

RANGE USE PLAN

The District Manager, pursuant to *Section 41 of the Forest Practice Code*, in an independent and separate consideration, has determined that this Range Use Plan will adequately manage and conserve the forest resources of the agreement area.

The attached map is part of the Range Use Plan.

This Range Use Plan is associated with the following range agreement(s).

NAME:	RANGE	RAN071617
	AGREEMENT #	LICENCE
ADDRESS:	FILE #	15700-20
TELEPHONE:	STOCK	North
	RANGE	Okanagan,
	RANGE	King
	UNIT	Edward/Swallwell:
		306-3289-
		04,05,06,07,08

This Range Use Plan expires on December 31 2011
mm dd yr

Reviewed by _____ on _____
signature of Range Agreement Holder mm dd yr

REVISION INFORMATION: _____

DISTRICT AGROLOGY OFFICER: _____

This Range Use Plan takes effect on: _____
mm dd yr.

I hereby approve this Range Use Plan.

APPROVED BY: _____ on _____
Signature of District Manager mm dd yr

Range Use Plan for Livestock Grazing,

Map

See current colour digitized map scale 1:30,000 (1cm=0,3 km)

Measures to address strategies provided by the district manager relating to

(i) ungulate winter range

winter ranges will receive limited use by utilising a short duration grazing period of three weeks

utilize active herding and monitoring to distribute livestock uniformly when on the ungulate winter range.

Other Measures

(ii) achieving biological diversity

forage utilisation to occur over the entire useable range tenure area consistent with the readiness criteria and utilisation measures.

Other Measures

(iii) protecting resource features and/or sensitive areas

identified resource features are to be protected by limiting utilisation to 30% within 100 metres of the site.

Other Measures

(iv) achieving or maintaining properly functioning condition (PFC) in riparian areas

Riparian Areas

iv.1 Livestock shall not degrade more than 50 metres of any 500 metre length of streambank, wetland edge or lake edge.

iv.2 Livestock shall not cause significant siltation of fish bearing streams or streams within a community watershed.

iv.3 No more than 15% of the riparian management areas within a pasture may have degraded soils due to livestock trampling.

iv.4 Riparian areas such as streambanks, wetland or lake edge are viewed as sensitive sites and will only be utilized on a rotational basis .

iv.5 Livestock use will occur when soils are dried to the point where they are not susceptible to trampling or compaction.

Other Measures

- (v) achieving desired plant communities (DPCs) in areas that have been, or may be, significantly affected by livestock use

Other Measures

Current plant community	Desired plant community	Measures to achieve DPC
Pinegrass-calamagrotis rubescens	Pinegrass-calamagrotis rubescens	8cm stubble
Sedge carex rostratta	Sedge carex rostratta	20 cm stubble
Reedgrass – calamagrostis canadensis	Reedgrass – calamagrostis canadensis	8 cm stubble
Blue Wildrye	Elymus glaucus	12 cm stubble

- (vi) addressing water quality objectives

Salt well away from all streams, lakes, ponds and other water quality courses and in no circumstances closer than 50 meters.

Monitor for cattle inside the 30 meter wide, 1 km up stream zone of the intake and report actions taken to the Ministry of Forests, water purveyor and fellow tenure holder(s) in the watershed within 24 hours of a cattle sighting.

Other Measures

- (vii) minimizing damage to trees that are not free growing

vii. Timber Regeneration

vii.1 In any year if livestock activity leads to more than 5% of the young trees being damaged of a patch greater than 1 hectare, the livestock shall be removed immediately from the cutblock and kept out of it for the remainder of the grazing season unless otherwise specified in a written notice from a Forest Officer. The location of the cutblocks and the date livestock were removed must be reported to the District Manager within 10 days of the removal

vii.2 Cattle must be managed so that use in :

- Logged areas coloured red on the attached map is no more than 5%
 - The intent is for minimal use for two seasons. The Ministry of Forests may extend this designation beyond the two year time frame. Blocks which fall within key use areas or fill-in planting blocks will be reviewed for designation as moderate use (yellow) blocks.
 - Logged areas coloured yellow on the attached map are used 35% and
 - Commencing the third year and thereafter the forage use goal will be 30% until such times the conifers reach 1 metre in height.
 - Logged areas coloured green on the attached map are used 60%.
- The District Manager may amend the attached map at any time.

If basal scarring reaches 5%, cattle must be removed from the block or a contingency option acted on such as installation of an electric fence.

Other Measures

vii.3 Timber tenure holders must be notified of any major livestock movements that are not specified in the

Range Use Plan, at least 2 days prior to the move.

vii.4 The Range Use Plan and any subsequent change(s) to the planned livestock movements for the following year must be referred by April 30 each year to all timber tenure holders in the grazing area.

Other Measures

(viii) Wildlife Habitat Areas

A Wildlife Habitat Area does not occur in this plan area.

Other Measures

(ix) other strategies required to adequately manage and conserve the resource for the plan area

Other Measures

Range Use Plan
Other Grazing Tenure Measures

1. Salt, Supplement and Oilers

Salt, mineral, other supplements and cattle oiler sites shall be located:

-To encourage livestock to use less preferred areas.

-At least 100 metres away from stock water developments, openings in the timber and clearcuts

-Out of sight from any roads and landings

Exceptions will be allowed if topographic or grazing area boundaries permit no other reasonable alternative as judged by a Forest Officer.

Other Measures

2. Grass Seeding Establishment

New grass seeded sites are to receive minimal use for the first two years until forage establishment has occurred. The upper elevation Engelmann Spruce Subalpine Fir requires minimal use for the first three years.

Other Measures

3. Co-operation and Planning

3.1 The grazing tenure holder is to participate in planning processes such as Range Unit Plans , Co-ordinated Resource Management Plans, Range Plantation Protection Plans and Five Year Timber harvesting Plans.

3.2 The grazing tenure holder is required to discuss, meet and fulfill any other reasonable planning request from any member of the public if so directed by the District Manager.
Other Measures

4. Reporting

4.1 The amount of use in each pasture must be reported to the District Manager by December 31 each year if such use is in variance to the grazing use specifications within the Range Use Plan. The report must show the number and class of livestock, dates in and out of each pasture and the level of use.

Other Measures

5. Improvement Maintenance

The tenure holder must maintain all Crown range improvements to a good workmanship like standard, as specified in the Vernon Forest District Range Improvement Standards and as determined by a Forest Officer.

Other Measures

6. Livestock Management

6.1 Cattle shall be managed to obtain even distribution throughout each pasture unless otherwise specified in the grazing schedule, general utilization measures or specific strategies for an identified wildlife species.

Other Measures

7. Early or Late Movement Among Pastures

7.1 Cattle are to be moved through the grazing area according to the grazing schedule in the RUP. Minor adjustments of up to 7 days may be made to the dates at the discretion of the grazing tenure holder (except for first entry on to Crown land and final removal from crown land) as long as the following conditions are met:

- For turnout dates:
 - Pinegrass and/or Bluebunch wheatgrass growth exceeds 15 cm on the majority of the plants in the area actually to be grazed.
 - Soil is dry enough to withstand livestock traffic without being compacted and to inhibit trampling and pulling damage to plants.
 - Other criteria the District Manager may specify.
- For removal dates:
 - Utilization levels of key forage species must not exceed the prescribed levels.

Other Measures

7.2 Turnout onto alpine ranges shall be deferred until after most alpine species have bloomed.

Other Measures

8. Utilization

8.1 Average utilization of key forage plant species must not exceed the levels listed in the general utilization measures. This table does not apply to Alpine areas (see condition 8.2). The District Manager may add new species or change the prescribed levels of use contained within the general utilisation measures at any time.

Other Measures _____

8.2 For alpine areas use of key species shall not exceed 30%, Shrubs maximum 10% and a minimum of 10% of each species is to be left to set seed.

Other Measures _____

9. Weeds

Further to the Vernon District Weed plan all target weeds which includes Diffuse and Spotted knapweed, Houndstongue, Rush Skeleton weed, Toadflax, Sulphur Cinquefoil, Bull Thistle, and Canada Thistle are to be reported to the District Office. Isolated plants are to be pulled. All preventative measures are to be taken to remove weed seeds from cattle, horses, dogs, vehicles, and people, prior to entry onto rangelands, and prior to movement between range pastures.

Other Measures _____

10. Predator concerns

The Ministry of Environment, Fish and Wildlife Branch must be advised of, and will determine the action regarding, predator concerns.

Other Measures _____

11. Adjacent Landowners

Tenure holders will advise potentially impacted adjacent landowners to Crown Range of range use prior to turn out.

Other Measures _____

12. Okanagan Shuswap Land and Resources Plan (LRMP)

Achieve the objectives of the Okanagan Shuswap LRMP related to range management as identified in the attached Appendix #1.

Other Measures _____

(x) 13. Other measures

Grazing schedule (2002,2004,2006,2008,2010)

<i>Pasture name</i>	<i>No. of Livestock</i>	<i>AUMs</i>	<i>Period of use</i>	<i>Key Areas as given</i>	<i>Range Readiness Criteria/Plant Community/ Biogeoclimatic Zone</i>	<i>Average stubble height at end of period</i>	<i>Browse use levels</i>
North King Edward Pasture: RU3289-13	475 cattle	475	June 15 – July 15	Not applicable (NA)	Firm soil Pinegrass, leaves nodding, 4 leaves Bluebunch wheatgrass, 20 cm Saskatoon Rose Black gooseberry Black huckleberry IDFxh1 IDFmw1 ICHmk1 MSdm1	Pinegrass, 8 cm, leaves nodding Bluebunch wheatgrass, 13 cm	10%
Hidden Lake Pasture: RU3320-24	475 cattle	238	July 16 – July 30	NA	Firm soil Pinegrass, leaves nodding, 4 leaves Black huckleberry MSdm1	Pinegrass, 8 cm, leaves nodding	10%
Crescent Pasture: Ru3320-23	475 cattle	594	Aug 1 – Sept 7	NA	Firm soil Pinegrass, leaves nodding, 4 leaves Black gooseberry Birch-leaved spirea ICHmk1 MSdm2	Pinegrass 8 cm, leaves nodding	10%
Craster Pasture: RU3320-22	475 cattle	594	Sept 8 – Oct 15	NA	Firm soil	Sedge leaves nodding	10%
TOTALS	475	1901					

- note any unfenced private land grazed in common with Crown range
- refer to accompanying Vernon Range Use Plan map

Grazing schedule (2003,2005,2007,2009,2011)

<i>Pasture name</i>	<i>No. of Livestock</i>	<i>AUMs</i>	<i>Period of use</i>	<i>Key Areas as given</i>	<i>Range Readiness Criteria/Plant Community/ Biogeoclimatic Zone</i>	<i>Average stubble height at end of period</i>	<i>Browse use levels</i>
Craster Pasture: RU3320-22	475 cattle	475	June 15 – July 15	NA	Firm soil	Sedge leaves nodding	10%
Hidden Lake Pasture: RU3320-24	475 cattle	475	July 16 – Aug 31	NA	Firm soil Pinegrass, leaves nodding, 4 leaves Black huckleberry MSdm1	Pinegrass, 8 cm, leaves nodding	10%
Crescent Pasture: Ru3320-23	475 cattle	475	Aug 15 – Sept 15	NA	Firm soil Pinegrass, leaves nodding, 4 leaves Black gooseberry Birch-leaved spirea ICHmk1 MSdm2	Pinegrass 8 cm, leaves nodding	10%
North King Edward Pasture: RU3289-13	475 cattle	475	Sept 16 – Oct 15	Not applicable (NA)	Firm soil Pinegrass, leaves nodding, 4 leaves Bluebunch wheatgrass, 20 cm Saskatoon Rose Black gooseberry Black huckleberry IDFxb1 IDFmw1 ICHmk1 MSdm1	Pinegrass, 8 cm, leaves nodding Bluebunch wheatgrass, 13 cm	10%
TOTALS	475	1900					

- note any unfenced private land grazed in common with Crown range
- refer to accompanying Vernon Range Use Plan map

Other comments specific to success of the plan

Forage stubble heights and browse to occur within the Utilization Standards as listed below

GENERAL UTILIZATION MEASURES

Species*	Common Name	Use Level (%)	Range Readiness Criteria	Stubble Height (cm)
Grasses				
<i>Agropyron spicatum</i>	Bluebunch Wheatgrass			
	early spring		20cm/stable soil	13
	late spring		25cm/stable soil	15
	fall		stable soil	9
<i>Agropyron cristatum</i>	Crested Wheatgrass		10cm/stable soil	9
<i>Agropyron subsecundum</i>	Awned Wheatgrass		12 cm	10
<i>Aristeda longiseta</i>	Red Threeawn		12 cm	8
<i>Bromus inermis</i>	Smooth Brome		15 cm	9
<i>Bromus riparius</i>	Meadow Brome		15 cm	9
<i>Calamagrostis canadensis</i>	Reedgrass		15 cm/stable soil	8
<i>Calamagrostis rubescens</i>	Pinegrass		leaves nodding	8
<i>Dactylis glomerata</i>	Orchardgrass		15 cm	9
<i>Elymus cinereus</i>	Basin Wildrye		15 cm	15
<i>Elymus glaucus</i>	Blue Wildrye		15 cm	12
<i>Festuca idahoensis</i>	Idaho Fescue		10 cm	8
<i>Festuca scabrella</i>	Rough Fescue		20 cm	16
<i>Koeleria macrantha</i>	Junegrass		12 cm	10
<i>Oryzopsis asperifolia</i>	Mountain Ricegrass		flowering	
<i>Oryzopsis hymenoides</i>	Indian Ricegrass		flowering	10
<i>Phleum pratense</i>	Timothy		15 cm	9
<i>Poa compressa</i>	Canada Bluegrass		12 cm	8
<i>Poa pratensis</i>	Kentucky Bluegrass		10 cm	8
<i>Poa sandbergii</i>	Sandberg's Bluegrass		8 cm/stable soil	5
<i>Sporobolus cryptandrus</i>	Sand Dropseed		12 cm	10
<i>Stipa columbiana</i>	Columbian Wheatgrass		12 cm	9
<i>Stipa comata</i>	Needle and Thread		12 cm	9
<i>Stipa spartea</i>	Porcupine Grass		12 cm	9
<i>Trisetum spicatum</i>	Spike Trisetum		10 cm	8
Sedges and Rushes				
<i>Carex aquatilis</i>	Water Sedge		25 cm	20

<i>Carex atherodes</i>	Awned Sedge		25 cm	20
<i>Carex rostrata</i>	Beaked Sedge		25 cm	20
Species	Common Name	Use Level (%)	Range Readiness Criteria	Stubble Height (cm)
Sedges and Rushes				
<i>Eleocharis palustris</i>	Spikerush		20 cm	15
<i>Juncus balticus</i>	Baltic Rush		30 cm	10
Shrubs **				
<i>Amelanchier alnifolia</i>	Saskatoon	10	n/a	n/a
<i>Ceanothus spp</i>	Snowbrush	10	n/a	n/a
<i>Cornus stolonifera</i>	Red-osier Dogwood	10	n/a	n/a
<i>Populus tremuloides</i>	Aspen	10	n/a	n/a
<i>Prunus virginiana</i>	Chokecherry	10	n/a	n/a
<i>Rose spp</i>	Rose	10	n/a	n/a
<i>Salix spp</i>	Willow	10	n/a	n/a
<i>Symphoricarpos albus</i>	Snowberry	10	n/a	n/a

* utilization standards are based on combined use by livestock and wildlife and are set to maintain or improve the plant community.

** Overall utilization of shrubs will not exceed 10% of shoots and 20% of leaves.

** This allows for incidental livestock use, with the remainder dedicated to wildlife and plant species maintenance.

Future Range

Improvements _____
