

DEPARTMENT OF THE ARMY  
OFFICE OF THE POST ENGINEER, YAKIMA FIRING CENTER  
YAKIMA, WASHINGTON 98901

YFC-ENG

2 August 1968

Mr. A. L. Hormay  
Range Conservationist, Bureau of Land Management  
P. O. Box 245  
Berkley, California 94701

Dear Gus:

I would appreciate receiving any information that you may have acquired on rest-rotation grazing as it may apply to the California annual type coastal range.

Until January of this year I worked for the Bureau of Land Management at Baker, Oregon, as an Area Manager. I then transferred to the Dept. of Army at the Yakima Firing Center, Yakima, Washington.

The Army is just entering into the field of grazing management on their installation. I recently devised a grazing system using rest-rotation principles here at the Firing Center. As a result of this I have been asked to present to a Land Management Conference of Army employees in October, a talk on Grazing Management Systems and the application of these systems on range lands. The conferees will come primarily from the military posts along the California coast, south of San Francisco. I know very little about the country or the begetation it produces. I would appreciate any information that you may be able to provide or any references that you may be able to provide me.

Thank you,

*Malcolm T. Shrode*

MALCOLM T. (Bud) SHRODE  
Management Agronomist



UNITED STATES  
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

320 North First East

Kanab, Utah

84741

IN REPLY REFER TO:

4115.16

August 5, 1968

August L. Hormay  
Range Conservationist  
Bureau of Land Management  
P.O. Box 245  
Berkeley, California 94701

Dear Mr. Hormay:

In the fall of 1967, we initiated what was then called a rest-rotation system on the Upper Cattle Allotment; however, the system does not meet our requirements outlined for rest-rotation, but fits closer to our requirements for a rotation system. The Upper Cattle Allotment was to be the first rest-rotation system implemented in the Kanab District. The system was worked out by yourself and John Baker, now of the Glenwood Springs Office, in 1966 to divide the Upper Cattle Allotment, having a season of use from 11-1 to 6-15, into 4 pastures (10 Mile Flat, Seep Flat, Allen Dump and Spencer Flat) and grazed as follows:

1. Graze two pastures each year from 11-1 to 3-31.
2. Graze one pasture from 4-1 to 6-15.
3. Rest one pasture for the entire grazing season.

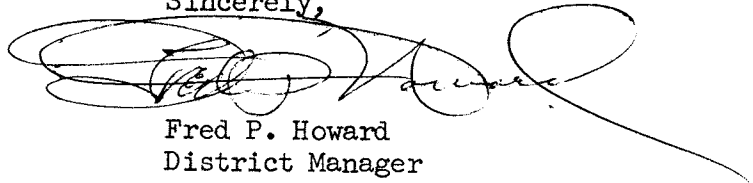
After seeing this system in operation the first year, we found that providing sufficient livestock water is going to be our biggest problem. The Spencer Flat pasture has no live water with little possibility of development. The pasture has sufficient natural tanks, with the slickrock tanks we are developing, to supply livestock water during the fall grazing period. The tanks are seldom full during the late winter and early spring, but are nearly always full in the fall due to our fall storms. Since this system basically provides a systematic rest during the critical spring growing season, we feel the use of Spencer Flat pasture each fall would solve our water problem. The system would then be grazed as follows:

Season of Use	1969	1970	1971	1972
11-1 to 3-31	Spencer Flat	Spencer Flat	Spencer Flat	Spencer Flat
11-1 to 3-31	Seep Flat	10 Mile Flat	Allen Dump	Seep Flat
4-1 to 6-15	Allen Dump	Seep Flat	10 Mile Flat	Allen Dump
Rest	10 Mile Flat	Allen Dump	Seep Flat	10 Mile Flat

With the Upper Cattle Allotment being the first rest-rotation grazing system in the Kanab District, we would appreciate your comments concerning the system and proposed change before the change is initiated.

Attached is a map of the Upper Cattle Allotment showing the pasture fences and livestock water which we hope will orient you with the Allotment.

Sincerely,



Fred P. Howard  
District Manager

FPHoward:jc





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Oregon State Office  
P. O. Box 2965 (729 N. E. Oregon Street)  
Portland, Oregon 97208

IN REPLY REFER TO:

1400/4112.15(c)  
100.3a

AUG 7 1968

Instruction Memorandum No. ORE-68-350  
Expires 12/31/68

To: All District Managers  
From: State Director, Oregon  
Subject: AMP Training - Vale District -- State Wide

An informal AMP training and discussion meeting is planned to be held at the Vale District Office October 15, 1968. This is one day prior to the Hormay training session tentatively scheduled for October 16, 17, and 18, 1968.

Persons involved with the preparation of AMPs who will attend the Hormay session should plan to be at Vale a day early and also attend the AMP meeting. State Office and Portland Service Center representatives will be present.

Please submit, by August 30th, names of persons you wish to attend the Hormay session and those who also should attend the AMP meeting. An agenda will be sent to you later outlining specific AMP items to be covered. Your suggestions for discussion items involving the preparation of AMPs will be appreciated.

Mr. Hormay may spend time in the field October 14 and 15 with some Vale personnel in connection with problem allotments. This will not require re-scheduling the October 15th meeting.

We will keep you advised of any changes.

cc:  
Director, PSC  
Training Officer, OSO  
A. L. Hormay

Acting



*Farway*

IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
STATE OFFICE  
Post Office Box No. 11505  
Salt Lake City, Utah 84111

4112.6

August 9, 1968

Instruction Memorandum No. USO 68-137  
Expires: 12/31/68

To: District Managers, Utah

From: State Director, Utah

Subject: Rest Rotation - Training Session

Final arrangements for the Rest Rotation Grazing Training school have been completed and the school will be held at Price, Utah, Wednesday, September 11 through Friday, September 13, 1968 at the Science Lecture Room, College of Eastern Utah. The session will begin promptly at 8:00 a.m., Wednesday morning.

The following listed people are authorized to attend this training session:

Lowell Decker	Area Manager, Lakeside Res. Area
Ron Trogstead	Wildlife Specialist, Salt Lake District
Darwin Anderson	Area Manager, Fillmore Res. Area
David S. Orr	Area Manager, Delta Res. Area
Steve Wilkinson	Area Manager, Milford Res. Area
Gordon Staker	Area Manager, Cedar Res. Area
Ken Drew	Area Manager, Henry Mt. Res. Area
Dale Ross	Area Manager, Wonderland Res. Area
Carl Thurgood	Area Manager, Sevier Res. Area
Thomas A. Moore	Chief, Resource Div., Monticello
Art Hosterman	Area Manager, Canyonlands Res. Area
K. Lynn Bennett	Area Manager, Mountain Res. Area
Blaine Lunceford	Area Manager, River Res. Area
Elmer S. Duncan	Range Conservationist, Vernal District
Francis R. Cherry	Range Conservationist, Vernal District

Area Manager, Escalante Res. Area  
Range Specialist, Kanab District  
Range Conservationist, Kanab District  
Range Conservationist, Kanab District

Total 19.

Edward J. Hume

ACTING

WO-732a  
DSC-732  
Gus Hormay ✓  
Each participant



UNITED STATES  
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

STATE OFFICE

Post Office Box No. 11505

Salt Lake City, Utah 84111

IN REPLY REFER TO:

4112.6

August 12, 1968

Instruction Memorandum No. USO 68-137, Change 1  
Expires: 12/31/68

To: District Managers, Utah  
From: State Director, Utah  
Subject: Rest Rotation - Training Session

The following listed people are authorized to attend the rest  
rotation training session in addition to those listed in

Instruction Memo No. 68-137:

John D. Carlson, Area Manager  
F. Rex Rowley, Range Conservationist  
Marc C. Bingham, Wildlife Biologist  
J. Melvin Staheli, Natural Resource Specialist  
Harold E. Isaacson, Natural Resource Specialist

Attachments

Distribution:  
WO-732a  
DSC-732  
Gus Hormay ✓  
Each participant

*Clark M. Reed*  
ACTING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C. 20240  
P. O. Box 245  
Berkeley, California 94701

4112 (712a)

April 12, 1968

AIRMAIL

To: State Directors (Except Alaska)

From: A. L. Hormay, Range Conservationist, Berkeley

Subject: Rest-rotation Grazing Training

Enclosed is a copy of my revised work schedule. I have taken on additional assignments and firmed up certain dates since I wrote you last. Please let me hear from you on changes if the schedule for your state is not satisfactory.

Several have inquired about the attendance at the training schools. The maximum number of trainees at a session should be about 60. Various interests should be encouraged to attend. Trainees at recent schools in addition to BLM personnel included representatives from the Forest Service, State Fish and Game Departments, Bureau of Sports Fisheries and Wildlife, Soil Conservation Service, Agricultural Stabilization and Conservation Service, Extension Service, Bureau of Indian Affairs, State Agriculture Departments, Banking Agencies, Southern Pacific Railroad Company, clergy and stockmen.

About 225 trainees attended the last four Bureau sponsored schools. One hundred and fifty were Bureau people. Seventy-five were from other interests.

Enclosed is a list of equipment that is used at the schools. I am also enclosing a short biography of myself. Several have asked for this information for introducing the sessions.

My address and telephone number are as follows:

Pacific Southwest Forest and Range Experiment Station  
P. O. Box 245  
Berkeley, California 94701

Telephone: My office, room 326 Stead Building  
FTS 8-415-841-3232  
Experiment Station, Stead Building  
FTS 8-415-841-5121

Enclosure  
cc:  
G. D. Fulcher (712a)

*A. L. Hormay*

REVISED WORK SCHEDULE - A. L. Hormay

April 15, 1968 - February 1969

Bureau of Land Management, Berkeley, California

April 1968

15-25	BLM New Mexico	Allotment field appraisal and range training school in Roswell. <u>1/</u>
26	Travel	
29	Travel	
30-May 3	BLM Oregon, Lakeview District	Range and bitterbrush management.

May 1968

6-8	BLM California, Bakersfield District	Bitterbrush management, Wells Meadow Allotment.
9-10	Office, Berkeley <u>2/</u>	
13	Travel	
14-16	Colorado	Range training school in Denver.
17	Travel	
20-24	Office, Berkeley	
27-June 3	Field research, Lassen N.F.	

June 1968

4-6	BLM California	Range training school in Sacramento.
7-14	Office, Berkeley	
17-21	BLM Wyoming, Rock Springs	Range management planning, Cumberland Unit.
24-28	Office, Berkeley	

1/ Range training school now 3 days long.

2/ Paper work and research.

July 1968

1-10	Field research, Lassen N.F.	
11-13	BLM Nevada, California	Range training. Bureau-wide wildlife specialists. At Reno, Harvey Valley and Wells Meadow Allotments.
15-26	Office Berkeley	
29-August 1	Utah	With Idaho Cattlemen, Range Use Coordinating Committee to see wildlife range improvement work by the Intermountain Forest and Range Experiment Station.

August 1968

2	BLM Idaho, Burley District	Visit demonstration allotment, near Oakley. Planned by Idaho Cattlemen Range Use Coordinating Committee.
5-9	Field research, Lassen N.F.	
12-16	Office, Berkeley	
19	Travel	
20-29	BLM Montana	Allotment field appraisal and range training school in Billings.
30	Travel	

September 1968

2-6	Office, Berkeley	
9-13	BLM Utah	Allotment field appraisal and range training school in Price.
16-18	BLM Nevada	State Advisory Board field trip in Winnemucca District.
19-20	BLM Montana	Watershed management workshop at Rapid City, South Dakota.

September 1968 (contd)

23-27                      BLM Idaho                      Field appraisal allotment management.

30-October 4              Office, Berkeley

October 1968

7-11                      BLM Wyoming                      Allotment field appraisal and range training school. Location ?

14-18                      BLM Oregon                      Allotment field appraisal and range training school in Vale

21-25                      Office, Berkeley

28-November 8              Field research  
Lassen N.F.

November 1968

11-15                      Office, Berkeley

18                          Travel

19-21                      BLM Nevada                      Range training school for stockmen in Elko

25-29                      Office, Berkeley

December 1968

2-31                          Annual leave  
Office, Berkeley

January 1969

6-9                          Arizona                          Lecture at Stockmen's School Agriservices Foundation in cooperation with Arizona State University, Phoenix

February 1969

3-14                          Idaho                          Range training Schools for Idaho Cattlemen. 1/

1/ Tentative - to be arranged yet.

Classroom Equipment  
for  
Rest-Rotation Grazing Management  
Training Schools

Conducted by A. L. Hormay

<u>Number</u>	<u>Item</u>
2	35 mm. slide projectors, Kodak Carousel, with Zoom lenses if possible. Otherwise with standard lenses of the same focal length.
2	Extra light bulbs for projectors.
2	Projection screens. Size to fit room and suit viewers. Set screens high enough so people in back of the room can see over the heads of people in front.
2	Easels (sturdy) for 2' x 3' or larger size paper work sheets. These should be set high enough so people in back of the room can see the bottom of the sheets.
6	Pads of paper work sheets.
4 each	Black, red, and green felt-tipped ink scribes.
1	Pointer.
1	Loud-speaker setup with neck-supported portable microphone on at least a 12-foot cord.

Please set up all equipment and make sure it is in working order and suited to the room prior to the start of the school.

## BIOGRAPHICAL SKETCH

### A. L. HORMAY

August L. "Gus" Hormay, developer of the rest-rotation system of grazing management, is with the Bureau of Land Management. He is attached to the BLM's division of range management in Washington, D. C. He transferred to the Bureau in 1966 after spending 36 years with the Forest Service in range research at the California (now Pacific Southwest) Forest and Range Experiment Station, Berkeley, California.

Mr. Hormay's job with the Bureau is that of range management advisor. Most of his work is in the Western States so he is headquartered in the field. His office is at the Forest Experiment Station in Berkeley.

A graduate in forestry at the University of California in 1930, Mr. Hormay began working at the Experiment Station in 1931. In 1935 he was placed in charge of the mountain range project where he set up a course of studies that led to the development of the rest-rotation grazing system.

Mr. Hormay outlined the principles of the system in 1948 and started a pilot study of it on the Harvey Valley cattle allotment on the Lassen National Forest in northeast California in 1952. The system is now being applied on many different kinds of ranges throughout the West with good results.

Mr. Hormay received a Superior Service Award from the U. S. Department of Agriculture in 1957 for developing the system. He has written numerous publications on range management and related subjects. He is a member of the American Society of Range Management, Society of American Foresters, Ecological Society of America, American Association for Advancement of Science, American Institute of Biological Sciences, California Botanical Society, and National Wildlife Federation.

Since 1960 Mr. Hormay has spent much of his time explaining the principles of rest-rotation grazing to a broad array of interests concerned with range and wildland management. He has conducted several week-long training courses on the subject for the Bureau of Land Management and the Forest Service.

4112(712a)

P. O. Box 245  
Berkeley, Calif. 94701

August 15, 1968

AIRMAIL

Memorandum

To: Chief, Range Management Staff (712a), Wash., D. C.  
From: A. L. Hormay, Range Conservationist, Berkeley  
Subject: Monthly Report, July 1968

*General*  
*Calif.*  
1. I attended the Western States Game and Fish Commissioners Meeting in Reno the afternoon of July 10 and the morning of the 11th. On July 12, I showed John McKeen, Dr. Don Leckenby, Robert Stein and another member of the Oregon Fish and Game Department research and management work with bitterbrush on the Blacks Mountain Experimental Forest and on the Harvey Valley Cattle Allotment on the Lassen National Forest near Susanville.

*Idaho*  
2. I attended the Owyhee Cattlemens Meeting at Silver City, Idaho the 27th and gave a 45-minute talk on rest-rotation grazing.

*Utah*  
*(Idaho)*  
3. I made the tour through Utah with the Idaho Cattlemens Range Use Coordinating Meeting, July 28-31, and picked up several points of information useful in grazing management.

A. L. Hormay

Hormay

4115.16

P. O. Box 245  
Berkeley, Calif. 94701

August 16, 1968

Fred P. Howard, District Manager  
Bureau of Land Management  
320 North First East  
Kanab, Utah 84741

Dear Fred:

I am sorry but I did not have time to go over the Upper Cattle Allotment grazing plan while I was in the office this past week. I am leaving for Montana this weekend and will be away for several weeks.

I will be glad to go over the plan with the men from your District at the range training school in Price, Utah the 2nd week of September. I hope that is not too late.

Sincerely,

A. L. Hormay

A. L. HORMAY  
Range Conservationist

P. O. Box 245  
Berkeley, Calif. 94701

April 18, 1968

Memorandum

To: State Director, Utah

From: A. L. Hormay, Range Conservationist, Berkeley, Calif.

Subject: Rest-Rotation Grazing Training

I have set up the week of September 9-13 for the range training school and any associated field trips in your State. I am planning to travel on September 8 and 14, so I can spend the full five days with you.

Please feel free to schedule the school any time during the week that is most suitable to you. At your convenience will you kindly let me know where the school will be held and where you would like to have me start the week.

A. L. Hormay

UNITED STATES GOVERNMENT

# Memorandum

4112.16

TO : District Manager, Salt Lake

DATE: August 19, 1968

FROM : State Director, Utah

SUBJECT: Visit of Gus Hormay to Yost Pastures

Since the Salt Lake District is one of two districts in Utah that Gus has not had the opportunity to make a field review of a rest rotation system, I feel that this would be an opportune time to make such a review. Therefore my staff will be in touch with you to make arrangements for a trip to the Yost Pastures on September 9, 1968.

I believe it will be advantageous to have your Chief of Resource Division and the Area Manager present for the field review. You should have a map of the area and Forms 4112.2 and 4112.3, Allotment Data, available for Mr. Hormay.

Because of a tight schedule it will be necessary to travel on Sunday, September 8, so that the group can be on the allotment early Monday morning. Nick Cozakos will firm up arrangements with you as soon as Gus has advised us of his arrival time in Salt Lake City.

cc: Gus Hormay ✓

*RD Nelson*



5010-108

*Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan*

UNITED STATES GOVERNMENT

# Memorandum

4112.16

TO : District Manager, Vernal

DATE: August 19, 1968

FROM : State Director, Utah

SUBJECT: Visit of Gus Hormay to Donkey Flat Allotment

This will confirm arrangements made by telephone with you for Gus Hormay's visit to the Donkey Flat Allotment on Tuesday, September 10, 1968.

Your suggestion to have Mr. Hugh Colton, the allottee, and some advisory board members on the field trip seems appropriate and will give your users the opportunity to ask Gus questions concerning rest rotation.

Would you please forward directly to Gus a map of the allotment and a copy of your forms 4112.2 and 4112.3 (Allotment Data).

The plan is to leave for Price Tuesday afternoon.



cc: Gus Hormay



5010-108

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO:

4112.16

STATE OFFICE  
Post Office Box No. 11505  
Salt Lake City, Utah 84141

August 19, 1968

Memorandum

To: A. L. Hormay, Range Conservationist, Berkeley, Calif.  
From: State Director, Utah  
Subject: Rest Rotation Grazing Training

We have made the final arrangements for the training session to be held in Price, September 11-13. There will be 25 BLM personnel, 15 Forest Service people, and we expect several participants from the Soil Conservation Service.

As Mr. Cozakos discussed with you on the telephone, he will plan to meet you at the Salt Lake City Air Terminal Sunday, September 8, 1968. You will travel to Brigham City with personnel from the Salt Lake District so that an early start can be made to the Yost Pastures Monday morning. The plan is to travel to Vernal Monday evening and review the Donkey Flat Allotment Tuesday in company with the user, Hugh Colton, and Vernal District personnel. On Tuesday evening the plan is to travel to Price for the training session beginning on Wednesday morning. — CWA

Will you please advise me as to your arrival time on Sunday, September 8.

We are looking forward to a successful training session.

*R. D. Nelson*

P. O. Box 245  
Berkeley, Calif. 94701

August 19, 1968

Mr. Malcolm T. Shrode  
Management Agronomist  
Department of the Army  
Office of the Post Engineer  
Yakima Firing Center  
Yakima, Washington 98901

Dear Bud:

I am sending you copies of several publications bearing on annual-type ranges in California. None deal pointedly with grazing management or grazing management systems. About the only proposal on management is moderate use, and this is by no means the complete answer to maximum sustained production of forage and livestock.

I hope to put down a few thoughts on rest-rotation grazing management of annual type ranges on paper one of these days when I find the time. Am extremely busy. Sorry I could not help you more.

Good luck in your new job.

Sincerely,

A. L. Hormay

A. L. HORMAY  
Range Conservationist

Enclosures

Form 1541-1  
(May 1967)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SHORT NOTE TRANSMITTAL

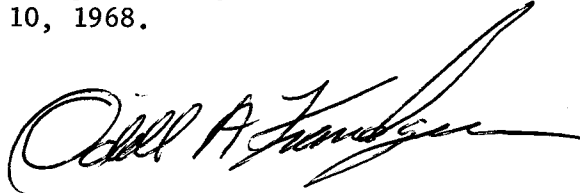
4112.16

August 21, 1968

(Date)

TO : A. L. (Gus) Hormay, Forest Experiment Station  
FROM : District Manager, Vernal  
SUBJECT: Donkey Flat Allotment - Map and Allotment Data

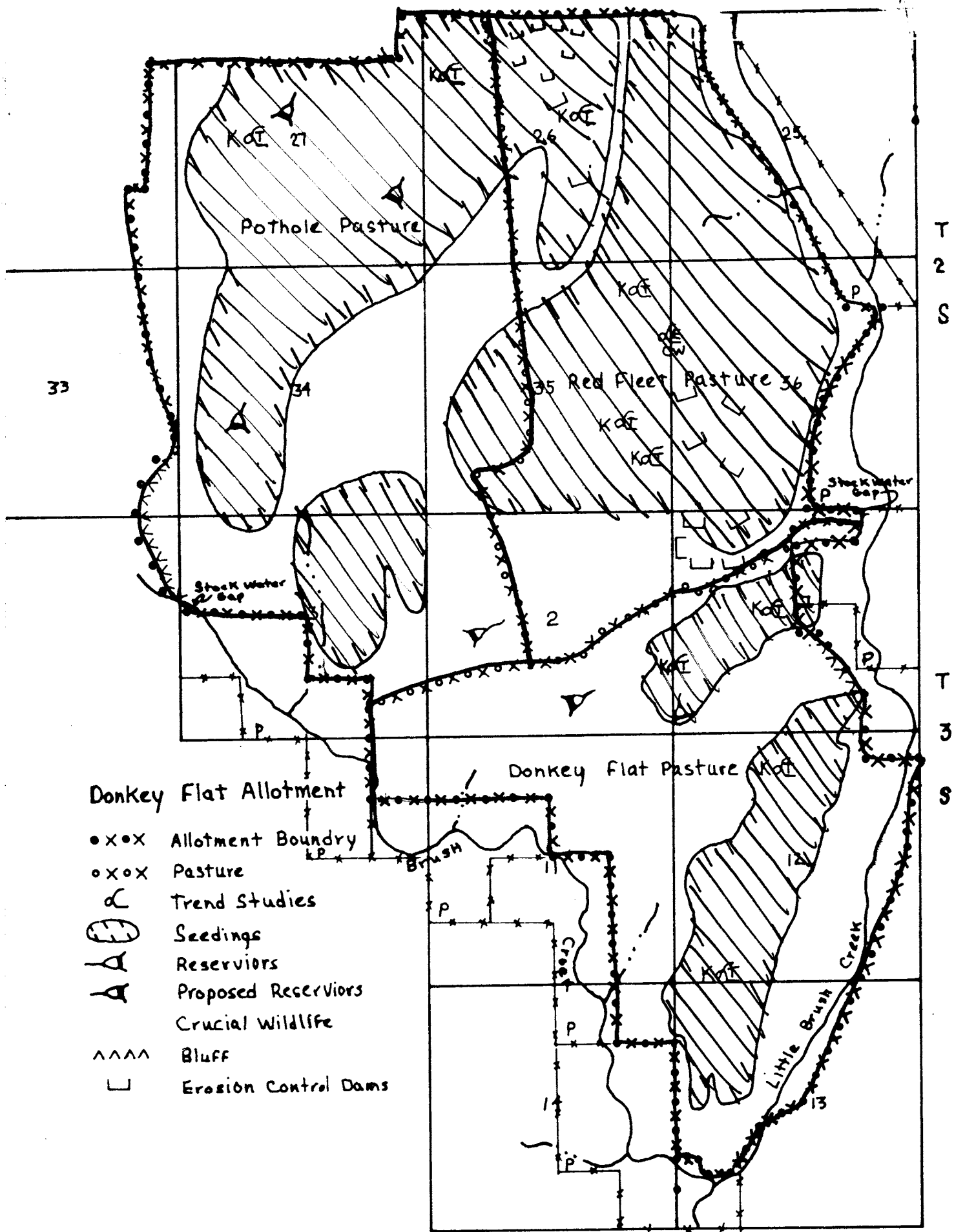
Attached are the allotment map and copies of Forms 4112-2 and 4112-3 for the Donkey Flat Allotment management plan for your review prior to your visit to our district on September 10, 1968.



Attachments

Note: Return this form when action is completed or attach it to data requested

AP 14 A



Donkey Flat Allotment

- xox Allotment Boundary
- oxox Pasture
- d Trend Studies
- ⊗ Seedings
- A Reservoirs
- P Proposed Reservoirs
- Crucial Wildlife
- ^^^ Bluff
- L Erosion Control Dams

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

District

Vernal

COMPOSITION, VALUE, USE, AND DEVELOPMENT  
OF  
PLANT SPECIES BY VEGETATIVE TYPES

Date

2-21-68

Allotment or Management Unit Donkey Flat	Vegetative Type 1-Agr	Number of Acres 2775
---	--------------------------	-------------------------

GRAZING CAPACITY (AUMS)

Potential (by management and artificial rehab.) It has been estimated that when seedlings become fully established, they will produce	PRESENT AUMS
	LIVESTOCK
	WILDLIFE
	432
	123

SPECIES	COMPO-SITION	FORAGE VALUE * (check one)					UTILIZA-TION AVG.	DEVELOPMENT STAGES					
		PER-CENT	EX	GD	FR	PR		PER-CENT	DATE				
									START GROWTH	FLOWERING	PEAK OF FLOWERING	SEED RIPE	SEED DIS-SEMINATE
Grasses Agcr	60	x					60	4/1	5/15	6/1	7/15	8/30	5/30
Forbs Saka	10				x			5/1	6/1	6/15	7/1	8/30	
Shrubs Artr	15			x			50	4/15	7/1	8/1	9/15	10/1	5/15
Atca	10	x					60	5/1	7/15	8/1	10/1	10/15	5/15
Chna	5	x					40	5/1	7/15	8/1	9/15	10/1	5/15

\* Forage value based on preference of livestock or game Ex = Excellent Gd = Good Fr = Fair Pr = Poor

\*\* How late in spring species can be grazed and still produce grazeable leaves, twigs, or seed-producing flower stalks

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

District

Vernal

DESCRIPTION, INVENTORY, AND EVALUATION OF ALLOTMENT  
FOR  
ESTABLISHMENT OF GRAZING SYSTEM

Date

2-23-68

Allotment or Management Unit <b>Donkey Flat</b>	Vegetative Type <b>1-Agr</b>
--	---------------------------------

Examiner(s)

**K. Lynn Bennett**

Permittee(s)

**Hugh Colton, Leland McNeill and Don Sadlier**

Class of Stock

**Cattle**

Stocking (AUs)

**224 Spring - 305 Fall**

(AUMs)

**402**

SEASON OF USE

FROM <b>May 1</b>	TO <b>May 30</b>	FROM <b>10/15</b>	TO <b>12/5</b>
Vigor of Forage Species <input checked="" type="checkbox"/> good <input type="checkbox"/> fair <input type="checkbox"/> poor		Percent ground cover * <b>12</b>	Utilization <b>60</b>
Degree of erosion <input type="checkbox"/> slight <input checked="" type="checkbox"/> moderate <input type="checkbox"/> severe		Key Species <b>Agcr</b>	

DATE

Start of growth <b>4/1</b>	Flowering <b>5/15</b>	Peak of flowering <b>6/1</b>
Seed ripe <b>7/15</b>	Seed disseminated <b>8/30</b>	Regrowth <b>5/30</b>

Production and storage of plant food for key species (critical dates)

**5/1 to 7/30**

TREAT- MENT	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
				Start Growth	Season of Use						Season of Use	
A					Graze		Seed Ripe				Graze	
B					Rest and Spray Artr						Rest	
C					Rest to Set Seed						Graze	
					Flowering							

\* Ground cover includes all vegetation (basal cover of grasses and crown cover of shrubs) and litter

UNITED STATES GOVERNMENT

Department of Agriculture—Forest Service  
Washington, D. C. 20250

# Memorandum

TO : Director, PSW

File No. 1630 (2200)

FROM : Kenneth W. Parker, Director, Range  
Management & Wildlife Habitat Research  
R. M. DeNio, Director, Range Management, By

Date: August 21, 1968

SUBJECT: Written Information

Your reference:

Reference the report by Reppert and Ratliff on the Harvey Valley allotment which was sent to us with your memorandum of April 25, 1968. We regret the delay in response but it was not feasible, until recently, for DeNio, Evanko, Parker and Paulsen to get together.

We have reviewed the report and the authors are to be commended for putting together a very worthwhile documentation of the history of this study area. In addition they have composed a good evaluation of the available data.

Our joint comments follow.

1. We do not believe that the data can justify a Departmental publication at this time. If the repeat measurements are made as planned in 1974, another look should be taken at the data and publication in a Department series should then be considered.

2. We believe the present report should not be distributed outside the Forest Service. We suggest that it be sent to the other Western Stations but clearly labeled "For information, and not for publication, nor to be cited as a reference." Upon specific request, as from Hormay, a copy might be sent to BLM.

3. We urge that the authors consider developing one and perhaps two technical journal or Station papers from the report. Possibly one could report the record for the period 1954-1963 and a second, the data from the comparable plot pairs. With the work already summarized this should not be difficult or too time-consuming.

4. In the preparation of the article or articles, we suggest that the authors answer the question "why didn't Harvey Valley respond in a greater degree to rest-rotation grazing?" Responses elsewhere on National Forest land have been dramatic in both forage and animal production. And, Harvey Valley is the granddaddy of them all! Its educational value to both public range administrators and private ranchers has been tremendous. Case histories from the National Forests in the West should be obtained from the Regions and used in one or both articles to document the value of rest-rotation grazing.

"Before and after" photos would have greatly enhanced the report. These are undoubtedly available somewhere. They should be unearthed since they are an integral part of the Harvey Valley effort and should be used to illustrate future publications. It may also be worthwhile for Ratliff to obtain more up-to-date repeat photos.

*Neunathw. Fisher*

*D. M. Dummer*

*File, Please*

4112.16 (910a)

State Office  
P. O. Box 1828  
Cheyenne, Wyoming 82001

August 22, 1968

Mr. James B. White, Commissioner  
Wyoming Game and Fish Commission  
P. O. Box 1589  
Cheyenne, Wyoming 82001

Dear Jim,

Some time ago we visited with Rex Corsi concerning a rest rotation grazing system training session conducted by A. L. (Gus) Hornay. This would be the full course or an enlargement of the presentation Gus made at your spring meeting in Rock Springs. The session is scheduled to be held in Worland, October 7 thru 9.

In our discussion with Rex, he indicated these dates would be satisfactory and that you may wish to send approximately 10 of your people. Rex Colton, our Worland District manager, is making arrangements and will take care of reservations if you wish.

We would like a list of those attending, and Rex Colton would appreciate hearing from those wishing hotel/motel reservations by September 23. Should you have any questions, please contact me.

Sincerely yours,

Ed Pierson  
State Director

cc:  
Mr. A. L. Hornay ✓

(Sgd) John T. Wassenaar

By \_\_\_\_\_ Acting

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
INTERMOUNTAIN REGION

FEDERAL OFFICE BUILDING  
324 25TH STREET  
OGDEN, UTAH 84401

IN REPLY REFER TO

UTAH STATE OFFICE  
6140 (2200)

Rt.	Div.	Initial	Date
1	S. D.		August 23, 1968
	L & M		8/21/68
2	R.P.M.		
	Eng.		
	Adm.		
	Econ.		
3	P.H.O.		
	Plan.		

R. D. Nielson, State Director  
Bureau of Land Management  
P. O. Box 11505  
Salt Lake City, Utah 84111

Dear Bob:

We certainly appreciate your invitation to participate in your "rest-rotation" training session in Price, September 11-13. Following is the list of personnel who we would like to have attend. If this number is more than you can conveniently accommodate, please let us know.

Name

Unit

1 Richard Webster  
2 Drew Bellon  
3 Herbert Allen  
4 Bruce W. Reese  
5 Frank R. Jensen  
6 Delmer C. Stott  
7 Charles P. Birkemeyer  
8 Darrel C. Hoffman  
9 William J. Little  
10 L. Glen Quigley  
11 Robert B. Terrill  
12 Robert M. Thompson  
13 Douglas P. Reid  
14 Ward F. Savage  
15 Marvin Combs

Ashley N.F. - Manila District  
" - Roosevelt District  
" - Duchesne District  
Cache N.F. - Supervisor's Office  
Dixie N.F. - Supervisor's Office  
" - Teasdale District  
" - Enterprise District  
Fishlake N.F. - Supervisor's Office  
" - Supervisor's Office  
" - Kanosh District  
Manti-LaSal N.F. - Supervisor  
" - Supervisor's Office  
" - Ferron District  
Uinta N.F. - Supervisor's Office  
Wasatch N.F. - Mountain View District

Sincerely yours,

F. C. CURTISS  
Assistant Regional Forester  
Division of Range Management



By *Colvin E. Ross*

# Wildlife Habitat Mgmt Workshop

Field trip

24 Aug 68

Castle Peak W.A.

	Name	State	Agency
1	Paul Applegate	Colorado SO	BLM
2	Mayo Call	Utah SO	BLM
3	Ed Webb	Arizona Phoenix	BLM
4	Dave Luman	Oregon SO	BLM
5	Ed Smith	California SO	BLM
6	Rick Brigham	Nevada ELKO	BLM
7	Sal de Leonardis	Alaska SO	BLM
8	Hugh Harper	Idaho SO	BLM
9	Rex Zobell	Wyoming SO	BLM
10	Don McIntosh	Montana SO	BLM
11	John Crawford	New Mexico SO	BLM
12	Bob Borovicka	PSC	BLM
13	Frank Stanton	PSC	BLM
14	Terry McGowan	DSC	BLM
15	Joe Townsend	DSC	BLM
16	Tom Acler	DSC	BLM
17	Gene Moore	<del>Devado</del> Winnemucca DO	BLM
18	Dick Kerr	WO	BLM
19	John Baker	Colorado	BLM
20	Bruce Gill	Colorado	G.F.P.
21	Elwin Price	WO	BLM
22	Gus Hornum	Berkeley Calif	BLM
	Loveless		
23	Charles Loveless	Denver	

**WILDLIFE HABITAT MANAGEMENT**  
**WORKSHOP**

**Field Problem**

**Castle Peak Wildlife  
Habitat Area**

**Saturday Aug. 24, 1968**

**Vail, Colorado**

BACKGROUND INFORMATION ON GAME MANAGEMENT  
AREA 35 - CASTLE PEAK

Size

10,180 acres - State  
37,120 acres - Private  
27,520 acres - Forest Service\*  
108,800 acres - BLM  
183,620 Total acres

\*Forest lands will be administered by BLM in the near future as a result of a land exchange.

Wildlife Data

- Deer -
1. Limiting factor is winter range.
  2. The majority of the winter range is BLM.
  3. For harvest information see Attachment Number 1.
  4. Browse Utilization Tables show that about 60% of the current year's growth is being removed each year and 66% each year on the lower transects. See Attachment Number 2 for Production, Utilization and Deer Days Use/Acre on Cemo.
  5. For composition, value, and development of plant species see Attachment Number 3.
  6. Percentage non-resident hunters - 15%.  
Average number day per hunter - Resident - 5.17  
Non-resident - 8.91.
- Elk -
1. Management unit is same as for deer.
  2. No utilization data for elk.
  3. Elk herd is small, 9 killed in 1967, percent success ratio 9%. 50% kill yearling, 50% kill mature. Bull-cow kill is unknown.
  4. Very limited information on herd history.
- Sagegrouse -
1. Present in small numbers. Probably in significant numbers in past year.
  2. Seven strutting grounds have been located and documented by Colorado Game, Fish and Parks Department.

Waterfowl - On Colorado River during migration resident numbers if any unknown.

Fishery - Trout in Colorado River

Grouse, Waterfowl and Fishery situation on National Forest unknown.

#### Livestock Data

The livestock use is about equally divided between winter, spring, and fall sheep and spring and fall cattle. The allotments are relatively small with no dual use allotments.

Historically, the livestock use has been heavy and wild horse numbers were high.

Some years ago, several sheep licenses were retired as a result of land acquisition made by the Division of Game, Fish and Parks.

Presently, there is direct competition between the livestock and deer.

#### Access

See map for situation on public access.

#### Frail Lands

The lower portions of this area have been designated as Frail and is included in the Frail Lands Program.

#### Timber Management

There is a steady market for Pinon Wood on this area. Most of the wood is sold in Vail and Glenwood Springs.

## Attachment Number 1

DEER HARVEST INFORMATION - AREA 35

<u>Year</u>	<u>Kill</u>	<u>Hunters</u>	<u>Type of Season</u>
1956	1004	1489	1 D-HC 1 Doe Post
1957	1702	1886	2 D-HC
1958	1515	2165	1 D-HC
1959	1587	2133	1 D-HC
1960	1985	1983	1 D-HC
1961	1821	2001	1 D-HC
1962	1637	2541	2 D-HC
1963	3866	4101	2 D-HC 2 D Post (E ½)
1964	1466	2332	2 D-HC
1965	1367	2297	2 D-HC
1966	2118	2807	2 D-HC
1967	1529	2152	2 D-HC

Kill ratio has been about 44% Buck, 40% Doe, and 16% Fawn.

PRODUCTION UTILIZATION TRANSECTS  
FOR BIG GAME ON MOUNTAIN MANOCANY (*Cercocarpus Montanus*).

APPENDIX

Attachment #2

Year, Spring	Transect	Total Production	Production Index	Percent Utilization	Deer Days Use/Acre
1961	Dry Lake	67.5	0.4	77.0	16.0
1962		121.0	2.0	55.7	14.6
1963		154.2	2.3	37.9	16.9
1964		46.5	1.9	** 2.2	2.3
1965		101.5	2.5	62.1	12.3
1966		No Reading			
1967		149.5	2.0	25.0	10.0
1961	E. Fork Cottonwood	73.0	0.8	55.0	4.6
1962		36.0	1.2	56.9	23.1
1963		85.2	2.0	62.8	23.8
1964		7.5	0.8	40.0	27.7
1965		No Reading			
1966		*433.5	2.8	85.5	49.0
1967		270.0	2.5	56.0	6.0
1961	Alamo Creek	78.0	0.7	No Use	None
1962		101.0	3.0	63.0	11.5
1963		264.0	5.1	51.5	1.5
1964		36.0	2.6	81.9	5.4
1965		*249.5	3.5	92.9	27.7
1966		287.0	3.1	30.0	10.0
1967		372.0	2.7	57.0	16.0

NOTES: Total Production - is the total amount of current annual growth on all the twigs measured.

Production Index - is the average growth of each twig in the transect.

Percent Utilization - is the percent of the current annual growth which is used in the current winter.

Deer Days Use/Acre - is the number of deer which occupy an acre of land for one day.

\* Prior to 1965, the tags were not moved to twigs with growth on them. The individual operating the study prior to 1965 wanted to see how long it would take the twig to die with the overuse it was receiving.

\*\* Heavy snows this year kept deer out of the area.

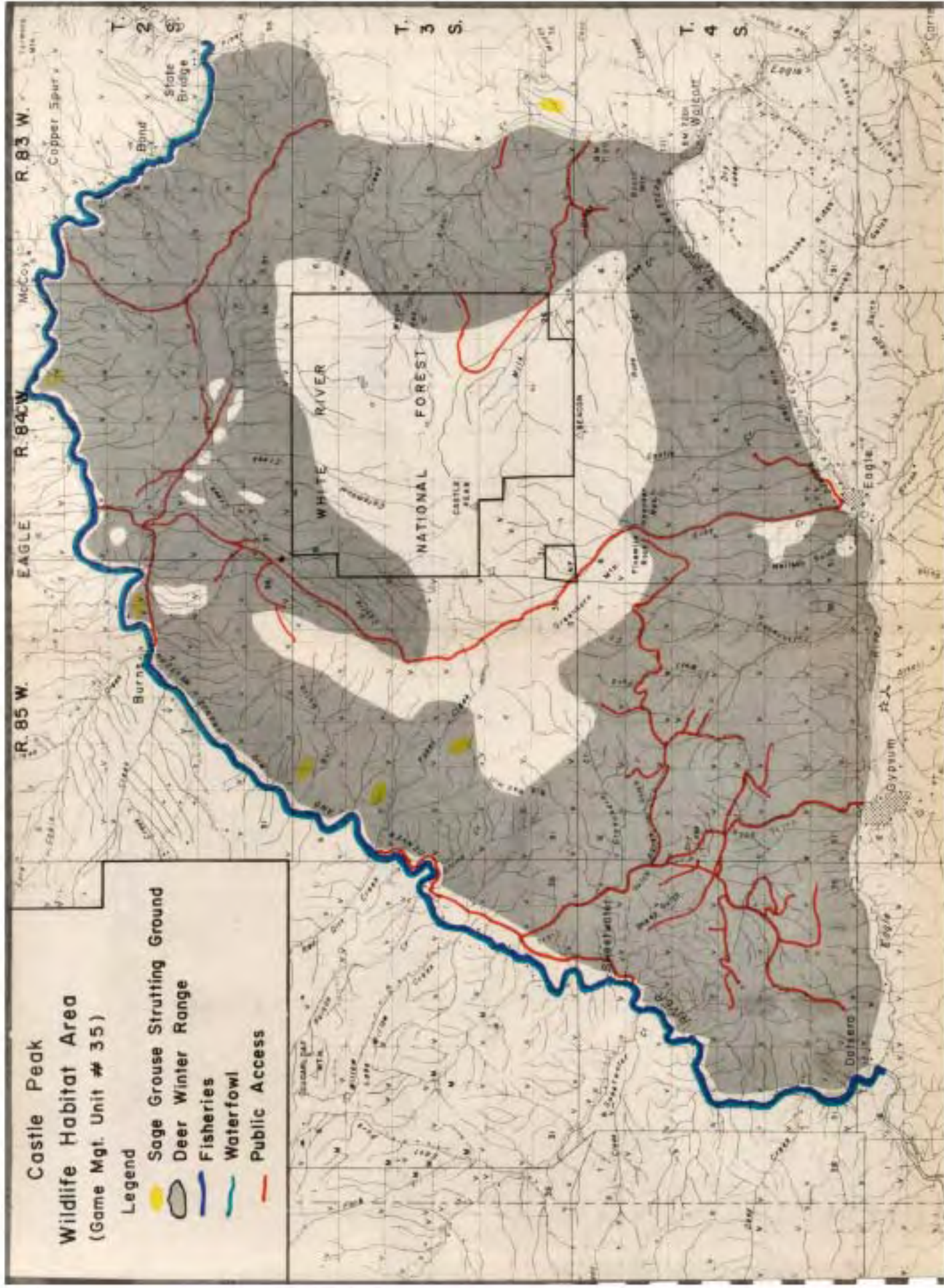
SPECIES	COMPO- SITION	FORAGE VALUE * (check one)					UTILIZA- TION AVG. PER- CENT	DEVELOPMENT STAGES						
		PER- CENT	DATE					START GROWTH	FLOWERING	PEAK OF FLOWERING	SEED RIPE	SEED DIS- SEMINATE	REGROWTH**	
			EX	GD	FR	PR								
Grasses														
Orny	15			X			4/15	5/1	5/5	Aug 8/5	10/1	6/1-8/15		
Agsm	5			X			4/15	5/5	5/20	8/10	10/1	6/1-8/15		
Agsp	15			X			4/15	5/5	5/20	8/10	10/1	6/1-8/15		
Sihy	Tr				X									
Pose	Tr				X									
Stco	Tr				X									
Kocr	5				X									
Stvi	Tr				X									
	40													
Forbs														
Eriog	Tr													
Erige	Tr													
Penst	Tr													
Anten	Tr													
Asen	Tr													
Costi	Tr													
	10													
Shrubs														
Cemo	15	X					4/15	5/10	5/20	9/1	10/15	Cercocarpus mont		
Artr	25			X			4/15	5/10	5/20	9/1	10/15	ART		
Junt	Tr				X									
Pied	Tr				X									
Chna	10				X									
Opun	Tr				X									
Putr	5	X					4/15	5/10	5/20	9/1	10/15	PT		
Chvi	5		X									Chrysothamnus vic		
Save	Tr		X									Syntherisma?		
	50													

\* Forage value based on preference of livestock or game Ex = Excellent Gd = Good Fr = Fair Pr = Poor  
 \*\* How late in spring species can be grazed and still produce grazeable leaves, twigs, or seed-producing flower stalks.

# Castle Peak Wildlife Habitat Area (Game Mgt. Unit # 35)

## Legend

- Sage Grouse Strutting Ground
- Deer Winter Range
- Fisheries
- Waterfowl
- Public Access



*File Please*

OPTIONAL FORM NO. 10  
MAY 1962 EDITION  
GSA FPMR (41 CFR) 101-11.6

UNITED STATES GOVERNMENT

# Memorandum

4112.16 (910a)

TO : Mr. A. L. Hormay, Range Conservationist  
Berkeley, California 94701

DATE: August 27, 1968

FROM : State Director, Wyoming

SUBJECT: Rest-rotation grazing training

*Plot*

We have firmed the location for our training session as Worland. We have planned on a three day session on October 7-9 with a field tour on October 10-11. In reviewing your memo of July 10 I note this is the reverse of your schedule. If you feel the field tour is better before the session, please advise. It was our thought that after the session on theory, an opportunity to review practical application would be good.

You have been forwarded copies of our invitation to the Wyoming Game and Fish Commission and the Soil Conservation Service. To date we do not have commitments on the number attending, but are expecting approximately 45 including those from our agency.

We are looking forward to seeing you in Wyoming. If you desire assistance, feel free to call on me.

*[Signature]*  
Acting

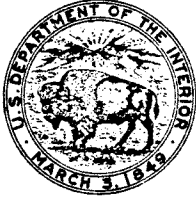


5010-108

*Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan*

Gus Hormay

IN REPLY REFER TO:



UNITED STATES  
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT  
State Office

Post Office Box No. 11505  
Salt Lake City, Utah, 84111

4112.6  
1400-300

August 27, 1968

Dear

I would like to welcome you to our "Rest-rotation" training session which will be held in Price, Utah, Wednesday September 11 through Friday September 13, beginning at 8:00 a.m. in the Science Lecture Room at the College of Eastern Utah.

Most of you either know or have heard of Gus Hormay and are probably familiar with his work on the Harvey Valley Cattle Allotment. Gus has asked that each trainee have prepared in advance of the session, information pertinent to a specific allotment since the third day of the session will be used in developing a grazing plan for your specific allotment.

A set of the forms and information that will be used are attached.

We are looking forward to a successful session and the opportunity for an exchange of ideas between our agencies.

Sincerely yours,

R. D. Nielson  
State Director

Attachment

GUESTS

(20)

*Total attendance  
about 70 ±*REST-ROTATION TRAINING  
Billings, Montana

August 27 - 29, 1968

NAME	REPRESENTING	HOME TOWN
Gene Etchart <i>Did not attend</i>	National Advisory Board Council	Glasgow, Montana
Joe Egan	Montana Dept. of Fish and Game	Bozeman, Montana
Buck Compton	Montana Dept. of Fish and Game	Miles City, Montana
Robert Burkholder	CM Russell National Wildlife Range	Lewistown, Montana
Doug West	S. Dakota Dept. of Game, Fish and Parks	Lemmon, South Dakota
Eldon Smith	Montana State Advisory Board	Bozeman, Montana
Inez Jaycox	Montana Assn. of Coop. State Grazing Districts	Glasgow, Montana
Clayton Ogle	Montana Soil Conservation Service	Bozeman, Montana
Sterle Dale	Montana Soil Conservation Service	Billings, Montana
James Wempner	Midland National Bank	Billings, Montana
John Brown	Montana State Farm Bureau Federation	Worden, Montana
Charles Schumacher	South Dakota Soil Conservation Service	Huron, South Dakota
Peter Jackson	Montana Assn. of Soil and Water Conservation Districts	Harrison, Montana
Cleon Graves	Montana Grass Conservation Commission	Roundup, Montana
Dr. Merle Meyer	University of Minnesota	St. Paul, Minnesota
Bill Mackay, Jr.	Montana Stockgrowers Association	Roscoe, Montana
Dr. Robert Eng	Montana State University	Bozeman, Montana
George Chaffee	Montana Dept. of State Lands & Investments	Helena, Montana
Frank Giersing	Montana State University	Bozeman, Montana
Ed Schlatterer	Montana Dept. of Fish & Game	Lewistown, Mont.

GRAZING SYSTEM CASE STUDY ASSIGNMENTS

Rest-Rotation Training  
Billings, Montana

August 27 - 29, 1968

BLM DISTRICT	ALLOTMENT NAME	TRAINEE(S)	(48)
Malta	John Robinson	Wayne Zinne Lee Holden Darwin Snell Jack Jones Ron Kalcso	5
Malta	Hinsdale Livestock Company	Richard DeVries Hal Vosen Tom Thompson Tom Enright	4
Malta	Cottonwood Association	Lowell Brown <del>Harry Coe</del> John Barnes Lee Chamberlain	3
	<i>Mahoney</i> _____		
Miles City	Stellar Creek	Wilton Peterson Norman Bower Elliot Lowe	3
Miles City	Devlin	Robert Hium Dick Ellison	2
Miles City	Cedar Creek	Dennis Jones	1
Miles City	Sam Tauk	Loyal Haun Jerry Skroch	2
Miles City	Turberville	Clyde Brewer Jack Schield	2
Miles City	North Fort Meade	Joe Wichman	1
Miles City	South Fort Meade	Hyrum Wilson	1
Billings	Mystic	Bruce Daughton	1
Billings	Pryor Mountain Wild Horse	Duane Sonnenberg James Hall	2

BLM DISTRICT	ALLOTMENT NAME	TRAINEE(S)	
Billings	Gyp Spring	Duane Whitmer	1
Billings	South Pompey	Birrell Hirschi	1
Dillon	Price Creek	Hans Larsen Oscar Anderson	2
Dillon	Nez Perce	Wallace Elliot Paul Sladish	2
Lewistown	Jackson	Roland Jorgensen Larry Eichhorn	2
Lewistown	Antelope Common	John Buck Sid Grover	2
Lewistown	Benson Ranch	William Cutler Gene Jonart	2
Lewistown	Norskog	John Nesselhuf	1
Lewistown	Woodhawk Common	Ross Sharp George Nelson	2
Missoula	McElwain Creek	Dick Betts Don Lotvedt	2
Missoula	Bob Neal	John Lovell Larry Newman	2

*Bill Mackay* — { *Dick Cosgritte* 2  
*Bill Mackay Jr* 2  
21

*State Office*  
*Jim Linne*  
*Rex Cleary*  
*Gerry Huhner*

3