

MANAGEMENT PLAN  
LONE RANCH C&H ALLOTMENT  
REPUBLIC RANGER DISTRICT  
COLVILLE NATIONAL FOREST  
REGION SIX

Prepared By: *Tom Cluskey* Date *Aug 27, 1976*

Reviewed By: *Kenneth H. Sumbach* Date *Oct 15-76*  
Permittee

Reviewed By: *Peter Singer* Date *Nov. 3 76*  
Permittee

Recommended By: *Jack Francis* Date *8-31-76*  
District Ranger

Recommended By: *Raymond Evans* Date *9/10/76*  
Range Staff

Approved By: *Robert B. Tervil* Date *9/14/76*  
Forest Supervisor



(WEST HALF)

E.

R. 34 E.

R. 35 E.

BRITISH COLUMBIA

GRAND FORKS



VICINITY MAP  
 LONE RANCH C&H ALLOTMENT  
 REPUBLIC RANGER DISTRICT  
 COLVILLE NATIONAL FOREST  
 REGION SIX

Scale 1/2 inch = 1 Mile

August 1976

JBMcCluskey



## I. Management Objectives

- A. Implement range management which avoids unacceptable resource damage.
- B. Optimize usable forage production and utilization in coordination with other resources.
- C. Maximize permittee participation and responsibility in planning and executing the allotment management plan.

## II. Management Requirements

- A. Establish a rotational grazing system.
- B. Adhere to the livestock management requirements.
- C. Implement and maintain needed structural and non-structural range improvements.
- D. Monitor and evaluate requirements towards meeting management objectives.

## III. Allowable Use Criteria

- A. Unacceptable resource damage is defined as:

1. Basic Resource Damage due to livestock grazing is soil loss, soil displacement, or soil compaction that impairs productivity of soil and water below the level restored naturally during the grazing cycle.

### Definitions of terms used above:

- a. Soil Loss - Soil which has entered the stream channel, whether permanent or intermittent or permanently removed by wind.
  - b. Soil Displacement - Soil which has been redistributed without entering the stream channel or being redistributed by the wind.
  - c. Soil Compaction. Is an increase in the bulk density which extends beyond one grazing cycle. (Vertical displacement).
  - d. Examples of acceptable areas where damage limits may not apply i.e.:
    1. Water developments
    2. Trails
    3. Corrals
  2. Damage to Resources Other Than the Basic Soil Resource occurring when resource management objectives are not met. For the purpose of this definition, damage to vegetation is limited to too much or unplanned use.
- B. Range readiness based on the soil conditions and growth stage of key plants. See Section IX, Evaluation supplementary.
  - C. Optimum use (% utilization), deferment or rest based on key plant physiology requirements for forage productions, vigor, regrowth, and reproduction. See Section IX, Evaluation supplementary.
  - D. Domestic livestock grazing is limited to cattle under this plan.

#### IV. Allotment: Area and Estimated Capacity

The gross allotment area of the Lone Ranch Allotment is 18,295 acres. Currently 54% or 10,005 acres is classed as suitable of which about 41% is considered primary range. See Table 1 and Appendix I for more information.

Table 1: Summary of Allotment Lands.

| <u>Ownership</u>              | <u>Gross Acres</u> | <u>Suitable Acres</u> | <u>Indicated CM</u> |
|-------------------------------|--------------------|-----------------------|---------------------|
| National Forest D4            | 13,280             | 9,130                 | 1,422               |
| National Forest D2            | 5,015              | 765                   | 103                 |
| All National Forest Land      | 18,295             | 9,895                 | 1,525               |
| <u>Non-affiliated Private</u> | 110                | 110                   | 17                  |
| All                           | 18,405             | 10,005                | 1,542               |

Non-affiliated lands will not be included for carrying capacity or for stocking and permit recommendations.

Animal unit months or cow months (CM) are based on up to 50% utilization of acres of potential forage production (PFP) and the daily dry weight forage requirement (34 lbs.) for a 1,000 pound cow with a 350 pound calf at side.

Classes of potential forage production acres required per animal unit month are shown in Table 2.

Table 2: Class/Potential Forage Production/Acres per CM

| <u>Class</u> | <u>PFP Pounds Per Acre</u> | <u>Acres per CM</u> |
|--------------|----------------------------|---------------------|
| Good         | 500 +                      | 4-                  |
| Fair         | 300-500                    | 4-8                 |
| Low          | Less than 300              | 8+                  |

The indicated carrying capacity is considered only as a "benchmark", actual carrying capacity will be less as it is virtually impossible to attain 100% efficiency in properly utilizing all the suitable acres available. Also the palatability and nutritive deterioration of the principle grass (Pinegrass) is a factor.

Actual estimated capacity will have to be derived from systematically monitoring distribution and utilization.

It is estimated that about 77% efficiency or the ability of the grazing system and permittees is needed to sustain present permitted numbers. (77% X 1525 CM = 1174 CM).

V. Management System, Recommended Stocking and Permits

The grazing system prescribed for this plan is a modified 3 unit (one unit supplemented with an auxillary sub-unit), 3 year cycle deferred rotation system of a 153 day annual grazing period, June 1st to October 31st.

Table 3: Deferred Rotation System

| Cycle<br>Year | Grazing Periods and Unit Sequence |                   |                    |
|---------------|-----------------------------------|-------------------|--------------------|
|               | <u>Early Summer</u>               | <u>Mid-Summer</u> | <u>Late Summer</u> |
| First         | 1 & 1A                            | 3                 | 2                  |
| Second        | 1 & 1A                            | 2                 | 3                  |
| Third         | 2                                 | 3                 | 1 & 1A             |

Repeat Cycle

All cattle are to be in the same unit at the same time with the modification that 75 cattle will be placed in sub-unit 1A (Manley Creek) for half of the grazing time of Unit 1. See Table 4 below.

A summary of units and planned use are shown in Table 4. (See Appendix I for more complete compilation).

Table 4: Summary of Units and Planned Use

| <u>Item</u>                 | <u>Unit 1</u> | <u>Sub-Unit A</u> | <u>Unit 2</u> | <u>Unit 3</u> | <u>Totals</u> |
|-----------------------------|---------------|-------------------|---------------|---------------|---------------|
| Gross Acres D4              | 3,430         | -                 | 4,145         | 5,705         | 13,280        |
| Gross Acres D2              | -             | 5,015             | -             | -             | 5,015         |
| Suitable Acres Indicated CM | 2,085         | 765               | 3,655         | 3,390         | 9,895         |
|                             | 316           | 103               | 593           | 513           | 1,525         |
| Planned Cattle              | 231/156       | (75)              | 231           | 231           | 231           |
| Planned Days                | 20/20         | (20)              | 60            | 53            | 153           |
| Planned CM                  | 154/104       | (50)              | 462           | 408           | 1,178         |
| Suitable a./CM              | 8.08          | (15.3)            | 7.9           | 8.30          | 8.39          |

The summary of planned use is tentative and subject to adjustment as needed by the Forest Officer in charge.



Recommended stocking is based and contingent on a deferred rotation system being implemented and operational.

Table 5: Recommended Stocking and Permits

| <u>Permittee</u><br><u>Name</u> | <u>Number of Cattle by Permit</u> |             |               |                  | <u>Total</u><br><u>No.'s</u> | <u>Grazing</u><br><u>Season</u> | <u>AUM</u><br><u>(CM)</u> |
|---------------------------------|-----------------------------------|-------------|---------------|------------------|------------------------------|---------------------------------|---------------------------|
|                                 | <u>Term</u>                       | <u>Temp</u> | <u>On/Off</u> | <u>Pvt. Land</u> |                              |                                 |                           |
| Grumbach & Son                  | 180                               | -           | -             | -                | 180                          | 6/1-10/31                       | 918                       |
| <u>Peter Singer</u> 1/          | <u>10</u>                         | <u>41</u>   | <u>-</u>      | <u>-</u>         | <u>51</u>                    | <u>6/1-10/31</u>                | <u>260</u>                |
| All                             | 190                               | 41          | -             | -                | 231                          | 6/1-10/31                       | 1178                      |

1/ Peter Singer permit status subject to change by 1977.

## VI. Livestock Management Requirements

- A. All permitted cattle must bear a State of Washington registered brand and be one of brands declared on the permittee's grazing application.
- B. All permitted cattle must bear a Forest Service approved ear tag and/or accounted for as per Forest Service requirements. See attached Appendix III.
- C. The number and breed of bulls placed on the Allotment range must conform the appropriate association rules and/or state statutes governing such matters.
- D. It is the responsibility of the permittees to effect livestock movements and distribution in accordance with the prescribed rotation grazing system, annual plan of use, stock salting system and/or by instructions of the Forest Office in charge. The success of the systems depends on the effort and efficiency of the permittees.
- E. Stock salt shall not be placed on or in the immediate proximity of roads, stock watering places or other areas of cattle concentrations. The "Drop" Salting system will be used.

THE "DROP" SALTING SYSTEM: This system puts the salting phase of range management in the hands of the user of the range. The system is flexible to fit the aspects of the individual range and the changing of the seasons. The name "drop" was given to it simply because the salt is dropped or placed in different areas depending on range management needs.

Salt should be placed where there is adequate forage. As that area becomes properly utilized, the salt should be moved, drawing the livestock into the lesser utilized areas. Salt should not be placed on water courses, watering places, main roads and other areas of other concentrated uses.

The range should be salted in amounts in proportion to the number of stock or at least one block for each ten head of cattle.

The first distribution should be made prior to the grazing season or at the time of entering on the range.

- F. Construction and maintenance of Range Improvements as per following tables will be carried out in a timely manner for maximum effectiveness. Tables of existing and proposed range improvement construction and maintenance programs are to be revised and/or superceded as status, needs or changes warrant.

Table 6  
Lone Ranch Allotment

VII RANGE DEVELOPMENT PROGRAM  
Existing Range Improvements

6/76

| IMPROVEMENT |        |  | CONSTRUCTION RESPONSIBILITY |           |           |        | FACILITY  |                       |       |
|-------------|--------|--|-----------------------------|-----------|-----------|--------|---|-----------------------|-------|
| Date        | Number | Name and Location                            | Material                    | Equip.    | Labor     | Maint. | Type  | Capacity-<br>Quantity | Cost  |
| 1950        |        | Cougar Camp Spring<br>SE Sec. 28, T40N, R35E | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200 gal.              | \$600 |
| 1950        |        | Frog Spring<br>SE Sec. 31, T40N, R35E        | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200 gal.              | 500   |
| 1950        |        | Nelson Spring<br>NE Sec. 31, T40N, R35E      | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 150                   | 500   |
| 1950        |        | Eder Spring<br>NW Sec. 30, T40N, R35E        | F.S.                        | F.S.      | F.S.      |        | Metal trough<br>(redeveloped 1975)              | 600                   | 500   |
| 1950        |        | Togo Spring<br>SE Sec. 4, T40N, R35E         | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 500   |
| 1950        |        | Gulch Spring<br>NE Sec. 18, T40N, R35E       | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 500   |
| 1950        |        | Doe Spring<br>SW Sec. 17, T40N, R35E         | F.S.                        | F.S.      | F.S.      |        | Metal trough<br>(redeveloped 1975 by permittee) | 600                   | 500   |
| 1950        |        | Buck Spring<br>NW Sec. 20, T40N, R35E        | F.S.                        | F.S.      | F.S.      |        | Crib  |                       | 400   |
| 1950        |        | Four Man Spring<br>SE Sec. 31, T40N, R33E    | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 500   |
| 1960        |        | Tie Camp Spring<br>NE Sec. 12, T40N, R34E    | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 600                   | 500   |
| 1960        |        | Wassel Spring<br>SW Sec. 11, T40N, R34E      | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 600                   | 500   |
| 1960        |        | Manley Spring<br>SE Sec. 8, T40N, R35E       | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 200                   | 500   |
| 1960        |        | Midway Spring<br>NW Sec. 7, T40N, R35E       | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 600                   | 500   |
| 1960        |        | North Creek Spring<br>NW Sec. 12, T40N, R34E | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 600   |
| 1960        |        | James Spring<br>NE Sec. 13, T40N, R34E       | F.S.                        | F.S.      | F.S.      |        | Steel reconstruction<br>1976                    | 300                   | 500   |
| 1966        |        | Noonday Spring<br>NE Sec. 9, T40N, R35E      | F.S.                        | F.S.      | F.S.      |        | Steel trough                                    | 600                   | 500   |
| 1970        |        | Lone Ranch Spring<br>NW Sec. 18, T40N, R35E  | F.S.                        | Permittee | Permittee |        | Steel trough                                    | 600                   | 800   |



| Date | Number | IMPROVEMENT<br>Name and Location                               | CONSTRUCTION RESPONSIBILITY  |            |            |            | FACILITY<br>Type                                | Capacity-<br>Quantity | Cost  |
|------|--------|--|--|------------|------------|------------|---|-----------------------|-------|
|      |        |  | Material   | Equip.     | Labor      | Maint.     |   |                       |       |
| 1940 |        | Lone Ranch Corral<br>SE Sec. 13, T40N, R34E                    | Permittees   | Permittees | Permittees | Permittees | Native material poles                           |                       | \$300 |
| 1950 |        | Lone Ranch Divide Fence<br>SW Sec. 13, T40N, R34E              | F.S.   | F.S.       | F.S.       | 1/         | Drift fence                                     | 1.00 mi.              | 100   |
| 1960 |        | Green Mtn. Saddle Fence<br>NE Sec. 33, T40N, R35E              | F.S.   | F.S.       | F.S.       | 1/         | Drift fence                                     | .60 mi.               | 60    |
| 1960 |        | S. Fork Lone Ranch<br>Cattleguard<br>NW Sec. 24, T40N, R35E    | F.S.   | F.S.       | F.S.       | F.S.       | 4 wire steel post<br>Steel deck, timber<br>base | 16'                   | 700   |
| 1965 |        | Green Mtn. Saddle<br>Cattleguard<br>SE Sec. 33, T40N, R35E     | F.S.   | F.S.       | F.S.       | F.S.       | Steel deck, timber<br>base                      | 16'                   | 700   |
| 1969 |        | Lone Ranch Saddle<br>Cattleguard<br>NE Sec. 9, T40N, R34E      | F.S.   | F.S.       | F.S.       | F.S.       | Steel deck, timber                              | 16'                   | 700   |
| 1971 |        | N. Fork Lone Ranch<br>Cattleguard #1<br>SW Sec. 17, T40N, R34E | F.S.   | F.S.       | F.S.       | F.S.       | Steel Deck, timber                              | 16'                   | 700   |
| 1971 |        | N. Fork Lone Ranch<br>Cattleguard #2<br>SE Sec. 13, T40N, R34E | F.S.   | F.S.       | F.S.       | F.S.       | Steel deck, timber                              | 16'                   | 700   |
|      |        | S Fk. Lone Ranch Saddle<br>Fence<br>Sec. 9 T39N, R35E          | F.S.   | F.S.       | F.S.       | Permittee  | 4 wire steel post                               | 1.00 mi.              | 1000  |
|      |        | S. Fk. Lone Ranch Saddle<br>Cattleguard<br>S. 9, 39/35         | F.S.   | F.S.       | F.S.       | F.S.       | Steel 8x14                                      | H20 load              | 700   |
|      |        | 1/   | Permittee construction and maintenance obligation:<br>Grumbach and Son 78%<br>Peter Singer 22% |            |            |            |   |                       |       |
|      |        |  | To be assigned by annual plan of use in lieu of specific standing assignment.                  |            |            |            |   |                       |       |

Table 7

VII RANGE DEVELOPMENT PROGRAM  
Proposed Improvements

Aug. 1976

| Date | IMPROVEMENT<br>Number Name and Location                     | CONSTRUCTION RESPONSIBILITY |                     |                     |           | Type   | FACILITY              |        |
|------|---|-----------------------------|---------------------|---------------------|-----------|--|-----------------------|--------|
|      |   | Material                    | Equip.              | Labor               | Maint.    |  | Capacity-<br>Quantity | Cost   |
| 1976 | Lone Ranch Divide Fence<br>(Extension)                      | F.S.                        | F.S./<br>Permittees | F.S./<br>Permittees | <u>1/</u> | 4 Wire, Steel Post                                   | 2 mi.                 | \$4400 |
|      | Lone Ranch Divide Fence<br>Cattleguard                      | F.S.                        | F.S.                | F.S.                | F.S.      | Steel 8x14'  | H20<br>Load           | 1200   |
|      | Togo Mtn/South Fork<br>Fence                                | F.S.                        | Permittees          | Permittees          | <u>1/</u> | 4 Wire, Steel Post                                   | 3 mi.                 | 6600   |
|      | Togo Mtn/South Fork<br>Fence Cattleguard                    | F.S.                        | F.S.                | F.S.                | F.S.      | Steel 8x14'  | H20<br>Load           | 1200   |
|      | Sec. 30, T40N, R35E<br>F.D. RD. NO. 1586                    |                             |                     |                     |           |  |                       |        |
|      | Rocky Mtn Ridge<br>Cattleguard                              | (F.S.)                      | F.S.                | F.S.                | F.S.)     | Steel 8x14'  | H20<br>Load           | (1200) |
|      | Sec. 6, T39N, R35E<br>F.D. RD. No. 1588                     |                             |                     |                     |           |  |                       |        |
|      | Rocky Mtn Ridge<br>Fence 1st Phase                          | F.S.                        | F.S.                | F.S.                | <u>1/</u> | 4 Wire, Steel Post                                   | 3 mi.                 | 6600   |
|      | Sec. 6, 7, & 8<br>T39N, R35E<br>(Unsurveyed)                |                             |                     |                     |           |  |                       |        |
|      | 2nd Phase   |                             |                     |                     |           |  |                       |        |
|      | Sec. 20 & 36, T40N, R34E                                    | F.S.                        | F.S.                | F.S.                | <u>1/</u> | 4 Wire, Steel Post                                   | 3 mi.                 | 6600   |
|      | U. S./Canadian Line<br>Fence at Manley Cr.                  | F.S.                        | Permittees          | Permittees          | <u>1/</u> | 4 Wire, Steel Post                                   | 2.5 mi.               | 5500   |
|      | W 1/2 Sec 3, S. 4&5   | (1 to 2.5                   | mi. as needed)      |                     |           |  |                       |        |
|      | <u>Reconstruction</u>                                       |                             |                     |                     |           |  |                       |        |
|      | 6 Stockwater Dev.   | F.S.                        | Permittees          | Permittees          | <u>1/</u> | Steel Trough 6 @ \$300                               | 600 gal               | 1800   |
|      | 4 Stockwater Dev.   | F.S.                        | Permittees          | Permittees          | <u>1/</u> | Steel Trough 4 @ \$675                               | 600 gal               | 2700   |
|      |   |                             |                     |                     |           | Supply Line<br>Collection System<br>Protection Fence |                       |        |
|      | Revegetation and/or noxious weed projects are not included! |                             |                     |                     |           |  |                       |        |



Table 6  
Lone Ranch Allotment

VII RANGE DEVELOPMENT PROGRAM  
Existing Range Improvement

6/76

| IMPROVEMENT |        |  | CONSTRUCTION RESPONSIBILITY |           |           |        | FACILITY  |                       |       |
|-------------|--------|--|-----------------------------|-----------|-----------|--------|---|-----------------------|-------|
| Date        | Number | Name and Location                            | Material                    | Equip.    | Labor     | Maint. | Type  | Capacity-<br>Quantity | Cost  |
| 1950        |        | Cougar Camp Spring<br>SE Sec. 28, T40N, R35E | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200 gal.              | \$600 |
| 1950        |        | Frog Spring<br>SE Sec. 31, T40N, R35E        | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200 gal.              | 500   |
| 1950        |        | Nelson Spring<br>NE Sec. 31, T40N, R35E      | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 150                   | 500   |
| 1950        |        | Eder Spring<br>NW Sec. 30, T40N, R35E        | F.S.                        | F.S.      | F.S.      |        | Metal trough<br>(redeveloped 1975)              | 600                   | 500   |
| 1950        |        | Togo Spring<br>SE Sec. 4, T40N, R35E         | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   |       |
| 1950        |        | Gulch Spring<br>NE Sec. 18, T40N, R35E       | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 500   |
| 1950        |        | Doe Spring<br>SW Sec. 17, T40N, R35E         | F.S.                        | F.S.      | F.S.      |        | Metal trough<br>(redeveloped 1975 by permittee) | 600                   | 500   |
| 1950        |        | Buck Spring<br>NW Sec. 20, T40N, R35E        | F.S.                        | F.S.      | F.S.      |        | Crib  |                       | 400   |
| 1950        |        | Four Man Spring<br>SE Sec. 31, T40N, R33E    | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 500   |
| 1960        |        | Tie Camp Spring<br>NE Sec. 12, T40N, R34E    | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 600                   | 500   |
| 1960        |        | Wassel Spring<br>NW Sec. 12, T40N, R34E      | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 600                   | 500   |
| 1960        |        | Manley Spring<br>SE Sec. 8, T40N, R35E       | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 200                   | 500   |
| 1960        |        | Midway Spring<br>NW Sec. 7, T40N, R35E       | F.S.                        | F.S.      | F.S.      |        | Metal trough                                    | 600                   |       |
| 1960        |        | North Creek Spring<br>NW Sec. 12, T40N, R34E | F.S.                        | F.S.      | F.S.      |        | Plank trough                                    | 200                   | 600   |
| 1960        |        | James Spring<br>NE Sec. 13, T40N, R34E       | F.S.                        | F.S.      | F.S.      |        | Steel reconstruction<br>1976                    | 300                   | 500   |
| 1966        |        | Noonday Spring<br>NE Sec. 9, T40N, R35E      | F.S.                        | F.S.      | F.S.      |        | Steel trough                                    | 600                   | 500   |
| 1970        |        | Lone Ranch Spring<br>NW Sec. 18, T40N, R35E  | F.S.                        | Permittee | Permittee |        | Steel trough                                    | 600                   | 800   |

| Date | Number | IMPROVEMENT<br>Name and Location  | CONSTRUCTION RESPONSIBILITY |            |            |            | FACILITY<br>Type                                | Capacity-<br>Quantity | Cost  |
|------|--------|---|-----------------------------|------------|------------|------------|---|-----------------------|-------|
|      |        |   | Material                    | Equip.     | Labor      | Maint.     |   |                       |       |
| 1940 |        | Lone Ranch Corral<br>SE Sec. 13, T40N, R34E   | Permittees                  | Permittees | Permittees | Permittees | Native material poles                           |                       | \$300 |
| 1950 |        | Lone Ranch Divide Fence<br>SW Sec. 13, T40N, R34E   | F.S.                        | F.S.       | F.S.       | 1/         | Drift fence                                     | 1.00 mi.              | 1000  |
| 1960 |        | Green Mtn. Saddle Fence<br>NE Sec. 33, T40N, R35E   | F.S.                        | F.S.       | F.S.       | 1/         | Drift fence                                     | .60 mi.               | 600   |
| 1960 |        | S. Fork Lone Ranch<br>Cattleguard<br>NW Sec. 24, T40N, R35E   | F.S.                        | F.S.       | F.S.       | F.S.       | 4 wire steel post<br>Steel deck, timber<br>base | 16'                   | 700   |
| 1965 |        | Green Mtn. Saddle<br>Cattleguard<br>SE Sec. 33, T40N, R35E  | F.S.                        | F.S.       | F.S.       | F.S.       | Steel deck, timber<br>base                      | 16'                   | 700   |
| 1969 |        | Lone Ranch Saddle<br>Cattleguard<br>NE Sec. 9, T40N, R34E   | F.S.                        | F.S.       | F.S.       | F.S.       | Steel deck, timber                              | 16'                   | 700   |
| 1971 |        | N. Fork Lone Ranch<br>Cattleguard #1<br>SW Sec. 17, T40N, R34E  | F.S.                        | F.S.       | F.S.       | F.S.       | Steel Deck, timber                              | 16'                   | 700   |
| 1971 |        | N. Fork Lone Ranch<br>Cattleguard #2<br>SE Sec. 13, T40N, R34E  | F.S.                        | F.S.       | F.S.       | F.S.       | Steel deck, timber                              | 16'                   | 700   |
|      |        | S Fk. Lone Ranch Saddle<br>Fence<br>Sec. 9 T39N, R35E   | F.S.                        | F.S.       | F.S.       | Permittee  | 4 wire steel post                               | 1.00 mi.              | 1000  |
|      |        | S. Fk. Lone Ranch Saddle<br>Cattleguard<br>S. 9, 39/35  | F.S.                        | F.S.       | F.S.       | F.S.       | Steel 8x14                                      | H20 load              | 700   |
|      |        | <u>1/</u> Permittee construction and maintenance obligation:<br>Grumbach and Son 78%<br>Peter Singer 22%<br><br>To be assigned by annual plan of use in lieu of specific standing assignment. |                             |            |            |            |   |                       |       |



Table 7

Proposed Improvements

Aug. 1976

| Date | Number | IMPROVEMENT<br>Name and Location  | CONSTRUCTION RESPONSIBILITY |                     |                     |                        | Type   | FACILITY              |              |
|------|--------|---|-----------------------------|---------------------|---------------------|------------------------|--|-----------------------|--------------|
|      |        |   | Material                    | Equip.              | Labor               | Maint.                 |  | Capacity-<br>Quantity | Cost         |
| 1976 |        | Lone Ranch Divide Fence<br>(Extension)  | F.S.                        | F.S./<br>Permittees | F.S./<br>Permittees | <u>1/</u>              | 4 Wire, Steel Post   | 2 mi.                 | \$4400       |
|      |        | Lone Ranch Divide Fence<br>Cattleguard  | F.S.                        | F.S.                | F.S.                | F.S.                   | Steel 8x14'  | H20<br>Load           | 1200         |
|      |        | Togo Mtn/South Fork<br>Fence  | F.S.                        | Permittees          | Permittees          | <u>1/</u>              | 4 Wire, Steel Post   | 3 mi.                 | 6600         |
|      |        | Togo Mtn/South Fork<br>Fence Cattleguard  | F.S.                        | F.S.                | F.S.                | F.S.                   | Steel 8x14'  | H20<br>Load           | 1200         |
|      |        | Sec. 30, T40N, R35E<br>F.D. RD. NO. 1586<br>Rocky Mtn Ridge<br>Cattleguard                    | (F.S.)                      | F.S.                | F.S.                | (F.S.)                 | Steel 8x14'  | H20<br>Load           | (1200)       |
|      |        | Sec. 6, T39N, R35E<br>F.D. RD. No. 1588<br>Rocky Mtn Ridge<br>Fence 1st Phase                 | F.S.                        | F.S.                | F.S.                | <u>1/</u>              | 4 Wire, Steel Post   | 3 mi.                 | 6600         |
|      |        | Sec. 6, 7, & 8<br>T39N, R35E<br>(Unsurveyed)<br>2nd Phase                                     |                             |                     |                     |                        |  |                       |              |
|      |        | Sec. 20 & 36, T40N, R34E<br>U. S./Canadian Line<br>Fence at Manley Cr.<br>W 1/2 Sec 3, S. 4&5 | F.S.<br>F.S.                | F.S.<br>Permittees  | F.S.<br>Permittees  | <u>1/</u><br><u>1/</u> | 4 Wire, Steel Post<br>4 Wire, Steel Post                                       | 3 mi.<br>2.5 mi.      | 6600<br>5500 |
|      |        | <u>Reconstruction</u>   |                             |                     |                     |                        |  |                       |              |
|      |        | 6 Stockwater Dev.   | F.S.                        | Permittees          | Permittees          | <u>1/</u>              | Steel Trough 6 @ \$300   | 600 gal               | 1800         |
|      |        | 4 Stockwater Dev.   | F.S.                        | Permittees          | Permittees          | <u>1/</u>              | Steel Trough 4 @ \$675<br>Supply Line<br>Collection System<br>Protection Fence | 600 gal               | 2700         |
|      |        | Revegetation and/or noxious weed projects are not included !                                  |                             |                     |                     |                        |  |                       |              |

### VIII. Implementation and Alternatives

Implementation of the deferred rotation system will become effective operational upon completion (extension) of the Lone Ranch Divide Fence and construction of Togo Mountain - South Fork Lone Ranch Fence and cattleguard F.D. RD. No. 1586. Thence, peripheral, (allotment boundaries between National Forest lands) i.e.: The Rocky Mountain Ridge will become more imperative as the area is developed through timber activities. Other boundary fences like the proposed U.S./Canadian Line Fence and improvement of the South Fork Lone Ranch Saddle, Green Mountain Saddle Fences will be needed. All stockwater developments will have to be upgraded by various degrees.

Demurring on the obvious major alternative management plan, the recommended alternative would be limited to a prescription change of the same proposed grazing units as shown in Table 8. The units remaining the same as in Section V. The alternate deferred rotation system would be a modified 3 unit, 3 year cycle deferred rotation cycle of 153 days annually from June 1st to October 31st.

Table 8: Alternate Deferred Rotation System

| <u>Cycle</u><br><u>Year</u> | <u>Grazing Periods and Unit Sequence</u> |                   |                    |
|-----------------------------|--|-------------------|--------------------|
|                             | <u>Early Summer</u>                      | <u>Mid-Summer</u> | <u>Late Summer</u> |
| First                       | 1 & 1A                                   | 3                 | 2                  |
| Second                      | 1 & 1A                                   | 3                 | 2                  |
| Third                       | 2  | 1                 | 3                  |

Repeat Cycle

Recommended stocking and permits would remain the same as under Section V of this plan.



IX. Evaluation

- A. Monitoring of the allotment area and evaluation of the information will be necessary to determine whether management requirements will meet the objectives and/or what if any changes are needed.

Specific or subsequent evaluations, i.e.: Range readiness, key species, key areas, carrying capacities, etc., will be inserted and/or superceded as supplementary or replacement pages to this section.

- B. Depending on funds and manpower available, data collection will be limited to several recurrent inspections annually by simple visual and/or minimal measurement, and appropriately recorded and/or graphically displayed on maps. Some of the observations measurements may be made coincidentally with each other. Specific items to be checked for include:

1. Range Readiness . . . . . Vegetative and soil condition.
2. Pattern of Use . . . . . Key areas and key plants.
3. Utilization . . . . . per cent use.
4. Resource Damage . . . . . basic (soil) and other resource.
5. Range Improvements . . . . . Construction and Maintenance compliance.

- C. Additional data to be gathered as the situation warrants include:

1. Plant Vigor . . . . . Key plants on key areas.
2. Soil and Vegetation trends . . . . . per grazing system cycle using photo point technique.
3. Production . . . . . Forage weight.

- D. Range environmental analysis and mapping will be kept current as significant changes occur, i.e.: transitory range, range conditions, etc.

- E. Key areas will be determined from successive observations and utilization checks and graphically recorded on an allotment map overlay.

- F. Key plants will be defined from observation and study in conjunction with the determining of key areas and other suitable range lands.

- G. A Record of Grazing Use (see Appendix V) will be kept to indicate permitted and/or actual use.

Evaluation: July, 1976

Range Readiness: Present indicators and criteria are:

|                      |      |  |
|----------------------|------|--|
| Pinegrass            | Caru | 4"-6" foliage leaves                     |
| Sandberg bluegrass   | Pose | Seed heads in dough stage                |
| Bluebunch wheatgrass | Agsp | 8" foliage, seed stalks showing          |
| Idaho fescue         | Feid | 5" foliage leaves                        |
| Common yarrow        | Acmi | Flower stalks beginning to show          |
| Arrowleaf balsamroot | Basa | Leaf 3/4" developed, beginning to flower |
| Serviceberry         | Amal | Part of blossoms out                     |
| Snowberry            | Syal | 7-8 pairs (each bud) leaves unfolded     |

Soils fairly dry and firm.

Key Areas: Are not, as yet, specifically defined and should be eventually determined by subsequent use and utilization pattern monitoring and documentation.

Key Species: Key species may vary with the different key areas, and are yet to be determined. Pinegrass, by virtue of its predominance (70-80%), is a key species.

Every opportunity should be taken to manipulate species and improve species composition with grass specie compatible and complementary to the pinegrass. Pinegrass palatability and nutritive value rapidly deteriorate by mid-summer in the general elevations.

Utilization: Recommended utilization for implementing the deferred rotation system is to approximate 50%. Higher utilization may be attainable for a fully developed rotational system.

Carrying Capacity: Anticipated increases will depend on the degree of development and efficiency of operating the grazing system, as well as prevailing climate and forage conditions. The basic potential is there and the rotational system should enhance forage condition, volume, and utilization.

The seeding of desirable grass forage specie on all disturbed areas in general is almost imperative to sustain and improve the forage resources. Such a specie should be of a physiologically summer active (growing) characteristic. Orchard Grass (Dayl) and Smooth Brome (Brin) appear to be favorable candiates from local observation.



Overview: The obvious major alternative to the proposed deferred rotation plan would be the combining of the Lone Ranch and Day Creek Allotments into a single system in total or variation thereof, i.e.:

(See Appendix Map V ).

Option A: Three original Units 1 (+ 1A), 2 and 3 of Lone Ranch plus the two major (Units) of Day Creek Allotment as the 4th (Day Creek) and 5th (Third Creek) Units of a 5 unit deferred or rest rotation system.

Option B: Three original Lone Ranch Units plus the Third Creek area of the Day Creek Allotment as a 4 Unit rotational grazing system.

Option C: Two (Units 2 and 3) of the original Lone Ranch Units coupled with the two major units of Day Creek as the 4th and 5th Units of a 4 Unit rotational system. Unit one of the Lone Ranch Allotment would be designated as a separate allotment - Lone Ranch.

Option D: Two (Units 2 and 3) of the original Lone Ranch Allotments plus the Day Creek area of the Day Creek Allotment as the third unit in a 3 unit deferred rotation system and the Number 1 Unit of Lone Ranch being set aside as a separate allotment and the Third Creek Unit coupled with the Long Alec Unit in a coordinated private land deferred rotational system.

The unique lay of the two Allotments presently afford more than several options of merit with a minimum of variances in range improvement fences needed over and above the individual allotments development into rotational systems.

However, none are recommended at this time.

Notwithstanding any land exchanges National Forest lands in Section 2, T40N, R34E should be put under on/off proviso of grazing permits in lieu of special use status. Land exchange should involve SWNE S. 13, T40N, R34E if possible.

Special use (pastures) in Section 14, T40N, R34E should be land exchanged.

Control over Lone Ranch Creek discharging through SW 1/4 of Section 14, T40N, R34E should be retained by the Forest Service as access for stockwater.

Eventually, a potential trespass problem will have to be resolved along the National Forest Boundary south of the County Road No. 71 (F.D. RD. No. 1586) on Lone Ranch Creek necessitating a cattleguard on the county road by and/or through the county on behalf of the permittees. Adequate access for stockwatering from either side of the National Forest Boundary should be provided when and if fenced. In the interim, stockwatering access should be provided if so desired by on/off proviso for the permittee's cattle on adjacent land.

Removal or reconstruction, relocation in whole or in part of the fence in the SW S. 14, T40N, R34E. and NW 1/4 S. 23 (40/34) together with ownership vested in the U. S. Government should be effected in providing stockwatering access in the interim period, or quit claim to the Forest Service for the private fence in the SW 1/4 S. 23, T40N, R34E, or replacement thereof by the permittee(s).



AREA AND FORAGE PRODUCTION/CONDITION SUMMARY

Appendix I

Lone Ranch C&H

ALLOTMENT

Colville

NATIONAL FOREST

Republic

RANGER DISTRICT

Compiled

1/26/76

By

W. B. Reed

| ITEM                       | NATIONAL FOREST LANDS |     | ALIENATED OWNERSHIP LANDS |     | ALLOTMENT TOTAL LANDS |     |
|----------------------------|-----------------------|-----|---------------------------|-----|-----------------------|-----|
|                            | Acres                 | %   | Acres                     | %   | Acres                 | %   |
| Gross (Subject to CLOSURE) | 18295                 | 100 | 110                       | 100 | 18405                 | 100 |
| UNUSABLE or UNFITTABLE     | 8400                  | 46  | -                         | -   | 8400                  | 46  |
| SUITABLE                   | 9895                  | 54  | 110                       | 100 | 10005                 | 54  |
| PRIMARY (Transitory)       | 4000                  | 40  | 75                        | 68  | 4075                  | 41  |
| (Prime/Sec)                | 645                   | 7   | -                         | -   | 645                   | 6   |
| SECONDARY                  | 5250                  | 53  | 35                        | 32  | 5285                  | 53  |

| VEGETATIVE TYPE | %   | ACRES BY FORAGE PRODUCTION/CONDITION CLASS |             |      |      |          |      |      |           |      |
|-----------------|-----|--|-------------|------|------|----------|------|------|-----------|------|
|                 |     | Good                                       | Fair        | Poor | Good | Fair     | Poor | Good | Fair      | Poor |
| P1 1075 a.      | 23  | 115  | 880         | 40   | 10   | 25       | 5    | 125  | 905       | 45   |
| P5 145 a.       | 3   | 5  | 140         | -    | -    | -        | -    | 5    | 140       | -    |
| P6 2855 a.      | 60  | 90   | 2130        | 600  | -    | 15       | 20   | 90   | 2145      | 620  |
| 645 a.          | 14  | 25   | 250         | 370  | -    | -        | -    | 25   | 250       | 370  |
| Sub T. 4720 a.  |     |  | 4645 a. 98% |      |      | 75 a. 2% |      |      | 4720 100% |      |
|                 |     | 5%   | 73%         | 22%  | 13%  | 53%      | 34%  | 5%   | 73%       | 22%  |
| S1 155 a.       | 3   | -  | 155         | -    | -    | -        | -    | -    | 155       | -    |
| S5 185 a.       | 4   | 25   | 140         | 20   | -    | -        | -    | 25   | 140       | 20   |
| S6 4945 a.      | 93  | 10   | 2525        | 2375 | -    | 15       | 20   | 10   | 2540      | 2395 |
| Sub T. 5285     |     |  | 5250 a. 99% |      |      | 35 a. 1% |      |      | 5285 100% |      |
|                 |     | 1%   | 54%         | 45%  | -    | 43%      | 57%  | 1%   | 54%       | 45%  |
| SUITABLE 10,005 | 100 | 270  | 6220        | 3405 | 10   | 55       | 45   | 280  | 6275      | 3450 |
|                 | %   | 3%   | 62%         | 34%  |      | 1%       |      | 3%   | 63%       | 34%  |

