

Big Bend National Park  
Breeding Bird Surveys

May 2014

By Mark R. Flippo

Big Bend National Park Breeding Bird Survey 2014

Researcher: Mark Flippo

May 28-30, 2014

Report Produced June 8th

# Big Bend National Park Breeding Bird Survey 2014

## Mark Flippo

Annual breeding bird surveys have been performed in Big Bend National Park since the mid 1980s with three prescribed driving routes of 24.5 miles each, following established protocols for monitoring (a three minute period at each half mile of the route for a total of 50 data points for each route). For 2013, three breeding bird surveys were completed in Big Bend National Park between May 28 and May 30: Hot Springs route May 28, Chisos route May 29, Castolon route May 30. May dates, while earlier than most routes run elsewhere in the nation, are authorized for southwest arid zones where breeding species begin nesting earlier than those in more northerly environments and as a time when most migrant species have already vacated the area .

The Hot Springs route tallied a total of 27 species and 344 individuals, the Castolon route tallied 37 species and 353 individuals, and the Chisos Basin route tallied 42 species and 325 individuals.

Species totals increased from 2013 on the Castolon and Chisos routes but dropped slightly on the Hot Springs route, equaling the lowest tally in 18 years (2001). Total individual numbers increased from 2013 on all three routes, a promising trend since the low numbers tallied in the exceptional drought year of 2011. In spite of the increased total number of individuals , the Hot Springs route totals are well below the 17 year average (1997-2013\*\*) for both species and individuals, the Chisos route tallies are only slightly below average for species and individuals , and the Castolon route meets the average for species tallied but likewise falls below average for individuals.

Breeding species composition remained constant as expected. Black-throated sparrow was the most tallied breeding bird on all three routes (216), followed by cactus wren (75), northern mockingbird (60), pyrrhuloxia (55) and mourning dove (53).

Continuing the story of slow but steady recovery from exceptional drought, a look again at two resident species which appear to respond quickly to changing environmental conditions:

Scaled quail numbers increased to 40 from a three route total of 26 in 2013. From 1997 to 2009, SCQU was one of the most common resident breeding species with a three route total average of 84 individuals (High = 180, Low= 50). From 2010 through 2013 the average dropped to 22 individuals (High = 28, Low = 5). Similarly, black-tailed gnatcatcher numbers increased to a three route total of 25, breaking a trend from 2011 to 2013 when the three route total average dropped to 4.6 individuals. From 2005 – 2010 the average was 35 individuals (High = 64, Low = 16).

A surprise was the number of loggerhead shrikes tallied (13) on the Hot Springs route. While the Hot Springs route has consistently yielded more shrikes than the other two routes (why?), the 17 year average is still only 2.2 (High = 6, Low = 0). The 13 shrikes tallied this year, and the four consecutive individuals on four consecutive stops (#21-24), were out of the ordinary. Nation-wide, loggerhead shrike populations are in decline and it is now a species of concern. The improved numbers observed here are encouraging.

New breeding species added to the database include prairie falcon (rare resident and breeder) on the Hot Springs route, western wood-pewee (common migrant and fairly common breeder) and Couch's

kingbird (rare to uncommon and localized breeder) on the Castolon route, and blue-throated hummingbird (common breeder) on the Chisos route.

Finally, Swainson's hawk was added to the Chisos route database last year (2013) with the observation of an adult bird on nest at stop #43 (a first documented nesting of this species within park boundaries). This year another Swainson's was observed at the same stop on the same yucca.

**\*\*17 year BBS averages (1997-2013)**

Hot springs average: 34 species 440 individuals

Chisos Basin average: 44 species 429 individuals

Castolon average: 37 species 393 individuals

## Route Summary

MARK FLIPPO

## Route Summary

**Observer:** F0171 - MARK FLIPPO  
**Route:** HOT SPRINGS, TEXAS (83-082)  
**Run Method:** 101-Standard BBS

## Route Summary Information

**Date Route Run:** 05/28/2014  
**Start Time:** 06:24  
**End Time:** 10:26  
**Start Temp:** 78 °F  
**End Temp:** 88 °F  
**Start Wind:** 1-Wind direction shown by smoke drift [1-3 mph, 2-5 Kph]  
**End Wind:** 2-Wind felt on face; leaves rustle [4-7 mph, 6-12 Kph]  
**Start Sky:** 0-Clear or few clouds  
**End Sky:** 1-Partly cloudy (scattered) or variable sky

## 10 Stop Totals

Species	1-10	11-20	21-30	31-40	41-50	Total ind.	Total Stops
Scaled Quail	0	4	1	9	0	14	11
Turkey Vulture	2	2	1	4	2	11	10
Red-tailed Hawk	0	0	0	0	1	1	1
Mourning Dove	10	15	4	2	1	32	17
Greater Roadrunner	1	0	0	0	0	1	1
Lesser Nighthawk	17	0	0	0	0	17	8
Ladder-backed Woodpecker	0	0	0	1	0	1	1
Ash-throated Flycatcher	4	4	0	0	2	10	9
Western Kingbird	0	0	0	0	1	1	1
Loggerhead Shrike	3	2	5	2	1	13	12
Bell's Vireo	0	0	0	0	3	3	3
Verdin	0	0	0	4	9	13	9
Cactus Wren	1	10	4	7	8	30	20
Rock Wren	2	0	0	0	0	2	1
Bewick's Wren	0	0	0	0	1	1	1
Black-tailed Gnatcatcher	0	0	5	1	2	8	7
Northern Mockingbird	6	5	3	2	4	20	16
Curve-billed Thrasher	0	1	0	1	0	2	2
Rufous-crowned Sparrow	0	0	1	3	4	8	5
Black-throated Sparrow	21	18	25	18	13	95	40
Pyrrhuloxia	9	0	5	0	8	22	14
Blue Grosbeak	1	0	1	0	2	4	3
Brown-headed Cowbird	0	0	0	0	2	2	1
Scott's Oriole	3	5	3	2	0	13	10
House Finch	2	4	3	6	0	15	10
House Sparrow	0	0	0	4	0	4	1
Prairie Falcon	0	0	1	0	0	1	1
<b>Total Species : 27</b>	<b>Total ind. : 344</b>						
Vehicles	1	2	0	8	6	17	13
Noise	0	0	0	0	0	0	0

Data Review

MARK FLIPPO

**Data Review**

**Observer:** F0171 - MARK FLIPPO  
**Route:** HOT SPRINGS, TEXAS (83-082)  
**Run Method:** 101-Standard BBS

**Route Summary Information**

**Date Route Run:** 05/28/2014  
**Start Time:** 06:24  
**End Time:** 10:26  
**Start Temp:** 78 °F  
**End Temp:** 88  
**Start Wind:** 1 - Wind direction shown by smoke drift [1-3 mph, 2-5 Kph]  
**End Wind:** 2 - Wind felt on face; leaves rustle [4-7 mph, 6-12 Kph]  
**Start Sky:** 0 - Clear or few clouds  
**End Sky:** 1 - Partly cloudy (scattered) or variable sky

**Questions**

1. Did you submit these data to the BBS Office via the Internet? Yes  
 2. Do you intend to survey this route next year? (2015) Yes  
     Who will replace? F0171  
 3. Did you complete the route? Yes  
     How many stops were sampled? 50  
 4. If present, were vehicles recorded? Yes  
 5. Did someone accompany AND assist with the route? No  
     Please provide assistant's name.  
 6. Did your assistant record the species data?  
 7. Were you the assigned observer for the route? In other words, is your name printed on the data sheet? Yes  
 8. Were you paid or otherwise compensated by your employer to survey this route? Yes  
 9. Please indicate the number of hours you and any assistants' contribute to the completion of this route. Include time spent on scouting, data collection, data submission, and data review. Round to nearest hour. Obs. - 9  
     Asst. - 0

Species	1	2	3	4	5	
Mourning Dove	1	2			1	Breeder
Greater Roadrunner					1	Breeder
Lesser Nighthawk	1	2	3	4	4	Breeder
Ash-throated Flycatcher	2	1				Breeder
Rock Wren	2					Breeder
Northern Mockingbird					1	Breeder
Black-throated Sparrow		2	4	3	3	Breeder
Pyrrhuloxia				1		Breeder
Scott's Oriole				1		Breeder
House Finch	1	1				Breeder
Number of Vehicles		1				
Excessive Noise	<input type="checkbox"/>					

  

Species	6	7	8	9	10	
Turkey Vulture				1	1	Breeder
Mourning Dove	2		2		2	Breeder
Lesser Nighthawk	1	1		1		Breeder
Ash-throated Flycatcher		1				Breeder
Loggerhead Shrike	1		1		1	Breeder
Cactus Wren	1					Breeder
Northern Mockingbird		1	2	1	1	Breeder
Black-throated Sparrow	4	2	2		1	Breeder
Pyrrhuloxia	2	2	3	1		Breeder

Blue Grosbeak	1					Breeder
Scott's Oriole		1	1			Breeder
Number of Vehicles						
Excessive Noise	<input type="checkbox"/>					
Species	11	12	13	14	15	
Scaled Quail	2					Breeder
Turkey Vulture	1				1	Breeder
Mourning Dove		2	4	2	1	Breeder
Ash-throated Flycatcher				1		Breeder
Loggerhead Shrike					1	Breeder
Cactus Wren	1		3	1	2	Breeder
Northern Mockingbird		1				Breeder
Black-throated Sparrow	1	2	1	1	2	Breeder
Scott's Oriole				1		Breeder
Number of Vehicles	1					
Excessive Noise	<input type="checkbox"/>					
Species	16	17	18	19	20	
Scaled Quail			1	1		Breeder
Mourning Dove	1	4			1	Breeder
Ash-throated Flycatcher			1	1	1	Breeder
Loggerhead Shrike	1					Breeder
Cactus Wren	2		1			Breeder
Northern Mockingbird		1	2		1	Breeder
Curve-billed Thrasher					1	Breeder
Black-throated Sparrow	1	3	3		4	Breeder
Scott's Oriole	1		2		1	Breeder
House Finch		2	2			Breeder
Number of Vehicles	1					
Excessive Noise	<input type="checkbox"/>					
Species	21	22	23	24	25	
Mourning Dove		2				Breeder
Loggerhead Shrike	1	1	1	1		Breeder
Black-tailed Gnatcatcher	1		2			Breeder
Northern Mockingbird	2					Breeder
Black-throated Sparrow	2		6		3	Breeder
Pyrrhuloxia			2		1	Breeder
Scott's Oriole		1			2	Breeder
House Finch				2		Breeder
Prairie Falcon	1					Breeder
Number of Vehicles						
Excessive Noise	<input type="checkbox"/>					
Species	26	27	28	29	30	
Scaled Quail				1		Breeder
Turkey Vulture		1				Breeder
Mourning Dove				2		Breeder
Loggerhead Shrike		1				Breeder
Cactus Wren			2	1	1	Breeder
Black-tailed Gnatcatcher			1		1	Breeder
Northern Mockingbird		1				Breeder
Rufous-crowned Sparrow				1		Breeder
Black-throated Sparrow	4	4	2		4	Breeder
Pyrrhuloxia			1		1	Breeder
Blue Grosbeak		1				Breeder
House Finch			1			Breeder
Number of Vehicles						

Excessive Noise	<input type="checkbox"/>					
Species	31	32	33	34	35	
Scaled Quail	2	1	1		2	Breeder
Turkey Vulture	1		1			Breeder
Loggerhead Shrike					2	Breeder
Cactus Wren	1	1	2	1	1	Breeder
Black-tailed Gnatcatcher					1	Breeder
Northern Mockingbird			1			Breeder
Curve-billed Thrasher				1		Breeder
Rufous-crowned Sparrow	1		2			Breeder
Black-throated Sparrow	2	2	2		2	Breeder
Scott's Oriole			2			Breeder
House Finch			2		1	Breeder
House Sparrow				4		Breeder
Number of Vehicles				2	1	
Excessive Noise	<input type="checkbox"/>					
Species	36	37	38	39	40	
Scaled Quail	1			1	1	Breeder
Turkey Vulture		2				Breeder
Mourning Dove					2	Breeder
Ladder-backed Woodpecker	1					Breeder
Verdin	1			1	2	Breeder
Cactus Wren				1		Breeder
Northern Mockingbird	1					Breeder
Black-throated Sparrow	3		2	4	1	Breeder
House Finch		2			1	Breeder
Number of Vehicles	1	3	1			
Excessive Noise	<input type="checkbox"/>					
Species	41	42	43	44	45	
Turkey Vulture		1			1	Breeder
Mourning Dove				1		Breeder
Western Kingbird					1	Breeder
Bell's Vireo	1					Breeder
Verdin	2	1		1	1	Breeder
Cactus Wren				2		Breeder
Bewick's Wren			1			Breeder
Northern Mockingbird	1			1		Breeder
Rufous-crowned Sparrow		2		2		Breeder
Black-throated Sparrow	2	1	1	2		Breeder
Pyrrhuloxia					3	Breeder
Blue Grosbeak	2					Breeder
Number of Vehicles					1	
Excessive Noise	<input type="checkbox"/>					
Species	46	47	48	49	50	
Red-tailed Hawk	1					Breeder
Ash-throated Flycatcher				1	1	Breeder
Loggerhead Shrike				1		Breeder
Bell's Vireo				1	1	Breeder
Verdin	2			2		Breeder
Cactus Wren	2		3	1		Breeder
Black-tailed Gnatcatcher				1	1	Breeder
Northern Mockingbird				2		Breeder
Black-throated Sparrow	1	1	1	4		Breeder
Pyrrhuloxia	1	1	1		2	Breeder
Brown-headed Cowbird					2	Breeder

Number of Vehicles	2	1	1	1	
Excessive Noise	<input type="checkbox"/>				
Comments					
<b>Breeding birds seen during the survey:</b>					
PRAIRIE FALCON -- At stop #21, near Dugout Wells turn-off, elevation approximately 3000'. An uncommon to rare resident and breeding species in the Big Bend. A single adult bird engaged in a long descending soar above and to the west of observer, finally gliding just above ground level and perching in a large ocotillo. Falcon was immediately mobbed by a northern mockingbird.					
<b>Non-breeding birds seen during the survey:</b>					
<b>Temporary route problems:</b>					
<b>Permanent route problems:</b>					
<b>Route vacancy:</b>					
<b>Miscellaneous notes from the field:</b>					
<b>Stories from the field:</b>					
<b>Other issues requiring staff assistance:</b>					

Data Review

MARK FLIPPO

Data Review						
<b>Observer:</b>	F0171 - MARK FLIPPO					
<b>Route:</b>	CHISOS BASIN, TEXAS (83-900)					
<b>Run Method:</b>	101-Standard BBS					
Route Summary Information						
<b>Date Route Run:</b>	05/30/2014					
<b>Start Time:</b>	06:24					
<b>End Time:</b>	10:36					
<b>Start Temp:</b>	68 °F					
<b>End Temp:</b>	92					
<b>Start Wind:</b>	0 - Smoke rises vertically [ $<1$ mph, $<2$ Kph]					
<b>End Wind:</b>	1 - Wind direction shown by smoke drift [1-3 mph, 2-5 Kph]					
<b>Start Sky:</b>	0 - Clear or few clouds					
<b>End Sky:</b>	1 - Partly cloudy (scattered) or variable sky					
Questions						
<b>1. Did you submit these data to the BBS Office via the Internet?</b>	Yes					
<b>2. Do you intend to survey this route next year? (2015)</b>	Yes					
<b>Who will replace?</b>	F0171					
<b>3. Did you complete the route?</b>	Yes					
<b>How many stops were sampled?</b>	50					
<b>4. If present, were vehicles recorded?</b>	Yes					
<b>5. Did someone accompany AND assist with the route?</b>	No					
<b>Please provide assistant's name.</b>						
<b>6. Did your assistant record the species data?</b>						
<b>7. Were you the assigned observer for the route? In other words, is your name printed on the data sheet?</b>	Yes					
<b>8. Were you paid or otherwise compensated by your employer to survey this route?</b>	Yes					
<b>9. Please indicate the number of hours you and any assistants' contribute to the completion of this route. Include time spent on scouting, data collection, data submission, and data review. Round to nearest hour.</b>	Obs. -					
	10					
	Asst. -					
	0					
<b>Species</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	
Turkey Vulture					1	Breeder
White-winged Dove	2	1				Breeder
Say's Phoebe			1			Breeder
Black-capped Vireo				2		Breeder
Mexican Jay					4	Breeder
Black-crested Titmouse			1		2	Breeder
Cactus Wren		1	2			Breeder
Canyon Wren					1	Breeder
Bewick's Wren					2	Breeder
Blue-gray Gnatcatcher		1	1			Breeder
Northern Mockingbird		1	1	1		Breeder
Spotted Towhee	2					Breeder
Rufous-crowned Sparrow	3	4	3	2		Breeder
Canyon Towhee	1	1	2		1	Breeder
Black-chinned Sparrow				3		Breeder
Hepatic Tanager	1	1				Breeder
Black-headed Grosbeak	2		1		1	Breeder
Blue Grosbeak		2				Breeder
Scott's Oriole		2	1	2		Breeder
<b>Number of Vehicles</b>						
<b>Excessive Noise</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Species</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	

Scaled Quail					2	Breeder
Turkey Vulture		1				Breeder
White-winged Dove			6			Breeder
Greater Roadrunner					1	Breeder
White-throated Swift	2					Breeder
Ladder-backed Woodpecker			1	1		Breeder
Ash-throated Flycatcher			1			Breeder
Black-capped Vireo	1			1		Breeder
Mexican Jay	1	2				Breeder
Black-crested Titmouse	2					Breeder
Cactus Wren			2			Breeder
Canyon Wren	1				1	Breeder
Bewick's Wren				1		Breeder
Blue-gray Gnatcatcher		2	2			Breeder
Northern Mockingbird		1	1	1	5	Breeder
Yellow-breasted Chat				1		Breeder
Spotted Towhee		1				Breeder
Rufous-crowned Sparrow	2	2	1	3	5	Breeder
Black-headed Grosbeak		1				Breeder
Blue Grosbeak		2	2	3	1	Breeder
Blue-throated Hummingbird	1					Breeder
Number of Vehicles					1	
Excessive Noise	<input type="checkbox"/>					
Species	11	12	13	14	15	
Scaled Quail	4	1	1		4	Breeder
Turkey Vulture					1	Breeder
Greater Roadrunner					1	Breeder
White-throated Swift	1					Breeder
Ladder-backed Woodpecker				1		Breeder
Ash-throated Flycatcher			1		1	Breeder
Verdin				1		Breeder
Cactus Wren		1	1			Breeder
Bewick's Wren			1			Breeder
Northern Mockingbird	2	1				Breeder
Rufous-crowned Sparrow			1			Breeder
Black-throated Sparrow	2		2	4	2	Breeder
Pyrrhuloxia		1	1	1		Breeder
Blue Grosbeak	1					Breeder
Varied Bunting	2			1	2	Breeder
Scott's Oriole	1	1	2			Breeder
House Finch		1	2			Breeder
Number of Vehicles			1	4	2	
Excessive Noise	<input type="checkbox"/>					
Species	16	17	18	19	20	
Scaled Quail	2					Breeder
Turkey Vulture			2	2		Breeder
Greater Roadrunner	1					Breeder
Bell's Vireo			1			Breeder
Common Raven				1		Breeder
Verdin	2					Breeder
Cactus Wren		2		1	2	Breeder
Black-tailed Gnatcatcher			1		1	Breeder
Northern Mockingbird					1	Breeder
Crissal Thrasher					1	Breeder
Canyon Towhee	3					Breeder
Black-throated Sparrow	3		2		1	Breeder
Pyrrhuloxia		1	1	1		Breeder

Brown-headed Cowbird	1					Breeder
Scott's Oriole				1		Breeder
Number of Vehicles			2			
Excessive Noise	<input type="checkbox"/>					
Species	21	22	23	24	25	
Scaled Quail			2			Breeder
Turkey Vulture	3			1		Breeder
Ash-throated Flycatcher					1	Breeder
Loggerhead Shrike				1		Breeder
Verdin	1					Breeder
Cactus Wren			1			Breeder
Black-tailed Gnatcatcher	1					Breeder
Black-throated Sparrow	1	2		2		Breeder
Pyrrhuloxia					2	Breeder
Brown-headed Cowbird			1			Breeder
Scott's Oriole		1				Breeder
House Finch			2			Breeder
Number of Vehicles						
Excessive Noise	<input type="checkbox"/>					
Species	26	27	28	29	30	
Say's Phoebe	1					Breeder
Ash-throated Flycatcher					1	Breeder
Rock Wren		1				Breeder
Black-throated Sparrow	3	1		4	2	Breeder
Pyrrhuloxia	1					Breeder
Number of Vehicles	2	1		1	1	
Excessive Noise	<input type="checkbox"/>					
Species	31	32	33	34	35	
Turkey Vulture		1				Breeder
Western Wood-Pewee	1					Breeder
Say's Phoebe	1					Breeder
Ash-throated Flycatcher			1			Breeder
Bell's Vireo	2					Breeder
Black-throated Sparrow		2	2		1	Breeder
Number of Vehicles	2	1				
Excessive Noise	<input type="checkbox"/>					
Species	36	37	38	39	40	
Turkey Vulture		1		1		Breeder
Greater Roadrunner					1	Breeder
Ash-throated Flycatcher	1					Breeder
Western Kingbird			1			Breeder
Common Raven					1	Breeder
Verdin	1				1	Breeder
Cactus Wren					1	Breeder
Black-tailed Gnatcatcher	1					Breeder
Black-throated Sparrow			1	2	1	Breeder
Pyrrhuloxia			1	1		Breeder
Scott's Oriole		1				Breeder
House Finch		2		3		Breeder
Number of Vehicles	1		1	1	2	
Excessive Noise	<input type="checkbox"/>					
Species	41	42	43	44	45	
Scaled Quail				1		Breeder
Bell's Vireo				2		Breeder

Common Raven	1					Breeder
Verdin		1	1	1	1	Breeder
Cactus Wren	1		1	2	3	Breeder
Black-tailed Gnatcatcher				1		Breeder
Northern Mockingbird		1			1	Breeder
Black-throated Sparrow	1				2	Breeder
Pyrrhuloxia		1				Breeder
Scott's Oriole		1		1		Breeder
House Finch				2		Breeder
Swainson's Hawk			1			Breeder
Number of Vehicles						
Excessive Noise	<input type="checkbox"/>					
Species	46	47	48	49	50	
Turkey Vulture		1				Breeder
Mourning Dove			1			Breeder
Verdin	1		1		1	Breeder
Cactus Wren					1	Breeder
Black-tailed Gnatcatcher				2		Breeder
Northern Mockingbird			2			Breeder
Black-throated Sparrow	1					Breeder
Pyrrhuloxia	1			1		Breeder
Brown-headed Cowbird	1		3			Breeder
House Finch		2		2		Breeder
Number of Vehicles	1	1	1	3	1	
Excessive Noise	<input type="checkbox"/>					
Comments						
<b>Breeding birds seen during the survey:</b>						
blue-throated hummingbird -- stop # 6 at about 5500' elevation, just below Pinnacles Pass. Adult male calling. A fairly common breeding bird of the high Chisos Mountains in deep and shaded canyons. Swainson's hawk -- stop #43 adult Swainson's on nest at same yucca as last year.						
<b>Non-breeding birds seen during the survey:</b>						
<b>Temporary route problems:</b>						
<b>Permanent route problems:</b>						
<b>Route vacancy:</b>						
<b>Miscellaneous notes from the field:</b>						
<b>Stories from the field:</b>						
<b>Other issues requiring staff assistance:</b>						

## Route Summary

MARK FLIPPO

## Route Summary

**Observer:** F0171 - MARK FLIPPO  
**Route:** CASTOLON, TEXAS (83-319)  
**Run Method:** 101-Standard BBS

## Route Summary Information

**Date Route Run:** 05/29/2014  
**Start Time:** 06:24  
**End Time:** 10:34  
**Start Temp:** 74 °F  
**End Temp:** 89 °F  
**Start Wind:** 0-Smoke rises vertically [<1 mph, <2 Kph]  
**End Wind:** 1-Wind direction shown by smoke drift [1-3 mph, 2-5 Kph]  
**Start Sky:** 0-Clear or few clouds  
**End Sky:** 0-Clear or few clouds

## 10 Stop Totals

Species	1-10	11-20	21-30	31-40	41-50	Total ind.	Total Stops
Scaled Quail	1	1	3	2	2	9	8
Turkey Vulture	0	0	1	4	5	10	9
Red-tailed Hawk	0	0	1	1	1	3	3
White-winged Dove	9	0	0	0	0	9	6
Mourning Dove	10	5	2	3	0	20	16
Greater Roadrunner	1	1	2	0	2	6	6
Great Horned Owl	1	0	0	0	0	1	1
Lesser Nighthawk	17	0	0	0	0	17	7
Golden-fronted Woodpecker	1	0	0	0	0	1	1
Ladder-backed Woodpecker	1	0	0	1	0	2	2
Say's Phoebe	1	1	0	0	0	2	2
Ash-throated Flycatcher	7	5	1	0	3	16	12
Western Kingbird	1	0	0	0	0	1	1
Loggerhead Shrike	1	0	1	0	1	3	3
Bell's Vireo	4	0	0	4	2	10	7
Verdin	1	0	0	6	3	10	8
Cactus Wren	1	8	7	4	3	23	14
Rock Wren	2	0	0	1	0	3	2
Canyon Wren	0	2	0	0	1	3	3
Bewick's Wren	0	0	2	7	1	10	6
Black-tailed Gnatcatcher	1	3	1	1	4	10	9
Northern Mockingbird	0	0	7	7	7	21	13
Yellow-breasted Chat	11	0	0	0	2	13	5
Rufous-crowned Sparrow	0	0	3	6	0	9	6
Canyon Towhee	0	1	0	0	0	1	1
Black-throated Sparrow	22	19	14	12	10	77	38
Summer Tanager	4	0	0	0	0	4	3
Northern Cardinal	3	0	0	0	0	3	2
Pyrrhuloxia	0	5	6	4	4	19	16
Blue Grosbeak	0	1	0	1	0	2	2
Varied Bunting	0	0	0	2	1	3	3
Painted Bunting	4	0	0	0	2	6	4
Brown-headed Cowbird	0	0	0	4	2	6	4
Scott's Oriole	0	2	2	2	0	6	5
House Finch	6	3	2	1	0	12	7
Western Wood-Pewee	0	0	0	0	1	1	1
Couch's Kingbird	1	0	0	0	0	1	1

<b>Total Species : 37</b>	<b>Total ind. : 353</b>						
Vehicles	0	2	2	1	4	9	8
Noise	0	0	0	0	0	0	0

Data Review

MARK FLIPPO

Data Review						
Observer:	F0171 - MARK FLIPPO					
Route:	CASTOLON, TEXAS (83-319)					
Run Method:	101-Standard BBS					
Route Summary Information						
Date Route Run:	05/29/2014					
Start Time:	06:24					
End Time:	10:34					
Start Temp:	74 °F					
End Temp:	89					
Start Wind:	0 - Smoke rises vertically [<1 mph, <2 Kph]					
End Wind:	1 - Wind direction shown by smoke drift [1-3 mph, 2-5 Kph]					
Start Sky:	0 - Clear or few clouds					
End Sky:	0 - Clear or few clouds					
Questions						
1. Did you submit these data to the BBS Office via the Internet?						Yes
2. Do you intend to survey this route next year? (2015)						Yes
Who will replace?						F0171
3. Did you complete the route?						Yes
How many stops were sampled?						50
4. If present, were vehicles recorded?						Yes
5. Did someone accompany AND assist with the route?						No
Please provide assistant's name.						
6. Did your assistant record the species data?						
7. Were you the assigned observer for the route? In other words, is your name printed on the data sheet?						Yes
8. Were you paid or otherwise compensated by your employer to survey this route?						Yes
9. Please indicate the number of hours you and any assistants' contribute to the completion of this route. Include time spent on scouting, data collection, data submission, and data review. Round to nearest hour.						Obs. - 9 Asst. - 0
Species	1	2	3	4	5	
White-winged Dove	1	1	2	3	1	Breeder
Mourning Dove	1	1	2	1	1	Breeder
Great Horned Owl			1			Breeder
Lesser Nighthawk	2	6	3	1	2	Breeder
Golden-fronted Woodpecker			1			Breeder
Ladder-backed Woodpecker					1	Breeder
Ash-throated Flycatcher			1			Breeder
Western Kingbird			1			Breeder
Bell's Vireo			1	3		Breeder
Black-tailed Gnatcatcher			1			Breeder
Yellow-breasted Chat	3	3	4	1		Breeder
Black-throated Sparrow	2	3	3	3	3	Breeder
Summer Tanager		2	1	1		Breeder
Northern Cardinal	1	2				Breeder
Painted Bunting		1	2	1		Breeder
Couch's Kingbird			1			Breeder
Number of Vehicles						
Excessive Noise						
Species	6	7	8	9	10	
Scaled Quail					1	Breeder
White-winged Dove				1		Breeder

Mourning Dove		1		1	2	Breeder
Greater Roadrunner		1				Breeder
Lesser Nighthawk	2	1				Breeder
Say's Phoebe		1				Breeder
Ash-throated Flycatcher	1	2		2	1	Breeder
Loggerhead Shrike					1	Breeder
Verdin				1		Breeder
Cactus Wren				1		Breeder
Rock Wren		2				Breeder
Black-throated Sparrow	2	2	1	1	2	Breeder
House Finch				2	4	Breeder
Number of Vehicles						
Excessive Noise	<input type="checkbox"/>					
Species	11	12	13	14	15	
Scaled Quail					1	Breeder
Mourning Dove		2			1	Breeder
Greater Roadrunner			1			Breeder
Ash-throated Flycatcher	1				2	Breeder
Cactus Wren			2	1	1	Breeder
Canyon Wren			1			Breeder
Black-tailed Gnatcatcher			1		1	Breeder
Canyon Towhee		1				Breeder
Black-throated Sparrow	2	3	2	4		Breeder
Pyrrhuloxia			1		1	Breeder
Blue Grosbeak	1					Breeder
Scott's Oriole					2	Breeder
Number of Vehicles	1					
Excessive Noise	<input type="checkbox"/>					
Species	16	17	18	19	20	
Mourning Dove	1		1			Breeder
Say's Phoebe			1			Breeder
Ash-throated Flycatcher	1		1			Breeder
Cactus Wren	2				2	Breeder
Canyon Wren					1	Breeder
Black-tailed Gnatcatcher		1				Breeder
Black-throated Sparrow	3	1	1	1	2	Breeder
Pyrrhuloxia				1	2	Breeder
House Finch		1	2			Breeder
Number of Vehicles				1		
Excessive Noise	<input type="checkbox"/>					
Species	21	22	23	24	25	
Scaled Quail	1					Breeder
Turkey Vulture				1		Breeder
Greater Roadrunner	1					Breeder
Ash-throated Flycatcher	1					Breeder
Cactus Wren		1				Breeder
Black-tailed Gnatcatcher			1			Breeder
Northern Mockingbird				1		Breeder
Rufous-crowned Sparrow		1				Breeder
Black-throated Sparrow	2	1	2	2	2	Breeder
Pyrrhuloxia	1	1	1		1	Breeder
Scott's Oriole	1		1			Breeder
House Finch		1				Breeder
Number of Vehicles	1					
Excessive Noise	<input type="checkbox"/>					

Species	26	27	28	29	30	
Scaled Quail	2					Breeder
Red-tailed Hawk		1				Breeder
Mourning Dove		1			1	Breeder
Greater Roadrunner		1				Breeder
Loggerhead Shrike				1		Breeder
Cactus Wren				3	3	Breeder
Bewick's Wren					2	Breeder
Northern Mockingbird	2	1	1		2	Breeder
Rufous-crowned Sparrow			1		1	Breeder
Black-throated Sparrow	2				3	Breeder
Pyrrhuloxia	1				1	Breeder
House Finch	1					Breeder
Number of Vehicles				1		
Excessive Noise	<input type="checkbox"/>					
Species	31	32	33	34	35	
Scaled Quail					1	Breeder
Turkey Vulture	1			1		Breeder
Mourning Dove		2				Breeder
Verdin	1				1	Breeder
Cactus Wren				1		Breeder
Bewick's Wren	2	2	2			Breeder
Northern Mockingbird	2					Breeder
Rufous-crowned Sparrow	2	3	1			Breeder
Black-throated Sparrow	2	3	4	1		Breeder
Pyrrhuloxia				2		Breeder
Varied Bunting				1		Breeder
Scott's Oriole			1		1	Breeder
Number of Vehicles						
Excessive Noise	<input type="checkbox"/>					
Species	36	37	38	39	40	
Scaled Quail	1					Breeder
Turkey Vulture		1			1	Breeder
Red-tailed Hawk					1	Breeder
Mourning Dove				1		Breeder
Ladder-backed Woodpecker					1	Breeder
Bell's Vireo	1	1	2			Breeder
Verdin	2				2	Breeder
Cactus Wren		3				Breeder
Rock Wren	1					Breeder
Bewick's Wren	1					Breeder
Black-tailed Gnatcatcher					1	Breeder
Northern Mockingbird		3		1	1	Breeder
Black-throated Sparrow			2			Breeder
Pyrrhuloxia		2				Breeder
Blue Grosbeak			1			Breeder
Varied Bunting		1				Breeder
Brown-headed Cowbird			2		2	Breeder
House Finch				1		Breeder
Number of Vehicles			1			
Excessive Noise	<input type="checkbox"/>					
Species	41	42	43	44	45	
Scaled Quail			1	1		Breeder
Turkey Vulture	2			1		Breeder
Greater Roadrunner			1	1		Breeder
Ash-throated Flycatcher	2		1			Breeder

Loggerhead Shrike				1		Breeder
Bell's Vireo			1			Breeder
Verdin		1			1	Breeder
Cactus Wren		1		1		Breeder
Canyon Wren	1					Breeder
Bewick's Wren		1				Breeder
Black-tailed Gnatcatcher		1	2			Breeder
Northern Mockingbird		3		1		Breeder
Black-throated Sparrow	2		1	1		Breeder
Pyrrhuloxia		1			1	Breeder
Varied Bunting		1				Breeder
Painted Bunting					2	Breeder
Brown-headed Cowbird		1	1			Breeder
Western Wood-Pewee	1					Breeder
Number of Vehicles						
Excessive Noise						
Species	46	47	48	49	50	
Turkey Vulture			1		1	Breeder
Red-tailed Hawk					1	Breeder
Bell's Vireo	1					Breeder
Verdin			1			Breeder
Cactus Wren			1			Breeder
Black-tailed Gnatcatcher				1		Breeder
Northern Mockingbird	2			1		Breeder
Yellow-breasted Chat	2					Breeder
Black-throated Sparrow		1	2	1	2	Breeder
Pyrrhuloxia	1	1				Breeder
Number of Vehicles		1		1	2	
Excessive Noise						
Comments						
<b>Breeding birds seen during the survey:</b>						
<p>COUCH'S KINGBIRD -- At stop # 3, just north of cottonwood canopy habitat in Cottonwood campground. Couch's kingbird is a rare breeding species in Big Bend, confined to the riparian corridor of the Rio Grande, mostly in the southwest corner of the park at Cottonwood campground but also on the southeast at Rio Grande Village, where similar cottonwood canopy exists. Couch's will nest in proximity to the more prevalent western kingbird and the rare tropical kingbird. As with most kingbirds, Couch's is very active and vocal, with a characteristic "breer" call that distinguishes it from the other two species.</p>						
<b>Non-breeding birds seen during the survey:</b>						
<b>Temporary route problems:</b>						
<b>Permanent route problems:</b>						
<b>Route vacancy:</b>						
<b>Miscellaneous notes from the field:</b>						

## Route Summary

MARK FLIPPO

## Route Summary

**Observer:** F0171 - MARK FLIPPO  
**Route:** CHISOS BASIN, TEXAS (83-900)  
**Run Method:** 101-Standard BBS

## Route Summary Information

**Date Route Run:** 05/30/2014  
**Start Time:** 06:24  
**End Time:** 10:36  
**Start Temp:** 68 °F  
**End Temp:** 92 °F  
**Start Wind:** 0-Smoke rises vertically [<1 mph, <2 Kph]  
**End Wind:** 1-Wind direction shown by smoke drift [1-3 mph, 2-5 Kph]  
**Start Sky:** 0-Clear or few clouds  
**End Sky:** 1-Partly cloudy (scattered) or variable sky

## 10 Stop Totals

Species	1-10	11-20	21-30	31-40	41-50	Total ind.	Total Stops
Scaled Quail	2	12	2	0	1	17	8
Turkey Vulture	2	5	4	3	1	15	11
White-winged Dove	9	0	0	0	0	9	3
Mourning Dove	0	0	0	0	1	1	1
Greater Roadrunner	1	2	0	1	0	4	4
White-throated Swift	2	1	0	0	0	3	2
Ladder-backed Woodpecker	2	1	0	0	0	3	3
Western Wood-Pewee	0	0	0	1	0	1	1
Say's Phoebe	1	0	1	1	0	3	3
Ash-throated Flycatcher	1	2	2	2	0	7	7
Western Kingbird	0	0	0	1	0	1	1
Loggerhead Shrike	0	0	1	0	0	1	1
Bell's Vireo	0	1	0	2	2	5	3
Black-capped Vireo	4	0	0	0	0	4	3
Mexican Jay	7	0	0	0	0	7	3
Common Raven	0	1	0	1	1	3	3
Black-crested Titmouse	5	0	0	0	0	5	3
Verdin	0	3	1	2	7	13	12
Cactus Wren	5	7	1	1	8	22	15
Rock Wren	0	0	1	0	0	1	1
Canyon Wren	3	0	0	0	0	3	3
Bewick's Wren	3	1	0	0	0	4	3
Blue-gray Gnatcatcher	6	0	0	0	0	6	4
Black-tailed Gnatcatcher	0	2	1	1	3	7	6
Northern Mockingbird	11	4	0	0	4	19	13
Crissal Thrasher	0	1	0	0	0	1	1
Yellow-breasted Chat	1	0	0	0	0	1	1
Spotted Towhee	3	0	0	0	0	3	2
Rufous-crowned Sparrow	25	1	0	0	0	26	10
Canyon Towhee	5	3	0	0	0	8	5
Black-chinned Sparrow	3	0	0	0	0	3	1
Black-throated Sparrow	0	16	15	9	4	44	23
Hepatic Tanager	2	0	0	0	0	2	2
Pyrrhuloxia	0	6	3	2	3	14	13
Black-headed Grosbeak	5	0	0	0	0	5	4
Blue Grosbeak	10	1	0	0	0	11	6
Varied Bunting	0	5	0	0	0	5	3

Brown-headed Cowbird	0	1	1	0	4	6	4
Scott's Oriole	5	5	1	1	2	14	11
House Finch	0	3	2	5	6	16	8
Swainson's Hawk	0	0	0	0	1	1	1
Blue-throated Hummingbird	1	0	0	0	0	1	1
<b>Total Species : 42</b>							
	<b>Total ind. : 325</b>						
Vehicles	1	9	5	8	7	30	20
Noise	0	0	0	0	0	0	0