

**From:** Tony Robinson

**Sent:** Monday, November 01, 2010 11:28 AM

**To:** '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; 'swilliams@land.az.gov'

**Subject:** RE: Successful Stocking of Native Fish into Muleshoe Ecosystem Waters

All,

Here are the numbers for the fish stocked into Redfield Canyon. Unfortunately one of our helpers stocked some fish without distinguishing between the two species (Clay was off loading the barrel back onto the helicopter), so we do not have hard numbers for the total numbers stocked for each species. Here is the information we do have:

Spikedace==730 stocked and 9 additional mortalities.

Loach minnow==273 stocked and 1 additional mortality.

Spikedace or loach minnow==279 stocked. I would guess that most of these were loach minnow, as that would make the numbers pretty similar to Hot Springs Canyon; but that is only a guess.

Anthony Robinson

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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:** Friday, October 29, 2010 2:17 PM

**To:** '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; 'swilliams@land.az.gov'

**Subject:** Successful Stocking of Native Fish into Muleshoe Ecosystem Waters

All,

Yesterday we completed the fourth annual stocking of native fishes into various waters in the Muleshoe Cooperative Management Area. Thanks to all that helped!

Headquarters Spring: 374 desert pupfish were stocked; an additional 3 pupfish died during the transportation/tempering process. This is the second stocking of desert pupfish into Headquarters Spring; the first occurred in September 2008 when 290 desert pupfish were stocked. Desert pupfish were not observed during monitoring in September 2009 or 2010.

Secret Spring: 311 desert pupfish were stocked; an additional 5 pupfish died during the transportation/tempering process. This is the second stocking of desert pupfish into Secret Spring; 500 desert pupfish were stocked in October 2007. Desert pupfish have been found in subsequent monitoring during 2008, 2009, and 2010, albeit in low numbers.

Hot Springs Canyon: 750 spikedace and 514 loach minnow were stocked in the reach between Bass Canyon and Wildcat Canyon; only one spikedace died during the process. This is the fourth stocking of spikedace and loach minnow into Hot Springs Canyon. Both species were found in monitoring during 2008, 2009, and 2010.

Redfield Canyon: Unfortunately I do not have the hard numbers on spikedace and loach minnow stocked, as one of our team took the Redfield Canyon notebooks home with him; I will send out another email early next week when I get that information. But the numbers stocked should have been similar to what were stocked into Hot Springs. This is the third year that spikedace and loach minnow were stocked into Redfield Canyon; none were stocked in 2009.

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