

Strathspey Land Management Plan 2021-2031 Appendix 7: Management prescriptions on the National Forest Estate- Native Woodland

Soil	Soil Types	Characteristics	Aim*	Species Prescription for Habitat Typ
Group	Relevant			
1	Brown Earths	Soils with typically good aeration and drainage throughout the profile and well-incorporated organic matter. These soils are mainly * fertile and allow deep rooting. Likely vegetation to be encountered includes fine grasses, holcus, bracken, bramble, foxgloves, violets and a diverse range of herbs. * However Podzolic Brown earths where nutrients have been leached are "Very Poor"	NW	W19 Juniper wood with sorrel on 1, 1u, 1z and 1b from 22 W18 Scots pine with heather on 1z in cool to warm W11 Upland oak-birch with bluebell on 1, 1u and 1z in o
3 & 4	Podzols & Ironpan Soils	Developed on Acid * soils with high rainfall where nutrients are flushed into the lower horizons of the soil profile. Frequently induration or an impenetrable pan will prevent good drainage, resulting in a need to break this impediment with suitable cultivation that will allow freer draining and greater rooting depth. Vegetation common to these soils are ericaceous plants, grasses including deschampsia flexuosa, nardus, carex and molinia. Light bracken and feather mosses may also be present. * NOT fertile soils	N W R	W18 Scots pine with heather on 3, 3m, 4, 4z and 4b No 18. W19 juniper wood with sorrel on 3 and 4b Possible W17 Upland oak-birch with blaeberry on 3s and 3ms Ma
5	Groundwater Gleys	Dominant vegetation is commonly Deschampsia caespitosa, Holcus, salix spp and herbs. Occuring where a shallow water table causes waterlogging and therefore subject to compaction and poorly oxygenated. The soil is permeable but is affected by a fluctuating ground-water table. Moderate nutrient availability.	NW RW	W7 Alder-ash with yellow pimpernel on 5 and 5f Cool to Warm. Sheltered to Moderatedly exposed. (DAN
6	Peaty Gleys	Very Poor to medium nutritional availability, these soils are indicated by Molinia, Calluna and Erica spp, with sphagnum prevalent in the North and West. High winter water table can be expected and good drainage will be required to achieve best results.	NW	W18 Scots pine with heather on 6z "moist" to "fairly dry W4 Birch with purple moor-grass on 6 and 6b. Cool to N
7	Surface Water Gleys	 Differing from groundwater gleys in that waterlogging is caused not by a high water table, but by induration preventing adequate drainage leading to a seasonally fluctuating water table. Resulting anaerobic conditions will restrict rooting. Indicative vegetation includes Holcus, Juncus, Nardus and Deschampsia <i>caespitosa</i>. Again poor to moderate nutritional availability can be expected. Drainage will be required along with micro site cultivation such as mounding. 	NW	W11 Upland oak-birch with bluebell on 7b W18 Scots pine with heather on 7z possibly on margins W7 Alder-ash with yellow pimpernel on 7, 7b and 7z Cc <16)
8	Flushed Basin Bogs	Juncus spp are prevalent. A shallower peat type, nutrient rich and containing some mineral grains. Peat is black in colour.	NW	W4 Birch with purple moor-grass on 8b and 8c.
9	Molinia Bogs	Often existing on hillsides where flushing is more pronounced. Moderate nutrition available.	NW OG	W4 Birch with purple moor-grass on 9a, 9b, 9c and 9d between productive forest blocks and peatland restorat 9e Trichophorum, Calluna, Eriophorum, Molinia Bogs wi
10	Unflushed Flat or Raised Bogs	Sphagnum dominated bogs, formed as peat levels rose to form a dome, reliant on precipitation for moisture and nutrients. Mineral grains are absent and the peat is reddish-brown and tends to be deeper.	OG	10b Upland flat or raised bogs – priority areas for peatre
11	Unflushed Blanket Bogs	Calluna, Eriophorum, Trichophorum Bogs including the hill peats located on upland plateaux and hillsides deeply dissected by burns.	OG OG	11a A rare peatland type mainly restricted to the driest 11b,c,d Unflushed blanket bogs - priority areas for peat
14	Eroded Bogs	Very poor nutritional status characterised by bog asphodel, deer grass, bog cotton etc. Can be dominated by either deep and frequent eroded areas (haggs) or frequent pools of standing water (flows). Very deep peat.	OG OG	14 & 14h Hagged bogs – unsuitable for forestry or woo 14w Pooled bogs – common across Northern Scotland f
15	Littoral Soils	Formed on coastal sands and shingles, such as the dunes found at Morrich More near Tain. The category is split into shingle (15s), dunes (15d) and then sands with varying water table depths (15e,w,g,i). These sands can be distinguished by various levels of mottling. Coastal grasses and heathland plants predominate.	NW	W16 Lowland oak-birch with blueberry limited to "Warn

ypes Predominating in IRS Forest District om sheltered sites up to sub alpine areas with DAMS < m with DAMS < 18 in cool to warm with DAMS < 18 $\,$ Not in Sub-alpine climate, (Cool to Warm) DAMS < le up to Sub-alpine zone Mainly in Lower Cool to warm climate zone. DAMS < 18. AMS <16) dry″ o Warm. DAMS < 18. ins leading to drier knolls. Cool to Warm. Sheltered to Moderatedly exposed. (DAMS Ad suitable for the transitional areas at the margins ration sites. will not be planted or restocked - restoration of peatland. atrestoration. est eastern uplands eatland restoration oodland – peatland habitat d forming the 'Flows' - peatland. arm" climate

*NW - Native Woodland Expansion / RW - Riparian Woodland Expansion / OG - Managed Open Ground e.g. peatland restoration

NB – These prescriptions must be adopted within the local context set out in the main body of this FDP. Climate must be included as a determining factor in final species selection.

- Planting will generally become a mosaic of the woodland types recommended above, dictated by local conditions and agreed after "75% Site Completion Visits"
- Particular note should be made of the inadvisability of planting the peatland types 10 14 that may predominate on marginal FD sites
- No native woodland type likely to be suitable on sites wetter than SMR "Very Moist" and veg indicating SNR < 4.5
- Due to Chalara fraxinea no new planting / restocking of Ash will be undertaken, this will be reviewd with new guidance from Forestry Commission Plant Health.
- Natural regeneration of Ash will be accepted where it occurs.

References:

Kennedy F (2002) The Identification of Soils for Forest Management, Edinburgh: HMSO

Pyatt, G; Ray, D; Fletcher, J (2001) An Ecological Site Classification for Forestry in Great Britain; Bulletin 124, Edinburgh: FCS

Rodwell J.S. and Paterson G.S. (1994) Creating New Native Woodlands; Bulletin 112, London: HMSO

Thompson, R (2009) Management of PAWS on the National Forest Estate in Scotland, Edinburgh: FCS