

Biology Committee Meeting Draft Summary
July 16-17, 2007
Holiday Inn
Grand Junction, CO

Biology Committee: Tom Chart, Tom Pitts, Shane Capron, Melissa Trammell, Kevin Gelwicks, Krissy Wilson, Dave Speas, and Tom Nesler. Bill Davis tried to participate via phone on Tuesday, July 17, but pick-up volume was inadequate. The environmental groups were not represented at the meeting.

Other participants: Pat Nelson, Tom Czapl, Chuck McAda, Angela Kantola, George Smith, Bob Muth, Tim Modde, Kevin Bestgen, Don Meyer, Karen Holt (via phone on Monday),

Assignments are indicated by “>” and at the end of the document.

Monday, July 16

CONVENE 1:00 p.m.

1. Review/modify agenda – The agenda was modified as it appears below. This is Kevin Gelwicks’ last meeting as chair. Tom Chart becomes chair after this meeting (and Krissy Wilson vice-chair).
2. Yampa River sampling – Pat Nelson said Sam Finney called to ask about sampling Cross Mountain Canyon on the Yampa River this season (no cost to the Program and no interruption of already-scheduled work). Sherm Hebein has approved this work, and asked Pat to get the Biology Committee’s approval. All fish caught (natives or nonnatives) will be tagged and released. The Committee approved.
3. Approve April 23 meeting and May 9 conference call summaries – The Committee approved the May meeting summary as written. >Angela Kantola will revise the May 9 conference call summary to reflect Tom Chart’s suggested changes (posted to the fws-coloriver listserver on May 15).
4. Review assignments from previous meetings - The Committee reviewed assignments from previous meetings (as listed in the meeting agenda). Assignment updates, those still pending, and new assignments can be found in the assignment list in Attachment 1.
5. Update on nonnative fish management activities and public meeting schedules and agendas – Pat Nelson said Colorado River work is underway. Sam Finney and Lori Martin have completed their fieldwork on the Yampa; John Hawkins’ crews may be able to make a few more passes, though flows are dropping quickly. Green River (Lodore) work has begun. Paul Badame’s crew has begun work in the Green River reach where 15 passes are planned. Pat said Hawkins and Finney have both reported catching smaller

pike this year. The public meeting in Grand Junction is scheduled for Tuesday, August 14 from 7:00 – 9:00 p.m. here at the Holiday Inn. Pat encouraged the Biology Committee to attend.

6. Recommendations for review and approval of nonnative synthesis reports – Pat Nelson thanked those who have submitted reviews. Pat needs to know of anyone else who plans to submit comments. The Management Committee has strongly encouraged PI's and Biology Committee members to get the final two synthesis reports done and comments submitted on all the synthesis reports. This effort is of great importance and the Management Committee would like the Biology Committee to establish a realistic schedule and stick to it. John Hawkins has said his synthesis report will be out at the end of July (with comments from the Biology Committee due within 2 weeks). Lori Martin's synthesis report won't be available until this fall, although Tom Nesler thought it could be submitted more quickly if the 2006 annual report and synthesis report were combined into one. The Committee agreed. >Tom Nesler will ask if Lori Martin can complete her synthesis report by the end of August (with comments from the Biology Committee within 2 weeks). Comments on synthesis reports submitted to date are still pending from reviewers Rich Valdez and Tom Nesler. The Committee agreed to a goal of November 1 to **finalize** all the synthesis reports. Comments are due on all synthesis reports already submitted by August 15. Kevin Bestgen commented that most of the synthesis reports are fairly short on actual *synthesis*. The Committee discussed the need for a broader synthesis of all the Yampa River data (rather than reach-by-reach). Tim Modde said he'd like to see another field worker nonnative fish meeting this year, preferably before the nonnative fish workshop (which should help better focus discussion at the workshop).
7. Nonnative Fish Strategy update – Pat Nelson said Management Committee members have agreed to get their comments to Pat on the draft Yampa nonnative fish strategy by August 1. Bob Muth said the Management Committee discussed what the strategy should contain: just the criteria (targets) and how what we're doing to reach those, or should it contain all the data (thus requiring completion of all the synthesis reports first). Melissa Trammell said she thinks we at least need to have the data available (especially movement data) in order to finalize the strategy. Bob said John Hawkins has indicated that this year's data are very different and will affect the way we look at our work on the Yampa. Bob would like to keep the strategy fairly straightforward (the targets and what we're doing to achieve them). This would allow the strategy to be used both by the program and the Colorado Wildlife Commission. The Committee agreed with Bob Muth's approach and agreed to >submit comments on the draft strategy to Pat and Rich by August 1. Melissa noted that some of her comments would be directed toward the need for more strategic direction in the document. Tom Chart agreed, and suggested that the strategy should not be so data-dependent that it must be revised every year. Tom Nesler said he's highlighted a number concerns in the draft strategy – most of which are comments made by researchers rather than conclusions substantiated by data.
8. Internet map server demonstration – George Smith introduced Don Meyer of the Colorado River Water Conservation District and programmer Karen Holt (via phone) to demonstrate the ARC-MIS internet map server with razorback capture data. The system

allows a spatial view of the data. The website is <http://65.15.243.91/fishdata/main.html>, username fishdata, password razorback. Don distributed a handout of screenshots and demonstrated those online, showing available layers, how to conduct searches, print maps, etc. One of the most useful functions of this tool is the ability to see all captures for a particular fish (PIT tag number). Chuck McAda suggested we need Biology Committee input on what they'd like to be able to do with this tool. Karen said that she can import data from Access or Excel. Chuck doesn't believe we should use GIS for all of our data (programming costs likely would be cost prohibitive), but sees this tool as very useful for general searches of our rare fish data. The Committee suggested seeing the data in tabular (columned) form would be helpful. Chuck asked if it would be possible to click on a link to retrieve the whole Access file. Melissa Trammell suggested we'd need to work with this awhile to discover the ways we want to use it. The Committee discussed how the San Juan Program is using GIS and Internet map servers and the potential to learn more about that. George said we've reached the end of the funds provided to date and there's \$6,500 in next year's budget to add the other three species and perhaps add other capabilities. Despite the amount of data available in GIS in the San Juan Program, Chuck said people still call the PI's for specific data. The Committee agreed that at a minimum, they'd like to see the capture data for Colorado pikeminnow, humpback chub and bonytail added. >Biology Committee members may send George examples of queries they'd like to be able to make and encouraged PI's to check out this Internet map server (see URL, above) and submit comments, as well. >George will send out a summary of questions from this meeting and the URL of the website so people can try it out. Reflecting on considerable experience with GIS in Alaska, Shane Capron suggested we'll want data available in a way that's easy to download and that this kind of internet map server is helpful for general information, but not for highly analytical questions. More analytical questions, e.g., overlap of native and nonnative densities, would require an in-house GIS specialist, as opposed to a general internet map server. Karen said a generic query function could be made if we think the users will be fairly sophisticated.

ADJOURN 4:20 p.m.

Tuesday, July 17

CONVENE 8:00 a.m.

9. Review of draft FY 08-09 work plan – The Committee discussed the Program Director's recommended draft work plan (e-mailed by Angela Kantola on 6/26/07, with scopes of work at <http://www.fws.gov/mountain-prairie/crrip/sow.htm>).

85f – >Shane Capron will get a firm commitment from Clayton Palmer and Kirk LaGory re: Western's contribution to this project's final report in FY 2009. Dave Speas asked if we'll need to collect data in the Ouray reach and if that's in the scope. George said it's not; if that were done, it would be in work following from the Flaming Gorge Study Plan.

FR-Duchesne >George Smith will get an estimate on the report cost for FY 09.

New start (Reach 2 backwater dev...) – Dave Speas noted that the bulk of the information to be synthesized for this work is in the hands of USGS and Western Area Power Administration; if they're capable of doing the work, we may want to reconsider the need for an RFP. George said he believes Cory Williams of USGS could work with Argonne quite capably. >Dave Speas will talk with Melynda to see if an RFP is required and let Bob Muth know so that he can make a recommendation to the Program as to how to best accomplish this work.

C-4bRed – Tom Nesler asked about the cost increase and wondered about long-term O&M costs post-recovery. Chuck McAda cited salary and gas cost increases as the reason for the FY 08 costs. This SOW could be combined with GVP for 2010-2011 if both will be operated continuously in the future.

C-4bGVP – Tom Chart asked why catfish are being returned to the river alive; Chuck McAda said they capture only a few hundred catfish per year in Redlands and GVP and removing that very small portion of the catfish population is probably not worth the resulting angler ire.

C-6 Hyd – Pat Nelson said Reclamation has carry-over funds to do some follow-up work on Grand Valley floodplains when flows are adequate (they weren't this year). >Pat will add the existing SOW to the work plan. Dave Speas suggested these funds may not carry over if they're not spent in FY 07.

RZ-RECR – Dave asked about any updates on June sucker; Krissy said they didn't get the array deployed as quickly as they'd hoped, but they still were able to gather a great deal of information in the 2 weeks they used it (and this was with 125 mHz tags which are only read at a distance up to ~18").

SYNTH – Similar to the backwater study, the bulk of this information has been collected by two agencies, but in light of the many complex questions we haven't addressed, Dave Speas suggested that perhaps an RFP is appropriate for this study. >Pat Nelson and Dave Speas will discuss the draft RFP.

146 – Dave Speas said funds were obligated for FY 06 that are available for FY 07 work on Yampa entrainment. >Bob Muth and John Hawkins will discuss how to revise the scope of work. FY 08 costs are to be determined, but some funds obligated in FY 06 may be applied to FY 08, as well.

Wahweap Hatchery – Krissy outlined the difficulty UDWR has had keeping billing up to date. They will use a new tracking process in FY 08 to track expenditures from the beginning of the contract. Significant funds (~\$200K) remain in the contract from previous years at this point; >by August 10, Krissy will let Dave Speas and Angela know approximately how much FY 07 funds are truly needed. Krissy estimates they'll need only ~\$80K instead of the full \$224K they requested for FY 07 (not including the \$31K for flood repairs, which Krissy will append to the FY 07 scope). Angela said this would

help provide some breathing room in the overall FY 08 budget.

Grand Valley Hatchery – Chuck McAda said they’ve been unable to get a solid estimate from the HVAC company on repairs needed (for de-humidifying). In addition, there is considerable insulation and wall damage that needs to be repaired and mold issues to be addressed. Reclamation would like to fix the dehumidifying problem first. Chuck said he doesn’t believe they’ll have the estimate they’ll need to be able to spend funds on this in FY 07. >Tom Czapla will work to get this resolved as soon as possible.

151 – >Tim Modde will follow-up on the cost for bringing young *Gila* into captivity.

Baerer Bend – This hasn’t been included in the table yet, but the work likely will be done in FY 08. The current cost estimate is \$8,000.

144 – Green River fish response to nonnative management is tied in with 138, YOY monitoring (additional backwater sampling every 5 miles). Tom Chart said he’d like to see more detail in #144 regarding how the additional \$30K will be expended; Dave Speas agreed. Pat Nelson said that detail will be included in the final FY 08-09 scope of work, assuming that work doesn’t change (Pat noted that he took all the budget detail out of all the draft nonnative scopes and it will be put back in after the nonnative fish workshop).

149 – >Bob Muth will ask Dave Campbell about San Juan funding for the cyprinid key.

132 – FY 08 costs are \$78,843 per Krissy, >Tom Czapla will check on this.

Cataract Canyon – Melissa Trammell noted that if we don’t do any monitoring in Cataract in 2008, we wouldn’t have sampled for 3 years. >The Program Director’s office will make a recommendation to the Committee as to the meaning of “periodic monitoring” in Cataract Canyon. Melissa encouraged not waiting too long and recommended sampling no later than FY 09.

10. Northern pike in Rifle Gap Reservoir – Dave Speas said it seems this population has expanded. Signs are in place asking anglers not to return pike alive to the reservoir, and CDOW has discussed a pike derby there. There is no bag limit, of course. Some anglers would like to see walleye stocked there and don’t seem motivated to promote pike removal until that happens. The outlet works are not screened and Dave Speas expressed concern about potential escape if the reservoir gets low due to drought. >George Smith will talk to Pat Martinez and Sherm Hebein and also provide the information (outlet works elevation, etc.) he has on this reservoir (operated by the Silt Water Conservancy District). Tom Nesler spoke with Steve Yamashita who said that during the irrigation season, no water from Rifle Gap reaches the river, and no water is expected to be released after the irrigation season during a drought period. Dave Speas and others asked what the management plan is for Rifle Gap (there may not be one at this point). Tom Pitts said he thinks water users would be amenable to operating reservoirs to minimize nonnative fish escapement to the extent that it doesn’t impair their yield, but beyond that, we may need to seek other solutions (e.g., removal, etc.).

11. Follow-up discussion on tagging technology – The Committee has agreed to full duplex tags and a “homemade” full-duplex array in the Stirrup. Bobby Compton’s work on this was very helpful.
12. Floodplain management activities – Pat Nelson said he sent the draft umbrella floodplain management plan with an added introduction explaining the Service position on how we’ll proceed. Pat and Tom submitted questions on plans for Baeser Bend. The Committee discussed the elevation of the levee breach required at Baeser to flood it every 5-6 years (at ~20,000 cfs). >With Tim Modde’s help, George Smith (and others who can join him) will take some rough measurements there this fall. Pat asked what fish Tim proposes to stock; Tim said that this decision should be made by the Biology Committee as part of the annual operating plan. Tom Czapla said he doesn’t believe we need to bolster our fish stocking via putting fish in Baeser (and expressed concern about getting the fish out, etc.) Tim believes mechanical removal will be reasonably successful; the fish will be allowed to migrate out during years with adequate flows to connect the floodplain to the river. Kevin Gelwicks recommended tagging the 1 year-old fish. Dave asked about monitoring out-migration; Tom Czapla suggested considering a PIT-tag array a few years in the future. >Tim will revise the scope of work to address the foregoing discussion and answers to the questions Tom Czapla and Pat submitted. Tim will prepare a separate FY 08-09 SOW for management of the site (vs. construction).
13. Update on study of entrainment in Yampa River diversion structures – Tom Pitts said he and Dan Birch met with Maybell ditch users on June 12. They’re amenable to having the portion of the ditch on public (BLM) lands surveyed this year shortly before irrigation ends this year. At their request, Tom drafted an MOU clarifying everyone’s responsibilities. Tom, Dan, and Bob Muth met with them again last week, and the MOU (for one year) has been finalized. The agreement is to sample this year, then meet again to discuss the findings and what’s needed in subsequent years. John Hawkins will be conducting the survey.
14. Update on fish handling procedures handbook – > Tom Czapla will have a draft to Bob Muth by the end of this week, then it will be sent back to the Biology Committee for review before it is finalized.
15. Review of White River flow recommendations and shortcomings – deferred to next meeting.
16. Review reports due list – Angela Kantola distributed the updated reports due list. Krissy said Trina won’t be able to get the C-6-RZ report to the coordinator until October 1.
17. Schedule next meeting – October 31 – November 1 in Grand Junction; beginning at 1 p.m. on the 31st and hopefully adjourning by noon on the 1st.

ADJOURN 11:35 a.m.

Attachment

Assignments from April 2007 meeting and May 2007 conference call

Update on assignments completed or underway:

1. The Service will discuss Program activities with BLM and other agencies (e.g. NPS, BOR) to develop guidelines for the type of activities (e.g., major construction versus operational) requiring NEPA compliance. *1/18: Pat Nelson and Bob Muth spoke with Dan Alonso who's agreed to talk with BLM; Dan doesn't believe NEPA will be required. Pat will know more next week. 3/1: Dave Irving and Pat Nelson have been in contact with BLM. At present it appears that BLM is supportive of Recovery Program actions to assist in recovery of the endangered fishes. They requested that we submit proposals to them (in NEPA format; for their files) prior to proceeding with certain types of recovery activities (such as rotenoning, pumping, etc.). The need to develop such proposals would be determined on a case-by-case basis after making contact with BLM. 3/7: Pat said a programmatic NEPA will require more effort and he will begin to work on that as soon as he can. 4/23: Pat said this is on hold right now; we'll clarify roles and responsibilities for this during the 4/24 floodplain discussion. Site-specific NEPA, landowner permission, permits, water rights, Section 7, etc., will be the responsibility of the principal investigator. 7/16: Pat Nelson said it appears NEPA will be required on all our proposed work on BLM properties (just finished on the Stirrup; Tim Modde is working on NEPA for Baeser). A programmatic NEPA could take 1-2 years, unfortunately. Tom Chart endorsed the idea of a programmatic if possible. Tom said that if Tim Modde is willing to draft a list of all the possible floodplain activities we may want to do in the Green River, that would be helpful. (Currently working on an EA for Above Brennan, Stewart, and Baeser).*
2. Tom Czapla will develop a no-cost FY 07 scope of work to track getting YOY Colorado pikeminnow from the Green River for Dexter NFH. *In last year's Annual Report, over 300 YOY Colorado pikeminnow were captured in the lower Green River reach. Over 75% of those were collected on the last day. Tom Czapla recommends putting a live well on the boat the last day of the trip to collect up to 100 YOY, then transporting them to the nearest location to meet a hatchery truck from Dexter. Patrick Goddard and Paul Badame will determine the best location to meet the hatchery truck (see email text, below). Normally from the confluence the sampling party heads up the Colorado River to Moab, but with a live well on board that may take some doing. They are also considering going back up the Green River to Mineral Springs. Dexter NFH is willing to make the trip with no cost to the program. The scope of work for project #138 should be modified to reflect this work with no additional costs. Patrick Goddard's 4/17 email said he and Paul had considered the options and believe it would be best to have a hatchery truck meet the boats at Mineral Bottom (mile 52) and they will bring whatever fish they catch upstream that day down to the truck (they also do a gear/people exchange here). They know of some good backwaters where they can capture YOY pikeminnow. They also could run downstream the next day and then run whatever fish we encounter in the next stretch back upstream. Both of these stretches are fairly productive, but Patrick doubts they will get more than a couple dozen of the juvenile CPM. They will conduct 3 trips this summer (September - October). They have live wells on*

the boats with recirculation water, but would be wary of holding fish >6-8 hours (and running up the Colorado from the confluence might be difficult with a full live well). The only difficulty they anticipate is that the road to Mineral Bottom washes out occasionally, but this usually can be anticipated. 7/16: Tom Czaplá said he's working to get some folks with experience sampling YOY fish in the field to help sample these fish.

3. Misti Schriener will talk to Clayton about the Committee's recommendations, including the desire for late-season backwater and aerial photography data, and then will e-mail a proposal to the Biology Committee. 4/24: *No proposal to date; pending Clayton Palmer's approval of funding. Misti said USGS has a hydrolab they are willing to loan. Misti said it's unclear at this point if Argonne will be recommending backwater or floodplain proposal. 7/9: USGS hydrolab not available in 2007. Using FWS-Vernal hydrolab. 7/16: Aerial photography was not done this year and Western did not pursue late-season backwater work.*

Assignments carried over or modified from previous meetings:

1. Tom Pitts will ask the WAC to adopt a report review procedure similar to the Biology Committee's. Tom Pitts will recommend changes to the Program Director's office for discussion at the next Biology Committee meeting. Pending.
2. John Pitlick will revise the channel monitoring report, add Tom Pitts' comments and his responses to the appendix, and post the report to the Biology Committee by early January, and then the Committee will then have 2 weeks to respond. 3/7, 4/24, 7/16: *Pending.*
3. The Program Director's office will send a memo to the Service's Ecological Services offices asking for annual reports on all contaminants-related RIPRAP actions. *Pending. 6/28: The Utah SLC office has been discussing report requirements and format.*
4. The Program Director's office will provide the Biology Committee with a summary of what the White River flow recommendations report said and what the shortcomings were 4/23: *This will be provided to the Biology Committee in advance of the July 16 meeting. 7/16: Deferred to next meeting.*
5. Craig Walker will provide a copy of the report on UDWR's June 2006 Dolores River fish community survey to the Program Director's office. *Tom Czaplá received an e-mail from Craig on April 5th indicated he was in the process of revamping the report for delivery to the Biology Committee by the end of April (and to Czaplá prior to that). Not yet received. 4/24: Craig is amending the report to include Valdez' data and will send a revised report to Tom Czaplá by the end of May. 7/16: Czaplá received report; no endangered fish were found. >Tom Czaplá will post it to the Program website.*
6. Bob Muth will talk to Dave Campbell about funding from the SJRIP for the cyprinid key. 4/24: *Pending (Chuck McAda and Darrel Snyder have been discussing this). 7/16: San Juan Program funding doesn't look promising, although San Juan funding is reflected in the scope of work. Bob Muth will follow up with Dave Campbell.*

7. Dave Irving will run Dave Speas' peer review request of the stock assessment by Bruce Haines and he and Dave Speas will discuss this with Tim Modde, also. 4/24: Bruce and Tim will complete this by June 8. 7/16: Tim said they will try to have draft documentation of the stock assessment completed by the end of July.
8. Craig Walker will provide Tom Czaplá a copy of UDWR's agency review of the Westwater humpback chub report. Craig sent Tom the review comments from three agency reviewers (3-15-07), but no new draft addressing those comments. 4/24: *Craig will find out when the next draft will be provided. 7/16: Still pending. The Cataract report was sent out to the BC on July 12 (under a misleading subject title), but Tom Czaplá needs to review it to be sure the requested information was provided.*
9. Brian Beckley will test whether or using two types of PIT tags in a fish would cause interference. 7/16: *>Dave Speas will follow up on this, although Bobby Compton did address this in his summary.*
10. John Hawkins will change "procedures" to "guidance" and delete "U.S. Fish and Wildlife Service" from the fish handling procedures cover page. Comments on the draft should be submitted to Tom Czaplá and John Hawkins by May 31. Tom Czaplá will do a first-cut revision, and then send it out for broader review. The Program Director's office will take the lead to incorporate comments, make revisions and get this document formalized. 7/16: *Tom Czaplá will have a draft to Bob Muth by the end of this week, then it will be sent back to the Biology Committee for review before it is finalized.*
11. Chuck will revise and finalize the Black Rocks humpback chub population estimate report. 7/16: *Pending distribution.*
12. Jana will check on water rights for pumping water into Baeser Bend (it may be possible to get a temporary permit or transfer some water rights from Ouray NWR). 7/16: *Jana has checked on this and it is doable, but we're not pumping water into Baeser this year.*
13. Craig Walker and George Smith will work together to finalize the Price River report using the table of exceedances that George provided. Craig will provide a report to George that discusses using surrogate streams, and if it seems appropriate, George will add that analysis. 7/16: *George said he didn't receive anything other than reference material on this and Craig has now taken another job within UDWR. George said he believes the work he did looking at the San Rafael is the most appropriate approach; >George will add his San Rafael analysis into the Price Report.*
14. Bob Muth will call Dave Campbell regarding options for compatibility between databases since the SJRIP is moving their database to FWS. 7/16: *Bob Muth said Dave agrees this is a good idea and will be getting back to Bob on how to proceed.*

New Assignments (July 16-17):

1. Angela Kantola will revise the May 9 conference call summary to reflect Tom Chart's suggested changes (posted to the fws-colorriver listserver on May 15).
2. Tom Nesler will ask if Lori Martin can complete her synthesis report by the end of August.
3. Biology Committee members will submit comments on the draft nonnative fish strategy to Pat Nelson and Rich Valdez by August 1.
4. George Smith will send out a summary of questions from this meeting and the URL of the website (<http://65.15.243.91/fishdata/main.html>, username fishdata, password razorback) so people can try it out. Biology Committee members may send George examples of queries they'd like to be able to make and encouraged PI's to check out this internet map server and submit comments, as well.
5. Shane Capron will get a firm commitment from Clayton Palmer and Kirk LaGory re: Western's contribution for additional report costs for this project 85f (sediment monitoring) in FY 2009.
6. George Smith will get an estimate on the Duchesne sediment monitoring report cost for FY 09.
7. Dave Speas will talk with Melynda to see if an RFP is required for the Green River new start on backwater/sediment availability/peak flows and let Bob Muth know so that he can make a recommendation to the Program as to how to best accomplish this work.
8. Pat Nelson will add the existing C-6 Hyd scope of work to the FY 08-09 work plan.
9. Pat Nelson and Dave Speas will discuss the draft floodplain vs. flow synthesis RFP.
10. Bob Muth and John Hawkins will discuss how to revise the Yampa entrainment scope of work.
11. By August 10, Krissy Wilson will let Dave Speas and Angela Kantola know approximately the FY 07 funds truly needed for the Wahweap Hatchery. (Krissy estimates they'll need ~\$80K instead of the full \$224K they requested for FY 07 [not including the \$31K for flood repairs, which Krissy will append to the FY 07 scope].).
12. Tom Czapla will work to get the questions regarding what hatchery repairs are needed at Grand Valley resolved as soon as possible.
13. Tim Modde will follow-up on the cost for bringing young *Gila* into captivity.
14. Tom Czapla will check on FY 08-09 costs for #132 (Westwater humback chub population estimate).

15. The Program Director's office will make a recommendation to the Committee as to the meaning of "periodic monitoring" in Cataract Canyon.
16. George Smith will talk to Pat Martinez and Sherm Hebein and also provide them the information (outlet works elevation, etc.) he has on Rifle Gap Reservoir (with regard to: concerns about potential northern pike escape).
17. With Tim Modde's help, George Smith (and others who can join him) will take some rough measurements of the elevation of the levee breach required at Baeser to flood it every 5-6 years (at ~20,000 cfs).
18. Tim Modde will revise the Baeser scope of work to address the Committee's discussion and answers to the questions Tom Czaplak and Pat submitted. Tim will prepare a separate FY 08-09 SOW for management of the site (vs. construction).