

UNDER-UTILIZED NATIVE PLANTS OF OKLAHOMA

BY RYAN DOMNICK

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UNDER UTILIZED NATIVE PLANTS FOR LANDSCAPE USE IN OKLAHOMA

RESEARCH TEXT BY RYAN DOMNICK, 1999-2000.

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DEFINITION OF A NATIVE PLANT

TO PLACE A FINITE DEFINITION ON THE TERM "NATIVE PLANT" PROVES TO BE A DIFFICULT TASK. THE GEOGRAPHIC RANGE OF A PLANT MAY RANGE FROM A VERY LARGE REGION (EASTERN RED CEDAR), TO A SMALL LOCALIZED MICROCLIMATE (QUARTZ MOUNTAIN LIVE OAK), OR IT MAY EXIST IN SEVERAL DISJUNCT POPULATIONS (AMERICAN SMOKE TREE). IN MANY CASES, THERE ARE QUESTIONS ABOUT THE ORIGINAL NATIVE RANGE OF A SPECIES THAT IS NOW MORE WIDESPREAD (OSAGE ORANGE TREE) OR REDUCED (PAW PAW TREE) DUE TO THE INTENTIONAL OR INADVERTENT ACTIONS OF HUMANS. NATIVE RANGES SLOWLY CHANGE OVER TIME AS EVOLUTION AND NATURAL SELECTION OCCUR. WHILE THIS IS A COMPLEX ISSUE, FOR THE PURPOSE OF THIS BOOK, WE WILL USE THE FOLLOWING DEFINITION FOR A NATIVE PLANT: A PLANT THAT HAS BEEN FOUND IN SUFFICIENT ENOUGH NUMBERS TO SURVIVE IN A PARTICULAR AREA CONSISTENTLY FOR THE PREVIOUS 500 YEARS.

ALTHOUGH A PARTICULAR PLANT HAS A LIMITED NATIVE RANGE, IT MAY OR MAY NOT BE CONFINED EXCLUSIVELY TO THAT AREA. NATIVES WILL DO FINE OUTSIDE THEIR NATIVE RANGE IF THE APPROPRIATE ENVIRONMENTAL CONDITIONS ARE MET. SPECIFIC CULTIVARS THAT HAVE BEEN DISCOVERED IN OKLAHOMA ARE ALSO FAIRLY INCLUDED IN THIS BOOK UNDER THE NATIVE PLANT UMBRELLA. AN EXOTIC PLANT BY CONTRAST IS SIMPLY A SPECIES OR CULTIVAR THAT IS GROWING FAR AWAY FROM ITS NATIVE RANGE. NON-NATIVE SPECIES THAT HAVE ESCAPED CULTIVATION AND SURVIVE ON THEIR OWN IN THE WILD ARE REFERRED TO AS NATURALIZED.

WORTHY OF LANDSCAPE USE

IN ORDER FOR A PLANT TO BE WORTHY OF LANDSCAPE USE, THE PLANT MUST POSSESS CERTAIN QUALIFYING ORNAMENTAL CHARACTERISTICS SUCH AS ATTRACTIVE FLOWERS, FRUIT, FOLIAGE, FALL COLOR, BARK, TWIGS, ETC. DESIGN AND FUNCTIONAL CHARACTERISTICS SUCH AS FORM, COLOR, TEXTURE, LONGEVITY, GROWTH RATE, SIZE, ETC. ARE CONSIDERED AS WELL. THE MOST RECOMMENDED PLANTS CONTAIN MANY DESIRABLE CHARACTERISTICS WHILE THE MORE UNFAMILIAR PLANTS CONTAIN ONLY A FEW.

ADVANTAGES OF NATIVE PLANTS

OKLAHOMA'S NATIVE PLANTS HAVE EVOLVED TO OKLAHOMA'S HARSH, UNPREDICTABLE, ENVIRONMENTAL CONDITIONS OVER MANY THOUSANDS OF YEARS. NATIVE PLANTS ARE GENERALLY BETTER FOR CREATING AN ATTRACTIVE, FUNCTIONAL, SELF-SUSTAINING LANDSCAPE WHEN COMPARED TO EXOTIC PLANTS.

NATIVE PLANTS HELP MAINTAIN A HEALTHY ECOSYSTEM. THE NEED TO PROTECT OUR NATIVE FLORA FROM THE ENCROACHMENT OF EXOTICS IS INCREASINGLY CRITICAL. ECOSYSTEM BALANCE, SOIL AND WATER CONSERVATION, WILDLIFE HABITAT, AND GENETIC BIODIVERSITY FOR POTENTIAL HUMAN USE DICTATE THAT WE MUST REESTABLISH NATIVE PLANT SPECIES AND COMMUNITIES WHENEVER POSSIBLE.

THE LANDSCAPE INDUSTRY

THE LANDSCAPE INDUSTRY HAS A LONG HISTORY OF NEGLECTING NATIVE PLANTS IN FAVOR OF OVERUSED EXOTIC PLANTS BUT LANDSCAPING WITH NATIVE PLANTS IS INCREASINGLY POPULAR. THE DESIRE AND THE NEED TO USE NATIVE PLANTS IN PLANNED LANDSCAPES IS STEADILY INCREASING. DEPENDENCE ON AND REPETITIVE USE OF THE SAME 50 TO 100 TRADITIONAL EXOTIC PLANTS HAS CREATED OFTEN BORING, HOMOGENEOUS HOME AND COMMERCIAL LANDSCAPES. BEYOND AESTHETIC CONSIDERATIONS, THE HIGHER COST OF MAINTAINING AN ATTRACTIVE EXOTIC LANDSCAPE IS NO LONGER FEASIBLE OR ECONOMICALLY POSSIBLE.

WE HAVE FAILED TO INVESTIGATE THE POTENTIAL OF VALUABLE NATIVE PLANTS IN OUR OWN ENVIRONMENT. DOING SO WILL LESSEN OUR RELIANCE ON EXOTIC SPECIES AND CAN LEAD TO MORE SUSTAINABLE LANDSCAPES. THERE IS POTENTIAL FOR THE DEVELOPMENT OF CULTIVARS FROM OUR NATIVE SPECIES. IF OUR NATIVE POPULATIONS ARE DIMINISHED, OUR OPPORTUNITY TO DISCOVER NEW CULTIVARS WILL ALSO DIMINISH.

NATIVE PLANT USAGE IN OKLAHOMA IS STILL A VERY NEW IDEA. UNTIL THERE IS SUFFICIENT DEMAND, NATIVE PLANTS AND CULTIVARS WILL CONTINUE TO BE RARE IN OKLAHOMA NURSERY PRODUCTION. AS DEMAND INCREASES, IT WILL BECOME PROFITABLE FOR NURSERIES TO PROPAGATE QUANTITIES COMPARABLE TO THE EXOTIC PLANTS THAT ARE IN PRODUCTION.

EXOTIC PLANTS

EXOTIC PLANTS ARE STILL IMPORTANT IN OUR LANDSCAPES. WHILE IT IS TRUE THAT MANY EXOTIC PLANTS ARE OVERUSED, IT IS IMPORTANT TO KEEP THEM IN OUR PLANT PALATE TO ALLOW A WIDE ARRAY OF OPTIONS. THE KEY IS MODERATION; WE MUST LIMIT THEIR USE AND STOP MONOCULTURE PLANTINGS. A DIVERSE LANDSCAPE IS MORE RESISTANT TO INSECT AND DISEASE PROBLEMS. IN FACT, SOME EXOTIC PLANTS SUCH AS *Nandina domestica* ARE EXTREMELY WELL ADAPTED TO OUR CLIMATE AND ARE RESISTANT TO INSECTS AND DISEASES. HOWEVER, IT CAN TAKE ONLY A FEW SHORT YEARS, OR SOMETIMES DECADES, FOR DISEASE AND INSECT PROBLEMS TO CATCH UP WITH AN OVER-PLANTED SPECIES. EXAMPLES INCLUDE FIRE BLIGHT DISEASE ON BRADFORD PEAR OR PINWOOD NEMATODE ON SCOTCH PINE; THESE WERE HIGHLY TOUTED AS PROBLEM-FREE LANDSCAPE TREES 25 YEARS AGO.

ECOLOGICAL DISASTERS ARE OCCURRING BECAUSE SOME EXOTIC PLANTS, HAVING ESCAPED CULTIVATION, ARE REPRODUCING AT AN EXPONENTIAL RATE. THIS SOMETIMES OCCURS WHEN AN EXOTIC PLANT WITH INVASIVE TENDENCIES IS TOO WELL ADAPTED TO OUR CLIMATE AND HAS NO NATURAL ENEMIES. DAMAGE TO THE ENVIRONMENT OCCURS WHEN AN EXOTIC AGGRESSIVELY CROWDS OUT NATIVE PLANT COMMUNITIES, CAUSING THE FOLLOWING PROBLEMS: DISRUPTION OF ECOLOGICAL CYCLES, DESTRUCTION OF WILDLIFE HABITAT, AND ALTERATION OF FOOD CHAINS. BILLIONS OF DOLLARS ARE SPENT EACH YEAR ACROSS THE UNITED STATES TO COMBAT THIS PROBLEM. A FEW EXAMPLES OF INVASIVE EXOTICS INCLUDE: JOHNSON GRASS, DANDELION, KUDZU VINE, TREE OF HEAVEN, BIG LEAF PERIWINKLE, ROYAL PAULOWNIA, MIMOSA TREE, PURPLE LOOSESTRIFE, JAPANESE HONEYSUCKLE, AND TAMARISK.

THE PURPOSE

THIS BOOK IS INTENDED TO SHOWCASE UNDER-UTILIZED OKLAHOMA NATIVE PLANTS. SOME OF THE MORE COMMON NATIVE PLANTS THAT HAVE ALREADY BEEN SUCCESSFULLY INTRODUCED IN THE LANDSCAPE INDUSTRY HAVE BEEN OMITTED (BALD CYPRESS, SYCAMORE, SWEET GUM, EASTERN REDBUD). EACH PLANT LISTING IS COMPLETE WITH PICTURES, LANDSCAPE EVALUATION, KEY ADVANTAGES, KEY DISADVANTAGES, DESIGN CHARACTERISTICS, HABITAT, CULTURE, ENVIRONMENTAL TOLERANCE, AND ORNAMENTAL QUALITIES. IT IS MY GOAL TO SEE EACH OF THESE WELL-QUALIFIED NATIVE PLANTS OR IMPROVED CULTIVARS INTEGRATED INTO THE LANDSCAPE INDUSTRY WITHIN THE NEXT 20 YEARS.



CADDO
SUGAR MAPLE

Acer saccharum 'Caddo'

LANDSCAPE EVALUATION.

THE WICHITA MOUNTAINS AND SANDSTONE CANYONS OF CADDO AND COMMANCHE COUNTIES SUPPORT A DISJUNCT WESTERN POPULATION OF SUGAR MAPLES. THIS CULTIVAR 'CADDO', IT'S AN EXCELLENT TREE FOR MOST OF WESTERN TO CENTRAL OKLAHOMA WHERE SOILS ARE POOR AND DROUGHTY. 'CADDO' SHOULD BE USED FOR SMALL TO LARGE SCALE RESIDENTIAL ESTATES, GOLF COURSES, AND NEIGHBORHOOD SUBDIVISIONS .

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *VERY DURABLE, STRONG WOOD
- *TOLERATES DRY, SANDY, INFERTILE SOIL
- *DENSE ATTRACTIVE PEST RESISTANT FOLIAGE WITH EXCELLENT FALL COLOR.

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS.
- *MAY CONTRACT DISEASES IN THE EAST

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 30-40' x 20-30'
 GROWTH RATE: MEDIUM; 12"-24"/YEAR
 TEXTURE/FORM: MEDIUM, OBOVOID
 LONGEVITY: 100-200 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY ROCKY HILLS, SANDY VALLEYS
 SOIL: ROCKY TO SANDY LOAM
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 6.0-8.0
 EXPOSURE: FULL SUN
 MOISTURE: AVERAGE TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-8
 DISEASE: MODERATE, VERTICILLIUM WILT
 INSECT: RESISTANT
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, 5 LOBED, OPPOSITE, THICK
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: RED, ORANGE, YELLOW
 FLOWER: INSIGNIFICANT, BELL SHAPED
 SEASON: APRIL, MAY
 FRUIT: PAIRED SAMARAS
 BARK/STEM: BROWN, DEEPLY FURROWED



**RED
BUCKEYE**



Aesculus pavia

LANDSCAPE EVALUATION

VERY ATTRACTIVE SMALL TREE WITH RED FLOWERS AND HANDSOME DARK GREEN UNUSUAL FOLIAGE. LANDSCAPE UTILIZATION SHOULD BE AKIN TO OTHER SMALL SCALE TREES SUCH AS EASTERN RED BUD. USEFUL IN SHELTERED PLAZAS, RESIDENTIAL COURTYARDS, WOODED AREAS, GOLF COURSES AND PARKS.

KEY ADVANTAGES

- * VERY ATTRACTIVE RED FLOWERS.
- * COMPACT, NEAT GROWTH HABIT.
- * NATURAL VARIATION ALLOWS FOR MANY CULTIVARS IN THE FUTURE.
- * FLOWERS WELL IN DENSE SHADE

KEY DISADVANTAGES

- * DIFFICULT TO TRANSPLANT
- * FOLIAGE BECOMES TATTERED AND DROPS EARLY IN THE FALL.
- * SENSITIVE TO UNFAVORABLE SITE CONDITIONS AND MICROCLIMATES

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
MATURE HT & WT: 12-20'x 15-25'
GROWTH RATE: SLOW TO MED, 6-12"/YR
TEXTURE/Form: COARSE, GLOBULAR
LONGEVITY: 75-100 YEARS
INVASIVENESS: NO
POISONOUS: ALL PARTS POISONOUS

HABITAT & CULTURE

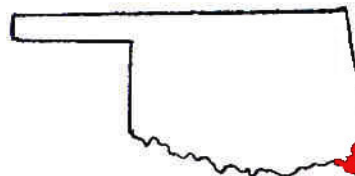
HABITAT: FOREST, SAVANNA, VALLEYS
SOIL: DEEP COURSE TO FINE LOAMS
DRAINAGE: MODERATELY POOR TO WELL
pH : 5.0-7.5
EXPOSURE: MOD. SHADE TO MOD. SUN
MOISTURE: MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6a-8
DISEASE: MODERATE; MILDEW
INSECT: RESISTANT
WIND/ICE: RESISTANT; MOD. STRONG WOOD
DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: PALMATELY COMPOUND
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: BROWN, NOT PERSISTENT
FLOWER: RED SPIKE
SEASON: MID -LATE MAY
FRUIT: LIGHT BROWN NUT
BARK/STEM: SMOOTH, RED BROWN



SEASIDE
ALDER



Alnus maritima

LANDSCAPE EVALUATION

SEASIDE ALDER IS A FIRST SUCCESSION TREE IN FOREST ECOLOGY, SPECIFICALLY NEAR STREAMS AND LAKES. IT IS HIGHLY VALUED FOR ITS ABILITY TO THRIVE IN WET SOILS, AND FIX ATMOSPHERIC NITROGEN INTO AN USABLE FORM. IT SHOULD BE USED FOR ANY OF THE FOLLOWING APPLICATIONS IF WET SOIL IS PRESENT: EROSION CONTROL, WETLANDS, PARKS, RESIDENTIAL, AND INDUSTRIAL. SEASIDE ALDER SHOULD BE USED IN THE EASTERN HALF OF THE STATE WITH ACIDIC SOILS WHERE ITS TENDENCY TO SPREAD FROM ROOT SUCKERS AND FORM COLONIES WOULD NOT BE A PROBLEM.

KEY ADVANTAGES

*VERY HANDSOME ORNAMENTAL ASSETS; INTERESTING LEAVES, FRUIT, & FLOWER

KEY DISADVANTAGES

*WEAK WOODED; TENDENCY TO BREAK
*LIMITED LANDSCAPE UTILIZATION
*WILL NOT TOLERATE DROUGHT

DESIGN CONSIDERATIONS

CLASS: VERY LARGE DECIDUOUS SHRUB
MATURE HT X WT: 8-15' X 6-12'
GROWTH RATE: MEDIUM; 12"-24"/ YEAR
TEXTURE/FORM: MEDIUM, IRREGULAR
LONGEVITY: 50-75 YEARS
INVASIVENESS: YES, WET AREAS
POISONOUS: NO

HABITAT & CULTURE

HABITAT: BOGGS, STREAMS, FLOOD PLAINS
SOIL: SILTY LOAM, SAND, ORGANIC SOILS
DRAINAGE: EXTREMELY POOR TO MODERATE
pH: 5.0-7.0
EXPOSURE: MODERATE TO FULL SUN
MOISTURE: EXTREMELY MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-10
DISEASE: RESISTANT
INSECT: MODERATE; MANY, NON SERIOUS
WIND/ICE: VERY SUSCEPTIBLE; WEAK WOOD
DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, GLOSSY
SPRING/SUMMER COLOR: GREEN
FALL COLOR: YELLOW, BROWN
FLOWER: ATTRACTIVE BRONZE CATKIN
SEASON: JUNE
FRUIT: EGG SHAPED NUTLET
BARK/STEM: GRAY, SMOOTH





**LEAD-PLANT
AMORPHA**

Amorpha canescens

LANDSCAPE EVALUATION

LEAD PLANT FORMS A MOUNDED 3-4' HIGH SHRUB; TOP GROWTH IS CUT TO THE GROUND EVERY THREE YEARS FOR REJUVENATION. IT FORMS A NETWORK OF SHALLOW, NITROGEN-FIXING ROOTS THAT PERPETUATE COLONY THROUGH SUCKERS WHEN TOP GROWTH DIES. USEFUL FOR RESIDENTIAL, COMMERCIAL, MASS PLANTINGS, HIGHWAYS, & PARKS.

KEY ADVANTAGES

- *GRAY GREEN FERN LIKE LEAVES
- *SHOWY LONG LASTING FLOWERS- BLUE TO DEEP PURPLE W/ ORANGE STAMENS
- *INVASIVE, BUT EASY TO ERADICATE.
- *VALUABLE GROUNDCOVER/ SHRUB FOR DRY, OPEN AREAS, WHERE FEW OTHER SUITABLE PLANTS WILL GROW.

KEY DISADVANTAGES

- *VERY INTOLERANT OF SHADE
- *VERY SHORT LIVED IF SOIL IS TOO RICH AND DRAINAGE ISN'T ADEQUATE.

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS SHRUB
 MATURE HT X WT: 2-5' x 4-8'
 GROWTH RATE: MEDIUM; 8-16"/ YEAR
 TEXTURE/Form: FINE, MOUNDED
 LONGEVITY: 5-10 YRS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY ROCKY UPLANDS, GRASSLANDS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 7.0-8.5
 EXPOSURE: FULL SUN
 MOISTURE: MOD. DRY TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4a-9
 DISEASE: MODERATE; NON SERIOUS
 INSECT: RESISTANT, SOME CHEWING INSECTS
 WIND/ICE: MOD.; LOW GROWTH, WEAK WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: PINNATELY COMPOUND, PUBESCENT
 SPRING/SUMMER COLOR: GREY-GREEN
 FALL COLOR: BRILLIANT RED, LONG LASTING
 FLOWER: BLUE/PURPLE CYLINDRIC SPIKE
 SEASON: MID TO LATE JULY
 FRUIT: INSIGNIFICANT BLACK POD
 BARK/STEM: GRAY, SMOOTH, EXFOLIATING





**PORCELAIN
BERRY**

Ampelopsis cordata

LANDSCAPE EVALUATION

PORCELAIN BERRY DISPLAYS GREAT LANDSCAPE POTENTIAL FOR MOIST SOIL AREAS IN MOST OF OKLAHOMA, BUT SHOULD NOT BE USED IN SMALL AREAS BECAUSE IT QUICKLY OUTGROWS THE SITE. THIS EXTREMELY VIGOROUS VINE WILL ADAPT TO A VARIETY OF DESIRED FORMS; TALL CLIMBING VINE, DENSE SHRUB, OR GROUND COVER. USE FOR: LONG FENCES, EROSION CONTROL, OPEN AREAS & SCREENING UNSIGHTLY OBJECTS

KEY ADVANTAGES

- *EXTREMELY FAST GROWTH POTENTIAL; GOOD FOR IMMEDIATE BUT TEMPORARY RESULTS-TOLERANT OF HEAVY PRUNING
- *ATTRACTIVE MULTI-COLORED FRUITS-CHANGING FROM GREEN TO ORANGE TO ROSY PURPLE, THEN TURQUOISE BLUE

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION.
- *REQUIRES FREQUENT PRUNING

DESIGN CONSIDERATIONS

CLASS:VERY LARGE DECIDUOUS VINE
 MATURE HT X WT: 15-35' x 10-30'
 GROWTH RATE: VERY FAST; 8'-15'/ YR
 TEXTURE/FORM: MEDIUM, VARIABLE
 LONGEVITY: 15-30 YEARS
 INVASIVENESS: YES
 POISONOUS:NO

HABITAT & CULTURE

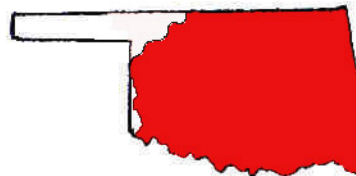
HABITAT: FORESTS, RIVERBANKS, PRAIRIE
 SOIL: SILT LOAMS, CLAYS, SANDS, ROCKY
 DRAINAGE: VERY POOR TO AVERAGE
 pH: 6.1-7.5
 EXPOSURE: MOD. SHADE TO FULL SUN
 MOISTURE: VERY MOIST TO MOD. DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5b-9
 DISEASE: RESISTANT
 INSECT: RESISTANT; SOME CHEWING INSECTS
 WIND/ICE:SUSCEPTIBLE;WEAK,HOLLOW STEMS
 DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: LARGE, SIMPLE, CORDATE, ALT.
 SPRING/SUMMER COLOR: BRIGHT GREEN
 FALL COLOR: YELLOW, EARLY TO COLOR
 FLOWER: INSIGNIFICANT WHITE CLUSTERS
 SEASON: MAY- JUNE
 FRUIT: 1/3" MULTI-COLORED BERRY
 BARK/STEM: DARK BROWN, FURROWED





**RED
CHOKEBERRY**

***Aronia arbutifolia* 'Brilliantissima'**

LANDSCAPE EVALUATION

RED CHOKEBERRY IS A FIRST SUCCESSION SHRUB IN FOREST ECOLOGY SHARING A SIMILAR HABITAT WITH LOBLOLLY PINE AND BALD CYPRESS , SPECIFICALLY NEAR STREAMS AND LAKES. HIGHLY VALUED FOR ITS ABILITY TO THRIVE IN WET SOILS, IT SHOULD BE USED FOR ANY OF THE FOLLOWING APPLICATIONS IF WET SOIL IS PRESENT: EROSION CONTROL BACKGROUND PLANTINGS, HIGHWAYS, RECLAMATION WETLANDS, PARKS, AND INDUSTRIAL SITES. USE SHOULD BE LIMITED TO THE EASTERN HALF OF THE STATE WITH ACIDIC SOILS WHERE ITS TENDENCY TO SPREAD FROM ROOT SUCKERS AND FORM COLONIES WOULDN'T BE A PROBLEM.

KEY ADVANTAGES

- *CULTIVAR; HIGH ORNAMENTAL ASSETS; FRUIT, FLOWER, SUMMER & FALL COLOR
- *GROWS IN SATURATED OR DRY SOIL

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION

DESIGN CONSIDERATIONS

CLASS: VERY LARGE DECIDUOUS SHRUB
 MATURE HT X WT: 8-15' X 6-12'
 GROWTH RATE: MEDIUM; 12"-24"/ YEAR
 TEXTURE/FORM: MEDIUM, IRREGULAR
 LONGEVITY: 50-75 YEARS
 INVASIVENESS: YES, WET AREAS
 POISONOUS: NO

HABITAT & CULTURE

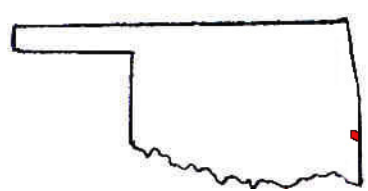
HABITAT: BOGGS, STREAMS, FLOOD PLAINS
 SOIL: SILTY LOAM,SAND, ORGANIC SOILS
 DRAINAGE: EXTREMELY POOR TO MOD. WELL
 pH: 5.0-6.5
 EXPOSURE: MODERATE TO FULL SUN
 MOISTURE: EXTREMELY MOIST TO MOD. DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-10
 DISEASE: RESISTANT
 INSECT: MODERATE; MANY, NON SERIOUS
 WIND/ICE: RESISTANT; MOD. STRONG WOOD
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: RICH ORANGE/RED, PERSISTS
 FLOWER: WHITE, FLATTENED CLUSTERS
 SEASON: LATE MAY
 FRUIT: 1/3" RED BERRY, MANY CLUSTERS
 BARK/STEM: RED/BROWN, EXFOLIATING





**PAW PAW
TREE**

Asimina triloba

LANDSCAPE EVALUATION

ALTHOUGH PAW PAW IS AN ATTRACTIVE AND INTRIGUING NATIVE TREE, IT HAS LIMITED LANDSCAPE USE AND IS QUITE PICKY ABOUT ENVIRONMENTAL MICROCLIMATES. IN THE LANDSCAPE, IT SERVES AS A NOVELTY SPECIMEN PLANT OR NATURALISTIC GROUPING DUE TO ITS TENDENCY TO SLOWLY COLONIZE FROM ROOT SUCKERS.

KEY ADVANTAGES

- *ATTRACTIVE FLOWERS & FRUIT
- *FRUIT HAS COMMERCIAL POTENTIAL- IT IS VERY NUTRITIOUS AND DELICIOUS
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *WILL NOT TOLERATE DROUGHT NOR HEAT WITHOUT IRRIGATION.
- *DIFFICULT TO TRANSPLANT AND PROPAGATE, RARE IN NURSERY TRADE
- *WEAK WOODED; TENDENCY TO BREAK
- *LIMITED LANDSCAPE UTILIZATION

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
MATURE HT X WT: 15-30' X 15-25'
GROWTH RATE: SLOW; 6"/YEAR
TEXTURE/FORM: COARSE, PYRAMIDAL
LONGEVITY: 75-150 YEARS
INVASIVENESS: NO, BUT WILL SUCKER
POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

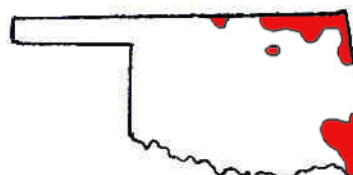
HABITAT: DENSE FORESTS, RIVERBANKS
SOIL: RICH, MEDIUM TO FINE SILT LOAMS
DRAINAGE: WELL
pH: 6.0-8.0
EXPOSURE: FULL SHADE TO MODERATE SUN
MOISTURE: MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 5-8
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: VERY SUSCEPTIBLE, WEAK WOOD
DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: LARGE, SIMPLE, ALTERNATE, DULL
SPRING/SUMMER COLOR: MEDIUM GREEN
FALL COLOR: YELLOW
FLOWER: 1" PURPLE/REDDISH BROWN
SEASON: APRIL
FRUIT: 2-5" BANANA/PEAR-LIKE EDIBLE FRUIT
BARK/STEM:ATTRACTIVE, FURROWED, BROWN



CROSS
VINE



Bignonia capreolata

LANDSCAPE EVALUATION

CROSS VINE DISPLAYS GREAT LANDSCAPE POTENTIAL FOR MOIST OR DRY SOIL AREAS IN MOST OF OKLAHOMA, BUT SHOULD NOT BE USED IN SMALL AREAS BECAUSE IT QUICKLY OUTGROWS THE SITE. UNIQUE IN THAT IT'S ONE OF THE ONLY OKLAHOMA NATIVE EVER-GREEN VINE WITH ATTRACTIVE FLOWERS. USE FOR: LONG FENCES, NATURALIZING, LARGE RESIDENTIAL, ARBORS & SCREENING UNSIGHTLY OBJECTS

KEY ADVANTAGES

- *FAST GROWTH RATE; IMMEDIATE RESULTS -TOLERANT OF HEAVY PRUNING
- *LONG LIVED, NO MAJOR PROBLEMS
- *HIGH ORNAMENTAL QUALITIES

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION.
- *REQUIRES FREQUENT PRUNING
- *LEAF & STEM DIEBACK SOMETIMES OCCUR IN NORTH FROM HARSH WINTERS

DESIGN CONSIDERATIONS

CLASS:VERY LARGE EVERGREEN VINE
MATURE HT X WT: 15-35' x 10-30'
GROWTH RATE: VERY FAST; 5'-10'/ YR
TEXTURE/Form: MEDIUM, VARIABLE
LONGEVITY: 75-125 YEARS
INVASIVENESS: YES
POISONOUS:NO

HABITAT & CULTURE

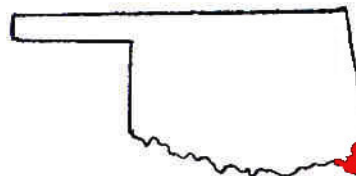
HABITAT: FOREST, SAVANNA, VALLEYS
SOIL: COARSE TO MOD. FINE LOAMS
DRAINAGE: POOR TO WELL
pH: 6.0-8.0
EXPOSURE: MODERATE TO FULL SUN
MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 6a-9b
DISEASE: MODERATE; SOME LEAF SPOT
INSECT: RESISTANT
WIND/ICE:MODERATE; WEAK, HOLLOW STEMS
DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, OPPOSITE, GLOSSY
SPRING/SUMMER COLOR:DARK GREEN
FALL COLOR: GREENISH PURPLE
FLOWER: 2-3" ORANGE/RED TRUMPET
SEASON: LATE MAY- EARLY JUNE
FRUIT: DRY LEATHERY POD, NOT SHOWY
BARK/STEM: ROUGH, DARK GRAY





CHITTAMWOOD
TREE

Bumelia lanuginosa

LANDSCAPE EVALUATION

THIS BEAUTIFUL UNDER-UTILIZED TREE HAS PLENTY OF MERIT IN THE LANDSCAPE INDUSTRY. WIDE VARIETY OF USES INCLUDE: FLOODPLAIN PARKS, PONDS RIVER GREENWAYS, NEIGHBORHOOD SUBDIVISIONS, NATURALIZING, GOLF COURSES, AND WETLAND RECLAMATION

KEY ADVANTAGES

- *ABILITY TO THRIVE IN WETLAND SITES TO DRY ROCKY BARREN CONDITIONS. AS WELL AS EVERYTHING IN BETWEEN.
- *ATTRACTIVE, FINE TEXTURED FOLIAGE.
- *OPEN CANOPY, ALLOWS HEALTHY GRASS GROWTH UNDERNEATH.
- *CULTIVARS COULD BE SELECTED FROM IMMENSE VARIABILITY EXHIBITED IN NATURE, SUCH AS "THORNLESS"

KEY DISADVANTAGES

- *UNDESIRABLE THORNS
- *NOT AVAILABLE IN NURSERY TRADE
- *SOFT, HEAVY WOOD MAY BREAK IN WIND OR ICE STORMS.

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 35-45' X 25-35'
 GROWTH RATE: FAST; 24"/YEAR
 TEXTURE/FORM: FINE, OBOVOID
 LONGEVITY: 75-150 YEARS
 INVASIVENESS: NO
 POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

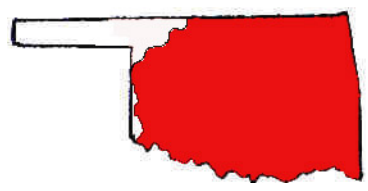
HABITAT: BOGGS TO DRY HILLSIDE FORESTS
 SOIL: CLAY, LOAM, SAND AND ROCKY SOILS
 DRAINAGE: EXTREMELY POOR TO WELL
 pH : 4.5-7.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: EXTREMELY MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6b-10
 DISEASE: RESISTANT
 INSECT: RESISTANT
 WIND/ICE: SUSCEPTIBLE; WEAK WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, OVAL, WHORLED
 SPRING/SUMMER COLOR: GREEN
 FALL COLOR: YELLOW, BROWN
 FLOWER: INSIGNIFICANT, WHITE COROLLA
 SEASON: JUNE
 FRUIT: PURPLISH BLACK , EDIBLE BERRIES, 3/8"
 BARK/STEM: BLOCKY, BROWN





**TRUMPET
CREEPER**

Campsis radicans

LANDSCAPE EVALUATION

TRUMPET VINE IS A BEAUTIFUL ORNAMENTAL VINE WITH LARGE ORANGE FLOWERS AND GLOSSY GREEN FOLIAGE. ONE SHOULD BE ABSOLUTELY SURE WHEN SELECTING THIS PLANT FOR IT WILL BECOME A PERMANENT PART OF THE LANDSCAPE DUE TO IT'S UNPARALLELED ENVIRONMENTAL TOLERANCE. DON'T USE IN SMALL AREAS BECAUSE IT QUICKLY OUTGROWS THE SITE. USE FOR: FENCES, ARBORS, EROSION CONTROL, HIGHWAYS, RESIDENTIAL & SCREENING OBJECTS.

KEY ADVANTAGES

- *FAST GROWTH RATE; IMMEDIATE RESULTS -TOLERANT OF HEAVY PRUNING
- *LONG LIVED, NO MAJOR PROBLEMS
- *HIGH ORNAMENTAL QUALITIES

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION.
- *REQUIRES FREQUENT PRUNING OF FENCE
- *CAN BE EXTREMELY INVASIVE

DESIGN CONSIDERATIONS

CLASS:VERY LARGE EVERGREEN VINE
 MATURE HT X WT: 15-35' x 10-30'
 GROWTH RATE: VERY FAST; 5'-10'/ YR
 TEXTURE/Form: MEDIUM, VARIABLE
 LONGEVITY: 75-125 YEARS
 INVASIVENESS:YES, IN MOIST, RICH SOILS
 POISONOUS: NO

HABITAT & CULTURE

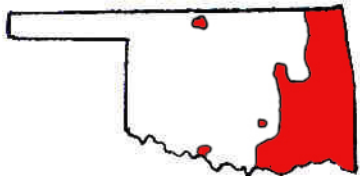
HABITAT: FOREST, SAVANNA, VALLEYS
 SOIL: COARSE TO MOD. FINE LOAMS
 DRAINAGE: POOR TO WELL
 pH: 6.0-8.0
 EXPOSURE: MODERATE TO FULL SUN
 MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 6a-9b
 DISEASE: VERY RESISTANT; SOME LEAF SPOT
 INSECT: VERY RESISTANT
 WIND/ICE:SUSCEPTIBLE; WEAK, STEMS
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, OPPOSITE, GLOSSY
 SPRING/SUMMER COLOR:DARK GREEN
 FALL COLOR: GREENISH PURPLE
 FLOWER: 2-3" ORANGE/RED TRUMPET
 SEASON: LATE MAY- EARLY JUNE
 FRUIT: LARGE DRY BROWN POD, SHOWY
 BARK/STEM: SMOOTH, BEIGE, EXFOLIATING





**AMERICAN
HORNBEAM**

Carpinus caroliniana

LANDSCAPE EVALUATION

A EXCELLENT SMALL TO MEDIUM TREE WITH DENSE, TIDY GROWTH HABIT. AN USEFUL TREE FOR ANY LOW LYING AREA THAT FLOODS OCCASIONALLY OR CONTAINS POORLY DRAINED SOILS. USE IN PARKS, RIVER GREENWAYS, OR URBAN SITES WHERE POLLUTION AND SOIL COMPACTION AREN'T A PROBLEM.

KEY ADVANTAGES

- *DENSE ATTRACTIVE FOLIAGE
- *EXCELLENT SHADE TOLERANCE
- *EXCELLENT FALL COLOR
- *EXTREMELY STRONG DENSE WOOD
- *VERSATILE; SPECIMEN OR GROUPING
- *TOLERATES POOR DRAINAGE

KEY DISADVANTAGES

- *SENSITIVE TO POLLUTION IN URBAN SITES WITH HEAVY TRAFFIC
- *NOT SUITABLE FOR DROUGHTY SITES
- *SENSITIVE TO SOIL COMPACTION AND CONSTRUCTION DAMAGE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 25-40' x 20-35'
 GROWTH RATE: SLOW; 8"/YEAR
 TEXTURE/FORM: MEDIUM, OBOVOID
 LONGEVITY: 100-150 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

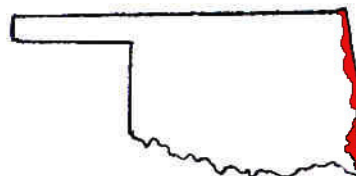
HABITAT: FORESTS, RIVERBANKS, PRAIRIE
 SOIL: RICH, MEDIUM TO FINE SILT LOAMS
 DRAINAGE: POOR TO WELL
 pH: 5.5-7.5
 EXPOSURE: FULL SHADE TO MODERATE SUN
 MOISTURE: VERY MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3-9
 DISEASE: RESISTANT
 INSECT: RESISTANT
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, OVAL
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: RED, ORANGE, YELLOW
 FLOWER: INSIGNIFICANT, CATKINS
 SEASON: APRIL, MAY
 FRUIT: INSIGNIFICANT, SAMURA
 BARK/STEM: SMOOTH IRREGULARLY FLUTED



PECAN
TREE



Carya illinoensis

LANDSCAPE EVALUATION

WHEN APPLIED IN CORRECT SITUATIONS, PECAN IS A WORTH-WHILE NATIVE LANDSCAPE TREE; EFFORT SHOULD BE TAKEN TO PRESERVE STANDS OF THIS TREE DURING CONSTRUCTION. USEFUL ALONG RIVER GREENWAYS, PARKS, GOLF COURSES, LARGE SCALE RESIDENTIAL, NATURALIZING, FLOOD PLAINS, FOREST PRESERVATIONS AND OPEN SPACES.

KEY ADVANTAGES

- *VERY LONG LIVED, DESPITE DISEASES
- *VERY HIGH WILDLIFE VALUE
- *ATTRACTIVE AS NATURAL GROVE IN ITS NATIVE HABITAT IN LOW LANDS & RIVERS

KEY DISADVANTAGES

- *LOTS OF LEAF, TWIG, AND FRUIT LITTER
- *EXTREMELY DIFFICULT TO TRANS-PLANT DUE TO DEEP TAP ROOT
- *SERIOUS INSECT ATTACKS MAY COMPLETELY DEFOLIATE CANOPY; WEB-WORMS, TWIG GIRDLER, & MANY OTHERS

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
MATURE HT X WT: 75-100' x 60-90'
GROWTH RATE: SLOW; 8"-12"/YEAR
TEXTURE/FORM: MEDIUM, OBOVOID
LONGEVITY: 200-300 YEARS
INVASIVENESS: NO, BUT SEEDS READILY
POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT: FORESTS, FLOOD PLAINS, RIVERS
SOIL: RICH, MEDIUM TO FINE SILT LOAMS
DRAINAGE: POOR TO WELL
pH: 6.5-7.5
EXPOSURE: MODERATE SUN TO FULL SUN
MOISTURE: VERY MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 6-9
DISEASE: RESISTANT
INSECT: VERY SUSCEPTIBLE, NUMEROUS
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: PINNATELY COMPOUND, ALT.
SPRING/SUMMER COLOR: GREEN
FALL COLOR: YELLOW, NOT PERSISTENT
FLOWER: INSIGNIFICANT, CATKIN
SEASON: MAY
FRUIT: PECAN, COMMERCIAL VALUE, MESSY
BARK/STEM: ATTRACTIVE, DEEPLY FURROWED



JERSEYTEA
CEANOTHUS

Ceanothus americanus

LANDSCAPE EVALUATION

JERSEY TEA CEANOTHUS FORMS A VERY DENSE, COMPACT, 2-3' HIGH GROUND COVER/SHRUB. THE KEY TO IT'S ABILITY TO WITHSTAND INHOSPITABLE ENVIRONMENTAL CONDITIONS LIES IN IT'S MASSIVE NITROGEN-FIXING ROOT SYSTEM. USEFUL FOR RESIDENTIAL, COMMERCIAL, URBAN PLAZAS, HILLSIDES, MASS PLANTINGS, HIGHWAYS, WOODED AREAS, STREETSCAPES, NATURALIZING, EROSION CONTROL, AND UPLAND PARKS.

KEY ADVANTAGES

- *VALUABLE GROUND COVER FOR DRY, STEEPLY, SLOPING AREAS WHERE FEW OTHER SUITABLE PLANTS WILL GROW.
- *VERY ADAPTABLE WIDESPREAD RANGE
- *COMPACT, NEAT GROWTH HABIT.
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *VERY DIFFICULT TO TRANSPLANT.
- *WILL LANGUISH IN WET SOILS.

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS SHRUB
MATURE HT X WT: 2-5' x 4-8'
GROWTH RATE: SLOW TO MED; 8-14"/YR
TEXTURE/FORM: FINE, SPREADING
LONGEVITY: 5-10 YRS, ROOTS LONGER
INVASIVENESS: YES, RANGE LANDS
POISONOUS: NO, EDIBLE FLOWERS

HABITAT & CULTURE

HABITAT: DRY ROCKY UPLANDS, GRASSLANDS
SOIL: SANDY, ROCKY, OR LOAMY
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 4.5-6.0
EXPOSURE: AVERAGE TO FULL SUN
MOISTURE: DRY TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4-8
DISEASE: RESISTANT; SOME LEAF SPOT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT; LOW GROWTH
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALT., OVATE ROUGH
SPRING/SUMMER COLOR: MEDIUM GREEN
FALL COLOR: DEEP YELLOW, LATE TO COLOR
FLOWER: INSIGNIFICANT WHITE CLUSTERS
SEASON: MAY- JUNE
FRUIT: INSIGNIFICANT ¼ DRY CAPSULE
BARK/STEM: RED/BROWN, LIGHTLY FISSURED





**AMERICAN
BITTERSWEET**

Celastrus scandens

LANDSCAPE EVALUATION

NICE ORNAMENTAL QUALITIES ARE PREVALENT ON BITTERSWEET: GLOSSY GREEN FOLIAGE, NICE FALL COLOR, AND HANDSOME CLUSTERS OF TRIANGULAR ORANGE CAPSULES SPLITTING OPEN TO EXPOSE BRIGHT RED SEEDS IN AUTUMN. THIS VIGOROUS VINE WILL ADAPT TO A VARIETY OF DESIRED FORMS; MEDIUM CLIMBING VINE, DENSE SHRUB, OR GROUND COVER. USE FOR: RESIDENTIAL; FENCES, GROUND COVER, HIGHWAY, HEDGEROWS EROSION CONTROL, BACKGROUND PLANTINGS & FORESTS

KEY ADVANTAGES

- *FAST GROWTH RATE; INSTANT COVER
- *VERSATILE; GROUND COVER/CLIMBER
- *HIGH ORNAMENTAL QUALITIES; FRUITS

KEY DISADVANTAGES

- *TWINING STEMS CAN GIRDLE (KILL) OTHER PLANTS IN THE LANDSCAPE
- *CAN BE INVASIVE IN MOIST, RICH SOIL

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS VINE
 MATURE HT X WT: 6-20' x 8-25'
 GROWTH RATE: VERY FAST; 5'-10'/ YR
 TEXTURE/FORM: MEDIUM, VARIABLE
 LONGEVITY: 75-150 YEARS
 INVASIVENESS: YES, SEEDLINGS
 POISONOUS: YES, FRUITS TOXIC

HABITAT & CULTURE

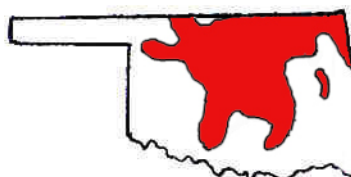
HABITAT: FOREST, SAVANNA, VALLEYS
 SOIL: COARSE TO MOD. FINE LOAMS
 DRAINAGE: MODERATE POOR TO WELL
 pH: 6.0-7.5
 EXPOSURE: MODERATE SHADE TO FULL SUN
 MOISTURE: AVERAGE TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 2-7
 DISEASE: RESISTANT; SOME LEAF SPOT
 INSECT: MODERATE; EUONYMUS SCALE
 WIND/ICE: VERY RESISTANT, STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, GLOSSY
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: LEMON YELLOW
 FLOWER: INSIGNIFICANT GREENISH WHITE
 SEASON: LATE MAY- EARLY JUNE
 FRUIT: ¼-½" ORANGE CAPSULE, RED SEEDS
 BARK/STEM: GRAY, SMOOTH



**SUGAR
HACKBERRY**

Celtis laevigata



LANDSCAPE EVALUATION

SUGAR HACKBERRY, A LARGE-SCALE LANDSCAPE TREE, IS VALUED FOR IT'S ORNAMENTAL CHARACTERISTICS AND IT'S ABILITY TO ADAPT TO DIFFERENT ENVIRONMENTAL CONDITIONS. THIS TREE AND IT'S CULTIVARS SHOULD BE GIVEN MORE OPPORTUNITY TO CONTRIBUTE TO THE LANDSCAPE IN THE FOLLOWING AREAS: NATURALIZING, STREETSCAPES, HIGHWAYS, INDUSTRIAL SITES, GOLF COURSES, PARKS, GREENWAYS, AND POLLUTED URBAN SITES.

KEY ADVANTAGES

- *TOLERATES ANY SOIL CONDITIONS
- *TOLERATES WET OR VERY DRY SOIL
- *CULTIVAR HAS HIGH ORNAMENTAL QUALITIES (ATTRACTIVE FOLIAGE)
- *NICE PICTURESQUE SHAPE WITH AGE.

KEY DISADVANTAGES

- *MAY SUFFER STORM DAMAGE & WINDS
- *SUSCEPTIBLE TO MANY INSECTS

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
MATURE HT X WT: 50-80' x 50-90'
GROWTH RATE: FAST; 2'-3'/ YEAR
TEXTURE/FORM: MEDIUM, GLOBULAR
LONGEVITY: 100-150 YEARS
INVASIVENESS: NO, BUT SEEDS READILY
POISONOUS: NO

HABITAT & CULTURE

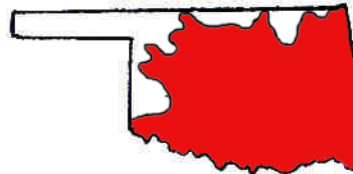
HABITAT: FOREST, PLAINS, SAVANNA, HILLS
SOIL: COARSE TO FINE LOAMS, CLAY, SAND
DRAINAGE: POOR TO WELL
pH: 5.0-8.0
EXPOSURE: AVERAGE TO FULL SUN
MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 3-9
DISEASE: MODERATE; LEAF SPOTS, MILDEW
INSECT: RESISTANT; WITCHES' BROOM
WIND/ICE: MODERATE; MEDIUM STRENGTH
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, THICK, LUSTROUS, ALT.
SPRING/SUMMER COLOR: MED./DARK GREEN
FALL COLOR: YELLOW, NOT PERSISTENT
FLOWER: INSIGNIFICANT, CLUSTERS
SEASON: APRIL
FRUIT: SWEET 1/3" BRONZE-BLACK BERRY
BARK/STEM: ATTRACTIVE, GRAY, SMOOTH





**PRAIRIE PRIDE
HACKBERRY**

***Celtis occidentalis* 'Prairie Pride'**

LANDSCAPE EVALUATION

HACKBERRY MAKES A GREAT TREE FOR DRY OPEN WINDY LOCATIONS WHICH OCCUR FREQUENTLY IN THE WEST AND NORTH PARTS OF OKLAHOMA. ALTHOUGH HACKBERRY PERFORMS BEST IN LOCATIONS WITH RICH, MOIST, SOIL; THIS PROMOTES A FASTER GROWTH RATE WHICH CAN RESULT IN A SHORTENED LIFESPAN. HACKBERRY MAKES AN EXCELLENT NATIVE TREE FOR NATURALIZING, STREETS, HIGHWAYS, INDUSTRIAL SITES, GOLF COURSES, PARKS, GREENWAYS, AND POLLUTED URBAN SITES.

KEY ADVANTAGES

- *TOLERATES ANY SOIL CONDITIONS
- *CULTIVAR RESISTS WITCHES' BROOM
- *CULTIVAR HAS HIGH ORNAMENTAL QUALITIES (ATTRACTIVE FOLIAGE)

KEY DISADVANTAGES

- *MAY SUFFER STORM DAMAGE & WINDS
- *SUSCEPTIBLE TO MANY INSECTS

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
 MATURE HT X WT: 50-80' x 45-75'
 GROWTH RATE: FAST; 2'-3'/ YEAR
 TEXTURE/Form: MEDIUM, GLOBULAR
 LONGEVITY: 100-150 YEARS
 INVASIVENESS: NO, BUT SEEDS READILY
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: FOREST, PLAINS, SAVANNA, HILLS
 SOIL: COARSE TO FINE LOAMS, CLAY, SAND
 DRAINAGE: POOR TO WELL
 pH: 6.0-8.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 3-9
 DISEASE: MODERATE; LEAF SPOTS, MILDEW
 INSECT: RESISTANT; WITCHES' BROOM
 WIND/ICE: MODERATE; MEDIUM STRENGTH
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, THICK, LUSTROUS, ALT.
 SPRING/SUMMER COLOR: MED./DARK GREEN
 FALL COLOR: YELLOW, NOT PERSISTENT
 FLOWER: INSIGNIFICANT, CLUSTERS
 SEASON: APRIL
 FRUIT: 1/3" PURPLISH BROWN BERRY
 BARK/STEM: ATTRACTIVE, GRAY, BLOCKY





**NEATLEAF
HACKBERRY**

Celtis reticulata

LANDSCAPE EVALUATION

NEATLEAF HACKBERRY MAKES AN EXCELLENT NATIVE TREE FOR NATURALIZING. GOLF COURSES, PARKS, RIVER GREENWAYS, EROSION CONTROL, STRIP-MINE AREAS AND INDUSTRIAL AREAS.

KEY ADVANTAGES

- * FAST GROWTH WITH STRONG WOOD
- * EASY TO PROPAGATE & TRANSPLANT
- * ATTRACTIVE ORANGE RED FRUITS
- * TOLERATES DRY, SANDY, ROCKY, CLAYISH, INFERTILE SOILS; WET OR DRY
- * ESTABLISHES ITSELF QUICKLY
- * VERY HIGH WILDLIFE VALUE

KEY DISADVANTAGES

- * MAY BECOME WEEDY IN SOME AREAS
- * RATHER SHORT LIFE EXPECTANCY
- * LACK OF OUTSTANDING ORNAMENTAL CHARACTERISTICS LIMITS POPULARITY
- * SERIOUS INSECT ATTACKS DISFIGURE GROWTH AND FORM; NIPPLE GALLS, AND WITCHES BROOM

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 25-40' x 20-30'
 GROWTH RATE: FAST; 24"-36"/ YEAR
 TEXTURE/FORM: MEDIUM, IRREGULAR
 LONGEVITY: 30-60 YEARS
 INVASIVENESS: YES, RANGE LANDS
 POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT: PLAINS, SAVANNA, HILLS, RIVERS
 SOIL: COARSE TO FINE LOAMS, CLAY, SAND
 DRAINAGE: AVERAGE TO EXCESSIVELY WELL
 pH: 6.0-8.0

EXPOSURE: FULL SUN

MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-10

DISEASE: MODERATE, LEAF SPOT, HEART ROT

INSECT: SUSCEPTIBLE; WITCHES' BROOM

WIND/ICE: RESISTANT; MOD. STRONG WOOD

DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, THICK, ROUGH, ALT.

SPRING/SUMMER COLOR: GRAY-GREEN

FALL COLOR: YELLOW, NOT PERSISTENT

FLOWER: INSIGNIFICANT, CLUSTERS

SEASON: APRIL

FRUIT: 1/3" ORANGE-RED BERRY

BARK/STEM: ATTRACTIVE, GRAY, BLOCKY





**BUTTON
BUSH**

Cephalanthus occidentalis

LANDSCAPE EVALUATION

BUTTONBUSH IS VALUABLE FOR ITS ABILITY TO THRIVE IN WET SOILS. IT'S ORNAMENTAL ASSETS BE PUT TO USE IN ALL OF THE FOLLOWING APPLICATIONS IF WET SOIL IS PRESENT: LARGE SCALE WATER GARDENS, PONDS, WETLANDS, PARKS, NATURALIZING, GOLF COURSES, RESIDENTIAL, RIVER BANKS, EROSION CONTROL, BACKGROUND PLANTINGS, COMMERCIAL AND INDUSTRIAL AREAS.

KEY ADVANTAGES

- *VERY HANDSOME ORNAMENTAL ASSETS; INTERESTING LEAVES, FRUIT, & FLOWER
- *VERY LONG LASTING SUMMER FLOWERS
- *WILL GROW IN STANDING WATER
- *EASY TO TRANSPLANT & PROPAGATE

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION
- *WILL PARRISH QUICKLY FROM DROUGHT
- *RATHER SHORT LIFE EXPECTANCY
- *UNCOMMON IN THE NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS SHRUB
 MATURE HT X WT: 8-12' X 6-12'
 GROWTH RATE: MEDIUM; 12"-24"/ YEAR
 TEXTURE/FORM: MEDIUM, GLOBULAR
 LONGEVITY: 25-45 YEARS
 INVASIVENESS: YES, WET AREAS
 POISONOUS: YES, FOLIAGE IS TOXIC

HABITAT & CULTURE

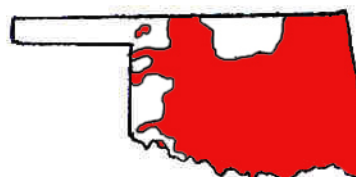
HABITAT: BOGGS, STREAMS, FLOOD PLAINS
 SOIL: SILTY LOAM,SAND, ORGANIC SOILS
 DRAINAGE: EXTREMELY POOR TO WELL
 pH: 6.0-8.5
 EXPOSURE: FULL SUN
 MOISTURE: EXTREMELY MOIST TO MOIST

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4a-10
 DISEASE: RESISTANT; SOME LEAF SPOT
 INSECT: RESISTANT; MANY, NON SERIOUS
 WIND/ICE: RESISTANT ; MOD. STRONG WOOD
 DROUGHT/HEAT: VERY SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, LANCEOLATE, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW, NOT PERSISTENT
 FLOWER: 1" WHITE BALL-LIKE CLUSTERS
 SEASON: LATE JULY-AUGUST
 FRUIT: 1" BALL, GREENISH RED, THEN BROWN
 BARK/STEM: DARK GRAY, EXFOLIATING





**OKLAHOMA
REDBUD**

***Cercis canadensis* var. *texasensis*
'Oklahoma'**

LANDSCAPE EVALUATION

ALTHOUGH OKLAHOMA REDBUD IS ONE OF OUR MOST PRIZED NATIVE TREES EXHIBITING QUALITIES SUPERIOR TO EASTERN REDBUD, IT IS STILL GREATLY UNDERUSED. APPROPRIATE FOR COMMERCIAL PLAZAS, RESIDENTIAL COURTYARDS, WOODED AREAS, AND PARKS

KEY ADVANTAGES

- *VERY ATTRACTIVE ROSE PINK FLOWERS EMERGE 2 WEEKS BEFORE FOLIAGE
- *ATTRACTIVE GLOSSY GREEN LEAVES ARE MUCH MORE RESISTANT TO INSECT DAMAGE THAN SPECIES
- *VERY TOLERANT OF CITY CONDITIONS
- *VERSATILE; SPECIMEN OR GROUPING
- *VALUED FOR ITS ABILITY TO GROW WELL IN BOTH FULL SHADE & FULL SUN

KEY DISADVANTAGES

- *SHORT LIFE EXPECTANCY
- *EXPENSIVE IN THE NURSERY TRADE
- *UNATTRACTIVE IN LATE SUMMER-FALL

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
 MATURE HT X WT: 20-30' X 20-30'
 GROWTH RATE: MEDIUM; 12"-24"/YEAR
 TEXTURE/FORM: COURSE, GLOBULAR
 LONGEVITY: 30-60 YEARS
 INVASIVENESS: NO
 POISONOUS: NO, EDIBLE FLOWERS

HABITAT & CULTURE

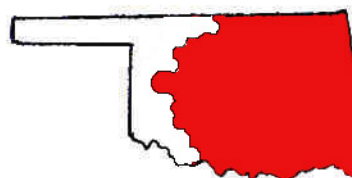
HABITAT: DRY UPLAND FOREST & HILLSIDES
 SOIL: RICH TO POOR SILTY LOAMS, CLAY
 DRAINAGE: AVERAGE TO WELL
 pH: 6.0-8.5
 EXPOSURE: FULL SHADE TO FULL SUN
 MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
 DISEASE: MOD; VERTICILLIUM WILTS, CANKER
 INSECT: RESISTANT, SOME CHEWING INSECTS
 WIND/ICE: MODERATE; MEDIUM STRENGTH
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: LARGE, SIMPLE, GLOSSY, ALT.
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW, BROWN, NOT SHOWY
 FLOWER: DK. ROSE-PINK CLUSTERS, LEGUME
 SEASON: LATE MARCH-EARLY APRIL
 FRUIT: BLACK POD, SOMEWHAT MESSY
 BARK/STEM: BROWN, SMOOTH, EXFOLIATING





RABBIT
BRUSH

Chrysothamnus nauseosus

LANDSCAPE EVALUATION

RABBITBRUSH, A LOW SAGE-LIKE SHRUB THAT IS NATIVE TO THE PANHANDLE, IS MOST ATTRACTIVE WHEN BLUISH GRAY FOLIAGE IS CUT TO THE GROUND EVERY FIVE YEARS TO REJUVENATE. GREAT LANDSCAPE POTENTIAL IS SHOWN ON DRY OPEN GRASSLAND SITES IN NORTH-WESTERN OKLAHOMA. USEFUL FOR RESIDENTIAL, COMMERCIAL, INDUSTRIAL, NATURALISTIC PLANTINGS, HIGHWAYS, PARKS, AND HIGHWAYS.

KEY ADVANTAGES

- *ATTRACTIVE, FINE TEXTURED FOLIAGE.
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING
- *VERY HIGH WILDLIFE VALUE

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS SUCH AS POORLY DRAINED CLAYS OF THE EAST.
- *WILL CONTRACT FOLIAGE DISEASES IN THE EAST FROM HIGH HUMIDITY

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS SHRUB
 MATURE HT X WT: 2-5' x 4-8'
 GROWTH RATE: SLOW; 6"/ YEAR
 TEXTURE/FORM: FINE, SPREADING
 LONGEVITY: 5-10 YRS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

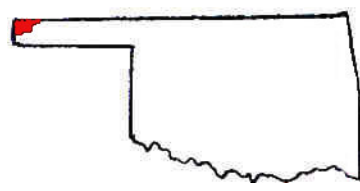
HABITAT: DRY UPLAND HILLSIDES, PLAINS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 PH: 6.5-8.0
 EXPOSURE: FULL SUN
 MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 2-10
 DISEASE: VERY RESISTANT, IN LOW HUMIDITY
 INSECT: VERY RESISTANT
 WIND/ICE: VERY RESISTANT; LOW GROWTH
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: NARROW, VERY DENSE, AROMATIC
 SPRING/SUMMER COLOR: BLUISH GRAY
 FALL COLOR: BLUISH GRAY FADING YELLOW
 FLOWER: ATTRACTIVE YELLOW CLUSTERS
 SEASON: APRIL MAY
 FRUIT: ATTRACTIVE DRY SEED HEADS
 BARK/STEM: GREY, FIBROUS, SHREDDY



**YELLOWWOOD
TREE**

Cladrastis kentukea

LANDSCAPE EVALUATION

ALTHOUGH YELLOWWOOD IS ONE OF OUR MOST BEAUTIFUL NATIVE TREES EXHIBITING SUPERIOR ORNAMENTAL QUALITIES, IT IS STILL GREATLY UNDER USED. APPROPRIATE FOR RESIDENTIAL ESTATES, GREENWAYS , OPEN AREAS, WOODED AREAS, AND PARKS WHERE THE POSSIBILITY OF STORM DAMAGE WON'T CAUSE ANY HARM.

KEY ADVANTAGES

- *VERY ATTRACTIVE WHITE FLOWERS
- *VERSATILE; SPECIMEN OR GROUPING
- *VALUED FOR ITS ABILITY TO GROW WELL IN BOTH FULL SHADE & FULL SUN
- *NO PROBLEMS WITH INSECTS /DISEASE
- *HIGH ORNAMENTAL QUALITIES

KEY DISADVANTAGES

- *EXPENSIVE IN THE NURSERY TRADE
- *NOT SUITABLE FOR DROUGHTY SITES
- *LIMITED LANDSCAPE UTILIZATION
- *WEAK WOODED; TENDENCY TO BREAK

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
MATURE HT X WT: 20-30' X 20-30'
GROWTH RATE: MEDIUM; 12"-24"/YEAR
TEXTURE/Form: COURSE, GLOBULAR
LONGEVITY: 100-150 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

HABITAT: FORESTS, RIVERBANKS, PRAIRIE
SOIL: RICH, MEDIUM TO FINE SILT LOAMS
DRAINAGE: MODERATELY WELL TO WELL
pH: 6.5-8.0
EXPOSURE: FULL SHADE TO MODERATE SUN
MOISTURE: VERY MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3b-8
DISEASE:RESISTANT, SOME VERTICILLIUM WILT
INSECT: VERY RESISTANT
WIND/ICE: SUSCEPTIBLE, WEAK WOOD
DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE:PINNATELY COMPOUND, ALTERNATE
SPRING/SUMMER COLOR: BLUISH GREEN
FALL COLOR: LIGHT YELLOW
FLOWER: WHITE PYRAMIDAL SPIKE
SEASON: MAY- JUNE
FRUIT: BLACK POD, SOMEWHAT MESSY
BARK/STEM: GREY SMOOTH, BEECH-LIKE



CAROLINA
SNAILSEED



Cocculus carolinus

LANDSCAPE EVALUATION

EXCEPTIONAL ORNAMENTAL QUALITIES; LARGE GLOSSY GREEN FOLIAGE, HANDSOME CLUSTERS OF RED BERRIES, AND "TAME" GROWTH HABIT MAKE THIS NATIVE PLANT WORTHY OF MORE WIDE-SPREAD USE. ALTHOUGH GROWTH IS FAST, IT IS WELL CONFINED TO THE STRUCTURE AND IS EASY TO MANAGE. USE FOR: RESIDENTIAL; FENCES, ARBORS, WALLS, EROSION CONTROL & FORESTS

KEY ADVANTAGES

- *FAST GROWTH RATE; INSTANT COVER
- *COMPACT GROWTH CLINGS VERY CLOSELY- LITTLE PRUNING IS REQUIRED
- *HIGH ORNAMENTAL QUALITIES; FRUITS

KEY DISADVANTAGES

- *SHORT LIVED; REGENERATE WITH SEEDS
- *SIGNIFICANT DIE-BACK NORMALLY OCCURS OVER WINTER-MUST BE CLEANED UP TO MAINTAIN ORDERLY APPEARANCE
- *CAN BE INVASIVE IN MOIST, RICH SOIL

DESIGN CONSIDERATIONS

CLASS: LOW/MEDIUM DECIDUOUS VINE
MATURE HT X WT: 3-15' x 6-15'
GROWTH RATE: VERY FAST; 5'-10'/ YR
TEXTURE/Form: MEDIUM, VARIABLE
LONGEVITY: 5-10 YEARS
INVASIVENESS: YES, SEEDLINGS
POISONOUS: YES, FRUITS TOXIC

HABITAT & CULTURE

HABITAT: FORESTS, FLOOD PLAINS, DRY HILLS
SOIL: SANDY, ROCKY, LOAMY, OR ORGANIC
DRAINAGE: POOR TO EXCESSIVELY WELL
pH: 6.0-8.5
EXPOSURE: AVERAGE TO FULL SUN
MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 6-9b
DISEASE: VERY RESISTANT
INSECT: RESISTANT; NONE SERIOUS
WIND/ICE: SUSCEPTIBLE; WEAK, STEMS
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, CORDATE,
SPRING/SUMMER COLOR: MEDIUM GREEN
FALL COLOR: YELLOW GREEN, PERSISTENT
FLOWER: INSIGNIFICANT GREENISH WHITE
SEASON: - EARLY JULY- LATE AUGUST
FRUIT: CLUSTERS OF ¼" BRIGHT RED BERRIES
BARK/STEM: GRAY, SMOOTH, WARTY





**ROUGHLEAF
DOGWOOD**

LANDSCAPE EVALUATION

ALTHOUGH ROUGHLEAF DOGWOOD IS A PRIZED NATIVE SHRUB EXHIBITING SUPERIOR ORNAMENTAL QUALITIES, IT IS GREATLY UNDERUSED. BECAUSE IT'S ABLE TO ADAPT TO MANY LANDSCAPE SITUATIONS AND MAINTENANCE PRACTICES, IT IS WORTHY OF CONSIDERATION FOR THE FOLLOWING USES: EROSION CONTROL, RESIDENCES , HEDGEROWS, BACKGROUND PLANTINGS, WOODED AREAS, NATURALIZING, AND PARKS

KEY ADVANTAGES

- *GROWS IN FULL SHADE & FULL SUN
- *HIGH ORNAMENTAL QUALITIES; FRUIT, FLOWER, & SUMMER AND FALL COLOR
- *TOLERATES SEVERE PRUNING TO MAINTAIN DESIRED SIZE AND DENSE FOLIAGE
- *TOLERATES RANGE OF SOIL DRAINAGE

KEY DISADVANTAGES

- *FOLIAGE WILL BURN/DEFOLIATE FROM HEAT & DROUGHT STRESS LATE SUMMER

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS SHRUB
 MATURE HT X WT: 5-15' X 5-15'
 OGROWTH RATE: MEDIUM; 9-18" / YEAR
 TEXTURE/FORM: MEDIUM, GLOBULAR
 LONGEVITY: 30-60 YRS, ROOTS LONGER
 INVASIVENESS: YES, RICH SOIL AREAS
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: FOREST EDGES, HILLS, RIVERBANKS
 SOIL: SANDY, CLAYISH, OR LOAMY
 DRAINAGE: MODERATELY POOR TO WELL
 pH: 6.0-7.0
 EXPOSURE: FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: MODERATE, LEAF SPOT, HEART ROT
 INSECT: MODERATE; SOME CHEWING INSECTS
 WIND/ICE: RESISTANT; MOD. STRONG WOOD
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ROUGH, OPPOSITE.
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: YELLOW, NOT PERSISTENT
 FLOWER: WHITE, FLATTENED CLUSTERS
 SEASON: MAY
 FRUIT: 1/3" WHITE BERRY, NUMEROUS
 BARK/STEM: GRAY, NEW GROWTH RED/BROWN



Cornus drummondii



**AMERICAN
SMOKE TREE**

Cotinus americanus (obovatus)

LANDSCAPE EVALUATION

ATTRACTIVE SMALL TREE / LARGE SHRUB
USEFUL FOR EASTERN AREAS WHICH
RECEIVE LOTS OF RAIN BUT DRY OUT
QUICKLY ON RAPID DRAINING ROCKY
HILLSIDE SOILS. LANDSCAPE UTILIZATION
SHOULD BE AKIN TO OTHER SMALL SCALE
TREES SUCH AS EASTERN RED BUD OR
RED BUCKEYE ON SLOPING SITES. USEFUL
FOR EXPOSED PLAZAS, RESIDENTIAL
COURTYARDS AND WOODED AREAS.

KEY ADVANTAGES

- *ONE OF THE BEST OF ALL AMERICAN
TREES/SHRUBS FOR INTENSITY AND
CONSISTENCY OF FALL COLOR.
- *ABILITY TO GROW ON ROCKY HILLS.
- *GREAT SPECIMEN/ACCENT PLANT

KEY DISADVANTAGES

- *VERY RARE, HARD TO FIND.
- *DIFFICULT TO PROPAGATE.
- *CAN BE SHORT LIVED IF SOIL IS TOO
RICH AND DRAINAGE ISN'T ADEQUATE.

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
MATURE HT X WT: 20-30' X 15-25'
GROWTH RATE: SLOW; 6"/YEAR
TEXTURE/FORM: COURSE, IRREGULAR
LONGEVITY: 60-100 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

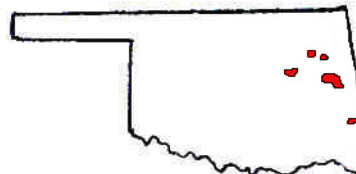
HABITAT: FOREST HILLSIDE OUTCROPPINGS
SOIL: THIN ROCKY TO SANDY LOAMS
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 6.5-8.0
EXPOSURE: FULL SUN
MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-8
DISEASE: RESISTANT; LEAF SPOT, RUST
INSECT: RESISTANT; SAN JOSE SCALE
WIND/ICE: RESISTANT; MOD. STRONG WOOD
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, OVAL
SPRING/SUMMER COLOR: BLUEISH GREEN
FALL COLOR: RED, ORANGE, YELLOW, PURPLE.
FLOWER: PINK, GRAY, SMOKEY APPEARANCE
SEASON: JULY-SEPTEMBER
FRUIT: INFREQUENT RED BERRY
BARK/STEM: SCALY, GRAYISH BROWN





COMMON
PERSIMMON

Diospyros virginiana

LANDSCAPE EVALUATION

ALTHOUGH PERSIMMON PERFORMS BEST IN LOCATIONS WITH RICH, MOIST, SOIL; THIS PROMOTES A FASTER GROWTH RATE WHICH CAN RESULT IN A SHORTENED LIFESPAN. PERSIMMON MAKES AN EXCELLENT NATIVE TREE WHERE ITS TENDENCY TO SPREAD FROM ROOT SUCKERS AND FORM COLONIES WOULD NOT BE A PROBLEM; FOR NATURALIZING, OPEN AREAS, HIGHWAYS, INDUSTRIAL SITES, GOLF COURSES, PARKS, GREENWAYS, AND POLLUTED URBAN SITES.

KEY ADVANTAGES

- *HIGH WILDLIFE VALUE; NATURALIZING
- *VERY STRONG, HARD, DENSE WOOD
- *MORE CULTIVARS COULD BE SELECTED FROM THE VARIABILITY EXHIBITED IN NATURE PROMOTING LANDSCAPE QUALITIES

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION
- *SHORT LIFE EXPECTANCY

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 25-40' x 20-30'
 GROWTH RATE: MEDIUM; 12"-24"/ YEAR
 TEXTURE/FORM: MEDIUM, OVOID
 LONGEVITY: 50-75 YEARS
 INVASIVENESS: YES, RANGE LANDS
 POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

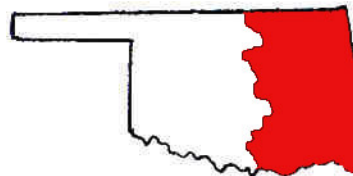
HABITAT: FORESTS, DISTURBED AREAS
 SOIL: SANDY, ROCKY, LOAMY, OR CLAY
 DRAINAGE: AVERAGE TO WELL
 pH: 6.0-6.5
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: AVERAGE TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4b-9
 DISEASE: MODERATE; PERSIMMON WILT
 INSECT: MODERATE; WEBWORMS
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOWISH ORANGE, RED
 FLOWER: HIDDEN, BELL-SHAPED, YELLOW
 SEASON: JUNE
 FRUIT: 1-2" EDIBLE YELLOW ORANGE BERRY
 BARK/STEM: BLOCKY, DARK GRAY/BLACK



KENTUCKY
COFFEETREE



Gymnocladus dioica

LANDSCAPE EVALUATION

KENTUCKY COFFEE TREE IS A EXCEPTIONAL NATIVE TREE FOR NATURALIZING. GOLF COURSES, PARKS, RIVER GREENWAYS, NEIGHBORHOOD SUBDIVISIONS AND INDUSTRIAL AREAS. MAKES AN EXCELLENT TREE FOR ALL OF OKLAHOMA WHERE SOILS ARE POOR AND DROUGHTY OR RICH AND MOIST.

KEY ADVANTAGES

- *BLACK PODS CLING TO TREE - AN ATTRACTIVE WINTER FEATURE
- *EXCEPTIONAL TOLERANCE TO A WIDE RANGE OF ENVIRONMENTS
- *OUTSTANDING YEAR ROUND ORNAMENTAL QUALITIES
- *DURABLE, STRONG WOOD

KEY DISADVANTAGES

- *LATE TO LEAF OUT IN THE SPRING
- *SLOW GROWTH RATE
- *SOMEWHAT MESSY AT TIMES- NOT TO USED NEAR AUTOMOBILE TRAFFIC

DESIGN CONSIDERATIONS

CLASS: MEDIUM/LARGE DECIDUOUS TREE

MATURE HT X WT: 75-100' x 60-85'

GROWTH RATE: SLOW; 6"/YEAR

TEXTURE/Form: MEDIUM, OVOID

LONGEVITY: 150-250 YEARS

INVASIVENESS: NO

POISONOUS: YES, SEED PODS

HABITAT & CULTURE

HABITAT: FOREST, PLAINS, RIVER VALLEYS

SOIL: COARSE TO FINE LOAMS, CLAY, SAND

DRAINAGE: MODERATELY POOR TO WELL

pH: 6.0-7.5

EXPOSURE: MODERATE TO FULL SUN

MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 4-8

DISEASE: VERY RESISTANT

INSECT: VERY RESISTANT

WIND/ICE: RESISTANT; MOD. STRONG WOOD

DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: ALTERNATE, BIPINNATELY COMP.

SPRING/SUMMER COLOR: BLUISH GREEN

FALL COLOR: YELLOW, NOT PERSISTENT

FLOWER: YELLOW GREEN PYRAMIDAL SPIKE

SEASON: MID-LATE JUNE

FRUIT: ATTRACTIVE PURPLISH BLACK POD

BARK/STEM: ATTRACTIVE, FURROWED, GREY





POSSUMHAW
DECIDUOUS HOLLY

Ilex decidua 'Warren's Red'

LANDSCAPE EVALUATION

MOST FREQUENTLY OCCURRING NEAR STREAMS AND LAKES, POSSUMHAW IS HIGHLY VALUED FOR ITS ABILITY TO THRIVE IN BOTH WET SOILS AND DRIER UPLAND SITES.. IT SHOULD BE USED FOR ANY OF THE FOLLOWING APPLICATIONS IN LOW LYING AREAS THAT FLOOD OCCASIONALLY OR CONTAIN POORLY DRAINED SOILS THROUGH PART OF THE SEASON:WETLANDS, PARKS, RESIDENTIAL, HILL-SIDES, NATURALIZING, HIGHWAYS, WOODED AREAS AND EROSION CONTROL. POSSUMHAW SHOULD BE USED IN THE EASTERN HALF OF THE STATE IN ANY SOILS WHERE ITS TENDENCY TO SPREAD FROM ROOT SUCKERS AND FORM DENSE COLONIES WOULD NOT BE A PROBLEM.

KEY ADVANTAGES

- *VERY HANDSOME ORNAMENTAL ASSETS
- *TOLERATES ALL EXTREMITIES OF SOIL

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION

DESIGN CONSIDERATIONS

CLASS: VERY LARGE DECIDUOUS SHRUB
 MATURE HT X WT: 10-20' x 8-15'
 GROWTH RATE: MEDIUM; 12"-24"/ YEAR
 TEXTURE/FORM: COURSE, IRREGULAR
 LONGEVITY: 75-125 YEARS
 INVASIVENESS: YES, WET AREAS
 POISONOUS: YES, FRUITS TOXIC

HABITAT & CULTURE

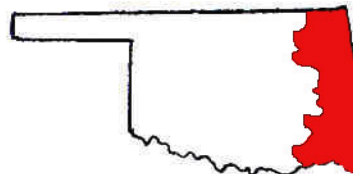
HABITAT:BOGGS, STREAMS, PLAINS, FORESTS
 SOIL: CLAY, LOAM, SAND, ORGANIC SOILS
 DRAINAGE: EXTREMELY POOR TO WELL
 pH: 4.0-8.5
 EXPOSURE: MODERATE TO FULL SUN
 MOISTURE: EXTREMELY MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5b-9
 DISEASE: RESISTANT; LEAF SPOTS, ECT
 INSECT: MODERATE; LEAF MINER
 WIND/ICE: SUSCEPTIBLE; WEAK WOOD
 DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, OBOVATE
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW, LATE TO COLOR
 FLOWER: INSIGNIFICANT GREENISH WHITE
 SEASON: LATE MAY TO MID JUNE
 FRUIT: CLUSTERS OF SMALL RED BERRIES
 BARK/STEM: BLOCKY, DARK GRAY/BLACK



VIRGINIA
SWEETSPIRE

Itea virginica

LANDSCAPE EVALUATION

ATTRACTIVE ORNAMENTAL QUALITIES AND "TAME" GROWTH HABIT MAKE THIS NATIVE PLANT WORTHY OF MORE WIDE-SPREAD USE. ALTHOUGH IT IS NATIVE TO WET AREAS, FIELD EXPERIMENTS SHOW IT TO BE MUCH MORE RESISTANT TO DRY CONDITIONS THAN PREVIOUSLY THOUGHT. IT IS WORTHY OF CONSIDERATION FOR THE FOLLOWING USES: MASS PLANTINGS, SPECIMEN/ACCENT PLANT, COMMERCIAL SITES, LAGRE RESIDENTIAL, WOODED AREAS, NATURALIZING, AND PARKS.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *GREAT SPECIMEN/ACCENT PLANT
- *COMPACT, NEAT GROWTH HABIT.
- *GROWS IN FULL SHADE OR FULL SUN
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *NOT SUITABLE FOR DROUGHTY SITES

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS SHRUB
MATURE HT X WT: 3-8' x 4-8'
GROWTH RATE: SLOW TO MED; 8-14"/YR
TEXTURE/Form: FINE, SPREADING
LONGEVITY: 5-10 YRS, ROOTS LONGER
INVASIVENESS: YES, RANGE LANDS
POISONOUS: NO

HABITAT & CULTURE

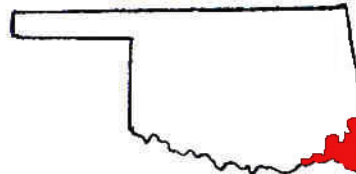
HABITAT: FORESTS, RIVERBANKS, BOGGS
SOIL: RICH, MEDIUM TO FINE SILT LOAMS
DRAINAGE: VERY POOR TO AVERAGE
pH: 5.5-7.0
EXPOSURE: FULL SHADE TO FULL SUN
MOISTURE: MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 5b-9
DISEASE: RESISTANT; SOME LEAF SPOT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, OBOVATE, GLOSSY
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: SCARLET, PERSISTENT
FLOWER: 2"-6" WHITE TERMINAL SPIKE
SEASON: LATE JUNE -JULY
FRUIT: INSIGNIFICANT BROWN CAPSULE
BARK/STEM: RED BROWN, BLOCKY
SEGMENT^{TC}





**BLACK
WALNUT**

Juglans nigra

LANDSCAPE EVALUATION

WALNUT IS AN ACCEPTABLE NATIVE LANDSCAPE TREE; EFFORT SHOULD BE TAKEN TO PRESERVE STANDS OF THIS TREE DURING CONSTRUCTION. USEFULNESS IS LIMITED TO RIVER GREENWAYS, PARKS, GOLF COURSES, LARGE SCALE RESIDENTIAL, NATURALIZING, FLOOD PLAINS, FOREST PRESERVATIONS AND OPEN SPACES WITH A DEEP SOIL PROFILE.

KEY ADVANTAGES

- *BEAUTIFUL, DURABLE, STRONG WOOD WITH HIGH COMMERCIAL VALUE
- *ATTRACTIVE AS NATURAL GROVE IN ITS NATIVE HABITAT IN LOW LANDS & RIVERS

KEY DISADVANTAGES

- *LOTS OF LEAF, TWIG, AND FRUIT LITTER- LARGE NUTS MAY DAMAGE CARS
- *DIFFICULT TO TRANSPLANT; TAP ROOT
- *SERIOUS INSECT ATTACKS MAY COMPLETELY DEFOLIATE CANOPY; WEB WORMS
- *ROOTS ARE TOXIC TO OTHER PLANTS

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
 MATURE HT X WT: 75-100' x 60-90'
 GROWTH RATE: FAST; 24"-36"/YEAR
 TEXTURE/FORM: MEDIUM, IRREGULAR
 LONGEVITY: 150-200 YEARS
 INVASIVENESS: NO, BUT SEEDS READILY
 POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

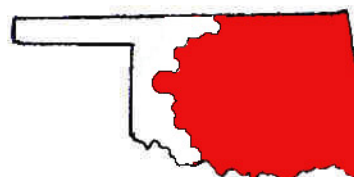
HABITAT: FORESTS, FLOOD PLAINS, RIVERS
 SOIL: RICH, MEDIUM TO FINE SILT LOAMS
 DRAINAGE: POOR TO MODERATELY WELL
 pH: 6.0-8.0
 EXPOSURE: MODERATE SUN TO FULL SUN
 MOISTURE: VERY MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 4-8
 DISEASE: MODERATE
 INSECT: VERY SUSCEPTIBLE, NUMEROUS
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: PINNATELY COMPOUND, ALT.
 SPRING/SUMMER COLOR: GREEN
 FALL COLOR: YELLOW, NOT PERSISTENT
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: MAY- JUNE
 FRUIT: WALNUT, COMMERCIAL VALUE, MESSY
 BARK/STEM: ATTRACTIVE, DEEPLY FURROWED





ONE SEED
JUNIPER

Juniperus monosperma

LANDSCAPE EVALUATION

ONE SEED JUNIPER FORMS AN ATTRACTIVE MULTI-TRUNK TREE WITH GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN WESTERN OKLAHOMA. USEFUL FOR RESIDENTIAL, COMMERCIAL, INDUSTRIAL, NATURALISTIC PLANTINGS, HIGHWAYS, PARKS AND RECREATION SITES, AND FOREST PRESERVATION AREAS.

KEY ADVANTAGES

- *ATTRACTIVE, FINE TEXTURED FOLIAGE.
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING
- *HIGH ORNAMENTAL QUALITIES
- *VERY HIGH WILDLIFE VALUE
- *EXCELLENT EVERGREEN WINDSCREEN

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS.
- *MAY CONTRACT DISEASES IN THE EAST
- *RARE IN NURSERY TRADE
- *DIFFICULT TO TRANSPLANT

DESIGN CONSIDERATIONS

CLASS: SMALL EVERGREEN TREE
MATURE HT X WT: 10-20' X 15-25'
GROWTH RATE: SLOW; 6"/ YEAR
TEXTURE/FORM: FINE, BROAD CONICAL
LONGEVITY: 100-175 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

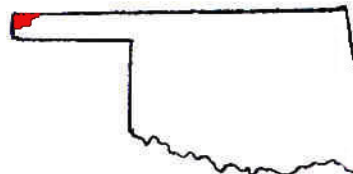
HABITAT: DRY UPLAND HILLSIDES, CLIFFS
SOIL: SANDY, ROCKY, OR LOAMY
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 6.0-8.0
EXPOSURE: FULL SUN
MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-7
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: MODERATE; MEDIUM STRENGTH
DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SCALE-LIKE, VERY DENSE
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: DARK GREEN
FLOWER: MALE-ATTRACTIVE YELLOW POLLEN
SEASON: LATE MAY
FRUIT: ATTRACTIVE BLUE BERRY
BARK/STEM: GREY, FIBROUS, SHREDDY



**EASTERN
RED CEDAR**



Juniperus virginiana

LANDSCAPE EVALUATION

EASTERN RED CEDAR HAS A WIDE-SPREAD RANGE AND IS EXTREMELY VARIABLE IN FORM, COLOR, AND TEXTURE. IT IS ONE OF OUR PRECIOUS FEW NATIVE EVERGREEN TREES. LANDSCAPE USE SHOULD INCLUDE SMALL TO LARGE RESIDENTIAL ESTATES, WOODED AREAS, PARKS, GOLF COURSES. IN ADDITION, THIS TREE DEFINITELY HAS MERITS IN DIFFICULT PLACES SUCH AS STRIP MINE AREAS, HIGHWAY CUTS & FILLS, HILLSIDES, REFORESTATION PLOTS, SHELTER BELT PLANTINGS, & EROSION CONTROL.

KEY ADVANTAGES

- *FREE OF LETHAL DISEASES & INSECTS
- *VERSATILE; SPECIMEN OR GROUPING
- *HIGH ORNAMENTAL QUALITIES
- *EXCELLENT EVERGREEN WINDSCREEN

KEY DISADVANTAGES

- *INVASIVE, TAKES OVER GRASSLANDS
- *VERY SUSCEPTIBLE TO FIRE

DESIGN CONSIDERATIONS

CLASS: MEDIUM EVERGREEN TREE
MATURE HT X WT: 20-40'x 10-30'
GROWTH RATE: SLOW/MED; 9-12"/YEAR
TEXTURE/FORM: CONICAL, PYRAMIDAL
LONGEVITY: LONG; 150-300 YEARS
INVASIVENESS: YES, RANGE LANDS
POISONOUS: NO

HABITAT & CULTURE

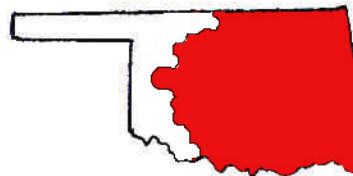
HABITAT: DRY ROCKY UPLANDS, PLAINS
SOIL: SANDY, ROCKY, CLAYISH, OR LOAMY
DRAINAGE: MOD. POOR TO EXCESSIVELY WELL
pH: 6.0-8.0
EXPOSURE: FULL SUN
MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3-9b
DISEASE: MODERATE; CEDAR APPLE RUST
INSECT: MODERATE; BAG WORMS, MITES
WIND/ICE: RESISTANT; MOD. STRONG WOOD
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SCALE-LIKE, VERY DENSE
SPRING/SUMMER COLOR: DK. GREEN-BLUIISH
FALL COLOR: BRONZE -DARK GREEN
FLOWER: MALE-ATTRACTIVE YELLOW POLLEN
SEASON: MID TO LATE MAY
FRUIT: FEMALE- ATTRACTIVE BLUE BERRY
BARK/STEM: EXFOLIATING RED-BROWN BARK





**TRUMPET
HONEYSUCKLE**

Lonicera sempervirens

LANDSCAPE EVALUATION

TRUMPET VINE IS A BEAUTIFUL ORNAMENTAL VINE WITH DULL BLUE-GREEN FOLIAGE CLUSTERS OF TUBULAR RED FLOWERS, REDDISH ORANGE BERRIES, AND "TAME" GROWTH HABIT MAKE THIS NATIVE VINE QUALIFIED FOR A WIDE VARIETY OF LANDSCAPE USES. USE FOR: RESIDENTIAL; FENCES, ARBORS, WALLS, GROUND COVER, EROSION CONTROL, HIGHWAY, STREETSCAPES, COMMERCIAL, URBAN PLAZAS, NATURALIZING, RIVER BANKS, PARKS & SCREENING JUNK PILES

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES; FLOWERS
- *VERSATILE; GROUND COVER/CLIMBER
- *LONG LIVED, NO MAJOR PROBLEMS
- *TOLERANT OF HEAVY PRUNING

KEY DISADVANTAGES

- *MUST BE CLEANED OUT EVERY 3-5 YEARS TO MAINTAIN ORDERLY APPEARANCE
- *CAN BE INVASIVE IN MOIST, RICH SOIL

DESIGN CONSIDERATIONS

CLASS: MEDIUM SEMI-EVERGREEN VINE
 MATURE HT X WT: 3-20' x 6-12'
 GROWTH RATE: SLOW/FAST; 1'-10'/ YR.
 TEXTURE/FORM: COARSE , VARIABLE
 LONGEVITY: 75-150 YEARS
 INVASIVENESS: YES, IN MOIST, RICH SOILS
 POISONOUS: NO

HABITAT & CULTURE

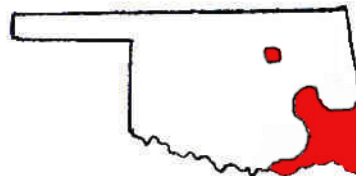
HABITAT: UPLAND FORESTS, HILLS, CLIFFS
 SOIL: COARSE TO FINE LOAMS, CLAY, ROCKY
 DRAINAGE: MOD.WELL TO EXCESSIVELY WELL
 pH: 6.0-7.5
 EXPOSURE: FULL SHADE TO FULL SUN
 MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 4a-9
 DISEASE: VERY RESISTANT; SOME LEAF SPOT
 INSECT: MODERATE; LEAF ROLLERS, APHIDS
 WIND/ICE: RESISTANT, STRONG STEMS
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, OPPOSITE, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW GREEN, PERSISTENT
 FLOWER: 1-2" SCARLET TRUMPETS, CLUSTERS
 SEASON: LATE JUNE - EARLY SEPTEMBER
 FRUIT: CLUSTERS OF ¼" ORANGE/RED BERRIES
 BARK/STEM: SMOOTH, BEIGE, EXFOLIATING



LANDSCAPE EVALUATION

THE NATIVE RANGE OF CUCUMBER TREE MAGNOLIA BARELY REACHES INTO OKLAHOMA. IT IS OFTEN VIEWED AS AN ARISTOCRATIC, SPECIALTY GARDEN TREE. THIS TREE CAN BE USED IN FORESTED AREAS, UPLAND PARKS, LARGE SCALE ESTATES, NATURALIZING, AND MOIST RIVER VALLEYS WHERE AN APPROPRIATE MICROCLIMATE EXISTS.

KEY ADVANTAGES

- *NO PROBLEMS WITH INSECTS /DISEASE
- *VERY BEAUTIFUL TREE WITH OUT-STANDING ORNAMENTAL FEATURES
- *EXCELLENT SPECIMEN TREE WITH AGE

KEY DISADVANTAGES

- *VERY LIMITED ADAPTABILITY RANGE
- * INTOLERANT TO CONSTRUCTION
- * DIFFICULT TO TRANSPLANT AND PROPAGATE, RARE IN NURSERY TRADE
- *WILL NOT TOLERATE DROUGHT NOR HEAT WITHOUT IRRIGATION.

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
MATURE HT X WT: 75-100' x 50-80'
GROWTH RATE: MEDIUM; 12"-24"/YEAR
TEXTURE/FORM: COARSE, OVOID
LONGEVITY: 100-150 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

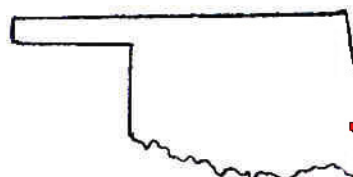
HABITAT: FORESTS, MT. SLOPES, VALLEYS
SOIL: RICH, MEDIUM TO FINE SILT LOAMS
DRAINAGE: AVERAGE TO WELL
pH: 4.0-7.5
EXPOSURE: AVERAGE TO FULL SUN
MOISTURE: MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4b-8
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: MODERATE; MEDIUM STRENGTH
DROUGHT/HEAT: SUSCEPTIBLE

ORNAMENTAL QUALITIES

FOLIAGE: LARGE, SIMPLE, ALTERNATE, DULL
SPRING/SUMMER COLOR: YELLOW GREEN
FALL COLOR: YELLOW GREEN
FLOWER: 2-3" SINGLE, BELL SHAPED, YELLOW
SEASON: MAY TO EARLY JUNE
FRUIT: FOLLICLE, BRIGHT RED NAKED SEEDS
BARK/STEM: GRAY BROWN, FURROWED



WHITE SHIELD
OSAGE ORANGE

Maclura pomifera 'White Shield'



LANDSCAPE EVALUATION

'WHITE SHIELD' OSAGE ORANGE IS ONE OF OUR MOST HIGHLY-RATED, UNDER-USED NATIVE TREES. THE CULTIVAR IS A TREMENDOUS IMPROVEMENT OVER THE SPECIES, ELIMINATING THE UNDESIRABLE CHARACTERISTICS INCLUDING THORNS AND FRUIT, WHILE IMPROVING THE GLOSSY GREEN LEAF QUALITIES. IT HAS A SIMILAR APPEARANCE TO THE BRADFORD PEAR AND LANDSCAPE USE SHOULD BE COMPARABLE; PARKS, GREENWAYS, RESIDENTIAL SITES, STREETSCAPES, COMMERCIAL, GOLF COURSES, & MORE.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *EXTREME ENVIRONMENTAL TOUGHNESS
- *EXTREMELY STRONG DENSE WOOD
- *EXTREMELY FAST GROWTH RATE
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *SOMEWHAT RARE IN NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
MATURE HT X WT: 30-40' x 30-40'
GROWTH RATE: VERY FAST; 24"- 48"/YR.
TEXTURE/FORM: MEDIUM, OBOVOID
LONGEVITY: 100-250 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

HABITAT: FORESTS, RIVERBANKS, PRAIRIE
SOIL: ANY; CLAY, SAND, SILT, LOAM
DRAINAGE: POOR TO EXCESSIVELY WELL
pH: 6.0-8.0
EXPOSURE: MODERATE SUN TO FULL SUN
MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 5-10
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, WHORLED
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: YELLOW
FLOWER: INSIGNIFICANT, RACEMES
SEASON: MAY
FRUIT: NO FRUIT ON CULTIVAR
BARK/STEM: ORANGE-BEIGE, FURROWED





**BLACK
GUM**

***Nyssa sylvatica* 'Miss Scarlet'**

LANDSCAPE EVALUATION

BLACK GUM IS A WORTHY TREE FOR AREAS WITH MODERATELY GOOD SOIL AND PERIODICALLY CHANGING SOIL DRAINAGE CONDITIONS. MAKES NICE SPECIMEN TREE FOR RESIDENTIAL AND COMMERCIAL SITES, URBAN PLAZAS, PARKS, GOLF COURSES, LOW TRAFFIC VOLUME STREET USE, GREEN-WAYS, AND NATURALIZING.

KEY ADVANTAGES

- *OUTSTANDING RED FALL COLOR
- *DARK GREEN PERSISTENT FOLIAGE
- *TOLERATES RANGE OF SOIL DRAINAGE CONDITIONS ESPECIALLY WET/SWAMPY
- *NICE PYRAMIDAL SHAPE WHEN YOUNG

KEY DISADVANTAGES

- *WILL NOT TOLERATE HIGH PH SOILS
- *SLOW GROWTH RATE
- *DIFFICULT TO TRANSPLANT (TAPROOT)
- *DISEASES CAN BE PROBLEMATIC
- *LOW TO MOD. DROUGHT TOLERANCE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 30-50' X 20-30'
 GROWTH RATE: SLOW; 6"-12"/YEAR
 TEXTURE/FORM: FINE, PYRAMIDAL
 LONGEVITY: 100-150 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

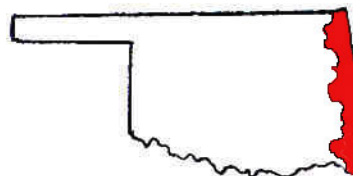
HABITAT: FOREST, SAVANNA, VALLEYS
 SOIL: COARSE TO MOD. FINE LOAMS
 DRAINAGE: POOR TO WELL
 pH: 5.0-6.0
 EXPOSURE: MODERATE TO FULL SUN
 MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 4-9
 DISEASE: SUSCEPTIBLE; CANKERS, LEAF SPOT
 INSECT: MODERATE; LEAF MINER, SCALE
 WIND/ICE: RESISTANT; MOD. STRONG WOOD
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: DEEP RED, PURPLE
 FLOWER: INSIGNIFICANT GREENISH WHITE
 SEASON: LATE MAY
 FRUIT: SMALL BLUE FLESHY BERRY
 BARK/STEM: BLOCKY, DARK GRAY/BLACK





TREE
CHOLLA

Opuntia imbricata

LANDSCAPE EVALUATION

TREE CHOLLA FORMS AN ATTRACTIVE MULTI-BRANCHING SHRUB WITH GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN WESTERN TO CENTRAL OKLAHOMA. THORNS ARE VERY HAZZARDOUS; SHOULD NOT BE USED NEAR CHILDREN. IT TOLERATES HIGHER RAINFALL IF IN WELL DRAINED SITE. USEFUL FOR RESIDENTIAL, HIGHWAYS, OPEN AREAS, HILLSIDES, DESERT GARDENS

KEY ADVANTAGES

- *ATTRACTIVE, FLOWERS AND FRUIT
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING
- *EASY TO TRANSPLANT AND PROPAGATE
- *VERY HIGH WILDLIFE VALUE

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS.
- *MAY CONTRACT DISEASES IN THE EAST
- *RARE IN NURSERY TRADE
- *HAZZARDOUS SPINES

DESIGN CONSIDERATIONS

CLASS: MEDIUM EVERGREEN SHRUB
 MATURE HT X WT: 3-5' X 3-5'
 GROWTH RATE: SLOW; 6"/ YEAR
 TEXTURE/FORM: COURSE, GLOBULAR
 LONGEVITY: 25-75 YEARS
 INVASIVENESS: NO
 POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT: DRY UPLAND HILLSIDES, PLAINS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 5.0-8.5
 EXPOSURE: FULL SUN
 MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: EXTREMELY RESISTANT
 INSECT: EXTREMELY RESISTANT
 WIND/ICE: RESISTANT ;MOD. STRONG WOOD
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: NONE, SUCCULENT STEMS
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: GREENISH PURPLE, SHRIVELED
 FLOWER: 2"-3" MAGENTA; VERY SHOWY
 SEASON: MAY- JUNE
 FRUIT: 2" YELLOW FRUIT, PERSISTENT
 BARK/STEM: VERY SPINY, GOLDEN YELLOW





**VIRGINIA
CREEPER**

Parthenocissus quinquefolia

LANDSCAPE EVALUATION

EXCEPTIONAL ORNAMENTAL QUALITIES; LARGE GLOSSY GREEN FOLIAGE, BLAZING RED FALL COLOR, POWDERY BLuish BLACK BERRIES , AND "TAME" GROWTH HABIT MAKE THIS NATIVE VINE QUALIFIED FOR A WIDE VARIETY OF LANDSCAPE USES. ALTHOUGH GROWTH IS FAST, IT IS WELL CONFINED TO THE STRUCTURE AND IS EASY TO MANAGE. USE FOR: RESIDENTIAL; FENCES, ARBORS, WALLS, GROUND-COVER, EROSION CONTROL, HIGHWAY, STREETSCAPES, COMMERCIAL, URBAN PLAZAS & NATURALIZING.

KEY ADVANTAGES

- *FAST GROWTH RATE; INSTANT COVER
- *COMPACT GROWTH CLINGS TO STRUCTURE; LITTLE PRUNING IS REQUIRED
- *HIGH ORNAMENTAL QUALITIES
- *VERSATILE; GROUNDCOVER/CLIMBER

KEY DISADVANTAGES

- *CAN BE INVASIVE IN MOIST, RICH SOIL

DESIGN CONSIDERATIONS

CLASS: SMALL/LARGE DECIDUOUS VINE
 MATURE HT X WT: 5-35' x 15-40'
 GROWTH RATE: VERY FAST; 5'-10'/ YR
 TEXTURE/FORM: MEDIUM, VARIABLE
 LONGEVITY: 75-125 YEARS
 INVASIVENESS: YES, SEEDLINGS
 POISONOUS: YES, FRUITS TOXIC

HABITAT & CULTURE

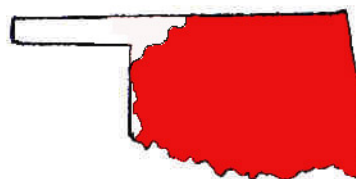
HABITAT: FOREST, SAVANNA, VALLEYS
 SOIL: COARSE TO MOD. FINE LOAMS
 DRAINAGE: POOR TO WELL
 pH: 6.0-8.0
 EXPOSURE: MODERATE SHADE TO FULL SUN
 MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 6a-9b
 DISEASE: MODERATE; SOME LEAF SPOT
 INSECT: RESISTANT
 WIND/ICE: MODERATE; WEAK, HOLLOW STEMS
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, OPPOSITE, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: GREENISH PURPLE
 FLOWER: INSIGNIFICANT GREENISH WHITE
 SEASON: JUNE- EARLY JULY
 FRUIT: ¼" BLuish BLACK BERRIES
 BARK/STEM: ROUGH, DARK GRAY, FURROWED





**PASSION
FLOWER**

Passiflora lutea

LANDSCAPE EVALUATION

PASSION FLOWER IS A BEAUTIFUL ORNAMENTAL VINE WITH LARGE LAVENDER FLOWERS AND LARGE YELLOWISH ORANGE FRUIT. AN EXTENSIVE NETWORK OF LONG LIVING ROOTS PERPETUATE COLONY WHEN TOP GROWTH DIES TO THE GROUND EACH WINTER. DON'T USE IN SMALL OR MOIST AREAS BECAUSE ITS RHIZOME ROOT SYSTEM WILL SEND UP SHOOTS A GREAT DISTANCE AWAY FROM THE PARENT PLANT TAKING OVER THE SITE. USE FOR: OPEN FIELDS, OPEN FOREST UNDER-STORY, EROSION CONTROL, HIGHWAYS, FENCES, AND RESIDENTIAL.

KEY ADVANTAGES

*HIGH ORNAMENTAL QUALITIES; FLOWER, AND FRUITS GIVE TROPICAL APPEARANCE

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION.
- *ROOT SYSTEM CAN BE INVASIVE
- *DIES TO GROUND IN WINTER; EYE SORE

DESIGN CONSIDERATIONS

CLASS: LOW DECIDUOUS VINE
MATURE HT X WT: 3-5' x 5-10'
GROWTH RATE: FAST; 3'-5'/ YR
TEXTURE/Form: MEDIUM, SPREADING
LONGEVITY: 25-50 YEARS
INVASIVENESS: YES, IN MOIST, RICH SOILS
POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

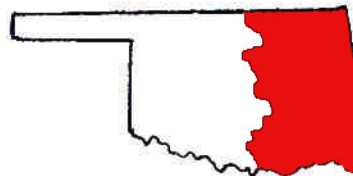
HABITAT: FOREST OPENINGS, GRASSLANDS
SOIL: COARSE TO FINE LOAMS, CLAY
DRAINAGE: MOD. WELL TO WELL
pH: 6.0-7.0
EXPOSURE: MODERATE TO FULL SUN
MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 6b-10
DISEASE: RESISTANT; SOME LEAF SPOT
INSECT: RESISTANT; SOME CHEWING INSECTS
WIND/ICE: SUSCEPTIBLE; WEAK, STEMS
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, OPPOSITE, ROUGH, 3-LOBES
SPRING/SUMMER COLOR: MEDIUM GREEN
FALL COLOR: YELLOW
FLOWER: 2-3" LAVENDER, VERY UNIQUE
SEASON: LATE APRIL- EARLY AUGUST
FRUIT: 2" YELLOWISH ORANGE FRUIT, SHOWY
BARK/STEM: BROWN, HERBACEOUS PERENNIAL





**PINYON
PINE**

Pinus edulis

LANDSCAPE EVALUATION

PINYON PINE FORMS AN EXCELLENT SOLITARY OR MULTI-TRUNK TREE WITH GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN WESTERN OKLAHOMA. USEFUL FOR RESIDENTIAL, COMMERCIAL, INDUSTRIAL, NATURALISTIC PLANTINGS, HIGHWAYS, PARKS AND RECREATION SITES AND HILLSIDES

KEY ADVANTAGES

- *EXCELLENT EVERGREEN WINDSCREEN
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING
- *HIGH ORNAMENTAL QUALITIES
- *VERY HIGH WILDLIFE VALUE

KEY DISADVANTAGES

- *MAY SUFFER IRREPARABLE DAMAGE FROM HEAVY SNOW AND ICE STORMS
- *EXPENSIVE IN A NURSERY TRADE DUE TO VERY SLOW GROWTH RATE
- *MAY CONTRACT DISEASES IN THE EAST
- *WILL LANGUISH IN WET SOILS.

DESIGN CONSIDERATIONS

CLASS: SMALL EVERGREEN TREE
 MATURE HT X WT: 10-20' X 15-25'
 GROWTH RATE: SLOW; 6"/ YEAR
 TEXTURE/FORM: MED, BROAD CONICAL
 LONGEVITY: 100-200 YEARS
 INVASIVENESS: NO
 POISONOUS:NO, EDIBLE GOURMET NUT

HABITAT & CULTURE

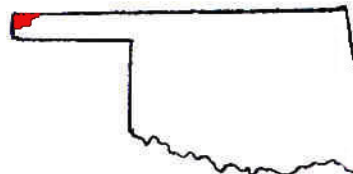
HABITAT: DRY UPLAND HILLSIDES, CLIFFS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 6.0-8.0
 EXPOSURE: FULL SUN
 MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4-8
 DISEASE: VERY RESISTANT
 INSECT: VERY RESISTANT
 WIND/ICE: MODERATE; MEDIUM STRENGTH
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: 2-3 NEEDLES/ FASCICLE, 2-5" LONG
 SPRING/SUMMER COLOR: BLUE-GREEN
 FALL COLOR: BLUE-GREEN
 FLOWER: ATTRACTIVE YELLOW POLLEN
 SEASON: MAY-JUNE
 FRUIT: RUST BROWN CONE, EDIBLE PINE NUT
 BARK/STEM: RUST BROWN, DEEP FURROWED





**PONDEROSA
PINE**

Pinus ponderosa

LANDSCAPE EVALUATION

PONDEROSA PINE IS A WELL-QUALIFIED TREE FOR ALL OF WESTERN TO CENTRAL OKLAHOMA ON SLOPES WHERE SOILS ARE CALCAREOUS AND DROUGHTY. WHEN GROWN AS A SPECIMEN, THE TREE DEVELOPS A LOOSE, SOMEWHAT BROAD OVAL CROWN. PONDEROSA PINE IS GREAT FOR NATURALISTIC, INFORMAL, SETTINGS, AND IS BEST UTILIZED AS GROUPINGS FOR PARKS, GOLF COURSES, HIGHWAYS, AND LARGE ESTATES

KEY ADVANTAGES

- *EXCELLENT EVERGREEN WINDSCREEN
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING
- *VERY HIGH WILDLIFE VALUE

KEY DISADVANTAGES

- *MAY CONTRACT DISEASES IN THE EAST
- *SENSITIVE TO SOIL COMPACTION AND CONSTRUCTION DAMAGE

DESIGN CONSIDERATIONS

CLASS: LARGE EVERGREEN TREE
 MATURE HT X WT: 60-100' x 25-45'
 GROWTH RATE: SLOW; 6"/ YEAR
 TEXTURE/FORM: MEDIUM, CONICAL
 LONGEVITY: 250-400 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

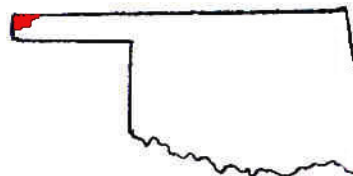
HABITAT: DRY UPLAND HILLSIDES, PLAINS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 5.0-7.0
 EXPOSURE: FULL SUN
 MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
 DISEASE: MODERATE; NEEDLE BLIGHT
 INSECT: MODERATE; NUMEROUS
 WIND/ICE: RESISTANT ;MOD. STRONG WOOD
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: 3 NEEDLES/ FASCICLE, 5-10" LONG
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: MEDIUM TO DARK GREEN
 FLOWER: ATTRACTIVE YELLOW POLLEN
 SEASON: JUNE
 FRUIT: RUST BROWN CONE
 BARK/STEM: BLACK/RUST BROWN, FURROWED





**LOBLOLLY
PINE**

Pinus taeda

LANDSCAPE EVALUATION

LOBLOLLY PINE IS GREAT FOR NATURALISTIC, INFORMAL, SETTINGS, AND IS BEST UTILIZED AS GROUPINGS. BECAUSE IT IS A FIRST SUCCESSION TREE IN THE ECOLOGY, IT MAKES A GREAT TREE FOR DISTURBED AREAS SUCH AS REFORESTATION PLOTS, STRIP MINE AREAS, HIGHWAY CUTS AND FILLS, HILLSIDES, REFORESTATION PLOTS, SHELTER BELT PLANTINGS, WIND BREAKS, AND EROSION CONTROL. CAN ALSO BE USED FOR FLOODPLAIN PARKS, GOLF COURSES, AND LARGE ESTATES.

KEY ADVANTAGES

- *FAST GROWTH WITH STRONG WOOD
- *WITHSTANDS HEAVY/DROUGHTY CLAYS
- *RESISTANT TO PINWOOD NEMATODE

KEY DISADVANTAGES

- *MAY BECOME WEEDY IN SOME AREAS
- *EVEN HEALTHY TREES TEND TO THIN AND APPEAR YELLOWISH IN WINTER

DESIGN CONSIDERATIONS

CLASS:MEDIUM/LARGE EVERGREEN TREE
MATURE HT X WT: 45-75' x 35-55'
GROWTH RATE: FAST; 24-36"/YEAR
TEXTURE/FORM: MEDIUM, OBOVOID
LONGEVITY: 100-200 YEARS
INVASIVENESS: YES, IN WET AREAS
POISONOUS: NO

HABITAT & CULTURE

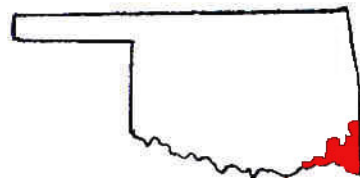
HABITAT:FORESTS, HILLSIDES, FLOOD PLAINS
SOIL: SANDY, ROCKY, CLAYISH, OR LOAMY
DRAINAGE: POOR TO WELL
pH: 4.5-6.5
EXPOSURE: FULL SUN
MOISTURE: VERY MOIST TO MOD. DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
DISEASE: MODERATE; HEART ROT
INSECT: MODERATE; PINE BEETLE
WIND/ICE: MODERATE; MEDIUM STRENGTH
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: 3 NEEDLES/ FASCICLE, 6-10" LONG
SPRING/SUMMER COLOR: LIGHT GREEN
FALL COLOR: YELLOW-GREEN, THINS OUT
FLOWER: ATTRACTIVE YELLOW POLLEN
SEASON: MAY-JUNE
FRUIT: RUST BROWN CONE
BARK/STEM: RUST BROWN, DEEP FURROWED



COTTONLESS
COTTONWOOD



Populus deltoides 'Robusta'

LANDSCAPE EVALUATION

VALUABLE LANDSCAPE TREE FOR AREAS WHICH ARE DISTURBED OR EXPERIENCE PERIODIC FLOODING WHERE LITTLE ELSE WILL GROW. USEFUL ALONG RIVER GREENWAYS, PARKS, GOLF COURSES, LARGE SCALE RESIDENTIAL, OPEN AREAS, AND EROSION CONTROL.

KEY ADVANTAGES

- *VERY FAST GROWTH RATE RESULTS IN A HANDSOME TREE THAT CAN BE ENJOYED IN ONE GENERATION
- * EASY TO PROPAGATE & TRANSPLANT
- * ESTABLISHES ITSELF QUICKLY
- *TOLERATES PERIODIC FLOODS
- *LEAVES CREATE PLEASANT BACKGROUND RUSTLE IN THE BREEZE.

KEY DISADVANTAGES

- *VERY SHORT LIFE EXPECTANCY
- *DESTRUCTIVE TO SIDEWALKS & PIPES
- *WEAK WOODED; TENDENCY TO BREAK DURING WIND OR ICE STORMS
- *SUSCEPTIBLE TO INSECTS & DISEASES

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
MATURE HT X WT: 75'-100' x 50'- 75'
GROWTH RATE: VERY FAST; 3-5'/YR
TEXTURE/FORM: COARSE, OBOVOID
LONGEVITY: 50-75 YEARS
INVASIVENESS: YES, SEEDLINGS PROLIFIC
POISONOUS: NO

HABITAT & CULTURE

HABITAT: RIVERBANKS, FLOOD PLAINS
SOIL: SILTY LOAM, SAND, CLAY, ORGANIC
DRAINAGE: POOR TO WELL
pH: 6.0-8.0
EXPOSURE: MODERATE SUN TO FULL SUN
MOISTURE: VERY MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3a-9
DISEASE: VERY SUSCEPTIBLE
INSECT: VERY SUSCEPTIBLE
WIND/ICE: VERY SUSCEPTIBLE, WEAK WOOD
DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, GLOSSY
SPRING/SUMMER COLOR: MEDIUM GREEN
FALL COLOR: YELLOW
FLOWER: INSIGNIFICANT, CATKIN
SEASON: MARCH- MAY
FRUIT: NONE OF CULTIVAR
BARK/STEM: ATTRACTIVE, LIGHT GRAY



**HONEY
MESQUITE**

Prosopis glandulosa

LANDSCAPE EVALUATION

MESQUITE IS A BEAUTIFUL UNDER-UTILIZED TREE THAT HAS PLENTY OF MERIT IN THE LANDSCAPE INDUSTRY. IT'S AN EXCELLENT TREE FOR ALL OF WESTERN TO CENTRAL OKLAHOMA WHERE SOILS ARE CALCAREOUS AND DROUGHTY. WHEN GROWN AS A SPECIMEN, THE TREE DEVELOPS A LOOSE, SOMEWHAT BROAD OVAL CROWN. USE FOR NATURALIZING, SHELTER BELT PLANTINGS, EXPOSED PLAZAS, RESIDENTIAL COURTYARDS GOLF COURSES & EROSION CONTROL.

KEY ADVANTAGES

- * HIGH ORNAMENTAL QUALITIES
- * THRIVES IN DRY, SANDY, INFERTILE SOIL
- * OPEN CANOPY, ALLOWS HEALTHY GRASS GROWTH UNDERNEATH.

KEY DISADVANTAGES

- * THORNY BRANCHES ARE UNDESIRABLE
- * MAY BECOME WEEDY IN SOME AREAS

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
MATURE HT X WT: 10-20' X 10-20'
GROWTH RATE: MEDIUM; 9-18" / YEAR
TEXTURE/FORM: FINE, GLOBULAR
LONGEVITY: 100-200 YEARS
INVASIVENESS: YES, RANGE LANDS
POISONOUS: NO, EDIBLE BEANS

HABITAT & CULTURE

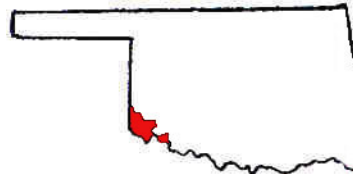
HABITAT: SANDY WASHES, DRY GRASSLANDS
SOIL: SANDY OR LOAMY, CALCAREOUS
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 7.0 -8.5
EXPOSURE: FULL SUN
MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-10
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT, STRONG WOOD
DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: OPPOSITE, BIPINNATELY COMPOUND
SPRING/SUMMER COLOR: LIGHT GREEN
FALL COLOR: YELLOW
FLOWER: YELLOW FRAGRANT CLUSTERS
SEASON: MAY-JULY
FRUIT: BROWN POD, SOMEWHAT MESSY
BARK/STEM: BROWN, ROUGH, FURROWED





**CHICKASAW
(SAND) PLUM**

Prunus angustifolia

LANDSCAPE EVALUATION

CHICKASAW PLUM FORMS A NICE, FINE TEXTURED THICKET WITH MULTI-SEASON INTEREST. IT DISPLAYS GREAT LANDSCAPE POTENTIAL ON UPLAND DIFFICULT SITES IN MOST OF OKLAHOMA, BUT SHOULD NOT BE USED IN SMALL AREAS WITH RICH, MOIST SOIL IN THESE SITUATIONS IT BECOMES EXTREMELY INVASIVE. USEFUL FOR EROSION CONTROL, LARGE RESIDENTIAL, HILLSIDES, NATURALIZING, HEDGEROWS, BACKGROUND PLANTINGS, HIGHWAYS, RECLAMATION, & PARKS.

KEY ADVANTAGES

- *FORMS THICKET OF SIMILAR SIZED PLANTS-TOLERANT OF HEAVY PRUNING
- *HIGH ORNAMENTAL QUALITIES
- *VERY HIGH WILDLIFE VALUE
- *EASY TO TRANSPLANT AND PROPAGATE

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION.
- *SHARP THORNS ON NEW GROWTH

DESIGN CONSIDERATIONS

CLASS: MED./LARGE DECIDUOUS SHRUB
 MATURE HT X WT: 4-8' x 5-10'
 GROWTH RATE: FAST; 24"-36"/ YEAR
 TEXTURE/FORM: FINE, GLOBULAR
 LONGEVITY: 10-20 YRS, ROOTS LONGER
 INVASIVENESS: YES, RANGE LANDS
 POISONOUS: NO, SWEET, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT: GRASSLANDS, SANDY RIVER BANKS
 SOIL: SANDY, OR LOAMY
 DRAINAGE: AVERAGE TO WELL
 pH: 6.0-8.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: AVERAGE TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
 DISEASE: MODERATE, LEAF SPOT, HEART ROT
 INSECT: MODERATE, LEAF CHEWING INSECTS
 WIND/ICE: VERY SUSCEPTIBLE; WEAK WOOD
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, POINTED
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: YELLOW
 FLOWER: 1/2" WHITE, 5 PETALS, CLUSTERS
 SEASON: MID TO LATE MARCH
 FRUIT: 1" ORANGE-RED PLUM, EDIBLE
 BARK/STEM: LIGHT REDDISH BROWN





MEXICAN PLUM

Prunus mexicana

LANDSCAPE EVALUATION

VERY ATTRACTIVE SMALL TREE WITH WHITE FLOWERS AND HANDSOME BLUE-GREEN FOLIAGE. LANDSCAPE USE SHOULD BE COMPARABLE TO OTHER SMALL SCALE TREES SUCH AS EASTERN RED BUD. WHEN GROWN AS A SPECIMEN, THE TREE DEVELOPS A LOOSE, SOMEWHAT BROAD OVAL CROWN. USEFUL FOR PLAZAS, PARKS RESIDENTIAL SITES & WOODED AREAS.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES- VERY ATTRACTIVE WHITE FLOWERS FOLLOWED BY PERSISTENT FRUITS
- *VERSATILE; SPECIMEN OR GROUPING
- *EASY TO TRANSPLANT & PROPAGATE

KEY DISADVANTAGES

- *CAN BE SHORT LIVED IF SOIL IS TOO RICH AND DRAINAGE ISN'T ADEQUATE.
- *SOMEWHAT MESSY IN FALL- NOT TO USED NEAR AUTOMOBILE TRAFFIC

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
 MATURE HT X WT: 15-20' X 15-25'
 GROWTH RATE: FAST; 24"/YEAR
 TEXTURE/FORM: MEDIUM, IRREGULAR
 LONGEVITY: 50-75 YEARS
 INVASIVENESS: NO, BUT SEEDS READILY
 POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT: DRY UPLAND FOREST & HILLSIDES
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: AVERAGE TO EXCESSIVELY WELL
 pH: 6.0-8.0
 EXPOSURE: FULL SHADE TO FULL SUN
 MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: MODERATE, LEAF SPOT, HEART ROT
 INSECT: MODERATE, LEAF CHEWING INSECTS
 WIND/ICE: RESISTANT ;MOD. STRONG WOOD
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, POINTED
 SPRING/SUMMER COLOR: BLUISH GREEN
 FALL COLOR: YELLOW, BROWN, NOT SHOWY
 FLOWER: 1" WHITE, 5 PETALS, CLUSTERS
 SEASON: MID TO LATE MARCH
 FRUIT: 1-1.5" PURPLE-RED PLUM, EDIBLE
 BARK/STEM: GRAY, ROUGH, FURROWED



**COMMON
HOP TREE**

Ptelea trifoliata



LANDSCAPE EVALUATION

AS PROOF OF IT'S ADAPTABILITY, HOP TREE IS ONE OF FEW TREES THAT CAN BE FOUND IN BOTH ENVIRONMENTAL EXTREMES OF OKLAHOMA; THE NORTH WEST AND SOUTH EAST CORNERS OF THE STATE. USEFUL FOR STREETSCAPES, HIGHWAYS, PLAZAS, RESIDENTIAL COURTYARDS, WOODED AREAS, & PARKS.

KEY ADVANTAGES

- *VALUED FOR ITS ABILITY TO GROW WELL IN BOTH FULL SHADE & FULL SUN
- *INTERESTING FRUITS AND FLOWERS
- *ATTRACTIVE MULTI-BRANCHING HABIT
- *VERY ADAPTABLE WIDESPREAD RANGE
- *NO MAJOR DISEASE/ INSECT PROBLEMS

KEY DISADVANTAGES

- *NOT AVAILABLE IN NURSERY TRADE
- *HAS TENDENCY TO COLONIZE; SURFACE ROOTS SUCKER IF DAMAGED
- *WILL NOT TOLERATE POOR TO AVERAGE DRAINAGE OR HEAVY CLAY SOILS.

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
MATURE HT X WT: 10-20'x 10-20'
GROWTH RATE: MEDIUM; 9-18" / YEAR
TEXTURE/FORM: MEDIUM, GLOBULAR
LONGEVITY: 75-150 YEARS
INVASIVENESS: YES
POISONOUS: NO

HABITAT & CULTURE

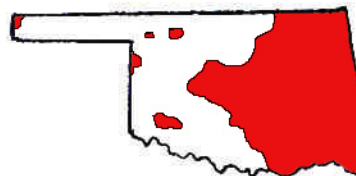
HABITAT: DRY ROCKY UPLANDS, FORESTS
SOIL: SANDY, ROCKY, OR LOAMY
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 4.0-7.0
EXPOSURE: FULL SHADE TO FULL SUN
MOISTURE: MOIST TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 5a-8a
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: RESISTANT
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: TRI-FOLIATE, COMPOUND, GLOSSY
SPRING/SUMMER COLOR: LT./ MED. GREEN
FALL COLOR: YELLOW
FLOWER: FLAT YELLOW-GREEN CLUSTER
SEASON: JUNE
FRUIT: TAN CIRCULAR SAMARA, PERSISTENT
BARK/STEM: SMOOTH, RED BROWN/GRAY





GAMBLE
OAK

Quercus gambelii

LANDSCAPE EVALUATION

GAMBEL OAK FORMS AN ATTRACTIVE MULTI-TRUNK TREE OR THICKET WITH GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN N.W. OKLAHOMA. USEFUL FOR RESIDENTIAL, COMMERCIAL, HILLSIDES NATURALISTIC PLANTINGS, HIGHWAYS, PARKS AND RECREATION SITES, AND FOREST PRESERVATION AREAS.

KEY ADVANTAGES

- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING
- *HIGH ORNAMENTAL QUALITIES
- *VERY HIGH WILDLIFE VALUE
- *FORMS NON-INVASIVE THICKET OF EQUAL SIZED PLANTS- NO PRUNING
- *EXCELLENT RED/ORANGE FALL COLOR

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS.
- *MAY CONTRACT DISEASES IN THE EAST
- *MAY SUFFER FROM HEAT STRESS
- *DIFFICULT TO TRANSPLANT

DESIGN CONSIDERATIONS

CLASS: VERY LARGE DECIDUOUS SHRUB
MATURE HT X WT: 6-20' x 6-12'
GROWTH RATE: SLOW; 6"/ YEAR
TEXTURE/Form: MEDIUM, GLOBULAR
LONGEVITY: 150-300 YEARS
INVASIVENESS: NO

HABITAT & CULTURE

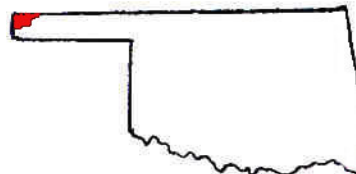
HABITAT: VALLEYS, HILLSIDES, CLIFFS
SOIL: SANDY, ROCKY, OR LOAMY
DRAINAGE: AVERAGE TO EXCESSIVELY WELL
pH : 4.5-8.0
EXPOSURE: FULL SUN
MOISTURE: AVERAGE TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4-6
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, 7-11 LOBED, ALT.
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: RED/ORANGE, YELLOW
FLOWER: INSIGNIFICANT, CATKIN
SEASON: MAY, YELLOW POLLEN UNDESIRABLE
FRUIT: TAN ACORN, NOT MESSY
BARK/STEM: GREY, ROUGH, FURROWED





**BURR
OAK**

Quercus macrocarpa

LANDSCAPE EVALUATION

BURR OAK MAKES AN EXCELLENT LARGE-SCALE LANDSCAPE TREE DUE TO ITS ORNAMENTAL CHARACTERISTICS AND ITS ABILITY TO ADAPT TO DIFFERENT ENVIRONMENTAL CONDITIONS. IT MAKES A NICE SPECIMEN TREE FOR RESIDENTIAL SITES, PARKS, GOLF COURSES, NATURALIZING, AND URBAN SITES.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *VERY DURABLE, STRONG WOOD
- *VERY TOLERANT OF CITY CONDITIONS
- *NICE PICTURESQUE SHAPE WITH AGE.
- *VERY LONG LIVED, DESPITE DISEASES

KEY DISADVANTAGES

- *SLOW GROWTH RATE
- *DIFFICULT TO TRANSPLANT(TAPROOT)
- *LARGE ACORNS MAY DAMAGE CARS
- *DISEASES CAN BE PROBLEMATIC, BUT ARE USUALLY NOT FATAL.
- *INTOLERANT TO CONSTRUCTION

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
 MATURE HT X WT: 75-100' x 75-100'
 GROWTH RATE: SLOW; 6"/ YEAR
 TEXTURE/FORM: COURSE, GLOBULAR
 LONGEVITY: 200-300 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

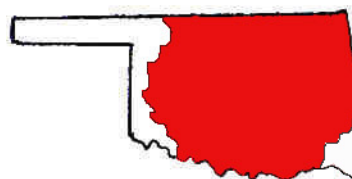
HABITAT:FORESTS,FLOOD PLAINS, DRY HILLS
 SOIL: COARSE SANDS TO FINE CLAY LOAMS
 DRAINAGE: AVERAGE TO WELL
 pH: 4.5-8.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3-8
 DISEASE: SUSCEPTIBLE; OAK WILT, ECT.
 INSECT: MODERATE; OAK LEAF CATERPILLAR
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, 3-LOBED, ALT, COARSE
 SPRING/SUMMER COLOR: LT. TO DK. GREEN
 FALL COLOR: BROWN, SOMETIMES RED
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: MAY
 FRUIT: LARGE ACORN, SOMEWHAT MESSY
 BARK/STEM:ATTRACTIVE, DEEPLY FURROWED





**BLACKJACK
OAK**

Quercus marilandica

LANDSCAPE EVALUATION

BLACKJACK OAK IS AN BEAUTIFUL NAT-IVE TREE FOR NATURALIZING, WOOD-LANDS, GOLF COURSES, SMALL TO LARGE RESIDENTIAL ESTATES, AND NEIGHBORHOOD SUBDIVISIONS. ALTHOUGH IT IS USUALLY ENCOUNTERED IN A DENSE FOR-EST; WHEN GROWN AS A SPECIMEN, THE TREE DEVELOPS A DENSE, SOMEWHAT BROAD OVAL, CROWN. EFFORT SHOULD BE TAKEN TO PRESERVE STANDS OF THIS TREE DURING CONSTRUCTION.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *VERY DURABLE, STRONG WOOD
- *VERSATILE; SPECIMEN OR GROUPING
- *TOLERATES DRY,SANDY,INFERTILE SOIL

KEY DISADVANTAGES

- *RETAINS DEAD LEAVES IN WINTER
- *INTOLERANT TO CONSTRUCTION
- *DIFFICULT TO TRANSPLANT AND PROPAGATE, RARE IN NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT:35-45' X 25-35'
 GROWTH RATE: SLOW; 6"/YEAR
 TEXTURE/Form: MEDIUM, OVOID
 LONGEVITY: 150-300 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY UPLAND FOREST & HILLSIDES
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 4.5-6.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: AVERAGE TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
 DISEASE: MODERATE; OAK WILT, HEART ROT
 INSECT: RESISTANT; OAK SKELETONIZER
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, 3-LOBED, ALT.
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW, BROWN, PERSISTENT
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: MAY,YELLOW POLLEN UNDESIRABLE
 FRUIT: TAN ACORN, NOT MESSY
 BARK/STEM: ATTRACTIVE, BLOCKY, BLACK





CHINQUAPIN
OAK

Quercus muhlenbergi

LANDSCAPE EVALUATION

CHINQUAPIN OAK IS A WELL- QUALIFIED NATIVE LANDSCAPE TREE WORTH SAVING; EFFORT SHOULD BE TAKEN TO PRESERVE STANDS OF THIS TREE DURING CONSTRUCTION. USE FOR NATURALIZING. FOREST PRESERVATIONS, GOLF COURSES, AND NEIGHBORHOOD SUBDIVISIONS.

KEY ADVANTAGES

- *GROWS WELL ON DRY ROCKY LIMESTONE OUTCROPPINGS WITH HIGH PH
- *DISPLACE BEST GROWTH ON MOIST, RICH BOTTOMLAND LOAMS.
- *PICTURESQUE WHEN OLDER
- *VERSATILE; SPECIMEN OR GROUPING

KEY DISADVANTAGES

- * DIFFICULT TO TRANSPLANT(TAPROOT)
- * INTOLERANT TO CONSTRUCTION
- * LACK OF OUTSTANDING ORNAMENTAL CHARACTERISTICS LIMITS POPULARITY
- *SLOW GROWTH RATE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
MATURE HT X WT: 40-50' x 40-60'
GROWTH RATE: SLOW; 6"-12"/YEAR
TEXTURE/Form: MEDIAN, GLOBULAR
LONGEVITY: 200-300 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY UPLAND FOREST, OUTCROPS
SOIL: SANDY, ROCKY, OR LOAMY CLAYS
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 6.0-8.5
EXPOSURE: AVERAGE TO FULL SUN
MOISTURE: AVERAGE TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4b-8
DISEASE: MODERATE; OAK WILT, HEART ROT
INSECT:MODERATE;LEAF MINER,GYPSY MOTH
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: NARROWLY ELLIPTICAL - OVATE
SPRING/SUMMER COLOR: YELLOW GREEN
FALL COLOR: BROWNISH YELLOW
FLOWER: INSIGNIFICANT CATKIN
SEASON: MAY TO JUNE
FRUIT: BROWNISH TAN ACORN
BARK/STEM: SCALY BROWN BARK





**WATER
OAK**

Quercus nigra

LANDSCAPE EVALUATION

WATER OAK IS WELL QUALIFIED TREE FOR AREAS WITH MODERATELY GOOD SOIL AND PERIODICALLY CHANGING SOIL DRAINAGE CONDITIONS. A WIDE VARIETY OF USES INCLUDE: FLOOD PLAIN PARKS, RIVER GREENWAYS, NEIGHBORHOOD SUBDIVISIONS, NATURALIZING, GOLF COURSES, AND WETLAND RECLAMATION, RESIDENTIAL AND COMMERCIAL SITES, SPECIMEN (SOLITARY) & URBAN PLAZAS

KEY ADVANTAGES

- *DARK GREEN FOLIAGE PERSISTS UNTIL MID DECEMBER OR LATER
- *TOLERATES RANGE OF SOIL DRAINAGE CONDITIONS ESPECIALLY WET/SWAMPY
- *EASY TO TRANSPLANT AND ESTABLISH

KEY DISADVANTAGES

- *WILL NOT TOLERATE HIGH PH SOILS
- *MAY BECOME WEEDY IN WET AREAS
- *MORE WEAK-WOODED THAN MOST OAKS
- *LOW TO MOD. DROUGHT TOLERANCE

DESIGN CONSIDERATIONS

CLASS: LARGE SEMI-EVERGREEN TREE
 MATURE HT X WT: 60-80' x 65-85'
 GROWTH RATE: MEDIUM; 16"-28"/YEAR
 TEXTURE/FORM: FINE, GLOBULAR
 LONGEVITY: 100-150 YEARS
 INVASIVENESS: YES, IN MOIST SOILS
 POISONOUS: NO

HABITAT & CULTURE

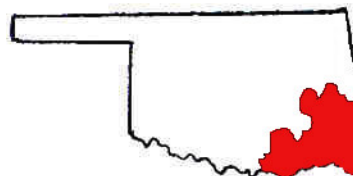
HABITAT: BOGGS, FOREST, VALLEYS, RIVERS
 SOIL: SILTY LOAM, CLAY, ORGANIC
 DRAINAGE: EXTREMELY POOR TO WELL
 pH: 4.0-6.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: EXTREMELY MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
 DISEASE: RESISTANT
 INSECT: RESISTANT
 WIND/ICE: MODERATE; MEDIUM STRENGTH
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, WEDGE SHAPED
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: DARK GREEN, PERSISTENT
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: LATE MAY
 FRUIT: SMALL TAN ACORN, NOT MESSY
 BARK/STEM: SMOOTH, DARK GRAY/BLACK





WILLOW
OAK

Quercus phellos

LANDSCAPE EVALUATION

WILLOW OAK IS A BEAUTIFUL, UNDER-UTILIZED TREE WITH PLENTY OF MERIT IN THE LANDSCAPE INDUSTRY HAVING HIGH VALUE FOR AREAS WITH MODERATELY GOOD SOIL AND PERIODICALLY CHANGING SOIL DRAINAGE CONDITIONS. A WIDE VARIETY OF USES INCLUDE: FLOOD PLAIN PARKS, GREENWAYS, NATURALIZING, GOLF COURSES, SPECIMEN (SOLITARY) RESIDENTIAL AND COMMERCIAL SITES, AND URBAN PLAZAS

KEY ADVANTAGES

- *ONE OF THE BEST OAKS FOR OVERALL TEXTURE AND FORM- MAJESTIC
- *EASY TO TRANSPLANT AND ESTABLISH
- *TOLERATES RANGE OF SOIL DRAINAGE CONDITIONS ESPECIALLY WET/SWAMPY

KEY DISADVANTAGES

- *WILL NOT TOLERATE HIGH PH SOILS
- *MORE WEAK-WOODED THAN MOST OAKS
- *LOW TO MOD. DROUGHT TOLERANCE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 40-60' x 30-40'
 GROWTH RATE: MEDIUM; 12"-24"/YEAR
 TEXTURE/FORM: FINE, GLOBULAR
 LONGEVITY: 100-150 YEARS
 INVASIVENESS: YES, IN MOIST SOILS
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: BOGGS, FOREST, VALLEYS, RIVERS
 SOIL: SILTY LOAM, SAND, CLAY, ORGANIC
 DRAINAGE: POOR TO WELL
 pH: 4.0-6.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6b-9
 DISEASE: RESISTANT
 INSECT: RESISTANT
 WIND/ICE: MODERATE; MEDIUM STRENGTH
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, LANCE-SHAPED,
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: YELLOW, BRONZE
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: LATE MAY
 FRUIT: SMALL TAN ACORN, NOT MESSY
 BARK/STEM: FURROWED, DARK GRAY/BLACK





DWARF
CHINQUAPIN OAK

Quercus prinoides

LANDSCAPE EVALUATION

DWARF CHINQUAPIN OAK FORMS AN BEAUTIFUL, HEDGE-LIKE THICKET THAT IS SLOW GROWING AND NOT INVASIVE. DISPLAYS GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN ALL OKLAHOMA WHERE DRAINAGE IS GOOD. USEFUL FOR RESIDENTIAL, COMMERCIAL, HILLSIDES, NATURALISTIC PLANTINGS, HIGHWAYS, & PARKS AND RECREATION SITES.

KEY ADVANTAGES

- *FORMS NON INVASIVE THICKET OF EQUAL SIZED PLANTS- NO PRUNING
- *HIGH ORNAMENTAL QUALITIES
- *VERY HIGH WILDLIFE VALUE
- *GROWS WELL ON DRY ROCKY LIMESTONE OUTCROPPINGS WITH HIGH PH
- *GOOD YELLOW/ORANGE FALL COLOR

KEY DISADVANTAGES

- *WILL LANGUISH IN WET OR CLAY SOILS.
- *RARE IN NURSERY TRADE
- *DIFFICULT TO TRANSPLANT

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS SHRUB
 MATURE HT X WT: 2-6' x 4-8'
 GROWTH RATE: VERY SLOW; 3"/ YEAR
 TEXTURE/Form: MEDIUM, GLOBULAR
 LONGEVITY: 200-300 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: FOREST EDGES, HILLS, GRASSLANDS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 6.5-8.0
 EXPOSURE: FULL SUN
 MOISTURE: AVERAGE TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4-9
 DISEASE: VERY RESISTANT
 INSECT: VERY RESISTANT
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, ELLIPTICAL
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: RED/ORANGE, YELLOW
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: MAY, YELLOW POLLEN UNDESIRABLE
 FRUIT: TAN ACORN, NOT MESSY
 BARK/STEM: GREY, ROUGH, BLOCKY





**NORTHERN
RED OAK**

Quercus rubra

LANDSCAPE EVALUATION

NORTHERN RED OAK IS ONE OF THE FEW OAKS THAT COMBINES THE ADVANTAGES OF BEING FAST GROWING WITH STRONG WOOD. A WIDE VARIETY OF USES INCLUDE URBAN PLAZAS, PARKS, RIVER GREENWAYS, NEIGHBORHOOD SUBDIVISIONS, NATURALIZING, GOLF COURSES, STREETSCAPES, COMMERCIAL AND RESIDENTIAL SITES.

KEY ADVANTAGES

- *TOLERANT TO POLLUTION IN URBAN SITES WITH HEAVY TRAFFIC & SALT
- *OUTSTANDING RED FALL COLOR
- *HIGH ORNAMENTAL QUALITIES
- *FAST GROWTH WITH STRONG WOOD
- *VERSATILE; SPECIMEN OR GROUPING

KEY DISADVANTAGES

- *NOT SUITABLE FOR DROUGHTY SITES
- *WILL NOT TOLERATE HIGH PH SOILS
- *SENSITIVE TO GRADE CHANGES
- *RETAINS DEAD LEAVES IN WINTER

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
 MATURE HT X WT: 75-100' x 60-85'
 GROWTH RATE: MEDIUM; 12"-24"/YEAR
 TEXTURE/Form: MEDIUM, GLOBULAR
 LONGEVITY: 150-250 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

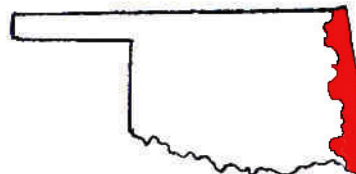
HABITAT: FORESTS, RIVERBANKS, PRAIRIE
 SOIL: RICH, MEDIUM TO FINE SILT LOAMS
 DRAINAGE: AVERAGE TO WELL
 pH: 5.0-6.5
 EXPOSURE: MODERATE TO FULL SUN
 MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3b-7a
 DISEASE: RESISTANT
 INSECT: RESISTANT
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, 5-LOBED, ALT.
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: RED, BRONZE
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: LATE MAY
 FRUIT: TAN ACORN, NOT MESSY
 BARK/STEM: FURROWED, DARK GRAY/BLACK



SHUMARD
OAK

Quercus shumardii



LANDSCAPE EVALUATION

SHUMARD OAK IS A BEAUTIFUL NATIVE TREE VERY SIMILAR IN APPEARANCE TO THE COMMON PIN OAK AND IS HIGHLY TOUTED FOR ITS ABILITY TO THRIVE IN HIGH PH SOILS. A WIDE VARIETY OF USES INCLUDE PARKS, RIVER GREENWAYS, NEIGHBORHOOD SUBDIVISIONS, NATURALIZING, GOLF COURSES, STREETSCAPES, COMMERCIAL AND RESIDENTIAL SITES.

KEY ADVANTAGES

- *EASY TO TRANSPLANT & PROPAGATE
- *TOLERANT TO URBAN CONDITIONS
- *OUTSTANDING RED FALL COLOR
- *HIGH ORNAMENTAL QUALITIES
- *FAST GROWTH WITH STRONG WOOD
- *WILL TOLERATE HIGH PH SOILS TO 8.0
- *FREE OF LETHAL DISEASES & INSECTS

KEY DISADVANTAGES

- *SENSITIVE TO GRADE CHANGES
- *RETAINS DEAD LEAVES IN WINTER
- *NO PROOF OF PERFORMANCE IN WEST 1/2 OF STATE; NEEDS IRRIGATION

DESIGN CONSIDERATIONS

CLASS: LARGE DECIDUOUS TREE
MATURE HT X WT: 75-100' x 60-85'
GROWTH RATE: MEDIUM; 12"-24"/YEAR
TEXTURE/Form: MEDIUM, GLOBULAR
LONGEVITY: 150-250 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

HABITAT: FORESTS, RIVERBANKS, PRAIRIE
SOIL: RICH, CLAYS AND SILT LOAMS
DRAINAGE: AVERAGE TO WELL
pH: 5.0-8.0
EXPOSURE: MODERATE TO FULL SUN
MOISTURE: MOIST TO AVERAGE

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9a
DISEASE: RESISTANT
INSECT: RESISTANT
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, 7 DEEP LOBES
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: DEEP RED TO BRONZE
FLOWER: INSIGNIFICANT CATKIN
SEASON: MAY TO JUNE
FRUIT: MEDIUM, BROWNISH TAN ACORN
BARK/STEM: SCALY BROWN BARK



POST
OAK



Quercus stellata

LANDSCAPE EVALUATION

POST OAK IS AN GREAT NATIVE TREE FOR NATURALIZING. FOREST PRESERVATIONS, GOLF COURSES, SMALL TO LARGE RESIDENTIAL ESTATES AND NEIGHBORHOOD SUBDIVISIONS. WHEN GROWN AS A SPECIMEN, THE TREE DEVELOPS A BROAD OVAL, CROWN, BUT IT'S USUALLY MORE EFFECTIVELY USED AS A MASS PLANTING. EFFORT SHOULD BE TAKEN TO PRESERVE STANDS OF THIS TREE ALONG WITH BLACKJACK OAK DURING NEW CONSTRUCTION.

KEY ADVANTAGES

- *VERSATILE; SPECIMEN OR GROUPING
- *VERY DURABLE, STRONG WOOD
- *VERY HIGH WILDLIFE VALUE
- *TOLERATES DRY, SANDY, INFERTILE SOIL

KEY DISADVANTAGES

- *MESSY; TWIG DROP, POLLEN, ACORNS
- *INTOLERANT TO CONSTRUCTION
- *RARE IN NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 35-45' X 35-45'
 GROWTH RATE: SLOW; 6"/YEAR
 TEXTURE/Form: MEDIUM, GLOBULAR
 LONGEVITY: 150-350 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY UPLAND FOREST & HILLSIDES
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 4.5-6.0
 EXPOSURE: AVERAGE TO FULL SUN
 MOISTURE: AVERAGE TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
 DISEASE: MODERATE; OAK WILT, HEART ROT
 INSECT: RESISTANT; OAK SKELETONIZER
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, 3-LOBED, ALT.
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW, BROWN, PERSISTENT
 FLOWER: INSIGNIFICANT, CATKIN
 SEASON: MAY, YELLOW POLLEN UNDESIRABLE
 FRUIT: TAN ACORN, NOT MESSY
 BARK/STEM: GREY TO BROWN, FURROWED





QUARTZ MOUNTAIN
LIVE OAK

Quercus virginiana var. *fusiformis*

LANDSCAPE EVALUATION

QUARTZ MOUNTAIN LIVE OAK IS A NORTHERN DISJUNCT POPULATION OF THE COMMON SOUTHERN LIVE OAK. IT IS A DWARF FORM WITH SPECIAL ADAPTATION TO THE COLDER, DRIER CLIMATE OF OKLAHOMA. GREAT LANDSCAPE POTENTIAL IS EXHIBITED BY THIS SOLITARY OR MULTI-TRUNK TREE IN WESTERN OKLAHOMA. USEFUL FOR NATURALIZING, PARKS, RECREATION SITES, HIGHWAYS, RESIDENTIAL, WIND SCREENS, COMMERCIAL PLAZAS AND STREETSCAPES

KEY ADVANTAGES

- *EXTREMELY STRONG DENSE WOOD
- *DENSE ATTRACTIVE GLOSSY FOLIAGE
- *HIGH WILDLIFE VALUE; NATURALIZING
- *VERY TOLERANT OF CITY CONDITIONS

KEY DISADVANTAGES

- *UNCOMMON IN THE NURSERY TRADE
- *MAY FREEZE BACK IN NORTH OF NATIVE RANGE DURING HARSH WINTERS

DESIGN CONSIDERATIONS

CLASS: SMALL EVERGREEN TREE
MATURE HT X WT: 20-30'x 20-30'
GROWTH RATE: MEDIUM; 9-18" / YEAR
TEXTURE/FORM: MEDIUM, GLOBULAR
LONGEVITY: 150-250 YEARS
INVASIVENESS: YES
POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY ROCKY HILLS, SANDY VALLEYS
SOIL: ROCKY TO SANDY LOAM
DRAINAGE: WELL TO EXCESSIVELY WELL
pH: 6.0-8.0
EXPOSURE: FULL SUN
MOISTURE: AVERAGE TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4-8
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, GLOSSY
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: DARK GREEN
FLOWER: INSIGNIFICANT CATKIN
SEASON: MAY TO JUNE
FRUIT: BROWNISH TAN ACORN
BARK/STEM: DEEPLY FURROWED BROWN BARK





CAROLINA
BUCKTHORN

Rhamnus caroliniana

LANDSCAPE EVALUATION

DESPITE IT'S COMMON NAME, CAROLINA BUCKTHORN HAS NO THORNS. EXCEPTIONAL ORNAMENTAL QUALITIES AND "TAME" GROWTH HABIT MAKE THIS NATIVE PLANT WORTHY OF MORE WIDE-SPREAD USE. BECAUSE IT'S ABLE TO ADAPT TO MANY LANDSCAPE SITUATIONS AND MAINTENANCE PRACTICES, IT IS WORTHY OF CONSIDERATION FOR THE FOLLOWING USES: URBAN PLAZAS, COMMERCIAL SITES, RESIDENTIAL COURTYARDS, WOODED AREAS, AND PARKS.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *GREAT SPECIMEN/ACCENT PLANT
- *COMPACT, NEAT GROWTH HABIT.
- *GROWS IN FULL SHADE OR FULL SUN
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *INTOLERANT TO CONSTRUCTION
- *NOT SUITABLE FOR DROUGHTY SITES
- *UNCOMMON IN THE NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: LARGE SEMI-EVERGREEN SHRUB
 MATURE HT X WT: 8-15' X 10-15'
 GROWTH RATE: MEDIUM; 12"-24"/YEAR
 TEXTURE/FORM: MEDIUM, GLOBULAR
 LONGEVITY: 100-150 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

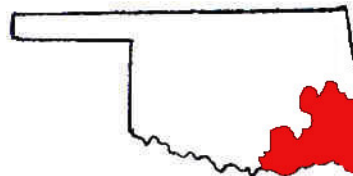
HABITAT: FORESTS, RIVERBANKS, PRAIRIE
 SOIL: RICH, MEDIUM TO FINE SILT LOAMS
 DRAINAGE: MODERATELY POOR TO WELL
 pH: 5.5-7.0
 EXPOSURE: FULL SHADE TO MODERATE SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: VERY RESISTANT
 INSECT: VERY RESISTANT
 WIND/ICE: RESISTANT; MOD. STRONG WOOD
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ALTERNATE, GLOSSY
 SPRING/SUMMER COLOR: BRIGHT GREEN
 FALL COLOR: DEEP YELLOW, LATE TO COLOR
 FLOWER: INSIGNIFICANT WHITE CLUSTERS
 SEASON: MAY- JUNE
 FRUIT: 1/3" RED, FADING TO BLACK, BERRY
 BARK/STEM: GREY, LIGHTLY FISSURED





GRO-LOW
FRAGRANT SUMAC

LANDSCAPE EVALUATION

GRO-LOW FRAGRANT SUMAC IS BECOMING VERY POPULAR IN THE MIDWEST AS A LOW GROWING SHRUB/ GROUND- COVER BUT OKLAHOMA HAS YET TO REALIZE IT'S STELLAR LANDSCAPE QUALITIES. USE CULTIVAR FOR SMALL TO LARGE RESIDENTIAL, COMMERCIAL, URBAN AREAS, STREETSCAPES, EROSION CONTROL, HILLSIDES, HIGHWAYS.

KEY ADVANTAGES

- *VERY SHOWY REDDISH FRUITS-AUTUMN
- *TOLERATES DRY, SANDY, INFERTILE SOIL
- *ATTRACTIVE FOLIAGE, FRUIT AND FORM
- *ONE OF THE BEST OF ALL NATIVE SHRUBS FOR INTENSITY AND CONSISTENCY OF FALL COLOR.
- *INVASIVE, BUT EASY TO ERADICATE.
- *TOLERATES WIDE RANGE OF SOIL pH

KEY DISADVANTAGES

- *VERY INTOLERANT OF SHADE
- *CAN BE SHORT LIVED IF SOIL IS TOO RICH AND DRAINAGE ISN'T ADEQUATE.

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS SHRUB
 MATURE HT X WT: 1-3' x 5-8'
 GROWTH RATE: SLOW; 6"/ YEAR
 TEXTURE/FORM: MEDIUM, GLOBULAR
 LONGEVITY: 20-30 YRS, ROOTS LONGER
 INVASIVENESS: YES, ROOT SUCKERS
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY ROCKY UPLANDS, GRASSLANDS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 6.0-8.5
 EXPOSURE: FULL SUN
 MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4a-9
 DISEASE: MOD; VERTICILLIUM WILTS, CANKER
 INSECT: RESISTANT, SOME CHEWING INSECTS
 WIND/ICE: VERY RESISTANT; LOW GROWTH
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: TRI-FOLIATE, GLOSSY, ALTERNATE
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: BRILLIANT RED, LONG LASTING
 FLOWER: YELLOW/GREEN PYRAMIDAL SPIKE
 SEASON: EARLY TO MID JULY
 FRUIT: DEEP WINE RED CLUSTER OF BERRIES
 BARK/STEM: BROWN, SMOOTH



Rhus aromatica 'Gro-low'



**FLAMELEAF
SUMAC**

Rhus copallina

LANDSCAPE EVALUATION

FLAME LEAF SUMAC IS ATTRACTIVE SMALL TREE USEFUL FOR EASTERN AREAS IT IS MOST ATTRACTIVE AS A COLONY OF MANY PLANTS ARRANGED IN A NATURALISTIC MANOR. NETWORK OF LONG LIVING ROOTS PERPETUATE COLONY WHEN TOP GROWTH DIES.USE FOR LARGE RESIDENTIAL, EROSION CONTROL, HILLSIDES, NATURALIZING, HIGHWAYS, PARKS RECREATION SITES, & FOREST EDGES.

KEY ADVANTAGES

- *ONE OF THE BEST OF ALL AMERICAN TREES/SHRUBS FOR INTENSITY AND CONSISTENCY OF FALL COLOR.
- *VERY HIGH WILDLIFE VALUE
- *TOLERATES DRY,SANDY,INFERTILE SOIL

KEY DISADVANTAGES

- *SOFT, LIGHT WOOD SNAPS IN STORMS
- *VERY INTOLERANT OF SHADE
- *CAN BE SHORT LIVED IF SOIL IS TOO RICH AND DRAINAGE ISN'T ADEQUATE.

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
 MATURE HT X WT: 10-35' X 8-25'
 GROWTH RATE:VERY FAST; 36"- 48"/YR.
 TEXTURE/Form: COURSE, IRREGULAR
 LONGEVITY: 15-30 YRS, ROOTS LONGER
 INVASIVENESS: YES, RANGE LANDS
 POISONOUS: NO, SOUR, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT:FOREST EDGES, HILLS, GRASSLANDS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: AVERAGE TO EXCESSIVELY WELL
 pH: 6.0-7.0
 EXPOSURE: FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5a-9
 DISEASE: MOD; VERTICILLIUM WILTS, CANKER
 INSECT: RESISTANT, SOME CHEWING INSECTS
 WIND/ICE: VERY SUSCEPTIBLE; WEAK WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: PINNATELY COMPOUND, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: BRILLIANT RED, LONG LASTING
 FLOWER:YELLOW/GREEN PYRAMIDAL SPIKE
 SEASON: MID TO LATE JULY
 FRUIT: CRIMSON RED CLUSTER OF BERRIES
 BARK/STEM: BROWN, SMOOTH





SMOOTH SUMAC

Rhus glabra

LANDSCAPE EVALUATION

SMOOTH SUMAC IS ATTRACTIVE LARGE SHRUB USEFUL FOR EASTERN AREAS. IT IS MOST ATTRACTIVE AS A COLONY OF MANY PLANTS ARRANGED IN A NATURALISTIC MANOR. NETWORK OF LONG LIVING ROOTS PERPETUATE COLONY WHEN TOP GROWTH DIES. USE FOR LARGE RESIDENTIAL, EROSION CONTROL, HILLSIDES, NATURALIZING, HIGHWAYS, PARKS, RECREATION SITES, & GOLF COURSES.

KEY ADVANTAGES

- *ONE OF THE BEST OF ALL AMERICAN TREES/SHRUBS FOR INTENSITY AND CONSISTENCY OF FALL COLOR.
- *VERY SHOWY REDDISH FRUITS-AUTUMN
- *TOLERATES DRY, SANDY, INFERTILE SOIL

KEY DISADVANTAGES

- *SOFT, LIGHT WOOD SNAPS IN STORMS
- *VERY INTOLERANT OF SHADE
- *CAN BE SHORT LIVED IF SOIL IS TOO RICH AND DRAINAGE ISN'T ADEQUATE.

DESIGN CONSIDERATIONS

CLASS: VERY LARGE DECIDUOUS SHRUB
 MATURE HT X WT: 6-20' x 6-12'
 GROWTH RATE: FAST; 24"-36"/ YEAR
 TEXTURE/FORM: COURSE, IRREGULAR
 LONGEVITY: 15-30 YRS, ROOTS LONGER
 INVASIVENESS: YES, RANGE LANDS
 POISONOUS: NO, SOUR, EDIBLE FRUITS

HABITAT & CULTURE

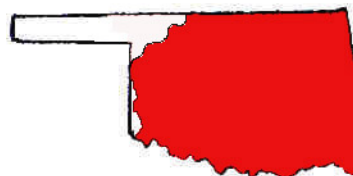
HABITAT: FOREST EDGES, HILLS, GRASSLANDS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: AVERAGE TO EXCESSIVELY WELL
 pH: 6.0-7.0
 EXPOSURE: FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 2-9
 DISEASE: MOD; VERTICILLIUM WILTS, CANKER
 INSECT: RESISTANT, SOME CHEWING INSECTS
 WIND/ICE: VERY SUSCEPTIBLE; WEAK WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: PINNATELY COMPOUND, GLOSSY
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: BRILLIANT RED, LONG LASTING
 FLOWER: YELLOW/GREEN PYRAMIDAL SPIKE
 SEASON: EARLY TO MID JULY
 FRUIT: CRIMSON RED CLUSTER OF BERRIES
 BARK/STEM: BROWN, SMOOTH





PURPLE ROBE
BLACK LOCUST

LANDSCAPE EVALUATION

BLACK LOCUST IS KNOWN FOR ITS ABILITY TO THRIVE IN ANY SOIL CONDITIONS EXCEPT THOSE WHICH ARE PERMANENTLY WET DUE TO ITS ABILITY TO FIX NITROGEN IN THE SOIL. DESPITE ITS DISADVANTAGES, THIS TREE DEFINITELY HAS MERITS IN DIFFICULT PLACES SUCH AS STRIP MINE AREAS, HIGHWAY CUTS AND FILLS, HILLSIDES, REFORESTATION PLOTS, SHELTER BELT PLANTINGS, AND EROSION CONTROL.

KEY ADVANTAGES

- *VERY ATTRACTIVE ROSE PINK FLOWERS
- *FAST GROWTH WITH STRONG WOOD
- *ESTABLISHES ITSELF QUICKLY
- *EASY TO PROPAGATE & TRANSPLANT

KEY DISADVANTAGES

- *SHORT LIFE EXPECTANCY
- *SUSCEPTIBLE TO INSECTS & DISEASES
- *THORNY BRANCHES ARE UNDESIRABLE
- *MAY BECOME WEEDY IN SOME AREAS

DESIGN CONSIDERATIONS

CLASS: MEDIAN DECIDUOUS TREE
MATURE HT X WT: 30'-50' x 20'-30'
GROWTH RATE: VERY FAST; 24"- 48"/YR.
TEXTURE/Form: MEDIUM, IRREGULAR
LONGEVITY: 50-75 YEARS
INVASIVENESS: YES, IN MOIST SOILS
POISONOUS: NO

HABITAT & CULTURE

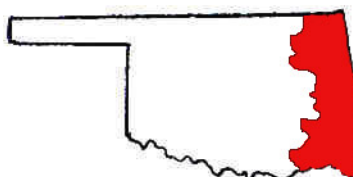
HABITAT: DISTURBED AREAS, HILLSIDES
SOIL: ALL; STERILE SANDS TO HEAVY CLAYS
DRAINAGE: AVERAGE TO WELL
pH: 5.0-8.0
EXPOSURE: AVERAGE TO FULL SUN
MOISTURE: MOIST TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 3-9
DISEASE: VERY SUSCEPTIBLE, CANKER, ECT.
INSECT: VERY SUSCEPTIBLE, LOCUST BORER
WIND/ICE: VERY RESISTANT, STRONG WOOD
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: ALTERNATE, PINNATELY COMPOUND
SPRING/SUMMER COLOR: DULL BLUE-GREEN
FALL COLOR: YELLOW
FLOWER: 1" DARK ROSE-PINK, LEGUME
SEASON: MAY TO EARLY JUNE
FRUIT: BLACK POD, SOMEWHAT MESSY
BARK/STEM: REDDISH-BROWN, THORNS



Robinia pseudoacacia 'Purple Robe'

**PRAIRIE
ROSE**



Rosa setigera

LANDSCAPE EVALUATION

PRAIRIE ROSE DISPLAYS GREAT LANDSCAPE POTENTIAL ON UPLAND DIFFICULT SITES AS WELL AS MOIST SOIL AREAS IN MOST OF OKLAHOMA, BUT SHOULD NOT BE USED IN SMALL AREAS WITH RICH SOIL IN THESE SITUATIONS IT QUICKLY OUTGROWS THE SITE. USEFUL FOR EROSION CONTROL, LARGE RESIDENTIAL, HILLSIDES, NATURALIZING, BACKGROUND PLANTINGS, HIGHWAYS, OPEN AREAS & PARKS.

KEY ADVANTAGES

- *EXTREMELY FAST GROWTH POTENTIAL; GOOD FOR IMMEDIATE BUT TEMPORARY RESULTS-TOLERANT OF HEAVY PRUNING
- *ATTRACTIVE PINK FLOWERS
- *INTERESTING ZIG-ZAG TWIG GROWTH HABIT AND THORNLESS BRANCHES
- *EASY TO TRANSPLANT AND PROPAGATE

KEY DISADVANTAGES

- *LIMITED LANDSCAPE UTILIZATION.
- *UNCOMMON IN THE NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: VERY LARGE DECIDUOUS SHRUB
MATURE HT X WT: 6-15' x 10-30'
GROWTH RATE: VERY FAST; 4'-15'/ YR
TEXTURE/FORM: MEDIUM, IRREGULAR
LONGEVITY: 10-20 YEARS
INVASIVENESS: NO
POISONOUS: NO

HABITAT & CULTURE

HABITAT: GRASSLANDS, SANDY RIVER BANKS
SOIL: SANDY OR LOAMY
DRAINAGE: POOR TO WELL
pH: 6.0-8.5
EXPOSURE: FULL SUN
MOISTURE: AVERAGE TO VERY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 6-9
DISEASE: MOD; LEAF SPOT, P. MILDEW
INSECT: MODERATE, NUMEROUS
WIND/ICE: RESISTANT; MOD. STRONG WOOD
DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: ALTERNATE, PINNATELY COMPOUND
SPRING/SUMMER COLOR: MED/DARK GREEN
FALL COLOR: MULTI-COLORED
FLOWER: 1" DARK TO LIGHT PINK, CLUSTERS
SEASON: MAY TO EARLY JUNE
FRUIT: 3/8" ELLIPTIC RED/ORANGE BERRY
BARK/STEM: REDDISH-BROWN, THORNLESS



**WESTERN
SOAPBERRY**



Sapindus drummondii

LANDSCAPE EVALUATION

IT IS UNFORTUNATE THAT WESTERN SOAPBERRY IS UNDER-USED CONSIDERING THAT IS ONE OF OUR MOST HIGHLY RATED NATIVE TREES. IT FORMS A SIMILAR BROAD OVAL APPEARANCE TO THE POPULAR GOLDENRAIN TREE AND LANDSCAPE USE SHOULD BE COMPARABLE; RESIDENTIAL SITES PARKS, URBAN PLAZAS, STREETSCAPES, COMMERCIAL, & MORE

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES
- *EXTREME ENVIRONMENTAL TOUGHNESS
- *VERY STRONG DENSE WOOD
- *VERSATILE; SPECIMEN OR GROUPING
- *TOLERATES DRY, SANDY, INFERTILE SOIL
- *ATTRACTIVE YELLOW FRUITS PERSIST THROUGHOUT WINTER ADDING COLOR
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *FRUITS CAN BE MESSY TO CLEAN UP
- *SOMEWHAT RARE IN NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
MATURE HT X WT: 25-40' x 30-45'
GROWTH RATE: MEDIUM; 12"-24"/YEAR.
TEXTURE/Form: MEDIUM, GLOBULAR
LONGEVITY: 100-250 YEARS
INVASIVENESS: NO, BUT SEEDS READILY
POISONOUS: YES, FRUITS MILDLY TOXIC

HABITAT & CULTURE

HABITAT: DRY UPLAND HILLSIDES, PRAIRIE
SOIL: ANY; CLAY, SAND, SILT, LOAM
DRAINAGE: AVERAGE TO WELL
pH: 5.0-8.0

EXPOSURE: MODERATE SUN TO FULL SUN
MOISTURE: AVERAGE TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONES 5b-10
DISEASE: VERY RESISTANT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT; STRONG WOOD
DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: PINNATELY COMPOUND, ALT.
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: DEEP GOLDEN/YELLOW
FLOWER: WHITISH YELLOW PYRAMIDAL SPIKE
SEASON: MAY-JUNE
FRUIT: NO FRUIT ON CULTIVAR
BARK/STEM: GREY/ORANGE-BEIGE, FURROWED





**SASSAFRAS
TREE**

Sassafras albidum

LANDSCAPE EVALUATION

BECAUSE IT IS A FIRST SUCCESSION TREE IN THE ECOLOGY, IT MAKES A GREAT TREE FOR DISTURBED AREAS SUCH AS REFORESTATION PLOTS, STRIP MINE AREAS, HIGHWAY CUTS AND FILLS, HILLSIDES, REFORESTATION PLOTS, SHELTER BELT PLANTINGS, WIND BREAKS, AND EROSION CONTROL. SASSAFRAS SHOULD BE USED MORE IN THE EASTERN HALF OF THE STATE WITH LOW PH SOILS WHERE ITS TENDENCY TO SPREAD FROM ROOT SUCKERS AND FORM

COLONIES WOULD NOT BE A PROBLEM.

KEY ADVANTAGES

- *UNRIVALED RED-ORANGE FALL COLOR
- *INTERESTING LEAVES, FRUIT, & FLOWER
- *DEVELOPS INTO A NICE SHADE TREE

KEY DISADVANTAGES

- *WEAK WOODED; TENDENCY TO BREAK
- *LIMITED LANDSCAPE UTILIZATION
- *WILL SUFFER FROM IRON CHLOROSIS

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
MATURE HT X WT: 35-50' x 20-30'
GROWTH RATE: MEDIUM; 12"-24"/ YEAR
TEXTURE/Form: MEDIUM, IRREGULAR
LONGEVITY: 50-75 YEARS
INVASIVENESS: YES, RANGE LANDS
POISONOUS: NO, EDIBLE FRUITS

HABITAT & CULTURE

HABITAT: FORESTS, DISTURBED AREAS

SOIL: SANDY LOAMS TO HEAVY CLAYS

DRAINAGE: AVERAGE TO WELL

pH: 5.5-6.5

EXPOSURE: AVERAGE TO FULL SUN

MOISTURE: MOIST TO MODERATELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 4-9

DISEASE: VERY RESISTANT

INSECT: VERY RESISTANT

WIND/ICE: SUSCEPTIBLE, WEAK WOOD

DROUGHT/HEAT: MODERATE

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, 3 DISTINCT LOBES

SPRING/SUMMER COLOR: YELLOWISH GREEN

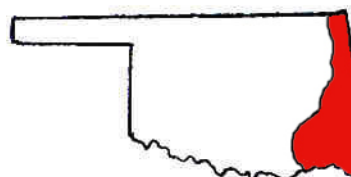
FALL COLOR: RED, ORANGE, YELLOW, PURPLE.

FLOWER: 1-2", ATTRACTIVE, YELLOW

SEASON: LATE MARCH- EARLY APRIL

FRUIT: ½" BLUE BERRY, RED STEM

BARK/STEM: DARK RED/BROWN, FURROWED





**GREEN
BRIAR**

Smilax rotundifolia

LANDSCAPE EVALUATION

GREEN BRIAR DISPLAYS GREAT LANDSCAPE POTENTIAL FOR MOIST OR DRY SOILS IN MOST OF OKLAHOMA, BUT SHOULDN'T BE USED IN SMALL OR MOIST AREAS BECAUSE ITS TUBEROUS ROOT SYSTEM WILL SEND UP SHOOTS A GREAT DISTANCE AWAY FROM THE PARENT PLANT. THIS VINE CAN BE GROWN IN A VARIETY OF FORMS; MEDIUM CLIMBING VINE, SPRAWLING SHRUB-LIKE THICKETS, OR TALL GROUND COVER (IF BRUSH-HOGGED YEARLY). USE FOR: IMPASSABLE LIVING BARRIERS, LONG FENCES, EROSION CONTROL, & SCREENING JUNK PILES

KEY ADVANTAGES

*VERY ATTRACTIVE DARK GREEN HEART-SHAPED LEAVES WITH LIGHT GREEN VARIEGATED PATCHES; EVERGREEN

KEY DISADVANTAGES

*LIMITED LANDSCAPE UTILIZATION.
*UNDESIRABLE THORNS

DESIGN CONSIDERATIONS

CLASS: MEDIUM EVERGREEN VINE
MATURE HT X WT: 5-25' x 10-20'
GROWTH RATE: MEDIUM; 1'-4'/ YR.
TEXTURE/FORM: COARSE , VARIABLE
LONGEVITY: 15-30 YEARS
INVASIVENESS: YES, SPREADING ROOTS
POISONOUS: NO, EDIBLE SHOOTS

HABITAT & CULTURE

HABITAT: FOREST UNDERSTORY, VALLEYS
SOIL: COARSE TO MOD. FINE LOAMS
DRAINAGE: POOR TO WELL
pH: 5.0-8.5
EXPOSURE: FULL SHADE TO MODERATE SUN
MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: 5-9
DISEASE: VERY RESISTANT; SOME LEAF SPOT
INSECT: VERY RESISTANT
WIND/ICE: VERY RESISTANT
DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, CORDATE, GLOSSY
SPRING/SUMMER COLOR: DARK GREEN
FALL COLOR: GREENISH PURPLE
FLOWER: INSIGNIFICANT GREENISH YELLOW
SEASON: EARLY MAY - JUNE
FRUIT: ¼" BLUISH BLACK BERRIES, CLUSTERS
BARK/STEM: GREEN, THORNY, TERMINAL GIRTH





INDIAN CURRANT,
CORAL BERRY

Symphoricarpos orbiculatus

LANDSCAPE EVALUATION

INDIAN CURRANT FORMS A CONSISTENT 2-3' HIGH GROUNDCOVER/SHRUB THAT IS MOST ATTRACTIVE WHEN TOP GROWTH IS CUT TO THE GROUND EVERY OTHER YEAR FOR REJUVENATION. IT FORMS A NETWORK OF SHALLOW, LONG LIVING ROOTS THAT PERPETUATE COLONY WHEN TOP GROWTH DIES. USEFUL FOR RESIDENTIAL, COMMERCIAL, HILLSIDES, MASS PLANTINGS, HIGHWAYS, NATURALIZING AND WOODED AREAS.

KEY ADVANTAGES

- *VALUABLE GROUNDCOVER FOR DRY, SHADED, SLOPING AREAS WHERE FEW OTHER SUITABLE PLANTS WILL GROW.
- *MAGENTA, PERSISTENT FRUIT IN WINTER
- *HIGH WILDLIFE VALUE; NATURALIZING
- *INVASIVE, BUT EASY TO ERADICATE.

KEY DISADVANTAGES

- *LACK OF OUTSTANDING FEATURES.
- *DIFFICULT TO TRANSPLANT

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS SHRUB
 MATURE HT X WT: 2-5' x 4-8'
 GROWTH RATE: MEDIUM; 14-28"/ YEAR
 TEXTURE/FORM: FINE, SPREADING
 LONGEVITY: 5-10 YRS, ROOTS LONGER
 INVASIVENESS: YES, RANGE LANDS
 POISONOUS: NO, EDIBLE FLOWERS

HABITAT & CULTURE

HABITAT: FORESTS, GRASSLANDS & HILLSIDES
 SOIL: SANDY, CLAY, OR LOAMY
 DRAINAGE: MOD. POOR TO EXCESSIVELY WELL
 pH: 5.5-8.5
 EXPOSURE: FULL SHADE TO FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 2b-8
 DISEASE: MODERATE; POWDERY MILDEW
 INSECT: RESISTANT, SOME APHIDS, WHITEFLY
 WIND/ICE: VERY RESISTANT; LOW GROWTH
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, OPPOSITE, DULL
 SPRING/SUMMER COLOR: LIGHT BLUISH-GREEN
 FALL COLOR: YELLOW, NOT PERSISTENT
 FLOWER: INSIGNIFICANT, GREEN CLUSTERS
 SEASON: LATE JUNE- LATE JULY
 FRUIT: 1/8" MAGENTA BERRY- CLUSTERS
 BARK/STEM: EXFOLIATING, SMOOTH, BROWN





CEDAR
ELM

Ulmus crassifolia

LANDSCAPE EVALUATION

CEDAR ELM IS AN INTERESTING LANDSCAPE TREE USED FREQUENTLY IN TEXAS AS A STREET TREE. IT SHOULD BE USED MORE OFTEN IN THE SOUTH HALF OF OKLAHOMA WHERE IT IS VERY WELL ADAPTED TO DROUGHT AND HEAVY SOILS. USEFUL FOR STREETSCAPES, RESIDENTIAL SITES, PARKS, GOLF COURSES, NATURALIZING, AND URBAN

KEY ADVANTAGES

- *VERY TOLERANT OF CITY CONDITIONS
- *DEVELOPS NICE PICTURESQUE SHAPE SIMILAR TO AMERICAN ELM WITH AGE
- *DROUGHT/HEAT TOLERANT
- *WITHSTANDS HEAVY CLAYS
- *ATTRACTIVE WINGS ON YOUNG TWIGS

KEY DISADVANTAGES

- *SUSCEPTIBLE TO DUTCH ELM DISEASE
- *SUSCEPTIBLE TO ELM LEAF BEETLE
- *MAY FREEZE BACK IN NORTH OF NATIVE RANGE DURING HARSH WINTERS

DESIGN CONSIDERATIONS

CLASS: MEDIUM DECIDUOUS TREE
 MATURE HT X WT: 40-60' x 40-60'
 GROWTH RATE: FAST; 24"-36"/YEAR
 TEXTURE/FORM: MEDIUM, GLOBULAR
 LONGEVITY: 75-150 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

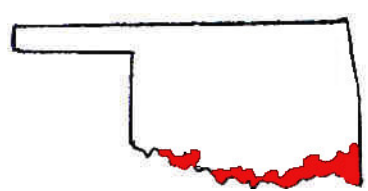
HABITAT: ALLUVIAL PLAINS, FORESTS
 SOIL: CLAY, SAND, SILT, LOAM
 DRAINAGE: AVERAGE TO WELL
 pH: 4.5-8.0
 EXPOSURE: MODERATE SHADE TO FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 7-9
 DISEASE: MODERATE; DUTCH ELM DISEASE
 INSECT: MODERATE; ELM LEAF BEETLE
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, ELLIPTIC, THICK, ALTERNATE
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: YELLOW
 FLOWER: INSIGNIFICANT, CLUSTERS
 SEASON: SEPTEMBER- OCTOBER
 FRUIT: INSIGNIFICANT, SAMARAS
 BARK/STEM: BROWN CORKY RIDGES





**RUSTY BLACKHAW
VIBURNUM**

Viburnum rufidulum

LANDSCAPE EVALUATION

EXCEPTIONAL ORNAMENTAL QUALITIES AND "TAME" GROWTH HABIT MAKE THIS NATIVE PLANT WORTHY OF MORE WIDE-SPREAD USE. BECAUSE IT'S ABLE TO ADAPT TO MANY LANDSCAPE SITUATIONS AND MAINTENANCE PRACTICES, IT IS WORTHY OF CONSIDERATION FOR THE FOLLOWING USES: URBAN PLAZAS, COMMERCIAL SITES, RESIDENTIAL COURTYARDS, OPEN AREAS, WOODED AREAS, AND PARKS.

KEY ADVANTAGES

- *HIGH ORNAMENTAL QUALITIES; FRUIT, FLOWER, & SUMMER AND FALL COLOR
- *GREAT SPECIMEN/ACCENT PLANT
- *COMPACT, NEAT GROWTH HABIT.
- *GROWS IN FULL SHADE OR FULL SUN
- *NO PROBLEMS WITH INSECTS /DISEASE

KEY DISADVANTAGES

- *EXPENSIVE IN THE NURSERY TRADE
- *NOT SUITABLE FOR DROUGHTY SITES
- *UNCOMMON IN THE NURSERY TRADE

DESIGN CONSIDERATIONS

CLASS: SMALL DECIDUOUS TREE
 MATURE HT X WT: 15-30' X 15-25'
 GROWTH RATE: SLOW; 6"/YEAR
 TEXTURE/FORM: MEDIUM, OBOVOID
 LONGEVITY: 100-175 YEARS
 INVASIVENESS: NO
 POISONOUS:NO,SWEET EDIBLE FRUIT

HABITAT & CULTURE

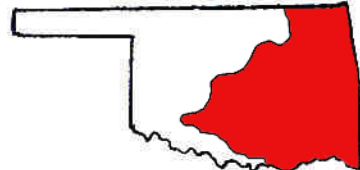
HABITAT: UPLAND FOREST & VALLEY, PLAINS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 PH: 4.5-6.0
 EXPOSURE: MODERATE SHADE TO FULL SUN
 MOISTURE: MOIST TO DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: VERY RESISTANT
 INSECT: VERY RESISTANT
 WIND/ICE: VERY RESISTANT; STRONG WOOD
 DROUGHT/HEAT: VERY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: SIMPLE, GLOSSY, 7-11-LOBED, ALT.
 SPRING/SUMMER COLOR: DARK GREEN
 FALL COLOR: RED/ORANGE ,YELLOW
 FLOWER: WHITE, FLATTENED CLUSTERS
 SEASON: MARCH- APRIL
 FRUIT: 1/2" BLUISH PURPLE DRUPES
 BARK/STEM: GREY, ROUGH, FURROWED





**RIVERBANK
GRAPE**

Vitis riparia

LANDSCAPE EVALUATION

RIVER BANK GRAPE FORMS AN ATTRACTIVE TALL GROWING VINE WITH LIMITED LANDSCAPE USE IN OKLAHOMA. THE SIGHT OF A THICK VINE SEEMINGLY FLOATING IN THE AIR ALL THE WAY UP TO THE TOP OF A LARGE TREE IS TRULY MAGNIFICENT. BUT SHOULD NOT BE USED IN SMALL AREAS BECAUSE IT QUICKLY OUTGROWS THE SITE. USE FOR: LONG FENCES, NATURALIZING, WOODED AREAS, AND LARGE SCALE RESIDENTIAL.

KEY ADVANTAGES

- *EXTREMELY FAST GROWTH POTENTIAL
- *EXFOLIATING NARROW STRIPS OF BARK ARE VERY ATTRACTIVE ON OLDER VINES
- *LONG LIVED, NO MAJOR PROBLEMS
- *SHOWY, EDIBLE, PURPLE GRAPES IN FALL

KEY DISADVANTAGES

- *VERY LIMITED LANDSCAPE UTILIZATION.
- *IF GROWN ON A FENCE, REQUIRES MONTHLY PRUNING AND TRAINING

DESIGN CONSIDERATIONS

CLASS:VERY LARGE DECIDUOUS VINE
 MATURE HT X WT: 20-55' x 30-70'
 GROWTH RATE: VERY FAST; 15'-30'/ YR
 TEXTURE/FORM: MEDIUM, VARIABLE
 LONGEVITY: 100-200 YEARS
 INVASIVENESS: YES, SEEDLINGS
 POISONOUS:NO, EDIBLE GRAPES

HABITAT & CULTURE

HABITAT: FORESTS, RIVERBANKS, PRAIRIE
 SOIL: SILT LOAMS, CLAYS, SANDS, ROCKY
 DRAINAGE:VERY POOR TO EXCESSIVELY WELL
 pH: 6.1-7.5
 EXPOSURE: MOD. SHADE TO FULL SUN
 MOISTURE: VERY MOIST TO MOD. DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 2-7
 DISEASE: VERY RESISTANT
 INSECT: RESISTANT; SOME CHEWING INSECTS
 WIND/ICE: VERY RESISTANT, STRONG WOOD
 DROUGHT/HEAT: RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: LARGE, SIMPLE, CORDATE, ALT.
 SPRING/SUMMER COLOR: BRIGHT GREEN
 FALL COLOR: YELLOW
 FLOWER: INSIGNIFICANT YELLOW CLUSTERS
 SEASON: MAY- JUNE
 FRUIT: 1/3" DARK PURPLE BERRY
 BARK/STEM: DARK BROWN, EXFOLIATING





**SOAP TREE
YUCCA**

Yucca elata

LANDSCAPE EVALUATION

SOAP TREE YUCCA FORMS AN ATTRACTIVE MULTI-BRANCHING SMALL TREE WITH GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN WESTERN TO CENTRAL OKLAHOMA. SHARP LEAVES ARE VERY HAZARDOUS; SHOULD NOT BE USED NEAR CHILDREN. IT TOLERATES HIGHER RAIN FALL IF IN WELL DRAINED SITE. USEFUL FOR SMALL TO LARGE RESIDENTIAL, COMMERCIAL, URBAN AREAS, STREETSCAPES, HIGHWAYS, OPEN AREAS, HILLSIDES, DESERT GARDENS

KEY ADVANTAGES

- *ATTRACTIVE, FLOWERS AND FRUIT
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS.
- *MAY CONTRACT DISEASES IN THE EAST
- *RARE IN NURSERY TRADE
- *SHARP LEAVES, CAN POKE EYES OUT

DESIGN CONSIDERATIONS

CLASS: SMALL EVERGREEN TREE
 MATURE HT X WT: 7-15' X 2-6'
 GROWTH RATE: VERY SLOW; 4"/ YEAR
 TEXTURE/Form: COURSE, NARROW
 LONGEVITY: 100-300 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

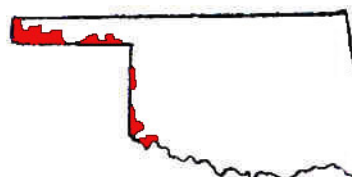
HABITAT: DRY UPLAND HILLSIDES, PLAINS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 5.0-8.5
 EXPOSURE: FULL SUN
 MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: EXTREMELY RESISTANT
 INSECT: RESISTANT , NONE SERIOUS
 WIND/ICE: EXTREMELY RESISTANT
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: 12" SHARP NARROW STIFF LEAVES
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: MEDIUM GREEN
 FLOWER: 2'-3' TALL WHITE SPIKE, VERY SHOWY
 SEASON: JUNE
 FRUIT: DRY CAPSULE ON SPIKE, PERSISTENT
 BARK/STEM: GREY, SPINY, DEAD LEAVES





SOAPWEED
YUCCA

Yucca glauca

LANDSCAPE EVALUATION

SOAP TREE YUCCA FORMS AN ATTRACTIVE MULTI-BRANCHING SMALL SHRUB WITH GREAT LANDSCAPE POTENTIAL ON DIFFICULT SITES IN WESTERN TO CENTRAL OKLAHOMA. SHARP LEAVES ARE VERY HAZARDOUS; SHOULD NOT BE USED NEAR CHILDREN. IT TOLERATES HIGHER RAIN FALL IF IN WELL DRAINED SITE. USEFUL FOR SMALL TO LARGE RESIDENTIAL, COMMERCIAL, URBAN AREAS, STREETSCAPES, HIGHWAYS, OPEN AREAS, HILLSIDES, DESERT GARDENS

KEY ADVANTAGES

- *ATTRACTIVE, FLOWERS AND FRUIT
- *THRIVES IN DRY, ROCKY, INFERTILE SOIL
- *VERSATILE; SPECIMEN OR GROUPING

KEY DISADVANTAGES

- *WILL LANGUISH IN WET SOILS.
- *MAY CONTRACT DISEASES IN THE EAST
- *RARE IN NURSERY TRADE
- *SHARP LEAVES, CAN POKE EYES OUT

DESIGN CONSIDERATIONS

CLASS: SMALL EVERGREEN TREE
 MATURE HT X WT: 2-3' X 2-3'
 GROWTH RATE: VERY SLOW; 4"/ YEAR
 TEXTURE/FORM: COURSE, GLOBULAR
 LONGEVITY: 100-300 YEARS
 INVASIVENESS: NO
 POISONOUS: NO

HABITAT & CULTURE

HABITAT: DRY UPLAND HILLSIDES, PLAINS
 SOIL: SANDY, ROCKY, OR LOAMY
 DRAINAGE: WELL TO EXCESSIVELY WELL
 pH: 5.0-8.5
 EXPOSURE: FULL SUN
 MOISTURE: DRY TO EXTREMELY DRY

ENVIRONMENTAL TOLERANCE

HARDINESS: ZONE 5-9
 DISEASE: EXTREMELY RESISTANT
 INSECT: RESISTANT, NONE SERIOUS
 WIND/ICE: EXTREMELY RESISTANT
 DROUGHT/HEAT: EXTREMELY RESISTANT

ORNAMENTAL QUALITIES

FOLIAGE: 8" SHARP NARROW STIFF LEAVES
 SPRING/SUMMER COLOR: MEDIUM GREEN
 FALL COLOR: MEDIUM GREEN
 FLOWER: 1'-2' TALL WHITE SPIKE, VERY SHOWY
 SEASON: JUNE
 FRUIT: DRY CAPSULE ON SPIKE, PERSISTENT
 BARK/STEM: GREY, SPINY, DEAD LEAVES



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