				Tree Chart to Help Organize P	lantings and Tree Care					
Native Cottonwood	Cottonwood Native	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Hybrid Cottonwood	Drought Tolerant	70-100 ft	3-5 ft	Ideal N-P-K ratios are 10-10-10 or 12-6-6	2x the water of an oak	full 6 plus hrs	prefer	70-100yr	20-30 feet apart	allergies from pollin
male selection of our native cottonwood	yes	Spreed	Soil Type	Soil PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	hybrid is a male only tree
241	44	50-70 ft	rich and moist/well drained	4.5-8.0	10-15 ft deep	80ft/50ft tree to tree	2-9 zone	yes		it is the female that produces the cotton seed
A.W.	<b>V</b>		45	<b>1</b>	*					
American Sycamore	American Sycamore	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Drought Tolerant	75-100	3-6 ft	a general purpose fertilizer with a balanced NPK ratio like 10-10-10 or 20-20-2	0 deep water 2x per month	full	resistant /tannins	50-200 plus yr	30 feet	ice wind damage
	NO	Spreed 75-100	Soil Type wet sandy soil	PH	Root Growth	Distance away	Zone 4-9 zone	Drought Tolerant NO	Row Spacing	susceptible and sidewalks
			wet and 300	no tolerance to salinity	invesive/top 2 ft	15 ft plus		NO	+	anu siuewan.s
	the rate to be a section	alar to M1 totals								
Plum	American Plum	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
r sudl	Drought Tolerant	10-20 feet	2-5 ft	10-10-10 fert.	water	full	food source	сне оран	12-24 feet	notes 3-5 years bear fruit
	yes	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	flower March to May
		15-25 feet	sandy/well drained	6-8 PH	Rapid	·	3-7 zone	yes	16 ft	
Sumac	Sumac	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Smooth Sumac	Drought Tolerant	9-15 ft	3-5 ft	10-10-10 fertilizer	minimal watering.	full	somewhat deer resistar 2	20 to 30 year	4-8 feet apart	
	yes	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	
Table Marie		9-15 ft	well drained	6.5-7.0 ph	quick-growing shrub that spreads through root suckers and rhizomes, forming dense thickets. Its root system is characterized by both a taproot and a network of shallow lateral roots	at least three feet away from the foundation	3-9 zone	yes	4-8 feet	
			The same of the sa							
Black Walnut	Black Walnut	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Drought Tolerant	50-75 ft	36-48 inches per year	10/10/10 N_P_K	watered every week with 3-5 gallons of water			150уг	25-30 feet	deer do not like the nuts
	yes	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	
		50-75 ft	well drained/fertile soil	58PH	tap root/hozontal past DL	50 ft	4a - 9a	yes	25-30 feet	
Austrian Pine	Austrian Pine	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Potted Austrian	Drought Tolerant	40-60ft	12-28 inches	slow release 10-10-10 or 14-14-14	every 2-4 days to start 6 weeks, at least 1 week after that	full	problem	80 yr	15-30 feet	for a wind breack a zig-zagged row
	yes	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	10 feet between trunks
		20-40 feet	sandy to clay/well drained	6-7.5 range	deep lateral roots Picture	15 ft	4-7 zone	yes	30-40 feet	
Jack Pine	Jack Pines	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
-	Drought Tolerant Yes	50 ft Spreed	2 Ft Soil Type	10-10-10 or 10-8-15 PH	seedlings moist but not soggy Root Growth	full Distance away	Deer/Rabbit Zone	80-100 Drought Tolerant	10-15 feet Row Spacing	1 to 2 inches of water per caliber inch per week
<b>.</b>	Year	оргсси	oon type		can develop a taproot, can reach 8.9 feet deep	Distance analy	Lone	_rought rounditt	now opacilig	· · · · · · · · · · · · · · · · · · ·
112		20-30 feet	DrySandy	5-7.5 sweet spot	majority within top 18 inches		2 to 8	Yes	16 feet	adapted to infrequent rainfall  Jack pines, like other pine species rely heavily on ectomycorrhizal (ECM) fungl This symbiotic relationship is crucial for the tree's growth and survival in nutrient-poor soils
										nutrient-poor soils

Elderberry	Elderberry Bush	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Lucistiy	Drought Tolerant	5-6ft	2 ft	high levels of organic matter beneficial	5-10 gallon per week	full	not a preferred food choice	10-20 years	6-8 feet	wind resistant
	yes	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	https://youtu.be/QY6Lhppgd9M
		5-12 ft	Loamy to sandy/sood drainage	5.5-6.5 ph	shallow / invasive	45ft	3-9 zones	yes	10-12 feet	
Red Cedar	Red Cedar trees	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	
Potted Red Cedar	Drought Tolerant yes	30-40 ft Spreed	12-24 inch Soil Type	spring 10-10-10 slow release 1# per 100 sq ft of root zone PH	deep water once a week/mutch 2-4 inch layer  Root Growth	full Distance away	limited Zone	500-800 mature 10-20 years	8-10 feet	toerant of salt spray/clay
	yes	10-20 ft	loam/sandy/clay well drained	can grow in each	aggressive root sys	Distance away 40ft	3 to 9	Drought Tolerant yes	8-12 feet	soil testing recommended to determine tree's needs
				4	100	Till reflect to the				
Potted Pinyon Pine	Pinyon Pine	Height	Grow Rate	Fertilizer	Water	Sun	Deer Resistant	Life Span	Plant Spacing	notes
	Drought Tolerant	15-60 ft	1-2 ft	pure stand or with Junipers	less than 20" of precipitation per yr.	min 6 hrs/full	not preferred food source	600 ys	10-20 feet	locate in dry locations on hills not lowlands where water collects
	yes 20-40 vr maturity	Spreed 15 ft	Soil Type well drained soil	PH 5.0-7.0 ph	Root Growth tap root 11" per year, rapid	Distance Away 20 feet	Zone 4-8 zone	Drought Tolerant ves with limits	Row Spacing	lowlands where water collects temp10 to over 100 degrees
Canal Canal	20-d y mauny	131	wer di sinte done	2,007 to par	Up you, a per you, spec	20 1001	a Garage	yes wan units		Mortality happens when hydraulic failure in transporting water and carbon starvation due to stomatal closure to save water
Hazelnut	Hazelnut American	Height	Grow Rate	Fertilizer	Water - deep	Sun	Deer resistant	Life Span	Plant spacing	notos
- rowedilut	Drought Tolerant	6-15 ft	Grow Nate 13-24 inches	10-10-10	water - deep young trees 1-2 weeks established trees 2-4 weeks	Sun full	no Deer resistant	30-50 years	15-20 feet	4 years to yield nuts
	yes	Spreed 8-15 ft	Soil Type	PH	Root Growth 2 ft shallow	Distance away 15 feet	Zone 4-9 zone	Drought Tolerant ves	Row Spacing 15 feet	spreed by Rhizones
Substitute Electric			dry or moist /clay/sandy/toam	6.2 - 7.2 ramge CaCO3 tolerance		-				
Hackberry Potted Hackberry	Hackberry Drought Tolerant	Height 80 ft	Grow Rate 2 ft	Fertilizer balanced 10-10-10 or 20-20-20	Water deep watering once per week/ check soil	Sun full	Deer resistant No	Life Span 150-200yr	Plant spacing 30-50 feet	causes high allergies
T Otted Huckberry	yes	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	messy berries and leaves
9.3		60 ft	clay cut growth rate root shallow	68 ph	10-20 ft/40ft wide / deep	15 Next buildings / 5 underground utilities	2 to 9	yes	30 feet	withstand wind Hackberry trees generally tolerate both alkaline and acidic conditions
Red Splendor Crabapple	Crabapple	Height	Grow Rate	Fertilizer	Water	Sun	Deer	Life Span	Plant spacing	notes
Manchurian Crabapple	Drought Tolerant	15-25 ft/ 10-15 yrs	12-24 ft	balanced 10-10-10 / 1-2 pounds per 100 sq ftof drip area	1-2 inches per week	full	on the menu 1st	40-60 years	10-15 feet	3-5 years to flower
	yes	Spreed 15-25 ft	Soil Type rich (parmy, well drained	PH 5.5-7.0 range	Root Growth Fibrous root system/not good for high winds	Distance away 10-15 feet	Zone 4-8 zone	Drought Tolerant yes	10-20 feet	attracks humingbirds  PH adjustment - add Sulfur to alkaline soit and Lime to acidic soils  Mulch 2-4 inch retain moisture suppress weeds and protect roots from cold
Black Hills Spruce	Black Hills Spruce	Height	Grow Rate	Fertilizer	Water	Sun	Deer	Life Span	Plant spacing	notes
Potted Black Hills Spruce	Drought Tolerant	30-60 feet	6 to 15 inches / 10 feet in 10 years	ratio 10-10-10/12-4-8 likes acidic soil best	1-2 inches per cal. inch	Full	Deer/Rabbit	90 years	15-20 feet	
	Yes	Spreed 15 to 25 ft	Soil Type well drained	PH 5.5 - 7.0 PH	Root Growth  10-15 feet from trunk/ tap root 3-6 feet	Distance away at least 25 ft	Zone 2-6 zones	Drought Tolerant Yes	Row Spacing 12-24 feet	
		15 to 25 ft	wees unaffed	3.3-/.UM	AV-10 rees men stuffet tigh Dot 3-9 feet	at t8351 ∠5 TL	2-0 ZONES	TES	142-24   HEET	
Rur Oak	Pur Oak	Hoidht	Crow Pate	Eartilizar	Water	Sun	Door registant	Life Span	Diant spacing	notes
Bur Oak Potted Bur Oak	Bur Oak Drought Tolerant	Height 50-100 ft	Grow Rate 21 inches	Fertilizer 12-6-6 or 12-4-6 are ideal	Water deep watering decrease in the fall and winter	Sun full	Deer resistant considered reistant	Life Span 200-300 years	Plant spacing 40-50 feet	https://www.youtube.com/watch?v=-ZrfONVTg-Q
	yes	Spreed 75 ft	Soil Type fertile soil/dry rocky	PH 5,5-8.0 PH / 7-7.5 preferred	Root Growth tap 14 ft 8 yrs/Lat 11 ft	Distance away at least 90 feet	Zone 3-8 zone	Drought Tolerant very yes	Row Spacing 40 feet	Deer damage by rubbing and browsing
		nev.	tertile solutify rocky	35-0u mr.//.3 preerro	ugy an 1.8 YEM AT 1.1 TT	of tredST 59 Feet	3-6 ZONE	very yes	len ieer	

Golden Current Bush	Golden Current Bush Drought Tolerant	Height 3-7 ft	Grow Rate 12-18 inches	Fertilizer 10-10-10/10-6-4	Water regularly, keep evenly moist	Sun Full	Deer not resistant	Life Span 10-20 years	Plant spacing 3-5 ft	does best when surrounded by mulch
	yes	Spreed 3-5 ft	Soil Type Sandy, Ioamy and even clay	PH 6.0 to 7.5 neutral to alkaline	Root Growth  Tap root 3-4 ft lateral roots 3-4 ft	Distance away Airflow	Zone 5-8 zones	Drought Tolerant yes		grows well under oaks fruit in 1 to 2 years Not self pollinating, requires 2 genetically different plants to produce fruit. Hummingbirds adore.
Chokecherry	Canada Red Chokeberry Drought Tolerant	Height less 30 ft	Grow Rate 12-18 inches	Fertilizer  10-10-10/16-16-16 applied at a rate of 4 oz per plant in spring	Water water deeply every 1-2 weeks in growing season	Sun Full	Deer resistant NO	Life Span 20-40 yr		During drought conditions may need
	yes	Spreed 10-20 ft	Soil Type moist/well drained/sandy/loamy/clay	PH 5.0 to 8.0 PH / ideal 6.0 to 8.0 PH	Root Growth Develops a taproot and Lateral root system	Distance away from buildings 10-15 feet	Zone 3-8 zone	Drought Tolerant yes	Row Spacing 10-15 feet	to water more frquently Rhizomesu pto 58,ft.aproot 3-6 feet Lateral roots up to 10 feet
Sumac Skunkbush	Sumac Skunkbush Drought Tolerant	Height 2-8 ft	Grow Rate 10-20 inches	Fertilizer general purpose	Water once established 1-2 weeks deep watering	Sun Full	Deer resistant some	Life Span 10-20 years	Plant spacing 2-3-5 feet apart	notes
	yes	Spreed 8 feet	Soil Type tolerates poor rocky soils/well drained	PH 5.5 to 8.0 PH	Root Growth rhizomes root zones	Distance away 10-20 feet	Zone 3-8 zone	Drought Tolerant yes	Row Spacing 10-20 feet	
			· ·							
Villosa Lilac	Lilac Villosa	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Drought Tolerant yes	10 ft Spreed	moderate Soil Type	fertilze balance slow release PH	once to twice a week deep 1-2 years to establish Root Growth	full Distance away	generally considered Zone	100 years Drought Tolerant	4-6 feet Row Spacing	
		6-10 ft	sandy, dry,porty drain	5.5-8.0 soil	non suckering shallow root system	3ft	3-7 zone	yes	5-10 feet	
Potted Rocky Mtn. Juniper	Rocky Mountain Juniper	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Rocky Mountain Juniper	Drought Tolerant yes	33 to 66 ft Spreed	1 ft Soil Type	10/10/2010 PH	1-2 wk/2-3 wk establish Root Growth	full Distance away	generlly considered Zone	70 or more years Drought Tolerant	3 to 6 ft Row Spacing	Problems Ice
		8-12 feet	dry/rocky/sandy	6.0 to 7.5 PH	3-5 feet deep and laterally 2-3 times height	no data avallable/ at least mature height	3-7 zones	yes/CaCo3 tol.	8 to 15 ft	6 wk establish
South Western White Pine	Southwestern White Pine	Heig+B7:I124ht	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Drought Tolerant Yes	40 to 90 ft Spreed	12 to 24 inches Soil Type	a balanced, slow-release fertilizer 10-10-10 PH	Low to Moderate Root Growth	full Distance away	Deer/Rabbit Zone	90 years Drought Tolerant	8 to 12 ft Row Spacing	
		40 ft	Well Drained	\$107.5	1st year 8" growth in depth	20-30 feet away	4 to 9	Yes	12 to 18 ft	
Northern Catalpa	Catopia Tree	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	
	Drought Tolerant Moderately	60 ft Spreed	1-2 ft Soil Type	10/10/2010 PH	10 gal per dia inch at 6"above ground Root Growth	full Distance away	no Zone	60 yr Drought Tolerant	16-20 feet Row Spacing	attrack humingbirds needs Boron/copper/zinc
	LAR	40 ft	moist well drained	5.5.7.0 ph	taproot 3-6 feet deep / 20-30 feet from trunk	20 feet	4-8 zone	Moderately	16-24 feet	if over fertilized flush with water
Red Oak	Northern Red Oak	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Drought Tolerant moderately	60-80 ft Spreed	24" per year Soil Type	slow release 10-10-10 spring PH	2-3 times per week 1st year/ 1 week 2nd yr Root Growth	minimum 6-8 hrs Distance away	generally considered Zone	200-300 years Drought Tolerant	8-18 feet Row Spacing	
		40-60 feet	loam, sandy loam, sandy clay	S.0 to 6.5 ph prefer slightly acidic	taproot several feet deep/1.5 to 3 x width canopy	50 feet away	3-8 zone	moderately	20-30 feet	

Married   Marr	Silver Maple	Silver Maple	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Marie   Mari		Drought Tolerant	49-82 ft	2 ft plus	10-10-10 or 16-4-8 NPK	2-3 gallons per inch of cal.	full	No	130	15 feet	
March   Marc	i	some what	Spreed	Soil Type		Root Growth	Distance away	Zone		Row Spacing	
Part	A A		40-60ft	moist soll/well drained	6.5 to 8.0 PH	shallow root sys/ 2-3 times DL	20 plus ft	3-9 zone	some what	15 feet minimum	
Property   Company   Com		N		0.0:	F .00				17.0	DI	
The column   The	Norway Spruce										
	i	no	Spreed		PH	Root Growth		Zone	Drought Tolerant	Row Spacing	not good in neut
Description			25 feet	well drain slightly acidic/ loamy, sandy	5.0-7.5 PH	shallow system 2-3 times canoopy	Greater than 15 Feet/20-25 recommended	3 to 7	no	20-25 feet	
Design House   10.2   1.0 - Toylor	Scotch Pine	Scotch Pine	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Snan	Plant spacing	notes
Total   State   Stat			60 ft	1 to 2 ft per year	slow release 3-1-2 or 15-5-10 do not over fertilize	1x week mmoist at 3"	full	Deer/Rabbit	500 years	10-20 feet	
Act	1	No		Soil Type	PH		Distance away		Drought Tolerant	Row Spacing	
Prought former  139 12 for any early 12 for any early 12 for any early 12 for any early 13 for 15 to 5 day, young from the form control of the former should be provided from the former should	V V		40 ft	sandy/gravelty// 4.5-6.5 PH	4.5 to 6.5 ph	4-5 tap 75	15ft	3-7 zones		16-20 feet	
Provide finance 138 12 feature part 10 50 50 50 5 5 5 5 pts page group on continue authors   Fall   Common heath to page   State   Sta	Lilac	Lilac Common Purple	Height	Grow Rate	Fertilizer		Sun	Deer	Life Span	Plant spacing	notes
yes Screek 66 Type PH Boot Ground Discover asky 2 min crossed PM 3-3 Heritage (\$ 15 threat width \$1.5 have yet \$1.5 have \$1.5	1	Describe Telescont	10.6	106-1	10 10 10 5 10 5		E-II		20.100	4.06	
American Bills Americ	1	Drought Tolerant		1-2 feet per year Soil Type	10-10-10 or 5-10-5 early spring						
American Em American Em President Converting	1	jus jus		Well drained high in organic matter	6.5-7.0 PH / time increases PH/	2-3 feet deep/ 1.5 times width	12 feet			15-Apr	
Drough Efferent Springer and Gener proglater watering 1.2 weeks most tool. Multius at least 6 fine direct gard day fire and deer resistant. 100 years or more 10-0-0 feet. Per protect on the profession of the protection of the pr											
Drough Efferent Springer and Gener proglater watering 1.2 weeks most tool. Multius at least 6 fine direct gard day fire and deer resistant. 100 years or more 10-0-0 feet. Per protect on the profession of the protection of the pr	American Elm	American Elm	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
periods Spread Soil bye PH Rood Growth Obstance away Zone Drought Tolerant Rood Growth Spring and mid-summer Spring Periods Spring Rood Spring Rood Rood Rood Rood Rood Rood Rood Roo		Drought Tolerant									
American Linden American Linde	1							_			
American Linden American Linden Mergit Grow Natur Fertilizer Water Sun Decreasistant Life Span Plant spacing Nature Geographic working 12 inches balanced 10-10-10 spring and mid summer deep regular working 12 veeks moist soil full work productively Redmond Linden Spring Plant spacing Nature Sun Description of the Colerado Blue Sprince yes after established 50-75 feet 12-24 in Inches per year Spring 10-10-10 or 12-4.8 inticonutrients-informagesium moderate water needs Full generally generally generally approach production of Spring Plant spacing Nature Sun Description National Spring Plant spacing Nature Sun Description National Spring Plant spacing National Spring Nature Sun Description National Spring Nature Sun Description National Spring	1	periods	Spreed	Soil Type	PH	HOOT Growth	Distance away	Zone	prought rolerant		
American Linden Height Grow Rate Festilizer Water Sun Deer resistant Life Span Plant spacing motes moderately may be allowed by a solid present the space of the	1		50-70 feet	loam or sandy loam	6.0-7.5 PH	shallow root systems	30-50 feet away	2-9 zones			
Drought Tolerant 60-80 feet 12 inches balanced 10-10-10 spring and mid summer deep regular watering 1-2 weeks moist soil full sun or partial shade not 150-200 years 30-50 feet may to july flowering moderately Redmond Linden Spreed Soil Type PH Root Growth Distance away Zone Drought Tolerant Rew Spacing moderately as 20-50 feet well-drained fertile soil/ Joann-sandy Joann 6,0-7.5 PH Taproot 3-6 feet / Juleral 30 feet diameter 15-20 feet away from structure 3-8 zones Redmond Linden 30-50 feet 15-20 feet from utilities  Potted Co. Blue Spruce Prought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing Colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-48 microautrients-iron/magnesium moderate water needs Full generally deer resistant Prought Tolerant Row Spacing Plant Spacing Plant Spacing Drought Tolerant Row Spacing Plant Spacing Plan											
Drought Tolerant 60-80 feet 12 inches balanced 10-10-10 spring and mid summer deep regular watering 1-2 weeks moist soil full sun or partial shade not 150-200 years 30-50 feet may to july flowering wasps attracked by sticky pol moderately Redmond Linden Spreed Soil Type PH Boot Growth Distance away Zone Drought Tolerant Rew Spacing wasps attracked by sticky pol moderately a 3-8 zones Redmond Linden 30-50 feet well-drained fertile soil/ comm-sandy loam 6,0-7.5 PH Taproot 3-6 feet /lateral 30 feet diameter 15-20 feet away from structure 3-8 zones Redmond Linden 30-50 feet 15-20 feet from utilities  Peted Co. Blue Spruce Drought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing Colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-48 microsuntrients-inor/magnesium moderate water needs Full generally deer resistant Purchage Processing P	American Linden	American Linden	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Redmond Linden Spreed Soil Type PH Root Growth Distance away Zone Drought Tolerant Row Spacing wasps attracked by sticky pol moderately and stracked by sticky pol moderately well-drained fertile soil/ Joann-sandy Joan 6.0-7.5 PH Taproot 3-6 feet /lateral 30 feet diameter 15-20 feet away from structure 3-8 zones Redmond Linden 30-50 feet 15-20 feet from utilities  Peted Co. Blue Spruce Drought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-48 micronutrients-iron/magnesium moderate water needs Full generally deer resistant Spreed Soil Type PH Root Growth Distance away Zone Drought Tolerant Row Spacing wasps attracked by stricky pol moderate water needs Full generally deer resistant Drought Tolerant Row Spacing Plant spacing Notes		Drought Tolerant									
20-50 feet well-drained fertile sol/ loam-sandy loam 6.0-7.5 PH Taproot 3-6 feet /lateral 30 feet diameter 15-20 feet away from structure 3-8 zones Redmond Linden 30-50 feet 15-20 feet from utilities  Potted Co. Blue Spruce Drought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing Colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-4-4 micronutrients-iron/magnesium moderate water needs Full generally deer resistant Spreed Soil type PH Root Growth Distance away Zone Drought Tolerant Row Spacing	1		Sprood	Sail Tuna		Post Crowth	Distance away	7000	Drought Tolors-*	Pour Spaci	warns attracked by sticky p-10-
30-50 feet well-drained fertile solf loam-sandy loam 6.0-7.5 PH Taproot 3-6 feet /lateral 30 feet diameter 15-20 feet away from structure 3-8 zones Redmond Linden 30-50 feet 15-20 feet from utilities  Potted Co. Blue Spruce Drought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing Colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-4-8 micronutrients-iron/magnesium moderate water needs Full generally deer resistant Spreed Soil Type PH Root Growth Distance away Zone Drought Tolerant Row Spacing	1	neamona cinaen	apreeu	SOR Type	rn	NOOL GIOWII	Distance away	Zune	moderately	now spacing	wasps attracked by Sticky pottin
Colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-48 microsurprisessum moderate water needs Full generally deer resistant of the control o			30-50 feet	well-drained fertile soil/ loam-sandy loam	6,0-7.5 PH	Taproot 3-6 feet /lateral 30 feet diameter	15-20 feet away from structure	3-8 zones	Redmond Linden	30-50 feet	15-20 feet from utilities
Colorado Blue Spruce yes after established 50-75 feet 12-24 inches per year Spring 10-10-10 or 12-48 microsurprisessum moderate water needs Full generally deer resistant of the control o	Potted Co. Blue Spruce	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Colorado Blue Spruce	yes after established	50-75 feet	12-24 inches per year	Spring 10-10-10 or 12-4-8 micronutrients-iron/magnesium	moderate water needs	Full	generally deer resistant	•		
And the street of the street o	1									Row Spacing	
			10-20 feet	Clay and Sanny soils / foamy soil	5.06.5 PH	snaucowwoe-spreading root system	zu-30 feet away	2-/ zones	yes arter established	1	

Part	Apricot										
## 15   19   19   19   19   19   19   19		Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span		notes
Table		once established	40.007								
Total   Tota			10-20 feet Sprood	young 10-20 inches older 8-10 inches	balanced 10-10-10 or 12-12-12 early spring drip line	Consistent 1-2 times a week young/decreases with age	Distance away	No Zono	40-150 years		-
The content of the			10-15 feet	well drained loamy soil slightly acidic	6.5-8.0 PH	taproot 3-6 feet deep 10-20 feet lateral	20-25 feet away from structure	5-8 zones some 3-4 even	once established	12-25 feet	
Part   Color				3			,				
Part   Color	Black Chokeherry	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Snan	Plant spacing	notes
Column	buck onoxeberry	generally considered	ricigit	Orownate			oun	Deer resistant	Elic Opuli	T turk sputing	notes
Comparison			3-10 feet	12-24 inches per year	foliage less fruit	newly planted do not over water	full to at least 6 hrs per day		20 years	4-6 feet apart	prefers consistently moist soil
Designation			Spreed	Soil Type	PH	Root Growth		Zone	Drought Tolerant	Row Spacing	
Table   Tabl			3-10 feet	well drained crucial loam/sandy/clay	5.1-6.5 PH	taproot 2-3 feet spreads by root suckers	not specified consider sun/air flow	3-8 zones	generally considered	12-14 feet	
Table   Tabl											
The control of the	Boxelder	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Application		yes	30-50 feet							10-15 feet	4
Making   Study Theory   Color for   Parties   Making   Parties   Parties   Making   Parties   Parties   Parties   Making   Parties   Par			Spreed	Soil Type							4
\$\frac{1}{2}\frac{1}	Alexa de		3U-4U feet	sandy, toamy, and clay soits	5.U-8.U PH max 6.5-7.5 preferred	Sharrow florous root system 3-5 feet deep 10-25 lateral	acteast 15-20 feet roots reach 25/40 feet in dia.	3-9 ZONE	yes	13-20 feet	
\$\frac{1}{2}\frac{1}			ST A ST								
\$\frac{1}{2}\frac{1}	Buffaloberry	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
Congress Direct Conference (Congress Congress Co				12-24 inches	Balanced NPK early spring and after flowering	every 2-3 weeks when established	full	Yes	25 years	4-6 feet apart	3-5 years reach full maturity
Compare Dought Second Integril Committee of Second Integral Committee of S			Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	thrives in dry alkaline and evan saline
Compase Design Section 1 Stagle Design Section 2 Stagl	247		8-14 feet	can adapt to a variety of soils	5.5-8.0 PH	Sucker root system forms a thicket	10 feet from buildings	3-7 zones	highly Tolerant	15 feet	soils
The contract of the contract o											
The 12-20 feet 1-2-20 miles with proper of the proper from the proper of	Caragana	Drought Tolerant	Height	Grow Rate		Water		Deer resistant	Life Span	Plant spacing	notes
Procedure to Consideration of Considerat		Yes	12-20 feet	1-3 feet	Balanced - slow release early spring	After established deep watering allowing for some drying	full, at least 6 hrs direct sunlight per day	Yes	80-140 years	1-10 feet	
Proced Reas    Consign Tourist   Note   Consig			Spreed	Soil Type			Distance away	Zone		Row Spacing	
Yes 2-10 feet moderate to fast balance 10-10-10 every 45 weeks in growing season planting 3-4 days, growing 5-7 days, writer 10-10 days Fill -68 hours direct our all least 1 See Feet Sone Processing Friedrick 1 Research 1		Control of the Contro	0-19 get	sandy, todiny and even nutritionary poor soils	5.U-8.U PH	उ तः वस्त्रमा Suckernig root system and seed dispersal	o-10 reet Strout De reasonable	z-/ Zones	Yes	[4-0 leet	1
Yes 2-10 feet moderate to fast balance 10-10-10 every 45 weeks in growing season planting 3-4 days, growing 5-7 days, writer 10-10 days Fill -68 hours direct our all least 1 See Feet Sone Processing Friedrick 1 Research 1				33							
Sorred Soil Type PH Rood Growth Detection away Zone Drought Tolerant Row Specing sociating best in moist burny polis 5.0-8.0 PH best moderately acidic to slightly base shallow, suckering root system at least 2.0 freet 3-8 zones Yes 3-8 feet Per South Physical Social S	With the second								17.0	T a	
Cotoneaster Drought Tolerant Height Grow Tate Fertilizer Water Sun Description of Special Solid PH Sun Plant spacing Notes Solid PH	Woods Rose	Drought Tolerant Vac	Height	Grow Rate						Plant spacing	notes
Ves 5-7 feet 12-18 inches per year Balanced slow release 10-10-10 in pring Water deeply 1-2 a week when established Full Yes 10-50 years 4-5 feet Spering Speried Soil Type PH RonG Growth Distance away Zone Drought Tolerant RonG Fow Soil Type 4-6 feet clay, loam and sand well drained key 5.0-7.5 PH slightly acidic to neutral 12-24 deepth, 2-3 width of canopy slow growing at least 18 inches 5-8 Zones Ves 5-10 feet    Ves	Woods Rose	Drought Tolerant Yes	Height 2-10 feet	Grow Rate moderate to fast	balance 10-10-10 every 4-6 weeks in growing season PH	planting 3-4 days, growing 5-7 days, winter 10-14 days	Full - 6-8 hours direct sun at least	Yes	10-15 years	3-5 feet	can handle most other types of soil
Spreed Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Life Span Rant spacing Rose Species Soil Type RonGrowth Distance away Zone Drought Tolerant Rose Species Soil Type PH RonGrowth Distance away Zone Drought Tolerant Rose Species Rose Soil Type RonGrowth Distance away Zone Drought Tolerant Rose Spacing Intelligent Rose Species Soil Type RonGrowth Upstance away Zone Drought Tolerant Rose Spacing Intelligent Rose Spacing Int	Woods Rose	Drought Tolerant Yes	Height 2-10 feet Spreed	Grow Rate moderate to fast Soil Type	balance 10-10-10 every 4-6 weeks in growing season PH	planting 3-4 days, growing 5-7 days, winter 10-14 days Root Growth	Full - 6-8 hours direct sun at least Distance away	Yes Zone	10-15 years Drought Tolerant	3-5 feet Row Spacing	can handle most other types of soil
Yes   5-7 feet   12-18 inches peryear   Balanced solve release 10-10-10 in pring   Water deeply 1-2 a week when established   Full   Yes   10-50 years   4-5 feet	Woods Rose	Drought Tolerant Ves	Height 2-10 feet Spreed	Grow Rate moderate to fast Soil Type	balance 10-10-10 every 4-6 weeks in growing season PH	planting 3-4 days, growing 5-7 days, winter 10-14 days Root Growth	Full - 6-8 hours direct sun at least Distance away	Yes Zone	10-15 years Drought Tolerant	3-5 feet Row Spacing	can handle most other types of soil
4-6 feet clay, loam and sand well drained key 5.0-7.5 PH slightly acidic to neutral 12-24 depth, 2-3 width of canopy slow growing at least 18 inches 5-8 Zones Ves 5-10 feet    Creen Ash	Woods Rose  Cotoneaster	Yes  Drought Tolerant	Height 2-10 feet Spreed suckering	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate	balance 10-10-10 every 4-6 weeks in growing season PH 5.0-8.0 PH best moderately acidic to slightly base Fertilizer	planting 3-4 days, growing 5-7 days, wither 10-14 days  Boot Growth  shallow.suckering root system  Water	Full - 6 - 8 hours direct sun at least Distance away at least 2-3 feet	Yes Zone 3-8 zones  Deer resistant	10-15 years Drought Tolerant Yes	3-5 feet Row Spacing 3-8 feet	can handle most other types of soil
Green Ash Drought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing New Yes 50-80 feet 4-6 feet per year slow release balanced 10-10-10/young frees + phosphous root consistently most well drained soil - Full at least 6 hours direct Yes 100 years 10-18 feet 5-10 feet growth with irrigation per year Spreed Soil Type PH Root Growth Distance away Zone Drought Tolerant Row Spacing fertilize lake April to July 1-2 lib per inch 3-5 offeet Lateral roots in upper 24 inches at least 20 feet 3-9 zones Yes 20 feet all nich rain per week or watering is needed. They can be even water is need at linch rain per week or watering is needed. They can be even water in seven the seven water in the control of the provided in the prov	Woods Rose  Cotoneaster	Yes  Drought Tolerant	Height 2-10 feet Spreed suckering Height 5-7 feet	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate 12-18 inches per year	balance 10:10:10 every 4-6 weeks in growing season PH S.0-8.0 PH best moderately acidic to slightly base  Fertilizer Balanced slow release 10:10:10 in spring	planting 3-4 days, growing 5-7 days, wither 10-14 days Root fromth shallow.suckering root system  Water Water deeply 1-2 a week when established	Full - 6 - hours direct sun at least Destance away at least 2-3 feet Sun Full	Yes Zone 3-8 zones  Deer resistant Yes	10-15 years  Drought Tolerant  Yes  Life Span  10-50 years	3-5 feet Row Spacing 3-8 feet  Plant spacing 4-5 feet	can handle most other types of soil
Green Ash Drought Tolerant Height Grow Rate Fertilizer Water Sun Deer resistant Life Span Plant spacing notes  Yes 55 80 feet 4-6 feet per year slow release balanced 10-10-100 young trees + phosphous root consistently most well drained soil - Full at least 6 hours direct Yes 100 years 10-18 feet 5-10 feet growth with irrigation per year  Spreed Soil Type PH Root Growth Distance away Zone Drought Tolerant Row Spacing fertilize lake April to July 1-2 libs per inch 3-5 offeet I dam, sand, clay and alkeline soils 6-0-6.0 PH at 6.1-9.2 chlosis yellowing of leaves tap root 3-6 feet lateral roots in upper 24 inches at least 20 feet 3-9 zones Yes 20 feet incharge with grant fertilizer need 3 inch rain per week or were water is need at inch rain per week or were water	Woods Rose  Cotoneaster	Yes  Drought Tolerant	Height 2-10 feet Spreed suckering Height 5-7 feet Spreed	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate 12-18 inches per year Soil Type	balance 10-10-10 every 4-6 weeks in growing season PH 5.0-8.0 PH best moderately acidic to slightly base  Fertilizer  Balanced slow release 10-10-10 in spring PH	planting 3-4 days, growing 5-7 days, wither 10-14 days Root forowth shallow.suckering root system  Water  Water  Water deeply 1-2 a week when established Root Growth	Full - 6 shours direct sun at heast Distance away at least 2-3 feet  Sun Full Distance away	Yes Zone 3-8 zones  Deer resistant Yes Zone	10-15 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant	3-5 feet Row Spacing 3-8 feet  Plant spacing 4-5 feet Row Spacing	can handle most other types of soil
Yes 5-9.80 feet 4-6 feet per year slow release balanced 10-10 (loyoung trees + phosphous root consistently moist veel drained soil - Full at least 6 hours direct. Yes 100 years 10-18 feet Spreed Soil Type - PH Root Growth Distance away Zone Drought 10-18 feet Spreed Soil Type - PH Root Growth Distance away I Zone Drought 10-18 feet Spreed Soil Type - PH Root Growth Distance away I Zone Drought 10-18 feet Spreed Soil Type - PH Root Growth I Spreed Soil Type -	Woods Rose  Cotoneaster	Yes  Drought Tolerant	Height 2-10 feet Spreed suckering Height 5-7 feet Spreed	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate 12.18 inches per year Soil Type (Jug, Ioam and sand well drained key	balance 10-10-10 every 4-6 weeks in growing season PH 5.0-8.0 PH best moderately acidic to slightly base  Fertilizer  Balanced slow release 10-10-10 in spring PH	planting 3-4 days, growing 5-7 days, wither 10-14 days Root forowth shallow.suckering root system  Water  Water  Water deeply 1-2 a week when established Root Growth	Full - 6 shours direct sun at heast Distance away at least 2-3 feet  Sun Full Distance away	Yes Zone 3-8 zones  Deer resistant Yes Zone	10-15 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant	3-5 feet Row Spacing 3-8 feet  Plant spacing 4-5 feet Row Spacing	can handle most other types of soil
Yes 50-80 feet 4-6 feet per year slow release balanced 10-10 flyoung trees + phosphous root consistently moist well drained soil - Full at least 6 hours direct Yes 100 years 10-18 feet 6-10 feet growth vibringation per year Spreed Soil Type - Spreed Soil Type - PH 10 Roor Growth Distance away Zone Drought Tolerant Roor Spreed Soil Type - PH 10 Spreed Soil Type - PH 10 Roor Growth Spreed Soil Type - PH 10 Roor Growt	Woods Rose  Cotoneaster	Yes  Drought Tolerant	Height 2-10 feet Spreed suckering Height 5-7 feet Spreed	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate 12.18 inches per year Soil Type clay, loam and sand well drained key	balance 10-10-10 every 4-6 weeks in growing season PH 5.0-8.0 PH best moderately acidic to slightly base  Fertilizer  Balanced slow release 10-10-10 in spring PH	planting 3-4 days, growing 5-7 days, wither 10-14 days Root forowth shallow.suckering root system  Water  Water  Water deeply 1-2 a week when established Root Growth	Full - 6 shours direct sun at heast Distance away at least 2-3 feet  Sun Full Distance away	Yes Zone 3-8 zones  Deer resistant Yes Zone	10-15 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant	3-5 feet Row Spacing 3-8 feet  Plant spacing 4-5 feet Row Spacing	can handle most other types of soil
35-50 feet loam, sand, day and alkaline soils 6.0-8.0 PH at 8.1-8.2 chlosis yellowing of leaves tap root 3-6 feet lateral roots in upper 24 inches at least 20 feet 3-9 zones Ves 20 feet of trunk diameter with granular fertilizer need 1 inch rear with granular fertilizer is need of trunk diameter with granular f	Cotoneaster	Prought Tolerant Yes  Drought Tolerant	Height 2-10 feet Spreed suckering Height 5-7 feet Spreed 4-6 feet	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate 12.18 inches per year Soil Type clay toam and soid well drained key	balance 10-10-10 every 4-6 weeks in growing season H 5.0-8.0 PH best moderately acidic to slightly base  Fertilizer  Balanced slow release 10-10-10 in spring H 5.0-7.5 PH slightly acidic to neutral	planting 3-4 days, growing 5-7 days, wither 10-14 days  Root from the Shallow Suckering root system  Shallow Suckering root system  Water  Water deeply 1-2 a week when established  Root Growth  12-24 depth, 2-3 width of canopy slow growing  Water	Full - 6 % hours direct sun at heast Detance away at least 2-3 feet  Sun Full Detance away at least 12-3 feet	Yes Zone Zone 3-8 zones	10-15 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant Yes	3-5 feet Row Spacing 3-8 feet  Plant spacing 4-5 feet Row Spacing 5-10 feet	can handle most other types of soil
need Jinch Tay can be water from the contract of the contract	Cotoneaster	Prought Tolerant Yes  Drought Tolerant	Height 2-10 teet Spreed systemin  Height 5-Teet A-6 feet  Height 5-0-00 feet	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate 12-18 inches per year Soil Type clay, loam and sand well drained key  Grow Rate 4-6 feet per year	balance 10:00:10 every 4-6 weeks in growing season PH 5.0-8.0 PH best moderately acidic to slightly base  Fertilizer Balanced stow release 10:10:10 in spring PH 5.0-7.5 PH slightly acidic to neutral  Fertilizer slow release balanced 30:40:10 young trees + phosphous root	planting 3-4 days, growing 5-7 days, wither 10-14 days Root fromth Shallow, suckering root system  Water  Water Water deeply 1-2 a week when established Root Growth 12-24 depth, 2-3 width of canopy slow growing  Water  Water consistently moist well drained soil -	Full - 6 & hours direct sun at heast Destance away at least 2-3 feet  Sun Full Destance away art least 18 inches  Sun Full Destance away art least 18 inches	Ves Zone 3-8-zones  3-8-zones  Deer resistant Ves 5-6-Zones  Deer resistant Ves	10-15 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant 10-50 years	3-5 feet Row Spacing 3-8 feet  Plant spacing 4-5 feet Row Spacing 5-10 feet	an handle most other types of soil  notes  6-10 feet growth with irrigation per year
	Cotoneaster	Prought Tolerant Yes  Drought Tolerant	Height 2-10 feet Spreed suckering  Hoight 5-7 feet Spreed 4-6 feet  Height 50-80 feet	Grow Rate moderate to fast Soil Type best in moist loamy soils  Grow Rate  12.18 inches peryear Soil Type clay toam and sond well drained key  Grow Rate 4-6 feet per year Soil Type	balance 10:10:10 every 4 6 weeks in growing season H H S:0-8.0 PH best moderately acidic to slightly base  Fertilizer Balanced slow release 10:10-10 in spring PH S:0-7.5 PH slightly a cidic to neutral  Fertilizer slow release balanced 10:10:10/poung trees + phosphous root phosphous root	planting 3-4 days, growing 5-7 days, wither 10-14 days  Root from the Shallow Suckering root system  Water  Water Water deeply 1-2 a week when established  Root Growth  12-24 depth, 2-3 width of canopy slow growing  Water  Water  Consistently moist well drained soit- Root Growth  Root Growth  Root Growth	Full - 6 & hours direct sun at heast Detance away at least 2-3 feet  Sun Full Detance away at least 12-3 feet  Sun Full Detance away at least 18 inches	Ves Zone 3-8 zones	10-15 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant Yes  Life Span 10-50 years Drought Tolerant Yes  Life Span 100 years Drought Tolerant	3-5 feet Row Spacing 3-8 feet Plant spacing 4-5 feet Plant spacing 5-10 feet Plant spacing 10-18	notes  notes 6-10 feet growth with Irrigation per year fertilize tale April to July 1-2 bis per inch

									,	
Honeylocust	Drought Tolerant Yes	Height 30-70 feet	Grow Rate 2-3 feet per year 30-40 years reach full height	Fertilizer balanced 10-10-10 early spring, drip line, slow-release	Water deeply once a week watch for signs of under and over	Sun Full at least 6 hrs direct daily	Deer resistant Yes	Life Span 60-125 years	Plant spacing 10-15, 30 feet	notes
	165	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	
		30-50 feet	well drained, loamy soil best/sandy, clay also	6.0-8.0 PH thrive best in slighty acidic to slightly alkaline	taproot 10-20 feet and lateral root system	at least 15 feet to 20 feet	3-9 zones	Yes	10-15 feet	
<b>举</b>										For optimal growth, a fertilizer with a 3-1-2 ratio (nitrogen, phosphorus, potassium) can be used
Limber Pine	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Yes									drought conditions make them
			slow-growing can take several hundred years	slow releaaase balanced 10-10-10 or 16-8-8 at drip line	1-2 days- 3 weeks/reduce frequency deeply 8-10" moist	Full - 6-8 hrs direct	Yes	over 1000 years	8-14' windbreak	susceptible to pine beetles white pine blister rust
		Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	brister rust
			well drained sandy, or loamy	6.0-7.0 PH	taproot 3-5 feet with lateral root system 2-3 X canopy width	15 feet	4-7A zones	Yes	15-20 feet	
Nanking Cherry	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Yes when established	6-10 feet Spreed	12-24 inches per year Soil Type	Balanced slow release in spring / 4-6 weeks through season PH	approx. 1 gallon per weekonce established Root Growth	8 hours full sun heavier fruit load Distance away	No Zone	20-30 years Drought Tolerant	6-10 feet Row Spacing	-
		10-15 feet/5-7 years	loamy soil best / sandy, clay soils w/drainage	slightly acdic to neutral 6.0-7.0	shallow root system good for areas with only 8" top soil	15-20 feet	2-7 zone	Yes when established	12-16 feet	1
Ponderosa Pine Potted Ponderosa	Drought Tolerant	Height 60-130 feet	Grow Rate	Fertilizer	Water	Sun Full	Deer resistant Yes	Life Span 300-500 years	Plant spacing 20-30 feet	notes pine needles absorb nitrogen from the air
rotted Poliderosa	yes but long droughts no	Spreed	Soil Type	slow release balanced avoid excessive nitrogen PH	1st 2 years deep water regularly Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	fertilze early spring or late summer
		25-30 feet	sandy, loamy, rocky and clay	6.0-7.0 PH with well drainage	Taproot 36 ft and lateral 100 ft root system	15-30 feet minimum	3-7 zone	yes but long droughts no	20-30 feet	avoid heat of summer and cold of winter
	4									is generally recommended over frequent shallow watering Mycorntizal Associations:Ponderosa pine roots form both ecto- and endomycorntizae, which are beneficial fungi that help the tree absorb nutrients and water.
Potted Juneberry	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	yes when established	10-20 feet Spreed	12-24 inches per year 6-10 yr mature height Soil Type	slow-released, balance 10-10-10 or 16-16-16 early spring PH	Root Growth	full Distance away	moderately Zone	30-60 years/6-10 maturity Drought Tolerant		-
To the second		6-20 feet	well drained loamy or sandy loam	5,0-7,0 PH	some varieties have taproof/ other deep seeking lateral roots	15-20 feet variety dependent	2-9 zone	yes when established	20-25 feet	
Potted Mtn. Mahagony	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	yes	3-30 feet	slow 8 feet in 6-8 years	slow release balanced early spring 10-10-10 or 20-20-20	deep watering 3-4 weeks after established	6-8 hour direct sun	some what	50-150 years	5-15 feet	curl-leaf mountain mahogany 700 years
		Spreed 4-12 feet	Soil Type well drained rocky or gravelly soils loan, sand, clay	PH 5.0-8.0 PH different varieties different requirements	Root Growth taproot3-15 feet lateral roots 30-50 feet from trunk	Distance away  data not available based on lateral roots approx 25	Zone 4-8 zones	Drought Tolerant	Row Spacing 15-18 feet	-
		4-12 Feet	wen utamed (Octy of greeny soils loan, sand, clay	a way Just address varieties afterent requirements	supports - 12 feet stateral roots six-so feet from trunk	uutu inu urvaniadee dased on laterar roots approx 25	1 4-8 zones	yes	12-18 feet	
Potted Quaking Aspen	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	moderate once established	Sn	Coil T	PH	prefers consisently moist soil well drained deep watering	full sun at least 6-8 hours	No Zono	50-150 years	10-12 feet	-
		Spreed	Soil Type	ин	Root Growth spreading root system hundreds of feet/ shallow 3-6 feet deep	Distance away roots can damage foundations several hundred feet	Zone 2-7 zones	Drought Tolerant moderate once established	Row Spacing 1 10-20 feet	1
			Carpon Marco		January Land					
Prairie Sky Poplar	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Yes	40-60 feet	3.5-5 feet per year	Slow release, balanced 20-20-20, early spring	deep watering and regularly first few years	full 6-8 hours direct sun light	No	30-50 years	8 feet	20-30 years maturity
		Spreed 10-20 feet	Soil Type well-drained clay and sandy soils	PH 6.0-7.5 PH prefer slightly acidic	Root Growth Taproot 3-6 feet deep lateral roots beyond canopy	Distance away 25 feet to 50 feet species vary	Zone zone 3	Drought Tolerant Yes	Row Spacing 10-20 feet	

Redosier Dogwood	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	No	7-9 feet	10-15 inches per year	slow release balanced in early spring	thrives in consistently moist soil	Full	seldom severely damaged	10-30 years	2-5 feet	
		Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	
		up to 12 feet	organic rich, medium to wet soils/ both sandy and clay	6.1-8.5 PH salt sensitive	spreads by stolons shallow 12-24 inches	3-5 feet	2-7 zones	No	20 feet	from evergreens in wind breaks
Sandcherry	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	Yes	2-10 feet	Medium reach full height in 3-5 years	Balanced slow release in early spring	consistent water first year/ moderate to low water conditions	Full	Yes	10-20 years	4-5 feet	
	Western Sandcherry variety	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	
TOTAL TELEVISION OF THE PERSON	Purple Leaf Sand Cherry variety	4-8 Feet	sany loam or loam	6.0-7.0 PH best in slightly acidic to neutral	spreading root system/ generlly 9-10 inches /some 8-12 feet	4-5 feet more is better with spreading root system	3-8 zones	Yes	5-8 feet	
AV.										Mulching around the base of the plant can help conserve moisture and regulate soil temperature.
Service Berry	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
,	yes once established	15-25 feet		balanced slow release early spring 10-10-10 or 5-10-5 not after August	newly planted 1st year soil moist not soggy/then deep 1-2 wks	Full	somewhat to No	30-60 years	10-15 feet	Allegheny serviceberry: medium-sized tree
	some species can reach 30-40 feet	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	
		15-Oct	well drained loamy or sandy loam	5.5-7.0 PH slightly acidic to neutral	taproot 2-3 feet and lateral spread 3-4 feet	15 feet 4-5 feet questionable	4-9 zones	yes once established	15 feet	Saskatoon serviceberry: 6-9 feet
			, ,							Autumn Brilliance Serviceberry: 20-25 feet
Siberian Elm	Drought Tolerant	Height	Grow Rate	Fertilizer	Water	Sun	Deer resistant	Life Span	Plant spacing	notes
	yes	50-70 feet	2-3 feet/ maturity 10-15 years	· as although	moist to establish 1st year then twice per week	Full	yes but not deer proof	30-50 years	16-22 feet	
,	,	Spreed	Soil Type	PH	Root Growth	Distance away	Zone	Drought Tolerant	Row Spacing	<b>-</b>
		35-50 feet	well drained loamy tolerate clay, sand	5.5 - 8.0 PH slightly acidic to alkaline preferred	shallow wide spreading root 2 to 3 times canopy width / 6-10 feet depth	60-90 feet	3-9 zone	ves	16-24 feet	
		War.								