

## Species For Particular Uses

A theme of this publication is that each pasture species occupies a particular niche where it does better than others which might be used. In so doing each also fills a particular role in the juggling act between feed supply and animal requirements. We have stressed the need to identify the critical stock feed periods, and then to establish special purpose pastures to satisfy these requirements.

In Table 3 we group pasture species according to their **value** for particular critical feed periods. This includes, a judgement on ranking of what are considered to be the best species for that use, based on our present knowledge. A more detailed description of each species is given in the last section.

**Table 3:** Most suitable farm management role for species and cultivars in South Island hill and high country. Species and cultivars are ranked approximately in order of merit within each group

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### Autumn Saved Standing Winter Feed

#### Low To Moderate Soil Fertility

Grasses>legumes

Cocksfoot>browntop>sweet vernal> tall oat grass

Perennial lupin>alsike clover

#### High Soil Fertility

Grasses>legumes

Cocksfoot > tall fescue > perennial ryegrass > timothy > prairie grass > phalaris

Red clover > alsike > (lotus, lucerne, birdsfoot trefoil and white clover, seldom suitable in this role past May)

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### Late Summer/Autumn

#### Low Soil Fertility

Perennial lupin > suckling clover

Chewings fescue > blue tussock > native tussocks > danthonia > sheeps sorrel > yarrow.

#### High Soil Fertility

Lucerne > red clover > white clover

Cocksfoot > tall oat grass > tall fescue > perennial ryegrass > timothy > smooth brome > prairie grass

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### Hay or Silage - Dryland

#### Moderate To High Soil Fertility

Lucerne > red clover > alsike clover and possibly birdsfoot trefoil > timothy > cocksfoot > mountain brome > prairie grass > tall fescue > phalaris

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### Special Purpose Lamb Fattening Feed

#### High Soil Fertility

Red clover > lucerne > white clover > chicory > mountain brome > prairie grass > hybrid ryegrass > timothy

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### Spring/Early Summer

#### Low Soil Fertility

Perennial lupin>suckling clover>haresfoot clover>red clover>zigzag clover.

Browntop>sweet vernal>chewings fescue> blue tussock >timothy>yorkshire fog>native tussocks>danthonia>sheeps sorrel

#### Moderate Soil Fertility

Alsike clover > red clover > birdsfoot trefoil > perennial lupin > sweet clover > lotus • moist acid soil > Caucasian clover > crown vetch > subterranean clover

Cocksfoot > tall oat grass > smooth brome > Yorkshire fog > crested dogstail > silver tussock > pubescent wheat grass.

#### High Soil Fertility

White clover > lucerne > alsike clover > red clover

Cocksfoot > perennial ryegrass (endophytic) > tall fescue > phalaris > hybrid ryegrass > mountain brome > prairie grass

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### Special Purpose Winter Crops

#### Moderate Soil Fertility

Ryecom > oats

#### High Soil Fertility

Turnip>swede>kale>greenfeed lupin

Annual ryegrass > barley (Claremont)

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### Late/Winter/Early Spring Special Purpose Feed

Ryecom>annual ryegrass>short rotation ryegrasses

Lucerne, for high soil fertility (needs long spelling). Sheeps bumet (low to moderate soil fertility).

Subterranean clover and tares (lowest altitude warm country)