

Table 1. Hand Drill Effort Ratings

HEARTHBOARDS

Scientific Name	Common Name	Clematis	Buckeye	Redwood (H)*	Redwood (S)*	Big-leaf Maple	Effort Average
<i>Acacia</i> sp.	Acacia	5	5	5	5	4	4.8
<i>Acer macrophyllum</i>	Big-leaf Maple	2	2	3	4	2	2.6
<i>Acer negundo</i>	Box Elder	2	2	2	2	3	2.2
<i>Achillea millefolium</i>	Yarrow	3	1	2	2	2	2.0
<i>Aesculus californica</i>	CA Buckeye	2	2	2	3	2	2.2
<i>Alnus rhombifolia</i>	White Alder	4	5	3	2	5	3.8
<i>Abutilon menziesii</i>	Madrone	5	5	5	5	5	5.0
<i>Artemisia californica</i>	CA Sagebrush	5	3	3	3	5	3.8
<i>Artemisia douglasiana</i>	Mugwort	3	3	2	2	3	2.6
<i>Baccharis douglasii</i>	Mash Baccharis	4	4	5	5	5	4.6
<i>Baccharis pilularis</i>	Coyote Brush	5	5	5	5	5	5.0
<i>Baccharis salicifolia</i>	Mule Fat	1	2	3	2	3	2.2
<i>Calocedrus decurrens</i>	Incense Cedar	5	5	5	4	5	4.8
<i>Ceanothus thyrsiflorus</i>	CA Lilac	4	5	3	3	5	4.0
<i>Chlorogalum pomeidianum</i>	Soaproot	5	3	3	4	5	4.0
<i>Cirsium vulgare</i>	Bull Thistle	2	3	2	3	3	2.6
<i>Conium maculatum</i>	Poison Hemlock	5	5	5	5	5	5.0
<i>Conyza canadensis</i>	Horseweed	1	3	2	2	2	2.0
<i>Comus sericea</i>	American Dogwood	3	5	4	3	3	3.6
<i>Corylus cornuta</i>	Hazelnut	5	5	5	4	5	4.8
<i>Cupressus macrocarpa</i>	Monterey Cypress	5	5	5	5	5	5.0
<i>Cydonia oblonga</i>	Quince	5	5	5	5	4	4.8
<i>Cylissus scoparius</i>	Sooth Broom	3	2	2	2	5	2.8
<i>Dipsacus fullonum</i>	Fuller's Teasel	5	2	5	5	3	4.0
<i>Erigeron</i> sp.	Fleabane Daisy	2	2	4	5	3	3.2
<i>Eriophyllum staechadifolium</i>	Seaside Woolly Sunflower	5	3	4	5	3	4.0
<i>Escallonia macrantha</i>	Escallonia	5	5	5	2	5	4.4
<i>Eucalyptus globulus</i>	Blue Gum Eucalyptus	5	5	5	5	5	5.0
<i>Euonymus occidentalis</i>	W. Burning Bush	5	3	3	4	5	4.0
<i>Gnindelia stida</i>	Marsh Gum Plant	5	5	5	5	4	4.8
<i>Hedera helix</i>	English Ivy	5	5	5	5	5	5.0
<i>Helianthus</i> sp.	Garden Sunflower	3	3	3	5	3	3.4
<i>Heteromeles aturifolia</i>	Toyon	5	5	5	5	5	5.0
<i>Holodiscus discolor</i>	Ocean Spray	4	3	4	4	5	4.0
<i>Juniperus communis</i>	Common Juniper	5	5	5	5	5	5.0
<i>Larix</i> sp.	Tamarack	4	5	5	4	5	4.6
<i>Lithocarpus densiflorus</i>	Tan Oak	5	5	5	4	4	4.6
<i>Lonicera hispidula</i>	Hairy Honeysuckle	4	4	2	4	3	3.4
<i>Lupinus albus</i>	Tree Lupine	5	5	5	5	5	5.0
<i>Madia elegans</i>	Tarweed	4	4	5	5	5	4.6
<i>Malus</i> sp.	Apple	5	5	5	5	5	5.0
<i>Mimulus aurantiacus</i>	Sticky Monkeyflower	5	5	4	3	5	4.4
<i>Myrica californica</i>	Pac. Wax Myrtle	5	5	2	3	5	4.0
<i>Phyllostachys</i> sp.	Bamboo	5	5	5	5	4	4.8
<i>Prunus cerasifera</i>	Cherry Plum	5	5	3	3	5	4.2
<i>Pseudotsuga menziesii</i>	Douglas Fir	2	4	3	3	2	2.8
<i>Pteridium aquilinum</i>	Baden Fern	5	5	4	4	5	4.6
<i>Pyrus</i> sp.	Pear	5	5	5	5	5	5.0
<i>Rhamnus californica</i>	Coffeeberry	5	5	5	5	5	5.0
<i>Rhododendron macrophyllum</i>	Pacific Rhododendron	4	5	5	5	5	4.8
<i>Rhododendron occidentale</i>	Western Azalea	5	4	4	5	4	4.4
<i>Ribes menziesii</i>	Canyon Gooseberry	5	5	5	5	5	5.0
<i>Rosa gymnocarpa</i>	Wood Rose	5	4	4	3	5	4.2
<i>Rubus discolor</i>	Himalayan Blackberry	4	3	5	5	3	4.0
<i>Rubus parviflorus</i>	Thimbleberry	4	4	3	3	4	3.6
<i>Rumex crispus</i>	Curtly Dock	5	5	5	5	5	5.0
<i>Salix lutea</i>	Yellow Willow	5	5	5	5	4	4.8
<i>Salix</i> sp.	Willow	5	4	3	2	3	3.4
<i>Sambucus mexicana</i>	Blue Elderberry	1	2	3	2	3	2.2
<i>Scophularia californica</i>	CA Figwort	3	2	2	4	3	2.8
<i>Sequoia sempervirens</i>	Coast Redwood	2	2	2	3	3	2.4
<i>Silybum marianum</i>	Milk Thistle	3	3	4	3	5	3.6
<i>Solidago spathulata</i>	Coast Goldenrod	4	3	3	4	3	3.4
<i>Sonchus oleraceus</i>	Sow Thistle	2	1	3	4	5	3.0
<i>Symphoricarpos albus</i>	Snowberry	5	4	5	4	5	4.6
<i>Tamarix parviflora</i>	Smallflower Tamarisk	5	3	4	5	5	4.4
<i>Thuja plicata</i>	Western Red Cedar	5	5	3	3	4	4.0
<i>Typha latifolia</i>	Cattail	3	2	1	2	4	2.4
<i>Ulmus minor</i>	Smooth-leaved Elm	5	5	5	5	5	5.0
<i>Umbellularia californica</i>	CA Bay Laurel	3	3	3	3	4	3.2
<i>Urtica californica</i>	Singing Nettle	3	5	3	4	3	3.6
<i>Vaccinium ovatum</i>	Evergreen Huckleberry	5	5	5	5	5	5.0
<i>Verbascum thapsus</i>	Common Mullein	3	3	3	2	5	3.2
<i>Vitis californica</i>	Wild Grape	2	4	4	4	4	3.6

1 (easiest) to 4 (very difficult), 5=unsuccessful

* (H)=Heartwood; (S)=Sapwood

