

Seedling Stock Types

Barerooted Seedlings

Seedlings that are grown outdoors and grown from seed are **barerooted**, which means that their roots are separated from the soil when they are to be moved to the planting site. To grow larger seedlings, smaller seedlings can be lifted and replanted in widely spaced rows, where they will have more space for growth. These are called **transplants**. Transplants also are barerooted. Barerooted seedlings usually are described by age class, using two numbers separated by a hyphen. The first number is the number of years the seedling has been in the bed where the seed was sown. For example, a 2-0 seedling is two years old. The second number is the number of years the seedling was in a transplant bed. For example, a 2-2 seedling was in the first bed for two years, then transplanted in to another bed where it remained for another two years. A 2-2 seedling is four years old. Barerooted seedlings are boxed; the number of seedlings in a box depends on the size of the seedlings. Red pine 2-0 seedlings are shipped from the State Nursery Program 1,000 seedlings to a box; 3-0 seedlings usually ship 500 to a box; 2-2 transplants usually ship 200 to a box.



Barerooted seedlings are grown outdoors in beds.



2-0 seedling



3-0 seedling



2-2 transplant

Containerized Seedlings

Seedlings grown in pots or blocks are **containerized**; they are moved to the planting site in the soil in which they were grown and planted with the soil still attached to the roots.



Containerized seedlings usually are grown in a greenhouse. Seeds are sown in to cavities in large styrofoam blocks, often called styroblocks. Cavity size (volume) can be selected to accommodate different species and ages of seedlings. Common container sizes used for forest tree seedlings are listed in the table below.

Growing Container	Block Model Number	Metric Number	Block Number	Plug Dimensions			Finished Seedling Specifications		
				Length (in)	Diameter (in)	Volume (cu in)	Heights (in)		Caliper (in)
							Min	Max	Min
Styroblock	448 / 17	207a	1	2.8	0.7	1.1	2.5	5.0	1/16
Jiffy	J 25	25 / 65		2.6	1.1	2.4	4.0	8.0	3/32
Styroblock	209 / 40	310A	2 B	4.1	1.0	2.4	4.0	8.0	3/32
Styroblock	240 / 40	211A	2 A	4.5	1.1	2.4	4.0	8.0	3/32
Styroblock	198 / 50	312A		4.8	1.1	2.9	4.0	8.0	3/32
Jiffy	J 28	28 / 65		2.6	1.2	3.1	4.0	8.0	3/32
Styroblock	198 / 60	313A	4 A	5.2	1.1	3.7	4.0	8.0	3/32
Styroblock	160 / 60	310B	4 S	4.1	1.2	3.3	4.0	8.0	7/64
Jiffy	J 30	30 / 65		2.6	1.3	3.7	4.0	8.0	7/64
Styroblock	180 / 60	309A		3.7	1.1	3.7	4.0	8.0	7/64
Styroblock	160 / 65	313B	4	5.0	1.2	4.0	4.0	8.0	7/64
Styroblock	144 / 95	313D	6 A	5.2	1.3	5.8	4.0	8.0	7/64
Styroblock	144 / 82	411		4.1	1.3	4.9	6.0	10.0	1/8
Styroblock	112 / 80	410A	6 S	4.1	1.4	4.9	6.0	10.0	1/8

Seedlings are shipped either in the styroblock or extracted from the block and bundled. Extracted seedlings are wrapped in bundles of 20 and boxed, usually 600 seedlings or so to a box, and then frozen until they are shipped in the spring.



At left - 4A red pine containerized seedling.

At right – Containerized red pine seedlings extracted from the styroblock and bundled with wrapping such as Saran Wrap or Glad Wrap.

