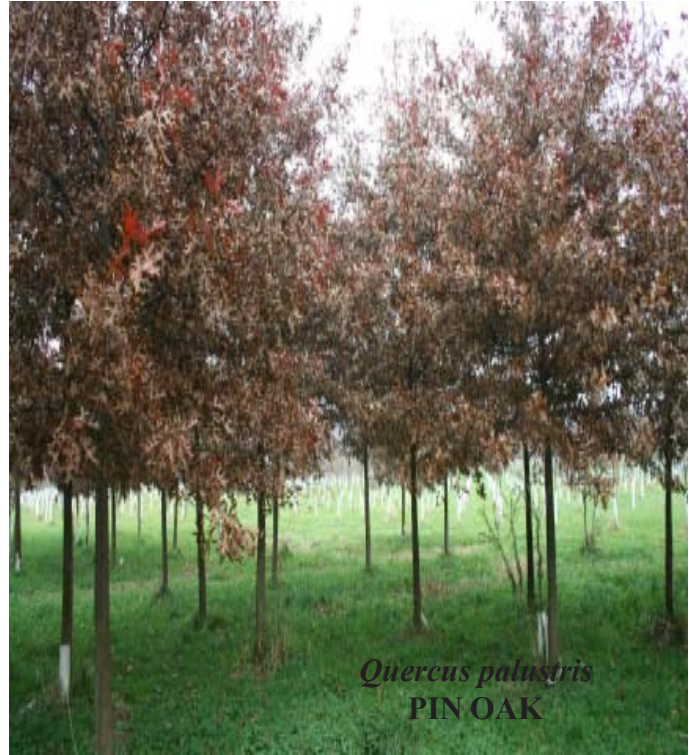


“Quercus” The Oak Family



Quercus coccinea
SCARLET OAK



Quercus palustris
PIN OAK

**Wade & Gatton Nurseries
1288 Gatton Rocks Road
Bellville, Ohio 44813
(1928 - 2011)
Our 83rd Year**

**Telephone: 419-883-3191
Fax: 419-883-3677 (24 Hour)
Email: wadeandgatton@yahoo.com
Website: wadeandgattonnurseries.com**

**Hours: 8:00 a.m. - 5:00 p.m.
Monday thru Saturday
(Closed Sundays & Holidays)**

“*QUERCUS* - THE MIGHTY OAK FAMILY”

Our Oak collections are some of the finest in Central U.S.A. We specialize in well shaped, straight trunked Oaks with excellent root systems.

Our soils are well adapted to Oaks because we plant them here in our own mini-climates and specifically in small valleys here, that promote optimum growing conditions for them. We space out our Oaks on 8' x 8' cross-checks, trim and fertilize them each year until sold.

Oak trees are deep rooted naturally. Therefore, we root prune to prevent this, when field planting into our 8' x 8' spacing. This creates more roots where we want them.

We sell Oaks only as B&B trees, as we know they transplant best that way.

All Oaks require more moisture than the average shade tree. After transplanting a B&B Oak tree, be sure that you give them special attention for the first two years in regard to watering. Water them in deeply and thoroughly with initial planting. Use approximately 10 gallons of water per 1" caliper. Provide a plant pocket around the tree with mulch that can hold 5 to 10 gallons of water. This pocket should be filled daily for one week after planting, then 10 gallons of water per inch caliper per week thereafter for six growing months. The second year, water well during dry seasons whenever they occur. Note: When watering for the first few months, spray the trunk, leaves and branches with fresh water at the same time you water the roots. This will freshen up your tree and give instant moisture to the leaves.

Oaks are strong, sturdy, long-lived, hardwood trees. They should be planted more than they are. They are generally thought of as getting too big, just because we see old specimen trees, 50 to 100' tall. But this is misleading because these trees are often 100 to 150 years old. We generally landscape our homes for shorter periods of time, usually 10, 15, or 25 year durations only.

Oaks are slow growing, but are well worth the wait! With proper water and fertility, I've seen them grow as much as 6' a year in my own yard! Ask us how we did this!



A field of *Quercus rubra*, Red Oak

***Quercus acutissima*, SAWTOOTH OAK (35-45' Tall by 35-45' Wide)**

A fast growing, medium sized, spreading Oak that adapts well to summer heat. It has outstanding, attractive summer foliage. In Spring, it opens up a clear golden-yellow, then changes into its deep, glossy green, summer foliage, and remains so all summer. In the Autumn, it turns a golden-yellow to brown. The leaves are very sharply serrated and glossy, giving it a clean, crisp appearance. Leaves are 3.5" to 7.5" long by 1" to 2.25" wide. The male catkins appear in Spring and are golden, 3 to 4" long and attractive. Prefers acid, well drained soils, but is quite adaptable. Zone 5.

20-	3.0-4.0'	(Container)	17.00
75-	4.0-6.0'	(Container)	17.00
40-	1.50-1.75"	(23" x 16" B&B&R&W)	175.00
25-	1.75-2.00"	(24" x 18" B&B&R&W)	195.00
1-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
1-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
1-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
1-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
1-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
1-	4.50-5.00"	(50" x 36" B&B&R&W)	695.00
1-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
1-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
1-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
1-	6.50-7.00"	(62" x 42" B&B&R&W)	1,045.00
1-	7.00-7.50"	(64" x 44" B&B&R&W)	1,095.00
1-	7.50-8.00"	(66" x 48" B&B&R&W)	1,225.00
1-	6 - 7' Multi-Stem	(28" B&B&R&W)	224.00
1-	7 - 8' Multi-Stem	(32" B&B&R&W)	295.00
1-	8 - 9' Multi-Stem	(36" B&B&R&W)	395.00
1-	9 -10' Multi-Stem	(42" B&B&R&W)	445.00
1-	10-12' Multi-Stem	(44" B&B&R&W)	545.00
1-	12-14' Multi-Stem	(48" B&B&R&W)	745.00

***Quercus acutissima*,
SAWTOOTH OAK**



***Quercus alba*, WHITE OAK (80-100')**

An excellent Oak that matures into a strong limbed, stout, oval topped shade tree. Leaves: Leaf margins are slightly lobed and rounded. The foliage often turns red to wine color, sometimes slightly maroon, then to brown and holding on for two to five months. Light green summer leaves usually hold until late Winter with a brown winter color. White Oak will grow from a 1" tree to a 2" tree in about 3 years, from a 2" tree (8-10') to a 5" (15-18') tree in another 6 to 8 years. But to grow 30', it will require another 15 to 20 years. When we see giant 60' to 100' trees, we realize some may be 150 years old, long lived and able to withstand adverse growing conditions. The Oak nuts are a favorite for red, gray and fox squirrels. Slow growing. White Oaks are very scarce in the markets today! Not because they are not a good tree, but because the production of liners are so few. Culture: Trees prefer a clay loam soil with good drainage. Sun or shade. pH 5.5 to 7.5. Zone 5.

25-	1.75-2.00"	(26" x 18" B&B&R&W)	195.00
20-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
15-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
12-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
15-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
10-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
8-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
6-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
4-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
5-	6.00-6.50"	(60" x 40" B&B&R&W)	945.00
5-	6.50-7.00"	(65" x 44" B&B&R&W)	995.00
5-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
2-	7.50-8.00"	(70" x 48" B&B&R&W)	1,145.00
2-	8.00-8.50"	(76" x 52" B&B&R&W)	1,195.00
1-	8.50-9.00"	(77" x 54" B&B&R&W)	1,295.00
1-	9.00-9.50"	(80-90" B&B&R&W)	1,325.00



***Quercus bicolor*, SWAMP WHITE OAK (50-60' Tall by 40-50' Wide)**

An erect, broad, open, round topped shade tree growing nearly as wide as tall. Leaves are dark green above, felty white beneath, are 4-10" long by 1/2" wide, with about 7 to 10 uneven pairs of rounded leaf lobes. Yellowish-brown to red fall color. Will tolerate wet, low laying areas. Acorns are about 1" long, and are eaten by many kinds of birds and mammals. Wood is used extensively for furniture, flooring, boats, finishing, and whiskey and wine casks. Comments: Swamp White Oaks are now being used quite extensively in our landscape plantings today because they tolerate clayish and wet soils, as well as well drained areas. They seem to adapt well into commercial and residential planting areas. Culture: Requires an acid soil in wet or swampy growing conditions. Zone 4.

40-	1.50-1.75"	(24" x 18" B&B&R&W)	175.00
45-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
2-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
3-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
2-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
4-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
2-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
4-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
3-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
3-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
2-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
2-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00
2-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
2-	7.50-8.00"	(70" X 48" B&B&R&W)	1,245.00
1-	8.00-8.50"	(76" x 52" B&B&R&W)	1,325.00

* A FEW PARK GRADE TREES ARE AVAILABLE AT A 20% DISCOUNT *



***Quercus coccinea*, SCARLET OAK (70-75' Tall by 40-50' Wide in 50 years)**

A round headed tree at maturity, usually holding its leaves through Winter. After severe freezing weather, leaves turn their brilliant red colors. These colors vary from tree to tree slightly, as our stocks are not budded stock. They are not all clones. Color is somewhat consistent however. These leaves then turn brown and persist (hold on) all winter until the growth buds push them off in April.

Branching habit in old specimens is artistically branched. Usually starts to show up in 5" caliper trees. Attractive dark brown to black ridged bark is noticeably impressive. Deeply lobed leaves are somewhat similar to *Quercus palustris*, the Pin Oak.

Unequaled as an individual specimen tree for residential and commercial plantings. Strong branches do not break up in windy or snow belt areas. Very hardy to -28 degrees below zero here in Bellville, Ohio. Scarlet Oaks are long lived, and therefore do become quite large. In 20 years, starting with a tree 2" caliper, trees often could be only 25-30' tall and 15' wide.

Value: A single specimen Scarlet Oak in the front yard of a residence can be worth thousands of dollars. It often times can add to the value of the home 2
Culture: Scarlet Oak prefer silt clay, somewhat gravelly or sandy clay loam, requiring slightly more drainage and slightly less moisture than *Quercus borealis*. Requires, as do Pin Oaks and Red Oaks, a great quantity of water, regularly for several seasons after transplanting. Normally deep rooted when not root pruned, possessing deep tap roots. pH 6.0 to 7.0. Sun or shade. Zone 4.

All of our trees are twice transplanted and root pruned when planted. They have a good root system, and are far superior to only once transplanted trees.



44' Semi Load of *Quercus coccinea*, Scarlet Oak ready to go!

Quercus coccinea, SCARLET OAK (Description on Previous Page)

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
140-	1.50-1.75"	(24" x 18" B&B&R&W)	175.00
160-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
75-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
60-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
35-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
21-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
18-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
12-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
24-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
12-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
9-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
10-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00
12-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
11-	7.50-8.00"	(75" X 50" B&B&R&W)	1,245.00
10-	8.00-8.50"	(80" x 52" B&B&R&W)	1,325.00
8-	8.50-9.00"	(80" x 54" B&B&R&W)	1,490.00
5-	9.00-9.50"	(85-90" x 55" B&B&R&W)	1,750.00
4-	9.50-10.00"	(85-90" x 55" B&B&R&W)	1,995.00
2-	10.00-10.50"		2,890.00
3-	10.50-11.00"		3,940.00
2-	11.00-11.50"		5,440.00
2-	11.50-12.00"		5,920.00
2-	12.00-12.50"		6,720.00



***Quercus ellipsoidalis*, NORTHERN PIN OAK (60' tall x 45' spread)**

This native tree is well adapted to sandy, acid soils, but will tolerate heavier soils and more alkaline conditions than Pin Oak. It is great for use as a specimen tree in lawn or boulevard plantings. The red fall color can be spectacular! Glossy green foliage in Spring followed by beautiful red fall color. Conical growth habit when young, maturing to a broad oval form. Native to Great Lakes Region. Zone 3.

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
10-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
15-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
10-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
12-	3.00-3.50"	(36" x 26" B&B&R&W)	345.00
10-	3.50-4.00"	(38" x 28" B&B&R&W)	435.00
2-	4.00-4.50"	(40" X 30" B&B&R&W)	525.00



***Quercus imbricaria*, SHINGLE OAK (75')**

A most beautiful Oak tree possessing glossy dark green, glistening leaves. Entire leaf margins, no lobes. Leaves turn brown in late Autumn and persist through Winter into early Spring. Leaves resemble *Kalmia latifolia*, Mountain Laurel. Compact, broadly rounded head. Strong branches do not break with heavy winter snows. Culture: Prefers a silty clay loam with plenty of moisture. pH 6.0 to 7.5. Sun. Zone 5. Note: Shingle Oaks are now being planted on commercial and residential plantings. Not so much in the past, but now we are finding out that they do well and people like them. Their acorns are the smallest of all, and birds, squirrels, wild turkeys, deer, ground-hogs, actually eat most of them quickly and it's hard to pick any to replant. They ripen early in the fall. They are native here in wetland areas in Central Ohio and tolerated the -50 degrees below zero F. temperatures here in 1992.

2-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
8-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
15-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
15-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
18-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
25-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
15-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
10-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
12-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
5-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00
1-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
1-	7.50-8.00"	(75" X 50" B&B&R&W)	1,245.00
1-	8.00-8.50"	(80" x 52" B&B&R&W)	1,325.00
1-	8.50-9.00"	(82" x 54" B&B&R&W)	1,490.00
1-	9.00-9.50"	(84" x 56" B&B&R&W)	1,750.00



***Quercus macrocarpa*, BUR OAK (60-80' tall x 60-80' spread)**

Native from Nova Scotia to Manitoba and south to Pennsylvania and Texas, this beautiful oak has attractive corky bark that's especially interesting in winter. Tolerates a wide range of soil types and air pollutants. Dark green foliage above, grayish below. Yellowish-brown to purplish fall foliage color. Zones 3-8.

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price	*Special*
35-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00	195.00
40-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00	245.00
45-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00	324.00
52-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00	395.00
45-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00	440.00
40-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00	595.00
35-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00	695.00
44-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00	775.00
24-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00	895.00
15-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00	995.00
18-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00	
14-	7.50-8.00"	(75" x 50" B&B&R&W)	1,245.00	
10-	8.00-8.50"	(80" x 52" B&B&R&W)	1,325.00	
12-	8.50-9.00"	(80" x 54" B&B&R&W)	1,490.00	
9-	9.00-9.50"	(85-90" x 55" B&B&R&W)	1,750.00	
6-	9.50-10.00"	(85-90" x 58" B&B&R&W)	1,995.00	
5-	10.00-10.50"	(85-90" x 60" B&B&R&W)	2,890.00	

***Quercus macrocarpa* 'Monstrosa', MONSTROSA BUR OAK (60-80' tall x 60-80' spread)**

Same general characteristics as the native Bur Oak, but this variety has monstrous wings on its bark. Very artistic, unusual and admired by arborists. Discovered by chance growing here in our nursery only a few years ago. We have several planted here in our Botanical Gardens for all to see. We think they may come true from seed, as we've discovered only a few in our different blocks of Bur Oaks. It appears to be growing slower than the regular Bur Oak. Zone 4.

5-	2.00-2.50"	(28-30" B&B&R&W)	245.00
5-	2.50-3.00"	(30-32" B&B&R&W)	295.00
4-	3.00-3.50"	(36-40" B&B&R&W)	395.00
4-	3.50-4.00"	(40-44" B&B&R&W)	445.00
3-	4.00-4.50"	(42-48" B&B&R&W)	590.00
3-	4.50-5.00"	(45-50" B&B&R&W)	695.00
3-	5.00-5.50"	(50-52" B&B&R&W)	795.00

***Quercus muehlenbergii*, CHINKAPIN OAK OR YELLOW CHESTNUT OAK (40-50')**

Lustrous dark greenish-yellow leaves in summer turn brown and orange-yellowish brown in late Fall, usually here in mid-November. The national champion tree of Clark County, Kentucky has been measured at 110' tall x 92' wide. Normally grows on alkaline or limestone outcropping soil and prefers rich bottomlands and river valley soils. Individual specimen trees are bold, attractive, individually larger with scaly, grayish colored trunks and branches. Not many available in today's market, but we are just beginning to grow. Zones 4-7.

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
25-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
2-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
1-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
1-	3.00-3.50"	(36" x 27" B&B&R&W)	345.00
1-	3.50-4.00"	(38" x 28" B&B&R&W)	435.00
1-	4.00-4.50"	(40" x 30" B&B&R&W)	525.00
1-	4.50-5.00"	(42" x 32" B&B&R&W)	645.00
1-	5.00-5.50"	(44" x 34" B&B&R&W)	795.00
1-	5.50-6.00"	(46" x 36" B&B&R&W)	845.00



***Quercus palustris*, PIN OAK (75')**

One of the hardiest and better Oaks. Symmetrical, pyramidal shaped head. Glossy green leaves are deeply lobed, change to various tones of crimson and browns in early Autumn. Leaves on 80% downward. Native strains sometimes are closely branched and weep excessively. All of our Pin Oaks are budded trees. They possess special selected top stock from trees showing the most desirable branching characteristics. Do not confuse these trees with native, collected trees. Our trees have been twice transplanted, individually planted, root pruned, and properly fertilized. The shaped tops have been carefully trimmed so that they will grow into the best possible tree available.

Culture: Pin Oaks prefer a heavy silt clay loam with excessive moisture. Tolerates more moisture than other Oaks. Will grow in sandy or gravelly soils, but require extra moisture to get them started during the dry summer months. Requires an acid soil, with adequate fertility plus iron and magnesium. Sun or partial shade. pH 5.5 to 6.0. Zone 4.

Note: Absolutely very hardy! Our Pin Oaks have very successfully survived -50 degrees F. here in our Clear Fork River Valley in the January deep freeze of 1992. Pin Oaks grow faster than *Acer rubrums*, *Acer saccharums* or *Acer platanoides*. They are deep rooted, not shallow as are Maples.



Quercus palustris, PIN OAK (75') (Description on Previous Page)

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
90-	1.25-1.50"	(21" x 15" B&B&R&W)	150.00
80-	1.50-1.75"	(24" x 18" B&B&R&W)	175.00
40-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
2-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
4-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
12-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
15-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
10-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
25-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
25-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
15-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
12-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
5-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00
8-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
5-	7.50-8.00"	(70" X 48" B&B&R&W)	1,245.00
10-	8.00-8.50"	(76" x 52" B&B&R&W)	1,325.00
5-	8.50-9.00"	(77" x 54" B&B&R&W)	1,490.00
5-	9.00-9.50"	(80" x 55" B&B&R&W)	1,750.00
2-	9.50-10.0"	(84" B&B&R&W)	1,995.00
1-	10.0-10.5"	(86" B&B&R&W)	2,890.00
1-	10.5-11.0"	(88" B&B&R&W)	3,940.00
1-	11.0-11.5"	(90" B&B&R&W)	5,440.00
1-	11.5-12.0"	(92" B&B&R&W)	5,920.00
1-	12.0-13.0"	(95" B&B&R&W)	6,720.00



Quercus robur ‘Crimson Spire’, CRIMSON SPIRE OAK (45’ tall x 15’ spread)

(PP #9103). (*Quercus alba* x *Q. robur* ‘Crimschmidt’). This is a columnar selection which originated as a hybrid of *Q. robur* and *Q. alba*. The white oak parentage provides dark green, mildew resistant foliage and reddish fall color, while the English Oak side provides the fastigate growth habit. A relatively new Columnar Oak developed by Bill Wandell. Our trees grow as narrow as *Quercus robur* ‘Fastigiata’, leaves hold slightly longer in winter. Crimson Spire Oaks require very little pruning, grow narrow and compact. Fall color is reddish-purple at first, then turns brown and holds until early Spring. Our largest, 4-5” caliper trees are only 4-5’ wide. Appears to be very hardy here, as they have survived -20 degrees F. here several times since we first started growing them in 1994. Zone 5.

Note: Most Oaks are deep rooted, and lend themselves to be planted where perennials, such as Hostas, Ferns, Astilbes, Coralbells, etc. can be grown under them. Some of the most beautiful gardens are under tall Oak trees.

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
20-	1.50-1.75”	(24-26” B&B&R&W)	150.00
30-	1.75-2.00”	(26-28” B&B&R&W)	175.00
5-	2.00-2.50”	(28-32” B&B&R&W)	195.00
12-	2.50-3.00”	(28-34” B&B&R&W)	224.00
10-	3.00-3.50”	(36-40” B&B&R&W)	275.00
10-	3.50-4.00”	(38-42” B&B&R&W)	395.00
8-	4.00-4.50”	(44-46” B&B&R&W)	435.00
8-	4.50-5.00”	(46-50” B&B&R&W)	645.00
7-	5.00-5.50”	(50-55” B&B&R&W)	795.00
6-	5.50-6.00”	(55-60” B&B&R&W)	845.00
20-	6.00-8.00”	(58-65” B&B&R&W)	1,250.00



***Quercus robur*, ENGLISH OAK (140' tall x 80' spread)**

English Oak is a majestic tree with a very wide spreading crown, a short sturdy trunk, and deeply fissured gray brown bark. It can grow to 140 ft. tall with a rounded spread of 80 ft. or more, but is usually smaller in cultivation. English oak has small deciduous leaves, 3-5" long, with 3-7 pairs of rounded lobes, and extremely short petioles (leaf stems). They remain deep green long into autumn before turning brown and then persisting on the tree well into winter. The typical oak flowers are hanging catkins which appear with the emerging leaves in early spring. The acorns are elongate, about 1" long, with a cup that covers 1/3 of the nut. They are borne singly or in clusters of 2-5 which dangle on a single long 1-4" peduncle. English oak can be distinguished from the similar North American species, White Oak (*Quercus alba*), by its leaves which have earlike lobes on the bases and extremely short petioles. There are several named subspecies and varieties, and many selections of English oak, as well as hybrids with other species, are offered in the trade. One reference lists more than 100 cultivars. pH 6.0 to 7.0. Zone 4.

1-	2.50-3.00"	(28-32" B&B&R&W)	245.00
1-	3.00-3.50"	(36-38" B&B&R&W)	390.00
1-	3.50-4.00"	(38-42" B&B&R&W)	490.00
1-	4.00-4.50"	(42-44" B&B&R&W)	590.00
1-	4.50-5.00"	(44-50" B&B&R&W)	745.00
1-	5.00-5.50"	(50-52" B&B&R&W)	845.00

CLUMP FORM ENGLISH OAKS

1-	8 -10' Multi-Stemmed	(28-32" B&B&R&W)	250.00
1-	10-12' Multi-Stemmed	(34-38" B&B&R&W)	390.00
1-	12-14' Multi-Stemmed	(38-42" B&B&R&W)	490.00
1-	14-16' Multi-Stemmed	(44-48" B&B&R&W)	745.00

***Quercus robur fastigiata*, PYRAMIDAL ENGLISH OAK (50-60')**

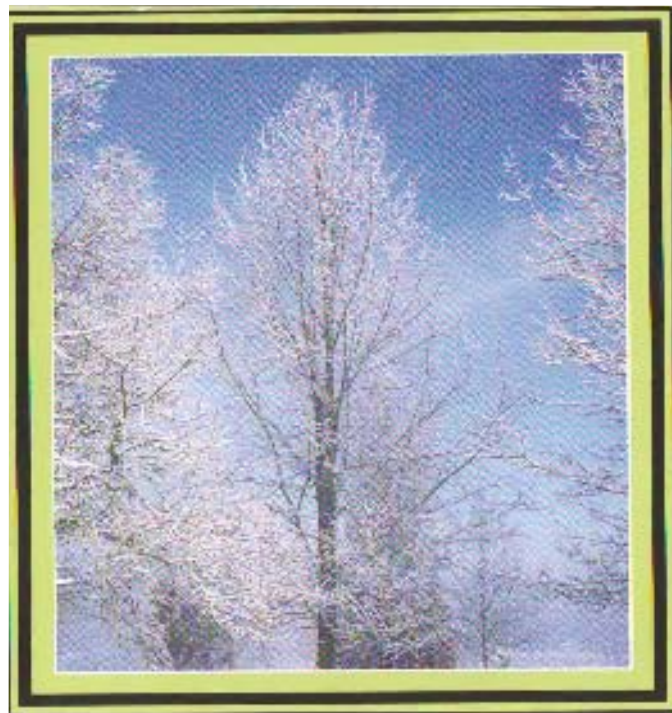
A distinctly upright, columnar growing Oak that may become 50 to 60' tall by 20' wide. Our strain is budded and considerable uniformity exists. This plant is very useful in landscape design. They serve as accent plant or can be used in screens, windbreaks, or as tall, narrow borders. They are quite formal in shape and are slow growing, but require little pruning. Pyramidal English Oaks have small, dark green, smooth edged, many lobed leaves. Fall foliage color is golden-yellow. Culture: Prefers a medium silt clay, fertile soil with adequate moisture. pH 6.0 to 7.0. Sun. Zone 4.

4-	2.00-2.50"	(28" B&B&R&W)	224.00
4-	2.50-3.00"	(32" B&B&R&W)	275.00
5-	3.00-3.50"	(38" B&B&R&W)	345.00
6-	3.50-4.00"	(42" B&B&R&W)	435.00
8-	4.00-4.50"	(45-50" B&B&R&W)	525.00
3-	4.50-5.00"	(45-50" B&B&R&W)	645.00
2-	5.00-5.50"	(50-52" B&B&R&W)	795.00
2-	5.50-6.00"	(52-54" B&B&R&W)	845.00
1-	6.00-6.50"	(54-58" B&B&R&W)	995.00

Quercus robur 'Pyramich', SKYMASTER ENGLISH OAK (50' tall x 25' spread)

An excellent English Oak selection, well suited for use as a street tree. It has a very strong leader, and excellent lateral branch development. Branches diverge from the trunk with wide crotch angles, as opposed to the narrow crotch angles of Fastigate English Oak. Narrow when young, becoming pyramidal with age. Dark green foliage. A J. Frank Schmidt introduction. This columnar Oak is well suited for use as a street tree. It develops a strong central leader, and develops well developed lateral side branches. Side branches emerge at a wide angle and are strongly resistant to wind, heavy snows and ice storm damage. Leaves have rounded lobes as do all the English and White Oaks. Leaves are dark green throughout the growing season. Has been used successfully on commercial landscape projects in Columbus, Ohio. Trees are strongly pyramidal when young, but as they age, they grow more pyramidal in overall growth form. No winter injury here, as we've been growing since 1989. Zone 5.

10-	2.00-2.50"	(28" B&B&R&W)	224.00
15-	2.50-3.00"	(32" B&B&R&W)	275.00
15-	3.00-3.50"	(38" B&B&R&W)	345.00
8-	3.50-4.00"	(42" B&B&R&W)	435.00
10-	4.00-4.50"	(44" B&B&R&W)	525.00
8-	4.50-5.00"	(48-50" B&B&R&W)	645.00
6-	5.00-5.50"	(50-52" B&B&R&W)	795.00
5-	5.50-6.00"	(52-54" B&B&R&W)	845.00
6-	6.00-6.50"	(54-58" B&B&R&W)	995.00
4-	6.50-7.00"	(65" B&B&R&W)	1,045.00
5-	7.00-7.50"	(65-70" B&B&R&W)	1,095.00
2-	7.50-8.00"	(78-80" B&B&R&W)	1,245.00
2-	8.00-8.50"	(80-90" B&B&R&W)	1,325.00



Quercus robur 'Skyrocket', SKYROCKET ENGLISH OAK (45' tall x 15' spread)

Skyrocket Oak provides a uniformly narrow shape, excellent for street plantings. Since its introduction by Schmidt in 1989, this selection has proven to stay tighter in form than the typical fastigiata English Oak. Dark green foliage in Spring followed by yellow-brown fall color. Foliage appears resistant to mildews. We've been growing them since 1991. Zone 4- 5.

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
5-	2.00-2.50"	(28" B&B&R&W)	240.00
14-	2.50-3.00"	(34" B&B&R&W)	275.00
15-	3.00-3.50"	(36" B&B&R&W)	345.00
15-	3.50-4.00"	(44" B&B&R&W)	435.00
2-	4.00-4.50"	(50" B&B&R&W)	525.00



***Quercus rubra*, NORTHERN RED OAK (60-75')**

Sometimes listed as *Quercus borealis* or *Quercus borealis maxima*, Eastern Red Oak.

A strong, sturdy, symmetrical, rounded top shade tree. Trees grow with straight clean trunks, and mature into moderately airy, specimen trees.

Leaves are 4 1/2" to 8 1/2" long, have 7 to 11 lobes, are dark green above, and paler beneath (grayish, or pale yellow-green) with axillary tufts of brownish hairs. The leaves are beautifully shaped, and are often collected, pressed and displayed.

Stems are stout, reddish to green and glabrous, are bold in winter texture.

A 3 year, 6 to 8' whip, will grow to 2" caliper in about 4 to 5 years. It takes a 2" tree about 6 years to become 5" caliper and approximately 16' tall. A 30' tree would be near 25 to 30 years old and would have a spread of 14' to 18'.

Red Oaks are not planted enough! Mature height is often regarded and compared to faster growing trees and their expected heights. A 75' Red Oak can be 80 to 100 years old. The reason it is so big is that no harmful insects or diseases have destroyed it. Its wood is strong. Limbs stand up well to high winds and ice storms. For this reason, and because it is long lived, its height for over a 25 to 30 year period should be considered 30' to 40'. I have observed a growth of 2 to 5' at times, but this is unusual and often no fertilization or trimming occurs after it is established.

They are deep rooted and can be used as street trees where no overhead wires can obstruct upward growth.

Fall colors of Red Oaks first turn russet-red, often scarlet-red, then to brown. Leaves usually fall in November and December, as opposed to Scarlet Oak, White Oak and Shingle Oak that hold their leaves much longer.

Everyone should have at least one Oak tree in their own yard. One nice specimen Oak can often add to or be worth 25% value of the home!

Red Oaks make excellent park, playground, golf course, and residential shade trees. Groups of Oaks add to the beauty of state rest areas, roadside plantings, and add interest and substantialness to any commercial or industrial plantings. They greatly increase the value of any planting.

Red Oaks are hardwood trees, and winds and snows do little damage. Acorns are 3/4" to 1" and are edible by mammals and many kinds of birds. Acorns contain tannins and it is best to boil them first before eating. Its wood is highly regarded as good woodworking and is prized for woodworking furniture, flooring, interior finishing and firewood.

Culture: Red Oaks prefer well drained, but moist soils. Will tolerate a wet Spring season, and occasional wet soils that become wet and hold water on a seasonal basis. Native of stony ridges and hilltops in Central Ohio. Under nursery conditions, trees grow excellent in our mini-valleys that lay moist and wet for 2 to 3 months a year, but dry out in the summer. pH 5.0 to 7.5. Full sun or partial shade. Zone 3.

Prices and Availability Continued on Next Page

<i>Quercus rubra</i> , RED OAK (Description on Previous Page)			
Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
210-	1.00-1.25"	(20" x 14" B&B&R&W)	95.00
190-	1.25-1.50"	(22" x 15" B&B&R&W)	150.00
190-	1.50-1.75"	(24" x 18" B&B&R&W)	175.00
175-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
65-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
40-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
19-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
15-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
16-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
12-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
8-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
5-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
5-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
4-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00
2-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
4-	7.50-8.00"	(70" X 48" B&B&R&W)	1,245.00
4-	8.00-8.50"	(76" x 52" B&B&R&W)	1,325.00
3-	8.50-9.00"	(78" x 54" B&B&R&W)	1,490.00
2-	9.00-9.50"	(80" x 55" B&B&R&W)	1,750.00
1-	9.50-10.00"	(84" B&B&R&W)	1,995.00
1-	10.00-10.50"	(86" B&B&R&W)	2,890.00
1-	10.50-11.00"	(88" B&B&R&W)	3,940.00
1-	11.00-11.50"	(90" B&B&R&W-HD)	5,440.00
1-	11.50-12.00"	(90" B&B&R&W-HD)	



***Quercus shumardi*, TEXAS RED OAK (75') (Northern Strain)**

Sometimes called Schumard's Red Oak. True Texas Red Oak according to Hortus III is *Quercus texana*, a separate plant. Note that there are some differences in authorities on proper nomenclature of this Oak. The Texas Red Oak, *Quercus texana*, only grows to 35' and is of questionable hardiness in the North. Our Oaks are the larger growing variety and are hardier.

Resembles Northern Red Oak, with strong, stout branches. Broadly round topped head. Fall color similar to Red Oak, with perhaps more hues of crimsons and reds of the Scarlet Oak, although not as much as the Scarlet Oak. Leaf margins are sharply lobed, with moderate indentations. Bark is smooth in young trees, and not as dark as Scarlet Oak on older trees. A rapid grower. Culture: Tolerates slightly more moisture than regular Red Oak. Prefers an acid soil. Prefers a slightly clay soil with adequate moisture. pH 6.0 to 7.0. Sun or partial shade. Zone 4.

Inventory Available	Height or Caliper	Ball Size Width x Depth	Each Price
65-	1.75-2.00"	(26" x 20" B&B&R&W)	195.00
25-	2.00-2.50"	(28" x 21" B&B&R&W)	224.00
20-	2.50-3.00"	(34" x 24" B&B&R&W)	275.00
15-	3.00-3.50"	(38" x 27" B&B&R&W)	345.00
20-	3.50-4.00"	(40" x 30" B&B&R&W)	435.00
12-	4.00-4.50"	(45" x 32" B&B&R&W)	525.00
10-	4.50-5.00"	(50" x 36" B&B&R&W)	645.00
8-	5.00-5.50"	(52" x 38" B&B&R&W)	795.00
4-	5.50-6.00"	(55" x 39" B&B&R&W)	845.00
2-	6.00-6.50"	(60" x 40" B&B&R&W)	995.00
1-	6.50-7.00"	(65" x 42" B&B&R&W)	1,045.00
2-	7.00-7.50"	(68" x 45" B&B&R&W)	1,095.00
1-	7.50-8.00"	(70" x 46" B&B&R&W)	1,245.00
1-	8.00-8.50"	(72" x 48" B&B&R&W)	1,325.00



Quercus velutina, BLACK OAK (70')

Black Oaks are native here to central Ohio, growing primarily on our hills and slopes with the Red, White, and Scarlet Oaks. A tree resembling in stature the Northern Red Oak and the Scarlet Oak. All become large trees, are very hardy, tolerating generally the same soil conditions. Specifically, all three natively prefer good drainage and actually in the wild, grow on shady, gravelly, shale hills and ridges. They are deep rooted, and attain great age. In lumbering, all three are normally sold for Northern Red Oak. Leaves have moderately deep lobes that are needle thin with softly pointed stipules. Leaves turn brown in mid-Autumn and hold into the winter months often until March 1st or later. Buds begin to swell and literally push off the leaf petioles. Strong, sturdy branches appear dark in color, and are a favorite playground for squirrels. Culture: Prefers to be transplanted into a silt clay soil with ample moisture. pH 5.5 to 6.0. Sun or semi-shade. Zone 3.

Inventory Available	Height or Caliper	Ball Size	Each Price
5-	2.50-3.00"	(32-34" B&B&R&W)	275.00
30-	3.00-3.50"	(38" B&B&R&W)	345.00
20-	3.50-4.00"	(42" B&B&R&W)	435.00
10-	4.00-4.50"	(45" B&B&R&W)	525.00
2-	4.50-5.00"	(50" B&B&R&W)	645.00
1-	5.00-5.50"	(52" B&B&R&W)	795.00
1-	5.50-6.00"	(52-55" B&B&R&W)	845.00
1-	6.00-6.50"	(54-58" B&B&R&W)	995.00
1-	6.50-7.00"	(56-60" B&B&R&W)	1,045.00

Large Oaks can be priced special 'in the ground' pricing and them moved with a large tree spade, using an 80-90" spade. Ask us for special quotes, availability and feasibility in your special sites. All plants are different and special prices need to be calculated. We do have the trees and that where it starts, with the grower!

***Quercus x warei* 'Long', REGAL PRINCE OAK (40-60' tall x 20-25' spread)**

(PPAF). From Heritage Trees, Inc., this vigorous Oak results from a *Q. robur fastigiata* (Upright English Oak) and *Q. bicolor* (Swamp White Oak) cross and has a distinctive upright oval habit. Beautiful all season long, the foliage has attractive silvery lower surfaces. It is tolerant of a wide range of soil types, wet and dry. Yellowish-brown fall foliage color. Zones 4-7.

20-	1.25-1.50"	(21" x 15" B&B&R&W)	124.00
20-	1.50-1.75"	(24" x 18" B&B&R&W)	150.00
5-	1.75-2.00"	(26" x 20" B&B&R&W)	175.00
2-	2.00-2.50"	(28" x 22" B&B&R&W)	195.00



Brian Wade beside a planting of
of
Quercus robur 'Crimson Spire'
Crimson Spire Pyramidal
English Oak

A field of
Quercus palustris
Pin Oak





Quercus coccinea
Scarlet Oak



Brian Wade
with a special
group of
Quercus rubra
Red Oak



Large *Quercus rubra*, Red Oaks in our nursery fields.



