

**Appendix H. Recommended Tree Species for Targeted Environmental Benefits in Golden, Colorado**

Recommended Tree Species for Air Quality Improvement in Golden, Colorado

(Species recommendations are listed on 10% scales. Species listed first are therefore the most highly recommended for environmental improvement in the selected area)

*Click on below object to open PDF*

**All Species for Selected Functions in 10%Categories**  
Granby, Colorado

SCALE	SCIENTIFIC NAME	COMMON NAME	SENSITIVITY		
			O3	NO2	SO2
0-10%	ABIES HOLOPHYLLA	MANCHURIAN FIR			
	ABIES LASIOCARPA	SUBALPINE FIR			
	BETULA ALLEGHANIENSIS	YELLOW BIRCH	I	S	
	CELTIS OCCIDENTALIS	NORTHERN HACKBERRY			
	PICEA ABIES	NORWAY SPRUCE			
	PINUS PONDEROSA	PONDEROSA PINE	S	S/I	
	ULMUS AMERICANA	AMERICAN ELM		I/S	
<b>Count:</b>					<b>7</b>
11-20%	BETULA PAPYRIFERA	PAPER BIRCH		S	
	FRAXINUS PENNSYLVANICA	GREEN ASH	S	S	
	LARIX DECIDUA	EUROPEAN LARCH	I/S		S
	LARIX LARICINA	TAMARACK			
	PICEA ABIES X ASPERATA	NORWAY X CHINESE SPRUCE			
	PICEA ENGELMANNII	ENGELMANN SPRUCE		I	
	PINUS RADIATA	MONTEREY PINE	S		
<b>Count:</b>					<b>7</b>
20-30%	ABIES MAGNIFICA*	CALIFORNIA RED FIR			
	BETULA LENTA	BLACK BIRCH		S	
	LARIX LYALLII**	SUBALPINE LARCH			
	LARIX OCCIDENTALIS	WESTERN LARCH		S	
	LARIX SIBERICA**	SIBERIAN LARCH			
	ULMUS PROCERA*	ENGLISH ELM			
ULMUS THOMASII*	ROCK ELM				

Appendix H.

Recommended Tree Species for Carbon Sequestration Benefits in Golden, Colorado

*Click on below object to open PDF*

**All Species for Selected Functions in 10%Categories**  
Golden, Colorado

SCALE	SCIENTIFIC NAME	COMMON NAME	SENSITIVITY		
			O3	NO2	SO2
0-10%	ABIES ALBA	SILVER FIR			I
	ACER PLATANOIDES	NORWAY MAPLE	S		I
	ACER PSEUDOPLATANUS	SYCAMORE MAPLE			
	ACER RUBRUM	RED MAPLE	I	I	
	ACER SACCHARINUM	SILVER MAPLE	I		
	ACER X FREEMANII	FREEMAN MAPLE			
	AESCULUS FLAVA	YELLOW BUCKEYE	S		
	BETULA ALLEGHANIENSIS	YELLOW BIRCH	I	S	
	BETULA PAPYRIFERA	PAPER BIRCH		S	
	CARYA ALBA**	MOCKERNUT HICKORY			
	CARYA CAROLINAE-SEPTENTRIONALIS**	SOUTHERN SHAGBARK HICKORY			
	CARYA CORDIFORMIS	BITTERNUT HICKORY			
	CARYA GLABRA	PIGNUT HICKORY			
	CARYA LACINIOSA	SHELLBARK HICKORY			
	CARYA MYRISTICIFORMIS**	NUTMEG HICKORY			
	CARYA OVALIS**	RED HICKORY			
	CARYA OVATA	SHAGBARK HICKORY			
	CARYA PALLIDA**	SAND HICKORY			
	CARYA PUMILIA**	CARYA HICKORY			
	CARYA TEXANA**	BLACK HICKORY			
CARYA X BROWNII**	BROWN'S HICKORY				
CARYA X COLLINA**	COLLIN HICKORY				
CARYA X DEMAREEI**	DEMAREE HICKORY				

Appendix H.

Recommended Tree Species for Ozone Air Pollution Mitigation in Golden, Colorado

*Click on below to open PDF*

**All Species for Selected Functions in 10%Categories**  
Golden, Colorado

SCALE	SCIENTIFIC NAME	COMMON NAME	SENSITIVITY		
			O3	NO2	SO2
0-10%	ACER PLATANOIDES	NORWAY MAPLE	S		I
	AESCLUSUS CHINENSIS**	CHINESE HORSE CHESTNUT			
	AESCLUSUS FLAVA	YELLOW BUCKEYE	S		
	AESCLUSUS GLABRA	OHIO BUCKEYE	I		
	AESCLUSUS HIPPOCASTANUM	HORSECHESTNUT			
	AESCLUSUS PARVIFLORA*	BOTTLEBRUSH BUCKEYE			
	AESCLUSUS X BUSHII**	BUSH'S CHESNUT			
	AESCLUSUS X CARNEA	RED HORSECHESTNUT			
	AESCLUSUS X HYBRIDA*	HYBRID CHESNUT			
	AESCLUSUS X MARYLANDICA**	MARYLAND CHESNUT			
	AESCLUSUS X MUTABILIS**	APRICOT-FLOWERED DWARF HORSE CHESTNUT			
	AESCLUSUS X NEGLECTA**	SPRING YELLOW HORSE CHESTNUT			
	AESCLUSUS X WORLITZENSIS**	WORLITZ'S CHESTNUT			
	BETULA ALLEGHANIENSIS	YELLOW BIRCH	I	S	
	BETULA LENTA	BLACK BIRCH		S	
	BETULA PAPYRIFERA	PAPER BIRCH		S	
	BETULA X EASTWOODIAE**	EASTWOOD'S BIRCH		S	
	CARPINUS BETULUS	EUROPEAN HORNBEAM			
	CARYA GLABRA	PIGNOT HICKORY			
	CELTIS LAEVIGATA	SUGARBERRY			
	CELTIS OCCIDENTALIS	NORTHERN HACKBERRY			
	CORYLUS COLURNA	TURKISH HAZELNUT			

Appendix H.  
 Tree Species with Low VOC Emissions – Golden, Colorado  
 Click on below to open PDF

**All Species for Selected Functions in 10%Categories**  
 Golden, Colorado

SCALE	SCIENTIFIC NAME	COMMON NAME	SENSITIVITY		
			O3	NO2	SO2
0-10%	AMELANCHIER ARBOREA VAR. ARBOREA*	COMMON SERVICEBERRY		S	
	AMELANCHIER BARTRAMIANA**	OBLONGFRUIT SERVICEBERRY		S	
	AMELANCHIER INTERIOR**	PACIFIC SERVICEBERRY		S	
	AMELANCHIER PALLIDA**	PALE SERVICEBERRY		S	
	AMELANCHIER SANGUINEA**	ROUNDLEAF SERVICEBERRY		S	
	AMELANCHIER UTAHENSIS**	UTAH SERVICEBERRY		S	
	AMELANCHIER X INTERMEDIA**	INTERMEDIATE SERVICEBERRY		S	
	AMELANCHIER X NEGLECTA**	NEGLECTED SERVICEBERRY		S	
	AMELANCHIER X QUINTI-MARTII**	QUINT MART'S SERVICEBERRY		S	
	CARPINUS BETULUS	EUROPEAN HORNBEAM			
	CHIONANTHUS AXILLIFLORUS**	HUESO			
	CHIONANTHUS COMPACTUS**	BRIDGOTREE			
	CHIONANTHUS DOMINGENSIS**	WHITE ROSEWOOD			
	CHIONANTHUS HOLDRIDGEI**	HUESO PRIETO			
	CHIONANTHUS LIGUSTRINUS**	CABRA BLANCA			
	CHIONANTHUS VIRGINICUS	FRINGE TREE			
	DIOSPYROS VIRGINIANA	COMMON PERSIMMON			
	FRAXINUS AMERICANA	WHITE ASH		S	
	FRAXINUS BERLANDIERIANA**	ARIZONA ASH			
	FRAXINUS CHINENSIS**	CHINESE ASH			
FRAXINUS GOODDINGII**	GOODDING'S ASH				
FRAXINUS NIGRA	BLACK ASH				

**Appendix H.**

Recommended Tree Species for Energy Conservation in Golden, Colorado

*Click on below to open PDF***All Species for Selected Functions in 10%Categories**

Golden, Colorado

SCALE	SCIENTIFIC NAME	COMMON NAME	SENSITIVITY		
			O3	NO2	SO2
0-10%	ACER PLATANOIDES	NORWAY MAPLE	S		I
	ACER PSEUDOPLATANUS	SYCAMORE MAPLE			
	ACER RUBRUM	RED MAPLE	I	I	
	ACER SACCHARUM	SUGAR MAPLE			
	ACER X FREEMANII	FREEMAN MAPLE			
	AESCULUS FLAVA	YELLOW BUCKEYE	S		
	AESCULUS GLABRA	OHIO BUCKEYE	I		
	AESCULUS HIPPOCASTANUM	HORSECHESTNUT			
	BETULA ALLEGHANIENSIS	YELLOW BIRCH	I	S	
	BETULA PAPYRIFERA	PAPER BIRCH		S	
	CELTIS LAEVIGATA	SUGARBERRY			
	CELTIS OCCIDENTALIS	NORTHERN HACKBERRY			
	CORYLUS COLURNA	TURKISH HAZELNUT			
	FAGUS GRANDIFOLIA	AMERICAN BEECH			
	FRAXINUS AMERICANA	WHITE ASH	S		
	FRAXINUS EXCELSIOR	EUROPEAN ASH			
	FRAXINUS PENNSYLVANICA	GREEN ASH	S	S	
	FRAXINUS QUADRANGULATA	BLUE ASH			
	JUGLANS NIGRA	BLACK WALNUT			
	LARIX DECIDUA	EUROPEAN LARCH	I/S		S
LARIX KAEMPFERI	JAPANESE LARCH	I		S	
LARIX LARICINA	TAMARACK				
LARIX LEPTOLEPIS*	JAPANESE LARCH	I		S	

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