

**From:** [Tony Robinson](#)  
**To:** ["brogers@tnc.org"](mailto:brogers@tnc.org); ["Heidi\\_Blasius@blm.gov"](mailto:Heidi_Blasius@blm.gov); ["Mary\\_Richardson@fws.gov"](mailto:Mary_Richardson@fws.gov); ["pnr@email.arizona.edu"](mailto:pnr@email.arizona.edu)  
**Subject:** Help Needed---2011 Annual Fish Monitoring of Muleshoe CMA  
**Date:** Wednesday, September 07, 2011 7:25:11 AM

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All,

I am still trying to figure out if we have enough people to complete the Muleshoe Monitoring in 3 days, and what days those will be. I guess I should have just asked how many people each of the major agencies can provide to help out on the proposed dates. In that respect, I need to know how many people BLM, TNC, FWS, and AGFD can possibly contribute on the days outlined in the table below. I included UA, who may be able to contribute student volunteers, if we can't get enough personnel from each agency. With that information, I should be able to make a definitive schedule of the monitoring.

	Friday 9/16	Saturday 9/17	Sunday 9/18	Monday 9/19	Tuesday 9/20	Wednesday 9/21
AGFD (Tony)						
BLM (Heidi)						
TNC (Bob)						
FWS (Mary)						
UA (Peter)						
Other						

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

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**From:** Tony Robinson  
**Sent:** Wednesday, August 31, 2011 10:29 AM  
**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

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.

<b>Day</b>	<b>Water/Crew</b>	<b>#People</b>	<b># Crew Leaders</b>	<b>Departure Time from HQ</b>
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
		<b>8</b>	<b>4</b>	
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
		<b>8</b>	<b>3</b>	
Monday 9/19	Hot Springs Canyon/Reach 3	3	1	7:00 am
	Hot Springs Canyon/Reaches 1-2	3	1	7:00 am
		<b>6</b>	<b>2</b>	

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.

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