STATUS OF REST-ROTATION GRAZING ALLOTMENTS

Supplemental information on each rest-rotation allotment:

1. Is the rest-rotation system in operation? Yes X No _____.

2. Date of start of first grazing season May 1, 1966 (Actual date for allotments under management. Planned date for allotments not yet in operation.)

3. Is the form of management in effect or to be applied the same as the one reviewed or suggested by Mr. Hromay? Yes X No ______. If not, supply the following information:
   a. Diagram of grazing formula in use or planned.
   b. Map showing pasture layout.
   c. Map diagrams showing movement of livestock between pastures for one grazing cycle.

In cases where rest-rotation grazing has been in effect for one year or more, please comment briefly on the prospects, merits or deficiencies of the system. It is a little too early to fully judge the system, but your comments will be helpful in pointing up future grazing training programs.

It appears the system is working out very satisfactorily. Actual use and utilization studies have been completed on the 1966 grazing season and are very favorable. The cooperator (Little Land and Livestock Co.) is well pleased with the system and the first years results. We feel that the system will give favorable results during the planned initial cycle. No apparent deficiency reveals itself to us during the first year of grazing.

Carroll H. Flett
Area Manager

Enc. 1
Grassland Allotment Analysis File

January 27, 1969

Range Manager, 6-6

Adjustment in type acreage and grazing capacity figures of 1963 due to range improvements

<table>
<thead>
<tr>
<th>Type</th>
<th>Acres</th>
<th>Ac. / 1000</th>
<th>Util.</th>
</tr>
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<tr>
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<td>12.5</td>
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</tr>
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<td>15</td>
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<td>1536</td>
</tr>
<tr>
<td>6</td>
<td>14</td>
<td>11.3</td>
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</tr>
<tr>
<td>7</td>
<td>13</td>
<td>3.0</td>
<td>1336</td>
</tr>
</tbody>
</table>

| 1     | 1500 Acres sprayed 0.5  |
| 2     | 462 Acres plowed  & seeded 0.4 |
| 3     | 1500 Acres sprayed 0.5  |

Total: 3560 Total acres

Total excludes wet. lands.

Carroll H. Lowrie

Mr. Turner, we have included this summary for your information. These changes have been brought about by aerial spraying on the allotment since our working of your farms. Our treatments and formula reflect this increase and were worked up with the above figures.
REST-ROTATION GRAZING PLAN
&
AGREEMENT

Allotment: Grounds Individual                Date: February 3, 1966

Unit: Godiva Unit (Peck Mesa Resource Conservation Area) C-1

This agreement is entered into between Little Land & Livestock, and the
Bureau of Land Management to effect an allotment grazing plan under the
Rest-Rotation Grazing System.

SYSTEM:

Experimental research has disclosed that periodic rest from grazing appears
to be the key to improvement of ranges. The system to be employed here,
Rest-Rotation Grazing, attempts to give the range the amount of rest needed
to satisfy the growth requirements of the desirable plants. The system is
set up to allow two seasons of rest for each pasture during the cycle. This
is deemed necessary on low precipitation ranges for grass seedling establish-
ment.

APPLICATION:

The system is set up so that during the cycle each pasture will be rested
at two critical times during the growing season for two purposes:

(1) To insure development and ripening of seeds
(2) To insure establishment of seedlings

The Rest-Rotation system of grazing consists of four basic steps; however,
depending on each individual range, all four steps may or may not be included
in the system. The four basic steps are: (1) Graze the range for maximum
livestock production; (2) Rest the range until plant vigor is restored;
(3) Rest the range until seed ripens, then graze for maximum livestock
production and seed trampling, and (4) Rest the range until production becomes
firmly established.

Due to the individual condition, size and topography of this allotment, only
three steps will be employed. The present condition of the key species in
this allotment is very good; therefore, step #2 is, for the present time,
not being incorporated in the system.

SEQUENCE OF TREATMENT:

The first step in the pattern is generally season long use. The next step is
to rest the area until seed ripens then make grazing use during the remainder
of the season. The final step is to insure seedling establishment. In this
system, it is allowed that 2 years will be necessary; thereby completing the cycle.

The following is a graphic breakdown of the system to be used on the allotment:

### BASIC THREE UNIT DIAGRAM

<table>
<thead>
<tr>
<th>Pasture</th>
<th>GRAZE</th>
<th>NON-USE</th>
<th>GRAZE</th>
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<tr>
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<tr>
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</tr>
<tr>
<td>MAY.</td>
<td>FEB.</td>
<td>MCH.</td>
<td>JULY</td>
</tr>
<tr>
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<td>FEB.</td>
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</tr>
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<tr>
<td>OCT.</td>
<td>FEB.</td>
<td>MCH.</td>
<td>DEC.</td>
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Key Species:  
Start Growth → Flowering → Seed Ripe

### THREE UNIT DESIGN:

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEQUENCE</th>
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<tbody>
<tr>
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</tr>
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</tr>
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<td></td>
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</tr>
<tr>
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</tr>
<tr>
<td>2</td>
<td>B A C</td>
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<tr>
<td>5</td>
<td>B C A</td>
</tr>
<tr>
<td>6</td>
<td>A C B</td>
</tr>
</tbody>
</table>

**TREATMENT:**

A = Graze for maximum livestock production
B = Rest until seed ripens, then graze for maximum livestock production & seed trampling.
C = Rest for seedling establishment.

UNIT:  
1 = East pasture
2 = Middle pasture
3 = South pasture
ROTATION OF LIVESTOCK:

The cooperator (Little Land & Livestock) herein agrees to cooperate with the Bureau in the necessary rotation of livestock from pasture to pasture each year according to the schedule set up in the foregoing SEQUENCE OF TREATMENT. All movement of livestock shall be the responsibility of the cooperator. It is further agreed by the cooperator that he will:

(1) Cooperate in keeping his livestock as evenly distributed as possible over each pasture being used. This may require but not be limited to:

(a) Cooperate with the Bureau in arranging a salt distribution plan.

(b) Supply additional water, by hauling if necessary, to areas which are not being used during the cycle because of lack of, or distance to water. The Bureau agrees to cooperate in development of additional water where grazing patterns show a need.

(c) Riding for even distribution and movement of bulls.

RECORDS:

The cooperator agrees to keep accurate and up to date, year by year, records on use made during the season. This information will be kept on forms supplied by the Bureau, and will include but not be limited to data on numbers, dates, and time, class of stock (i.e., cows, calves, bulls, etc.) and numbers of each. These records shall be transmitted to the Bureau at the end of the grazing season.

The Bureau shall keep the following records and any additional information which may be pertinent or necessary:

(1) Carrying capacity determinations
(2) Photo trend records
(3) Weather information
(4) Utilization records & photographs & determinations as to point of utilization reached
(5) Summaries on allotment
(6) Summaries on livestock use, all on a year to year basis.

LICENSING:

The cooperator shall make annual application according to the existing regulations based on the plan herein. The licensed use may be adjusted during the grazing season either upward or downward or as to dates and pasture
usage if it becomes necessary to meet the requirements set forth in this plan to obtain the required results per pasture. If changes are necessary they will be worked out with the cooperator in such a manner as to not cause him unnecessary hardship.

It is further agreed that the allowance of use on this allotment shall be the recognized base property qualifications of 987 AUMs. Any use allowed over this amount on a year to year basis shall be issued as temporary. Temporary use shall be allowed based on the recommendation of the Resource Area Manager, and shall be continued as such until sufficient information has been obtained from the study to substantiate any increase in base property qualifications.

MULTIPLE USE:

Range Management practices employed in this allotment will be with the objective of obtaining high level sustained yields of forage for use by livestock and wildlife in balance with conservation needs, and other multiple uses of the land.

This agreement shall be subject to all rules and regulations set forth in the Federal Range Code for grazing districts. Since it is imperative that the system planned herein be carried through one fall cycle (6 years), it is agreed that if for any reason the cooperator is unable to supply cattle to fulfill the needs of the system, and/or to obtain the required results, then the Bureau shall make arrangements for the necessary stock.

This agreement shall be binding upon the parties hereto, their heirs, administrators, transferees, successors in interest.

Plat attached

Witnessed & approved by:

Chester W. Grounds

Witnessed & prepared by:

Resource Area Agr.

Recommended for Approval by:

Chairman, Advisory Bd.

APPROVED BY:

District Manager

Parties hereto (Cooperator)

By: [Signature] Date: 3/1/66

Little Land & Lyst.

Date: 3/1/66
PROJECT EXPENSES

GROUND PASTURE

REST ROTATION GRAZING SYSTEM

C6-R-130 YAMPA PROTECTION FENCES

(Pasture Division Fences)
3.8 miles -- Bureau stood entire cost
$3,087.80 (SM)

C6-R-62 WEST GODIVA SAGEBRUSH SPRAYING

550 acres $1,980.13 (SM)
Started 5/17/63 Comp. 5/17/63
Aerial appl. 2% 2.4-D/ac. to 3 gal. Diesel oil
TC/A $3.48

C6-R-105 WEST GODIVA BRUSH SPRAY #2

1910 acres $6,506.61 (SM)
Started 5/26/64 Comp. 5/31/64
Aerial appl. 2% 2.4-D/ac. to 3 gal. 1/2 Diesel fuel
Chem. & appl. cost $2.85 per acre
TC/Ac $3.41

C6-340 MESA DIVISION FENCE

5-3/8 miles $2,160.24 (RI) Coop. $3340.00 Total $5500.24
Started 4/13/59 Comp. 6/26/59
(Allotment Boundary Fence)

C6-R-97 GODIVA SEEDING #2

507 acres $3,214.38 (SM & RI)
Started 11/9/63 Comp. 5/18/64
5.7%/ac. Acrs. ($1.0k/ac.) $5.3k/ac. Total cost

C6-R-90 W. GODIVA RETENTION DAM

1 each $1180.00 (SM)
4,980 cu. yds.
Started 11/12/63 comp. 11/16/63
500 ac. drainage capacity
10.0 ac. ft. capacity
Dam: crest length 20 ft., top width 12 ft., spillway 5 ft. capacity
at 2.3 ft. depth = 297 cfs

June 6, 1966
C. H. Leavitt
Area Manager
Cl-R-207 UPPER BENCH WELL (Not complete)

1 waterwell $4177.74 (RI) to date
Started 12/7/65 comp. 12/22/65
Drilled and cased 527 ft. w/7" casing
Yield 11 gal. per min.
Electric submersible pump & tanks est. cost $1200.00

Cl-R-208 LOWER BENCH WELL (Not complete)

1 waterwell $3,024.67 (SEM) to date
Started 11/23/65 comp. 12/4/65
Drilled and cased 375 ft. w/7" casing
Yield 9 gal. per min.
Electric submersible pump & tanks - Est. cost $1200.00

1 - Stockwater Dam $250.00 Cooperator cost
5 miles Fence $5000.00 Cooperator cost

Costs incurred to date:

(1) from start of Indl. Allot. $25,331.57 B.L.M.
TOTAL $36,331.57 Cooperator $10,950.00

(2) costs incurred by Rest-Rotation System:

<table>
<thead>
<tr>
<th></th>
<th>B.L.M.</th>
<th>Cooperator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cl-R-207</td>
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<td>3,400.00</td>
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<td>$10,250.21</td>
<td>Cooperator Expense (part est.)</td>
</tr>
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<td></td>
<td>$13,690.21</td>
<td>Total</td>
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</table>

Carroll M. Levitt