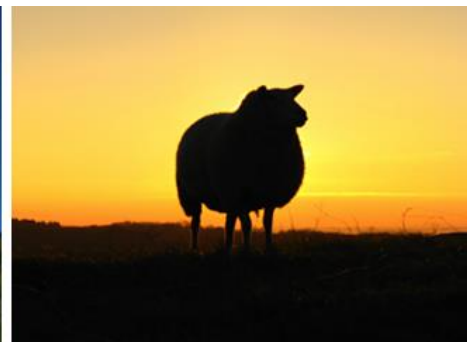




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Woodland management & Design

Simon Jacyna, Senior Forestry Consultant



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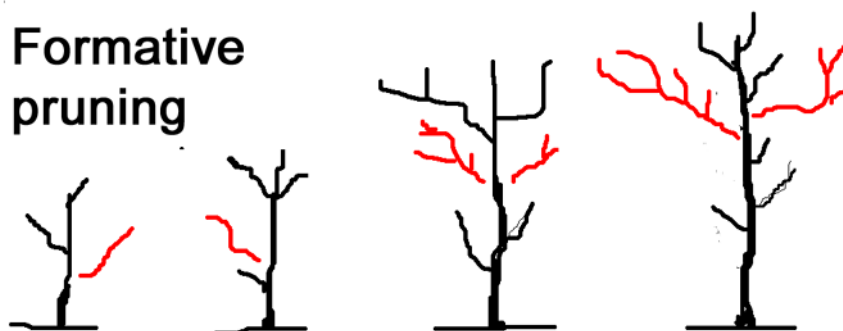


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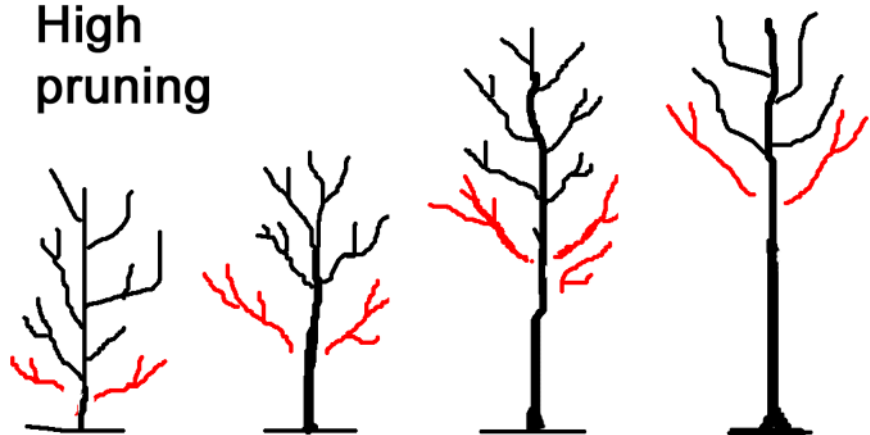
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Formative pruning



Unpruned

High pruning



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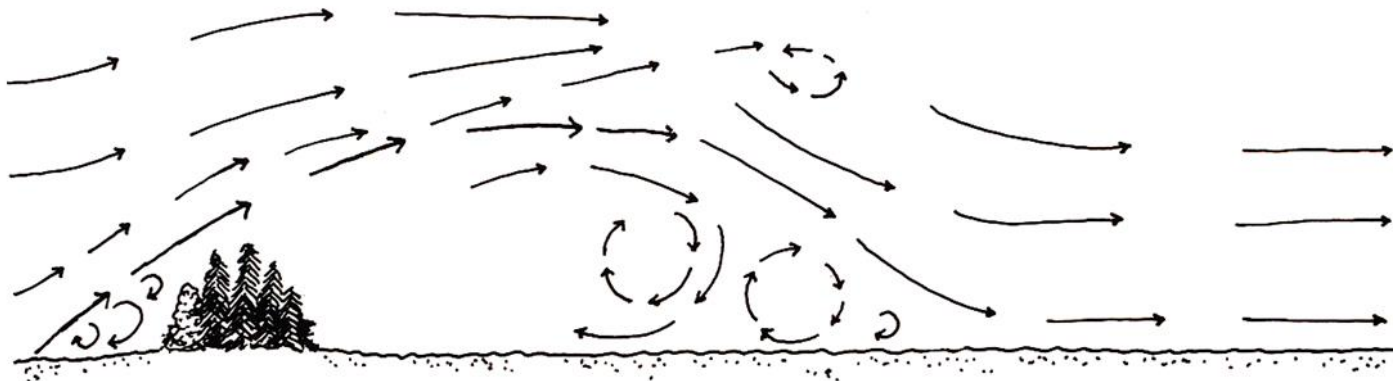


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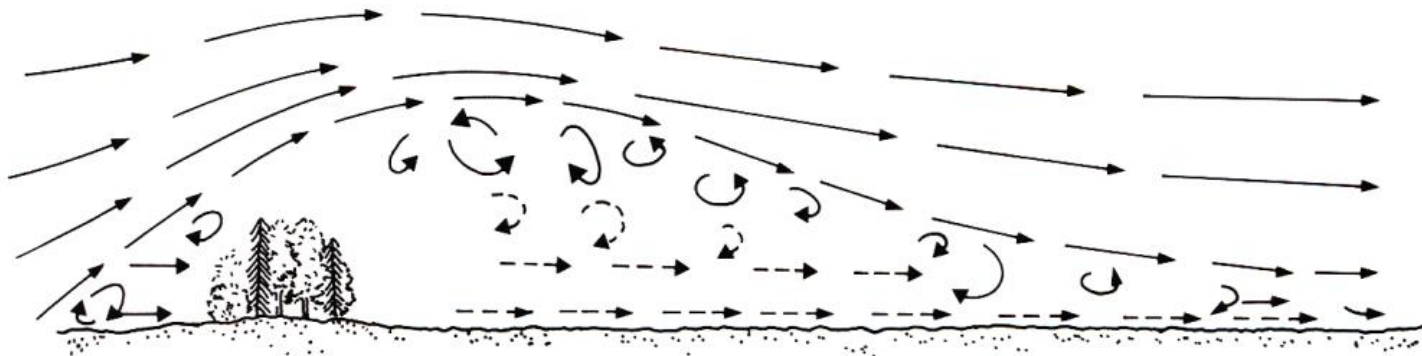
Shelter Design - Windshield

- Virtually impermeable woodland (<40% porosity)
- Reduces wind speed by up to 90%
- Wind speed reduction up to 10 times tree height
- Maximum shelter within 3 to 5 times tree height
- Completely stops wind within small area
- Best for livestock protection
- High turbulence in field



Shelter Design - Windbreak

- Permeable woodland (40 – 60% porosity)
- Reduces wind speed by up to 70%
- Wind speed reduction 20 – 30 times tree height
- Achieves reduced wind speeds across large area
- Little turbulence, well above ground
- Best for crops and silage





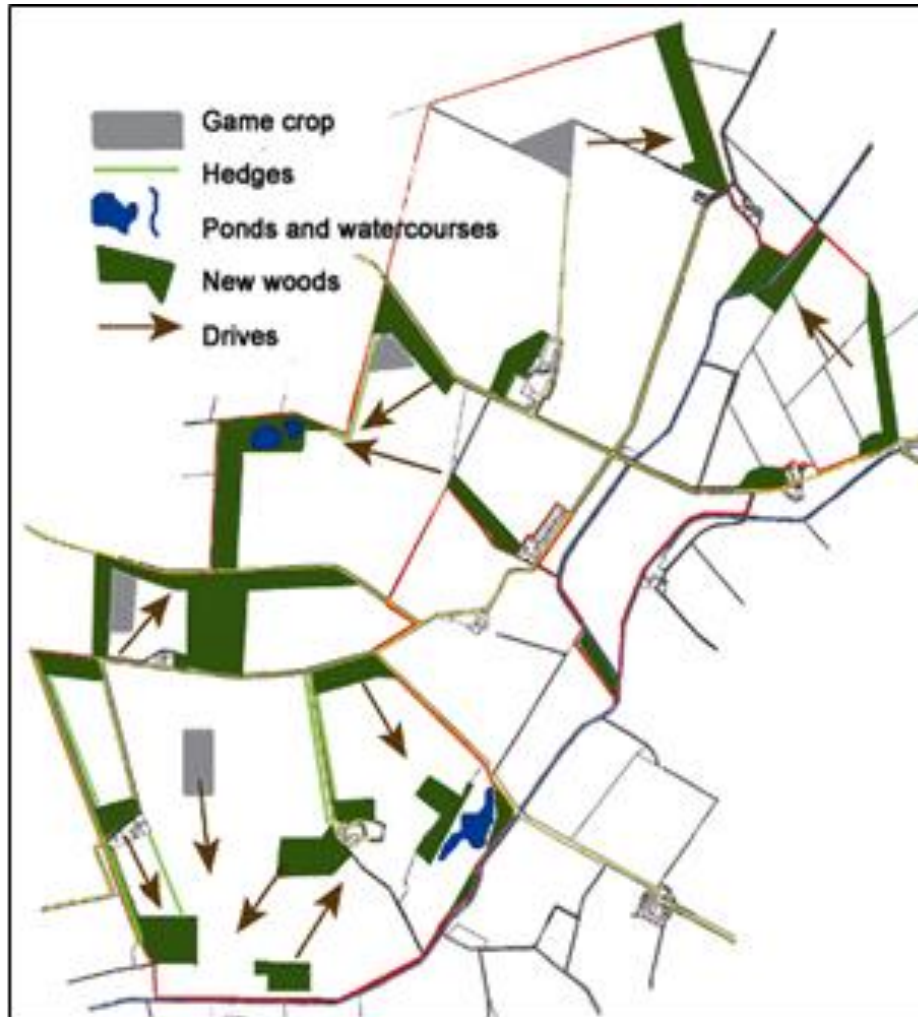
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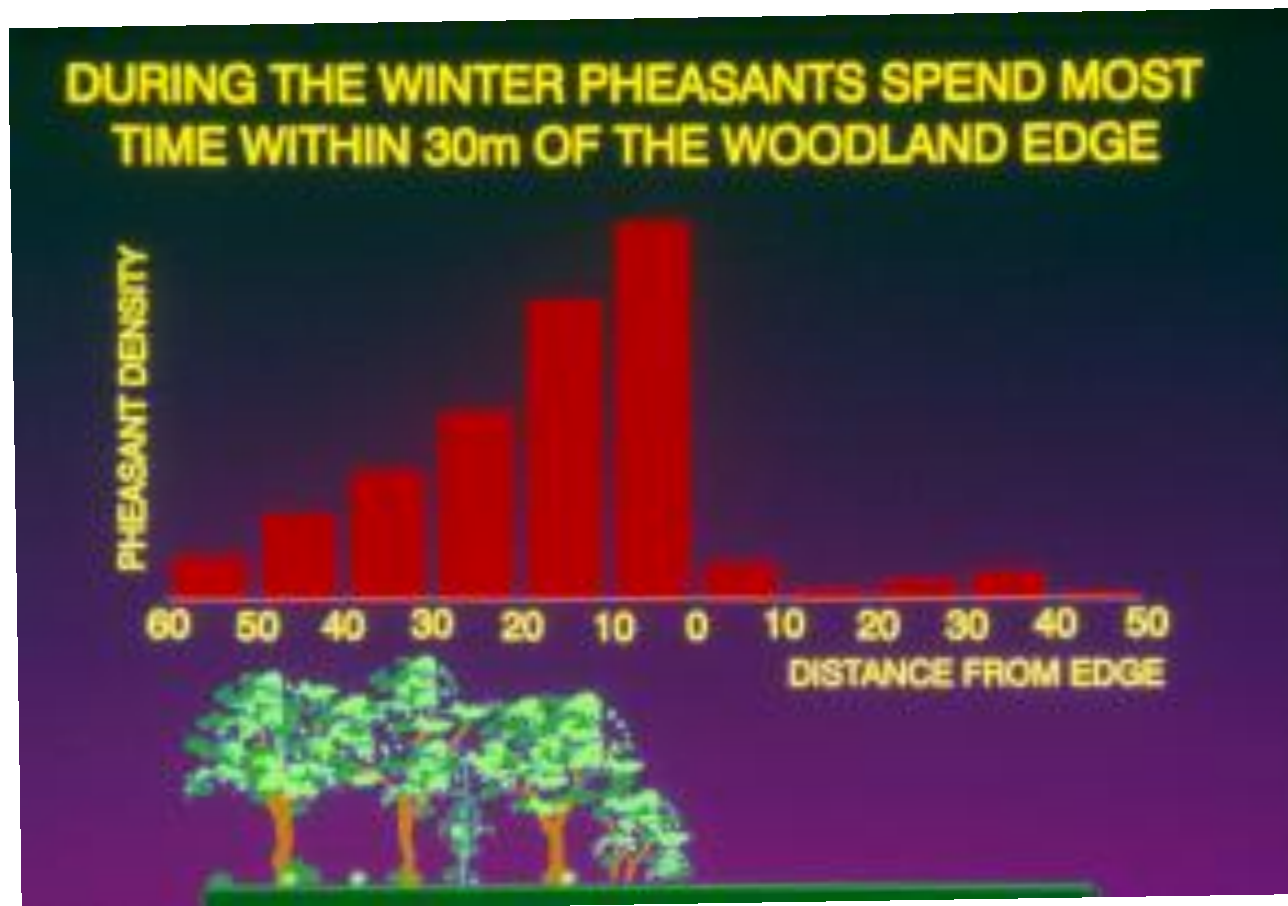


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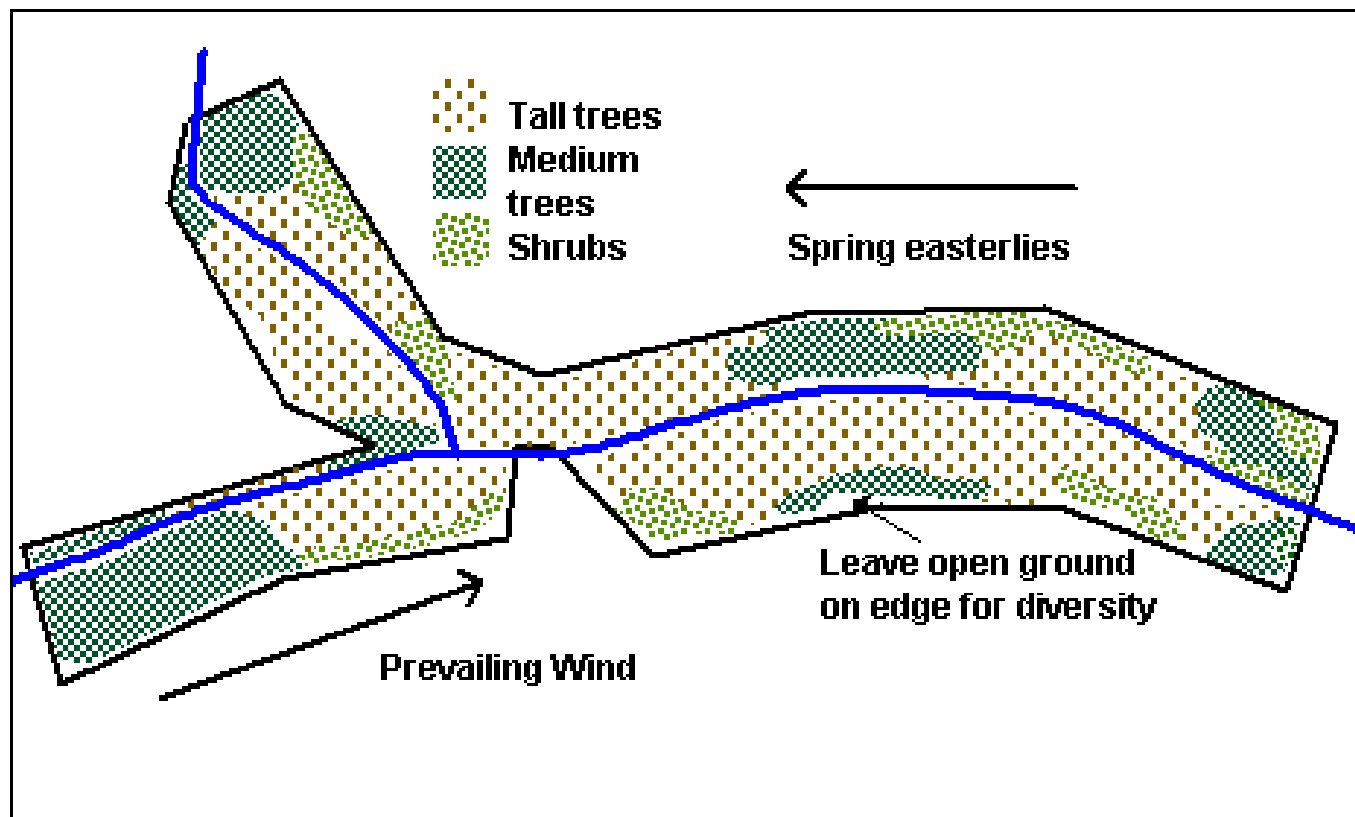
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Species proportions

	Main Conifer	Secondary Conifer	Broadleaf	Open ground
Timber	60%	20%	10%	10%
Wildlife	-	-	85%	15%
Game Covert	20%	20%	50%	10%



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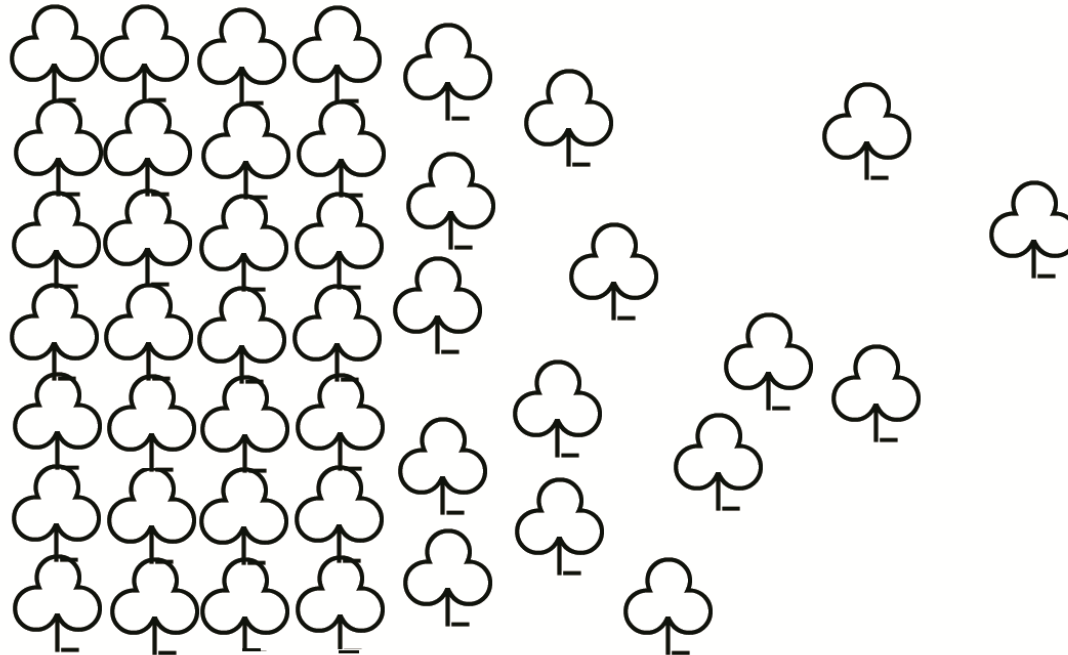


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Edge design





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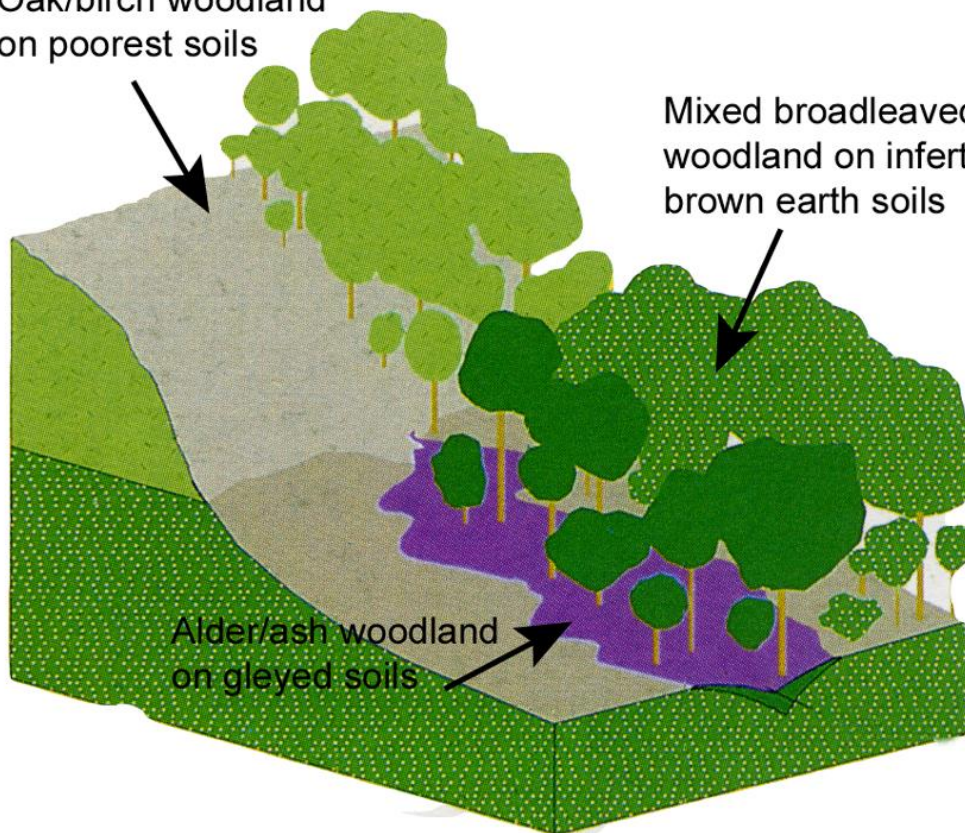


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Oak/birch woodland
on poorest soils

Mixed broadleaved
woodland on infertile
brown earth soils

Alder/ash woodland
on gleyed soils



Woodland management grants



- Forest Infrastructure
- Forest Planning
- Restructuring (restocking)
- Public access
- Habitats and species
- Predator control
- Deer management
- Low impact silvicultural systems