FOREST SERVICE 1/19/76

UNITED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE

HUMBOLDT NATIONAL FOREST

P. O. Box 539 Ely, Nevada 89301

REPLY TO:

2260 Wild and Free Roaming Horses

January 19, 1976

SUBJECT:

Population Dynamics - White Pine Division



TO:

Bureau of Land Management

ATTN: Milt Frei

Division of Standards & Technology Bldg. 50, Denver Service Center

Denver, Colorado 80225

Dear Milt:

Enclosed is the information you requested. I did not make a population count last summer or fall, but I hope to be out there this spring (1976). If I get some young/adult and yearling/adult ratios, I'll send the information to you.

Sincerely,

KENNETH TIMOTHY

Wildlife Biologist

APPENDIX 2

MORPHUT CLASSIFICATION OF HORSES

Actual Count -- Helicopter

<u>Date</u> <u>Adults</u>		Yearlings	Colts	
Jan 1975	161	No Count	34 (6 mo. old)	
Aug 1975	170	17	33	
Jan 1976	152	14	30	

Count by Area -- Helicopter

January 1975:					Foals/	YEARLING!	Dorgont
Location	Adults	Year	lings	Foals	100 A.	100 A	Mortality
Granite Mountain	29	No C	count	5	17.2	h	
Wildcat Mountain	8	11	11	3	37.5		
Rydalch	10	11	"	4	40.		
English Village area	44	11	11	9	20.5		
Wig Mountain area	70	***	" -	13	18.6		
TOTAL	161			34	21.1		
August 1975:			-				
Granite	38	4	•	13	34.2	10.5	39
Wildcat Mountain	0	0		0			
Rydalch	28	3		3	10.7	10.7	73

•				Foais/100 A	YEAR/100A	olo mortality
English Village area	37	-5	10	27.	13.5	34
Wig Mountain area	67_	_5_		10.5	7.5	60
TOTAL	-170	17	- 33	19.4	10.0	53%
January 1976:						
Granite	39	4	14	35.9	10.3	40
Wildcat Mountain	7	1	3	42.3	14.3	62
Rydalch	13		1	7.7	.0	100
English Village area	24	4	4	16.7	16.7	3.8
Wig Mountain area	69	5	_8:	11.6	7.3	61.0
TOTAL	152	14	30	19.7	9.2	56%

Additional Data:

Average Band Size -- 4.8

Sex Ratio -- 50/50

In October of 1975, 10 adults, 4 colts and 4 yearlings were removed from Dugway Proving Ground. These horses were creating a problem in the housing area of Dugway. In analyzing these data this removal did not affect the mortality figures in age class 0-1. This is significant because it indicates that comparable samples will produce accurate mortality data even though exactly the same animals were not counted on subsequent flights. The removal did affect total numbers. The January 1976 count may be adjusted to 162 adults, 18 yearlings and 34 colts.

The data also indicates that the 50+percent mortality in age class 0-1 is occurring during the period January-August. Probable reasons for this are foals being weaned in the early spring, tough spring storms and the natural die-off of animals that typically occurs during this period of time. In most wild populations, die-offs will occur in the spring after it appears that animals should survive. (Refer to any standard wildlife populations study.)