

PRINCE C&H
ALLOTMENT MANAGEMENT PLAN
Pine Valley District
Dixie National Forest

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1/22/74
Date

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1/28/74
Date

ALLOTMENT MANAGEMENT PLAN

PRINCE C&H ALLOTMENT

Pine Valley Ranger District
Dixie National Forest

1. Objectives

- ✓ a. Provide for maximum forage and livestock production in conformance with the Region Four and District Multiple Use Management Guide and Plans.
- ✓ b. Bring allotment to capacity.
- ✓ c. Fence and protect Anderson Meadow.
- d. Develop livestock water in Pass Creek
- e. Provide studies to determine long range vegetational trends.
- f. Provide management to assure an upward trend in vegetation and soils on all portions of the allotment.

2. History and Current Status

a. Past Actual Use

Records of past use on this area are not complete. They indicate that up until about 1925 this allotment was grazed by cattle. From then until 1945, use was by 957 sheep with a 6/1-9/30 season. Wet Sandy was a part of the allotment at that time. In 1945 the preference on the Wet Sandy Unit was changed to cattle and added to the Leeds Allotment. By 1947 the remainder of the sheep had been exchanged for cattle, with a season of 6/1-9/30.

Following is a record of use by cattle on the Prince Allotment from 1947 to present:

<u>Year</u>	<u>Number</u>	<u>Animal Months</u>
1947	103	412
1948	69	353
1949	73	278
1950	75	290
1951	73	280
1952	76	284

<u>Year</u>	<u>Number</u>	<u>Animal Months</u>
1953	75	285
1954	80	280
1955	79	316
1956	84	336
1957	54	216
1958	45	186
1959	68	272
1960	72	288
1961	85	340
1962	98	392
1963	94	376
1964	98	392
1965	92	359
1966	92	354
1967	57	228
1968	57	228
1969	57	226
1970	54	212
1971	57	228
1972	57	228

b. Past Management

Very little development work has been done on the allotment. Cattle follow the same basic schedule each year. Basically this is spending approximately 4-6 weeks on the lower unit and then trailing to the higher unit for 2-3 months.

c. Obligation

The 1973 obligation on the allotment is:

<u>Permittee</u>	<u>Season</u>	<u>Number</u>	<u>CM</u>
Ashby W. Pace*	6/1-9/30	41	164
Vivian F. Prince	6/1-9/30	28	112
Darce M. Prince	6/1-9/30	<u>29</u>	<u>116</u>
		98	392

*Mr. Pace's permit will terminate in 1975 unless he uses it.

d. Ranch Operation

Ashby W. Pace ran a cow-calf operation until 1966 when he sold his livestock.

Darce and Vivian Prince have a cow-calf setup. However, neither have an economical unit and they use this operation to supplement their income. Both men work in Cedar City, Utah.

3. Range Condition and Trend

Range analysis was completed in 1965. Following is a summary of suitability, vegetal types condition and trend.

ACRES BY SUITABILITY CLASSES AND VEGETAL TYPES

Condition	Suitable					Unsuitable								
	S-9	S-5	S-10	S-2W	Sub Total	U-9	U-5	U-6	Sub Total	N-5	N-6	T&8	Sub Total	Total
Excellent				13	13									13
Good			202		202		103		103		623		623	938
Fair		253	218	10	663	505	991	538	2034	1266	923		2189	4886
Poor	556	362			918		1412		1412					2330
Unclass.												438	438	438
TOTAL	556	615	602	23	1796	505	2506	538	3549	1266	1546	438	3250	8595

Prince Allotment (Updated 11/77 by Benton M. Smith)

Type and Suitability	Acres by Condition Class				V. Poor	Totals
	Excellent	Good	Fair	Poor		
<u>Suitable</u>						
S 2b	13				10	23
S 5					615	615
S 9					556	556
S 10		202	400			602
Sub-Totals	13	202	400	1171	10	1796
<u>Unsuitable</u>						
U 5						3773
U 6						2084
U 9						505
U 8						437
Sub-Totals						6799
Allotment Total						8595

4. Estimated Grazing Capacity

It is usually evident when permittees take non-use for extended periods that the involved allotment is marginal. This is certainly the case with this allotment. Mr. Ashby W. Pace has not used his permit for several years.

Vivian and Darce Prince use the allotment since their property borders it and because they have "lived" on the mountain for most of their lives. Thus, they exert themselves and have their cattle "trained" to use this very rugged area.

As to the capacity of the allotment, hopefully the 41 head permit of Mr. Pace's will expire, leaving only the 57 head of permitted cattle for a 4 month season.

Since the allotment is so marginal it would be easy to justify "writing it off" and closing it to livestock grazing. On the other hand, one can ask what harm are the 57 head doing? From observations the only real damage being done is to Anderson Meadow. Grazing this small meadow with the cattle needs to be stopped.

Therefore, the estimated grazing capacity on this allotment cannot be computed in the normal way. About all that can be done is to put the cattle on and leave them until the range has "had enough" and then remove them.

5. Management System

It appears there are only about two alternatives to management of the allotment. These are:

- a. Close the allotment to livestock grazing.
- b. Continue to use the allotment about as it is being used at the present time.

The second alternative is the method chosen for the time being. Therefore, the grazing schedule will simply be:

Low Unit - Graze first, 4-6 weeks.

High Unit - Graze second, 2-3 months.

The cattle will need to be removed from the Forest when "tolerable use levels" have been reached.

6. Range Improvements

Existing

There is approximately 4 miles of 4-wire boundary fence. It is in

fair condition but needs periodic maintenance. There is also a log fence in the head of Anderson Canyon separating the Prince and Pine Valley Allotments. It is in fair condition with periodic maintenance needed.

The 4 existing ponds need clearing.

Proposed

There is an old sheep watering trough in the upper end of the Pass Creek drainage that is used by the cattle (heavily in dry years). The permittees expressed the desire to have this water piped down slope about 2/3 of a mile to a more gentle area. This can, and should, be done by laying a plastic line through the brush. It does not appear that an attempt should be made to bury the line as it is extremely rocky. A trough and/or pond will need to be put in at the end of the line.

The Anderson Meadow needs to be fenced to exclude the cattle and provide forage for recreation stock. Therefore, in 1974 and 1975 the following improvement work is planned:

- | | |
|--|---------|
| a. Fence Anderson Meadow, 1,600 feet of pole fence.
Rake in seed on eroding banks and place rocks
over headcuts. | \$2,500 |
| b. Put in approximately 4,000 feet of plastic 1 1/4"
line and water trough. | \$1,000 |
| c. Build one new pond at the end of above mentioned
pipeline. Clean 4 other ponds. | \$500 |

7. Reseeding Possibilities

Originally it had been hoped that much of the low unit could be reseeded. This had to be abandoned as it is too rough and rocky. Therefore, no revegetation work is planned for the allotment (other than Anderson Meadow).

8. Correlation With Other Uses

Management of this allotment will correlate grazing with other uses as provided for in the "Region Four Multiple Use Management Guide" and the "Pine Valley Ranger District Multiple Use Plan."

The allotment lies within the Lower and Intermediate Zones, and the Pine Valley I-1 Management Unit.

The specific coordination as stated below applies to the Lower and Intermediate Zones.

a. Recreation

There are no developed sites or inventoried sites on the allotment. Anderson Valley is a choice meadow that is developing into an area needed for recreation horses. Fencing the meadow and keeping it for exclusive recreation horse use should provide needed coordination.

b. Timber

There is no timber on the allotment considered to be in the commercial cut.

c. Wildlife

Browse is abundant on the allotment. Therefore, it is doubtful if there is much competition for it between the deer and cattle. It is possible there is competition for grasses, should the deer need or desire any, as grass growth is very limited on parts of the allotment.

There does not appear to be significant competition between other species of wildlife and the cattle.

d. Watershed

Management and development will be directed toward improving watershed conditions. The headcut in Anderson Meadow will be checked if possible.

e. Access

Several old deer hunter access roads cross the lower unit. However, they have not been maintained so they have reverted to trails. The trail to Anderson Meadow needs to be worked, as this is the main access from the New Harmony side to Pine Valley Mountain.

f. Land Uses

There is one water transmission ditch under special use in the lower unit. It is an open cement-lined ditch that is used for irrigation in the New Harmony area. This water is used by livestock grazing on the National Forest.

There is also a cabin under special use permit to Darce and Vivian Prince near Anderson Meadow for the purpose of managing their livestock (it was originally a hunting camp).

9. Administrative Problems

Unauthorized Grazing Use

No serious trespass problems are anticipated on the allotment.

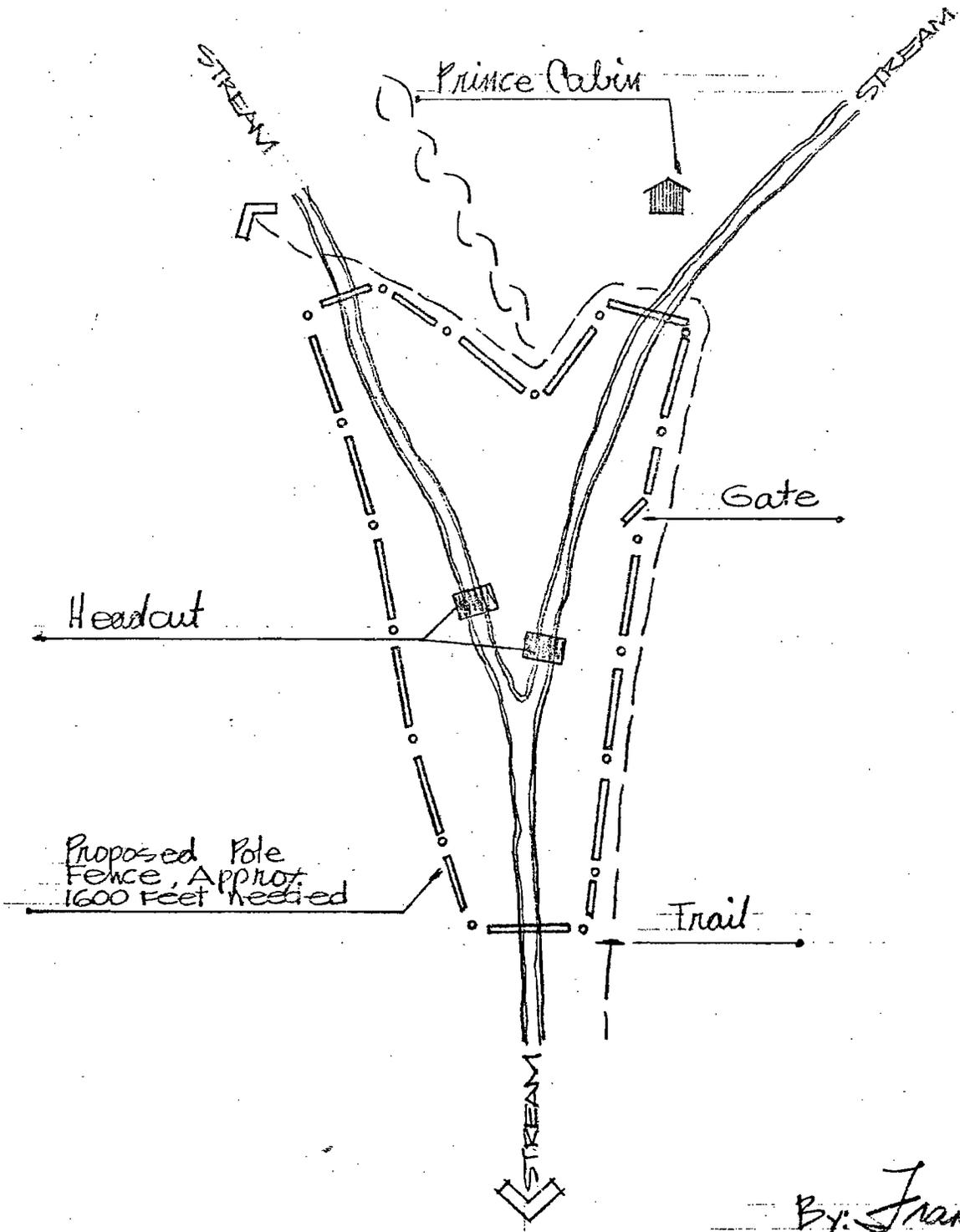
10. Alternatives

If Mr. Ashby Pace elects to again fill his permit or legitimately transfers it to someone else, there appears to be no alternative but to reduce all permittees so that no more than the 57 head of cattle that have been using the allotment in recent years continue to do so.

If Mr. Pace's permit terminates, then an attempt will be made to graze the 57 head for at least part of the permitted 4 month season.

If it is determined eventually that grazing this allotment with cattle is detrimental to the resource or it is in serious conflict with other uses of the land, there will be little alternative but to terminate the permits.

PROPOSED PROTECTION FENCE FOR ANDERSON MEADOW



By Frank Jensen

7/10/73

PHOTOS OF PRINCE ALLOTMENT

Taken June 22, 1973



Photo #1 -- Lower unit of the Prince Allotment. Vegetation is primarily browse. One of the livestock ponds is circled.



Photo #2 - Lower Unit with some pinyon-juniper, very little grass production.



Photo #5 - Anderson Meadow. This choice area in the upper unit needs to be protected from cattle grazing. The headcuts are "walking" up the small alluvial bottom and if allowed to continue will destroy its meadow characteristics.

It is not meant to imply that livestock grazing is the cause of the headcut. However, the cattle are not "helping" the situation. The meadow is perched in a small valley composed of sandy alluvium material. Some disturbance (natural or man caused) has caused the base level of the stream to drop about 6 feet on the lower end of the meadow. This in turn causes the headcutting action to "walk" up the channel.

This meadow is also one of the places where horseback recreationists like to camp. If the meadow were fenced they could put their horses in it. Eventually this use too might have to be regulated but not at the present time.

The fences will have to be of pole construction (probably worm-type, Range Improvement Handbook Plan RM 13) to fit in with surroundings. A work horse will be needed to skid the logs (aspen plentiful) for the fence and rocks for the headcut stabilization work.

It will take approximately 1,600 feet of pole fence to enclose the meadow.



Photo #6 - Closeup of the larger headcut in Anderson Meadow. The headcut has "walked" up stream about 25 feet in the past 5 years.

In addition to fencing the meadow, it is proposed to rake smooth ^{brome} ~~browse~~ grass seed into the raw banks and place rocks to provide a "drop" for the stream.



Photo #7 - This smaller headcut just below the cabin was checked by placing rocks in the stream to raise the base level. It is not known who did the work.



Photo #3 - The trail from the lower unit to the upper unit can be seen.



Photo #4 - Closeup of trail. This is an important trail for administration of the Pine Valley Mountain as well as moving the cattle between the lower and upper units. The trail needs maintenance and a few signs.



Photo #8 - Prince cabin at the head of Anderson Meadow. This cabin is under special use permit to the permittees. It is not in very good condition. Originally it had been constructed as a hunter camp.