



DEPARTMENT OF PARKS AND RECREATION
Anza-Borrego Desert State Park
200 Palm Canyon Drive
Borrego Springs, CA 92004
760 767-5311 Fax 760 767-7492

Lisa Ann L. Mangat, Director

45 Years of Volunteer Sheep Counters:

July 5, 2015

The 45th Annual Sheep Count is in the books and was a big success. Lots of bighorn observed and all counters returned safely. This year we tallied 253 bighorn. Your tremendous efforts under extreme conditions are greatly appreciated. The weather was hot and humid throughout the count. We are very thankful to the Disney Conservation Fund and Anza-Borrego Foundation for their sponsorship of this year's census and for providing the high quality Citizen Science T-shirts celebrating our 45th year. Special Thank You to Kelley Jorgensen for the design and to Pam Stanley at CALICO's restaurant for the "Year of the Sheep" cookies.

We hope to see you return next year (July 1-3, 2016) for another successful sheep count. Talk it up with your outdoor friends, as we can always use more backpackers and more count volunteers to fill other sites.

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists various count sites and their respective counts, ending with a TOTAL row showing 113 ewes, 36 lambs, 14 yearlings, 70 rams, 3 no I.D., and a total of 253 sheep.

RATIOS: RAM : EWE 70:100 LAMB : EWE 32:100 YEARLING : EWE 19:100

COUNT CONDUCTED ON JULY 3th, 4th, and 5th, 2015. High temperatures for each day: 113°, 110°, 106° F.

THANKS to all of you!
Ranger Steve Bier, Sheep Count Coordinator
Mark C. Jorgensen, Assistant Coordinator
Anza-Borrego Desert State Park



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Lisa Mangat, Acting Director

I SEE EWE Volunteer Sheep Counters:

July 6, 2014

The 44th Annual Sheep Count is in the books and was a big success. Lots of bighorn observed and all counters returned safely. This year we tallied 265 bighorn, Your tremendous efforts under extreme conditions are greatly appreciated. The weather was hot and humid throughout the count, with a nice break in the cloud cover for day 3. We are very thankful to the Anza-Borrego Foundation for their sponsorship of this annual census and for providing the high quality "I SEE EWE" Sheep Count Hats for our 44th census. Special Thank You to Kelley Jorgensen for the design; To CALICO's restaurant for the "I C EWE" cookies; To Fred and L' Louise Jee for the donation of water, Gatorade, and support; and to Anon E. Mouse for the donated snacks and ice cold watermelon.

We hope to see you return next year (July 2-5, 2015) for another successful sheep count.

Talk it up with your outdoor friends, as we can use more backpackers and more count volunteers to fill other sites.

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO.I.D., TOTAL. Lists various count sites and their respective sheep counts, ending with a TOTAL row showing 119 ewes, 40 lambs, 13 yearlings (M), 15 yearlings (F), 77 rams, 1 no.i.d., and a total of 265 sheep.

RATIOS: RAM : EWE 65:100 LAMB : EWE 34:100 YEARLING : EWE 24:100

COUNT CONDUCTED ON JULY 4th, 5th, and 6th, 2014. High temperatures for each day: 103, 108, 110° F.

THANKS to all of you!
Steve Bier, State Park Ranger, Coordinator
Mark C. Jorgensen, Assistant Coordinator
Anza-Borrego Desert State Park



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Major General Anthony L. Jackson, USMC (Ret), Director

Extreme Volunteer Sheep Counters:

July 7, 2013

The 43rd Annual Sheep Count is in the books and was a big success. Lots of bighorn observed and all counters returned safely. This year we tallied 332 bighorn, which replaces the 2011 count as the second largest tally in sheep count history at Anza-Borrego. Your tremendous efforts under extreme conditions are greatly appreciated. The weather was hot and humid on days 1 and 2, with a nice break in the humidity for day 3. We are very thankful to the Anza-Borrego Foundation for their sponsorship of this annual census and for providing the high quality "7,832 and Counting" Sheep Count Thermos for our 43rd census. Special Thank You to Kelley and Carly Jorgensen for the design and catchy phrase. We hope to see you return next year (July 3-6, 2014) for another successful sheep count. Talk it up with your outdoor friends, as we can use more backpackers and more count volunteers to fill other sites.

Table with 8 columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists various count sites and their respective sheep counts, ending with a TOTAL row showing 162 ewes, 42 lambs, 15 yearlings, 10 females, 95 rams, 8 no I.D., and a total of 332 sheep.

RATIOS: RAM : EWE 59:100 LAMB : EWE 26:100 YEARLING : EWE 15:100

COUNT CONDUCTED ON JULY 5th, 6th, and 7th, 2013. High temperatures for each day: 106, 107, 112 ° F.

THANKS to all of you!
Steve Bier, State Park Ranger, Coordinator
Mark C. Jorgensen, Assistant Coordinator
Anza-Borrego Desert State Park



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Ruth G. Coleman, Director

Extreme Volunteer Sheep Counters:

July 8, 2012

The 42nd Annual Sheep Count is in the books and was a big success. Lots of bighorn observed and all counters returned safely. This year we tallied 273 bighorn, down from last year's count of 329. A lack of water in part of the range probably contributed to the lower numbers. Your tremendous efforts under extreme conditions are greatly appreciated. We are very thankful to the Anza-Borrego Foundation for their sponsorship of this annual census and for providing the high quality "It's a Dry Heat" Sheep Count Coolers for our 42nd census. Special Thanks to Evan Jorgensen for supplying the Art Work, and to Fred Jee for supplying the drinks and snacks for the count.

We hope to see you return next year (July 4- 7, 2013) for another successful sheep count. Talk it up with your outdoor friends, as we can use more backpackers and more count volunteers to fill other sites.

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, E), RAM, NO I.D., TOTAL. Lists various count sites and their respective sheep counts, totaling 273 sheep.

RATIOS: RAM : EWE 54:100 LAMB : EWE 36:100 YEARLING : EWE 23:100

COUNT CONDUCTED ON JULY 6th, 7th, and 8th, 2012. High temperatures for each day: 105, 107, 111 ° F.

THANKS to all of you!
Steve Bier, State Park Ranger, Coordinator
Mark C. Jorgensen, Assistant Coordinator
Anza-Borrego Desert State Park



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Ruth G. Coleman, Director

Extreme Volunteer Sheep Counters:

July 3, 2011

The 41st Annual Sheep Count is in the books and was a big success. Lots of bighorn observed and all counters returned safely. This year we tallied 329 bighorn. This is the second largest tally in sheep count history at Anza-Borrego. Last year we counted 255. In 2009 we set the record with 356. Your tremendous efforts under extreme conditions are greatly appreciated. The weather was very hot on Days 1 and 2, then on Day 3 the temperature went down to 103F but the humidity was thick and hazy. We are very thankful to the Anza-Borrego Foundation for their sponsorship of this annual census and for providing the high quality "Extreme Volunteer" Sheep Count hats for our 41st census.

We hope to see you return next year for another successful sheep count. Talk it up with your outdoor friends, as we can use more backpackers and more count volunteers to fill other sites.

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists counts for various sites like 1st Grove Palm Canyon, Middle Spring-Tubb Cyn., etc., with a TOTAL row at the bottom.

RATIOS: RAM : EWE 52:100 LAMB : EWE 34:100 YEARLING : EWE 13:100

COUNT CONDUCTED ON JULY 1st, 2nd, and 3rd, 2011. High temperatures for each day: 111, 116, 103 ° F.

THANKS to all of you!

Steve Bier, State Park Ranger, Coordinator
Mark C. Jorgensen, Assistant Coordinator
Anza-Borrego Desert State Park



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Ruth G. Coleman, Director

**Veteran Sheep Counters:****July 4, 2010**

The 40<sup>th</sup> Anniversary Sheep Count is in the books. Lots of bighorn observed and all counters returned safely. This year we tallied **255** bighorn. Last year we counted 354. You all did a superb job and your efforts in the summer heat are greatly appreciated. The weather was hot on Day One and moderate the other two days. One site in Lower Tubb Canyon spotted a mountain lion through the spotting scope, which is a rare observation for the sheep count!

We are thankful to the **Anza-Borrego Foundation** for their sponsorship of this annual census and for providing the beautiful stainless steel travel mugs for our 40<sup>th</sup> anniversary census. We'd also like to extend our heartfelt thanks to **Adventure 16** for providing water bottles and sunscreen to each counter. **We hope to see you return next year for another successful sheep count.**

<u>COUNT SITE</u>	<u>EWE</u>	<u>LAMB</u>	<u>YEARLING</u>		<u>RAM</u>	<u>NO I.D.</u>	<u>TOTAL</u>
			<u>M</u>	<u>F</u>			
1st Grove Palm Canyon	2	1	0	0	3	0	6
2 <sup>nd</sup> Grove Palm Canyon	2	0	0	1	1	0	4
3rd Grove Palm Canyon	18	2	4	4	6	0	34
4th Grove Palm Canyon	1	0	0	0	7	0	8
Tubb Canyon Guzzler	4	0	0	0	12	0	16
Middle Spring-Tubb Cyn.	5	2	0	0	12	0	19
Big Spring-Tubb Cyn.	0	0	0	0	0	0	0
Lower Water Outfall—Tubb	0	0	0	0	2	1	3
Upper Hellhole	10	2	1	0	3	0	16
Lower Hellhole	0	0	0	0	0	0	0
Box Cyn.-Lower Willows	20	4	1	1	15	0	41
Lower Willows, 2 <sup>nd</sup> Crossing	3	0	0	0	9	0	12
Monkey Hill	0	0	0	0	0	0	0
Middle Willows	13	7	2	2	5	1	30
Upper Middle Willows	7	2	0	0	2	0	11
N. Fk. Palm Wash Tenajas	1	0	0	1	2	0	4
Yaqui Well-Pinyon Ridge	0	0	0	0	0	0	0
Rattlesnake Spring	22	15	2	2	9	0	50
Montezuma Grade	1	0	0	0	0	0	1
<b>TOTAL</b>	<b>109</b>	<b>35</b>	<b>10</b>	<b>11</b>	<b>88</b>	<b>2</b>	<b>255</b>

RATIOS: RAM : EWE 81:100 LAMB : EWE 32 :100 YEARLING : EWE 19 :100

COUNT CONDUCTED ON JULY 2<sup>nd</sup>, 3rd, 4 th, 2010.  
 High temperatures for each day: 110, 103, 102 ° F.

**THANKS to all of you!**

**Steve Bier, State Park Ranger, Coordinator**  
**Mark C. Jorgensen, Assistant Coordinator**  
**Anza-Borrego Desert State Park**



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Ruth G. Coleman, Director

Sheep Counters:

July 5, 2009

The 39th Annual Sheep Count was a record-breaking success. Lots of bighorn and all counters returned safely. This year we tallied 354 bighorn, busting the old record of 299. Last year we counted 261. You all do so much and travel so far---You're GREAT and we sincerely thank you!!

The weather was hot and perfect for sheep counting, with clear and broiling the norm for all sites.

A huge Thank You to Ranger Steve Bier for helping purchase all the cold sodas and bottled water!!!

We are also thankful to the Anza-Borrego Foundation for sponsorship of this important annual census.

We hope to see you return next year for another successful sheep count. Bring a friend!!

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists various count sites and their respective sheep counts, totaling 354.

RATIOS: RAM : EWE 38:100 LAMB : EWE 30:100 YEARLING : EWE 20:100

COUNT CONDUCTED ON JULY 3rd, 4 th, 5th, 2009.
High temperatures for each day: 107, 108, 108 ° F.

THANKS to all of you!

Mark C. Jorgensen, Volunteer Coordinator
Steve Bier, State Park Ranger
Anza-Borrego Desert State Park



NOTE: Print at 600 dpi or higher. If printing at less than 600 dpi, use of preprinted letterhead from Warehouse is recommended.

State of California • The Resources Agency

Arnold Schwarzenegger, Governor

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760 767-5311 Fax 760 767-7492

Ruth G. Coleman, Director

*data entered  
7/9/2008*

**Sheep Counters:**

**July 6, 2008**

The 38<sup>th</sup> Annual Sheep Count was a great success. Lots of bighorn and all counters returned safely. You all do so much and travel so far---You're all GREAT and we sincerely thank you!! The weather was hot and perfect for sheep counting, but unfortunately for us the humidity arrived early. Thanks to all of you for your dedication to the bighorn and to Anza-Borrego Desert State Park. A huge **Thank You to Nancy Estes** for donating all the cold sodas and bottled water!!! We are also thankful to the **Anza-Borrego Foundation and Institute** for sponsorship of this important annual census, and for the beautiful Anza-Borrego book by Ernie Cowan, provided to each sheep count volunteer. **We hope to see you return next year for another successful sheep count.**

<u>COUNT SITE</u>	<u>EWE</u>	<u>LAMB</u>	<u>YEARLING</u>		<u>RAM</u>	<u>NO I.D.</u>	<u>TOTAL</u>
			<u>M</u>	<u>F</u>			
Lower Trailhead Site	0	0	0	0	0	0	0
1st Grove Palm Canyon	0	0	0	0	0	0	0
2 <sup>nd</sup> Grove Palm Canyon	3	1	0	0	0	0	4
3rd Grove Palm Canyon		(not counted)					
4th Grove Palm Canyon	13	1	0	1	15	0	30
Tubb Canyon Guzzler	4	0	0	0	4	0	8
Middle Spring-Tubb Cyn.	10	5	0	1	7	0	23
Big Spring-Tubb Cyn.	0	0	0	0	2	0	2
Upper Hellhole	0	0	0	0	0	0	0
Lower Hellhole	5	2	0	0	1	0	8
Box Cyn.-Lower Willows	17	2	0	3	9	0	31
Lower Willows-Upper Site	0	0	0	0	0	0	0
Cougar Canyon		(not counted)					
Sheep Canyon N. Fork		(not counted)					
Salvador Canyon		(not counted)					
Monkey Hill	7	1	0	1	1	0	10
Middle Willows	26	11	2	3	7	5	54
Upper Middle Willows	3	5	0	3	2	0	13
Upper Willows	0	0	0	0	0	0	0
Rattlesnake Spring	35	22	13	2	4	2	78
<b>TOTAL</b>	<b>123</b>	<b>50</b>	<b>15</b>	<b>14</b>	<b>52</b>	<b>7</b>	<b>261</b>

RATIOS: RAM : EWE 42:100 LAMB : EWE 41:100 YEARLING : EWE 24:100

COUNT CONDUCTED ON JULY 4th, 5th, 6TH, 2008.  
High temperatures for each day: 103, 107, 111 ° F.

**THANKS to all of you!**

**Esther S. Rubin, Conservation Biology Institute**  
**Mark C. Jorgensen, Anza-Borrego Desert State Park**





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Ruth G. Coleman, Director

**Sheep Counters:**

**July 1, 2007**

**The 37<sup>th</sup> Annual Sheep Count was another successful adventure.**

The weather was hot and perfect for sheep counting!!

Thanks to all of you for your dedication to the bighorn and to Anza-Borrego Desert State Park.

A huge **Thank You to Sharon Ritchey and Wayne Lombardo** for donating all the juices and snacks!!!

We are also thankful to the **Anza-Borrego Foundation and Institute** for sponsorship of this important annual census, and for the nice Tennessee walking sticks ABF provided for each sheep count volunteer.

You all do so much and travel so far---You're all GREAT and we at Anza-Borrego thank you!!

**Hope we see you return next year for another successful sheep count.**

<u>COUNT SITE</u>	<u>EWE</u>	<u>LAMB</u>	<u>YEARLING</u>		<u>RAM</u>	<u>NO I.D.</u>	<u>TOTAL</u>
			<u>M</u>	<u>F</u>			
1st Grove Palm Canyon	6	1	0	0	3	0	10
2 <sup>nd</sup> Grove Palm Canyon	3	0	0	0	0	0	3
3rd Grove Palm Canyon	20	1	0	1	6	0	28
4th Grove Palm Canyon	1	0	0	0	6	0	7
Tubb Cyn. Lower Outfall		(not counted)					
Tubb Canyon Guzzler	12	0	1	0	8	0	21
Middle Spring-Tubb Cyn.	15	2	1	1	5	0	24
Big Spring-Tubb Cyn.	1	0	0	0	1	0	2
Upper Hellhole	0	1	0	0	1	0	2
Lower Hellhole	3	1	0	0	3	0	7
2 <sup>nd</sup> Crossing, Coyote Creek	4	0	0	1	8	0	13
Box Cyn.-Lower Willows	11	6	1	3	4	0	25
Lower Willows-Upper Site	0	0	0	0	0	0	0
Cougar Canyon		(not counted)					
Sheep Canyon N. Fork		(not counted)					
Salvador Canyon	0	0 (fresh sign)	0	0	0	0	0
Monkey Hill	7	1	0	1	1	0	10
Middle Willows	6	0	0	1	3	0	10
Upper Middle Willows	7	2	5	4	3	0	21
Upper Willows	0	0	0	0	0	0	0
Rattlesnake Spring	33	26	9	2	6		76
N. Fork Palm Wash Tenaja		(fresh sign)					0
<b>TOTAL</b>	<b>129</b>	<b>41</b>	<b>17</b>	<b>14</b>	<b>58</b>		<b>259</b>

(31)

**RATIOS: RAM : EWE 45 :100 LAMB : EWE 32 :100 YEARLING : EWE 24 :100**

COUNT CONDUCTED ON JUNE 29th, 30th, & JULY 1st, 2007.

High temperatures for each day: 110, 113, 112 ° F.

**THANKS to all of you!**

**Esther S. Rubin, Conservation Biology Institute**

**Mark C. Jorgensen, Anza-Borrego Desert State Park**



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Ruth G. Coleman, Director

Sheep Counters:

July 4, 2006

The 36<sup>th</sup> Annual Sheep Count was a big success. Weather was hot and humid, with a rain just as counters arrived back to base on Day 3! The count was the second highest ever at 254, with a new record of 64 observed at Rattlesnake Spring (the old record was 63 at Rattlesnake in 2004)

Thanks to all of you for your dedication to the bighorn and to Anza-Borrego Desert State Park.

A huge Thank You to Sharon Ritchey and Wayne Lombardo for donating all the T-Shirts---they're beautiful!!! We are also thankful to the Anza-Borrego Foundation and Institute for sponsorship of this important annual census.

So many do so much and travel so far---You're all GREAT!!

Hope we see you return next year for another successful sheep count.

COUNT SITE	EWE	LAMB	YEARLING		RAM	NO I.D.	TOTAL
			M	F			
1st Grove Palm Canyon	15	2	0	0	6	0	23
2 <sup>nd</sup> Grove Palm Canyon	15	2	0	2	4	0	23
3rd Grove Palm Canyon	3	1	0	1	4	0	9
4th Grove Palm Canyon	0	0	0	0	12	0	12
Tubb Cyn. Lower Outfall	(not counted)						
Tubb Canyon Guzzler	13	6	0	1	10	0	30
Middle Spring-Tubb Cyn.	4	2	1	0	1	0	8
Big Spring-Tubb Cyn.	0	0	0	0	1	0	1
Upper Hellhole	7	2	0	0	5	0	14
Lower Hellhole	5	3	1	0	5	0	14
Box Cyn.-Lower Willows	5	0	0	2	4	0	11
Lower Willows-Upper Site	1	0	0	0	1	0	2
Cougar Canyon	(not counted)						
Sheep Canyon N. Fork	(not counted)						
Salvador Canyon	(not counted)						
Monkey Hill	10	0	0	1	0	0	11
Middle Willows	17	4	0	1	4	0	26
Upper Middle Willows	0	0	0	0	0	0	0
Upper Willows	0	0	0	0	0	0	0
Rattlesnake Spring	31	16	8	1	8	0	64
N. Fork Palm Wash Tenaja	4	0	0	1	0	0	5
Montezuma Grade	0	0	0	0	1	0	1
<b>TOTAL</b>	<b>130</b>	<b>38</b>	<b>10</b>	<b>10</b>	<b>66</b>	<b>0</b>	<b>254</b>

RATIOS: RAM : EWE 53 :100 LAMB : EWE 29 :100 YEARLING : EWE 15 :100

COUNT CONDUCTED ON JULY 2nd, 3rd, & 4th, 2006. High temperature for each day was 107, 104, 108 ° F.

THANKS to all of you!

Esther S. Rubin, Conservation Biology Institute  
Mark C. Jorgensen, Anza-Borrego Desert State Park



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Ruth G. Coleman, Director

Sheep Counters:

July 5, 2005

You did it! The 35th Annual Sheep Count is in the books and was a big success. For only the third time in 35 years, the tally exceeded 200 bighorn. The lamb:ewe ratio is very low, after several years of good survival rates. We came up with excellent total numbers in Palm Canyon, Middle Willows, Lower Willows and Rattlesnake Spring this year. Several sites noted coughing animals, which is a concern. Thanks again to all of you for your dedication to the bighorn and to Anza-Borrego Desert State Park. A huge Thank You to the Anza-Borrego Foundation for sponsorship of this important annual census!

Hope we see you return next year for another successful sheep count.

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists various count sites like 1st Grove Palm Canyon, Tubb Cyn., etc., with their respective counts.

RATIOS: RAM:EWE 82:100 LAMB:EWE 19:100 YEARLING:EWE 16:100

COUNT CONDUCTED ON JULY 2nd, 3rd, & 4th, 2005. High temperature for each day was 110, 109, 109° F.

THANKS to all of you!

Esther S. Rubin, Zoological Society of San Diego

Mark C. Jorgensen, Anza-Borrego Desert State Park



Anza-Borrego Desert State Park®
200 Palm Canyon Drive
Borrego Springs, CA 92004

July 5, 2004

Sheep Counters:

Thanks to each of you for making the 34th Annual Bighorn Sheep Count a very successful event! We thank every one of you dedicated volunteers. We were met with relatively cool weather each day, allowing the bighorn to remain higher on the ridges, not being forced to the canyon water sources. The count was fifteen lower than last year, but in some areas we continue to witness the bighorn making a comeback. All of you can be proud of the role you've had in this long-term conservation effort. One point revealed on this census is that several sites noted coughing lambs. We will take a close look at this during the Fall helicopter survey.

Hope we see you return next year for another successful sheep count.

Thanks to all of you for your valuable time, talents, and dedication to the bighorn and the park.

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists various sites like 1st Grove Palm Canyon, 2nd Grove Palm Canyon, etc., with corresponding counts.

RATIOS: RAM:EWE 33:100 LAMB:EWE 42:100 YEARLING:EWE 12:100

COUNT CONDUCTED ON JULY ,3rd, 4th, & 5th, 2004. High temperature for each day was 102, 103, 104° F.

THANKS to all of you!

Esther S. Rubin, Count Coordinator, Zoological Society of San Diego

Mark C. Jorgensen, Superintendent, Anza-Borrego Desert State Park

Anza-Borrego Desert State Park®  
 200 Palm Canyon Drive  
 Borrego Springs, CA 92004

July 7, 2003

JA

**Sheep Counters:**

Thank you for making the 33rd Annual Bighorn Sheep Count another safe and successful event! We can't believe how smoothly the count went, and it was thanks to each and every one of you dedicated volunteers. It's incredible how all you folks keep coming back for this event and what a great job each of you do. We're witnessing the bighorn making a comeback and all of you can be proud of the role you've had in this conservation effort. The number of sheep observed this year was high and the lamb:ewe ratio is excellent. Hope we see you return next year for another successful sheep count. Thanks to all of you from Esther, Mark, and of course, the bighorn !

<u>COUNT SITE</u>	<u>EWE</u>	<u>LAMB</u>	<u>YEARLING</u>		<u>RAM</u>	<u>NO I.D.</u>	<u>TOTAL</u>
			<u>M</u>	<u>F</u>			
1st Grove Palm Canyon ✓	0	0	0	0	0	0	0
2 <sup>nd</sup> Grove Palm Canyon ✓	2	2	2	0	0	1	7
3rd Grove Palm Canyon ✓	1	3	2	1	3	0	10
4th Grove Palm Canyon ✓	11	4	0	1	13	0	29
Tubb Cyn. Lower Outfall ✓	1	0	0	0	2	0	3
Tubb Canyon Guzzler ✓	5	1	1	1	3	0	11
Middle Spring-Tubb Cyn. ✓	3	0	0	0	2	0	5
Big Spring-Tubb Cyn. ✓	0	0	0	0	0	0	0
Upper Hellhole ✓	10	5	2	1	7	0	25
Lower Hellhole ✓	0	0	0	0	0	0	0
Box Cyn.-Lower Willows ✓	15	9	1	2	3	0	30
Lower Willows-Upper Site ✓	1	1	0	1	1	0	4
Cougar Canyon (not counted) ✓							
Sheep Canyon N. Fork ✓	0	0	0	0	0	0	0
Salvador Canyon (not counted) ✓							
Monkey Hill ✓	2	1	0	0	0	0	3
Middle Willows ✓	4	2	0	1	3	0	10
Upper Middle Willows ✓	2	0	1	1	1	0	5
Upper Willows ✓	0	0	0	0	0	0	0
Rattlesnake Spring ✓	19	10	3	5	6	0	43
Yaqui Pass/Pinyon Ridge ✓	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>76</b>	<b>38</b>	<b>12</b>	<b>14</b>	<b>44</b>	<b>1</b>	<b>185</b>

RATIOS: RAM:EWE 58:100 LAMB:EWE 50:100 YEARLING:EWE 34:100

COUNT CONDUCTED ON JULY 4th, 5th, 6th, 2003. High temperature for each day was 113, 114, 111° F.

**THANKS to all of you!**

**Esther S. Rubin, Count Coordinator, Zoological Society of San Diego**  
**Mark C. Jorgensen, Superintendent, Anza-Borrego Desert State Park**



Anza-Borrego Desert State Park®
200 Palm Canyon Drive
Borrego Springs, CA 92004

July 8, 2002

Handwritten signature

Sheep Counters:

Thank you for making the 32nd Annual Bighorn Sheep Count a safe and successful event! The number of sheep observed this year was quite high and the lamb:ewe ratio is good. However, a number of water sources were dry so that is a concern, especially if we don't get rain soon. I really appreciate all the work that each of you did and for being flexible and patient as I tried to fill Mark Jorgensen's shoes as coordinator. Hope to see you next year and I know we'll all be looking forward to having Mark back!

Table with columns: COUNT SITE, EWE, LAMB, YEARLING (M, F), RAM, NO I.D., TOTAL. Lists 20 count sites with their respective sheep counts and a total of 196 sheep.

RATIOS: RAM:EWE 38:100 LAMB:EWE 46:100 YEARLING:EWE 25:100

COUNT CONDUCTED ON JULY 5th, 6th, 7th, 2002. High temperature for each day was 105, 105, 108° F.

\* These 3 sheep were observed by the Cougar Canyon team, at the mouth of Sheep Canyon, as the team was leaving on Sunday. The Sheep Canyon team had noted tracks, pellets, and an opened barrel cactus near the mouth of the canyon.

THANKS to all of you!

Esther S. Rubin, 2002 Count Coordinator, Zoological Society of San Diego



Anza-Borrego Desert State Park®  
200 Palm Canyon Drive  
Borrego Springs, CA 92004

July 8, 2001

Sheep Counters:

Thanks for making the 31st Annual Sheep Count a big success in spite of an inch of rain and some flooding! With the cloudy conditions, thunder storms, and cooler temperatures, the weather was not ideal for counting sheep. The count is comparable with last year's, considering the lack of a full count at Rattlesnake Spring. This year's lamb count is excellent. Thanks to all of you for going the extra mile in behalf of the desert bighorn!! Hope to see you next year!

COUNT SITE	EWE	LAMB	YEARLING		RAM	NO I.D.	TOTAL
			M	F			
1st Grove Palm Canyon ✓	0	0	0	0	7		7
2 <sup>nd</sup> Grove Palm Canyon ✓	<i>not counted</i>						
3rd Grove Palm Canyon ✓	1	1	0	0	1		3
4th Grove Palm Canyon ✓	0	0	0	0	0		0
Tubb Cyn. Lower Outfall ✓	5	1	0	0	5		11
Tubb Canyon Guzzler ✓	7	1	1	0	8		17
Middle Spring-Tubb Cyn. ✓	4	0	0	0	1		5
Big Spring-Tubb Cyn. ✓	0	0	0	0	0		0
Upper Hellhole ✓	0	0	0	0	0		0
Lower Hellhole ✓	2	1	0	0	1		4
Box Cyn.-Lower Willows ✓	7	5	1	0	1		14
Lower Willows-Upper Site ✓	1	1	1	1	1		5
Cougar Canyon ✓	0	0	0	0	0		0
Salvador Canyon ✓	0	0	0	0	0		0
Monkey Hill ✓	0	0	0	0	0		0
Middle Willows ✓	6	6	0	3	5	2	22
Upper Middle Willows ✓	0	0	0	0	0		0*
Upper Willows ✓	0	0	0	0	0		0
Rattlesnake Spring ✓	2	1	0	0	0		3**
Yaqui Pass/Pinyon Ridge ✓	6	2	1	1	0		10
Montezuma Grade North ✓	6	5	1	3	0		15***
<b>TOTAL</b>	<b>47</b>	<b>24</b>	<b>5</b>	<b>8</b>	<b>30</b>	<b>2</b>	<b>116</b>

RATIOS: RAM:EWE 64:100 LAMB:EWE 51:100 YEARLING:EWE 28:100

COUNT CONDUCTED ON JULY 6th, 7th, 8<sup>th</sup>, 2001 Temperatures were 97,101, & 105 F .85" rain 7/6

- \* Sheep were observed at site, but these animals were seen earlier at adjacent count site.
- \*\* Spring was dry, counted only on 7/6. Team forced to hike out due to lack of water.
- \*\*\* This group of sheep would normally be expected to water in Hellhole Canyon.

**THANKS to all of you!**

**Mark C. Jorgensen, Resource Ecologist**



Anza-Borrego Desert State Park®  
200 Palm Canyon Drive  
Borrego Springs, CA 92004

July 3, 2000

Sheep Counters:

Thanks for your dedication and hard work to make the 30th Annual Bighorn Sheep Count another big success! The weather was cool for sheep counting. Thanks to each of you for your dedication to the Peninsular bighorn. The Federal Recovery Team has called for the annual summer counts to continue as an important source of data on the bighorn's status. This year's count is the highest since 1989. Thanks to all volunteers!! Hope to see you next year!

COUNT SITE	EWE	LAMB	YEARLING		RAM	TOTAL
			M	F		
Palm Canyon Trailhead ✓	0	0	0	0	0	0
1st Grove Palm Canyon ✓	2	2	0	0	3	7
2nd Grove Palm Canyon ✓	0	0	0	0	2	2
3rd Grove Palm Canyon ✓	1	1	0	0	3	5
4th Grove Palm Canyon ✓	5	3	1	0	3	12
♻️ Tubb Cyn. Lower Outfall ✓ <i>sheep + no pt</i>	0	0	0	0	1	1
Tubb Canyon Guzzler ✓	2	0	1	0	4	7
Middle Spring-Tubb Cyn. ✓	0	0	5	1	8	14
Big Spring-Tubb Cyn. ✓	0	0	0	0	0	0
♻️ Upper Hellhole ✓ <i>sheep + no pt</i>	5	2	1	0	1	9
Lower Hellhole ✓ <i>sheep + no pt</i>	6	4	1	0	0	11
♻️ CA. Riding & Hiking Trail	0	0	0	0	0	0*
Box Cyn.-Lower Willows	3	2	0	0	1	6
Lower Willows-Upper Site ✓	7	3	0	1	2	13
Salvador Canyon ✓	0	0	0	0	0	0
Monkey Hill ✓	5	0	0	0	4	9
Middle Willows ✓	3	2	0	1	7	13
Upper Middle Willows ✓ <i>sheep + no pt</i>	4	0	0	2	0	6
Upper Willows ✓	0	0	0	0	0	0
Rattlesnake Spring ✓	21	5	1	2	5	34
♻️ Montezuma Grade ✓	0	0	0	0	1	1
TOTAL <i>Don't count</i>	64	24	10	7	45	150

RATIOS: RAM:EWE 70:100 LAMB:EWE 38:100 YEARLING:EWE 27:100

COUNT CONDUCTED ON JULY 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> 2000 Temperatures were 106, 104, & 98F

\* Sheep were observed at site, but these animals were seen earlier at adjacent count site.

THANKS to all of you!

*Mark C. Jorgensen*  
Mark C. Jorgensen, Resource Ecologist



## DEPARTMENT OF PARKS AND RECREATION



Anza-Borrego Desert State Park®  
200 Palm Canyon Drive  
Borrego Springs, CA 92004

July 8, 1999

Sheep Counters:

Thanks for your dedication and hard work over the long holiday weekend to make the 29th Annual Bighorn Sheep Count a big success! You all did a wonderful job. The Box Canyon crew saved a heat stroke victim's life—she regained consciousness on Wednesday! Great Job! The weather was excellent for sheep counting. We got the count done just in time, it's raining here today. Thanks to each of you for your continued hard work and dedication to the Peninsular bighorn. The counts are going well because of your help. Thanks so much. Hope to see you next year.

COUNT SITE	EWE	LAMB	YEARLING		RAM	TOTAL
			M	F		
Lower BPC Trail	0	0	0	0	4	4
1st Grove Palm Canyon	0	0	0	0	0	0*
2 <sup>nd</sup> Grove Palm Canyon	1	1	1	0	0	3*
3rd Grove Palm Canyon	2	2	0	0	0	4*
4th Grove Palm Canyon	4	3	2	1	2	12
Tubb Cyn. Lower Outfall	0	0	0	0	0	0
Tubb Canyon Guzzler	12	3	3	2	4	24*
Middle Spring-Tubb Cyn.	1	3	0	0	3	7*
Big Spring-Tubb Cyn.	0	0	0	0	0	0
Upper Hellhole	0	0	0	0	0	0*
Lower Hellhole	1	0	0	0	1	2
Flat Cat Canyon, BM "Ted"	8	3	0	3	2	16
Box Cyn.-Lower Willows	8	1	0	1	1	11*
Lower Willows-Upper Site	5	1	2	3	2	13*
N. Fk. Sheep Canyon	0	0	0	0	0	0
Salvador Canyon	0	0	0	0	5	5
Monkey Hill	8	2	0	0	3	13
Middle Willows	0	0	0	0	0	0
Upper Middle Willows	2	2	2	4	0	10
Upper Willows	0	0	0	0	0	0
Montezuma Grade	0	0	0	0	1	1
Rattlesnake Spring (Not Counted)						
<b>TOTAL</b>	<b>52</b>	<b>21</b>	<b>10</b>	<b>14</b>	<b>28</b>	<b>125</b>

RATIOS: RAM:EWE 54:100 LAMB:EWE 40:100 YEARLING:EWE 46:100

COUNT CONDUCTED ON JULY 3<sup>rd</sup>, 4<sup>th</sup>, & 5<sup>th</sup>, 1999 Temperatures were 106, 108, & 111F

\* More sheep were observed at site, but same animals were seen earlier at adjacent count site.

THANKS to all of you!

Mark C. Jorgensen

## DEPARTMENT OF PARKS AND RECREATION

Anza-Borrego Desert State Park  
200 Palm Canyon Drive  
Borrego Springs, CA 92004



July 5, 1998

**Dedicated Sheep Count Volunteers:**

**Thanks for giving your time and holiday weekend to the 28th Annual Bighorn Sheep Count!** It was a job well done. The weather was not exceptionally hot at 104F. Our count is up from last year with good lamb:ewe numbers and good yearling survival. We did have one ewe found freshly killed by a mountain lion near Rattlesnake Spring. Thanks to each of you for your continued hard work and for being so dedicated to the Endangered Peninsular bighorn. The counts are going well because of your help. Great job! Hope to see you next year.

COUNT SITE	EWE	LAMB	YEARLING		no I.D.	RAM	TOTAL
			M	F			
Lower BPC Trail	4	0	0	3		2	9
1st Grove Palm Canyon	0	0	0	0		0	0*
2 <sup>nd</sup> Grove Palm Canyon	7	3	2	3		3	18
3rd Grove Palm Canyon	0	0	0	0		0	0
4th Grove Palm Canyon	0	0	0	0		0	0
Tubb Canyon Guzzler	2	0	2	0	3	6	13
Middle Spring-Tubb Cyn.	3	0	0	0		0	3
Big Spring-Tubb Cyn.	0	0	0	0		0	0*
Upper Hellhole	0	0	0	0		3	3
Lower Hellhole	7	2	2	1		3	15
Riding & Hiking Trail Site	0	0	0	0		0	0*
Flat Cat Canyon, BM "Ted"	4	2	0	0		2	8
Box Cyn.-Lower Willows	6	5	0	1		4	16
Lower Willows-Upper Site	4	3	0	1		2	10
Cougar Canyon (1 day)	0	0	0	0		0	0
S. Fk. Sheep (1 day)	0	0	0	0		0	0
N. Fk. Sheep Canyon	0	0	0	0		0	0
Salvador Canyon	0	0	0	0		0	0
Monkey Hill	0	0	0	0		0	0
Middle Willows	6	3	0	0		4	13
Upper Middle Willows	0	0	0	0		0	0*
Upper Willows	0	0	0	0		0	0
Rattlesnake Spring	2	1	0	0		1	4
Pinyon Ridge/Yaqui Pass	6	3	1	0		2	12
<b>TOTAL</b>	<b>51</b>	<b>22</b>	<b>7</b>	<b>9</b>	<b>3</b>	<b>32</b>	<b>124</b>

RATIOS: RAM:EWE 63:100 LAMB:EWE 43:100 YEARLING:EWE 31:100  
COUNT CONDUCTED ON JULY 3<sup>rd</sup>, 4<sup>th</sup>, and 5<sup>th</sup>, 1998

\* Sheep were observed at site, but same animals were seen earlier at adjacent count site.

**THANKS!**

*Mark C. Jorgensen*

Mark Jorgensen

**DEPARTMENT OF PARKS AND RECREATION**

Anza-Borrego Desert State Park  
200 Palm Canyon Drive  
Borrego Springs, CA 92004



July 6, 1997

**Sheep Count Volunteers:**

You have completed the 27th Annual Bighorn Sheep Count! Thanks for a job well done. The weather was great for the census with highs at 112F !! As expected, we had a low count--in fact the lowest ever, probably the result of continued drought and the high level of predation between 1993-1996. Although the ewe numbers are the lowest we've ever recorded, the number of lambs is encouraging for the possible recovery of this population in the future. Thanks to each of you for your continued dedication and going the extra mile for the desert bighorn. The counts are going extremely well because of all your help with coordination, transportation, attention to detail, and watching out for one another. Great job!

<u>COUNT SITE</u>	<u>EWE</u>	<u>LAMB</u>	<u>YEARLING</u>		<u>no I.D.</u>	<u>RAM</u>	<u>TOTAL</u>
			<u>M</u>	<u>F</u>			
1st Grove Palm Canyon	4	5	5	0		5	19
3rd Grove	0	0	1	0		2	3
4th Grove	1	1	0	0		0	2
Tubb Canyon Guzzler	9	1	0	0		0	10
Middle Spring-Tubb Cyn.	4	4	0	1		5	14
Big Spring-Tubb Cyn.	0	0	0	0		0	0
Upper Hellhole	1	0	0	1		5	7
Lower Hellhole	10	7	0	0		0	17
Box Cyn.-Lower Willows	4	0	0	0	4	1	9
Lower Willows-Upper Site	0	0	0	0		1	1
Cougar Canyon	0	0	0	0		0	0
S. Fk. Sheep Canyon	0	0	0	0		0	0
N. Fk. Sheep Canyon	0	0	0	0		0	0
Monkey Hill	1	0	0	0		3	4
Middle Willows	0	0	0	1		1	2
Upper Middle Willows	4	3	0	0		0	7
Upper Willows	1	1	1	0		1	4
Rattlesnake Spring	4	2	0	0		2	8
<b>TOTAL</b>	<b>43</b>	<b>24</b>	<b>7</b>	<b>3</b>	<b>4</b>	<b>26</b>	<b>107</b>

**RATIOS: RAM:EWE 60:100 LAMB:EWE 56:100 YEARLING:EWE 23:100**  
COUNT CONDUCTED ON JULY 4TH, 5TH, 6TH, 1997

**THANKS!**

Mark Jorgensen

**COLORADO DESERT DISTRICT  
 ANZA-BORREGO DESERT STATE PARK  
 200 PALM CANYON DRIVE  
 BORREGO SPRINGS, CALIFORNIA 92004**

July 8, 1996

Dear Sheep Counters:

You all did an admirable job of making the 1996 bighorn sheep count safe and successful. Thanks for a job well done! Weather was very hot on Day 1 @ 114 F and Day 3 was muggy with 80% humidity in mid-morning. You all deserve my heartfelt appreciation. Lambing success has declined as predicted, with only 2.4 " of rainfall in 95-96. We had 56 veteran counters this year and 17 new counters—thanks to all of you for your patience and willingness to help out in so many ways. We have a great team! Our sincere thanks to NYTOL and Brice & Associates for the beautiful sheep count hats and to the Anza-Borrego Desert Natural History Association its continued support.

Count Site	Ewe	Lamb	Yearling Male	Yearling Female	Ram	Total
1st Grove Palm Canyon	0	0	0	0	0	0
2nd Grove	2	2	0	1	0	5
3rd Grove	0	0	0	0	0	0
4th Grove	0	0	0	0	0	0
Tubb Canyon Guzzler	0	0	0	0	6	6
Middle Spring--Tubb Canyon	14	2	1	0	3	20
Big Spring--Tubb Canyon	0	0	0	0	5	5
Upper Hellhole Canyon	6	4	1	0	8	19
Lower Hellhole Canyon	7	2	5	1	4	19
Box Canyon-Lower Willows	4	2	0	0	1	7
Lower Willows--Upper Site	0	0	0	0	0	0
Cougar Canyon	0	0	0	0	2	2
South Fork Sheep Canyon	0	0	0	0	0	0
Lower N. Fk. Sheep Canyon	0	0	0	0	0	0
Salvador-- <i>Not Counted</i>						
Monkey Hill	7	2	0	0	0	9
Middle Willows	5	1	3	0	0	9
Upper Middle Willows	6	2	0	0	1	9
Upper Willows	4	2	0	0	0	6
Palm Wash Tinajas (DRY)						
Rattlesnake Spring	3	2	2	1	1	9
Montezuma Grade	1	0	0	0	2	3
<b>TOTAL</b>	<b>59</b>	<b>21</b>	<b>12</b>	<b>3</b>	<b>33</b>	<b>128</b>

RATIOS: RAM:EWE 56:100 LAMB:EWE 36:100 YEARLING:EWE 25:100

COUNT CONDUCTED ON JULY 5TH, 6TH, 7TH, 1996

**THANKS!**  
 Mark C. Jorgensen

## DEPARTMENT OF PARKS AND RECREATION

Colorado Desert District

200 Palm Canyon Drive

Borrego Springs, CA 92004

(619)767-5311

July 3, 1995



Dear Sheep Counters:

Thanks to every one of you for making the 25th Annual Sheep Count a great success. The weather was cool with a constant breeze--maybe a bit too comfortable for counters and sheep. You all did a wonderful job of spotting sheep and making identifications. We now have 25 years of data to analyze. The lamb to ewe ratio and yearling survival numbers are encouraging for the population. I appreciate your dedication to the bighorn and am proud to work with each one of you. We were fortunate this year to be sponsored by The Anza-Borrego Desert Natural History Association and Crystal Geyser Water Company, making it possible to provide you with plenty of cold water, tea, and sodas as well as nice commemorative coffee mugs. My sincere thanks to you all for a job well done.

*Mark C. Jorgensen*

Count Site	Ewe	Lamb	Yearling Male	Yearling Female	Ram	No I.D.	Total
Lower Trail Palm Canyon	1	0	0	1	0	0	2
1st Grove Palm Canyon	2	2	0	0	1	0	5
2nd Grove	3	1	2	0	1	0	7
3rd Grove	7	3	0	0	0	0	10
4th Grove	0	0	0	0	0	0	0
Tubb Canyon Guzzler	0	0	0	0	0	0	0
Middle Spring	2	0	0	0	17	0	19
Big Spring	0	0	0	0	1	0	1
Pinyon Ridge	0	0	0	0	0	0	0
Upper Hellhole Canyon	4	1	4	1	1	3	14
Box Canyon - Lower Willows	0	0	0	0	0	0	0
Lower Willows	11	1	1	0	0	0	13
Cougar Canyon	0	0	0	0	0	0	0
South Fork Sheep Canyon	0	0	0	0	0	0	0
N. Fork Sheep Canyon, Upper	0	0	0	0	0	0	0
N. Fork Sheep Canyon, Lower	0	0	0	0	0	0	0
Salvador Canyon, Upper	0	0	0	0	0	0	0
Salvador Canyon, Lower	0	0	0	0	0	0	0
Monkey Hill	6	1	0	1	2	0	10
Middle Willows	9	6	2	0	0	0	17
Upper Middle Willows	11	3	2	0	1	0	17
Upper Willows	1	0	0	0	0	0	1
Palm Wash Tinajas	4	1	1	1	0	0	7
Rattlesnake Spring	7	6	1	0	3	0	17
Montezuma Grade	4	4	0	0	0	0	8
<b>TOTAL</b>	<b>72</b>	<b>29</b>	<b>13</b>	<b>4</b>	<b>27</b>	<b>3</b>	<b>148</b>

RATIOS RAM:EWE 37:100 LAMB:EWE 40:100 YEARLING:EWE 24:100

Count conducted on July 1st, 2nd, 3rd, 1995