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Ken Kertell

2010 02 12

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From: Jim_Rorabaugh@fws.gov
Sent: Tuesday, February 02, 2010 2:06 PM
To: Ken Kertell
Subject: Santa Rita Mtns and Vicinity L. chiricahuensis localities 2009
Attachments: Santa Rita Mtns and Vicinity L.docx

Here it is. Note that I categorize the dispersal sites as "Present" even though frogs were absent at most in 2009. It's all about how you define dispersal sites. In my book, they are occupied some years and at some times, but not at others. However, breeding and successful recruitment generally does not occur at 'dispersal' sites except perhaps in wet cycles (Las Posos Gulch Tank). If there is any confusion about which tank is which, I have coordinates for all of these sites.

I find it interesting and curious that frogs were found at so many sites in the east side of the Ritas in 2008, but were largely absent in 2009. Suggests there might have been a series of wet years in that area that allowed for successful dispersal from the key breeding sites (Greaterville Tank, Granite Mtn Tank, and Louisiana Gulch). For the frogs to have gotten that well distributed, there might have been breeding at some of these normally dry sites (e.g. Los Posos Gulch Tank) and subsequent dispersal from those. But its all speculation.

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2/3/2010

Santa Rita Mtns and Vicinity *L. chiricahuensis* populations in 2009

RECOVERY UNIT	POPULATION/SITE NAME	DATE OF LAST LICH DETECTION	DATE OF LAST LICH SURVEY	POPULATION/SITE STATUS	COMMENTS
2	Las Cienegas, Empire Gulch	09	09	Present, Breeding, Not Robust	<i>Bd</i> present for >10 years. Las Cienegas metapopulation.
2	Las Cienegas, Cinco Ponds	09	09	Present, Breeding, Not Robust	Las Cienegas metapopulation. 2008 was first record of frogs at this site in several years.
2	Gardner Cyn (stock tank E Apache Springs), E slope Santa Rita Mtns	08	08	Present, dispersal	2 frogs in 08. Santa Rita Mtns metapopulation.
2	Louisiana Gulch, E slope Santa Rita Mtns	09	09	Present, breeding, not robust	Breeding in two metal tanks. Santa Rita Mtns metapopulation.
2	Box Canyon Tank, northern Santa Rita Mtns	09	09	Present, dispersal	12 frogs found in 09 were at risk of drying, so were moved to Florida Cyn. Santa Rita Mtns metapopulation.
2	Greaterville Road tank #1, E slope Santa Rita Mtns	08	09	Present, dispersal	Frogs absent in 09. Santa Rita Mtns metapopulation.
2	Greaterville Road tank #2, E slope Santa Rita Mtns	08	09	Present, dispersal	Frogs absent in 09. Santa Rita Mtns metapopulation.
2	Oak Tree II tank, E slope Santa Rita Mtns	08	09	Present, status dispersal	Frogs absent in 09. Santa Rita Mtns metapopulation.
2	Oak Tree Cyn Tank, E slope Santa Rita Mtns	08	09	Present, status dispersal	Frogs absent in 09. Santa Rita

					Mtns metapopulation.
2	Highway Tank (Oak Tree Cyn, just E 83), E slope Santa Rita Mtns	08	09	Present, status dispersal	Frogs absent in 09. Santa Rita Mtns metapopulation.
2	Tank (eastern of 4) on FR 4501 (W of Cinder block structure), E slope Santa Rita Mtns	08	09	Present, status dispersal	Frogs absent in 09. Santa Rita Mtns metapopulation.
2	"Greaterville tank" 0.25 mi NW of Greaterville, E slope Santa Rita Mtns	09	09	Present, breeding, robust (?)	Santa Rita Mtns metapopulation. Strongest breeding population in the metapopulation.
2	"Granite Mtn" tank SW of Greaterville, E slope Santa Rita Mtns	09	09	Present, breeding, not robust	2 small tanks and a well. Santa Rita Mtns metapopulation.
2	East Dam, E slope Santa Rita Mtns	08	09	Present, dispersal	Santa Rita Mtns metapopulation.
2	Los Posos Gulch Stock Tank 1.25 miles east of Greaterville, E slope Santa Rita Mtns	08	09	Present, dispersal	60 or more adults observed in 08, but the tank dried and frogs were absent in 09. Probably breeding site in wet years. Santa Rita Mtns metapopulation.
2	West Sawmill Cyn, northwest slope, Santa Rita Mtns	08	08	Present, dispersal	Single leopard frog observed, not IDed to species, but assumed <i>chiricahuensis</i> due to presence nearby and no recent records of <i>L. yavapaiensis</i> in vicinity. Santa Rita Mtns

					metapopulation (may be isolated from east side localities).
2	Florida Work Station, northwest slope Santa Rita Mtns	09	09	Present, status unknown	Single frog observed in 08; however, population augmented from Box Cyn and LA Gulch stock in 09. Marginal breeding habitat. Santa Rita Mtns metapopulation (may be isolated from east side localities).