

## **Southeastern U.S. Crataegus horticultural utility chart; explanation of abbreviations used in columns**

Column # 1= Species or entity. Some of these taxa are alternatively considered varieties of others on the list, in some texts. They are noted separately here because each has some horticultural value or distinction.

Column #2= Flowering time. Instead of months, which can vary with elevation and longitude, the appearance of flowers is rated in relation to leaf expansion. In “early” (e), flowers appear before leaves or when leaves are less than ½ expanded out of the bud. In “midseason” (m), flowers open when leaves are ½ to ¾ expanded. In “late” (l), flowers appear after leaves are fully expanded.

Column #3= Fruiting season. Months when fruit is mature and persistent on the twigs.

Column #4= Fruit size. If small (s), fruits average 5-10mm diam or length; if medium (m), fruits 10-15mm; if large (l), fruits 15-25mm.

Column #5= Fruit color, the normal mature color of fruit; green (g), yellow (y), orange (o) or red (r). If more than one symbol, the fruit can be a range between these

Column #6= Fruit showy, yes or no. Showy fruit may be large or abundant in Autumn (y-A), or persist into winter (y-W).

Column #7= Fruit value to birds. Rated as low (l), medium (m) or high (h) and dependent upon the size, succulence of flesh, and persistence on the branches.

Column #8= Fruit value to mammals (including humans). Same as above, but fruits of highest value are those with thickest and soft flesh, and largest sizes. They need not cling to branches; many fall quickly to the ground when mature.

Column #9= Leaf size. Small leaves are those with blades 1-4cm long; medium 4-7cm; large 7-12cm

Column #10= Bark showy or fire resistant. No (n) if neither; if bark is unusually scaly, it is noted as “gray-scaly”; if scales cause mottling of color and is showy, it is “mottled scaly”. In fire resistant bark (fr), the trunk is often thickened and furrowed or blocky, able to resist moderate grass fires, once the trunks are about 4cm diam

Column #11= Habit. Short shrubs (ss) are 1m or less; medium shrubs (ms) are 1-2m; tall shrubs (ts) are 2-3m; small trees (st) are 3-4m with a single trunk; medium trees (mt) may grow 5-8m.

Column #12= Thorn size. Short (S) thorns are 3cm or less; medium (M) are 4-5cm; long (L) are 5-10cm. After the hyphen follows a description of typical strength, slender (sl) or stout (st)

Column #13= Best in cool microclimates, yes or no. With species liking shade or moist ground, and with those native to higher elevations and more northern ranges, these are best kept in mesic or sheltered sites in the long, hot growing conditions like that found in the majority of the southeastern U.S.

Column #14= Tolerates sandy soils, yes or no.

Column #15= Tolerates dry soils, yes or no. Includes clay soils and thin soils over rock.

Column #16= Tolerates wet soils, yes or no.

Column #17= Roots may sprout, yes or no; these may sucker a bit in favorable sites, and may form colonies.

Column #18= Note about some significant trait

A Utility Chart for the Southeastern U.S. Hawthorns

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Species/entity	Flowering time	Fruit season	Fruit size	Fruit color	Fruit showy	Bird food	Mam. value	Leaf size	Bark showy or fire resist.	Habit	Thorn size	for cool sites	sandy soils	dry sites	wet sites	roots sprout	Note
<i>Crataegus aemula</i>	early	Sept-Oct	m	r	y-A	m	l	s-m	n	ts-st	L-sl	n	n	y	y	y	lvs lt. green
<i>Crataegus aestivalis</i>	early	May-July	l	r	y	m	h	s-m	gray-scaly	st	S-st	n	n	n	y	n	Mayhaw
<i>Crataegus alabamensis</i>	early	Aug-Sept	l	o-r	y-A	m	m	s-m	fr	st	S-sl	n	y	y	n	n	brs. droop
<i>Crataegus allegheniensis</i>	midseason	Sept-Oct	m	o-r	n	m	l	m	fr	ms-ts	M-sl	y	n	y	n	y	likes shade
<i>Crataegus aprica</i>	midseason	Sept-Oct	m-l	o-r	n	m	l	s	fr	st	M-sl	n	y	y	n	n	likes sun
<i>Crataegus ashei</i>	midseason	Sept-Oct	m-l	r	y-A	m	l	m	n	ts	L-st	n	n	y	n	n	vigorous
<i>Crataegus berberifolia</i>	midseason	Sept-Nov	m	r	n	m	l	s	n	st	L-st	n	n	y	y	n	floriferous
<i>Crataegus brachyacantha</i>	midseason	Sept-Oct	m	b	n	m	l	s	gray-scaly	st	S-st	n	n	n	y	n	fall color
<i>Crataegus buckleyi</i>	midseason	Sept-Oct	m	r	n	m	l	s	fr	st	M-sl	n	n	y	n	n	fall color
<i>Crataegus calpodendron</i>	late	Sept-Dec	s-m	r	y-W	h	l	m-l	n	ts	L-sl	y	n	n	y	n	last to flw.
<i>Crataegus chrysocarpa</i>	midseason	Sept-Oct	m	r	y-A	m	l	m	n	ts-st	M-st	y	n	y	n	n	circular lvs
<i>Crataegus coccinea</i>	early	Sept-Oct	m-l	r	y-A	h	m	l	n	st-mt	L-st	y	n	n	n	n	soft fruit
<i>Crataegus coccinioides</i>	midseason	Sept-Oct	l	r	y-A	h	m	l	n	ts-st	L-st	y	n	y	n	n	wide crown
<i>Crataegus collina</i>	early	Sept-Oct	m	g-r	n	m	l	s-m	n	ts-st	L-st	y	n	y	y	n	few frt
<i>Crataegus craytonii</i>	midseason	Sept-Oct	m	r	n	m	l	m	n	ts	M-sl	y	n	y	n	y	hairy lvs
<i>Crataegus crus-galli</i>	late	Sept-Nov	m	r	n	m	l	s-m	n	st-mt	L-st	n	n	y	y	n	common
<i>Crataegus dispar</i>	early	Aug-Sept	m	o-r	n	m	m	s	fr	ts-st	L-sl	n	y	y	n	n	bluish lvs
<i>Crataegus engelmannii</i>	midseason	Sept-Oct	m	r	n	m	l	s-m	n	st	L-st	n	n	y	n	n	shiny lvs
<i>Crataegus greggiana</i>	midseason	Sept-Oct	m	r	n	m	m	s	n	ms-ts	M-sl	n	n	y	n	n	Texan
<i>Crataegus harbisonii</i>	midseason	Sept-Oct	m-l	r	n	m	l	l	n	ts	L-st	y	n	y	n	n	robust
<i>Crataegus incilis</i>	early	Sept-Oct	s	g-r	n	m	l	s-m	n	ms-ts	S-sl	y	n	y	n	y	slender
<i>Crataegus intricata</i>	midseason	Sept-Oct	m	g-y-r	n	m	l	m	n	ms-ts	L-sl	y	n	y	n	y	variable frt
<i>Crataegus iracunda</i>	early	Sept-Nov	m	r	n	m	l	m	n	st	L-st	y	n	y	y	y	likes shade
<i>Crataegus lacrimata</i>	early	Aug-Sept	m	y-o-r	n	m	l	s	fr	ts-st	S-sl	n	y	y	n	n	brs. weep
<i>Crataegus lancei</i>	midseason	Sept-Oct	m	r	n	m	l	s	fr	st	M-sl	n	y	y	n	n	brs. droop
<i>Crataegus lassa</i>	early	Aug-Sept	m	y-o-r	n	m	m	s-m	fr	ts-st	M-sl	n	y	y	n	n	brs. droop
<i>Crataegus lepida</i>	midseason	Aug-Sept	m	y-o	n	m	m	s	n	ss	S-sl	n	y	y	n	y	dwarf
<i>Crataegus macracantha</i>	midseason	Sept-Dec	m	y-W	y	h	l	m	n	ts	L-st	y	n	n	y	y	thorny
<i>Crataegus macrosperma</i>	early	Sept-Oct	m	y-A	n	m	m	m	n	ts-st	L-st	y	n	n	y	y	soft fruit
<i>Crataegus margaretta</i>	midseason	Sept-Oct	s-m	y-r	n	m	l	s	n	ts-st	M-st	y	n	y	n	n	lvs. fanlike
<i>Crataegus marshallii</i>	midseason	Sept-Oct	s	r	n	h	l	m	mottled scaly	st	S-sl	y	n	n	y	n	lvs. lacy

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<i>Crataegus mollis</i>	early	Sept-Oct	m-l	r	y-A	m	m	l	n	mt	L-st	y	n	n	y	n	soft fruit
<i>Crataegus monogyna</i>	midseason	Sept-Oct	m	r	n	m	m	m	n	ts-st	S-st	y	n	n	y	n	exotic
<i>Crataegus munda</i>	midseason	Aug-Sept	m	o-r	n	m	m	s	fr	ss	M-sl	n	y	y	n	n	dwarf
<i>Crataegus nananixonii</i>	midseason	Sept-Oct	m	r	n	m	l	s	n	ss	S-sl	n	y	y	n	y	dwf. Texan
<i>Crataegus opaca</i>	early	May-July	l	r	y	m	h	m	gray-scaly	st	S-st	n	n	n	y	n	w. mayhaw
<i>Crataegus pennsylvanica</i>	midseason	Sept-Nov	m-l	r	y-A	m	m	l	n	mt	L-st	y	n	n	y	n	treelike
<i>Crataegus phaenopyrum</i>	late	Sept-Feb	s	r	y-W	h	l	m	n	mt	L-sl	y	n	n	y	n	fall color
<i>Crataegus pruinosa</i>	midseason	Sept-Nov	m	g-r	n	m	l	m	n	ts-st	L-st	y	n	y	n	y	likes shade
<i>Crataegus pulcherrima</i>	early	Aug-Oct	s-m	g-y-r	n	m	l	m	n	ts-st	M-sl	y	n	n	n	n	likes shade
<i>Crataegus punctata</i>	midseason	Sept-Oct	m-l	y-r	n	l	l	m	n	mt	L-st	y	n	n	y	n	high elev.
<i>Crataegus pyracanthifolia</i>	midseason	Sept-Nov	m	r	n	m	l	s	n	st	L-st	n	n	n	y	n	lvs. narrow
<i>Crataegus quaesita</i>	early	Aug-Sept	m	o-r	n	m	l	s-m	fr	ts-st	M-sl	n	y	y	n	n	brs. droop
<i>Crataegus ravenellii</i>	early	Aug-Sept	l	r	n	m	m	s-m	fr	st-mt	M-sl	n	y	y	n	n	soft fruit
<i>Crataegus reverchonii</i>	late	Sept-Nov	m	r	n	m	l	s	n	st	L-st	n	n	y	n	n	circular lvs
<i>Crataegus rubella</i>	midseason	Sept-Oct	m	r	n	m	l	m	n	ts	M-sl	y	n	y	n	y	oblong frt.
<i>Crataegus rufula</i>	early	May-July	l	r	y	m	h	s	gray-scaly	st	S-st	n	n	n	y	n	a mayhaw
<i>Crataegus sargentii</i>	midseason	Sept-Oct	s	g-y-r	n	m	l	m	fr	ts	M-sl	y	n	n	n	n	fall color
<i>Crataegus schuettei</i>	midseason	Sept-Oct	m	r	y-A	m	m	m	n	ts-st	L-st	y	n	n	y	y	soft fruit
<i>Crataegus segnis</i>	midseason	Aug-Oct	m	o-r	n	m	l	s-m	fr	st-mt	M-st	n	y	y	n	n	brs. droop
<i>Crataegus senta</i>	midseason	Sept-Oct	m	r	n	m	l	s-m	fr	ts-st	M-sl	n	y	y	n	n	brs. droop
<i>Crataegus sororia</i>	midseason	Sept-Oct	m	r	n	m	l	s-m	fr	ts-st	M-sl	n	y	y	n	n	brs. Curved
<i>Crataegus spathulata</i>	late	Sept-Feb	s	r	y-W	h	l	s	mottled scaly	ts-st	S-sl	n	y	y	y	n	fine texture
<i>Crataegus succulenta</i>	midseason	Sept-Dec	s-m	r	y-W	h	l	m	n	ts-st	L-st	y	n	n	y	y	soft fruit
<i>Crataegus tracyi</i>	midseason	Sept-Nov	m	r	n	m	l	m	fr	st	L-st	n	n	y	n	n	Texan
<i>Crataegus triflora</i>	midseason	Aug-Sept	m-l	o-r	n	m	m	m-l	n	ts	L-st	y	n	n	y	y	showy flws.
<i>Crataegus uniflora</i>	midseason	Sept-Oct	m	g-r	n	m	l	s	fr	ss-ts	L-sl	n	y	y	n	y	likes sun
<i>Crataegus venusta</i>	midseason	Sept-Nov	m	y-r	n	m	l	m	n	ms-ts	M-sl	n	n	y	n	n	likes rocks
<i>Crataegus viridis</i>	midseason	Sept-Feb	m	r	y-W	h	m	m	mottled scaly	st-mt	M-sl	y	n	n	y	n	treelike
<i>Crataemespilus canescens</i>	midseason	Sept-Oct	m	r	n	m	l	s-m	gray-scaly	ts	S-sl	n	n	n	y	n	AR Medlar
<i>Crataegus x nitida</i>	midseason	Sept-Dec	m	r	y-A	m	l	m	n	st-mt	M-st	y	n	n	y	n	wide crown
<i>Crataegus x nuda</i>	midseason	Sept-Dec	m	r	y-A	m	l	s	n	st	L-st	n	n	y	n	n	frts heavily