

m 10/25/91

United States Department of the Interior  
BUREAU OF LAND MANAGEMENT  
CALIENTE RESOURCE AREA  
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OCT 25 1991

4710.2  
NV-055.14

CAT

TO: Area Manager  
FROM: Wild Horse and Burro Specialist  
SUBJECT: Nellis Air Force Range Wild Horse Census

The Nellis wild horse census was conducted September 21-22, 1991. Two 206L Bell helicopters were used with 3 observers in each helicopter. Transects were flown approximately 1 mile apart in an east-west pattern. Ranges flown included; 71 north and south, 76 (including Stonewall), EC West, EC East, 75 east and west, and 74. These ranges correlate to the geographic areas known as Mudlake, Stonewall Flat, Cactus Flat/Gold Flat, and Kawich Valley. Horse numbers are listed according to range or geographic area.

Range	#Horses			Geographic Area	#Horses
	Adult	Young	Bobtails		
76	673	51	256	Stonewall Flat	724
EC East	73	2	0	Cactus Flat/ Gold Flat	1390
EC West	1029	84	539		
75	189	20	107		
71	493	31	0	Mudlake	524
74	834	111	0	Kawich Valley	945
<b>TOTALS:</b>	<b>3,284</b>	<b>299</b>	<b>902</b>		<b>3,583</b>

Notes: Number of bobtails is included in total number of adult horses.

A population estimate was calculated using the Lincoln Index ( $N = Mn/m$ ) where:  
 $N$  = # of marked animals = 1314  
 $n$  = Total # of animals counted = 3,583  
 $m$  = # of marked animals recounted = 902  
Therefore;  $N = (1314)(3583)/902 = 5,219$   
(Please note that the standard error in this calculation is greater than 20 percent.)

In addition, 91 burros were counted, 76 adults and 15 young in Ranges 71 and 76. One hundred thirty two bighorn sheep were counted on Stonewall Mountain.

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JWADSWORTH/wm 10/15/91