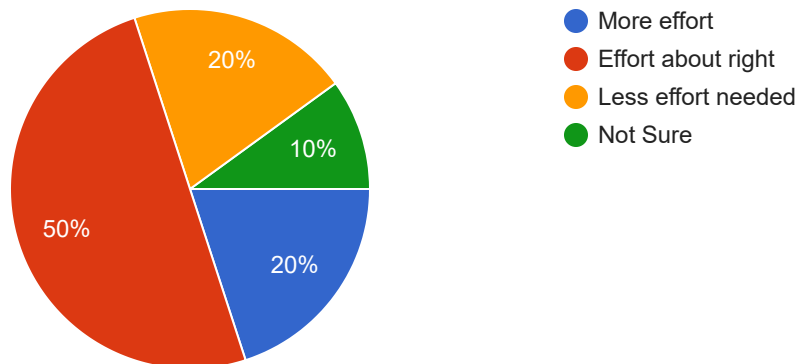
10 responses



G.9: Relative to the proposed effort, what is necessary to appropriately support Movement in western Grand Canyon from system-wide antenna monitoring?



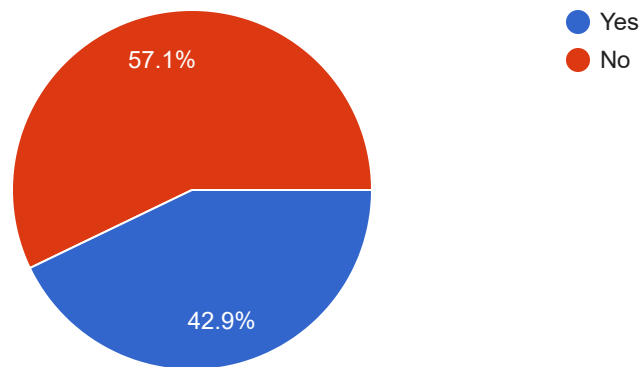
10 responses



Should the BAHG discuss this Project with GCMRC?



7 responses

Is there any additional feedback you would like to provide on Project G as presented in the Initial Draft?

5 responses

Regarding G.5,6,9: effort in western Grand Canyon chub population needs to address critical information gaps (i.e. where chub spawn, rear, grow at different life stages) prior to the Post-2026 operation guidelines.

G.1-G.4 Need for compliance but is there a way to reduce effort (ex, year 1 and year 3 Mark/Recapture and year 2 passive population estimate)? G.5 concerns about adding a seining boat. Possibly find other funds for the seining boat addition. G.6 will be important for the future BO. G.7 needs to be removed from GCMRC side of the budget. We need to find another way to fund or just not fund this round. G.8 Is this within the jurisdiction of the GCDAMP? Need to find another way to fund G.8 outside of GCMRC funds. G.9 is important to the future and we would like to keep as much as possible. It could help reduce effort in the future.

G2 seems excessively expensive. Lots of projects need to be reduced in costs but we aren't sure how is best to accomplish this.

Please consider ways to retain some element of Project G8.

Discuss if there may be further ways to cut costs to the JCM or more expensive trips without ruining data quality (I can't remember if this was discussed). If not, then not necessary.

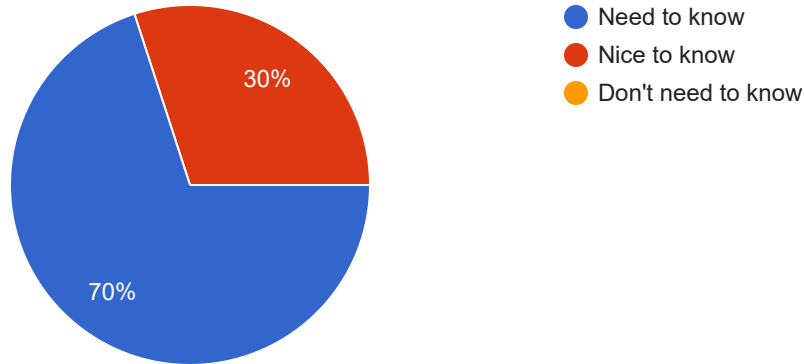
Project H: Salmonid Research and Monitoring Project



H.1: How necessary is Trout Monitoring in Glen Canyon to better understanding progress in meeting LTEMP goals?



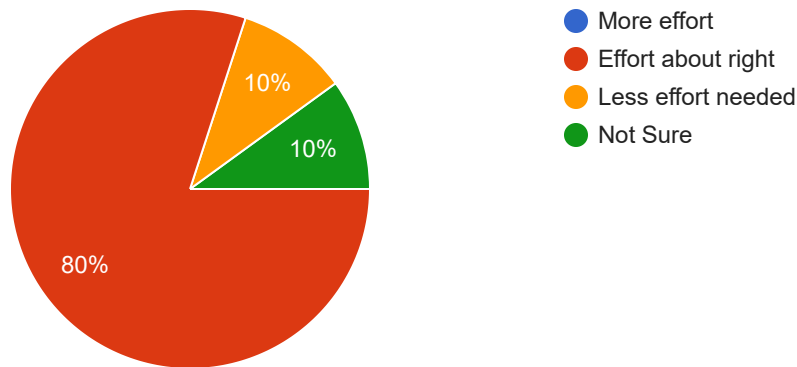
10 responses



H.1: Relative to the proposed effort, what is necessary to appropriately support Trout Monitoring in Glen Canyon?



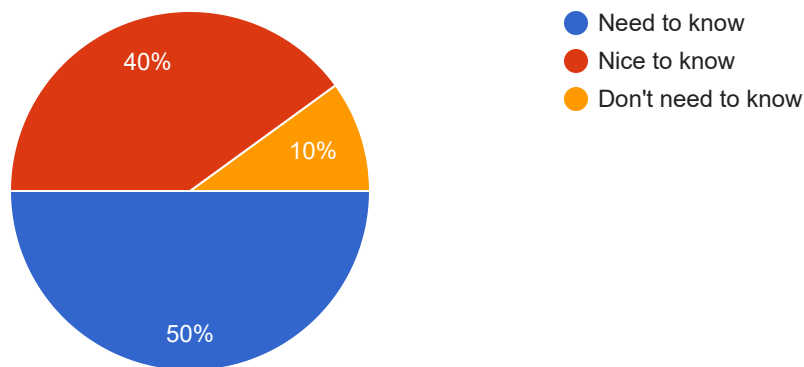
10 responses



H.2: How necessary is Trout Reproductive and Growth Dynamics Fieldwork to better understanding progress in meeting LTEMP goals?



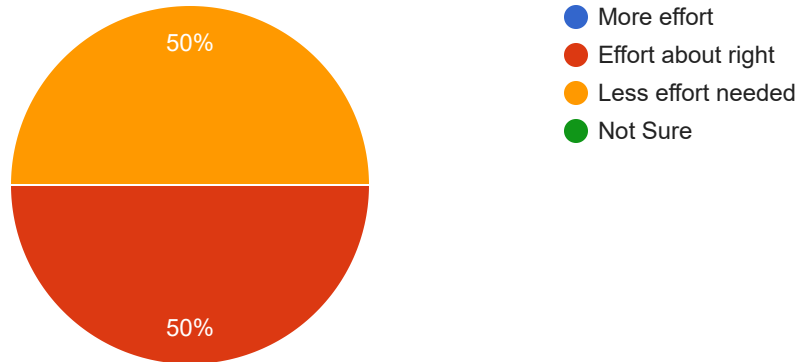
10 responses



H.2: Relative to the proposed effort, what is necessary to appropriately support Trout Reproductive and Growth Dynamics Fieldwork?



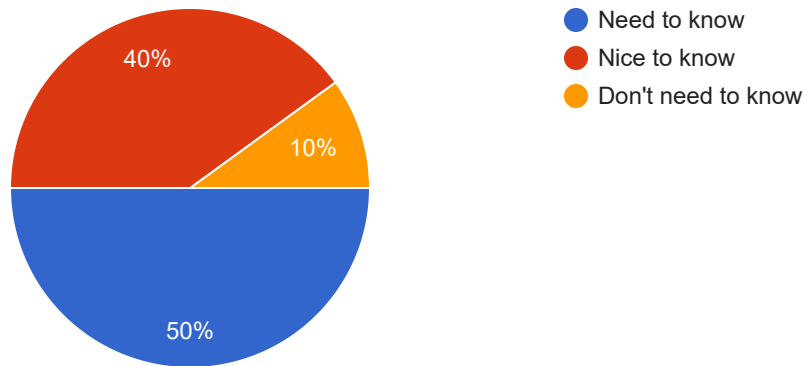
10 responses



H.3: How necessary is Salmonid Modeling to better understanding progress in meeting LTEMP goals?



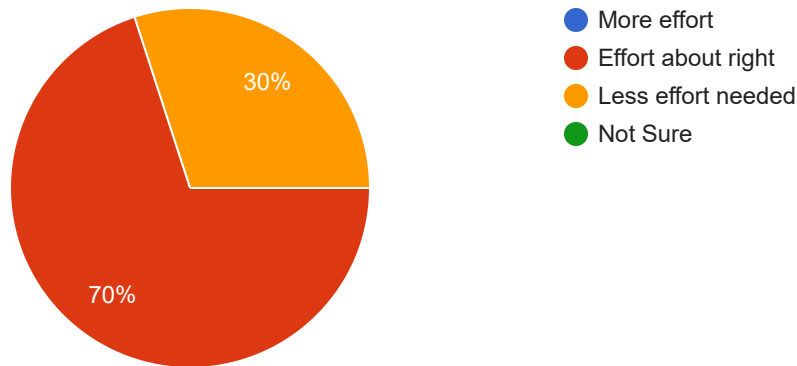
10 responses



H.3: Relative to the proposed effort, what is necessary to appropriately support Salmonid Modeling?



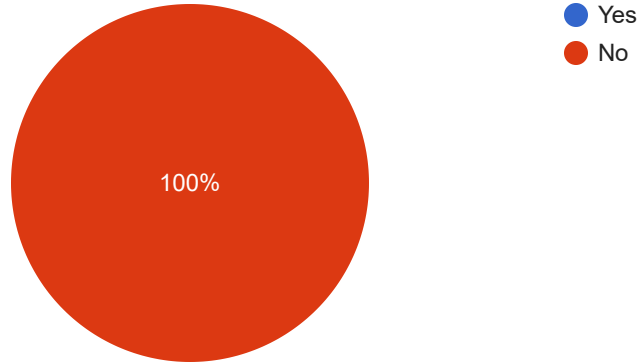
10 responses



Should the BAHG discuss this Project with GCMRC?



8 responses



Is there any additional feedback you would like to provide on Project H as presented in the Initial Draft?

4 responses

Project H put in an effort to target minimal effort. We need to maintain the long-term monitoring data for both salmonids and other fish in the system. Would have liked to see modeling effort focused on environmental influences and maybe less on brown trout at this moment.

Very well developed project elements. Should be used as a model for other projects. Really appreciate the collaborations on how to reduce effort but not lose much information.

Please answer previously submitted questions in next version of TWP.

Seems most possible cuts without losing the project o scientists have already been made

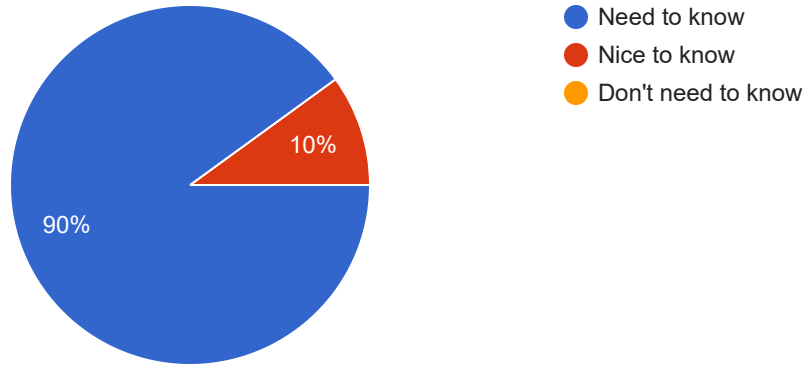
Project I: Non-native Invasive Species Monitoring and Research





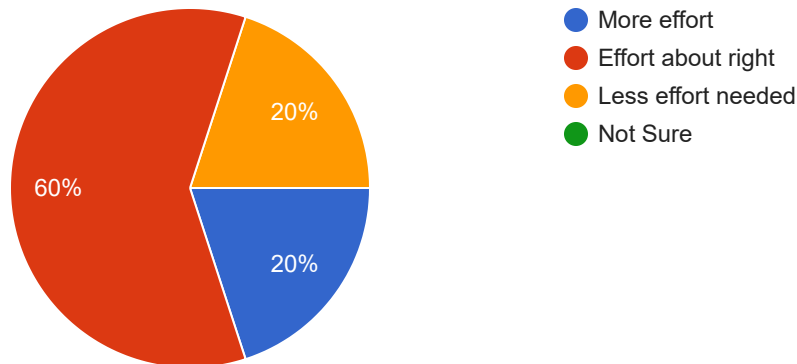
I.1: How necessary is System-wide Native Fishes and Invasive Aquatic Species Monitoring to better understanding progress in meeting LTEMP goals?

10 responses



I.1: Relative to the proposed effort, what is necessary to appropriately support System-wide Native Fishes and Invasive Aquatic Species Monitoring?

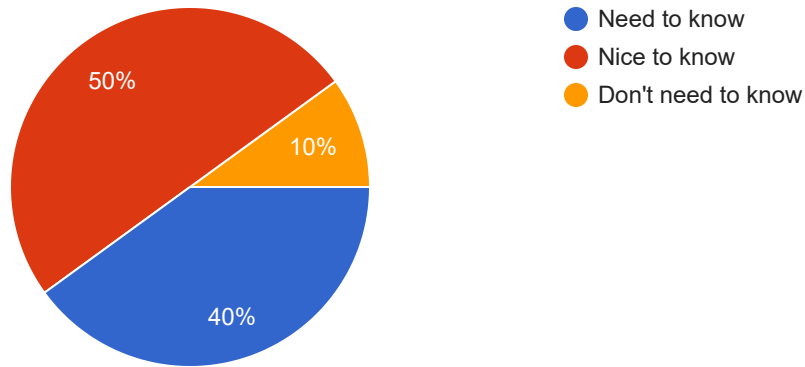
10 responses



I.2: How necessary is Estimating Kinship And Spawner Abundance Of Warmwater Nonnatives to better understanding progress in meeting LTEMP goals?

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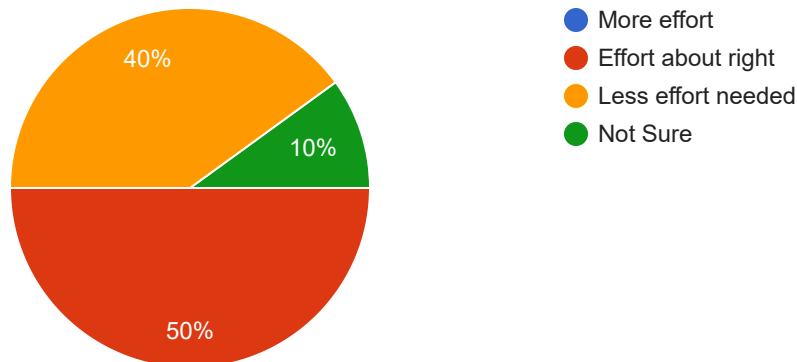
10 responses



I.2: Relative to the proposed effort, what is necessary to appropriately support Estimating Kinship And Spawner Abundance Of Warmwater Nonnatives?

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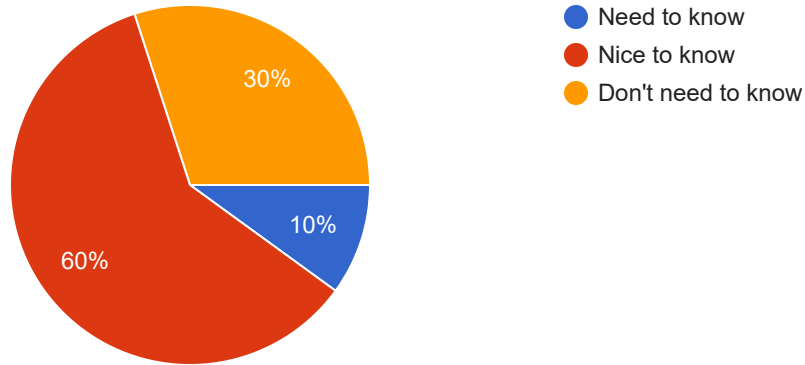
10 responses



I.3: How necessary is Identifying Emerging Threats to the Colorado River Ecosystem Using Environmental DNA to better understanding progress in meeting LTEMP goals?



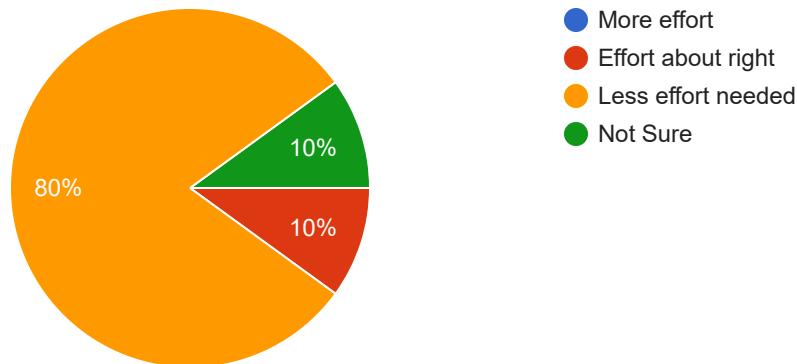
10 responses



I.3: Relative to the proposed effort, what is necessary to appropriately support Identifying Emerging Threats to the Colorado River Ecosystem Using Environmental DNA?



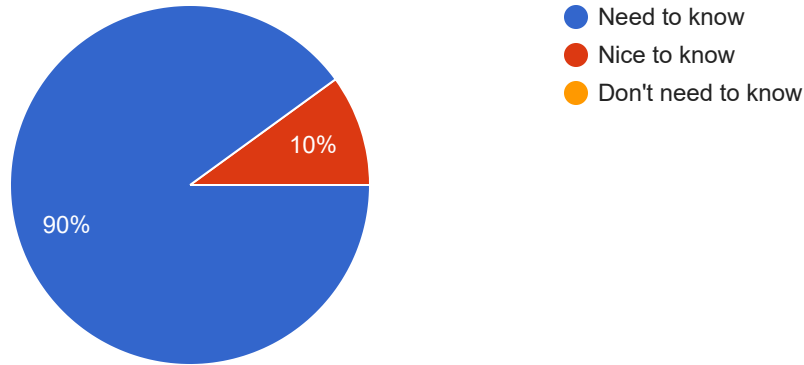
10 responses



I.4: How necessary is Modeling Population Dynamics and Improving Forecasting Tools for Smallmouth Bass and Other Non-Native Fish to better understanding progress in meeting LTEMP goals?



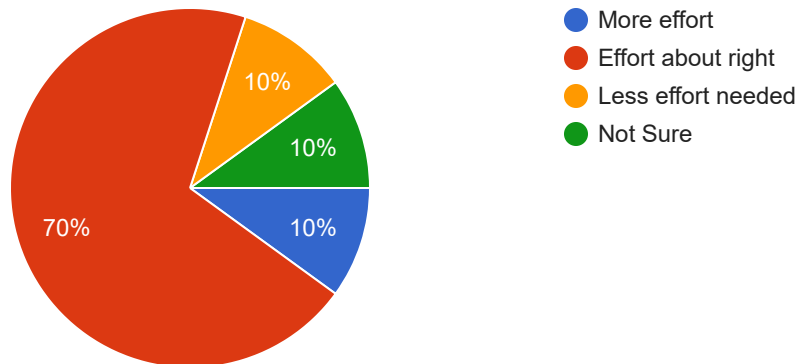
10 responses



I.4: Relative to the proposed effort, what is necessary to appropriately support Modeling Population Dynamics and Improving Forecasting Tools for Smallmouth Bass and Other Non-Native Fish?



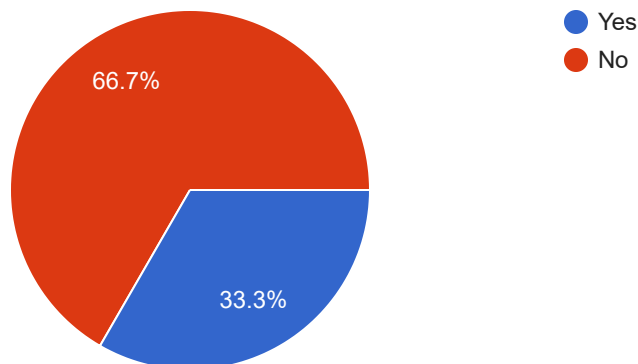
10 responses



Should the BAHG discuss this Project with GCMRC?



9 responses



Is there any additional feedback you would like to provide on Project I as presented in the Initial Draft?

4 responses

I3 is not recommended at this time because techniques are not established, guaranteed, and ready. This appears to be a distraction from monitoring and removal efforts.

All these projects gained a large interest from stakeholders and federal agencies. I.2 would be nice but we might need to scale back at this point. I.3 has a lot of potential but if we need to scale back we should. Try to fund all projects to some extent if possible.

I3 seems like a good idea but what do we do with the data once we get it. Will eDNA actually lead to different management decisions or just simply tell us what we already know but perhaps at a slightly later time.

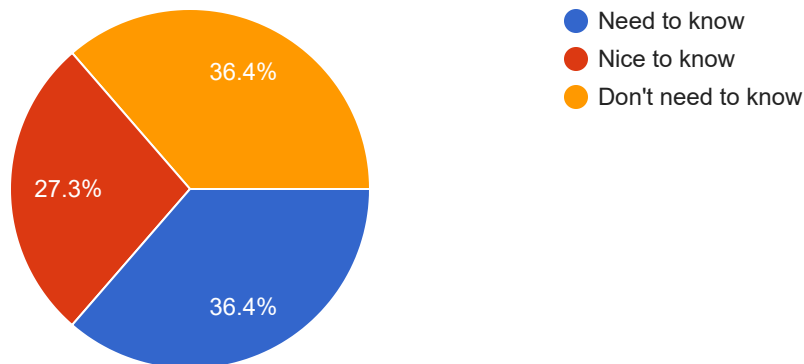
The solutions discussed in the last BAHG call would hopefully help lower the budget for this project, such as working on eDNA sampling with NPS, combining eDNA trips when possible or shortening the I.1 trips. I2 and I4 seem like a top priority moving forward and those should remain intact if possible. Given the issues we understand about salary and the potential needs to find outside work, is it possible for staff from other projects who's elements were proposed cut or slimmed down to assist more with Project I?

Project J: Socioeconomic Research

J.1: How necessary is Integrated Models for Adaptive Management to better understanding progress in meeting LTEMP goals?



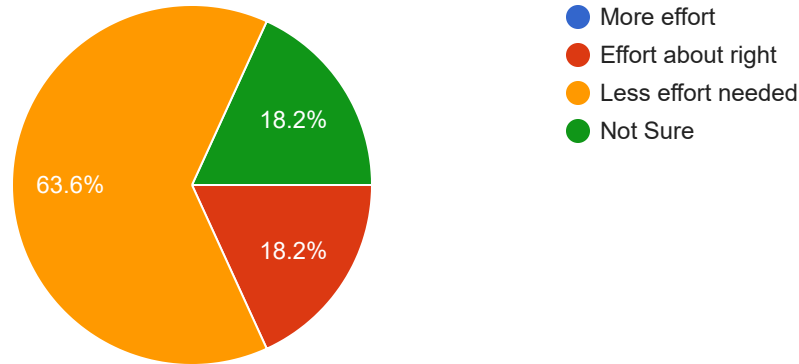
11 responses



J.1: Relative to the proposed effort, what is necessary to appropriately support Integrated Models for Adaptive Management?



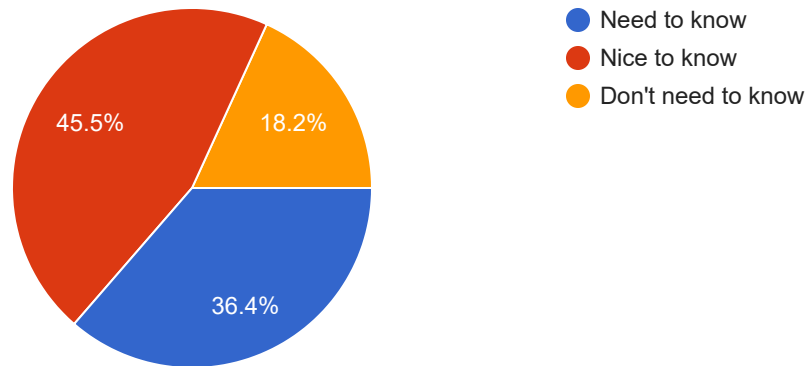
11 responses



J.2: How necessary is Recreation Monitoring and Research to better understanding progress in meeting LTEMP goals?



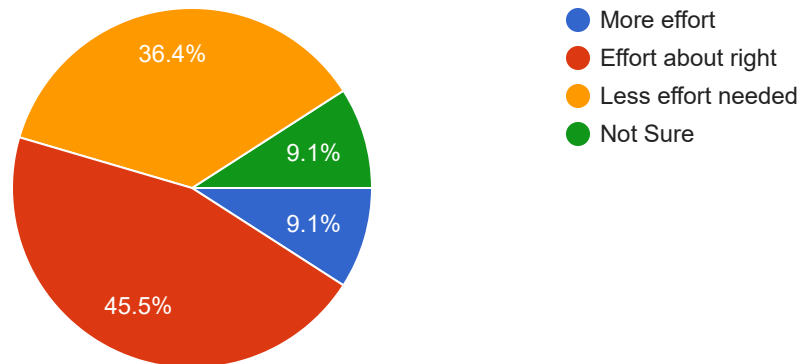
11 responses



J.2: Relative to the proposed effort, what is necessary to appropriately support Recreation Monitoring and Research?



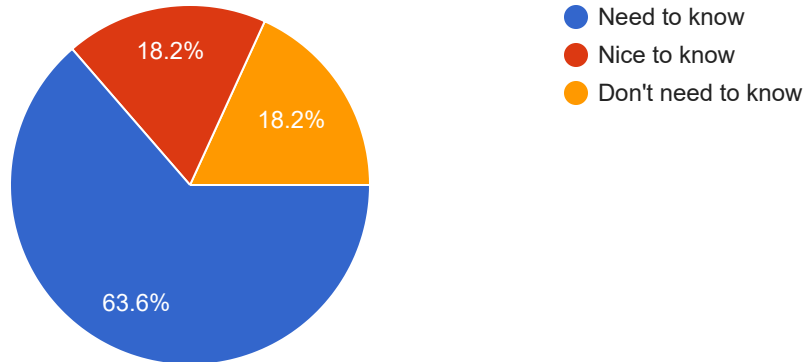
11 responses



J.3: How necessary is Tribal Resources Research to better understanding progress in meeting LTEMP goals?

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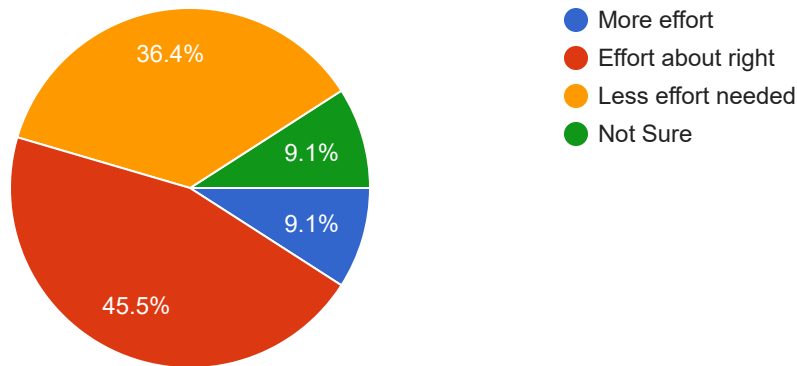
11 responses



J.3: Relative to the proposed effort, what is necessary to appropriately support Tribal Resources Research?

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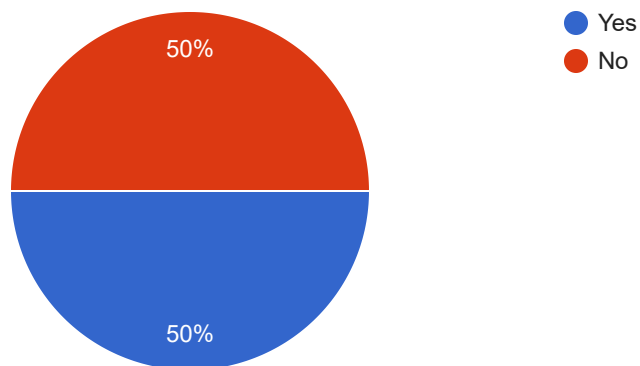
11 responses



Should the BAHG discuss this Project with GCMRC?

 Copy

8 responses



Is there any additional feedback you would like to provide on Project J as presented in the Initial Draft?

8 responses

Sending \$ to other cost centers should not be prioritized over GCMRC

J.1 seems very important but it might need some scaling back on sub-elements. J.2 is crucial due to the growing importance in the region. J.3 needs to be supported by tribes and maybe moved to the Tribal side of the budget.

Because the budget is tight for this cycle, we suggest removing the new sub-elements in project J - Hydropower and VOI. Hydropower research is now covered on the Reclamation side, it should not be funded twice.

Project J.1 Sub-element Hydropower Metrics: We are concerned that this is redundant to current modeling. We had already agreed to remove it from Project N and it presented much lower on the survey rankings.

Project J.1 Sub-element Value of Information Analysis: Rather than funding a new method it probably makes more sense to utilize previous LTEMP methods like structured decision analysis.

Please address previously submitted questions/feedback in next version of TWP. I remain unclear on exactly what information will be gained from the integrated models and value of information analysis and the timing of when this information might be available to managers. Given the increased need for endangered fish and non-native fish work in the upcoming TWP, these elements are of reduced priority. Suggest separating the sub-elements into separate project elements to facilitate more targeted discussion and evaluation. Please confirm in the TWP specific information tribes are seeking from project J3. Our support for project J3 is dependent upon this information.

Less effort and emphasis on brown trout incentivized harvest. Is NPS not gathering data on recreation as well? As with previous submittal, tribal knowledge should focus on what needs are expressed by the tribes.

WAPA cannot support a budget and workplan recommendation that includes GCMRC continuing to lead research or modeling of the hydropower resource or lead in the development of hydropower metrics for the AMP. GCMRC has neither the models, nor the expertise in the CRSP hydropower system to adequately provide Reclamation with impacts analysis of changing operations at Glen Canyon Dam. As illustrated in the hydropower analysis in the Public Draft and the CA Draft Final LTEMP SEIS, GCMRC's analysis was incomplete and the modeling they did provide was entirely duplicative with the modeling done by WAPA. Additionally, the assumptions they incorporated into their simplified model were not peer reviewed and are likely invalid. Additionally, our comments on the Public Draft SEIS outline how they conducted their data analysis incorrectly. These assumptions, and the statistics they used, produced misleading conclusions regarding the impact of the actions proposed in the



SEIS.

WAPA has repeatably committed to Reclamation and GCMRC on helping with their modeling needs. These hydropower models, assumptions, and analysis must be developed and conducted by people who are trained and knowledgeable in the operation of the CRSP hydropower system. These analyses should only be done under the leadership of WAPA. WAPA cautions Reclamation in using hydropower analyses conducting by organizations that do not meet these standards.

We recognize and agree that GCMRC has the staffing issues described on recent BAHG calls. It is not clear to us why GCMRC is engaged in duplicative modeling that only partially meets Reclamation's needs for the hydropower analyses in their NEPA documents. It is also unclear to us why GCMRC was asked to help with the hydropower power analyses for the LTEMP SEIS, but are not the Post-2026 EIS. If Charles and others are so over tasked and under funded to the point where they are being supported by projects outside the AMP, why are they be asked to develop and conduct partial hydropower analyses that are then duplicated and completed by WAPA?

We request that all hydropower analyses being done by GCMRC be removed from the TWP. Additionally, we are not aware of any compliance requirement Reclamation is under that would require an economist developing socioeconomic projects. Seeing that the BAHG ranked Project J the lowest of any full project in the first BAHG survey, we also propose Project J be cut in its entirety and its funding and staff be shifted to higher priority projects that fill a compliance need.

In a tight budget climate, this project should be one of the first to be discontinued. There are existing tools and processes the AMP has used in the past that could be resurrected. Some of this project appears to be justified linked to metrics work, and most of it is entirely discretionary and does not need to be further considered.

CREDA has been very direct about there not being a need for GCMRC to provide hydropower modeling. WAPA and the utility cooperators and reps are the SMEs in this area. Case in point is the LTEMP DSEIS power and energy section.

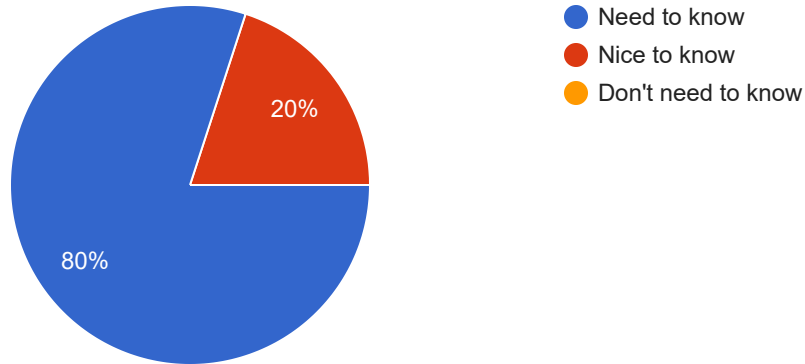
Project K: Geospatial Science, Data Management and Technology Project



K.1: How necessary is Enterprise GIS, Geospatial Analysis and Processing to better understanding progress in meeting LTEMP goals?

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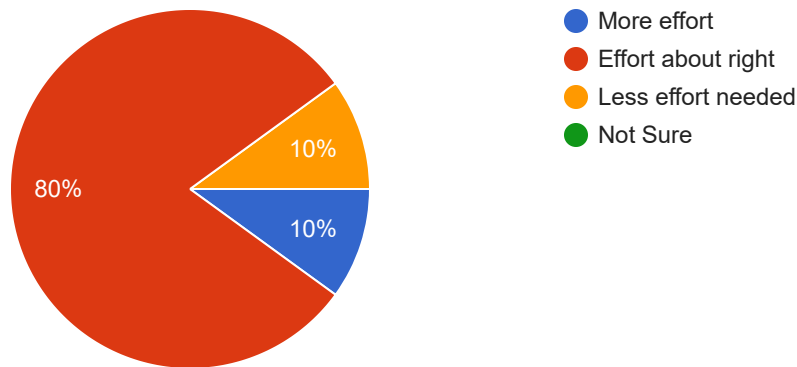
10 responses



K.1: Relative to the proposed effort, what is necessary to appropriately support Enterprise GIS, Geospatial Analysis and Processing?

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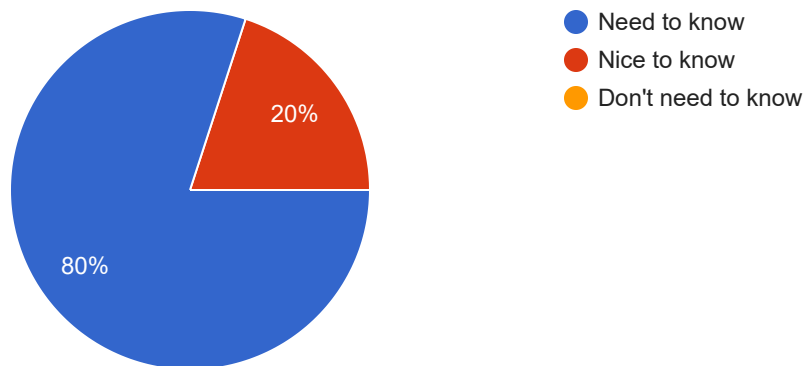
10 responses



K.2: How necessary is Data Management and Database Administration to better understanding progress in meeting LTEMP goals?

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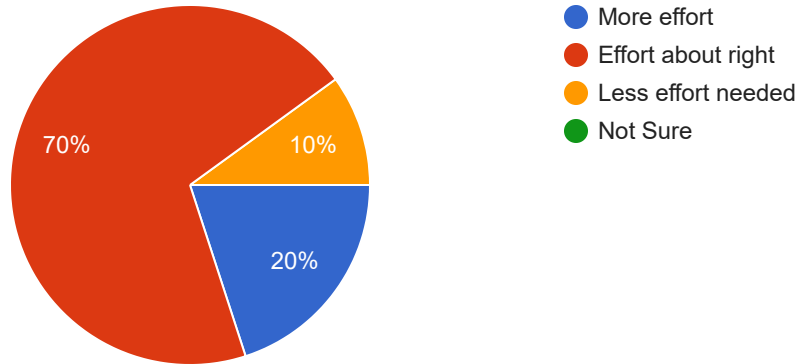
10 responses



K.2: Relative to the proposed effort, what is necessary to appropriately support Data Management and Database Administration?



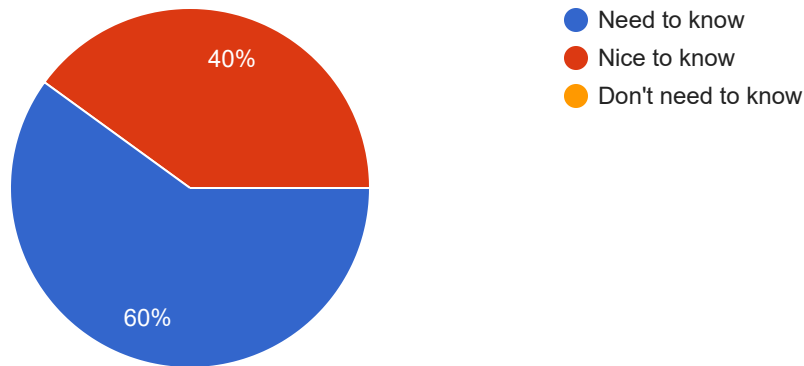
10 responses



K.3: How necessary is Data Telemetry and Field Engineering to better understanding progress in meeting LTEMP goals?



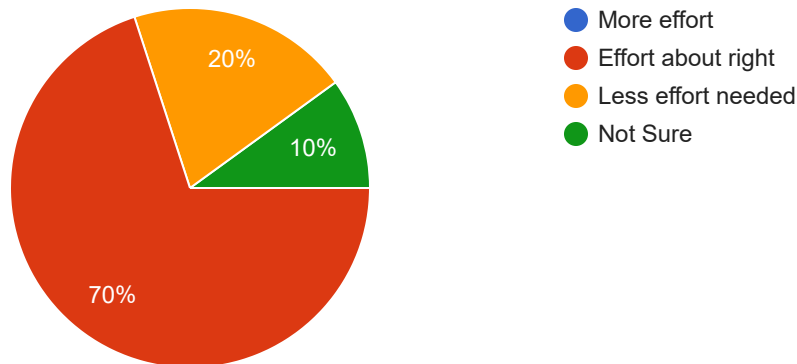
10 responses



K.3: Relative to the proposed effort, what is necessary to appropriately support Data Telemetry and Field Engineering?



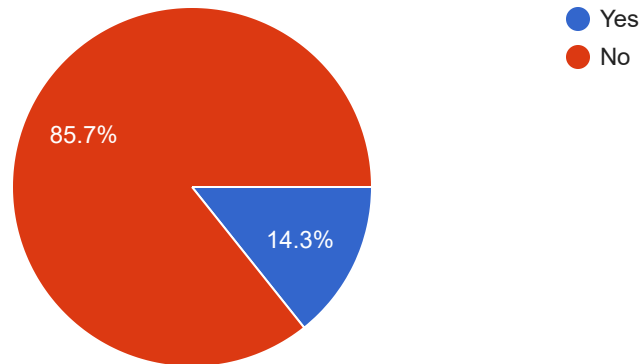
10 responses



Should the BAHG discuss this Project with GCMRC?



7 responses

Is there any additional feedback you would like to provide on Project K as presented in the Initial Draft?

5 responses

full documentation, redesign and re-implementation of the existing Fish Monitoring database is critical to the planning for Recovery and Consultation on threatened and endangered species

We feel like all these elements have been neglected in the past. These projects are crucial for the future and should be funded as much as possible.

K projects are all important but there has to be some cutting. We can't maintain ~\$1M/year. Needs to cut all projects by 25-50%. We realize that this is a lot but work needs to focus on maintaining capacities instead of expanding them. As a stakeholder, we appreciate efforts to make data more accessible but at the same time, we access data so infrequently, it is likely more efficient if we just request data on an ad hoc basis.

Please answer previously submitted questions in next version of TWP.

The cuts proposed in the last BAHG would assist with the budget concern, however not ideal, perhaps some such as the fish database and SHOALS could be funded by outside funding.

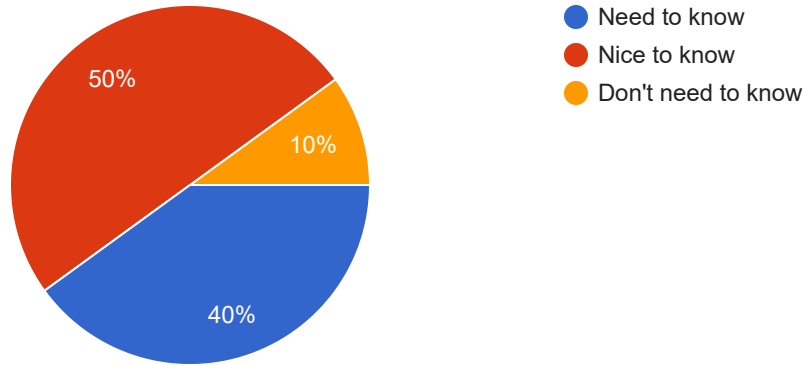
Project L. Overflight Remote Sensing in Support of GCDAMP and LTEMP





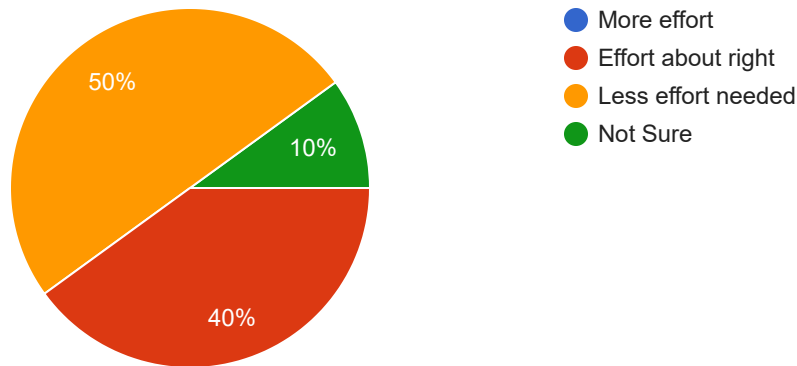
L.1: How necessary is Analysis and Interpretation of Overflight Remote Sensing Data to better understanding progress in meeting LTEMP goals?

10 responses



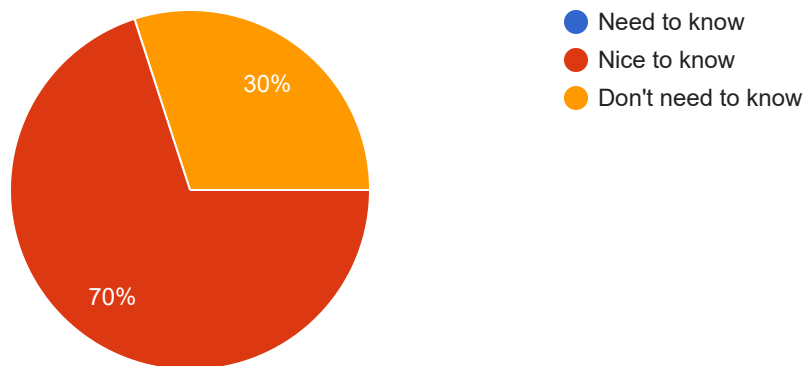
L.1: Relative to the proposed effort, what is necessary to appropriately support Analysis and Interpretation of Overflight Remote Sensing Data?

10 responses



L.2: How necessary is Acquisition of Overflight Remote Sensing Imagery to better understanding progress in meeting LTEMP goals?

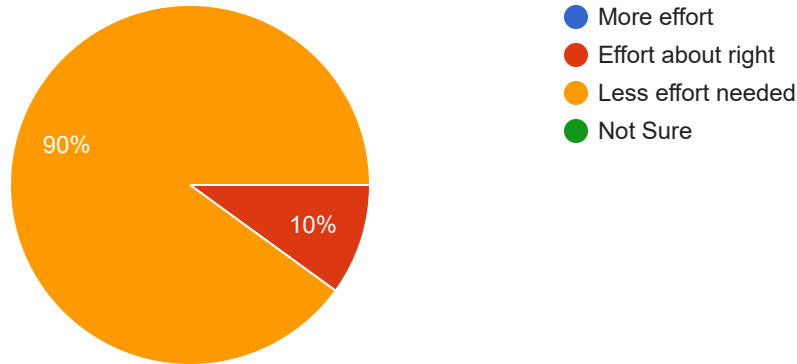
10 responses



L.2: Relative to the proposed effort, what is necessary to appropriately support Acquisition of Overflight Remote Sensing Imagery?



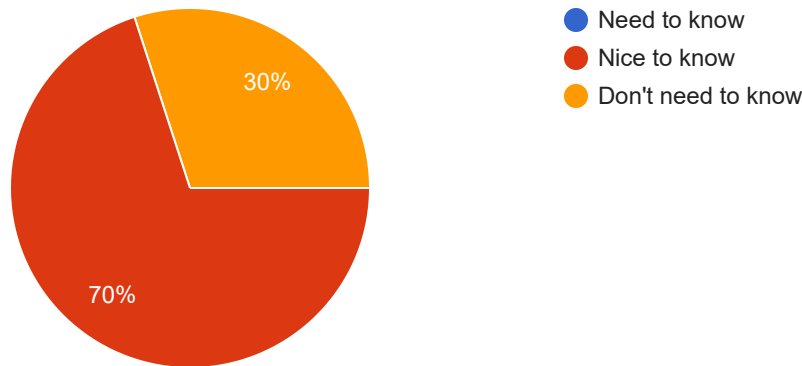
10 responses



L.3: How necessary is Acquisition of Airborne Lidar in Conjunction with Overflight Remote Sensing Imagery to better understanding progress in meeting LTEMP goals?



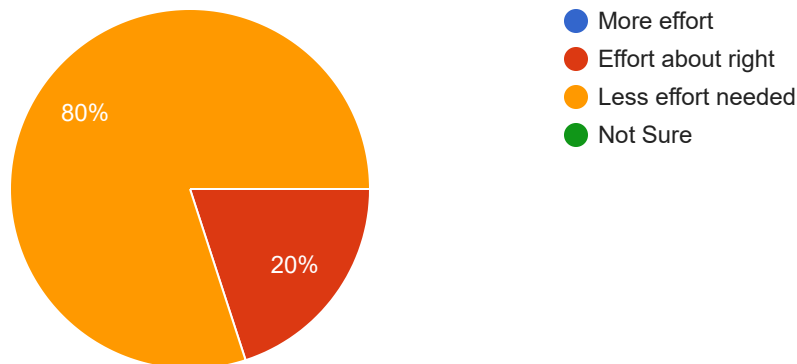
10 responses



L.3: Relative to the proposed effort, what is necessary to appropriately support Acquisition of Airborne Lidar in Conjunction with Overflight Remote Sensing Imagery?



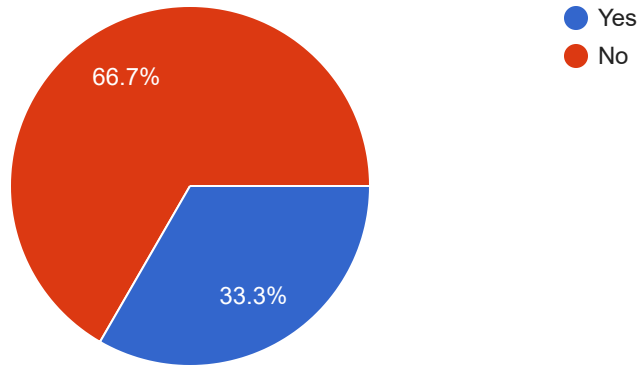
10 responses



Should the BAHG discuss this Project with GCMRC?



9 responses



Is there any additional feedback you would like to provide on Project L as presented in the Initial Draft?

5 responses

L.1 needs to be completed. L.2-L.3 are important and will be funded in the next triennial work plan. If possible we will work to get this funded earlier through other funding sources as they become available. We will need to coordinate with Joel to see how much time is needed to get the project moving.

We realize the importance of this work but we simply can't afford to do this work in this work plan. Effort needs to be pushed out to a future work plan as has been done in the past. We have been able to make key management recommendations without having this data on the 3 year cycle that the PI's advocate for, so we are confident that moving this work to a future work plan won't impair our ability to make future key management recommendations.

Please answer previously questions in next version of TWP. Please clarify level of staff effort needed for project L1.

This budget would be good to prioritize if magic money reappears, but with the current constraints it seems like it isn't as important as some of the other project variables

discuss if more information is available on the possibility of putting unspent funds towards imagining, and if partnerships are able to pair down costs for L2 and L3.

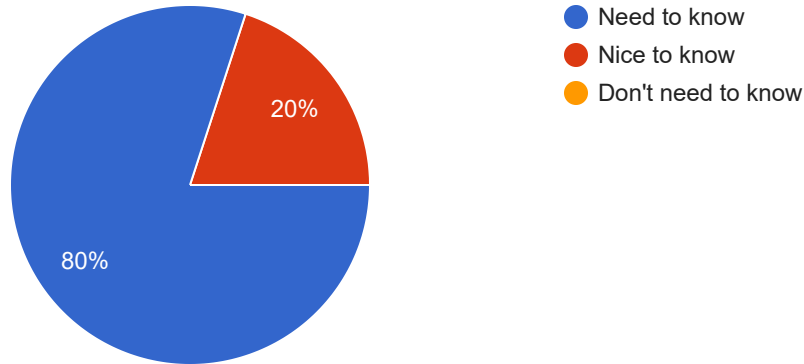
Project M. Leadership, Management, and Support



M.1: How necessary is Leadership, Management, and Support to better understanding progress in meeting LTEMP goals?



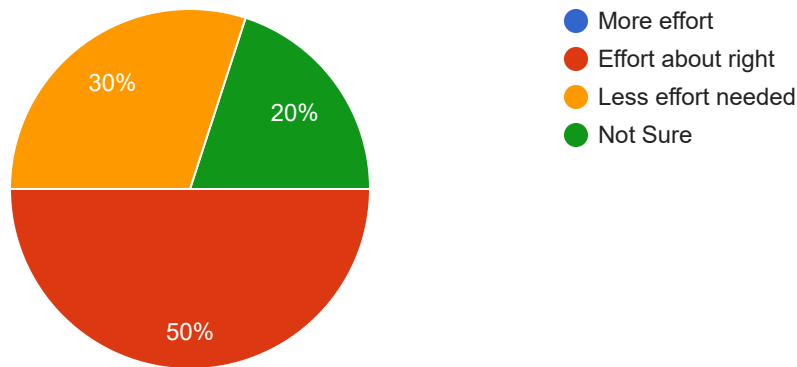
10 responses



M.1: Relative to the proposed effort, what is necessary to appropriately support Leadership, Management, and Support?



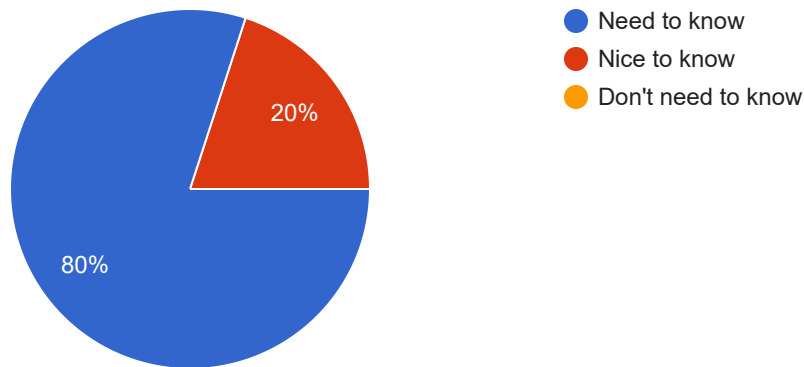
10 responses



M.2: How necessary is Logistics Staff to better understanding progress in meeting LTEMP goals?



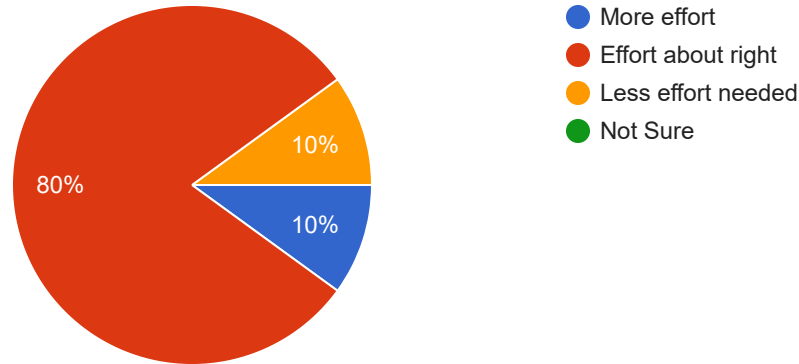
10 responses



M.2: Relative to the proposed effort, what is necessary to appropriately support Logistics Staff?



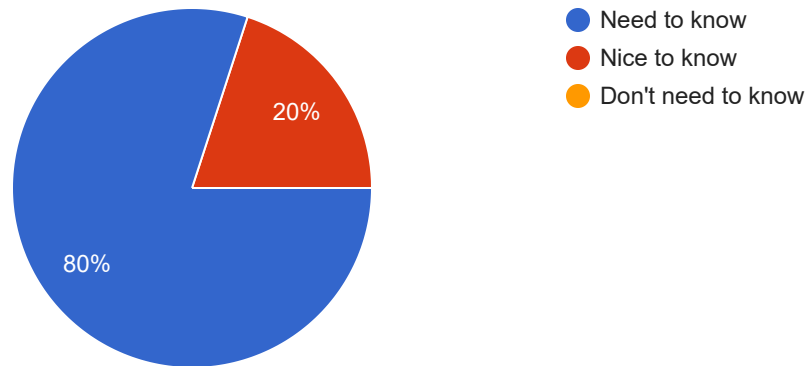
10 responses



M.3: How necessary is IT to better understanding progress in meeting LTEMP goals?



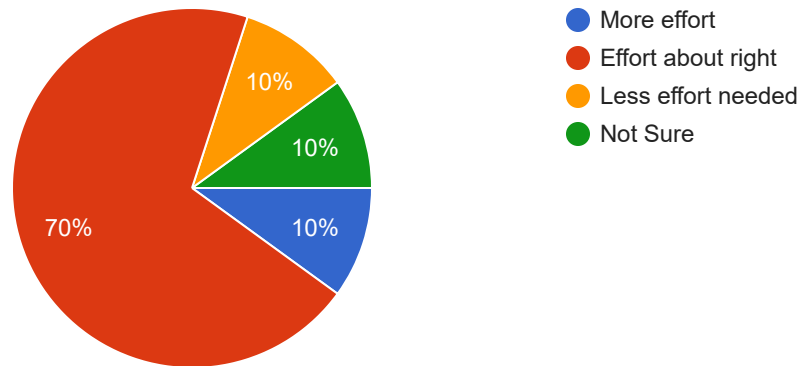
10 responses



M.3: Relative to the proposed effort, what is necessary to appropriately support IT?



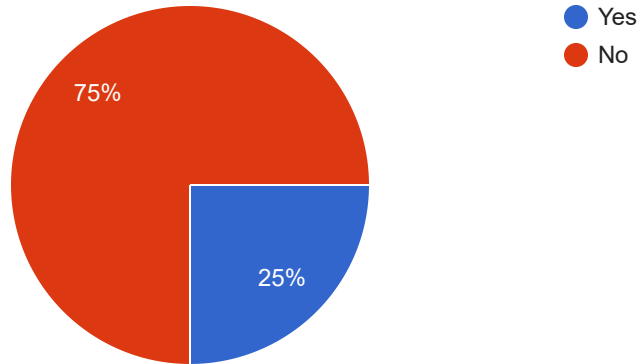
10 responses



Should the BAHG discuss this Project with GCMRC?



8 responses



Is there any additional feedback you would like to provide on Project M as presented in the Initial Draft?

4 responses

Who is the one PI whose is covered for half of their salary time on Project M. Why is that PI not covered on a specific project? Very high salary costs.

No comments here. You are all doing good.

Not sure how to handle this one since these might be fixed costs but there must be someway to reduce the expense. We can't sustain these costs.

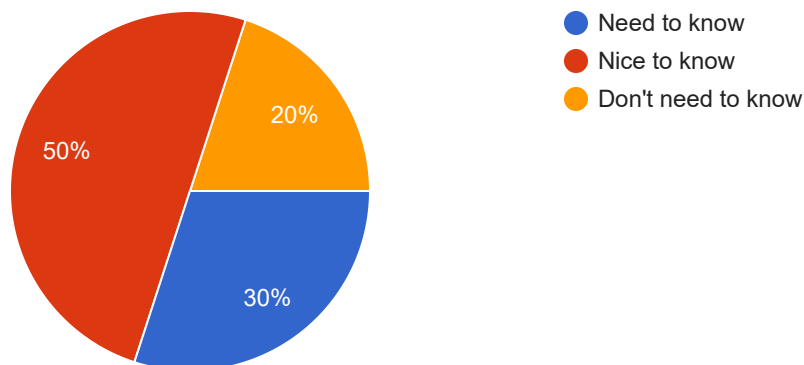
Please answer previously submitted questions in next version of TWP.

Project N: Native Fish Population Dynamics* (New Project)

N.1: How necessary is Sucker and Dace Distribution and Demographic Modeling to better understanding progress in meeting LTEMP goals?



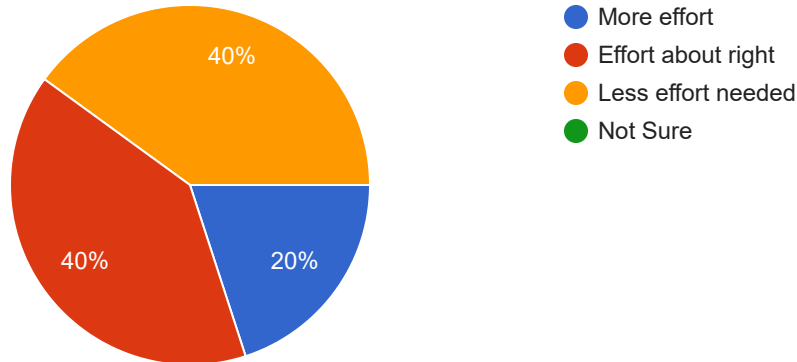
10 responses



N.1: Relative to the proposed effort, what is necessary to appropriately support Sucker and Dace Distribution and Demographic Modeling?



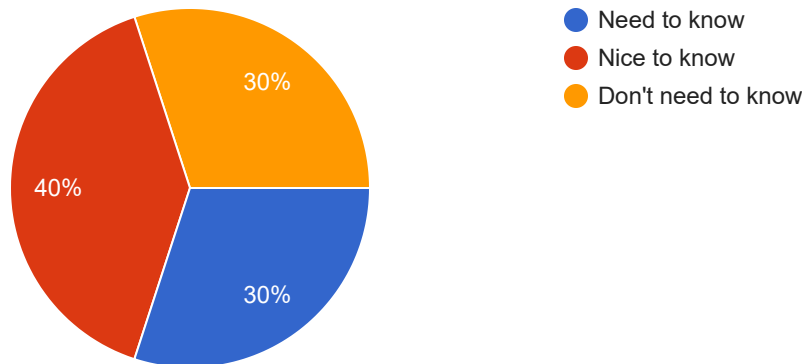
10 responses



N.2: How necessary is Predictive modeling and decision support for native fishes to better understanding progress in meeting LTEMP goals?



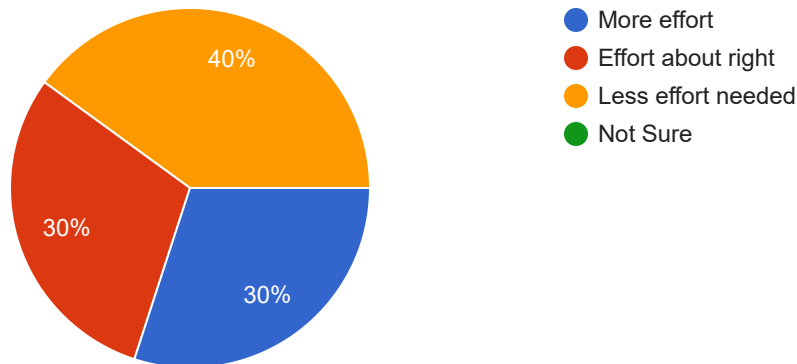
10 responses



N.2: Relative to the proposed effort, what is necessary to appropriately support Predictive modeling and decision support for native fishes?



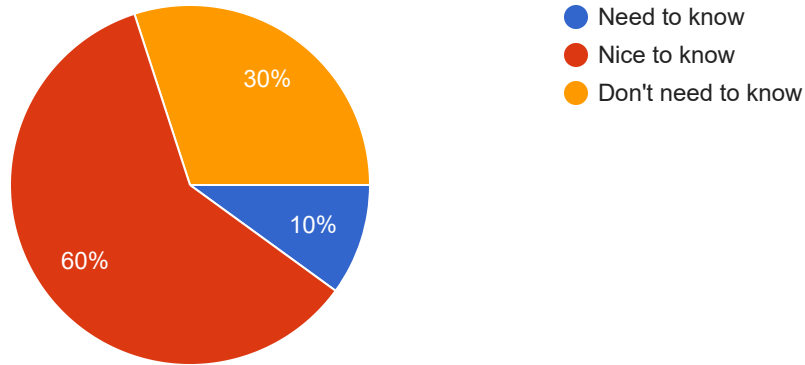
10 responses



N.3: How necessary is Evaluating dispersal and sources of mortality of razorback sucker using new technology to better understanding progress in meeting LTEMP goals?



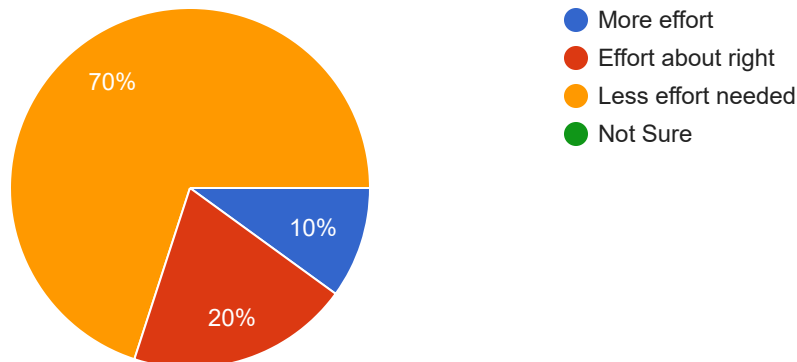
10 responses



N.3: Relative to the proposed effort, what is necessary to appropriately support Evaluating dispersal and sources of mortality of razorback sucker using new technology?



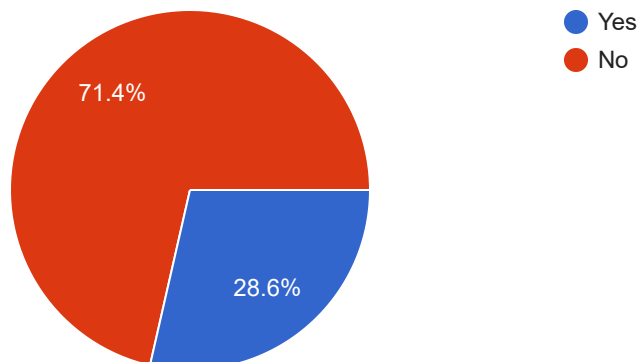
10 responses



Should the BAHG discuss this Project with GCMRC?



7 responses



Is there any additional feedback you would like to provide on Project N as presented in the Initial Draft?

4 responses

N.1-N.2 would be a nice to know if funds become available. N.3 Could it be collaborated with Biowest's Razorback work? Is there any way to fit some of the data collection into other projects?

All good ideas but we simply can't afford the work. Need to cut accordingly. Prioritize N1 using existing data if need be.

Please answer previously submitted questions in next version of TWP. Request for increased effort is based on proposal to defund Project N.

similar comment to Project J. In a tight budget scenario, this project is interesting but not a 'must have'

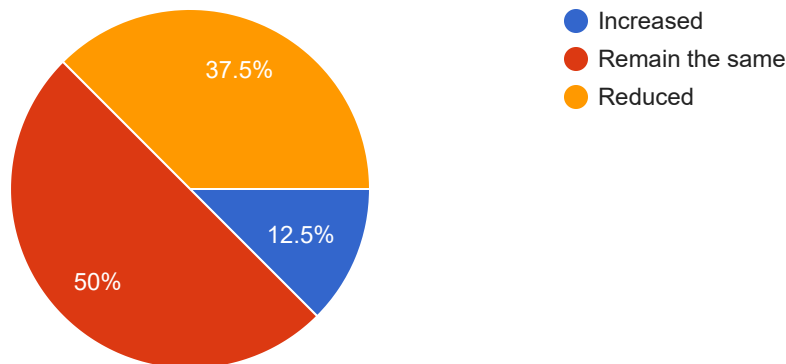
LTEMP Resource Goals



1. *Archaeological and Cultural Resources*. Maintain the integrity of potentially affected NRHP-eligible or listed historic properties in place, where possible, with preservation methods employed on a site-specific basis.

Should efforts be:

8 responses

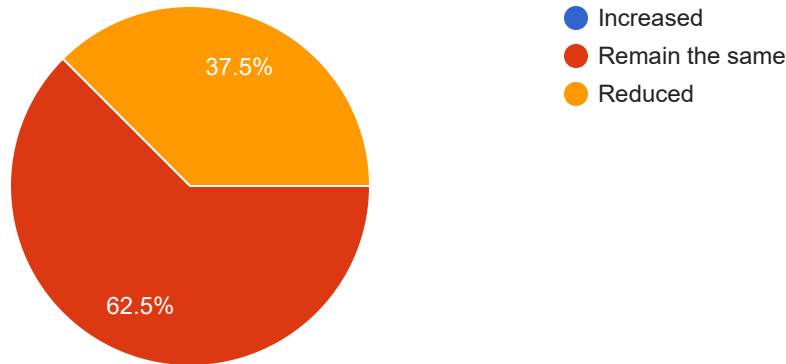




2. *Natural Processes*. Restore, to the extent practicable, ecological patterns and processes within their range of natural variability, including the natural abundance, diversity, and genetic and ecological integrity of the plant and animal species native to those ecosystems.

Should efforts be:

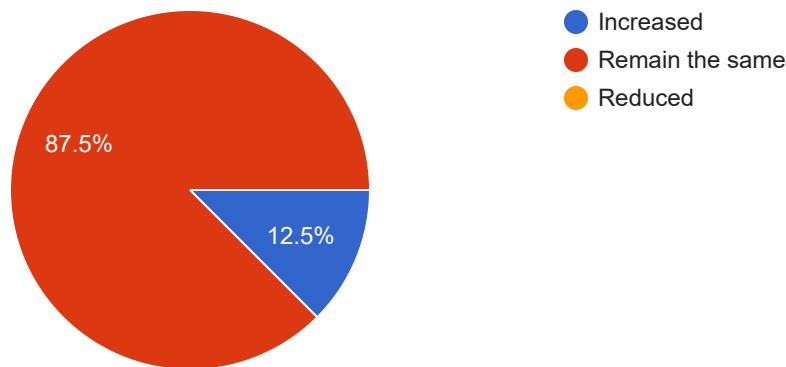
8 responses



3. *Humpback Chub*. Meet humpback chub recovery goals, including maintaining a self-sustaining population, spawning habitat, and aggregations in the Colorado River and its tributaries below the Glen Canyon Dam.

Should efforts be:

8 responses

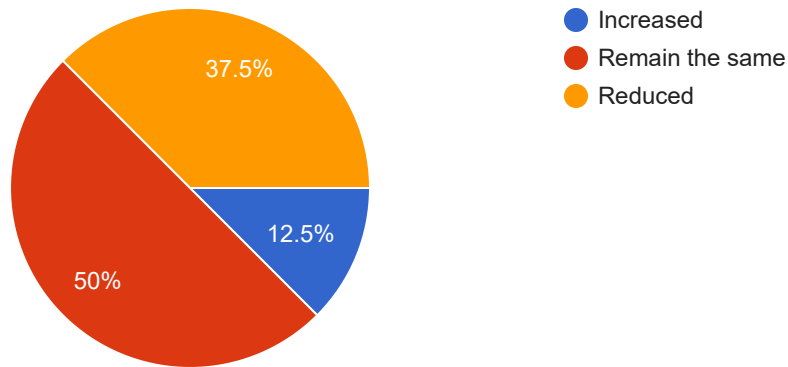




4. *Hydropower and Energy*. Maintain or increase Glen Canyon Dam electric energy generation, load following capability, and ramp rate capability, and minimize emissions and costs to the greatest extent practicable, consistent with improvement and long-term sustainability of downstream resources.

Should efforts be:

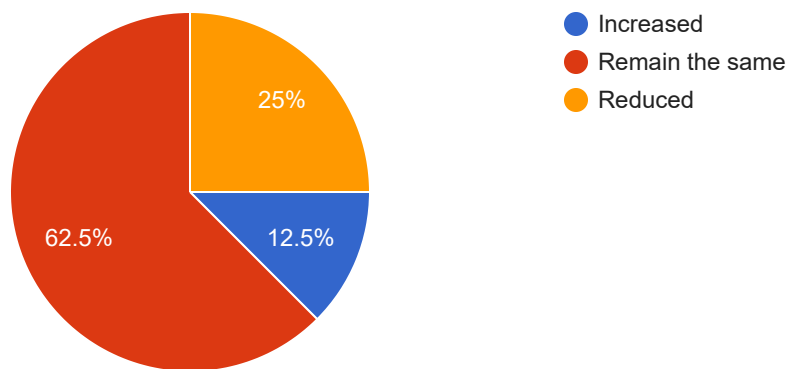
8 responses



5. *Other Native Fish*. Maintain self-sustaining native fish species populations and their habitats in their natural ranges on the Colorado River and its tributaries.

Should efforts be:

8 responses

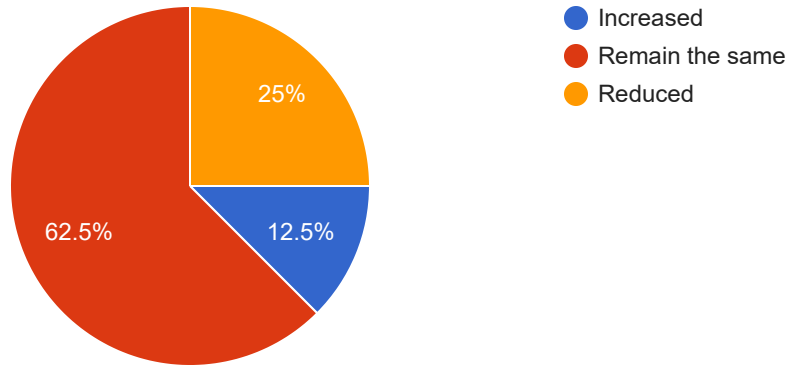




6. *Recreational Experience*. Maintain and improve the quality of recreational experiences for the users of the Colorado River Ecosystem. Recreation includes, but is not limited to, flatwater and whitewater boating, river corridor camping, and angling in Glen Canyon.

Should efforts be:

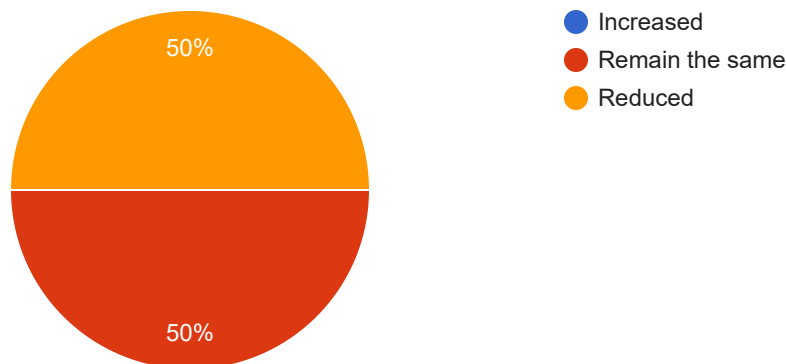
8 responses



7. *Sediment*. Increase and retain fine sediment volume, area, and distribution in the Glen, Marble, and Grand Canyon reaches above the elevation of the average base flow for ecological, cultural, and recreational purposes.

Should efforts be:

8 responses

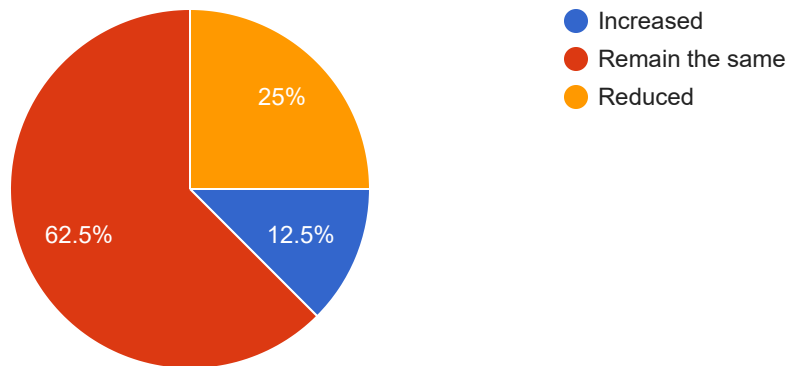




8. *Tribal Resources*. Maintain the diverse values and resources of traditionally associated Tribes along the Colorado River corridor through Glen, Marble, and Grand Canyons.

Should efforts be:

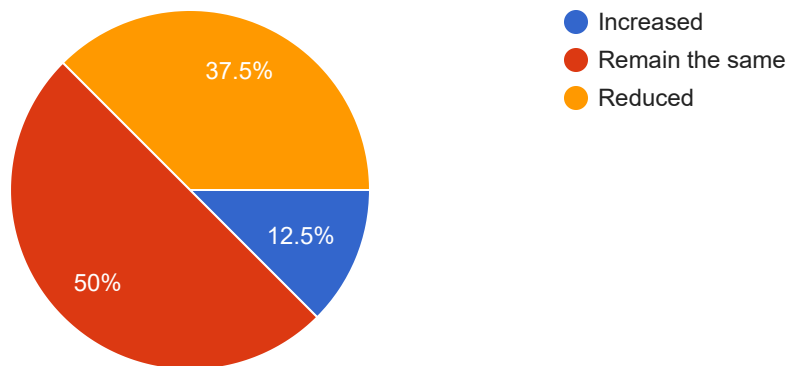
8 responses



9. *Rainbow Trout Fishery*. Achieve a healthy high-quality recreational rainbow trout fishery in GCNRA and reduce or eliminate downstream trout migration consistent with NPS fish management and ESA compliance.

Should efforts be:

8 responses

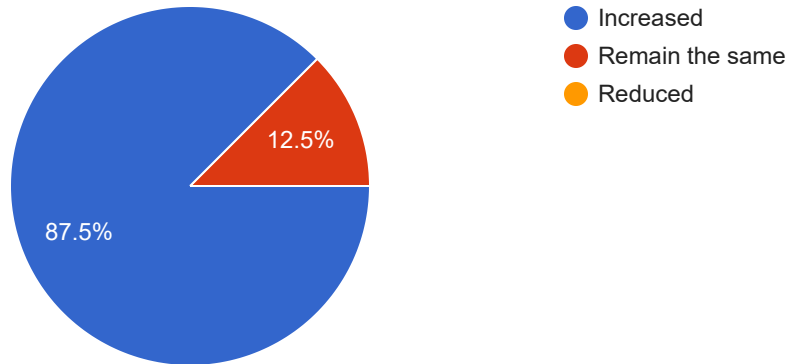




10. *Nonnative Invasive Species*. Minimize or reduce the presence and expansion of aquatic nonnative invasive species.

Should efforts be:

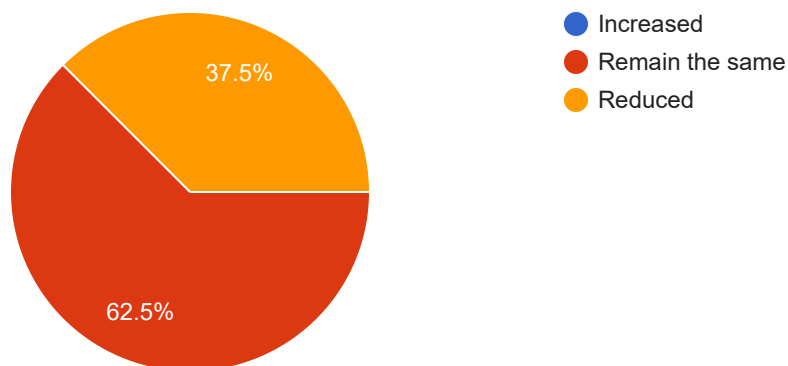
8 responses



11. *Riparian Vegetation*. Maintain native vegetation and wildlife habitat, in various stages of maturity, such that they are diverse, healthy, productive, self-sustaining, and ecologically appropriate.

Should efforts be:

8 responses



FY25-27 TWP Stakeholder Priorities Concluding Question



What critical elements are missing from the work plan?

4 responses

Need a fund to cover unanticipated work that may arise mid work plan. Specific Vol methods need to be described.

I am not sure anything is missing completely, but efforts that are essential to protecting resources and not just learning more in this deficit in the budget should be prioritized. Learning more in some circumstances might help better protect, but the unfortunate task here is to prioritize efforts and those that are vital should not be replaced with new technology or methods that 'might' help improve protection down the road. With that said, all of this work is incredible and I personally hope we see it done in the future.

Not a concluding question, but just clarifying that my responses are based on the revised budget spreadsheet provided by GCMRC

Instead of cutting all projects equally by a 12.5%, GCMRC should use this survey to identify projects or project elements where effort (and funding) should be increased, stay the same as the previous workplan, or decreased. Each project element should be scored and effort and funding for the the upper third project elements should be increased by 10%, the middle third should remain the same, and the lower third should be decreased by 35%. If the decrease in funding makes the project or project element infeasible, it should be cut entirely. This should be done iteratively until the budget is balanced. Staff who see their projects cut should be reassigned to other projects within GCMRC or reassigned outside of GCMRC. Each project should be reviewed by GCMRC leadership and a budget analyst with the PI for cost savings before it is presented to the BAHG.

The AMP needs more work to be done understanding the risk of entrainment of warmwater nonnative fish through Glen Canyon Dam at different reservoir elevations in Lake Powell, the risk of warmwater nonnative passage over Pearce Ferry rapid at different reservoir elevations in Lake Mead, and the risk of nonnative fish establishment from fish coming in from tributaries like the LCR. This information is needed in order to inform decisions being made regarding reservoir elevations in Post-2026. Reclamation should consider this information a high priority for that planning effort.

The AMP needs a better understanding of why nonnative fish populations have declined in western Grand Canyon and specifically why smallmouth bass never established at the LCR or in western Grand Canyon even though individuals were present and water temperatures were suitable for spawning. We need this information brought into the humpback chub model to understand what the risk of establishment (or lack thereof) might be to humpback chub in Grand Canyon. These models need to be peer reviewed before their use. These issues are of the highest priority considering their potential impact to operations at Glen Canyon Dam.

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