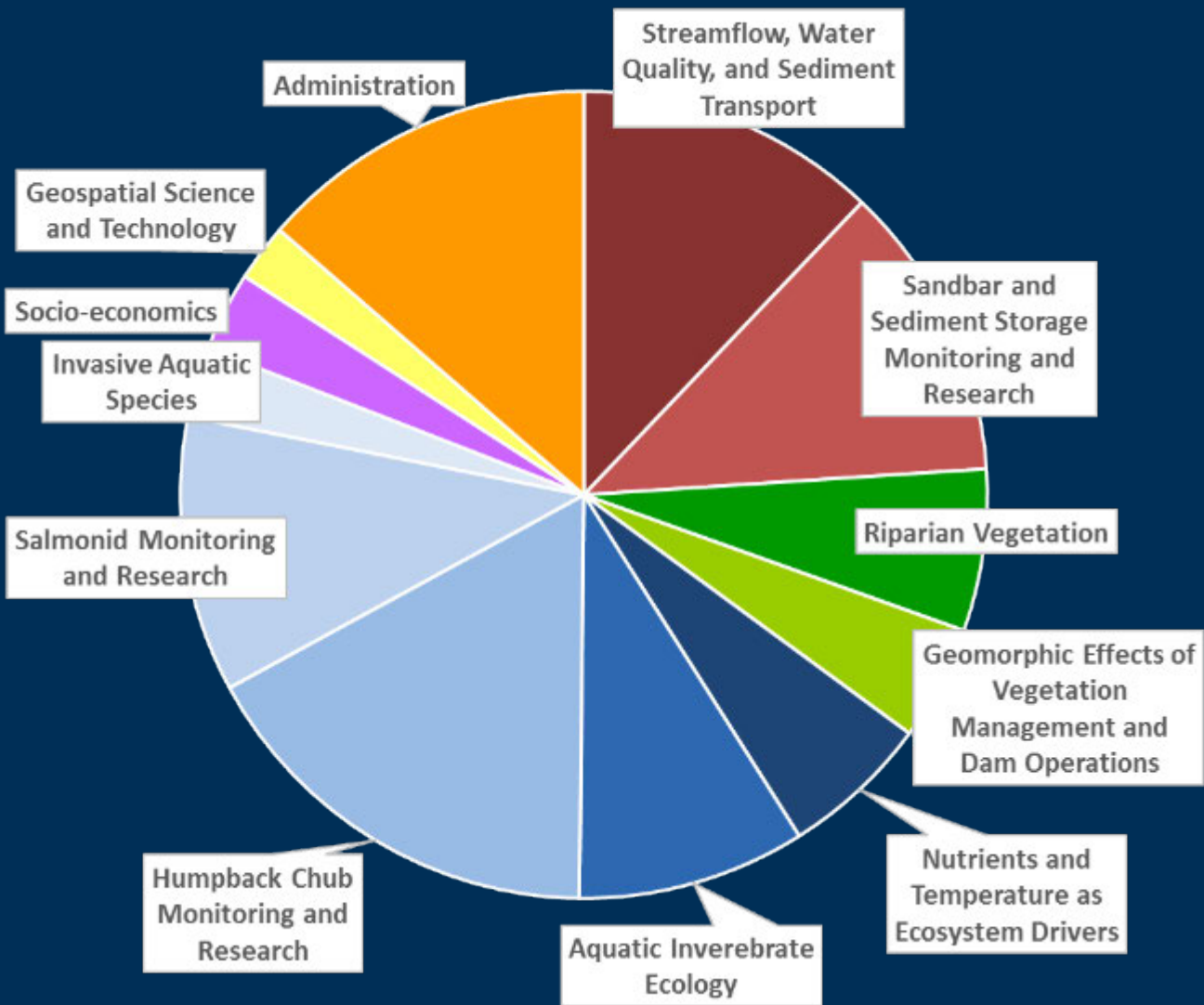




# GCMRC FY2020 Budget Expenditures

**Technical Work Group Meeting  
January 22, 2021**

Michael Moran and Scott VanderKooi  
Southwest Biological Science Center  
Grand Canyon Monitoring and Research Center



Geophysical sciences	24%
Vegetation & effects of management	11%
Aquatic and fish science	46%
Socioeconomics	3%
GIS and remote sensing	2%
Administration and support	14%

## FY2020 GCDAMP Approved Funding Distribution



# FY2020 Project Budgets

Project	Project Title	FY2020 Budgeted	FY2020 Actual	(Over)/Under Budget
A	Streamflow, Water Quality, and Sediment Transport and Budgeting	\$1,160,287	\$1,153,605	\$6,682
B	Sandbar and Sediment Storage Monitoring and Research	\$966,064	\$1,242,111	(\$276,048)
C	Riparian Vegetation Monitoring and Research	\$463,439	\$618,659	(\$155,220)
D	Geomorphic Effects of Dam Operations and Vegetation Management for Archeological Sites	\$249,731	\$252,782	(\$3,051)
E	Nutrients and Temperatures as Ecosystem Drivers	\$271,615	\$240,853	\$30,762
F	Aquatic Invertebrate Ecology	\$680,206	\$839,239	(\$159,033)
G	Humpback Chub Dynamics	\$1,091,811	\$1,393,212	(\$301,401)
H	Salmonid Research and Monitoring	\$498,870	\$526,560	(\$27,690)
I	Warm-Water Native and Non-Native Fish Research and Monitoring	\$484,103	\$419,274	\$64,829
J	Socioeconomic Research	\$240,102	\$295,027	(\$54,925)
K	Geospatial Science and Technology	\$314,247	\$251,767	\$62,480
L	Remote Sensing Overflight Support	\$75,000	\$0	\$75,000
M	Administration	\$1,094,369	\$1,089,766	\$4,603
N	Hydropower Monitoring and Research	\$12,504	\$11,220	\$1,284
	Logistics	\$1,352,807	\$1,726,687	(\$373,880)

# FY2020 Project Budgets, cont.

Project	Project Title	FY2020 Budgeted	FY2020 Actual	(Over)/Under Budget	Funds from FY2019	FY2020 Carryover
A	Streamflow, Water Quality, and Sediment Transport and Budgeting	\$1,160,287	\$1,153,605	\$6,682	\$0	\$6,682
B	Sandbar and Sediment Storage Monitoring and Research	\$966,064	\$1,242,111	(\$276,048)	\$392,821	\$116,774
C	Riparian Vegetation Monitoring and Research	\$463,439	\$618,659	(\$155,220)	\$267,364	\$112,144
D	Geomorphic Effects of Dam Operations and Vegetation Management for Archeological Sites	\$249,731	\$252,782	(\$3,051)	\$18,141	\$15,090
E	Nutrients and Temperatures as Ecosystem Drivers	\$271,615	\$240,853	\$30,762	\$91,973	\$122,735
F	Aquatic Invertebrate Ecology	\$680,206	\$839,239	(\$159,033)	(\$7,534)	(\$166,567)
G	Humpback Chub Dynamics	\$1,091,811	\$1,393,212	(\$301,401)	\$551,216	\$249,815
H	Salmonid Research and Monitoring	\$498,870	\$526,560	(\$27,690)	\$134,637	\$106,947
I	Warm-Water Native and Non-Native Fish Research and Monitoring	\$484,103	\$419,274	\$64,829	\$213,932	\$278,761
J	Socioeconomic Research	\$240,102	\$295,027	(\$54,925)	\$93,462	\$38,537
K	Geospatial Science and Technology	\$314,247	\$251,767	\$62,480	\$53,497	\$115,977
L	Remote Sensing Overflight Support	\$75,000	\$0	\$75,000	\$225,000	\$300,000
M	Administration	\$1,094,369	\$1,089,766	\$4,603	\$54,940	\$59,543
N	Hydropower Monitoring and Research	\$12,504	\$11,220	\$1,284	\$686	\$1,970
	Logistics	\$1,352,807	\$1,726,687	(\$373,880)	\$381,337	\$7,457



# Budget Summary for Adaptive Management Program Funds

(without Lake Powell Agreement)

Budgeted Amount	Actual Spent	(Over)/Under Budget	Funds from FY2019	FY2020 Carryover
\$8,955,155	\$10,060,762	(\$1,105,608)	\$2,471,472	\$1,365,864

High carryover and divergence from planned budget amounts primarily due to:

- Establishing a new 5-year interagency agreement between Reclamation and USGS in August 2019
- Establishing a new 5-year contract for boat operators and scientific technicians
- USGS Financial Assistance Clearance procedures – requires review and approval by the USGS Director for ALL cooperative agreements



# Lake Powell Budget (Not GCDAMP Funded)

Project Title	FY2020 Budgeted	FY2020 Actual	(Over)/Under Budget	Funds from FY2019	FY2020 Carryover
Lake Powell Water Quality	\$203,595	\$171,165	\$32,430	\$145,652	\$178,082

High carryover amounts primarily due to:

- Interagency agreement between Reclamation and USGS established and funded on the calendar year





# Questions?