New Mexico Forestry Division Spring 2025 Seedling List

SPECIES	HEIGHT	GROWTH RATE	COLD HARDINESS	WATER NEEDS	ALKALINITY TOLERANCE	ELEVATION	Size
AFGHANISTAN PINE	60 feet	Fast	Poor	Moderate	Moderate	3000- 5500	Small
Pinus eldarica A medium-sized Plantings are best in southern N has a crown width of between 3 mites. Suggested Uses: windbre	ew Mexico due 0 and 40 feet. T	to it not being cold he optimum soil pH	hardy enough for the r	orthern half of the	e state. Hardiness zone 7-10	below 5500 feet in	
APACHE PLUME4 - 6 feetFastGood-ExcellentLowModerate-High5000-8000SmallFallugia paradoxaThis native shrub occurs along the sides of dry washes and hillsides. The rose-like white flowers are showy in the early summer with feathery clusters of plume-like fruit in the fall and winter. Provides nesting sites and material for birds. It has high calcium carbonate tolerance and low salinity tolerance. The optimum soil pH is 7.0 to 8.0. It is shade intolerant. Hardiness zones are 3 through 10 below 8000 feet in elevation. The width is between 4 and 6 feet. Pest Problems: none serious. Suggested Uses: windbreaks, erosion control, and wildlife plantings.							
<u>APRICOT</u> Prunus armeniaca Small fast- golden orange in the fall. It has hardiness zone 3 and can be gro reddish-brown, and the root syst problems. Suggested Uses: win	pink blooms Ma wn in USDA ha tem is medium i	arch to April. It is se ardiness zones 3 thro in depth and spread.	elf-pollinating but is mo ough 8 below 7000 fee	ore likely to produ t in elevation. Frui	ce fruit with two or more pla t is golf-ball size. Crown wi	ants. Is cold hardy dth is 12 to 18 feet	to USDA , bark is
ARIZONA ASH	25-50 feet	Moderate	Fair	Moderate	Moderate	3000- 7000	Small
Fraxinus velutina This native t NM and has moderate wildlife w The crown width averages 25 fe erosion control, and wildlife pla	value for birds. I et. It grows in s	Has no calcium carb	onate tolerance and lo	w salinity toleranc	e. It is shade intolerant. Har	diness zones are 7	through 10.
ARIZONA CYPRESS	40-60 feet	Fast	Fair	Low	Moderate-High	3000- 8000	Small
Cupressus arizonica This nativ when young has suggested to so salinity tolerance. The optimum cedar borer, cypress bark beetle. ARIZONA ROSEWOOD	me to be used f soil pH is 6.1 to	or Christmas trees. 1 o 7.9. It is shade tole	It is an excellent choice erant. Hardiness zones	e for windbreak pl are 6 through 9. C	antings. Has high calcium ca rown width averages 20 fee	arbonate tolerance	and low .
Vauquelinia californica A nativ produces clusters of white flowed New Mexico. Attracts bees, butt Problems: None serious. Sugge	ve to SW New Mers in June. It is terflies, and bird	Mexico this rare eve shade intolerant and ls. Hardiness zones	rgreen species has an u l cold hardy to 15 degr 8 through 10. It has a v	pright rigid shape rees Fahrenheit and	and is found on dry, rocky l d very heat tolerant, so it is s	hillsides and canyor suited for the south	ns. It
ASPEN	60-80 feet	Fast	Excellent	Moderate-High	High	6500- 10000	Small
Populus tremuloides A native tree widely distributed above 7500 feet as a pioneer species after fire or other disturbances. Its bright fall colors light up the mountains where it is plentiful. Elk and deer browse the foliage when within reach. Fall colors are from bright yellow to gold and sometimes orange/red. It has high calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 4.3 to 9.0. It is shade intolerant. Hardiness zones are 2 through 8 above 6500 feet in elevation. The average crown width is 20 to 30 feet. Pest Problems: poplar borer, leaf miner, cytospora cankers, and tent caterpillar. Suggested Uses: wildlife plantings, reforestation, and reclamation above 6500 feet.							
AUSTRIAN PINE	-	Moderate-Fast	Good	Moderate	Moderate	3500-7500	Small
Pinus nigra This fast-growing pine is native to Europe, but has proved to establish and grow well in the Southwest. It tolerates a variety of soils. It is an excellent choice for a windbreak planting. Many types of birds find cover in its branches, and some use the seed for food. It has high calcium carbonate tolerance and high salinity tolerance. Optimum soil pH is 5.5 to 7.5. It is shade intolerant. Hardiness zones are 4 through 8 below 7500 feet in elevation. The average width at maturity is 25 feet. Pest Problems: Ips bark beetle, twig beetles, and pine tip moth. Suggested Uses: wildlife plantings, windbreaks, and sound screens.							
BLACK WILLOW	up to 100 fee		Good-Excellent	High	Moderate	1500- 6000	Small
Salix nigra Black willow resembles Goodding's Black willow and the two species are sometimes considered to be varieties of the same species. It occurs along streambanks and in floodplain areas. It has massive trunks that usually lean and are often divided. The crown is broad and open. Birds eat the buds and flowering catkins, and deer eat the twigs and leaves. It is also commonly used as nesting habitat by small bird species. It has low calcium carbonate tolerance and medium salinity tolerance. The optimum soil pH is 4.8 to 8.0. It is shade intolerant. Hardiness zones are 4a through 9a below 6000 feet in elevation. Pest Problems: None serious. Suggested Uses: erosion control of streambanks, wildlife plantings							
BLUE SPRUCE	up to 80 feet	Slow	Excellent	High	Low-Moderate	5000- 10000	Small
Picea pungens A native conifer the foliage is from green to blue tolerance and no salinity toleran is between 20 to 30 feet. Pest P BLUESTEM WILLOW	and it is often to ce. The optimum	used as a Christmas m soil pH is 5.5 to 7 las-fir tussock moth	tree in New Mexico. I .8. It has intermediate	t also has value to shade tolerance. H	the wood products industry. lardiness zones are 2 through	It has high calciun h 7 above 5000 fee	n carbonate t. The width
Salix irrorata This native shrub purplish-blue color and white flue 15 feet. Pest Problems: None s	owers. It has no	salinity tolerance. I	Hardiness zones are 2 t	hrough 8 above 52	200 feet. Optimum soil pH is		
BUR OAK70–80 feetSlow-ModerateExcellentModerateModerateModerate0-7500BareQuercus macrocarpaThis majestic oak tree is very adaptable to various soils and tolerates alkaline soils as well. It produces a large burry acom which is edible. The fruit matures in one year. It is drought tolerant and cold hardy; Has medium calcium carbonate tolerance and no salinity tolerance. It has intermediate shade tolerance. The average crown width is 40 feet. Optimum soil pH is 4.5 to 7.5. Hardiness zones are 4 through 8 at elevations under 7500 feet. Pest Problems: minor problems. Suggested Uses: windbreaks, wildlife plantings, and energy conservation plantings.ModerateModerate ModerateModerate Moderate0- 7500Bare							
<u>CHOKECHERRY</u>	6-20 feet	Moderate-Fast	Excellent	Moderate-High	Low	5500- 9500	Bare, Small
Prunus virginiana A native shrub or small tree that forms dense barriers. It prefers deep and sandy loam soils. It is an important species for wildlife as bear, deer, and other animals use it for food. It is a species that minimizes stream bank erosion. Its fruit is widely used in jellies and jams. Chokecherry is self-pollinating. It has medium calcium carbonate and salinity tolerance. The optimum soil pH is 5.2 to 8.4. It has intermediate shade tolerance. Hardiness zones are 2 through 7 at elevations between 5500 and 9500 feet. The crown width is between 10 and 20 feet. Pest Problems: borers, pear slugs, and tent caterpillar. Suggested Uses: windbreaks, riparian restoration, and wildlife plantings.							
COYOTE WILLOW	10 feet	Fast	Good	High	High	3500- 7500	Small
Salix exigua This is one of the t species to riparian areas. It is ad and early fall. It has low saline t major pests. Suggested Uses: R	apted to sandy solerance, intern	soils in stream, river nediate shade intole	; and shoreline sites. It rance and prefers a pH	is heavily browse between 6 and 8.5	d by deer year-round. Cattle	will browse it in the	ne summer
DESERT WILLOW	25 feet	Fast	Fair-Good	Low	High	3000- 6000	Small
Chilopsis linearis A native shru plant is classified as a phreatoph medium calcium carbonate toler has intermediate shade tolerance wildlife plantings.	yte, and is an in ance and low s	ndicator that water is alinity tolerance. Th	s not too far below the e optimum soil pH is 6	surface during par 6.6 to 10.0. Hardin	rt of the year. The wood is o ess zones are 7 through 11 a	ften used for fence t elevations below	posts. It has 6000 feet. It

80+ feet Moderate

High

Pseudotsuga menziesii A large, native tree with a dense, conical crown. The wood is one of the strongest of the soft woods. It has significant value to the wood products industry and is used extensively as a Christmas tree. This species can live for hundreds of years. It has moderate calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.0 to 7.5. It has intermediate shade tolerance. Hardiness zones are 4 through 6 above 4500 feet in elevation. The width is between 20 and 30 feet. Pest Problems: Douglas-fir tussock moth, spruce budworm, and wooly aphids. Suggested Uses: reforestation (important timber species in western US), wildlife plantings, and Christmas trees. ENGELMANN SPRUCE up to 120 feet Slow Excellent Moderate Moderate 5000-11500 Small Picea engelmannii This native spruce is long-lived, and strongly resembles blue spruce. It grows on drier sites than blue spruce and has moderate watering needs. It is conical in form and has a narrow spire-like crown. Small birds and mammals use the seed as a food source. It has high calcium carbonate tolerance and no salinity tolerance. Optimum soil pH is 6.0 to 8.0. It is shade tolerant. Hardiness zones are 1 through 8 above 5000 feet. The crown width averages 30 feet. Pest Problems: western spruce budworm and spruce beetle. Suggested Uses: reforestation, Christmas trees, and windbreaks. FALSE INDIGO BUSH 6-10 feet Good-Excellent Moderate Moderate Moderate 3000-7000 Small Amorpha fruticosa False indigo bush is a native shrub that grows in dense stands along streambanks, irrigation ditches, irrigated pastures, and the edges of woodlands. It has purple spire-like flowers that bloom from May to July. The nectar from the flowers attracts birds and butterflies. The leaves are pinnately compound with 11 to 15 leaflets per stem. The average width of the plant is 5 feet. It has medium calcium carbonate tolerance and low salinity tolerance. The optimum soil pH is 5.0 to 8.5. Hardiness zones are 4 to 9 below 7000 feet in elevation. It is shade intolerant. Pest Problems: insect gall. Suggested Uses: erosion control and wildlife plantings. FIRECRACKER PENSTEMON up to 3 feet Slow Excellent Low Moderate 3000-11000 Small Penstemon eatonii Native plant that has bright red flowers that bloom May through August, is adaptable to various soil types. It provides forage for deer, antelope and birds. It has intermediate shade tolerance, has high calcium carbonate tolerance, and no salinity tolerance. Hardiness zones are 4 through 9. It is a pollinator for native bees. Pest Problems: none serious Suggested Uses: erosion control, reclamation, wildlife forage FOUR-WING SALTBUSH 4-6 feet Fast Good Low High 3000-8000 Small Atriplex canescens This native shrub grows across a wide variety of soils including saline soils and is highly prized plant by the Navajos as forage for their cattle, sheep, and goats; especially in early spring when other forage is scarce. It is also an excellent wildlife species. It has high calcium carbonate tolerance and high salinity tolerance. Optimum soil pH is 6.5 to 9.5. It is shade intolerant. Hardiness zones are 4 through 9 up to 8000 feet in elevation. The width is between 4 and 8 feet. Pest Problems: no major pests. Suggested Uses: windbreaks, wildlife plantings, erosion control, and reclamation of severely disturbed sites. FRINGED SAGE 2 feet Fast Excellent Low Moderate 5500-8000 Small Artemisia frigida Is native to most counties in New Mexico. It is drought tolerant and browsed by elk, deer, bighorn sheep, and pronghorn. It is also important to small game and nongame animals. It is also as a food plant for butterfly and moth species. It has medium saline tolerance, intermediate shade tolerance, and prefers a pH of 7.0 to 9.0. Hardiness zones are 3 through 10 at elevations between 5500 and 8000 feet. **Pest Problems:** none known **Suggested Uses:** soil stabilization and wildlife habitat GOLDEN CURRANT 4-6 Feet Fast Good Low Low 3000-9000 Small Ribes aureum A native to New Mexico in the spring the golden currant richly deserves its name - golden yellow clusters of long, trumpet-shaped, spicy fragrant flowers, adorn the shrub in abundance. The edible fruit is made into jellies and jams, and delicious pies. Golden currant is self-pollinating. It has high calcium carbonate tolerance and no salinity tolerance. Optimum soil pH is 6.0 to 8.0. Hardiness zones are 5 through 8 at elevations between 3000 and 9000 feet. Its shade tolerance is intermediate. The width is between 3 and 6 feet. Pest Problems: leaf rust fungus, alternate host of White Pine blister rust. Suggested Uses: windbreaks, revegetation, erosion control (in it's native range), and wildlife plantings. 40-60 Feet Slow-Moderate HACKBERRY Good Low-Moderate Moderate 4500-7000 Bare Celtis occidentalis A hardy, drought tolerant tree adapted to the hot, dry climate of New Mexico and thought to be native to northeastern New Mexico. This spreading tree produces fruit that is popular with birds. It also produces sweet nectar that attracts many species of butterflies. This tree can be used in windbreaks and wildlife plantings. It has medium calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 6.0 to 7.8. It is shade tolerant. The crown width is 40 feet. Pest Problems: leaf gall psylids and nipple gall. Suggested Uses: windbreaks and wildlife plantings. 30 - 50 feet Fast 0 - 0Bare HONEY LOCUST Moderate Good Low Gleditsia triacanthos Honey locust is widely cultivated as an ornamental and shade tree. This tree is tolerant of drought, low temperatures and alkaline soils. It is used in windbreaks and erosion control. Pest Problems: Mimosa web worm. Suggested Uses: windbreaks and erosion control. HOPTREE up to 25 feet Slow-Moderate Excellent Low-Moderate Moderate 4000-9000 Small Ptelea trifoliata This native tree also known as wafer ash reaches up to 25 feet with a crown spread of 10 to 15 feet. The leaves are trifoliate and are four to six inches in length and turn yellow in the fall. Their flowers are inconspicuous greenish-white and have an orange blossom-like perfume. Its fruit attracts bird, squirrels and other mammals. Grows on dry, rocky slopes to valley bottoms. It has medium salinity tolerance, medium calcium carbonate tolerance, and intermediate shade tolerance. The optimum soil pH is 4.8 to 7.0. Hardiness zone is 4 through 9. Pest Problems: none serious Suggested Uses: wildlife habitat, windbreaks 50 feet LACEBARK ELM Fast Good-Excellent Low-Moderate Moderate 4500-8000 Small Ulmus parvifolia Lacebark Elm, or true Chinese Elm, should not be confused for the notoriously spreading Siberian Elm. Siberian Elm is often and mistakenly called Chinese Elm. Lacebark Elm is a medium sized tree with a round to oval crown. It is a gentleman as it doesn't spread like the Siberian Elm. It is an excellent drought tolerant species for use in windbreaks. It can grow as much as 3 feet per year. It is adaptable to most soil conditions. It has low calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 4.8 to 7.0. Hardiness zones are 5 through 9 at elevations between 4500 and 8000 feet. It is shade intolerant. The crown width is between 30 and 40 feet. Pest Problems: none serious. Resistant to elm leaf beetle and Dutch elm disease. Suggested Uses: windbreaks and firewood. up to 60 feet Slow Excellent Low Low 7500-12000 Pinus flexilis This native 5-needled pine is very long-lived. It is pyramidal in shape during youth, becoming more flat-topped at maturity. The crown width is between 15 and 30 feet. The pine seeds are an excellent source of food for birds and small mammals. It has medium calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.7 to 6.5. It has intermediate shade tolerance. Hardiness zones are 4 through 7. Pest Problems: bark beetle, twig beetle, dwarf mistletoe and White Pine blister rust. Suggested Uses: windbreaks, Christmas trees, and reforestation. NARROWLEAF Moderate-High Moderate 5000-10000 up to 70 feet Fast Good-Excellent Small COTTONWOOD Populus angustifolia This is a native tree with willow-like leaves, common along streams in the mountains of New Mexico. It represents the principal mountain Cottonwood species. It provides cover for wildlife and is a good browse species. It has high tolerance for calcium carbonate and low tolerance for salinity. The optimum soil pH is 6.0 to 7.5. It is shade intolerant. Hardiness zones are 3 to 8 above 5000 feet. The crown width is between 30 and 40 feet. **Pest Problems:** Leaf rust, fall webworm, poplar borers Suggested Uses: Windbreaks, Wildlife plantings, erosion control and riparian restoration NATIVE PLUM 6-8 feet Moderate Excellent Moderate Low 4500-8000 Bare Prunus americana This is a small native tree adapted to a wide range of soils and requires supplemental watering on dry sites until established. It produces very fragrant clusters of showy white flowers in the spring and produces a sweet edible fruit. The leaves turn an orange-red in the fall. It needs cross-pollination to produce a good fruit crop. It is cold hardy and drought tolerant once established. It is an excellent choice for wildlife plantings. It has high calcium carbonate tolerance and low salinity tolerance. Optimum soil pH is 5.0 to 7.0. It is shade intolerant. Hardiness zones are 3 through 8 at elevations between 4500 and 8000 feet. The crown width is between 10 and 15 feet. Pest Problems: pear slug, aphids, and powdery mildew. Suggested Uses: windbreaks and wildlife plantings. PALMER'S PENSTEMON up to 5 feet Moderate Excellent Low 2600-8200 Small Pestemon palmeri Native to New Mexico. It is a perennial herb to slightly wood subshrub. Has fleshy leaves and has white to pink flowers that are fragrant. It is found in dry washes, grasslands, pinon-juniper and ponderosa pine communities. It is very drought and heat tolerant. It is shade intolerant, pH tolerance is 6.0 to 7.9, saline intolerant and prefers precipitation between 6 and 14 inches per year. Hardiness zones are 4 through 9 at elevations below 8200 feet. Adapted to coarse and medium textured, well-drained soils. Pest Problems: Suggested Uses: wildlife plantings and erosion control PEACHLEAF WILLOW 30 feet + Good-Excellent High 4500-7400 Fast Moderate Small Salix amygdaloides This native tree is found along rivers and streams in rich alluvial soils. It is readily identified by its gleaming leaves and pendulous branchlets, which gives it a weeping appearance. It is an excellent species for streambank stabilization. It has medium calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 6.0 to 8.0. It is shade intolerant. Hardiness zones are 2 through 8 at elevations between 4500 and 7400 feet. The width is up to 40 feet. Pest Problems: None serious Suggested Uses: Riparian restoration, streambank stabilization and wildlife plantings. 70 to 100 feet Moderate PECAN Good High Moderate-High 0-5000 Small Carya illnoinensis Ungrafted, oval crowned deciduous tree, has a spread of 40 to 75 feet. Fruit is an oblong nut. The nuts be used by deer, wild turkeys, various bird species, and various small mammals. It is also used by butterflies. It grows in moist, well-drained soils such as sandy, sandy loam, medium load, clay loam, clay and caliche. These seedlings are not cultivars, so nut quality varies. If you are a commercial grower you will need to find cultivars. Is shade intolerant, has low calcium carbonate tolerance, and has a preferred pH range of 4.5 to 7.5. Is salt intolerant. Grow well in the southern half of New Mexico if soil is kept moist. USDA hardiness zones are 6 to 9, but probably won't produce nuts in the colder zones since it requires consistent warm night temperatures to produce nuts. Pest Problems: none major - aphids, borers, tent caterpillars, webworms Suggested Uses: wildlife habitat, furniture wood <u>PIÑON</u> up to 40 feet Slow Good-Excellent Moderate-High 3500-8500

Low

Small

Pinus edulis The New Mexico state tree is an aromatic pine which grows across a wide variety of soils and does well under cultivation. It is popular for the edible nuts it produces. Under most conditions it is self-pollinating. It has high value for upland game and song birds. It is very drought tolerant, but slow growing. Has low calcium carbonate tolerance and medium salinity tolerance. Hardiness zones are 6 through 8. Optimum soil pH is 6.5 to 8.5. The crown width is between 20 and 30 feet. Pest Problems: Ips bark beetle, piñon needle scale, needle miner, twig beetle, and pitch moth. Suggested Uses: windbreaks, reforestation, and Christmas trees. up to 85 feet Fast PLAINS COTTONWOOD Excellent High Low-Moderate 3500-9000 Small Populus deltoides ssp. monilifera This cottonwood is native to the eastern plains of New Mexico and is found in moist areas and near stream banks. It is also highly drought tolerant. It is appropriate for planting east of the Pecos River. Rio Grande Cottonwood should be planted west of the Pecos River. The crown spread is 50-60 feet and the leaves are wide and triangular in shape, 3-6 inches long. They turn golden yellow in the fall. It has medium tolerance for calcium carbonate and no salinity tolerance. Hardiness zones are 3 through 9 at elevations below 9000 feet. The optimum soil pH is 5.0 to 7.0. It is shade intolerant. The crown width is between 30 and 40 feet. Pest Problems: None serious. Suggested Uses: riparian restoration, stream bank stabilization, and wildlife plantings. up to 80 feet Moderate Excellent Moderate Moderate-High 4500-9000 PONDEROSA PINE Small Pinus ponderosa This is a large, native conifer. It is the primary commercial tree species in New Mexico. It has a pyramidal shape when young and becomes conical with age. Squirrels clip the cones and store them in caches and extract the seeds for winter consumption. The tree grows best on well-drained soils. It has low calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.0 to 9.0. It is shade intolerant. Hardiness zones are 3 through 9 at elevations above 4500 feet. The crown width is between 25 and 30 feet. Pest Problems: bark beetle, twig beetle, sawflies and dwarf mistletoe. Suggested Uses: windbreaks and reforestation. REDOSIER DOGWOOD 6-9 feet Moderate Good High Moderate 5500-9000 Cornus stolonifera Redosier prefers moist sites along streams and around swampy or boggy land. This native species is readily noticed due to its red twigs and white berries in the fall. The flowers grow in clusters and are tiny and white. It has no calcium carbonate tolerance and low salinity tolerance. Optimum soil pH is 4.8 to 7.5. It is shade intolerant. Hardiness zones are 2 through 7 at elevations between 5500 and 9000 feet. The width is between 8 and 10 feet. Pest Problems: No major pests Suggested Uses: Riparian or wetland plantings. **RIO GRANDE** 60+ feet Good High Low-Moderate 2500-7500 Small Fast COTTONWOOD Populus deltoides ssp. Wislizeni One of New Mexico's most beloved trees, this cottonwood grows chiefly along the lower valleys and along slower waters. It is an excellent species for stabilizing streams. Birds also use it for nesting purposes. Beavers use it for dams. The leaves turn a golden yellow just before the leaves fall. It has medium calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.0 to 7.0. It is shade intolerant. Hardiness zones are 3 through 9 at elevations below 7500. The average crown width is 40 feet. Pest Problems: no major pests. Suggested Uses: riparian restoration, stream bank stabilization, and wildlife plantings. Moderate-High ROCKY MOUNTAIN JUNIPER up to 40 feet Moderate Excellent Low 3500-9000 Small Juniperus scopulorum This is a hardy native tree that grows across a wide variety of soils. It is the fastest growing of southwestern junipers and can be found along mountain streams and dry, rocky slopes. The pea size blue-berries are an important source of food for birds and small mammals. It has high calcium carbonate tolerance and low salinity tolerance. Optimum soil pH is 5.0 to 8.5. It is shade intolerant. Hardiness zones are 3 through 9 at elevations between 3500 and 9000 feet. It has a crown width of between 10 and 20 feet. Pest Problems: juniper bark beetle, spider mites, western cedar borer, and juniper mistletoe. Suggested Uses: windbreaks, reforestation, and erosion control. ROCKY MOUNTAIN Excellent 6000-11000 Moderate Small up to 3 feet Low Low PENSTEMON Penstemon strictus Is a native perennial herb with deep blue to purple flowers. It is used for erosion control and forage for deer, antelope and birds. It is shade intolerant, prefers well-drained soils, and blooms May through July. The preferred pH is 6.0-8.0. It has low calcium carbonate tolerance, no salinity tolerance, and has moderate drought tolerance. Hardiness zones are 4 through 9 at elevations 6000 feet and above. Pest Problems: None noted. Suggested Uses: erosion control, wildlife forage RUBBER RABBITBRUSH 4-6 feet Fast Good-Excellent Low Low 3000-7500 Small (CHAM Chrysothamnus nauseosus This is a native shrub which grows well on disturbed sites and in alkaline soils. In the fall Chamisa becomes very conspicuous. Its yellow flower clusters brighten up the roadside and other disturbed areas. The foliage and seeds are eaten by browsing animals and rabbits. It has medium calcium carbonate and salinity tolerance. The optimum soil pH is 5.6 to 8.6. It is shade intolerant. Hardiness zones are 3 through 10 at elevations lower than 7500 feet. The width is between 2 and 4 feet. Pest Problems: Leaf beetle, no other major pests. Suggested Uses: windbreaks, erosion control and reclamation. 4 feet Fast Good-Excellent Low SAND CHERRY Moderate 3000-8000 Small Prunus besseyi Sand Cherry is a small fast growing shrub readily used by song birds. It produces clusters of white flowers in the spring followed by sweet black cherries nearly 3/4" in diameter. Sand cherry requires cross-pollination to produce fruit. It has high calcium carbonate tolerance and low salinity tolerance. The optimum soil pH is 5.3 to 7.5. It is shade intolerant. Hardiness zones are 3 through 8 at elevations between 3000 and 8000 feet. The width is between 3 and 6 feet. **Pest** Problems: aphids. Suggested Uses: wildlife plantings and erosion control. SCOTS PINE (SCOTCH PINE) up to 50 feet Moderate-Fast Good-Excellent Moderate Moderate 3000-7500 Small Pinus sylvestris A native of Europe, the irregular pyramidal crown develops into a broad crown with age. The crown width is between 20 and 35 feet. It is widely planted for Christmas trees in many parts of the U.S. It is considered a good tree for reclamation because it often seeds itself into the site. It has low calcium carbonate tolerance and no salinity tolerance. Hardiness zones are 3 through 8 at elevations lower than 7500 feet. The optimum pH is 5.0 to 7.5. It is shade intolerant. Pest Problems: Ips bark beetle and pine needle scale. Suggested Uses: windbreaks, Christmas trees, and energy conservation plantings. 4-6 feet Excellent Low SKUNKBUSH SUMAC Moderate Moderate-High 4500-8000 Small Rhus trilobata Skunkbush sumac is a deciduous, multi-branched and spreading shrub. It occurs along stream banks and forest openings but is most common and abundant on dry, rocky slopes throughout Arizona and New Mexico at elevations from 3500 to 8000 feet. This shrub is very winter hardy and tolerant of drought and high alkali soils. The fruits are red-orange and the flowers are yellowish and conspicuously in clusters. Besides having brilliant orange-red fall colors it is an important fall and winter food for songbirds and emergency food for game birds. This species is also an important browse species for mule deer. Clusters of small yellow flowers bloom in late May and produce a small red edible fruit. It has low calcium carbonate tolerance and no salinity tolerance. Optimum soil pH is 6.5 to 8.2. It has intermediate shade tolerance. Hardiness zones are 4 through 8 at elevations between 4500 and 8000 feet. The width is between 6 and 8 feet. Pest Problems: no serious pests. Suggested Uses: windbreaks, wildlife plantings, and erosion control. SMOOTH SUMAC 10 feet Moderate Good-Excellent Low Moderate 5000-8000 Small Rhus glabra This native shrub is extremely drought resistant and the leaves turn a bright red in the fall. More than thirty bird species and deer use the fruit as winter food. It serves as good ground cover for small mammals. It has low calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.3 to 7.5. It is shade intolerant. Hardiness zones are 5 through 8 at elevations between 5000 and 8000 feet. The width is between 10 and 15 feet. Pest Problems: None serious. Suggested Uses: reclamation, erosion control and wildlife plantings. 50 ft SOUTHERN LIVE OAK Moderate Fair Small Moderate Moderate 0 - 0Quercus virginiana Southern live oak is native to the southeastern United States from Virginia through Texas. It has been planted for decades in the warmer areas of the southwestern US. The average height and crown width at maturity is at 50 feet. It has intermediate shade tolerance and a pH range of 4.3 to 7.5. Southern live oak can grow in hardiness zones 7-10 and is cold hardy to 5-10 degrees Fahrenheit. It is relatively drought tolerant, but it does require watering. Although it appears to be evergreen, it is deciduous, it drops its old leaves just as new ones emerge. It grows in dry to moist soils, whether gravelly, sandy, loamy or clay, but does best in neutral or slightly acidic clay loams, poor drainage okay. It is saline tolerant and tolerant of compaction. Pest Problems: oak wilt Suggested Uses: wildlife food -acorns, attracts butterflies and birds SOUTHWESTERN WHITE up to 80 feet Moderate Excellent Moderate 4500-10000 Small Low PINE Pinus strobiformis A large native tree, that grows well in a forest environment. It has edible seeds, similar though smaller than those of piñon. It is very graceful and the needles are soft and wispy. Its blue-green foliage makes it a formal-looking tree when young. The width is between 20 and 30 feet. The optimum soil pH is 4.5 to 6.8. Hardiness zones are 5 through 9 at elevations above 4500 feet. NOT RECOMMENED FOR SOUTHEAST NEW MEXICO (CAPITANS, SACRAMENTO AND WHITE MOUNTAINS) DUE TO WHITE PINE BLISTER RUST. Pest Problems: bark beetle, twig beetle, dwarf mistletoe and White Pine blister rust. Suggested Uses: windbreaks, Christmas trees, and reforestation. SUPERB PENSTEMON 2 feet Moderate Good-Excellent 3500- 5500 Low Moderate Small Penstemon superbus Native to extreme southwestern New Mexico and southern Arizona. Grows in sandy or gravelly soils in canyons and washes. Has coral-colored blooms in April and May. Is a pollinator for native bees. Hardy in USDA hardiness zones 6-9. Pest Problems: none known Suggested Uses: pollinator for native bees 20-25 feet Moderate-Fast Excellent Moderate-High Low-Moderate 5000-10000 THINLEAF ALDER Small

Alnus tenuifolia This native species is common along creeks and canyons from 5000 to 10000 feet in elevation. Alder bark is rich in tannin and very puckery if chewed. The bark is used for tanning, giving skins a red color. Beavers, deer and rabbits eat the bark despite its puckery taste. It is good cover for wildlife and browse for deer. It has no calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.5 to 7.0. It has intermediate shade tolerance. Hardiness zones are 1 through 7 at elevations above 5000 feet. The width is between 12 and 20 feet. **Pest Problems:** Tent caterpillars. **Suggested Uses:** Wildlife plantings, streambank stabilization and erosion control.

TURPENTINE BUSH 1-3 feet Moderate-Fast Good-Excellent Low Moderate 3000- 6500 Small Ericameria laricifolia Is a native New Mexico shrub that is 1-3 feet tall and wide with small golden-yellow flowers and dense narrow leaves. It prefers full sun to part shade, is cold and heat tolerant and grows in dry, well-drained granitic, sand, clay loam or limestone soils. Hardiness zones are 7 through 10 at lower than 6500 feet elevation. It flowers in late summer and fall. Pest Problems: None serious Suggested Uses: wildlife browse, attracts butterflies and birds 4-6 feet Slow-Moderate Good-Excellent WAX CURRANT Low Moderate 5000-13000 Small Ribes cereum This attractive fragrant native shrub produces pink flowers in the spring and red fruit in the late summer. This plant is abundant over rocky slopes and in dry and open woods. It does well in areas of limited precipitation. It has high calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 6.5-7.5. It is shade intolerant. Hardiness zones are 5 through 8 at elevations above 5000 feet. The width is between 3 and 5 feet. Pest Problems: None serious. Suggested Uses: Wildlife habitat and erosion control WESTERN SOAPBERRY up to 50 feet Moderate Good Low Moderate 3500-6500 Small Sapindus drummondii This native tree is found in eastern and southern New Mexico. It has white flowers in April and May. Its berries are round and amber colored. They can be used to make soap, buttons and beads for jewelry. However they are not edible as they are toxic to humans. Western soapberry is tolerant of poor soils, has high drought tolerance, grows in part shade to full sun, has high calcium carbonate tolerance, high heat tolerance, is deer resistant, but has no tolerance to salinity. The optimum soil pH is 7.0 to 8.5. It is shade intolerant. Hardiness zones are 6 through 9 at elevations below 6500 feet. It is used in windbreaks and is used for hiding cover by game species and as nesting sites for doves and many songbirds. Pest Problems: none serious Suggested Uses: wildlife habitat, windbreaks WHITE FIR up to 80 feet Slow-Moderate Excellent Moderate-High Low 5000-10000 Small Abies concolor This native conifer, is widely used as a Christmas tree in New Mexico. It has a conical shape which becomes irregular with age. It is also a notable commercial species for the wood products industry in New Mexico. The needles are silvery blue and cones are olive-green to purple. It has low calcium carbonate tolerance and no salinity tolerance. The optimum soil pH is 5.5 to 7.8. It is shade tolerant. Hardiness zones are 4 through 7 at elevations above 5000 feet. The width is between 15 and 30 feet. Pest Problems: spruce budworm, Douglas-fir tussock moth, bark beetles, aphids and dwarf mistletoe. Suggested Uses: Christmas trees and

WOODS ROSE4-6 feetFastGood-ExcellentModerateModerate5000-9000BareRosa woodsiiThis hardy shrub produces showy pink flowers in the spring and has beautiful orange-red fall color. It is excellent cover for grouse and other fowl. Big
game animals readily graze them when present in winter range. It is a good soil stabilizer. It has low calcium carbonate and salinity tolerance. Optimum soil pH is 5.0-8.0. Its shade tolerance is intermediate. Hardiness zones are 3 through 8 at elevations between 5000 and 9000 feet. The width is between 3 and 4 feet. PestProblems:leaf cutter bees. Suggested Uses: erosion control, wildlife plantings, and windbreaks.

reforestation.