

## Restore a Habitat II- Forest Succession Plant Growth List

Growth rates are estimated and based on ideal growing conditions. Restoration sites are often less than ideal so growth rates may vary considerably, especially in the first few years, while the restoration becomes established. However, this gives a general idea of the potential for forest growth in 100 years. This information is greatly simplified and is intended specifically for this activity; further research may be required for actual project planning. Groundcovers are not included as most will reach their full size in 5 years and will reproduce as long as their growing needs are met.

### CANOPY Tall trees

Note: The shorter-lived species often require a sunny place for their seeds to grow. As the forest matures, sun-loving plants will not reproduce. Shade-loving plants will continue to reproduce creating the 'climax' forest.

Plant name	Preferred light requirements	Life span in years	5 years	25 years	50 years	100+ years
<b>Big leaf maple</b>	Sun	150 yrs	12	25'	50'	60-80'
<b>Bitter cherry</b>	Sun	60 yrs	16	30	40-60	-
<b>Black cottonwood</b>	Sun	150 yrs	12'	40'	80'	80-120'
<b>Cascara</b>	Sun/shade	60 yrs	6'	16'	30'	-
<b>Douglas fir</b>	Sun	600 yrs	20'	40'	80'	150-300'
<b>Garry oak</b>	Sun	300 yrs	6'	12'	30'	65'
<b>Grand fir</b>	Sun/shade	600 yrs	12'	30'	80'	140-170'
<b>Oregon ash</b>	Sun	150 yrs	12'	25'	85'	-
<b>Red alder</b>	Sun	60 yrs	20'	40'	50-130	-
<b>Sitka spruce</b>	Sun/shade	600 yrs	8'	25'	60'	90'-160'
<b>Western hemlock</b>	Sun/shade	1000 yrs	8'	25'	60'	125-175'
<b>Western red cedar</b>	Sun/shade	1200 yrs	12'	25'	60	150-200'
<b>Willows</b>	Sun	60 yrs	8'	16'	16-40'	-

### UNDERSTORY Shrubs and small trees

Note: Though usually short-lived these plants will self-propagate and continue to be a part of the forest. Plants that can grow in part shade will continue to reproduce, though primarily along the forest edge, as the forest matures.

P-shade indicates the plant will grow in partial shade

Plant name	Preferred light requirements	Life span in years	5 years	25 years	50 years	100+ years
<b>Dull Oregon grape</b>	P-shade/Shade	Once established these plants have varied life spans, but will generally continue to revegetate continuously from rhizomes, roots or seeds as long as their sun and water requirements are met.	1'	2'	2'	See life span
<b>Evergreen huckleberry</b>	P-shade/Shade		3'	4'	4-8'	
<b>Hazelnut</b>	Sun/Shade		12'	16'	30'	
<b>Indian plum</b>	P-shade/Shade		6'	8'	16'	
<b>Mock orange</b>	Sun		6'	10'	10'	
<b>Oceanspray</b>	Sun/P-shade		8'	12'	16'	
<b>Red-flowering currant</b>	Sun/P-shade		6'	8'	10'	
<b>Red elderberry</b>	Sun/P-shade		8'	20'	20'	
<b>Red osier dogwood</b>	Sun/Shade		6'	12'	12'	
<b>Salal</b>	P-shade/Shade		2'	3-6'	3-6'	
<b>Salmonberry</b>	Sun/P-shade		6'	8'	8'	
<b>Snowberry</b>	Sun/Shade		4'	5'	5'	
<b>Sword fern</b>	P-shade/Shade		3'	4'	4'	
<b>Tall Oregon grape</b>	Sun/P-shade		3'	8'	8'	
<b>Thimbleberry</b>	Sun/Shade		4'	6'	6'	
<b>Vine maple</b>	Sun/P-shade	8'	16'	25'		
<b>Wild rose</b>	Sun	6'	10'	10'		