

From: [Tony Robinson](#)
To: [Andy Makinster](#); [Bill Stewart](#); [Tim Grosch](#); [Kyle Yarush](#); [Andrea Steffen](#); "[brogers@tnc.org](#)"; "[brookem@email.arizona.edu](#)"; [Clayton Crowder](#); [David Boyarski](#); [Don Mitchell](#)"; "[Doug_Duncan@fws.gov](#)"; [Duane Aubuchon](#); "[fish.dr@asu.edu](#)"; "[Heidi_Blasius@blm.gov](#)"; [Jason Kline](#); [Jeff Sorensen](#); "[Jeff_Simms@blm.gov](#)"; "[Jeffery_Conn@blm.gov](#)"; "[jeprice@coastal.edu](#)"; [John Bacorn](#); "[kwiley@tnc.org](#)"; "[Mary_Richardson@fws.gov](#)"; "[mhaberstich@TNC.ORG](#)"; "[pnr@email.arizona.edu](#)"; "[rclarkson@lc.usbr.gov](#)"; [Ross Timmons](#); [Ryan_Gordon@fws.gov](#); [Sharon Lashway](#); "[swilliams@land.az.gov](#)"
Subject: 2011 Annual Fish Monitoring of Muleshoe CMA---Tentative Schedule and Revised Monitoring Plan
Date: Wednesday, August 31, 2011 10:29:12 AM
Attachments: [Muleshoe_CMA_Monitoring_Plan_Draft_20110830.docx](#)
[Equipment list for Redfield Annual Monitoring Sept-2011.doc](#)

All,

I received mixed feedback with respect to doing the monitoring on the weekend of September 17-18. But I thought I would send out a tentative schedule and see if we can get enough people to complete the sampling over 3 days (the weekend plus Monday). If we can't get enough people on the weekend, we will likely shift the monitoring to Sunday through Tuesday. And waters sampled on a given day can also be shifted, as I know there are people who really want to sample a specific water. Anyway, take a look at my proposed schedule, and let me know which days (if any) you can help out, or how many people you can provide. Or let me know how you would like the schedule modified---nothing is fixed in stone at this point.

So far, I know I can commit 3 AZGFD CAP Program people every day. We will bring up most equipment necessary for sampling, plus one UTV.

Also attached is the latest revised version of the Monitoring Plan, and AGFD's list of needed equipment. Note, I am expecting TNC or BLM to provide one electrofisher and associated equipment.

2011 Muleshoe CMA Fish Monitoring Tentative Schedule. Total people needed each day are presented in bold type.

Day	Water/Crew	#People	# Crew Leaders	Departure Time from HQ
Saturday 9/17	Headquarters sites (Larry&Charlie Tank, Secret Spring, Headquarters Spring)	4	2	10:00 am
	Upper Swamp Springs	2	1	10:00 am
	Cherry Spring	2	1	10:00 am
		8	4	
Sunday 9/18	Redfield Canyon lower sites	3	1	7:00 am
	Redfield Canyon upper sites	3	1	7:00 am
	Lower Swamp Springs Canyon	2	1	7:00 am
		8	3	
Monday 9/19	Hot Springs Canyon/Reach 3	3	1	7:00 am
	Hot Springs Canyon/Reaches 1-2	3	1	7:00 am
		6	2	

Crew leaders are biologists or people who are highly trained in fish identification.

Saturday: People will need to leave home early in the morning and arrive at the Muleshoe Headquarters by about 9:30 am, so that crews can depart from the headquarters by 10 am.

Eight people will need to spend the night at Muleshoe Headquarters so that the Sunday crews can depart headquarters at 7:00 am. These eight people can be part of the crews that complete the Saturday sampling, or they can travel to and arrive at Muleshoe Headquarters late in the day on Saturday.

Sunday: All eight people drive on UTV's up to the Redfield Canyon trailhead. Everyone hikes into Redfield Canyon; two people hike about 1 km up into lower Swamp Springs Canyon to complete the topminnow/pupfish survey.

Monday: The crew that surveys Hot Spring Canyon reach-3 needs to leave Muleshoe Headquarters at 7:00 am. If only one crew is available to survey reaches 1 and 2, then that crew will also have to leave Muleshoe Headquarters at 7:00 am. If two crews are available to survey reaches 1 and 2, then they need to depart Muleshoe Headquarters no later than 11:00 am.

Anthony Robinson
CAP Projects Program Manager
Arizona Game and Fish Department
5000 W. Carefree Highway
Phoenix, AZ 85086
Office:(623)-236-7376 Cell: [REDACTED]

'Nothing in biology makes sense except in the light of evolution.' Theodosius Dobzhansky

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