

MANAGEMENT PLAN  
NORTH FORK ST. PETER'S CREEK C&H ALLOTMENT  
REPUBLIC RANGER DISTRICT  
COLVILLE NATIONAL FOREST  
REGION SIX

Prepared By: John McCluskey 6/30/76  
Date

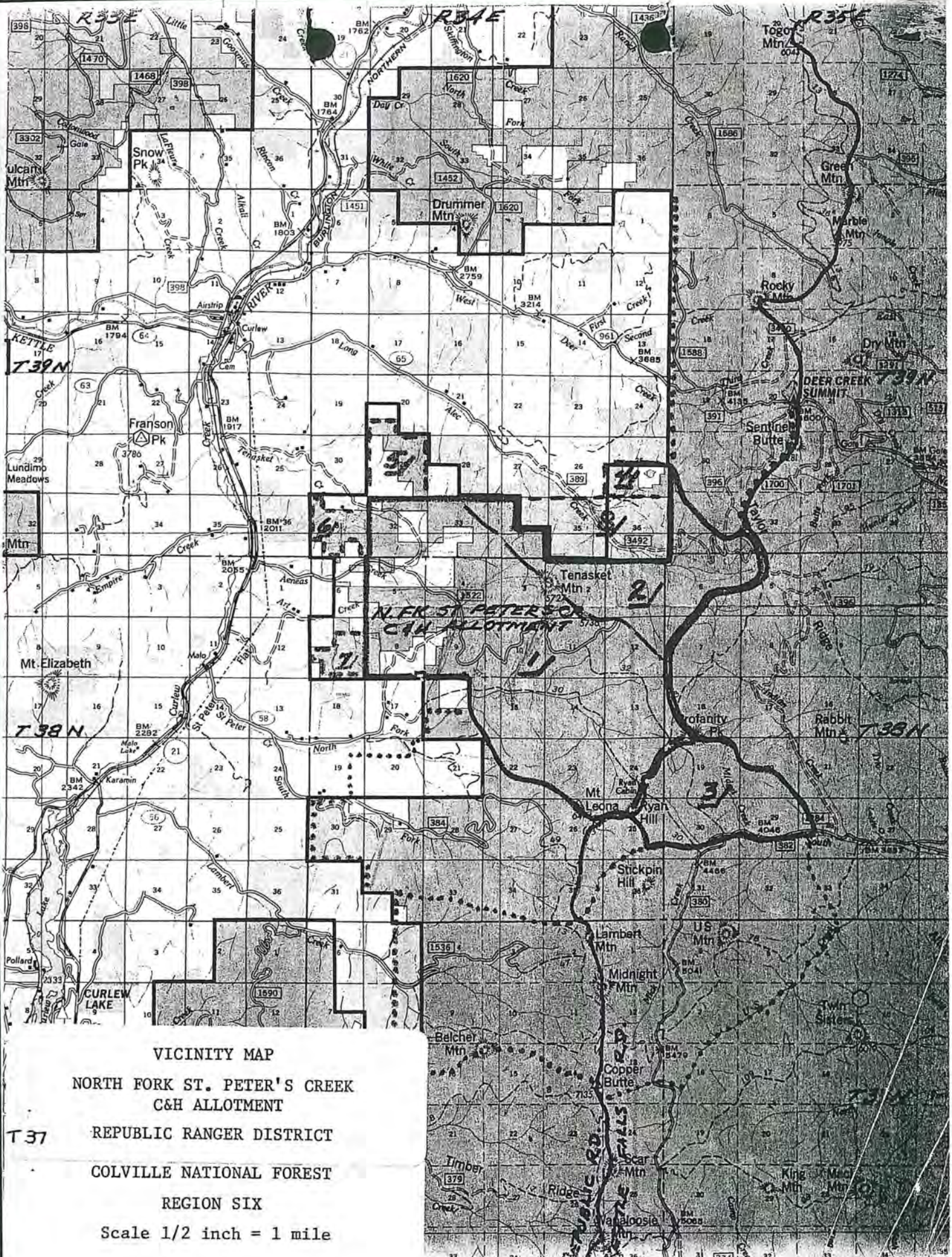
Reviewed By: S/ Charles M Johnson 7/12/76  
Permittee Date

Reviewed By: S/ Oscar Strandberg  
Permittee Date

Recommended By: S/ Jack Francis 8/31/76  
District Ranger Date

Approved By: S/ Robert B Terrill 9/14/76  
Forest Supervisor Date

original missing? No sent to SO (Virginia Hall)  
2/21/79



VICINITY MAP

NORTH FORK ST. PETER'S CREEK  
C&H ALLOTMENT

T 37 REPUBLIC RANGER DISTRICT

COLVILLE NATIONAL FOREST

REGION SIX

Scale 1/2 inch = 1 mile

#### IV. Allotment and Estimated Capacity

The current gross allotment area is 17,283 acres of which about half (8,712 a.) is considered suitable for grazing at this time. About 2,461 acres is in the adjoining Kettle Falls Ranger District. Approximately 1,511 acres is intermingled private ownership of which only 320 acres is affiliated with National Forest administration.

The current land exchange plan would reduce the gross allotment acreage to approximately 15,476 gross acres.

For the interim period pending divestiture of the various land parcels designated for land exchange, Allotment lands are classified as follows:

Table 1. Summary of Allotment Relevant Lands

<u>Ownership</u>	<u>Gross Acres</u>	<u>Suitable Acres</u>	<u>Indicated PFP (CM)</u>
<u>Affiliated</u>			
	<u>Basic Allotment</u>		
N.F. (D4)	8849	4705	723
N.F. (D2)	2461	991	132
N.F. (Hart/Jones)	238	238	36
Pvt. (Johnson)	320	315	51
Affiliated Sub.Total	11868	6249	942
<u>Unaffiliated</u>			
Pvt. (Hilderbrant)	160	160	22
Pvt. (Norpac)	437	437	61
Unaffiliated Sub.Total	597	597	83
Basic Total	12465	6846	1025
<u>Available for Satellite Systems</u>			
<u>Affiliated</u>			
N.F. (Sec. 7)	345	313	53
N.F. (Sec. 31)	422	317	50
N.F. (Sec. 29)	400	230	41
N.F. (Sec. 25)	230	230	33
N.F. (Long Alec)	3011	415	67
Affiliated Sub.Total	4408	1505	244
<u>Unaffiliated</u>			
Pvt. Sec. 25	90	70	9
Pvt. Sec. 29	320	291	57
DNR Option	1440	705	97
Unaffiliated Sub.Total	1850	1066	163
Satellite Total	6258	2571	407
Grand Total	18723 a.	10922	1432

The indicated (potential forage production) in cow months (CM) is considered only an indicator or "benchmark" as to the potential of the suitable grazing area under a fully implemented intensive management system at a 100% efficiency.

Such animal unit months (CM) are based on up to 50% utilization of the 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 (PFP) acres are shown in Table 2 below:

Table 2. Classes of Potential Forage Production

<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+

Realizable or estimated capacity will be something less than the indicated potential in this forested type terrain. Initial carrying capacity under a beginning rotational grazing system is estimated at about 75% of the indicated capacity.

Non-affiliated lands or lands not under formal legal arrangement cannot be included in recommended stocking and/or permits.

IV. Allotment and Estimated Capacity

The current gross allotment area is 17,283 acres of which about half (8,712 a.) is considered suitable for grazing at this time. About 2,461 acres is in the adjoining Kettle Falls Ranger District. Approximately 1,511 acres is intermingled private ownership of which only 320 acres is affiliated with National Forest administration.

The current land exchange plan would reduce the gross allotment acreage to approximately 15,476 gross acres.

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N.F. (Sec. 29)	400	230	41
N.F. (Sec. 25)	230	230	33
N.F. (Long Alec)	3011	415	67
Affiliated Sub.Total	4408	1505	244
<u>Unaffiliated or Acres other on Classification report</u>			
Pvt. Sec. 25	90	70	9
Pvt. Sec. 29	320	291	57
DNR Option	1440	705	97
Unaffiliated Sub.Total	1850	1066	163
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V. Management System, Recommended Stocking and Permits

There are two significant rotational management system options. Both would involve consolidation and retention of the same National Forest land base as per current land exchange program, and the phase-out of land parcels designated for land exchange integrated with permittee controlled lands in satellite systems aside from the basic allotment.

The standard option is based on concurrent use in common by the two permittees.

The second or alternate option is based on a selective allotment division or split and the operation of two separate rotation grazing systems, each system being exclusive to one permittee.

The alternate option can be reverted back to the standard or first option. Contingent on permittee status and/or preference. The alternate option is shown in section VIII of this plan.

Both options call for the divorcement of the Long Alec (Basic) sub-unit. This is higher summer range with somewhat later range readiness and limited access. It does not have adequate carrying capacity to justify the difficulty and/or expense to develop access for its limited use. The section 25 parcel is designated for land exchange. It is best suited for use in conjunction with the adjacent and state and private lands of earlier range readiness in the lower part of the Long Alec drainage. Moreover its best current potential use is in conjunction with the present Day Creek Allotment (Third Creek Area) to integrate it into a deferred rotational system coordinated with the permittee who has current use of adjacent lands and is an incumbent on both the North Fork St. Peter's Creek and Day Creek Allotments.

Section 7 lands can be integrated with Johnson's off the main Allotment use under an on-off proviso or retain its special use status as a paid special use.

Sections 29 and 31 would be integrated with Strandberg's off-allotment use in a separate deferred rotation system, in conjunction with his controlled adjacent lands.

The standard option is an unorthodox 5 unit, 3 year cycle deferred rotation system for a <sup>153</sup>~~153~~ day grazing period from June 1st to October 31 st annually.

Table 3. Deferred Rotation System

Cycle Year	Grazing Period and Unit Sequence				
	Early Summer	Mid-Summer	Late Summer	Early Fall	Mid Fall
First	1	2	4	5	3
Second	2	4	5	3	1
Third	3	1	4	5	2
	1	2	4	5	
	1	3	Repeat Cycle	2	

*Non-use*  
*First year 1980*  
*Second 1981*  
*Third 82*  
*1-1991 83*  
*3*

CYCLE YEAR	1st	UNITS SEQUENCE BY PERIODS			LAST REST	Merrill - 132 days - 6 cattle Long Alee N. FK, St. Peters Gordon → 122 days - 126 cattl
		EARLY	MID	LATE		
FIRST	1	23	34	42	1 - 1992	June 1 <sup>st</sup> to Sept. 30 <sup>th</sup>
SECOND	1	22	43	34	21 - 1993	Went to 3 units - 34 cows
THIRD	1	<del>23</del> Submit	<del>33</del>	423	1 - 1994	
FOURTH		21	23	342	41 - 1995	
FIFTH		21	32	43	1 - 1996	
SIXTH	1	1	23	42	21 - 1997	

REPEAT CYCLE

CYCLE YEAR	UNITS SEQUENCE BY PERIODS			LAST REST
	EARLY	MID	LATE	
FIRST	21	3	4	1
SECOND	1	4	3	2
THIRD	2	3	4	1
FOURTH	1	2	3	14 - 1998
FIFTH	2 + 20 days	3 - 47 days	42 - 40 days	1 - 15 days - 1999
SIXTH	1 - 20 days	2 - 47 day	43 - 40 days	21 - 15 days - 2000

REPEAT CYCLE

CYCLE YEAR	UNITS SEQUENCE BY PERIODS			Later REST
	EARLY	MID	LATE	
FIRST	21 - 20 days	3 - 40 days	42 - 47 days	1 - 15 days - 2001 - 126 cows 122 days
SECOND	1 - 20 days	42 - 67 days	3 Rest (Keona Fire)	21 - 30 days - 2002 - May have to change because of Keona Fire 2001
THIRD	21	3	42	1 - 2003
FOURTH	125 days 15	23 - 22 days 37	32 - 35 days 55	41 - 20 days - 2004 15 - Changed after meeting - 2004
FIFTH	2	3	4	1
SIXTH	1	2	4	3

REPEAT CYCLE

- 1/ Unit 4 (D4) and Unit 5 (D2) due to their similar characteristics of high summer range for the most part could be used at the same time. Depending on the level of stocking and length of grazing period cattle would be generally distributed about 60% (D4) to 40% (D2) for the combined time of Unit 4 and Unit 5. See Table 4.

Table 4. Modified Deferred Rotation System

Cycle Year	Grazing Period and Unit Sequence			
	Early Summer	Mid-Summer	Late Summer	Fall
First	1	2	4-(5)	3
Second	2	4-(5)	3	1
Third	3	1	4-(5)	2

Repeat Cycle

Table 5. Summary of Units and Planned Use

Range Chart No.		Gross Acres	Suitable Acres	Indicated CM	Planned Cattle	Planned Days	Planned CM	Suitable A/CM
<u>One</u>	NF	1521	931	91	135	30-31	135	6.89
<u>2/</u>	(PVT.	597	597	83)	(150	30-31	150	10.19)
Presently unaffiliated private lands.								
<u>Two</u>	NF	970	935	155	135	40-41	180	6.94
<u>3/</u>	PVT.	320	315	51	(150	30-31	150	8.33)
Three	NF	1826	1763	294	135	40-46	180-207	9.79-8.52
	-	-	-	-	(150	30-31	150	11.75)
Four-A	NF	4770	1314	219	135	40-46	180-207	7.3-6.3
	-	-	-	-	(150	35	175	7.5 )
D4 SubTotal		10004	5855	893	135	153	675	8.67
					(150	125	625	
Four-B	NF	2461	991	132	135	(30-31)	135	7.34
(D-2)	-	-	-	-	(150)	(28)	(140)	7.07
Totals		12456	6846	1025	135	153	765	8.94

1/ Will be supplemented by an estimated 41 CM from F. S. in Section 29 for interim period if necessary to justify the planned 135 CM in lieu of private lands being administratively affiliated.

2/ Not included in estimated capacity nor recommended permits equivalent of an estimated 15 cattle 6/1-10/31, (private land permit).

3/ Recommended estimated 8 cattle under private land permit, 6/1-10/31.



Contingent on the deferred rotational grazing systems being implemented and operational and insofar as the related lands are presently affiliated with Forest Service Administration the following stocking and permits are recommended on the standard option.

Table 6. Recommended Stocking and Permits

<u>Permittee Name</u>	<u>Number of Cattle by Permit</u>				<u>Total No.</u>	<u>Grazing Season</u>	<u>AUM (CM)</u>
	<u>Term</u>	<u>Temp</u>	<u>On/Off</u>	<u>Pvt.</u>			
Johnson	92	-	-	8	100	6/1-10/31	500
<u>Strandberg</u>	<u>35</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>35</u>	<u>6/1-10/31</u>	<u>175</u>
All	127	-	-	8 <u>1/</u>	135	6/1-10/31	675

On/off provisos for satellite rotational systems involving Section 7, T38N, R34E and Section 29 and 31, T39N, R34E would be contingent on controlled land composition per centages, cattle and grazing periods.

Section 7 should be restored and included as part of Unit 2 of basic Allotment notwithstanding separate status (on/off or special use) preparatory to a land exchange proposal.

1/ Possible additional cattle numbers (up to 15 head) eligible for presently unaffiliated 597 acres integral to standard option.

VIII.

Implementation and Alternatives

The key range improvement structures in implementing either option of the deferred rotation grazing systems are the Tenasket Bench Lo Fence and the Tenasket Bench Hi Fence. The Tenasket Bench Lo Fence Cattleguard is in place (F.D. RD. No. 1522) extension of this fence (intermittent sections in conjunction with natural barriers) southerly thru Section 9 (T38N, R34E) is the most important portion of this fence. The "Lo" fence should be extended northerly from the cattleguard toward the divide location only as far as necessary to tie in with the more or less natural timber barrier which may prove adequate for the time being. It will have to be extended to the Tenasket Mountain Ridge eventually.

The Tenasket Bench "Hi" Fence will extend on from the Tenasket Mountain Ridge (Section 2, T38N, R34E) southerly thru Section 10 and cross the North Fork of St. Peter's Creek and tie off into the dense timber on the south side of the creek. The "Hi" fence cattleguard needs to be relocated on F.D. RD. 1522.

With the upgrading of the stockwater developments (and increasing trough capacity) and these two fences an effective rotational system can be made operational.

Completion of the Aeneas Fence (Section 4 and 5) separating Units one and two would complete the basic allotment deferred rotational management system.

The rotation, reconstruction of the West Line, North Line and Profanity Gateway Fence improvements are to improve containment for effective satellite system management.

A cattleguard and by-pass gate for the West Line Fence on F.D. RD. 1522 should be stipulated for any subsequent reconstruction of this substandard portion of road.

The alternate or second option would utilize the same proposed range improvements.

The alternate option is based on the division of the area and each of the two permittees running their cattle in separate deferred rotation systems.

In this option, Unit one and Section 29 and 30 (T39N, R34E) lands would be allocated to a separate deferred rotation system in conjunction with Strandberg's adjacent State leased and privately controlled lands. The remaining Units 2, 3, 4 and 5 would be used exclusively by Johnson and may include the National Forest lands in Section 7, T38N, R34E depending on the status of potential land exchange.

Lands in the Long Alec drainage would still be separated and anticipated for use with Strandberg's Day Creek Allotment allocation and will be covered in the Management Plan.

Although actual lands, cattle numbers and grazing periods are in limbo pending the disposition and leasing negotiations, the Strandberg deferred rotation system is anticipated as a 3 unit, 3 year cycle deferred rotation system shown diagrammatically on Appendix Map III and the following table:

Table 9. Alternate Deferred Rotation System - O. Strandberg

Cycle Year	Grazing Periods and Sequence		
	Early Season	Mid Season	Late Season
First	1	2	3
Second (1977)	2	3	1
Third	3	1	2

Repeat cycle

Table 9, indicates the typical deferred rotation sequence, when and if initiated to begin with Unit 2, the northwest area off National Forest.

A summary of all three units at this writing is incomplete pending negotiation and agreement but a summary of the National Forest Unit One under the alternate option is as follows:

Table 10. Alternate Option Summary of Units and Planned Use - O. Strandberg

Range Unit No.	Owner	Gross Acres	Suitable Acres	Indicated C.M.	Planned Cattle	Planned Days	Planned CM	Suitable A/CM
<u>One</u>	N.F.	1521	931	91*)				10.23
<u>S.29</u>	N.F.	400	231	41*)				7.83
	( presently unaffiliated)			)	(100)	(45+)	(150)	(13.20)
<u>S.29</u>	Pvt.	320	291	57				5.10
<u>Other</u>	Pvt.	597	597	83				7.19
Unit One Sub Total		2838	2050	272	(100)	(45+)	(150)	7.5
<u>Two</u>		(To be determined)			(100)	(45+)	(150)	-
<u>Three</u>	N.F.	502	397	60	(100)	(45+)	(150)	-
	(Other to be determined)							
					(100)	(137)	(450+)	

Lands in the Long Alec drainage would still be separated and anticipated for use with Strandberg's Day Creek Allotment allocation and will be covered in the Management Plan.

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	( presently unaffiliated)			)	(100)	(45+)	(150)	(13.20)
<u>S.29</u>	Pvt.	320	291	57				5.10
<u>Other</u>	Pvt.	597	597	83				7.19
<u>Unit One</u>								
<u>Sub Total</u>		2838	2050	272	(100)	(45+)	(150)	7.5
<u>Two</u>		(To be determined)			(100)	(45+)	(150)	-
<u>Three</u>	N.F.	502	397	60	(100)	(45+)	(150)	-
		(Other to be determined)						
					(100)	(137)	(450+)	

Initial target capacity would be 100 cattle for 137 days of a variable season of May to October depending on actual range readiness and initial grazing unit.

The Alternate Option Deferred Rotation System for C. Johnson to run concurrently but on the remaining Units 2, 3, 4 and 5 will be a 4 unit 2 year cycle deferred rotation grazing for 153 day, June 1st to October 31st annually.

Table 11. The Alternate Option Deferred Rotation System - C. Johnson

Cycle Year	Grazing Period and Sequence			
	Early Summer	Mid Summer	Late Summer	Fall
First	2	4	5	3
Second	3	5	4	2

Repeat Cycle

The summary of units is similar to the standard or first option with adjustment for planned use for the single permittee exclusive use based on the deferred rotation grazing system being implemented and operational.

Table 12. Summary of Units and Planned Use - Johnson

Item	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Totals
Gross Acres	1/	970 NF 320 Pvt.	1826	4770	2461	10,027 N.F. 320 Pvt.
Suitable Acres	-	935 NF 315 Pvt.	1763	1314	991	5,003 N.F. 315
Indicated CM	-	155 NF 51 Pvt.	294	219	132	800 51
Planned Cattle	-	100 2/	100	100	100	100
Planned Days	-	30-31	45-46	45-46	30-31	153
Planned CM	-	100	150	150	100	500
Suitable A/CM	-	12.5	11.75	8.76	9.91	10.64

1/ Allocated to the other deferred rotation system.

2/ Includes 8 cattle under private land permit.

Recommended initial stocking for Johnson is 100 cattle (92 term and 8 cattle under private land permit) if so waived by the landowner and permittee and construction of the two key fences, the Tenasket Bench "Lo" and "Hi" to implement the rotational system.

Evaluation: June 20, 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 specie.

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 deteriorates 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.

Overview: Estimated capacity is based on approximately 75% of the indicated capacity, or anticipates about 75% efficiency or capability in utilizing the indicated potential forage production capacity.

The general vegetative condition is judged as generally fair, with isolated areas in good condition.

The Tenasket Bench area of Unit 3 is in a relative low condition and is considered to be producing below its potential. The key management fences will help rehabilitate this area. Encouragement and revegetation of this area would help rehabilitate the conifer stocking. With proper land management, including subsequent tree stock thinning and rotational grazing this area could be considered

the key unit of this allotment.

The indicated capacity (PFP) suggests that carrying capacity could conceivably be increased depending on prevailing climate, future land management practices (timber sales and revegetation and efficiency of forage utilization). New areas of logging activity will eventually be opened up and every opportunity should be made to restore forage ground cover with desirable grass forage species compatible and complementary to Pinegrass such as Orchard grass and Smooth Brome.

The indicated capacity and forage potential suggest that Unit 5, the Midget Creek Unit on the Kettle Falls Ranger District, could eventually be relinquished back to D-2 as the Allotment improves as anticipated. But initially Unit 5 should be retained in this system until such time as the Allotment's proven capability warrants separation and restoration to D-2.

The alternate option is a viable one, from a range management and administrative viewpoint as well as the individual permittee's standpoint of herd management and improvement and should be duly considered as a discretionary choice.

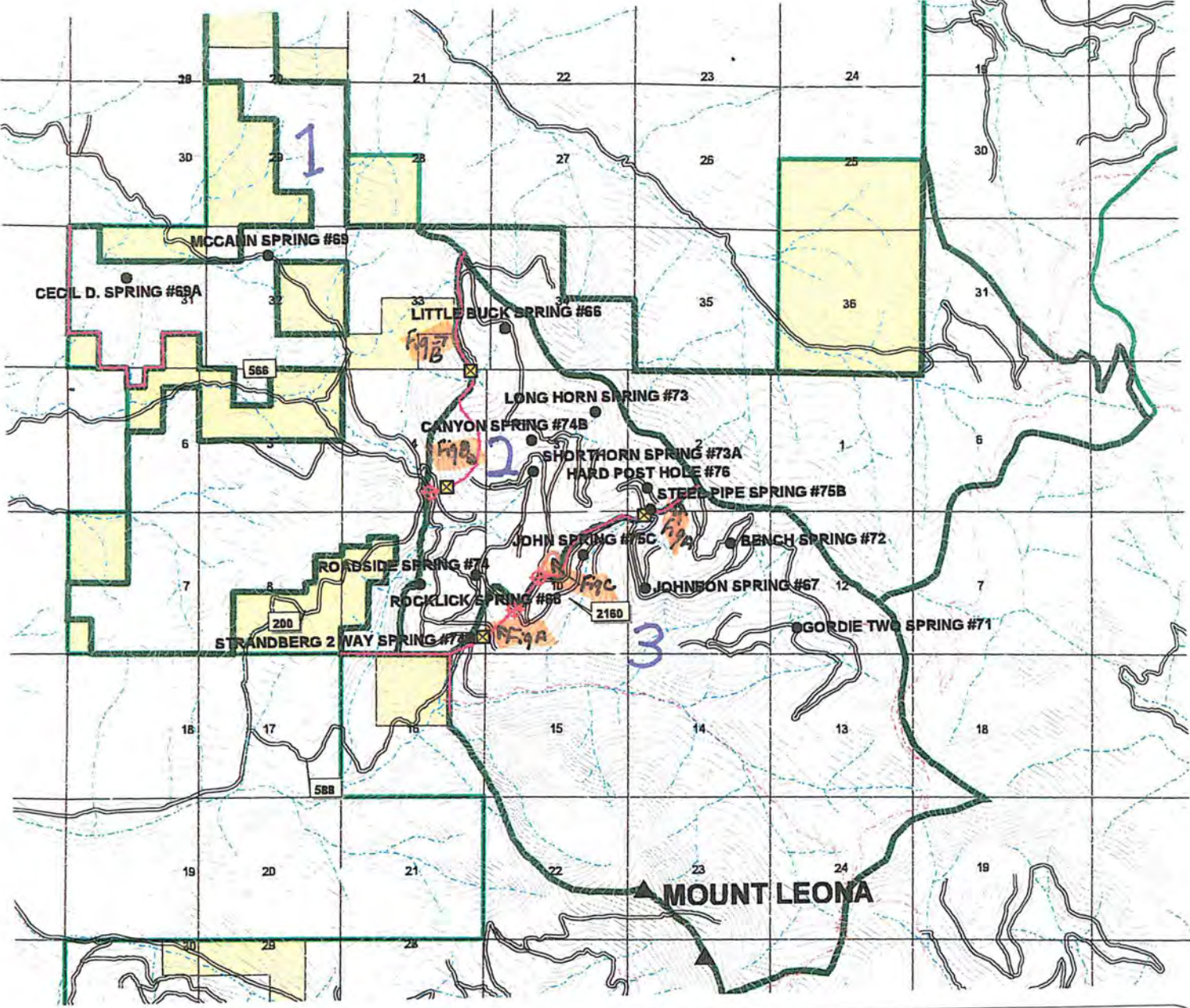
SUMMARY OF ACRES AND POTENTIAL AUM BY SUBUNIT,  
OWNERSHIP AND RANGE CLASS  
NORTH FORK ST. PETER'S CREEK C&H ALLOTMENT

Sub-Units	Gross Acres	Primary Range				Secondary Range				Combined Ownership by Individual Sub Units					
		N.F.		Pvt.		N.F.		Pvt.		Primary		Secondary		Suitable	Potential
		Acres	AUM	Acres	AUM	Acres	AUM	Acres	AUM	Acres	AUM	Acres	AUM	Acres	AUM's
1. Basic	10,004	2545	407	889	148	2160	302	261	36	3434	555	2421	338	5855	893
2. Long Alec (Basic)	3,011	140	22	0	0	275	45	0	0	140	22	275	45	415	67
3. Midget Cr.	2,461	737	115	0	0	254	17	0	0	737	115	254	17	991	132
4. Sec. 25*	320	0	0	0	0	230	33	70	9	0	0	300	42	300	42
5. Sec. 29*	720	223	40	266	53	7	1	25	4	489	93	32	5	521	98
6. Sec. 31*	422	76	15	0	0	241	35	0	0	76	15	241	35	317	50
7. Sec. 7(a)*	345	251	43	0	0	62	10	0	0	251	43	62	10	313	53
Unit Total	17,283	3972	642	1155	201	3229	443	356	499	5127	843	3585	492	8712	1335
8. DNR Option	1440	0	0	350	53	0	0	355	44	350	53	355	44	705	97

\* Subject to land exchange proposals



**NORTH FORK ST. PETERS**



**NORTH FORK ST. PETERS**

1:68000

- |   |                          |   |   |        |   |         |
|---|--------------------------|---|---|--------|---|---------|
|  | RANGE ALLOTMENT BOUNDARY |  |  | FENCES |  | TRAIL   |
|  | RANGER DISTRICT BOUNDARY |  |  | CORRAL |  | PRIVATE |
|  | STREAMS                  |  |  | FENCES |   |         |
|  | SPRINGS                  |  |  | FENCE  |   |         |
|   |                          |   |    |        |   |         |
|   |                          |   |   |        |   |         |