

**RESULTS OF PAIRED COMPARISONS EXERCISE BY TWG  
ON MAY 16, 2002**

<b>FRAMEWORK</b>		
Sequence Order	Information Need	
	No.	Text
1	RIN 2.1.2	What are the sources of mortality for humpback chub < 51 mm in rearing habitats in the LCR and mainstem and how are they related to dam operations?
2	RIN 4.2.6	To what extent are RBT below the Paria River predators of native fish, primarily HBC? At what size do they become predators of native fish, especially HBC, i.e. how do the trophic interactions between RBT and native fish change with size of fish?
3 (three INs at equal level)	RIN 2.2.10	What techniques are available to determine natal stream of native fish in the Colorado River ecosystem?
	RIN 12.2.4	What historic data sets currently exist for all resources targeted by management objectives in the GCDAMP?
	RIN 1.5.3	How has the value and availability of drift as a food source for Humpback chub changed with the implementation of Record of Decision operations?
4 (three INs at equal level)	RIN 11.1.1	What are the sources of impacts to historic properties?
	RIN 7.4.3	How do changes in flow volume and rate of change affect food base and energy productivity in the Colorado River ecosystem?
	RIN 8.5.1	What elements of Record of Decision operations (upramp, downramp, maximum and minimum flow, MLFF, HMF, and BHBF) are most/least critical to conserving new fine-sediment inputs, and stabilizing sediment deposits above the 25,000 cfs stage?
5 (two INs at equal level)	RIN 1.5.2	How do top-down effects (grazing and predation) affect the abundance and composition of drift?
	RIN 10.3.1	What are the effects of providing financial exception criteria?
6	RIN 12.2.3	What digital, or other, technologies exist and should be used to record field observations and spatially reference these data to facilitate their integration into GCMRC databases and use by PI's and stakeholders?
7	RIN 9.5.1	What effects do administrative trips, including research and monitoring activities have on recreational users?
8	RIN 6.7.3	What constitutes suitable southwestern willow flycatcher habitat?
9	RIN 5.1.7	What is the historic range of <u>Oxyloma haydeni</u> ? Can this range be determined from subfossil or fossil evidence? [NOTE: This is intended to determine if this is a relict species and the initial work would be done at Vasey's Paradise, South Canyon and other probable sites within the Colorado River ecosystem.]
10	RIN 4.1.4	Has there been a change in the genetics or "strain" of rainbow trout in the Lees Ferry reach that might account for the decrease in average size of fish creeded by anglers?
11	RIN 2.5.1	Would the introduction of razorback suckers into the Colorado River ecosystem compromise the genetic integrity of flannelmouth suckers due to hybridization?