

**CHIRICAHUA LEOPARD FROG  
MOGOLLON RIM STEERING COMMITTEE MEETING  
MEETING NOTES  
March 12, 2014  
USFS Payson Ranger District**

<b>Attendees</b>	
Christina Akins (AZGFD-Phoenix)	Abigail King (AZGFD-Phoenix)
Dan Groebner (AZGFD-Pinetop)	Shaula Hedwall (USFWS)
Nate Yorgason (FS Tonto NF SO)	Bill Burger (AZGFD-Mesa)
Jill Oertley (Coconino NF, Mogollon Rim)	Cody Mosley (AZGFD-Phoenix)
Stuart Wells (Phoenix Zoo Conservation Center)	Julia Camp (Coronado NF, Flagstaff & Mogollon Rim)
John Wilcox (Tonto NF, Payson & PV)	Brian Peterson (Tonto SO)
Stephanie Coleman (Apache-Stigreaves NF)	Ray Tanner (Cross V Ranch, Payson Allotment)

<b>Agenda Items</b>	<b>Discussion Points</b>
Introductions/Updates	<ol style="list-style-type: none"> <li>1. Cat Crawford is taking over as the CLF lead from Jeff Servoss.</li> <li>2. Continue to include Jeff Servoss on all CLF emails.</li> </ol>
<i>Updates from Recovery Units 5-7: tasks and accomplishments</i>	
Upper Verde Overview	<ol style="list-style-type: none"> <li>1. Tonto Ranger District contracted EcoPlan to conduct incidental surveys within the Upper Verde MA</li> <li>2. AGFD/FS conducted surveys at 10 sites and documented CLFs at 8</li> <li>3. Genetic samples were collected and sent to A. Savage for her work on CLF immunogenetics.</li> <li>4. Upper Moore Tank – toe clipped frogs released for genetic study. Will see how they are doing this year.</li> <li>5. Two egg masses were collected last year for captive rearing at Phoenix Zoo and were later released to several sites within the Upper Verde MA and Gentry MA. One released was to Moore Tank 3 which was a new location. Moore Tank 4 was augmented.</li> <li>6. There are 2 metapopulations they are focusing within the MA: Ellison area and Cabin Draw area.</li> <li>7. Habitat renovations included 1) routine maintenance at Pieper Hatchery Spring and Ellison Tributary 4, 2) silt fence installation above a known CLF site in Cabin Draw, and 3) juniper removal to increase water flows to a drainage surrounding Cabin Draw</li> <li>8. Surveyed 10 sites and documented CLFs at 8</li> <li>9. Detected at least 14 egg masses within the MA</li> </ol>
RU 5 Gentry Creek	<ol style="list-style-type: none"> <li>1. One metapopulation the Crouch-Cherry-Naegelin Rim.</li> <li>2. Surveyed 9 sites, found frogs at all. Reproduction/breeding found in 6 sites.</li> <li>3. Augmented one site in late summer, the tank NE of Naegelin Rim.</li> </ol>

	<ol style="list-style-type: none"> <li>4. Surveyed 17 unoccupied sites to find additional release sites. No natural populations found.</li> <li>5. Detected a salamander die off (~200) at Trail Tank they were going to release at. Took water samples and tissue samples; all were negative for ranavirus. Presumed to be a large rain event that washed sediment and ash from Poco Fire and caused anoxic conditions. The tank was drained twice in 2012 to remove sunfish and bullfrogs. The silt fence was there to prevent bullfrog movement. Due to the salamander die off, the group did not release to trail tank this year.</li> <li>6. Released frogs at 5 sites in Aug/Sept. Egg masses from Pieper Springs were brought to Zoo and Tonto Hatchery to hatch out. Releases were at: Upper Tank, SW of Upper Tank, Ramer tank, Naegelin Rim and Unnamed Tank (=128 Rd. Tank last site).</li> <li>7. No new safe harbors.</li> <li>8. Bullfrog removal has been successful, but continued bullfrog presence/absence monitoring is necessary.</li> </ol>
<p>RU 5 Buckskin Hills</p>	<ol style="list-style-type: none"> <li>1. Buckskin Hills is east of Camp Verde and above Fossil Creek.</li> <li>2. Last year was challenging. Multiple visits to the 5 core pops. The fences at breeding sites were taken down and impacts during breeding season.</li> <li>3. Trying a new fence design at Middle Tank. Shaula has shared with Sharon and will share with the group. Maintenance on existing fence really hadn't occurred and they lasted 5-6 years.</li> <li>4. Continue to have good movement of frogs within the area. Had breeding at all sights and saw decent numbers of frogs. Frogs move into Boulder Spring and other natural site, but they are still a stock tank dependent population.</li> <li>5. Had to try hard to find frogs at Sycamore Basin. Going to transplant.</li> <li>6. Working with FS and permittee to remove tanks with crayfish and then regrade.</li> <li>7. Fossil Creek continues to be a political issue. CBD sued again attempting to still get livestock off the allotment. We will see what happens. Makes it difficult to do much new work because its taking people away to deal with the lawsuit. CBD has been going out and looking at sights. They have been visiting Payson sites for timber removal.</li> <li>8. 2012 Swab from Pine tank was positive for Bd, collected from a dead frog.</li> <li>9. **Abi will double check the data for what the exact site/date is on the Pine Tank swab** Abi will send Bd spreadsheet and Pine Tank specific information to Shaula.</li> <li>10. Abi will put Shaula on the RU6 email list.</li> <li>11. Didn't include number of surveys in the write up or egg masses. Shaula – will remember to do that. Results were sent to the collectors.</li> </ol>
<p>White Mountains Overview</p>	<p>RU 6 has three Management Areas in AZ. There are no metapopulations or robust sites at present. . Need better</p>

	<p>coordination and communication in NM to become more informed on their activities in the 4 Management Areas that are in NM. Is NM RU6 fulfilling any of the delisting criteria?</p>
RU 6 Black River	<ol style="list-style-type: none"> <li>1. Did a handful of surveys at historic locations and current release sites. 73 sites were surveyed between AZGFD and Ecoplan/ASNFs contract. CLF not found except at release sites. Frogs only found right after they were released.</li> <li>2. Using the Pinetop Facility and Bubbling Ponds to headstart egg masses. A Safe Harbor site in Pima also has frogs that are reproducing, but these have not been used to augment wild sites yet.</li> <li>3. In 2012 released over triple the number of what had been released in the past. Still not seeing increases or retention.</li> <li>4. There have been 3 main release sites, but none seem to be working.</li> <li>5. We need to be looking along the Blue River for potential release sites. Cody had ideas for recon in Lanphier Creek, but it is a potential Gila trout recovery stream. If Gila trout group moves forward, it would be renovated to remove brown trout. Lanphier, Grant, KP, Raspberry, Castle, Buckalou, and Coleman Creek are potential Gila trout streams, but Raspberry, Coleman and KP wouldn't require renovation (fishless).</li> <li>6. Coleman Creek is still processing sediment post-fire. Headwaters were all high severity; all snow was melted in watershed a month ago.</li> </ol>
RU 6 Coleman/ Campbell Blue Creeks	<ol style="list-style-type: none"> <li>1. There were 3 surveys, but no frogs found. Last place a wild CLF was seen (2011).</li> </ol>
RU 6 Rudd & Nutrioso Creeks	<ol style="list-style-type: none"> <li>1. Surveyed Rudd and lower Nutrioso Creek but found no frogs and no good release sites.</li> </ol>
RU 6 - Pinetop Facility	<ol style="list-style-type: none"> <li>1. Dan is getting a bunch of egg masses. Need to get them to headstart places. Frank at Bubbling Ponds Hattery wants them the beginning of April.</li> <li>2. Dan will contact Frank and sort out the transfer of either egg masses or tadpoles from several egg masses.**</li> <li>3. Dan will send Abi the memo from M. Rabe stating frog rearing at Pinetop is not a priority to make sure this is changed.</li> </ol>
RU 7 San Francisco R./Blue MA	<ol style="list-style-type: none"> <li>1. Have not seen a frog since Sept 2011 in Coal Creek, Dix Creek and Rattlesnake tank area.</li> <li>2. 2009 – 3 sites Coal Creek, Dix, Rattlesnake tank.</li> <li>3. 2010 – Went from 3 sites to 11 from natural dispersal, particularly within Rattlesnake Gap Complex.</li> <li>4. Late 2011 – many dry or drying tanks, last frog seen in September 2011.</li> <li>5. No CLF found in Coal Creek, Dix Creek, or Rattlesnake Gap during 2012 surveys.</li> <li>6. 2013 – 22 surveys at 15 sites but no CLFs. Lowlands in Left</li> </ol>

	<p>Prong Dix moved to more locations. Lowlands taking over sites previously occupied by CLFs. Want to get CLF back on the ground. Have some compliance and consultation issues that are keeping us from stocking, however, the group plans on releasing frogs to Dix Creek this year with FS support. NM has frogs from Blue River stock.</p> <ol style="list-style-type: none"> <li>7. Would like to release on Black Jack and Hickey given greater chances of a metapopulation but AGFD will wait until compliance documents are in place and permittees are more supportive.</li> <li>8. There are a couple of sites that everyone is comfortable with. Trying to release CLF back in Dix Creek (PV allotment). Christina has met with the Clifton District Ranger on this.</li> <li>9. Compliance issues – the district is working on Wildbunch Allotment grazing; waiting on Hickey and Black Jack allotment consultations to be completed in order to move forward with recovery efforts in other areas.</li> <li>10. Maybe recon Wildbunch in 2014.</li> <li>11. University doing eDNA analysis. Samples were collected from sites where lowlands were present. Going to collect more lowland DNA so they can do more analysis.</li> <li>12. Dix is Bd positive, but hundreds of lowlands there.</li> <li>13. Coal Creek was reconned last year, didn't find any frogs.</li> <li>14. Compliance issues** Shaula will talk with Cat to set up a call for compliance issues with Stephanie, Ryan, Abi, Christina, Yvette, Cat and Shaula</li> <li>15. Ben Goodin (Clifton Range Staff) leaving. Bio detailer is present.</li> <li>16. No releases or habitat restoration.</li> </ol>
RU 8	Information is in the overall Recovery Update document.
CAMP CLF Project Updates	<ol style="list-style-type: none"> <li>1. Helicopter drops for fencing on Clifton for unauthorized livestock in RU7.</li> <li>2. RU5 – don't have a CAMP project because the other RUs are in more need. And need compliance for Box Car area.</li> <li>3. RU6 – looked at Estes and Tenney Pond, Put 3 gill nets and caught paedomorphic salamanders and a sunfish. Want to survey it more. Maybe Safe Harbor with private surrounding or near Tenney Pond.</li> <li>4. Pinetop facility – worked on a cricket room.</li> </ol>
How is the CLF recovery program and plan working for you?	
ID regional successes	<ol style="list-style-type: none"> <li>1. RU5 – Had a spring that was fenced and the frogs left it. Fence was fixed, Lake Payson. Frogs went into the spring and laid eggs.</li> <li>2. Pieper Spring in Gentry is pumping out egg masses. Bullfrog removal was a huge success. No a single bullfrog obs last year.</li> <li>3. Upper Verde had frogs at 9 sites there. Not all may persist, but that's ok.</li> <li>4. Need to make sure all observations are recorded on datasheets.</li> <li>5. Lewis Creek** Christina will get with John Willcox to get the</li> </ol>

	<p>information. Surveyed in April, May and June and didn't see anything.**Christina will make a map of Ellison with numbers.</p> <ol style="list-style-type: none"> <li>6. **Shaula will email the group a new study about posting signs to reduce damage.</li> <li>7. Shaula -close to getting rid of crayfish on an allotment. Going to put in a drinker for livestock and frogs at Divide Tank working with permittee. Trapped and killed crayfish in the Buckskin Hills area. Mechanically dry, pump out, the tank.</li> <li>8. Indian Gardens – South of 260 near Kohl's Ranch- has an overflow with crayfish present. Could we get rid of crayfish by rerouting water and keeping dry. Check sites.</li> <li>9. Pinetop Facility – all the arch is done for the pond and the contractor is falling into place for the outside ponds. Stock <i>R. pipiens</i> there.</li> </ol>
ID Regional Challenges	<ol style="list-style-type: none"> <li>1. Bullfrogs in Gentry MA – successful in stopping reproduction, continuing to monitor</li> <li>2. Lack of resources – FS personnel, PV being dissolved, reorg of FWS, survey crews (FS).</li> <li>3. EcoPlan – surveying late at night, not using VES forms, not following protocol. <ol style="list-style-type: none"> <li>a. ** Shaula, Christina and Abi are going to call Tom/Steve and talk based on Fed/State Permits that have to be met. Shaula will get copies of the survey report and talk to Cat about them.</li> <li>b. **Abi and Stephanie will talk about discrepancies during surveys .</li> <li>c. Will be surveying on the Tonto again, and stock tank cleaning surveys on ASNFs.</li> </ol> </li> <li>4. Clifton sites – NM Blue River frogs are the closest genetically.</li> <li>5. RU6 – Blue River. Fish activities may preclude frog stocking until renovations complete or a plan in place. There may be possibilities outside of trout streams, but will need to talk. Steph and Mike Lopez are pushing for a Blue River Aquatic Management Plan to have communication, coordination with all aquatic groups and the Blue Community. Have a plan.</li> </ol>
Prioritizing captive rearing	<ol style="list-style-type: none"> <li>1. Can collect no more than 2 small egg masses as early as possible from Gentry or Upper Verde to Phoenix Zoo. ASAP. <ol style="list-style-type: none"> <li>a. Would be released back to same MA for augmentation.</li> </ol> </li> <li>2. Abi will be using Bubbling Ponds for masses/tadpoles from Pinetop for RU6 and those will be stocked by June.</li> <li>3. Zoo is being used for RU5, but they have room for 1 more egg mass.</li> <li>4. Higher densities tend to develop faster, but they are smaller. Jury is still out on this because differences are seen between facilities.</li> <li>5. Tonto hatchery – new manager so going through reorg. Have to wait and see how that goes. No commitments for Tonto hatchery this year.</li> <li>6. Egg mass wild to wild transfer. Are there enough people trained and comfortable with it? Are there permitting issues,</li> </ol>

	particularly with USFS personnel?
Greater Collaboration with NM	1. NM FWS receives AZ RU7 emails from Christina. Coordinating a lot with NM due to RU7 needs.
Safe Harbor update: existing enrollees, applicants, and prioritization	<p>1. Safe Harbor Agreements – it's a permit from USFWS for land owners that allows them to manage their private land with assurances that additional regulations will not be imposed relating to T&amp;E on their land. This is a great tool to get land owners involved in restoration: maintaining habitats, reintroducing species etc. They are exempt under a safe harbor agreement from incidental take up to the baseline level of species originally surveyed on the land (most cases result in a baseline of zero). Landowners are able to cancel the agreement at any time with proper notice and the property will have species removed by Arizona Game &amp; Fish Department authorized personnel, returning it to original level of baseline. Landowners will forfeit protection from that point relating to the species.. Participants can sign up as an active land owner or as a neighbor which consist of different management objectives and activities relating to each. Landowners can also take advantage of partners funding which is available on a case by case basis but can be used to improve habitat such as installation of wells and ponds for both frogs and cattle.</p> <p>2. Two main Safe Harbor agreements exist within area –Sundt Pond located in Pima, Arizona which has frogs for RU6 from the Three Forks Stock and the Gann Pond, located near Concho, Arizona.</p> <p>a. Gann Pond is having issues maintaining water levels, but a solar pump that may be capable of pulling from the deep well is being sought as a replacement for the existing propane system. Avian predators could potentially be an issue in the area because of sightings. Would be a refuge population only but is an existing Safe Harbor Site. Questions exist as to which stock it might hold and from what RU.? Partners funding is being sought for installation.</p> <p>3.</p> <p>4. Proposal to use the spinedace refugia as Grasslands, because it's a closed system for frogs. Doesn't have the avian predators. It's got steep sides and no basking habitat.</p> <p>a. Abi wants to find a metapopulation site.</p> <p>b. Crosswhite's property has some off channel things.</p> <p>5. Ray Tanner asked about elevation and CLF. Klein's Pond is reliable-possible release site.</p> <p>6. Maybe we need to find lower elevation release sites. Also release adults and subadults to see if they do better.</p> <p>7. Pima Headstart frogs are breeding within a year and producing egg masses. But much lower elevation. Safford elevation is 2800 ft, but frogs doing well. Fenced in and no predators.</p> <p>8. Star Valley Pond doesn't always have water, but possible for</p>

	<p>Safe Harbor(?)</p> <p>9. Different elevation for Mogollon Rim RU's. Shouldn't let the lower end of the elevation stop us from trying.</p> <p>10. Don't get stuck on going back to the same sites to make them work. Put frogs at many different sites and see how they can go. Complexity of habitat should allow them to do well, but try and see. Don't force sites to work because they probably won't.</p>
<i>Other Updates/Announcements and Misc. News</i>	
Facilitating Annual Recovery Updates	<ol style="list-style-type: none"> <li>1. Draft Recovery Update Available, trying to sort out format, etc. for it.</li> <li>2. Last time an update was done was 2010. Mike resurrected the Updates and a draft if available so we can track recovery.</li> <li>3. 5 year Review is due in 2017.</li> <li>4. These were being done and were wonderful.</li> <li>5. Develop a mechanism to resurrect the Annual Recovery Updates</li> <li>6. Want everyone to look at and make sure that everything is captured that folks think should be.</li> <li>7. At the end of each RU, add in challenges, successes, etc.</li> <li>8. If we have any RU6 input and Abi will incorporate**Abi will send the spreadsheet to send out to the initial conference call group.</li> <li>9.</li> </ol>
Everything Old is New Again!...Reporting to the New Long-term Recovery Database	<ol style="list-style-type: none"> <li>1. Spent some time last year talking about fields needed.</li> <li>2. Probably going to start putting data in before the DB is final.</li> <li>3. Another reason to send the VES data sheets to Abi/Christina by Nov. 1<sup>st</sup> so they can enter the data.</li> <li>4. All negative and positive data.</li> <li>5. People going out to do field survey should be differentiating between juvenile and adults in herp observations section in the datasheet – this will provide data for specific fields in the long-term recovery database</li> <li>6. MA leads need to provide data for this.</li> </ol>
Update on molecular work with CAP funds	<ol style="list-style-type: none"> <li>1. 2004 mtDNA and eDNA, there were unexpected outcomes. Wasn't meant to be a comprehensive study.</li> <li>2. 2011 – genetics on R. fisheri and compared to CLF samples. Bottom line, there was a relationship between R. fisheri and CLF. Hekkala et al. suggested there may be a distinction between northern and southern CLF.</li> <li>3. Another group is trying to sort out phylogenetics tree. Trying to work out some oddities. Also used R. pipiens as an outgroup. They have more funding, will be getting more CLF samples and using Montezuma as an outgroup.</li> <li>4. Hans is finishing up their genetics study.</li> <li>5. **Christina will look into the progress of Hans Werner and the Melanie Culver – Hans Werner paper.</li> </ol>
Update on immunogenetics study	<ol style="list-style-type: none"> <li>1. Study with Smithsonian and Phx Zoo. Type of variation these frogs have. CLF only have 5 variations compared to R.</li> </ol>

	<p>yavapaiensis that has lots.</p> <ol style="list-style-type: none"> <li>2. There's a little more variation in Black River, but there's more variability (Three Forks?)</li> <li>3. SE – very little differentiation</li> <li>4. Cabin Draw – highest/most variation</li> <li>5. Which variables are present in highest amounts in frogs that are present with Bd?</li> <li>6. Looking for predisposition for robust populations.</li> <li>7. Sample size is 504</li> <li>8. Toe clipped frogs, what should we do when we find them since they are part of that study? Cohort mark.</li> <li>9. ** Christina will get the cohort marking from David so RU5 can keep an eye out for cohort marks.</li> <li>10. Stewart will send preliminary MHC update to group.</li> </ol>
Update on call playback study	<ol style="list-style-type: none"> <li>1. Mike's been talking about this for the last few years. Martin S. was looking at callbacks for CLF and conspecifics. Would they respond to other calls or white noise? Martin is wrapping up the Heritage Grant Report, it's only draft right now. **Abi and Christina will send out the playback study once final.</li> <li>2. Conclusions <ol style="list-style-type: none"> <li>a. First minute of playback is when they are most likely to respond.</li> <li>b. 31 pops that were initially silent, 45% would respond to conspecifics.</li> <li>c. Generally CLF and lowland were more likely to respond to conspecific than white noise or bullfrog.</li> <li>d. 10% responded stronger to yavapaiensis call.</li> </ol> </li> </ol>
RACH workshop – location	<ol style="list-style-type: none"> <li>1. Will be held in Payson again. However, we will not be able to stay the College for Day 1 of the workshop because the state wants a certificate of insurance/liability. Wasn't needed last year.</li> <li>2. May be doing it at the Payson Inn (used to be a Best Western).</li> <li>3. Be sure to send Christina to get names of seasonals signed up that need it.</li> <li>4. May 28-29, 2014. Same sites as last year will be used.</li> </ol>
Partners for Fish and Wildlife Service Update	<ol style="list-style-type: none"> <li>1. Mainly a funding source for private land owners for habitat improvements, etc.</li> <li>2. They are looking for projects.</li> <li>3. \$25K maximum amount and there needs to be a match of some sort (in-kind).</li> <li>4. It is reimbursable.</li> <li>5. USFWS Program</li> </ol>
Gartersnake Listings and Critical Habitat	<ol style="list-style-type: none"> <li>1. Expecting to publish final rule in July.</li> <li>2. The listing will come first and the critical habitat a couple months later.</li> <li>3. Extensive comments internally and externally.</li> <li>4. YBC schedule is supposed to be published end of summer. But Shaula thinks it'll be next year.</li> <li>5. There are going to be changes made and every single comment is</li> </ol>

	being looked at and analyzed. Some things a lot different.
Action items/assignments	<ol style="list-style-type: none"> <li>1. Abi will scan sign in sheet and notes and send to Stephanie</li> <li>2. Abi will send Shaula the Bd spreadsheet and Pine Tank specific information that came up Bd+.</li> <li>3. Abi will put Shaula on her RU6 email list for all information.</li> <li>4. Shaula will talk with Cat Crawford to set up a call for compliance issues statewide/ASNFs with Stephanie, Ryan, Abi, Christina, Yvette, and Shaula.</li> <li>5. Dan will send Abi the memo with Regional priorities from Frank.</li> <li>6. Dan will contact Frank to set up transfer of egg masses.</li> <li>6. Abi will talk with Steve Hale about quality of EcoPlan data.</li> <li>7. Christina will make a map of Ellison Creek for John with AZGFD number's.</li> <li>8. Shaula will email the group a new study about posting signs to reduce damage.</li> <li>9. Abi will send group on today's call the draft spreadsheet for the long term database (AZGFD).</li> <li>10. Christina will look into the progress of Hans Werner? Was the Melanie Culver – Hans Werner paper ever finished?</li> <li>11. Christina will get cohort marking from David so RU5 can keep an eye out for cohort (toe clip) marks.</li> <li>12. Christina will look into lower Moore sample from October.</li> <li>13. Stuart will send preliminary MHC update to group.</li> </ol>
Schedule next meeting	Thursday, January 29, 2015

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