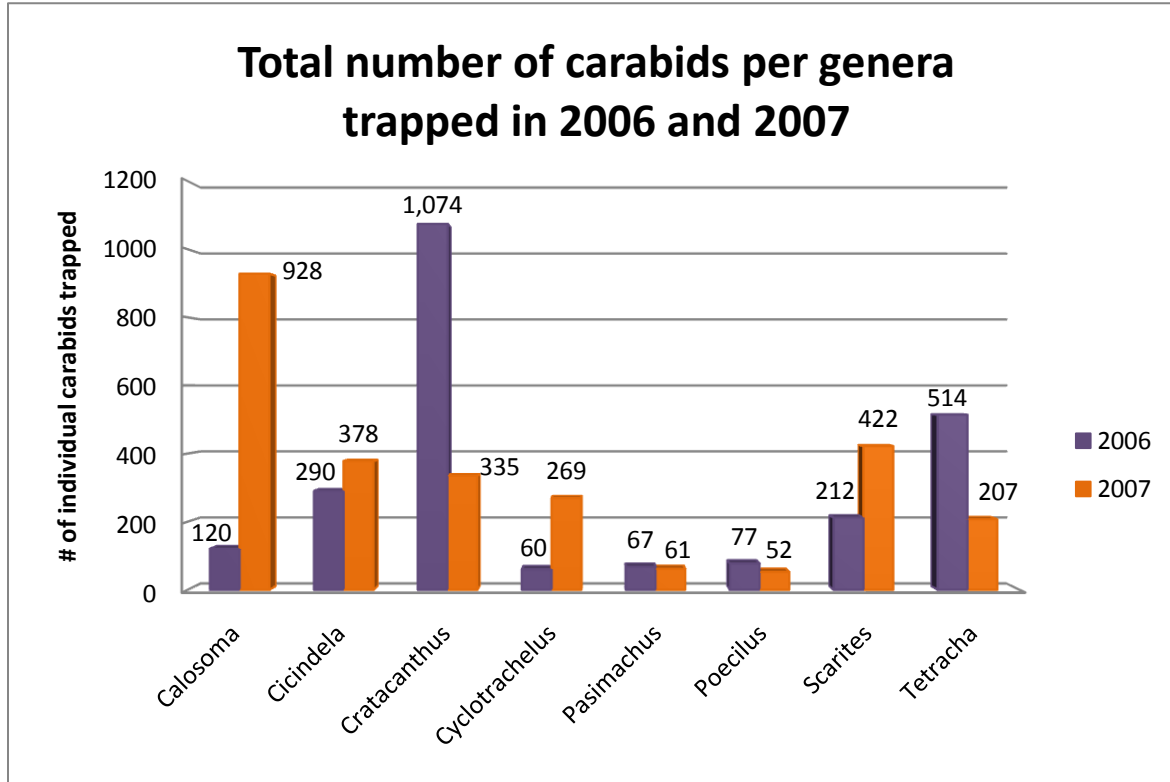


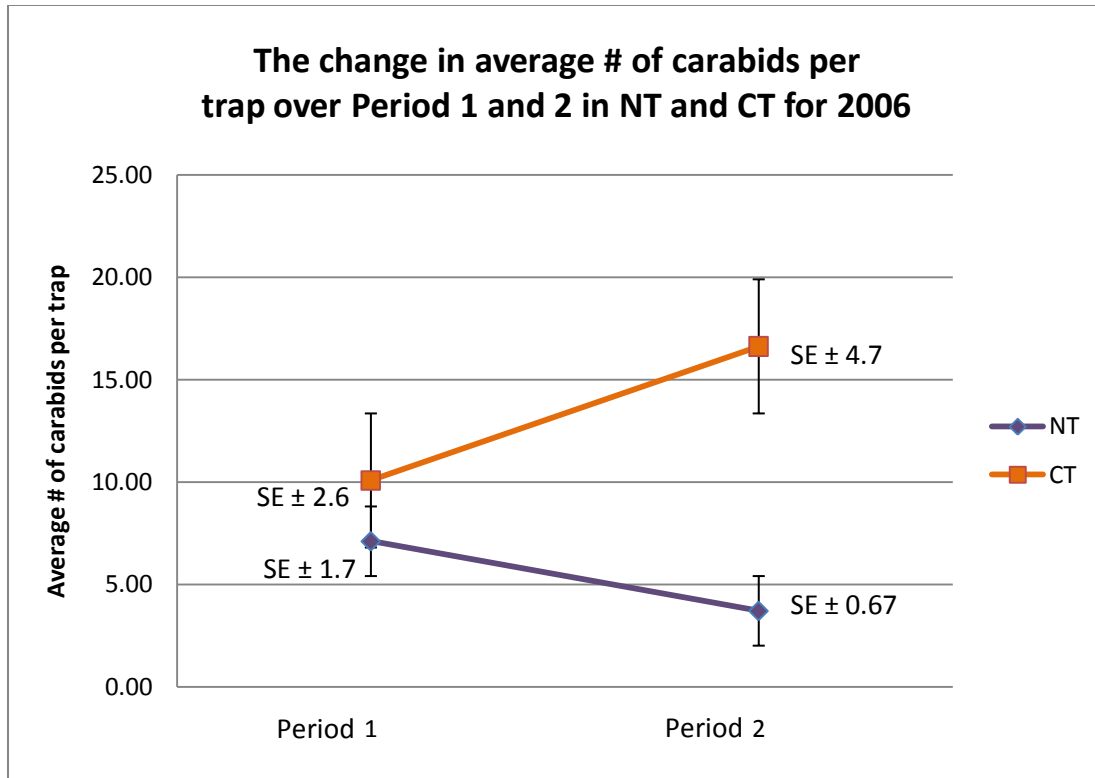
Sarah L. Donelson

2010 SARE Final Report – GS08-066

Conservation of Predatory Carabid Beetles (Coleoptera: Carabidae) in agroecosystems of the Southern Great Plains



Graph 1. The total number of carabids per genera trapped in 2006 and 2007.



**Graph 2.** This graph shows the trend for the average number of carabids per trap in NT to decrease and for CT to increase over time.

# Dispersal Results for 2006

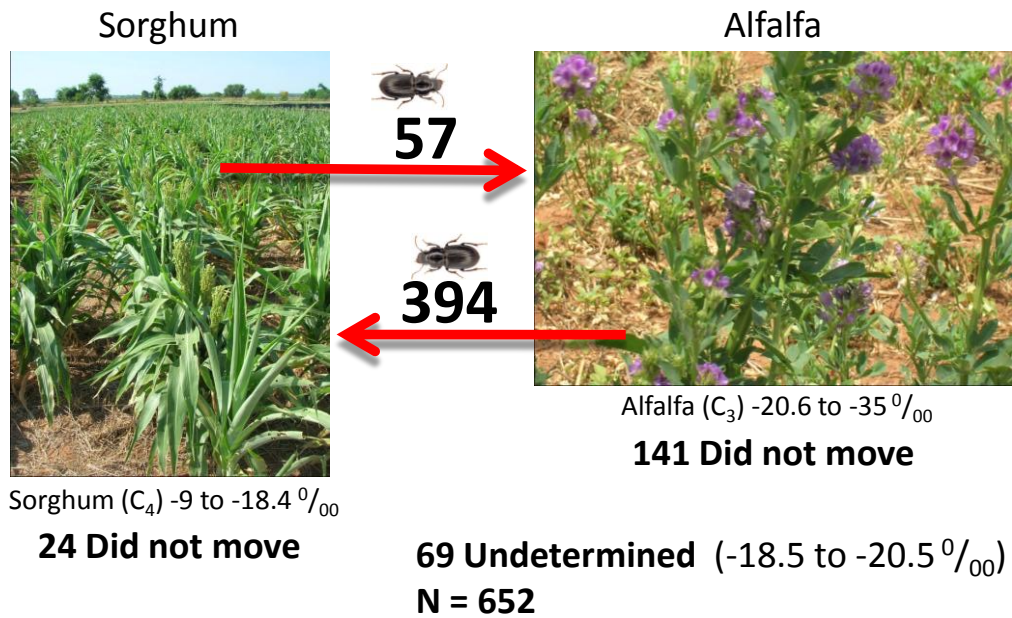


Figure 1. This is 2006 carabid dispersal data within and among habitats based on stable carbon isotope ratios.

# Dispersal Results for 2007

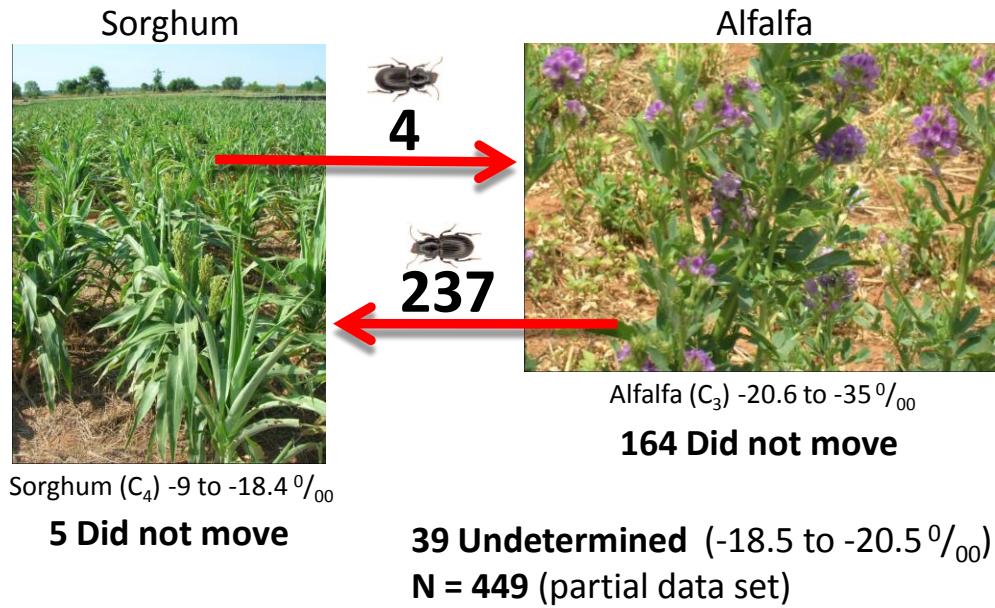


Figure 2. This is partial data for 2007 carabid dispersal within and among habitats based on stable carbon isotope ratios.

2006 Diet Switching Data – Past and Recent Dietary Intake						
DATE	GENUS	SEX	Past	Recent	d <sup>13/12</sup> C <sub>VPDB</sub>	CHANGE
6/23/2006	<i>Tetracha</i>	M	P		-16.89	- 3.21
				R	-20.10	
6/23/2006	<i>Pasimachus</i>	M	P		-15.76	- 6.08
				R	-21.84	
6/23/2006	<i>Pasimachus</i>	F	P		-15.76	- 6.41
				R	-22.17	
6/25/2006	<i>Cratacanthus</i>	F	P		-14.25	- 6.09
				R	-20.34	
7/1/2006	<i>Cratacanthus</i>	F	P		-17.15	- 4.14
				R	-21.29	
7/14/2006	<i>Cratacanthus</i>	F	P		-17.02	- 3.63
				R	-20.66	
7/14/2006	<i>Cratacanthus</i>	F	P		-17.1	- 3.43
				R	-20.52	
7/14/2006	<i>Cratacanthus</i>	F	P		-14.78	- 4.17
				R	-18.95	
7/21/2006	<i>Pasimachus</i>	M	P		-18.59	- 9.17
				R	-27.76	
7/28/2006	<i>Tetracha</i>	F	P		-15.89	- 4.21
				R	-20.10	
8/4/2006	<i>Calosoma</i>	M	P		-18.70	- 4.13
				R	-22.83	
8/11/2006	<i>Cratacanthus</i>	F	P		-15.97	- 6.08
				R	-22.05	
8/19/2006	<i>Pasimachus</i>	M	P		-17.94	- 5.57
				R	-23.51	
8/25/2006	<i>Pasimachus</i>	F	P		-15.12	- 5.27
				R	-20.39	
9/8/2006	<i>Cratacanthus</i>	F	P		-17.01	- 4.07
				R	-21.08	
9/8/2006	<i>Pasimachus</i>	M	P		-14.34	- 6.68
				R	-21.02	

Table 1. In 2006, 16 carabids had “P” and “R” SCIR that indicated diet switching.

2007 Diet Switching Data – Past and Recent Dietary Intake						
DATE	GENUS	SEX	Past	Recent	$d^{13/12}C_{VPDB}$	Change
5/31/2007	<i>Scarites</i>	M	P		-19.95	5.96
				R	-25.91	
6/1/2007	<i>Scarites</i>	M	P		-17.54	7.08
				R	-24.62	
6/1/2007	<i>Calosoma</i>	F	P		-19.25	9.83
				R	-29.08	
6/4/2007	<i>Calosoma</i>	M	P		-19.62	7.41
				R	-27.03	
6/5/2007	<i>Scarites</i>	F	P		-13.17	13.40
				R	-26.57	
6/6/2007	<i>Cyclotrachelus</i>	M	P		-18.20	3.55
				R	-21.75	
6/6/2007	<i>Scarites</i>	M	P		-19.35	4.80
				R	-24.15	
6/6/2007	<i>Calosoma</i>	F	P		-20.32	6.79
				R	-27.11	
6/7/2007	<i>Scarites</i>	M	P		-17.20	10.86
				R	-28.06	
7/19/2007	<i>Cratacanthus</i>	F	P		-20.47	7.01
				R	-27.48	
8/3/2007	<i>Calosoma</i>	M	P		-20.90	5.80
				R	-26.70	
8/3/2007	<i>Pasimachus</i>	M	P		-18.84	5.64
				R	-24.48	

Table 2. This is a partial 2007 data set of carabids showing diet switching.