

Ministry of Agriculture, Food and Fisheries

Farage

Prepared by: Tom Pittman District Agriculturist Fort St. John January 1999

Peace Forage Seeding Recommendations

How to Select the Best Forages for Your Situation

Forage variety and species selection has a large impact on the success and profitability of the forage enterprise.

Differences in yield and persistence between varieties usually outweigh the differences in seed costs by a margin of 5 to 10:1. Because new varieties are becoming available all the time, frequent consultation with LOCAL variety test results is highly recommended.

It should be remembered that the true value of a particular forage should take into account the manner in which it is intended to be used. High yielding hay varieties are often not superior in grazing circumstances. There are also notable 'maverick' forage species that are well suited to special circumstances such as water logged soils.

Successful forage establishment is closely related to proper seedbed preparation, prior weed control, proper inoculation of legumes, and soil conditions. A weed content certificate of all seed stocks should be scrutinized prior to purchase and the soil nutrient profile known prior to seeding, particularly where longevity of the stand or satisfactory yields are expected.

Seeding rates given in this factsheet can be reduced under ideal conditions. The higher rates given here cover for a multitude of inadequacies such as less than ideal soil conditions.

There are numerous other forage combinations for special conditions not listed here. See references at the end of this article for other applications.

Perennial Pastures

	Species	varieties	Seeding rate	Comments					
			(lbs/acre)						
Early (Spring) Pastures									
1.	Alfalfa +	Rangelander, Rambler	2	Early spring pasture &					
	Crested Wheatgrass	Parkway, Fairway	7	very dry areas					
2.	Meadow Foxtail	Mountain, Dan (?)	5	Wet, heavy soils					
Season Long Pastures									
3.	Alfalfa +	Rangelander, Peace, Nordica, Anik	3	Better soils					
	Bromegrass	Paddock, Manchar	8						
4.	Alsike Clover +	Aurora, Dawn	2						
	Timothy +	Climax, Tiller, Toro	2	Heavy or acidic soils					
	Meadow Bromegrass +	Paddock, Manchar	4						
	Creeping Red Fescue	Boreal	2						
5.	Alfalfa +	Rangelander, Peace, Rambler		Soil pH>5.9					
	Bromegrass +	Paddock, Manchar	7						
	Creeping Red Fescue	Boreal	2						
6.	Orchardgrass +	Kay, Arctic, Okay	5	Clay soils mix					
	Bromegrass +	Paddock, Manchar, Rebound	4						
	Timothy +	Tiller, Climax, Toro	2						
	Alsike Clover	Aurora, Dawn	2						
7.	Alfalfa +	Peace, Rangelander, Roamer	2	Fall production is best					
	Meadow Brome +	Paddock, Fleet	6	when this is pastured					
	Fescue Creeping Red	Boreal	3	midsummer & allowed					
	or Tall Fescue	Courtney	6	a rest/growth period					
8.	Alfalfa +	Rangelander, Peace, Nordica	3	-					
	Timothy +	Climax, Tiller, Toro, Bottnia I	I 2						
	Brome	Manchar, Paddock, Fleet	7						
Horse Pastures									
9.	Timothy +	Toro, Tiller, Climax	2	Do not use					
	Creeping Red Fescue +	Boreal	2	Alsike Clover					
	Bromegrass +	Paddock Carlton	5	in horse					
	White Clover	(low growing type)		pasture mixes					
	or Alfalfa	Rangelander, Roamer	3						

Meadow Bromegrass is preferred over Smooth Bromegrass for rotational grazing situations, but for hay, Smooth Bromegrass is the preferred species.

Birdsfoot Trefoil should be considered for replacing half the legume portion by weight in the seed mix for heavy soils when bloat is a potential problem.

Use Orchardgrass has reduced winter hardiness in conditions where there may be bare ground exposure or icing through the winter (example: hilly conditions).

Annual Crops And Annual Pastures

	Species	varieties S	Seeding ra	ate Comments				
1			e)					
Spring or Fall Supplemental Pastures								
1.	Spring Oats	Jasper, Foothill	100	Graze as early as when				
	Later Oats	Waldern, Cascade, Calibre or	•	individual seed rows are no				
		Mustang		longer visible				
2.	Fall Rye - (fall seeded)	Kodiak, APPMN-1(?)	80	Seed by Aug 15, fall graze if greater than 6 inches top growth				
3.	Fall Rye - (spring seeded)	Kodiak, Muskateer	95	Best to graze hard, rest and regraze. Earlier pasture availability if add 25 lbs/acre of oats or barley to this				
4.	Barley +	Brier, Johnson	65	For spring/summer				
	Oats	Foothill, Jasper	45	grazing				
Swa	th Grazing							
5.	Oats	Waldern, Mustang, Cascade o Caliber	or 90	Seed by mid-June, swath mid- October depending on conditions				
6.	Oats +	Waldern, Mustang	50	Increased seeding rate for				
	Barley	Brier, Johnson	50	mix grazing stands				
Con	ibination Uses							
7.	Barley +	Kasota, AC Lacombe	80	Silage Barley at early dough				
	Italian Ryegrass	Maris Ledger	12	stage, then, fall pasture ryegras				
8.	Fall Rye +	Kodiak, Prima, Muskateer	60	Combo gives extended				
	Barley	Brier, Johnson	55	pasture (earlier & later)				
	or Oats	Wardern, Foothill						
Gree	enfeed & Silage							
9.	Oats	Mustang, Foothill, Cascade, Jasper, Waldern	90	Kasota barley yields well but is rough awned and best				
10.	Barley	Kasota, AC Lacombe, Johnson		harvested early as silage				
11.	Oats +	As #6 above	45					
	Barley		45					

Use Interseeding ryegrass with other cereals requires ample soil moisture conditions. Greatest success occurs when the cereal portion is harvested early for silage and the ryegrasses regrowth is used for fall pasture. Italian rather than Westerwold types are preferred in this region.

Perennial Hay or Perennial Silage

Species varieties Seeding rate Comments

Combinations of spring and winter cereals can be used to extend the forage availability over a longer grazing period due top differences in the maturity dates.

When choosing barley varieties for forage, use smooth awned types to eliminate the risk of mouth and throat sores in livestock.

Smoothed awned barley varieties will usually outyield oats in total nutrient yield when cut for silage except where poorly drained soils are a concern. In addition, barley is usually earlier maturing. However, the taller, non lodging oat varieties (*such as Wardern or Mustang*) may provide better late harvested greenfeed yields than the shorter earlier maturing barley varieties (*such as Kasota, Brier or Johnson*).

		(lbs/acre)			
1.	Alfalfa	Peace, Rangelander, Heinrichs, Nordica	10	Soil pH>5.9	
2.	Alfalfa +	Peace, Nordica, Rangelander	7		
	Smooth Brome	Carlton, Manchar	5		
3.	Alsike Clover +	Aurora, Dawn	4	Areas subject	
	Timothy +	Climax, Farol, Tiller	2	to flooding	
	Reed Canary	Palaton, Rival	4		
4.	Red Clover +	Altaswede	3	Best suited for clay soils	
	Timothy +	Climax, Bottnia II, Farol,	3	or where alfalfa stands	
		Tiller		_	
	Bromegrass +	Carlton	3	traditionally have done	
	Alsike Clover	Dawn	3	poorly	

GENERAL COMMENTS:

- Peas are susceptible to drought and may not compete well when interseeded with other cereals or weeds. We recommend combinations be used only in conditions of superior soil moisture and that the peas are well inoculated.
- Red Clover single cut varieties are generally more winter hardy regionally than are double cut varieties.
- Increase seeding rate by at least one third if broadcasting the seed and harrowing it into the soil.
- When using propriety coated seeds increase the seeding rate to account for reduced numbers of the coated seed per round.
- Avoid combining legume seed with granular fertilizers in the same seed row as reduced inoculation and seedling toxicity may result.
- Increased productivity and persistence of all forage varieties used for hay production the BC Peace is closely related to adequacy of replenishing crop nutrients removed through crop harvesting. Nitrogen and phosphorus commonly become depleted and other nutrient deficiencies such as potassium and sulphur are not uncommon.
- ♦ Other sources of information:
 - 🤝 Forage Seed Recommendations for Reclamation Purposes on ALR Land In Northeastern British Columbia
 - Annual Field Crop Variety Trial Results from the BC Ministry of Agriculture
 - Urrent Listing of Seed Trade Companies Active in the Peace Region
 - Spring Forage Associations Variety and Agronomic Trial Results

Top Forage Varieties From Test Trials and Field Observations

ALFALFA - Peace, Rangelander, Rambler, Nordica, Heinrichs, Roamer

ALSIKE CLOVER - Aurora, Dawn

ANNUAL RYEGRASS - Maris Ledger, Aubade

BARLEY - Kasota, AC Lacombe, Johnson, Brier

BIRDSFOOT TREFOIL - Upstart, Leo

CREEPING RED FESCUE - Boreal

CRESTED WHEATGRASS - Fairway, Parkway

FALL RYE - Muskateer, Kodiak

MEADOW BROMEGRASS - Paddock, Fleet, Regar

 $REED\ CANARYGRASS\ -\ Palaton,\ Rival$

RED CLOVER - Altaswede

SMOOTH BROMEGRASS - Manchar, Carlton,

Bravo

TIMOTHY - Tiller, Climax, Tiiti, Bottnia II,

Richmond

TALL FESCUE - Courtney

OATS - Waldern, Mustang, Cascade, Jasper, Foothill ORCHARDGRASS - Arctic, Kay, Okay PEAS - Grande, Patriot, Carneval, Radley