

1 Vegas LIFE for tree planting activities; and

2 WHEREAS, the City Council finds it desirable to continue developing partnerships with public
3 institutions, academic institutions, regulatory agencies and regional bodies to broaden the possibilities for
4 conducting research and analyzing the benefits of the urban forest in this part of the country; and

5 WHEREAS, a proper urban forestry management plan will guide the care and preservation of public
6 trees, outline the budgetary and staffing needs for the management and planting of trees on public property
7 and provide outreach to private property in order to fulfill the goals of the 2050 Master Plan; and

8 WHEREAS, a formal urban forestry program will enhance community awareness through education
9 and outreach, protection and care of current and future trees, and foster pride and ensure the City's long-
10 term sustainability, resilience, health, and livability.

11 NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF LAS
12 VEGAS AS FOLLOWS:

13 1. The City of Las Vegas Urban Forestry Program is hereby created and incorporates by reference the
14 relevant identified urban forestry, water, and hazard goals, outcomes, and implementation strategies of the
15 City of Las Vegas 2050 Master Plan. The program shall include:

16 A. Maintenance of the City's Tree City USA designation, including at least one public tree
17 planting event.

18 B. A program of public education to provide information, public awareness, and encourage
19 public participation in planting, maintaining and caring for trees and the tree canopy.

20 C. Coordination with state and regional academic institutions, public agencies, and the private
21 sector on relevant urban forestry matters.

22 D. The formation and maintenance of partnerships to ensure urban forestry remains a priority
23 for the City and the Southern Nevada region.

24 E. A process to designate as "legacy trees" any trees deemed to important, historic, or a
25 landmark.

26 2. The Urban Forester, in consultation with the Departments of Parks, Recreation, and Cultural Affairs;

1 Community Development; and Public Works, shall prepare and maintain:

2 A. An inventory of all trees on City property and in public rights-of-way, and a plan to ensure
3 that the species of trees are diverse for protection from catastrophic loss due to pests or disease.

4 B. An Urban Forestry Management Plan in alignment with relevant 2050 Master Plan
5 outcomes, including any necessary policy recommendations and budgetary needs for City Council for urban
6 forestry.

7 3. For purposes of the City's Urban Forestry Program, the Southern Nevada Water Authority/Southern
8 Nevada Regional Planning Coalition's Regional Plant List (Exhibit A) is adopted as minimum standards for
9 tree and plant species as follows:

10 A. For use by the City itself in the planting of trees.

11 B. As may be mandated for use by others by means of ordinance or other regulatory document.

12 C. For recommended use by others in the planting of trees within the City limits.

13 4. For purposes of the City's Urban Forestry Program, the City's Urban Forester has the discretion to
14 do the following with respect to the use of the "CLV Preferred Tree List" (Exhibit B):

15 A. Designate the list as the "City of Las Vegas Approved Tree and Plant Species List."

16 B. Mandate its use as the minimum standard for the planting of trees by the City or its authorized
17 agents or contractors.

18 C. Recommend its use as the minimum standard for the planting of other trees within the City
19 limits.

20 D. Further update, modify, or amend the list from time to time to add to, remove, diversify, or
21 restrict specific plant or tree species.

22 ...

23 ...

24 ...

25 ...

26 ...

1 5. The Urban Forester, or other designated staff in coordination with the Code Enforcement Division
2 of the Department of Community Development, may recommend mitigation measures or the removal of any
3 tree or plant on public or private property that may pose a threat to public health, safety, or welfare by reason
4 of damage, nuisance, disease, or pest.

5 PASSED, ADOPTED, AND APPROVED this _____ day of _____, 2022.

6 CITY OF LAS VEGAS

7
8 BY _____
CAROLYN G. GOODMAN, Mayor

9 ATTEST:

10 _____
11 LUANN D. HOLMES, MMC
City Clerk

12 APPROVED AS TO FORM
13 Val Steed 8-22-22
14 Val Steed, Date
Deputy City Attorney

15
16
17
18
19
20
21
22
23
24
25
26

KEY			Comments:										Rating												
Rating: Based on a combination of factors related to climate resiliency such as environmental tolerances (heat, cold), water efficiency, drought tolerance, pathogen resistance, along with some additional factors like diversity, maintenance needs, and invasiveness. Plants rated from 0★ (least appropriate) to 4★ (most appropriate) Tree Size (based on both height and width): Small (< 20 ft), Medium (20-29 ft), Large (30- 45ft), Extra Large (>45ft) Tree Type: Deciduous, Evergreen, Semi-evergreen Growth Rate: Slow, Moderate, Fast Water Needs: Very Low, Low, Moderate, High Excessive Litter: Leaves, Flowers, Seeds/Fruit Biogenic Volatile Organic Compounds: Low, Medium, High, or data not available ----			1. Organic mulch recommended 2. Many cultivars 3. Potential diversity issues 4. Low environmental tolerances 5. Invasive species 6. Mojave native 7. Low drought tolerance 8. High pathogen susceptibility 9. Reduced longevity 10. Protected North or East facing microclimate necessary										Rating S, M, L, X Tree Size (feet) Height (average) (feet) Width (average) (sq. feet) Coverage D, E, S Tree Type S, M, F Growth Rate V, L, M, H Water Needs L, F, S Excessive Litter Yes or No Spines or Thorns L, M, H Biogenic Volatile Organic Compounds (BVOC's) Yes or No Parking Lot Tree Yes or No Street Tree Yes or No Buffer Tree (sq. feet) Minimum Soil Surface Area (cu. feet) Minimum Soil Volume Yes or No Tolerates Compacted Soil Yes or No Compatible with Turf Grass Yes or No Compatible with Overhead Utilities Comments												
			Botanical Name	Cultivar	Common Name	S	M	L	X	Height (feet)	Width (sq. feet)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	BVOC's	Parking Lot Tree	Street Tree	Buffer Tree	Min Soil Area	Min Soil Volume	Tolerates Compacted Soil	Compatible with Turf Grass
<i>Fraxinus angustifolia ssp. oxycarpa</i>	'Raywood'	Raywood Ash	0★	L	30	20	236																		1,3,4,7,8
<i>Fraxinus anomala</i>		Single-leaf Ash	3★	M	20	20	236	D	M	M	---	N	---	N	---	N	N	N	120	500	N	Y	Y		1,6
<i>Fraxinus uhdei</i>		Shamel Ash	0★	L	40	30	530																		1,4,7,8,9
<i>Fraxinus velutina</i>		Velvet/Arizona Ash	1★	L	40	30	530																		1,2,4,7,8
<i>Fraxinus velutina</i>	'Bonita'	Bonita/Montebello Ash	1★	L	30	30	530																		1,2,6,7
<i>Fraxinus velutina</i>	'Modesto'	Modesto Ash	1★	L	40	25	368																		1,4,7,8
<i>Fraxinus x velutina</i>	'Fan-West', 'Fan-Tex'	Fan-West/Fan-Tex Ash	1★	L	40	30	530																		1,2,3,4,7,8
<i>Geijera parviflora</i>		Australian Willow	1★	M	25	20	236																		4,9
<i>Geoffroea decorticans</i>		Chilean Palo Verde	3★	M	25	25	368	D	S	V	---	S	Y	---	Y	Y	Y	120	500	N	N	N	Y		4
<i>Ginkgo biloba</i>		Maidenhair Tree	2★	L	30	20	236	D	S	M	---	N	M	N	N	N	N	200	600	N	Y	N	Y		1,4,7
<i>Gleditsia triacanthos var. inermis</i>		Thornless Honey Locust	3★	L	35	30	530	D	M	M	---	S	N	M	N	Y	N	200	1000	N	Y	N			1,2
<i>Grevillea robusta</i>		Silk Oak	1★	L	35	20	236																		4
<i>Havardia mexicana</i>		Mexican Ebony	4★	L	30	25	368	D	M	L	---	Y	---	Y	Y	Y	200	600	N	N	N	Y			
<i>Havardia pallens (=Pithecellobium)</i>		Tenaza	3★	M	20	15	133	D	M	L	---	N	---	N	---	N	N	120	100	N	N	Y			
<i>Ilex x altacolerensis</i>	'Wilsonii'	Wilson Holly	1★	S	15	10	59																		1,4,7,10
<i>Ilex cornuta</i>	'Burfordii'	Burford Holly	1★	S	15	12	85																		1,2,4,7,10
<i>Ilex x 'Nellie R. Stevens'</i>	'Nellie R. Stevens'	Nellie R. Stevens Holly	1★	S	18	10	59																		1,4,7,10
<i>Ilex vomitoria</i>		Yaupon Holly	1★	S	15	10	59																		1,2,4,7,10
<i>Jacaranda mimosifolia</i>		Jacaranda	0★	L	35	25	368																		1,4,9
<i>Juniperus monosperma</i>		One-seed Juniper	3★	S	15	15	133	E	S	L	---	N	---	N	---	N	Y	80	200	N	N	Y			1,6
<i>Juniperus osteosperma</i>		Utah Juniper	3★	M	20	20	236	E	S	L	---	N	---	N	---	N	Y	120	300	N	N	Y			1,6
<i>Juniperus scopulorum</i>		Rocky Mountain Juniper	3★	L	30	15	133	E	M	M	---	N	---	N	---	N	Y	200	300	N	N	Y			1,2,6
<i>Koeleruteria bipinnata</i>		Chinese Flame Tree	1★	L	30	30	530																		1,4,7,9
<i>Koeleruteria paniculata</i>		Goldenrain Tree	2★	L	30	30	530	D	M	M	---	N	H	N	Y	N	200	1000	N	Y	N				1,7
<i>Lagerstroemia indica</i>		Crape Myrtle	1★	S	15	12	85																		1,2,4,7,10
<i>Laurus nobilis</i>		Bay Laurel	3★	M	20	15	133	E	M	M	---	N	L	N	Y	80	200	N	Y	Y					1
<i>Leucaena leucocephala</i>		White Lead Tree	0★	M	25	25	368																		4,5,9
<i>Leucaena retusa</i>		Golden Leadball Tree	4★	M	20	20	236	D	M	L,M	---	N	M	N	Y	Y	120	300	N	N	Y				
<i>Ligustrum lucidum</i>		Glossy Privet	0★	M	25	20	236																		4,7,9,10
<i>Lysiloma watsonii</i>		Fern of the Desert	2★	S	15	15	133	S	M	L	---	S	N	---	N	N	N	80	200	N	N	Y			4
<i>Maclura pomifera</i>	'White Shield'	Osage Orange	2★	L	30	30	530	D	M	M	---	Y	---	N	Y	Y	200	1000	N	Y	N				1,7
<i>Magnolia grandiflora</i>	'Little Gem'	Southern Little Gem Magnolia	0★	M	25	12	85																		4,7,9,10
<i>Melia azedarach</i>		Chinaberry	1★	L	30	30	530																		1,5,9
<i>Morus alba (Female)</i>	'Unryu'	Fruiting/Contorted Mulberry	2★	M	25	20	236	D	M	M	L,F,S	N	---	N	---	N	Y	120	350	N	Y	N			1,5,7
<i>Olea europaea</i>	'Swan Hill', 'Wilsonii'	Fruitless Olive	2★	M	25	20	236	E	S	M	---	N	L	Y	Y	Y	120	350	N	Y	N				1,4
<i>Olneya tesota</i>		Desert Ironwood	3★	M	25	25	368	D	S	V	---	Y	M	Y	Y	Y	120	500	Y	N	Y				4
<i>Parkinsonia aculeata</i>		Mexican Palo Verde	0★	M	20	20	236																		5,8,9
<i>Parkinsonia florida</i>		Blue Palo Verde	3★	L	30	30	530	D	M	V,L	---	S	Y	M	Y	Y	200	1000	Y	N	N				5
<i>Parkinsonia microphylla</i>		Foothill Palo Verde	4★	M	20	20	236	D	S	M	V	---	Y	M	N	Y	Y	120	300	N	N	Y			
<i>Parkinsonia praecox</i>		Palo Brea	4★	L	25	30	530	D	M	V	---	S	Y	---	N	Y	Y	200	1000	Y	N	Y			
<i>Parkinsonia x 'AZT Thornless'</i>	'AZT Thornless'	Thornless Hybrid Palo Verde	4★	M	25	25	368	S	M	V,L	---	N	M	Y	Y	Y	120	500	Y	N	N				
<i>Parkinsonia x 'Desert Museum'</i>	'Desert Museum'	Desert Museum Palo Verde	2★	M	25	25	368	S	M	V,L	---	N	M	Y	Y	Y	120	500	Y	N	N				3
<i>Parkinsonia x 'Sonoran Emerald'</i>	'Sonoran Emerald'	Sonoran Emerald Palo Verde	3★	M	25	25	368	S	M	V,L	---	N	M	Y	Y	Y	120	500	Y	N	N				8
<i>Parkinsonia x sonorae</i>		Sonoran Palo Verde	4★	M	20	20	236	D	S	V	---	Y	M	N	Y	Y	120	300	N	N	Y				
<i>Paulownia kawakamii (=tomentosa)</i>		Sapphire Dragon Tree	0★	S	15	15	133																		4,5,7,9,10
<i>Pinus brutia</i>		Turkish/Calabrian Pine	2★	X	50	30	530	E	F	M	L	---	N	N	Y	240	1000	N	Y	N					1
<i>Pinus brutia var. eldarica</i>		Afghan/Mondell Pine	1★	X	45	30	530																		1,3,4,8
<i>Pinus canariensis</i>		Canary Island Pine	1★	X	45	25	368																		1,4
<i>Pinus halepensis</i>		Aleppo Pine	1★	X	45	25	368																		1,3,4,8
<i>Pinus pinea</i>		Stone Pine	2★	X	60	40	942	E	S	M	M	L	N	M	N	Y	Y	240	1600	N	Y	N			1,8
<i>Pinus roxburghii</i>		Chir Pine	2★	L	40	25	368	E	M	M	L	N	M	N	Y	Y	200	700	N	Y	N				1
<i>Pinus sabiniana</i>		Foothill/Gray Pine	3★	X	55	30	530	E	M	M	L,S	N	L	N	Y	Y	240	1300	N	Y	N				1
<i>Pinus thunbergii</i>		Japanese Black Pine	0★	S	15	15	133																		1,4,8,9,10
<i>Pistacia atlantica</i>		Mt. Atlas Mastic Tree	2★	L	30	30	530	S	M	M	S	N	---	N	N	N	200	1000	N	N	N				1
<i>Pistacia chinensis</i>		Chinese Pistache	3★	L	35	30	530	D	M	M	L,S	N	M	Y	Y	Y	200	1000	Y	Y	N				1,2,3
<i>Pistacia lentiscus</i>		Mastic Tree	3★	M	15	20	236	E	S	L	L	N	---	N	Y	Y	120	350	N	Y	N				4
<i>Pistacia x 'Red Push'</i>	'Red Push'	Red Push Pistache	3★	L	30	30	530	D	M	M	L,S	N	M	Y	Y	Y	200	1000	Y	Y	N				1,3
<i>Pittosporum phylliraeoides</i>		Willow Pittosporum	4★	M	20	15	133	E	M	L	L,F	N	---	Y	Y	Y	120	200	N	N	Y				4
<i>Platanus acenifolia</i>		London Plane Tree, Sycamore	1★	X	60	40	942																		1,2,4,7,8
<i>Platanus mexicana</i>		Mexican Sycamore	2★	X	50	35	722	D	F	M	L	N	H	N	Y	Y	200	1300	N	Y	N				1,7
<i>Platanus racemosa</i>		California Sycamore	1★	X	50	40	942																		

KEY			Rating: Based on a combination of factors related to climate resiliency such as environmental tolerances (heat, cold), water efficiency, drought tolerance, pathogen resistance, along with some additional factors like diversity, maintenance needs, and invasiveness. Plants rated from 0★ (least appropriate) to 4★ (most appropriate)										Comments:																												
Tree Size (based on both height and width): Small (< 20 ft), Medium (20-29 ft), Large (30- 45ft), Extra Large (>45ft)			1. Organic mulch recommended										2. Many cultivars																												
Tree Type: Deciduous, Evergreen, Semi-evergreen			3. Potential diversity issues										4. Low environmental tolerances																												
Growth Rate: Slow, Moderate, Fast			5. Invasive species										6. Mojave native																												
Water Needs: Very Low, Low, Moderate, High			7. Low drought tolerance										8. High pathogen susceptibility																												
Excessive Litter: Leaves, Flowers, Seeds/Fruit			9. Reduced longevity										10. Protected North or East facing microclimate necessary																												
Biogenic Volatile Organic Compounds: Low, Medium, High, or data not available ----			Biogenic Volatile Organic Compounds (BVOC's)										Biogenic Volatile Organic Compounds (BVOC's)																												
Botanical Name	Cultivar	Common Name	Rating	S	M	L	X	Tree Size (feet)	Height (average) (feet)	Width (average) (sq. feet)	D	E	S	G	M	F	V	L	M	H	L	F	S	Yes or No	Spines or Thorns	Biogenic Volatile Organic Compounds (BVOC's)	Yes or No	Parking Lot Tree	Yes or No	Street Tree	Yes or No	Buffer Tree	Minimum Soil Surface Area (sq. feet)	Minimum Soil Volume (cu. feet)	Yes or No	Tolerates Compacted Soil	Yes or No	Compatible with Turf Grass	Yes or No	Compatible with Overhead Utilities	Comments
<i>Ziziphus jujuba</i>		Jujube	3★	M	25	20	236	D	6	6	D	6	M	6	6	6	6	6	6	6	6	6	6	Y	H	N	N	N	N	N	80	300	N	Y	N	N	N	N	1,2		
TREES - Under Review																																									
<i>Celtis africana</i>		African Hackberry	?	L	35	30	530	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	N	200	1000	?	?	N	?	?	N	?	?	1		
<i>Fraxinus cuspidata</i>		Fragrant Ash	?	M	20	15	133	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	N	120	200	N	?	?	N	?	?	?	?	1,6,7		
<i>Juglans major</i>		Arizona Walnut	?	L	30	30	530	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	N	200	1000	N	?	?	N	?	?	?	?	1,7		
<i>Juniperus deppeana</i>	'McFetter'	Alligator Juniper	?	L	40	20	236	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	L	?	?	?	Y	200	300	N	?	?	?	?	?	?	?	1			
<i>Mariosousa willardiana</i>		Palo Blanco	?	M	20	15	133	S	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	120	200	?	?	?	?	?	?	?	?	4		
<i>Pinus cembroides</i>		Mexican Pinyon	?	M	25	15	133	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	M	?	?	?	Y	120	200	N	?	?	?	?	?	?	?	1			
<i>Pinus engelmannii</i>		Apache Pine	?	X	60	35	722	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	240	1300	N	?	?	?	?	?	?	?	1			
<i>Pinus edulis</i>		Two Needle Pinyon	?	M	20	15	133	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	M	?	?	?	Y	120	300	N	?	?	?	?	?	?	?	1			
<i>Pinus monophylla</i>		Single Needle Pinyon	?	M	20	20	236	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	H	?	?	?	Y	120	300	N	?	?	?	?	?	?	?	1,6			
<i>Pinus quadrifolia</i>		Parry Pinyon	?	M	25	20	236	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	?	Y	120	300	N	?	?	?	?	?	?	?	1		
<i>Psoralethamnus spinosus</i>		Desert Smoke Tree	?	S	15	15	133	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	Y	M	?	?	?	Y	80	200	?	?	?	?	?	?	?	?	6		
<i>Quercus arizonica</i>		Arizona White Oak	?	X	45	40	942	S	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	240	1300	N	?	?	?	?	?	?	?	?	1		
<i>Quercus chrysolepis</i>		Canyon Live Oak	?	L	30	25	368	E	?	?	?	?	?	?	?	?	?	?	?	?	?	N	H	?	?	?	Y	200	500	N	?	?	?	?	?	?	?	1,6			
<i>Quercus emoryi</i>		Emory Oak	?	L	30	25	368	S	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	200	500	N	?	?	?	?	?	?	?	1		
<i>Quercus gambelii x macrocarpa</i>		Bur-gambel Oak	?	L	30	30	530	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	200	1000	N	?	?	?	?	?	?	?	1		
<i>Quercus gravesii</i>		Chisos Red/Grave's Oak	?	L	35	30	530	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	200	1000	N	?	?	?	?	?	?	?	1		
<i>Quercus grisea</i>		Gray Oak	?	L	30	25	368	S	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	200	500	N	?	?	?	?	?	?	?	1		
<i>Quercus hypoleucoides</i>		Silverleaf Oak	?	L	35	30	530	E	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	200	1000	N	?	?	?	?	?	?	?	1		
<i>Quercus oblongifolia</i>		Mexican Blue Oak	?	M	25	25	368	E	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	120	500	N	?	?	?	?	?	?	?	1		
<i>Quercus sartorii</i>		Mexican Red/Sator's Oak	?	M	25	25	368	D	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	120	500	N	?	?	?	?	?	?	?	1		
<i>Styphnolobium affine (=Sophora affinis)</i>		Eve's Necklace	?	M	25	15	133	S	?	?	?	?	?	?	?	?	?	?	?	?	?	?	N	---	?	?	?	Y	120	350	N	?	?	?	?	?	?	?	1		
PALMS AND CYCADS																																									
<i>Bismarckia nobilis</i>		Bismarck Palm	0★	M	30	20	236																																	1,7	
<i>Brahea armata</i>		Mexican Blue Palm	3★	M	25	15	133	E	S	M	---	Y	M	N	Y	N	N	120	200	N	N	N																		1,7	
<i>Brahea decumbens</i>		Mexican Dwarf Blue Palm	3★	M	15	25	368	E	S	M	---	Y	---	N	N	N	120	500																							
<i>Butia capitata</i>		Pindo Palm	1★	M	20	15	133																																1,4,7		
<i>Chamaerops humilis</i>		Mediterranean Fan Palm	2★	S	15	15	133	E	S	M	S	Y	M	N	N	N	80	200	Y	Y	Y																		7		
<i>Cycas revoluta</i>		Japanese Sago Palm	1★	-	5	6	28																																1,7,10		
<i>Livistona chinensis</i>		Chinese Fan Palm	2★	S	15	10	59	E	S	M	---	Y	---	N	N	N	80	100	N	N	Y																				
<i>Livistona decipiens</i>		Ribbon Fan Palm	2★	L	30	10	59	E	M	L	---	Y	---	N	N	N	200	100	N	N	Y																				
<i>Livistona nitida</i>		Carnarvon Fan Palm	2★	L	40	15	133	E	M	F	M	---	Y	---	Y	Y	N	200	200	N	Y	N																			
<i>Livistona saribus</i>		Taraw Fan Palm	2★	L	30	15	133	E	S	M	S	Y	---	N	Y	N	200	200	N	N	Y																				
<i>Nannorrhops ritchieana</i>		Mazari Palm	4★	S	10	12	85	E	M	L	---	N	---	Y	Y	N	80	150	N	N	Y																				
<i>Phoenix canariensis</i>		Canary Island Date Palm	2★	L	40	30	530	E	S	M	S	Y	M	N	Y	N	200	1000	Y	Y	N																			1,5,7,8	
<i>Phoenix dactylifera</i>		Date Palm	2★	X	60	20	236	E	S	M	S	Y	M	N	Y	N	240	300	Y	Y	N																			1,5,7	
<i>Phoenix reclinata</i>		Senegal Date Palm	1★	M	20	15	133																																5,7		
<i>Phoenix roebelenii</i>		Pygmy Date Palm	0★	-	6	7	38																																		
<i>Phoenix rupicola</i>		Cliff Date	2★	M	20	15	133	E	S	M	F	S	Y	---	N	N	N	120	200	N	Y	Y																			
<i>Phoenix sylvestris</i>		Wild Date	2★	M	25	10	59	E	S	M	F	S	Y	---	N	N	N	120	100	N	Y	Y																			
<i>Phoenix theophrasti</i>		Greek/Cretan Date Palm	2★	L	40	15	133	E	M	M	F	Y	---	Y	Y	N	200	200	N	Y	N																				
<i>Sabal causerium</i>		Puerto Rican Hat Palm	2★	L	35	15	133	E	M	M	F	S	N	---	Y	Y	N	200	200	N	Y	N																			
<i>Sabal domingensis</i>		Hispaniolan Palmetto	2★	M	20	15	133	E	M	M	F	S	N	---	Y	Y																									

CLV Preferred Tree List

KEY																									
Rating	environmental tolerance, water efficiency, diversity, maintenance needs, invasiveness, pathogen resistance	Comments:	Downtown District Use:																						
Tree Size: Small (< 20 ft), Medium (20-29 ft), Large (30-45ft), Extra Large (>45ft)	Tree Type: Deciduous, Evergreen, Semievergreen	1. Organic mulch recommended 2. Many cultivars 3. Potential diversity issues 4. Low environmental tolerances 5. Invasive species 6. Mojave native 7. Low drought tolerance 8. High pathogen susceptibility 9. Reduced longevity 10. Protected North or East facing microclimate necessary	1. Historic Westside 2. Cashman 3. Medical 4. Market 5. Design 6. Gateway 7. 18b 8. Civic & Business 9. Resort & Casino 10. Fremont East 11. Founders 12. Symphony Park																						
Growth Rate: Slow, Moderate, Fast	Water Needs: Very Low, Low, Moderate, High	Biogenic Volatile Organic Compounds: Low, Medium, High, or data not available -- *** denotes street trees See Sheet 2 for Attribute Definitions																							
Botanical Name	Common Name	District use	Cultivar	Rating	Tree Size (S, M, L, X)	Height (average) (Feet)	Width (average) (Feet)	Coverage (Sq. Feet)	Tree Type (D, E, S)	Growth Rate (S, M, F)	Water Needs (V, L, M, H)	Excessive Litter (L, F, S)	Spines or Thorns (Yes or No)	Biogenic Volatile Organic Compounds (L, M, H)	Parking Lot Tree (Yes or No)	Street Tree (Yes or No)	Buffer Tree (Yes or No)	Minimum Soil Surface Area (Sq. Feet)	Minimum Soil Volume (Cu. Feet)	Tolerates Compacted Soil (Yes or No)	Compatible With Turf Grass (Yes or No)	Compatible With Overhead Utilities (Yes or No)	Comments		
Extra Large Deciduous Trees																									
<i>Carya illinoensis</i>	Pecan		'Witchita'	3	X	50	40	942	D	M	H	L	S	N	---	N	N	N	240	1600	N	Y	N	1,2,7	
<i>Salix gooddingii</i>	Gooddings willow			3	X	60	50	1473	D	F	H	L	F	S	N	---	N	N	N	240	2500	N	Y	N	6
<i>Ulmus americana</i>	American elm	11		3	X	50	60	2155	D	M	M	L	N	N	L	N	N	N	240	3300	N	Y	N	1,2,7	
Large Deciduous Trees																									
<i>Callis australis</i> ***	Mediterranean hackberry	8, 10, 11,		2	L	45	45	1193	D	M	M	L	N	---	N	Y	N	N	200	2100	N	Y	N	1	
<i>Callis occidentalis</i> ***	Common hackberry	8, 10, 11,		2	L	45	30	530	D	F	M	L	N	---	N	Y	N	N	200	1600	N	Y	N	1	
<i>Gleditsia triacanthos var. inermis</i> ***	Honey locust	n	'Moraine'	2	L	35	30	530	D	M	M	S	N	H	N	Y	N	N	200	1000	N	Y	N	1,2	
<i>Koeleruteria paniculata</i>	Goldenrain tree	8, 11		3	L	30	30	530	D	M	M	N	H	N	Y	N	N	200	1000	N	Y	N	1,7		
<i>Maclura pomifera</i> ***	Osage orange	8, 10, 11	'White Shield'	3	L	40	35	722	D	M	M	Y	---	N	Y	N	N	200	1300	N	Y	N	1,7		
<i>Parkinsonia florida</i>	Blue palo verde	5		2	L	30	30	530	D	M	V	S	N	M	Y	Y	Y	200	1000	Y	N	N			
<i>Parkinsonia praecox</i> ***	Palo brea	1, 3, 5, 6, 7, 11		1	L	35	30	530	D	M	V	S	Y	---	Y	Y	Y	200	1000	Y	N	N			
<i>Pistacia chinensis</i> ***	Chinese pistache	10	'Sarah's Radiance'	3	L	35	30	368	D	M	M	L	S	N	M	Y	Y	N	200	700	Y	Y	N	1,2,3	
<i>Pistacia x atlantica</i> ***	Red push pistache	1, 4, 9, 10, 11, 12	'Red Push'	2	L	30	30	368	D	M	M	L	N	M	Y	Y	Y	N	200	700	Y	Y	N	1,3	
<i>Platanus occidentalis var. mexicana</i> ***	Mexican sycamore	8, 10, 11		3	L	45	35	722	D	F	M	L	N	H	N	Y	N	N	200	1000	N	Y	N	1,7	
<i>Populus alba</i>	White poplar			3	L	45	40	942	D	F	M	L	N	---	N	N	N	200	1600	N	Y	N	1,2,7,8		
<i>Prosopis glandulosa</i>	Thornless honey mesquite	1, 2, 5, 11	'Maverick', 'AZT'	2	L	30	30	530	D	F	L	S	N	---	Y	N	N	200	1000	Y	N	N	8		
<i>Prosopis glandulosa var. glandulosa</i>	Texas honey mesquite			2	L	30	30	530	D	F	L	S	Y	---	Y	N	N	200	1000	Y	N	N	8		
<i>Quercus buckleyi</i> ***	Buckley oak		'Red Rock'	3	L	30	30	530	D	S	M	L	N	H	N	Y	N	200	1000	N	Y	N	1,7		
<i>Quercus canbyi</i>	Canby oak	3, 8, 11		2	L	30	30	530	D	M	M	N	---	N	N	N	200	1000	N	Y	N	1			
<i>Quercus douglasii</i> ***	Blue oak	1, 8, 10, 11		2	L	30	30	530	D	M	M	N	M	N	Y	N	200	1000	N	Y	N	1			
<i>Quercus lobata</i>	Valley oak			3	L	40	40	942	D	M	M	L	S	N	M	N	N	200	1600	N	Y	N	1,7		
<i>Quercus macrocarpa</i> ***	Bur oak	8, 10, 11		2	L	45	40	942	D	S	M	L	S	N	---	N	Y	N	200	1600	N	Y	N	1	
<i>Quercus muhlenbergii</i>	Chinquapin oak			2	L	30	30	530	D	S	M	L	S	N	---	N	N	200	1000	N	Y	N	1		
<i>Quercus shumardii</i> ***	Shumard oak	3, 8, 11		3	L	45	30	530	D	M	M	L	S	N	---	N	Y	N	200	1000	N	Y	N	1,7	
<i>Ulmus crassifolia</i> ***	Cedar elm	3, 4, 10, 11		2	L	30	35	722	D	M	M	N	---	N	Y	N	200	1300	N	Y	N	1			
<i>Vachellia farnesiana</i> ***	Sweet acacia	1, 8		2	L	30	25	368	D	F	L	S	Y	M	N	Y	N	200	700	Y	N	N			
<i>Vachellia schaffneri</i>	Twisted acacia	5		1	L	35	45	1193	D	M	L	S	Y	M	N	Y	N	200	2100	N	Y	N			
Medium Deciduous Trees																									
<i>Bauhinia lunaroides</i>	Orchid tree	3, 8, 11		1	M	20	20	236	D	M	L	N	---	N	N	N	120	300	N	N	Y	1			
<i>Bauhinia macranthera</i>	Chihushuan orchid tree			2	M	20	20	236	D	M	M	N	---	N	N	N	120	300	N	N	Y	1			
<i>Callis reticulata</i> ***	Netleaf hackberry	1, 5, 6, 7, 8, 11, 12		1	M	20	20	236	D	S	M	S	N	---	N	Y	N	80	300	N	N	Y	6		
<i>Cercis canadensis var. mexicana</i>	Mexican redbud	3, 8, 11		2	M	20	25	368	D	S	M	N	L	N	N	N	120	500	N	N	Y	1			
<i>Chilopsis linearis</i> ***	Desert willow	3, 5, 6, 7, 8		2	M	25	20	236	D	M	M	S	N	M	N	Y	N	120	300	Y	N	N	2,3,6		
<i>Ficus carica</i>	Fig		'Brown Turkey'	3	M	20	20	236	D	M	M	L	S	N	H	N	N	120	300	N	Y	N	1,2		
<i>Fraxinus anomala</i>	Single leaf ash	1, 11		2	M	20	25	368	D	M	M	N	---	N	N	N	120	500	N	Y	Y	1,6			
<i>Geoffroea decorticans</i>	Chilean palo verde			2	M	25	25	368	D	S	V	S	Y	---	Y	Y	120	500	N	N	N	4			
<i>Havardia mexicana</i> ***	Mexican ebony	1, 2, 5, 6, 7, 8, 10		1	M	25	25	368	D	M	L	Y	---	Y	Y	N	120	500	N	N	N				
<i>Leucaena retusa</i>	Golden leadball tree	5, 6, 7		1	M	20	20	236	D	M	L	N	---	N	Y	N	120	300	N	N	Y				
<i>Morus alba</i> (Female)	Fruiting, Contorted mulberry		'Unryu'	3	M	25	25	368	D	M	M	L	F	S	N	---	N	N	120	500	N	Y	N	1,2,7	
<i>Olneya tesota</i> ***	Desert ironwood			2	M	25	25	368	D	S	V	Y	M	Y	Y	120	500	Y	N	N	4				
<i>Parkinsonia microphylla</i> ***	Foothill palo verde	2, 5		1	M	20	20	236	D	S	V	Y	M	N	Y	Y	120	300	N	N	Y	6			
<i>Parkinsonia x sonorae</i>	Sonoran hybrid palo verde			1	M	20	20	236	D	S	V	Y	M	N	Y	Y	120	300	N	N	Y				
<i>Pistacia vera</i>	Pistachio			3	M	20	15	133	D	M	M	S	N	M	N	N	120	200	N	Y	Y	1,2			
<i>Prosopis glandulosa var. torreyana</i>	Western honey mesquite			1	M	20	20	236	D	M	V	L	Y	---	N	Y	N	120	300	Y	N	Y	6,8		
<i>Prosopis pubescens</i>	Screwbean mesquite	11		1	M	20	25	368	D	M	V	S	Y	---	N	N	N	120	500	N	Y	N	6		
<i>Prunus dulcis</i>	Almond			3	M	25	25	368	D	M	M	L	S	N	---	N	N	120	500	N	Y	N	1,2		
<i>Prunus mexicana</i>	Mexican plum	1, 8, 9		3	M	25	25	368	D	M	M	S	N	---	N	N	N	120	500	N	Y	N	1		
<i>Punica granatum</i>	Pomegranate			3	M	20	15	133	D	M	M	S	Y	---	N	N	N	120	200	N	Y	N			
<i>Quercus gambelii</i>	Gambel oak			2	M	25	25	368	D	M	M	S	N	M	N	N	120	500	N	Y	N	1,6			
<i>Sapindus saponaria var. drummondii</i> ***	Western soapberry			2	M	25	25	368	D	M	M	N	---	N	Y	N	120	500	N	Y	N	1			
Small Deciduous Trees																									
<i>Acer ginnala</i>	Amur maple			3	S	15	15	133	D	S	H	L	N	---	N	N	N	80	200	N	Y	Y	1,7		
<i>Cercis canadensis var. texensis</i>	Texas redbud	3, 8, 11	'Oklahoma'	2	S	15	20	236	D	S	M	N	L	N	N	N	80	300	N	Y	Y	1			
<i>Cercis occidentalis</i>	Western redbud			3	S	15	15	133	D	S	M	N	L	N	N	N	80	200	N	Y	Y	6			
<i>Condalia hookeri</i>	Brazilian bluewood			2	S	15	15	133	D	M	V	Y	---	N	N	N	80	200	N	Y	N				
<i>Havardia pallens</i>	Tenaza			2	S	15	15	59	D	M	L	N	---	N	N	N	80	100	N	Y	N				
<i>Rhus copallinum var. lanceolata</i>	Prairie flameleaf sumac	1, 11		2	S	15	20	236	D	M	M	N	L	N	N	N	80	300	N	Y	Y	1			
<i>Senegalia greggii</i>	Cat claw acacia			1	S	15	20	236	D	S	V	Y	L	N	N	N	80	300	Y	N	Y	6			
<i>Ulmus glabra</i>	Camperdown wych elm		'Camperdownii'	3	S	15	15	133	D	S	M	N	---	N	N	N	80	200	N	Y	N	Y	1,7,10		
<i>Ungnadia speciosa</i>	Mexican buckeye			2	S	10	15	133	D	S	M	N	---	N	N	N	80	200	N	Y	N				
<i>Vachellia constricta</i>	Whitelthorn acacia			1	S	15	15	133	D	M	V	Y	---	N	N	N	80	200	N	Y	N				
<i>Ziziphus jujuba</i>	Jujube			2	S	25	20	236	D	S	M	S	Y	H	N	N	N	80	300	N	Y	N	1,2		
Extra Large Evergreen Trees																									
<i>Eucalyptus camaldulensis</i> ***	Red river gum			2	X	55	45	1193	E	M	M	N	H	N	Y	Y	240	2100	N	Y	N	5			
<i>Eucalyptus rudis</i> ***	Desert gum			2	X	50	50	1473	E	M	M	N	H	N	Y	Y	240	2500							

CLV Preferred Tree List

KEY																								
Rating: environmental tolerance, water efficiency, diversity, maintenance needs, invasiveness, pathogen resistance Tree Size: Small (< 20 ft), Medium (20-29 ft), Large (30-45ft), Extra Large (>45ft) Tree Type: Deciduous, Evergreen, Semi-evergreen Growth Rate: Slow, Moderate, Fast Water Needs: Very Low, Low, Moderate, High Biogenic Volatile Organic Compounds: Low, Medium, High, or data not available - *** denotes street trees See Sheet 2 for Attribute Definitions	Comments: 1. Organic mulch recommended 2. Many cultivars 3. Potential diversity issues 4. Low environmental tolerances 5. Invasive species 6. Mojave native 7. Low drought tolerance 8. High pathogen susceptibility 9. Reduced longevity 10. Protected North or East facing microclimate necessary	Downtown District Use: 1. Historic Westside 2. Cashman 3. Medical 4. Market 5. Design 6. Gateway 7. 18b 8. Civic & Business 9. Resort & Casino 10. Fremont East 11. Founders 12. Symphony Park	Rating	Tree Size (S, M, L, X)	Height (average) (Feet)	Width (average) (Feet)	Coverage (Sq. Feet)	Tree Type (D, E, S)	Growth Rate (S, M, F)	Water Needs (V, L, M, H)	Excessive Litter (L, F, S)	Spines or Thorns (Yes or No)	Biogenic Volatile Organic Compounds (L, M, H)	Parking Lot Tree (Yes or No)	Street Tree (Yes or No)	Buffer Tree (Yes or No)	Minimum Soil Surface Area (Sq. Feet)	Minimum Soil Volume (Cu. Feet)	Tolerates Compacted Soil (Yes or No)	Compatible With Turf Grass (Yes or No)	Compatible With Overhead Utilities (Yes or No)	Comments		
Medium Evergreen Trees																								
<i>Acacia conacea</i> ***	Desert oak		2	M	20	25	368	E	M	L	L	N	L	Y	Y	Y	120	500	Y	N	Y			
<i>Acacia estrophiolata</i> ***	Ironwood		2	M	25	25	368	E	M	V	N	N	---	Y	Y	Y	120	500	Y	N	N			
<i>Acacia gerrardii</i> ***	Carsonvita wattle		2	M	25	25	368	E	S	L	N	N	---	Y	Y	Y	120	500	N	N	N			
<i>Acacia pendula</i> ***	Weeping acacia	1, 6	1	M	25	20	236	E	M	V	N	M	---	Y	Y	Y	120	300	Y	N	N			
<i>Acacia saligna</i> ***	Blue leaf wattle		3	M	25	20	236	E	S	H	L	N	---	Y	Y	Y	120	300	Y	N	N	5		
<i>Arbutus unedo</i>	Strawberry tree		3	M	20	20	236	E	S	H	N	L	---	Y	Y	Y	120	300	N	Y	Y	4,7,10		
<i>Arbutus x andrachnoides</i>	Marina strawberry tree	'Marina'	3	M	20	25	368	E	S	H	N	L	---	Y	Y	Y	120	500	N	Y	Y	1,4,7,10		
<i>Callistemon viminalis</i>	Weeping bottlebrush		3	M	20	20	236	E	M	M	N	H	---	Y	Y	Y	120	300	N	Y	Y	1		
<i>Eucalyptus spathulata</i>	Swamp malliee		2	M	20	25	368	E	M	L	N	---	Y	Y	Y	120	500	N	Y	Y				
<i>Juniperus osteosperma</i>	Utah juniper		2	M	20	20	236	E	S	L	N	---	Y	Y	Y	120	300	N	Y	Y	1,6			
<i>Pitoposum angustifolium</i> ***	Willow pitospermum	3, 5, 6, 7	1	M	25	15	133	E	M	L	N	---	Y	Y	Y	120	200	N	Y	N	4			
Small Evergreen Trees																								
<i>Acacia aneura</i> ***	Mulga acacia		1	S	15	15	133	E	S	V	N	M	---	Y	Y	Y	80	200	N	Y	Y			
<i>Acacia craspedocarpa</i>	Leather leaf acacia	5, 7	1	S	15	15	133	E	M	V	N	---	Y	N	Y	80	200	N	Y	Y				
<i>Ilex cornuta</i>	Burford holly		3	S	15	15	59	E	S	H	N	---	N	N	Y	80	100	N	Y	Y	1,2,7,10			
<i>Ilex vomitoria</i> ***	Yaupon holly	6, 8, 9	2	S	15	15	59	E	M	M	N	---	N	Y	Y	80	100	N	Y	Y	1,7			
<i>Ilex x altaciferensis</i>	Wilson holly		3	S	15	15	59	E	S	H	N	---	N	N	Y	80	100	N	Y	Y	1,7,10			
<i>Ilex x 'Nellie R. Stevens'</i>	Nellie R. Stevens holly		3	S	15	15	59	E	S	H	N	---	N	N	Y	80	100	N	Y	Y	1,2,7,10			
<i>Juniperus monosperma</i>	One seed juniper		2	S	15	15	133	E	S	L	N	---	N	N	Y	80	200	N	Y	Y	1,6			
<i>Laurus nobilis</i>	Bay laurel		2	S	15	15	133	E	M	M	N	L	---	N	Y	Y	80	200	N	Y	Y	1		
<i>Pistacia lentiscus</i> ***	Mastic tree		2	S	15	15	133	E	M	L	N	---	N	Y	Y	80	200	N	Y	Y	4			
<i>Quercus turbinella</i>	Desert scrub oak		1	S	15	15	133	E	S	L	N	---	N	N	Y	120	200	N	Y	Y	1,6			
<i>Rhamnus alaternus</i>	Italian buckthorn		3	S	15	15	133	E	S	M	N	---	N	N	Y	80	200	N	Y	Y	1,4,10			
<i>Sophora secundiflora</i> ***	Texas mountain laurel	3, 5, 7, 8	1	S	15	15	133	E	S	L	N	---	N	Y	Y	80	200	N	Y	Y				
<i>Xylosma congestum</i>	Xylosma		2	S	15	15	133	E	S	L	N	M	---	N	N	Y	80	200	N	Y	Y	1		
Large Semi-Evergreen Trees																								
<i>Pistacia atlantica</i>	Mt. Atlas mastic tree		3	L	30	30	530	S	M	M	S	N	---	N	N	Y	200	1000	N	Y	N	1		
<i>Prosopis alba</i> ***	Argentine mesquite		3	L	30	30	530	S	F	L	S	Y	---	N	Y	Y	200	1000	Y	N	N	2,3		
<i>Prosopis chilensis</i> ***	Chilean mesquite		3	L	30	30	530	S	F	L	S	Y	---	Y	Y	Y	200	1000	Y	N	N	2,3		
<i>Prosopis velutina</i>	Velvet mesquite		1	L	35	40	942	S	F	V	S	Y	---	N	Y	Y	200	1800	Y	N	N			
<i>Prosopis x alba</i> ***	Thornless hybrid mesquite	4	2	L	30	30	530	S	F	L	S	N	---	N	Y	Y	200	1000	Y	N	N	2,3		
<i>Prosopis x chilensis</i> ***	Thornless chilean mesquite		2	L	30	30	530	S	F	L	S	N	---	Y	Y	Y	200	1000	Y	N	N			
<i>Prosopis x 'Seedless AZT'</i> ***	Seedless hybrid mesquite		2	L	30	30	530	S	F	L	S	Y	---	Y	Y	Y	200	1000	Y	N	N			
<i>Quercus suber</i> ***	Cork oak		2	L	40	30	530	S	M	S	N	H	---	N	Y	Y	200	1000	N	Y	N			
<i>Quercus virginiana</i> ***	Cathedral live oak	8, 10, 11	2	L	30	25	368	S	M	M	S	N	H	---	N	Y	Y	200	700	N	Y	N	1,8	
<i>Quercus virginiana</i> ***	High Rise live oak	8, 10, 11	2	L	35	20	236	S	M	M	S	N	H	---	N	Y	Y	200	400	N	Y	N	1,8	
<i>Quercus virginiana</i> ***	Southern live oak	8, 10, 11	2	L	40	45	1193	S	M	M	S	N	H	---	N	Y	Y	200	2100	N	Y	N	1,2,3,8	
<i>Ulmus parvifolia</i> ***	Lacebark Elm		3	L	40	40	942	S	M	M	L	S	N	L	---	N	N	Y	200	1600	N	Y	N	1,2,3,7
Medium Semi-Evergreen Trees																								
<i>Cordia boissieri</i> ***	Texas olive	3, 11	1	M	20	15	133	S	S	M	N	---	N	N	Y	120	200	N	Y	N				
<i>Ebenopsis ebano</i> ***	Texas ebony	3, 11	2	M	25	20	236	S	S	V	Y	---	N	Y	Y	120	300	Y	N	N	8			
<i>Eysenhardtia orthocarpa</i> ***	Kidneywood	5, 6, 7	2	M	20	25	368	S	M	L	N	---	N	Y	Y	120	500	N	N	Y	1,2			
<i>Parkinsonia x 'AZT Thornless'</i>	Thornless hybrid palo verde	5, 12	1	M	25	25	368	S	M	V	N	M	---	Y	Y	Y	120	500	Y	N	N			
<i>Parkinsonia x 'Sonoran Emerald'</i>	Sonoran emerald palo verde		2	M	25	25	368	S	M	V	N	M	---	Y	Y	Y	120	500	Y	N	N	8		
<i>Parkinsonia x 'Desert Museum'</i>	Desert museum palo verde		3	M	25	25	368	S	M	V	N	M	---	Y	Y	Y	120	500	Y	N	N	3		
<i>Quercus x undulata</i>	Wavy leaf oak		1	M	20	20	236	S	M	L	N	---	N	N	Y	120	300	N	Y	Y	1,2,6			
Small Semi-Evergreen Trees																								
<i>Lycium walsonii</i>	Fam of the desert		3	S	15	15	133	S	M	L	N	---	N	N	Y	80	200	N	Y	Y	4			
<i>Sambucus nigra ssp. cerulea</i>	Blue elderberry		1	S	15	25	368	S	M	M	L	F	N	L	---	N	N	Y	80	500	N	Y	N	
<i>Vachellia gerrardii</i>	Red thorn		2	S	15	20	236	S	S	V	Y	---	N	N	Y	80	300	N	Y	Y				
<i>Vachellia rigidula</i>	Blackbrush acacia		1	S	15	15	133	S	S	V	Y	---	N	N	Y	80	200	N	Y	Y				

KEY					Rating	Tree Size	Height (average)	Width (average)	Coverage	Tree Type	Growth Rate	Water Needs	Excessive Litter	Spines or Thorns	Biogenic Volatile Organic Compounds	Yes or No Parking Lot Tree	Buffer Tree	Minimum Soil Surfa	Minimum Soil Volume	Tolerates Compacted Soil	Compatible With Turf Grass	Compatible With Overhead Utilities	Comments
Rating	environmental tolerance, water efficiency, diversity, maintenance needs, invasiveness, pathogen resistance	Tree Size: Small (< 20 ft), Medium (20-29 ft), Large (30-45ft), Extra Large (>45ft)	Tree Type: Deciduous, Evergreen, Semi-evergreen	Growth Rate: Slow, Moderate, Fast	Water Needs: Very Low, Low, Moderate, High	Biogenic Volatile Organic Compounds: Low, Medium, High, or data not available --	See Sheet 2 for Attribute Definitions																
Comments:	1. Locally prohibited species																						
Comments:	2. Many cultivars																						
Comments:	3. Potential diversity issues																						
Comments:	4. Low environmental tolerances																						
Comments:	5. Invasive species																						
Comments:	6. Nevada Noxious Weed																						
Comments:	7. Low drought tolerance																						
Comments:	8. High pathogen susceptibility																						
Comments:	9. Reduced longevity																						
Botanical Name	Common Name	District use	Cultivar	S, M, L, X	(feet)	(feet)	(sq. feet)	D, E, S	S, M, F	V, L, M, H	L, F, S	Yes or No	L, M, H	Yes or No	Yes or No	(sq. feet)	(cu. feet)	Yes or No	Yes or No	Yes or No	Comments		
TREES																							
<i>Acer negundo</i>	Box elder			4	L	30	30	530	D	F	M	L	S	N	M	N	N	200	1000	N	Y	N	2,7.9
<i>Acer palmatum var. atropurpureum</i>	Dwarf Japanese maple			4	S	10	10	59	D	S	H			N	M	N	N	80	100	N	Y	N	2,4.7
<i>Ailanthus altissima</i>	Tree of heaven			5	M	25	30	530	D	F	M			N	M	N	N	200	1300	N	N	N	4,5,7,8,9
<i>Albizia julibrissin</i>	Mimosa			5	M	25	30	530	D	F	M			N	M	N	N	120	1000	N	N	N	4,7,9
<i>Brachychiton acerifolius</i>	Illawarra flame tree			4	L	30	20	236	S	F	H			N	M	N	N	200	400	N	Y	N	4,7,9
<i>Brachychiton populneus</i>	Bottle tree			4	L	30	20	236	E	F	H			N	M	N	N	200	400	N	Y	N	4,7,9
<i>Calocedrus decurrens</i>	Incense cedar			4	S	15	10	59	E	S	M			N	L	N	N	80	100	N	Y	Y	4,7
<i>Cedrus deodora</i>	Deodar cedar			4	X	50	30	530	E	F	M			N	L	N	N	240	800	N	Y	N	4,7,9
<i>Celtis sinensis</i>	Chinese hackberry			4	L	30	35	722	D	M	M			N	L	N	N	200	1300	N	Y	N	4,9
<i>Cercis chinensis</i>	Chinese redbud			4	S	15	15	133	D	S	M			N	N	N	N	80	200	N	Y	Y	4,5
<i>x Chitalpa tashkentensis</i>	Chitalpa			5	M	20	20	236	D	M	M			N	M	N	N	120	300	N	N	N	4,7,8,9
<i>Corymbia papuana</i>	Ghost gum			4	X	50	40	942	E	M	L	S		N	H	N	N	240	1600	N	N	N	4,5
<i>Cupaniopsis anacardioides</i>	Carrotwood			4	L	30	25	368	E	M	M	S		N	H	N	N	200	700	N	Y	N	4,5,9
<i>Cuprocyparis leylandii</i>	Leyland cypress			5	L	30	20	236	E	F	M			N	L	N	N	200	400	N	Y	N	2,4,8,9
<i>Elaeagnus angustifolia</i>	Russian olive			5	L	30	35	722	D	M	M	L	Y		N	N	N	200	1300	N	N	N	5,7,8
<i>Elaeocarpus decipiens</i>	Japanese blueberry			4	M	25	25	368	E	M	H			N	N	N	120	500	N	N	N	4,7	
<i>Eriobotrya deflexa</i>	Bronze loquat			5	S	15	15	133	D	M	H	S	N	L	N	N	N	80	200	N	Y	Y	4,7,8,9
<i>Eriobotrya japonica</i>	Loquat			5	S	15	15	133	D	M	H	S	N	L	N	N	N	80	200	N	Y	Y	4,7,8,9
<i>Fraxinus angustifolia</i>	Narrow leaved ash			4	L	40	40	942	D	M	H	L	S	N	L	N	N	200	1600	N	N	N	7,8
<i>Fraxinus angustifolia ssp. oxycarpa</i>	Raywood ash			5	L	35	30	530	D	M	H	L	N	L	N	N	N	200	1000	N	N	N	3,4,7,8
<i>Fraxinus uhdei</i>	Shamel ash			5	L	35	40	942	S	F	H	L	S	N	L	N	N	200	1600	N	N	N	4,7,8,9
<i>Fraxinus velutina</i>	Velvet ash			4	L	40	35	722	D	F	H	L	N	L	N	N	N	200	1300	N	N	N	2,4,7,8
<i>Fraxinus velutina var. glabra</i>	Modesto ash		Modesto'	4	L	40	35	722	D	F	H	L	N	L	N	N	N	200	1300	N	N	N	4,7,8
<i>Fraxinus x velutina</i>	Fan-west ash		'Fan-west'	5	L	40	40	942	D	M	H	N	L	N	N	N	N	200	1600	N	N	N	2,3,4,7,8
<i>Gonjira parviflora</i>	Australian willow			4	M	25	20	236	E	M	M	N	M	N	N	N	120	300	N	N	N	4,9	
<i>Grevillea robusta</i>	Silk oak			4	L	30	20	236	E	M	M	N		N	N	N	200	400	N	N	N	4	
<i>Jacaranda mimosifolia</i>	Jacaranda			4	L	35	35	722	D	F	M			N	L	N	N	200	1300	N	N	N	4,7,9
<i>Koelreuteria bipinnata</i>	Chinese flame tree			4	L	30	30	530	D	S	M			N	N	N	200	1000	N	Y	N	4,7,9	
<i>Lagerstroemia indica</i>	Crape myrtle			4	S	15	15	133	D	S	M			N	L	N	N	80	200	N	Y	Y	2,4,7
<i>Leucaena leucocephala</i>	White lead tree			5	M	25	25	368	D	F	M	N		N	N	N	120	500	N	Y	N	4,5,9	
<i>Ligustrum lucidum</i>	Glossy Privet			5	M	25	25	368	E	M	M	F	S	N	L	N	N	120	500	N	N	N	4,7,9
<i>Magnolia grandiflora</i>	Southern magnolia			5	M	25	20	236	E	F	M	F	S	N	M	N	N	120	300	N	N	N	4,7,9
<i>Melia azadirach</i>	Chinaberry			4	L	30	30	530	D	F	M	S	N		N	N	200	1000	N	Y	N	5,9	
<i>Morus alba (Male)</i>	Fruitless Mulberry			5	X	55	55	1814	D	F	M	L	F	N		N	N	240	2900	N	N	N	1
<i>Olea europaea</i>	European Olive			5	L	25	30	530	E	M				N	L	N	Y	200	1000	N	Y	N	1
<i>Parkinsonia aculeata</i>	Mexican palo verde			5	M	20	20	236	D	F	L	F	S	Y	M	N	N	120	300	N	N	N	4,5,9
<i>Paulownia kawakami</i>	Sapphire dragon tree			5	S	15	15	133	D	F	M	H	L	S	N		N	100	200	N	N	N	5,8,7,9
<i>Pinus baltica var. albertica</i>	Alfian pine		Mondel'	5	X	60	45	1193	E	F	M	L	N		N	Y	240	2100	N	Y	N	3,8	
<i>Pinus canariensis</i>	Canary island pine			4	L	40	25	368	E	M	H	N	M	N	N	N	200	500	N	Y	N	4,7	
<i>Pinus thunbergiana</i>	Japanese Black Pine			5	S	15	15	133	E	M	M	L	S	N	M	N	N	80	200	N	N	N	4,8,9
<i>Platanus acerifolia</i>	London plane tree			4	X	55	40	942	D	F	H	L	N	H	N	N	240	1600	N	N	N	2,4,7,8	
<i>Platanus racemosa</i>	California sycamore			4	X	50	40	942	D	F	H	L	N	H	N	N	240	1600	N	Y	N	4,7,8	
<i>Platycladus orientalis</i>	Oriental arbutovitea			4	S	15	15	133	E	F	H			N	L	N	N	80	200	N	Y	Y	2,4,7,9
<i>Populus nigra var. italica</i>	Lombardy poplar			5	X	55	20	236	D	F	H	L	N		N	N	N	240	1300	N	Y	N	4,7,8,9
<i>Prunus caroliniana</i>	Carolina cherry laurel			5	M	25	20	236	E	M	H	F	S	N	L	N	N	120	300	N	N	N	4,7,8,9
<i>Prunus cerasifera</i>	Purple leaf plum			5	S	15	15	133	D	M	H	L	F	S	N		N	80	200	N	N	N	4,7,8,9
<i>Pyrus calleryana</i>	Ornamental pear		'Bradford'	4	L	30	20	236	D	M	M	L	S	N	L	N	N	200	400	N	Y	N	4,7,9
<i>Quercus agrifolia</i>	Coast live oak			4	L	30	30	530	E	S	M			N	H	N	N	200	1000	N	N	N	4,9
<i>Quercus wislizenii</i>	Interior live oak			4	L	30	25	368	E	S	H			N	H	N	N	200	700	N	N	N	4,9
<i>Robinia pseudoacacia</i>	Black locust			4	L	40	30	530	D	F	M	L	N		N	Y	H	200	1000	N	Y	N	2,8
<i>Robinia x ambigua</i>	Isaho locust			4	L	35	40	942	D	F	H	L	N		N	Y	H	200	1600	N	Y	N	2,4,7,8,9
<i>Salix matsudana</i>	Chinese willow			4	L	30	30	530	D	F	H	L	N		N	Y	H	200	1000	N	Y	N	4,7,8,9
<i>Salix x sepulcralis</i>	Weeping willow			5	L	40	35	722	D	F	H	L	N		N	Y	H	200	1000	N	Y	N	4,7,8,9
<i>Schinus molle</i>	California pepper tree			4	L	30	30	530	E	F	H	L	S	N	M	N	N	200	1000	N	Y	N	4,5,9
<i>Schinus terebinthifolius</i>	Brazilian pepper tree			4	M	25	25	368	S	F	H	L	S	N	M	N	N	120	500	N	Y	N	4,5,9
<i>Tamarix aphylla</i>	Athel			5	X	55	55	1814	E	F	M	L	N		N	Y	H	240	2900	N	N	N	1,5,6
<i>Tamarix spp.</i>	Salt Cedar			5	S	15	15	133	E	F	H			N	N	Y	H	80	200	N	N	N	1,4,5,6
<i>Thuja occidentalis</i>	Arborvitae			4	S	15	15	133	E	F	H			N	N	Y	H	80	200	N	N	N	4,7
<i>Thuja plicata</i>	Western red cedar			4	M	20	15	133	E	S	M			N	L	N	N	120	200	N	Y	Y	4,7
<i>Tipuana tipu</i>	Tipu tree			4	L	35	35	722	D	F	H	L	S	N	M	N	N	200	1300	N	N	N	4,5,7,9
<i>Tridax sebifera</i>	Chinese tallow tree			4	M	20	15	133	D	F	M	S	N		N	N	120	200	N	N	Y	5,7,9	
<i>Ulmus pumila</i>	Siberian elm			5	X	55	55	1814	D	F	M	L	S	N		N	Y	240	2900	N	N	N	5,8
<i>Vitex infolia</i>	Arabian lilac			4	S	15	15	133	D	F	M			N	N	N	80	200	N	Y	Y	4,7,9	
<i>Zakova sarata</i>	Sawleaf zakova			4																			