

# Appendix 5 – Restock prescriptions and glossary

## Glossary

The tree species codes used in this LMP.

### Broadleaves

- CAR: common alder
- POK: pedunculate oak
- SOK: sessile oak
- ASP: aspen
- PBI: downy birch
- SBI: silver birch
- BI: downy or silver birch
- WCH: gean or bird cherry
- HOL: holly
- ROW: rowan
- SYC: sycamore
- WLW: goat or grey or eared willows
- HAZ: hazel
- NMB: native mixed broadleaves
- MB: mixed broadleaves (*some or all non-native*)

## Conifers

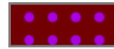
- SP: Scots pine
- JUN: juniper
- LP: lodgepole pine
- DF: Douglas fir
- GF: grand fir
- NF: noble fir
- SF: silver fir
- SS: Sitka spruce
- NS: Norway spruce
- OMS: Serbian spruce
- WRC: western red cedar
- EL: European larch
- HL: hybrid larch
- JL: Japanese larch
- WH: western hemlock
- MC: mixed conifers
- XC: other conifers (pure stands or alternative single species in SP, BI, MB mixture)

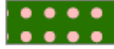
# Restocking/Regeneration species composition prescriptions and management objectives

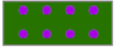
LMP **Maps 6a** and **6b** illustrate areas scheduled for restocking/regeneration in the next 10 years and into Phase 3 (for coupes felled in the late stages of the Plan).

**Maps 7a** and **7b** show prescribed woodland types planned for LMP areas for restocking and – for PAWS areas in particular – restructuring. These prescriptions also apply in defined regeneration coupes where the current seed tree resource dictates follow-on recruitment. Regeneration may be enriched (supplementary planting) with missing component species to achieve the prescribed woodland type when monitoring and stocking density assessments dictate. The symbology used for the prescribed woodland types on the maps is used in the table below. The table also gives each woodland type a Mixture Number which is then used in Table 6 in the LMP main document (**section 2.5**).

The following table details restocking prescriptions applied (or anticipated - in the case of regenerating coupes) in re-establishment for all woodland types in the LMP: native/non-native woodland and for productive and conservation objectives (or both).

| Mixture Number | Map Symbol                                                                        | Main Species Components | Stocking Density & Management Objectives                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mix 1          |  | SP/SBI                  | Minimum 1,600 stems per hectare.                                                                                                                    | <p>Objective: native woodland for biodiversity to achieve sympathetic, naturalised upland character.</p> <p>Managed with minimum intervention upon establishment (non-native removal of seedbed non-native regeneration).</p> <p>Relevant upland NVC woodland types envisaged are:</p> <p>W18 – SP with SBI/PBI &amp; JUN on heath. Some/few localised ROW, ASP, WLW, SOK.<br/><i>This is the archetypal Caledonian pine woodland.*</i></p> <p>W17, 16 &amp; 11 – SOK and PBI/SBI. Some localised ROW, HOL, WCH, HAZ, CAR, WLW &amp; ASP<br/><i>Dependent on dominant species W11 &amp; W17 can be either upland oak- or birchwood.</i></p> <p>W4 – Grey/eared WLW with PBI. Possible CAR, ROW, SOK if fertility/drainage allows.<br/><i>A shrub willow dominant scrub woodland on impoverished/marginal sites or downy birch-dominant wood on exposed, gleyed and peaty soils and treelines.</i></p> |
| Mix 2          |  | NMB                     | Variable density & intimate species mixtures to match topography, localised soils, waterbody proximity.                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mix 3          |  | NMB/SOK                 | Densities possibly as low as 500 stems/ha upon prior application and approval to Scottish Forestry (i.e. wet, infertile peat-edge NVC W4 woodland). |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mix 4          |  | BI/NMB                  |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mix 5          |  | PBI/NMB                 |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mix 6          |  | NMB/SP                  |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mix 7          |  | CAR/SOK/BI              |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mix 8          |  | SOK/NMB                 |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mixture Number | Map Symbol                                                                        | Main Species Components | Stocking Density & Management Objectives                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| Mix 10         |    | SP/XC                   | Minimum 2,500 stems per hectare.<br>Uniform density.                         | <p>Objective: High quality timber production (high sawlog component but early short roundwood or birch fuelwood thinnings). Species mixtures give tree health and growth performance insurance as well as (where SP and SBI present) increased ecological fit.</p> <p>Stocking density will ensure potential for timber quality. Subsequent operations such as singling and respacing might take place to further improve the crops. Some NMB component for non-productive areas or margins (rides/riparian).</p> <p>Intended for continuous cover uniform shelterwood management.</p> <p>Note: XC/OG includes Lon Mor (1920's afforestation trial plots) for long term retention and p2015 WRC, SF, OMS, NF performance trial plots.</p> |
| Mix 11         |    | SP/NS                   | Typical compositions:<br>NS/SP/NMB/OG: 40/40/10/10                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 12         |    | NS/SP                   | SP/XC/SBI: 35/35/20/10                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 13         |    | NS/DF                   | SP/NS/NMB/OG: 40/40/10/10                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 14         |    | XC                      | NS/DF/SBI/OG: 35/35/35/10<br><br>XC/OG: 80/20                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 15         |    | SS/SP                   | Minimum 2500 stems per hectare.<br>Uniform density.                          | <p>Objective: Mainly short roundwood and biomass but with as large a percentage of sawlog as possible.</p> <p>In SS/SP: pure SS matrix with pure SP stands in driest zones.</p> <p>In SS/LP: LP as nurse species: Triplet (3 x 3) intimate 'nutritional mix' to ensure no fertiliser requirement for growth and to overcome heather where prevalent in localised areas.</p> <p>No subsequent thinning envisaged.</p>                                                                                                                                                                                                                                                                                                                      |
| Mix 16         |    | SS/LP                   | Typical compositions:<br>SS/SP/BI/OG: 50/20/10/20<br><br>SS/LP/OG: 50/50/<10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 17         |    | SP/BI                   | Minimum 2,500 stems per hectare.<br>Uniform densities.                       | <p>Objective: Softwood timber (sawlog and short roundwood or fuelwood thinnings). Broadleaves provide early biodiversity and resilience in case of conifer resilience issues.</p> <p>Stocking density will ensure potential for timber quality.</p> <p>Subsequent operations such as singling and respacing might take place to further improve the crops. Thinning regime imposed that favours most valuable, best performing species in matrix.</p>                                                                                                                                                                                                                                                                                     |
| Mix 18         |   | SP/NMB                  | Typical compositions:<br>SP/BI or NMB/OG: 60/30/10                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 19         |  | MC/NMB                  | MC/NMB/OG: 80/10/10                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 20         |  | LP/PBI                  | LP/PBI/OG: 45/45/10                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mix 21         |  | BI/XC                   | BI/MC/OG: 45/45/10                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mixture Number | Map Symbol                                                                          | Main Species Components | Stocking Density & Management Objectives                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| Mix 22 |  | BI/SP   | <p>Minimum 1,800 stems per hectare.<br/>Randomised density.</p> <p>Typical composition:<br/>SBI/SP/NMB/OG: 60/10/10/20 to<br/>40/20/10/30</p> | <p>Objective: Conservation &amp; visual aesthetic (Loch Ness-side upper tree-line woodland) with potential future fuelwood potential and SP future seed source/ecological benefit.</p> <p>No thinning envisaged. Cleaning (non-native seedbed) required upto thicket stage.</p> <p>Possible felling if economically viable at the time of felling of down-slope mature productive conifer woodland - else long term retention for biodiversity/aesthetics.</p> |
| Mix 23 |  | SP/SOK  | <p>Minimum 2200 stems per hectare<br/>Uniform density primary species<br/>matrix. SOK clusters at final spacing.</p>                          | <p>Objective: Quality soft- and hardwood timber (some biomass from early thinnings) and a long term high quality oak timber crop.</p>                                                                                                                                                                                                                                                                                                                          |
| Mix 24 |  | SBI/SOK | <p>Typical composition:<br/>SP/SOK/NMB/OG: 60/20/10/10</p> <p>SBI/SOK/NMB/OG: 60/20/10/10</p>                                                 | <p>Stocking density will ensure potential for timber quality. Subsequent operations such as singling and respacing might take place to further improve the crops.</p> <p>Primary species managed under uniform shelterwood continuous cover with increasing quality of thinned product from successive interventions. Thinning also to tend and promote SOK – singled for best quality stems over time.</p>                                                    |
| Mix 25 |  | SOK/SBI | <p>Minimum 3,000+ stems/hectare.<br/>Uniform density.</p> <p>Typical composition:<br/>SOK/SBI/NMB/OG: 40/40/10/10</p>                         | <p>Objective: High quality hardwood timber objective.</p> <p>High maintenance (cleaning) requirement upto thicket stage.</p> <p>Stocking density will ensure potential for timber quality. Subsequent operations such as singling and respacing might take place to further improve the crops.</p>                                                                                                                                                             |