

## Comparison Chart for Prime Movers

	Cost	Productivity	Limitations	Advantages
<b>ATV</b> 300cc and 4WD	\$8,000 (new)	0.1 to 0.4 m <sup>3</sup> /load	<ul style="list-style-type: none"> <li>- Limited by terrain and stand conditions.</li> <li>- May require addition of guarding to protect vulnerable components, and operator.</li> <li>- Woods work can be hard on plastic components of ATV.</li> <li>- No ROPS, FOPS or OPS specifically designed for ATV, addition of these items may invalidate warranty.</li> <li>- Excessive running in low gear may increase breakdowns, so select a machine with appropriate range of low gears.</li> <li>- Operator must be aware of the limitations of the machine with regard to logging.</li> </ul>	<ul style="list-style-type: none"> <li>- Versatility for off woodlot activities (i.e. hunting and fishing).</li> <li>- Many commercially available attachments for the ATV.</li> <li>- This choice is suitable for an ATV owner that also wants to produce limited volume of wood, usually for personal consumption.</li> <li>- Track kits are available for most ATVs, making them more suitable for hauling in the snow.</li> <li>- Good for an average annual harvest of 70 m<sup>3</sup>.</li> </ul>
<b>Tractor</b> Less than 35 hp 35- 75 hp 80 + hp	\$14,000 (new) \$16,000 - \$30,000 (new) \$40,000 + (new) + up to \$7,000 for addition of necessary machine guarding and protective operator structures	1- 3 m <sup>3</sup> / hr for smaller tractors 2-8 m <sup>3</sup> / hr for larger tractors	<ul style="list-style-type: none"> <li>- Be sure to check ergonomics! If you are using a winch, you will be getting in and out a lot. A tractor with gears between the legs may not be ideal.</li> <li>- Requires addition of protective guards for vulnerable machine components and protective structures for the operator.</li> <li>- Some models can be very unstable in the woods.</li> <li>- Well established trails are required to obtain best results.</li> </ul>	<ul style="list-style-type: none"> <li>- Versatility for farming operations.</li> <li>- Tend to keep their value.</li> <li>- Some models available with bi-directional seats so you can swing around in the seat to load a trailer.</li> <li>- Some models available with closed cabs with air conditioning.</li> <li>- Many commercially available logging attachments.</li> <li>- Usually good parts available and service in most areas.</li> <li>- Many models and sizes available to suit most conditions.</li> <li>- A suitable choice for the production of personal use wood, and small volumes of commercial wood.</li> <li>- Tracts can be purchased fro most tractors enabling them to operate in snow.</li> <li>- Good for an average annual harvest of 70 m<sup>3</sup> for smaller tractors up to 1800 m<sup>3</sup> for larger tractors.</li> </ul>

<p><b>Off Highway Utility Vehicle / Side by Side</b></p>	<p>\$ 11,000 +</p>	<p>0.1 to 0.4 m3/ load</p>	<ul style="list-style-type: none"> <li>- Slightly wider than an ATV.</li> </ul>	<ul style="list-style-type: none"> <li>- Versatility for off woodlot activities.</li> <li>- Designed to carry two people.</li> <li>- Options include roll cage and utility box.</li> <li>- Good for an average annual harvest of 70 m3.</li> </ul>
<p><b>Snowmobile</b></p>	<p>\$7,500</p>	<p>1-3 m3/hr</p>	<ul style="list-style-type: none"> <li>- Can only be used in winter.</li> <li>- Requires well established, packed trails when used for wood extraction.</li> <li>- Make sure you select a machine designed for working, not racing.</li> </ul>	<ul style="list-style-type: none"> <li>- Enjoyment of working with animals.</li> <li>- Less extensive extraction trails required.</li> <li>- Can be advantageous for minimizing soil disturbance on some sensitive sites.</li> </ul>
<p><b>Horse / Oxen</b></p>	<p>\$4,000-\$5,000 includes horse, track and trailer</p>	<p>1-3.5 m3/hr</p>	<ul style="list-style-type: none"> <li>- Care, training and health of animals.</li> <li>- Operator must have appropriate animal skills.</li> <li>- Cannot be parked and forgotten at end of operations.</li> <li>- Productivity drops quickly as extraction distance exceeds 30 meters.</li> <li>- Not suitable for all terrain and stand conditions.</li> </ul>	<ul style="list-style-type: none"> <li>- Enjoyment of working with animals.</li> <li>- Less extensive extraction trails required.</li> <li>- Can be advantageous for minimizing soil disturbance on some sensitive sites.</li> </ul>
<p><b>Truck Tractor</b></p>	<p>Low</p>	<p>1 - 3.5 m3/load</p>	<ul style="list-style-type: none"> <li>- Not available commercially.</li> <li>- Owner must be mechanically inclined.</li> </ul>	<ul style="list-style-type: none"> <li>- Good for an average annual harvest of 70 m3.</li> </ul>
<p><b>Used Skidder / Forward</b></p>	<p>\$30,000 (price is dependant on the condition of the machine)</p>	<p>4-10 m3/hr</p>	<ul style="list-style-type: none"> <li>- Generally less versatile for non harvest related activities</li> <li>- Requires skilled operator, and a commitment to harvesting activities.</li> <li>- Costly maintenance.</li> </ul>	<ul style="list-style-type: none"> <li>- Purpose built, robust construction, with appropriately engineered operator protective structures.</li> <li>- A good choice for landowners who want to produce commercial volumes of wood.</li> <li>- Good for an average annual harvest of 360 m3 +</li> </ul>