



**Location:** Mid Cornwall **Date of report:** 24.11.19

Management of a mixed broadleaved plantation to improve health and vitality of key species, to enhance species diversity, age diversity and wildlife value of each habitat. Considering the canopy, shrub and ground structure of each area of the woodland.

We have achieved a good mix of young, middle aged & mature trees with some further standing deadwood. We have carefully selected felling and thinning of trees to reduce competition for a good mix of key species. Improvement has been made to a variety of habitats to benefit biodiversity. Some areas have been opened up more than others, allowing light to penetrate, encouraging better ground flora, shrub layers and regeneration. The Bryophyte, Lichen & epiphyte community were also well considered throughout. We have managed all arisings by varying our windrows and stacking of cordwood lengths in areas where it will avoid harming established or potential ground flora. Rhododendron not managed at this stage.



Day/Date	Pers ons	Woodland Habitat/species	Management taken	Comment	Map
Day 1 - 03/10/19	2	Central Southern section. Canopy - Sycamore, Beech, Oak, Douglas fir, Sweetchestnut, stand of young Ash Sub canopy – Dense Holly. Some Hazel,	Thinned Holly, felled semi mature sycamore and some beech. Mostly to give Oak, Ash and mountain ash space. Ring barked some trees creating standing deadwood & to benefit others. Windrowed all brushwood	Future Holly management where it becomes invasive/dominant. Monitor group of Ash for Ash Die-Back (Hymenoscyphus fraxineus)	



# 7 hectare - Broadleaved - Schedule of work



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<b>Day 2 – 04/10/19</b>	<b>2 +TC</b>	From main track fork, heading south east on lower trail. Approx 8m each side of trail. Canopy – Beech, Oak, sycamore, Ash Subcanopy – Holly, Hazel, young trees of above	Opened up ride, felled some of the beech and sycamore, opening up canopy and making room for younger trees and hazel. Chipped brushwood to keep windrowing from covering areas of light created.	Rhododendron and bramble will need to be managed to ensure more desirable woodland flora are able to thrive to encourage invertebrates and birds.	
<b>Day 3 – 10/10/19</b>	<b>3</b>	South West Section Canopy – Mostly Sycamore plus Beech, Sweetchestnut, Oak, Sub canopy – Holly, Hazel, rhododendron, young trees of above. Some interesting bryophyte areas. Also large area of Hookeria lucens	Very few Oak with poor regeneration. Opened up a small glade with stream running through it, felled mostly young to mature sycamore, to increase light attenuation to woodland floor – hopefully encouraging better herb/shrub layer to develop. Thinned holly, young beech and douglas fir. Windrowed all brushwood	Rhododendron needs removing throughout. The stream is both attractive and provides a different habitat not seen elsewhere in the wood - maintain area around stream to benefit herbaceous plants that were being shaded out by trees. However, areas were also left for bryophyte populations.	
<b>Day 4 – 17/10/19</b>	<b>2</b>	South of lower track. Canopy - Beech, Oak, Douglas fir, Sycamore Dense sub canopy of Holly.	Clearing mostly Holly and Beech which is dense in this area, felled some sycamore. Windrowed all brushwood. Ringbarked Douglas Fir	Holly in this area had become invasive and prevented other desirable plants from succeeding. All of the cut holly is likely to regenerate and need	



				controlling further (treating to prevent regrowth should be considered).	
<b>Day 5 – 18/10/19</b>	<b>2</b>	South East of upper and lower track. Canopy, Beech, Oak, Ash, Scots Pine, Sweetchestnut Dense sub canopy of Holly.	Mostly managing holly and windrowed throughout. Felled beech because they were becoming etiolated, felled some sycamore. Ringbarked beech.	Holly in this area had become invasive and was preventing other desirable plants from succeeding. All of the cut holly is likely to regenerate and needs further control.	
<b>Day 6 – 24/10/19</b>	<b>2</b>	3x areas, Back to <b>SE corner</b> , canopy, Oak, Beech, Sycamore, Douglas fir. Sub canopy, Hawthorn, Holly, Hazel  <b>SW section</b> , Canopy – Oak, Beech, Ash, Sweetchestnut & 1 x Hornbeam. Sub canopy, Dense Holly, Rowan, Hazel, young Hornbeam and Ash.  Larch in <b>North</b> . (See Pink)	<b>SE</b> . Opened up Large naturally pollarded oak, felled sycamore, beech, douglas fir and took out holly. <b>SW</b> Section: Thinned holly, felled and ringbarked some of the semi mature sycamores and beech giving room and light to more desirable trees. Started on larch in <b>North</b> section.	The few Hornbeam here should be managed to allow to mature as this was only place found in plantation.	
<b>Day 7 – 04/10/19</b>	<b>2 + TC</b>	East end of main track. Canopy – Beech, Sycamore, Oak, Scots Pine, Douglas Fir, Sweetchestnut, Sub Canopy, Holly, Hazel, Rhododendron.	Felling of mature beech and sycamore to open up ride/canopy and make room for late mature oaks. Opened up clearing at far east of trail. Thinned upper bank and	Rhododendron needs removing and Holly controlling where becomes invasive.	





			hedgerow holly, sycamore and a few beech.		
Day 8 – 05/11/19	2 + TC	North (East) Section Canopy – Beech, Sycamore, Oak, Scots Pine, Douglas Fir, Sweetchestnut, Sub Canopy, Holly, Hazel, Rhododendron. Between Grey and Pink areas there is a small dense area of holly at the top, as it's the only area like it, we left as it borders lighter habitats.	Felled some mature beech and sycamore to benefit other key species. Part of above (green) work. Holly managed.	Rhododendron management required. Give new growth holly a cut.	
Day 9 – 11/11/19	2	<b>Important Birch/Pine habitat</b> in the North central section. Some Rowan. Whole of area - mostly Beech, some Sycamore, Oak, Scots Pine, Douglas Fir & Larch. Sub canopy – Holly, Hazel and young Birch.	Felled mainly young and semi mature beech to provide space for pine and birch habitat not seen elsewhere in the woodland. Trees were left where felled rather than compact windrows, both to allow light to ground and an attempt to discourage browsing whilst 'caging' any regeneration. Some Holly management. The broader area consisted of mainly young to mature beech which was thinned and a number of Larch were felled or ringbarked	Monitor and possibly continue management of area to favour Birch and Pine	



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<p><b>Day 10 – 14/11/19</b></p>	<p><b>2</b></p>	<p>North west Section Canopy, - Oak, Beech, Turkey Oak, Sycamore, Larch, some birch. Sub canopy – Hazel, Holly, Young birch and trees of above</p>	<p>Mostly Sycamore and Beech thinning, Larch felled or ringbarked.</p>	<p>Consider removal of all Turkey Oak and replacing with Pedunculate or Sessile</p>	
<p><b>Day 11 – 19/11/19</b></p>	<p><b>2 + TC</b></p>	<p>West main track Canopy – Oak, Beech, Sycamore, Young Ash Sub canopy – Young ash, Hazel, Holly, rhododendron</p>	<p>Opened up rides creating light and reduced competition for large oaks. Cleared around young key species.</p>	<p>Rhododendron needs to be removed</p>	
<p><b>Day 12- 26/11/19</b></p>	<p><b>2 + TC</b></p>	<p><b>Central Woodland:</b> Canopy - Beech, Oak, Sycamore, Sub canopy: Young Ash, Hazel, Holly <b>West by stream.</b> Canopy – Mainly Beech, some oak, sycamore. <b>Middle section</b> by horse jumps not needing much work beyond rides. Canopy - Beech, Oak, Sycamore, Sub canopy: Young Ash, Hazel. Lack of shrub layer</p>	<p><b>Central</b> - Cleared Holly, felled some beech and sycamore to improve conditions for others. <b>West</b> - Thinned Beech over stream and small ravine <b>Middle</b> - Managing a few young dominant species to create room for Ash and Rowan.</p>	<p>Holly regrowth needs managing.  Could consider ring barking a mature beech tree to punch a hole in canopy to help regeneration of Oak</p>	