

From: Tony Robinson

Sent: Tuesday, September 17, 2013 2:07 PM

To: Clayton Crowder; 'Ron Day'; 'Bob Rogers'; 'Brooke Gebow'; Don Mitchell; Sharon Lashway; 'Doug Duncan'; Duane Aubuchon; 'Paul Marsh'; 'heidi_blasius@blm.gov'; 'Jeff_Simms@blm.gov'; 'Jeffrey Miller'; 'Richardson, Mary'; 'Jeffery_Conn@blm.gov'; John Bacorn; Ross Timmons; Lara Upton; 'Gordon, Ryan'; Drewyer Pearson; 'Clarkson, Robert'; 'jlark@tnc.org'; Amberle Jones; 'Peter Reinthal'; Jeff Sorensen; Dave Weedman; Matthew O'Neill; Andy Makinster; 'David Gregory Kuhn'; 'Amanda L. Amoros'

Cc: Raul Vega; Mike Rabe

Subject: Summary of Fish Catch for Annual Muleshoe Monitoring September 14-16

All,

We completed the annual monitoring of three of the waters within Muleshoe Ranch Cooperative Management Area during September 14 through 16, 2013. People that helped with the monitoring included Ron Day and Jeff Smith of The Nature Conservancy, Mary Richardson of U.S. Fish and Wildlife Service, Rob Clarkson of U.S. Bureau of Reclamation, and Clay Crowder, Drew Pearson, Amberle Jones, and myself of Arizona Game and Fish Department---thanks to everyone that helped. The table below summarizes our catch of fish in Redfield Canyon (surveyed on Sept. 15) and Hot Springs Canyon (surveyed on Sept. 16). Similar to last year, we did not capture any spikedeace or loach minnow in Redfield Canyon. In Hot Springs Canyon, we did not capture as many spikedeace or loach minnow as last year (56 spikedeace and 85 loach minnow), but numbers were similar to what we captured in 2011 (4 spikedeace and 26 loach minnow). We captured one loach minnow that was less than 40 mm TL, and several others less than 45 mm TL, which does indicate they have reproduced since we last stocked them in October 2011. Also, one of the spikedeace captured was 45 mm TL, which also indicates the species reproduced since they were last stocked in October 2011. Ron Day, the new Muleshoe Ranch CMA manager said that Hot Springs Canyon had flooded (normally dry at Ranch headquarters) seven times since August 1. It had flowed on the night of Sept 14, just two days before we did the survey. The lower catch rates may have been a result of the flooding; we hypothesized the same thing back in 2011.

We also set 10 collapsible minnow traps in Larry & Charlie Tank (up on the hill behind the headquarters), and captured 30 desert pupfish. The pupfish were originally stocked in October 2009. Some of the pupfish capture this year were less than 10 mm TL, indicating that the species is reproducing in Larry & Charlie Tank. Last year we only captured 11 desert pupfish in Larry & Charlie Tank, whereas in 2011 we captured 54.

We did not monitor any of the other waters on the CMA, but did notice Gila topminnow in the road crossing of Hot Springs Canyon to the ranch headquarters which is the outflow of Headquarters Spring.

Summary of Catch for Annual Muleshoe CMA Fish Surveys

Water Name	Reach	Spikedeace	Loach Minnow	Speckled Dace	Longfin Dace	Gila Chub	Desert Sucker	Sonora Sucker	Gila Topminnow	Green Sunfish	Total Fish
Hot Springs Canyon	1	0	7	147	183	11	33	0			381
Hot Springs Canyon	2	14	34	213	155	45	46	4			511
Hot Springs Canyon	3	5	4	44	231	10	8	0			302
Hot Springs Canyon	Total	19	45	404	569	66	87	4			1194
Hot Springs Canyon	Percent of Total	1.6%	3.8%	33.8%	47.7%	5.5%	7.3%	0.3%			
Redfield Canyon	1	0	0	22	8	208	83	19		4	344
Redfield Canyon	2	0	0		12	12		8	117		149
Redfield Canyon	Total	0	0	22	20	220	83	27	117	4	493
Redfield Canyon	Percent of Total	0.0%	0.0%	4.5%	4.1%	44.6%	16.8%	5.5%	23.7%	0.8%	

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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From: Clayton Crowder

Sent: Wednesday, September 04, 2013 10:39 AM

To: Clayton Crowder; Ron Day; Bob Rogers; Brooke Gebow; Don Mitchell; Sharon Lashway; 'Doug Duncan'; Duane Aubuchon; 'Paul Marsh'; heidi_blasius@blm.gov; 'Jeff_Simms@blm.gov'; Jeffrey Miller; Richardson, Mary; Jeffery_Conn@blm.gov; John Bacorn; Ross Timmons; Lara Upton; Gordon, Ryan; Drewyer Pearson; 'Clarkson, Robert'; 'jlark@tnc.org'; Amberle Jones; Peter Reinthal; Jeff Sorensen; Dave Weedman; Matthew O'Neill; Andy Makinster; David Gregory Kuhn; Tony Robinson; Amanda L. Amoros

2ASLDRedfield000276

Cc: Raul Vega

Subject: RE: Assistance for Annual Muleshoe Monitoring September 14-16

All,

To provide you an update.

The dates we have selected due to folks being able to provide the most assistance is September 15 & 16.

AGFD personnel will be departing Phx HQ on Saturday afternoon between 4 & 5pm.

Sunday morning, we will depart for Redfield Canyon, ca. 7:00am. I do need 1 more person for Redfield, although in a pinch we can make do with 5. Any volunteers for Redfield need to keep in mind that the hike into Redfield is moderate to difficult and will need to navigate over boulders and cobbles and under trees and brush once down in Redfield.

Those that will be monitoring Redfield are:

Tony Robinson

Clay Crowder

Drew Pearson

Ron Day

Amberle Jones

Monday morning, we will be conducting monitoring at Hotsprings, those surveying the lowermost fixed reaches as well as the random will depart at 7 am. Those folks conducting monitoring in the upper and mid portion can depart at a later point. I still use the assistance of at least 2 individuals for Hotsprings. I may juggle the crews around depending on who is able to assist, the middle and upper sites are relatively low gradient and no or limited terrain.

Lowermost site:

Clay Crowder

Ron Day

Middle site:

Tony Robinson

Jeff Smith

Upper site:

Drew Pearson

Amberle Jones

Mary Richardson

If you wanted to assist and have any questions please feel free to contact me. Please keep in mind that these dates are fast approaching and I'd like to have a solid idea of who is available as well as providing TNC an idea of how many people may need to camp use Muleshoes facilities if folks stay overnight.

Thanks

-Clay

From: Clayton Crowder

Sent: Wednesday, August 21, 2013 8:45 AM

To: 'Ron Day'; Bob Rogers; 'Brooke Gebow'; Don Mitchell; Sharon Lashway; 'Doug Duncan'; Duane Aubuchon; 'Paul Marsh'; 'heidi_blasius@blm.gov'; 'Jeff_Simms@blm.gov'; Jeffrey Miller; 'Richardson, Mary'; 'Jeffery_Conn@blm.gov'; John Bacorn; Ross Timmons; Lara Upton; 'Gordon, Ryan'; Drewyer Pearson; 'Clarkson, Robert'; 'jlark@tnc.org'; Amberle Jones; Peter Reinthal; Jeff Sorensen; Dave Weedman; Matthew O'Neill; Andy Makinster; 'David Gregory Kuhn'; Tony Robinson

Cc: Raul Vega

Subject: Assistance for Annual Muleshoe Monitoring September 14-18

All,

We will be conducting the annual CAP Muleshoe Monitoring this Fall.

We have set aside the dates of September 14 (Saturday) thru September 18 (Wed) as potential dates to conduct this monitoring.

2ASLDRedfield000277

Whatever dates are selected, the Phx HQ folks will travel on the day before (ie Friday for survey on Sat and Sun) and conduct monitoring at either Redfield Canyon and then the following day at Hotsprings with a departure for Phx HQ after our sampling.

Three Phx HQ folks will be present, so what I need from you folks is your availability to assist at either Redfield, Hotsprings or both.

We need at least 3 more individuals for Redfield Canyon.

We need at least 6 more individuals for Hotsprings Canyon.

I also need to know what people would prefer for survey dates:

Saturday and Sunday (9/14-9/15)

Sunday and Monday (9/15-9/16)

Monday and Tuesday (9/16-9/17)

Tuesday and Wednesday (9/18-9/18)

I realize I'll get a variance of responses regarding survey days, and I'll go with whatever days we get the most assistance.

Please respond to me or Tony regarding your availability and/or additional questions or clarifications. Please feel free to forward this to anyone that may be interested in assisting or that I missed.

Peter, we would certainly welcome any student involvement as well.

Clayton Crowder
Gila River Basin Native Fishes
Conservation Program Coordinator

Nongame Branch
Arizona Game and Fish Department
5000 W Carefree Highway
Phoenix, Arizona 85086

Phone: (623) 236-7666

Cell: [REDACTED]

Email: CCrowder@azgfd.gov

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