

## Summer Key for Trees

<b>1. Are the leaves less than 3mm wide, or resemble needles or scales? (For this question you can use a combination of the below leaves.)</b>	
Yes - Gymnosperms 3	No - Angiosperms 10
	<b>No!</b>
<b>3. Do the leaves resemble feathers?</b>	
Yes - Taxodium Distichum, Baldcypress Tree ID 12	No - 4
	
<b>4. Do the leaves have scales?</b>	
Yes - 8	No - 5
	

**5. Do the leaves resemble needles in clusters of 2 - 5?**

Yes - *Pinus*, Pine Tree ID 10



No - *Tsuga Canadensis*, Eastern Hemlock Tree ID 11

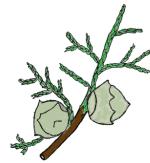


**8. Do the cones resemble small blue berries?**

Yes - *Juniperus*, Red-cedar, Cedar Tree ID 14



No - *Chamaecyparis*, Atlantic white-cedar, White cedar Tree ID 13



**10. Are the leaves alternate?**

Yes - 11



No - 13



**11. Are the leaves simple or compound?**

Simple - 12

Compound - 25



**12. Are the leaves evergreen?**

Yes - 37

No - 50



**No!**

**13. Are the leaves compound or simple?**

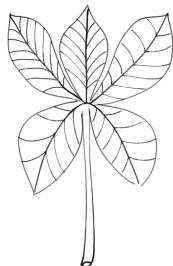
Compound - 14

Simple - 16

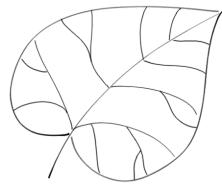


**14. Do leaves come off of the end of the stem, or different points?**Just the end - *Aesculus Sylvatica*, Buckeye Tree ID 81

Different points of the stem - 15

**15. How many leaflets are on the stem?**5 or more - *Fraxinus*, Ash Tree ID 90-91Less than 5 - *Acer negundo*, Boxelder Tree ID 80**16. Are the leaves heart shaped?**Yes - *Catalpa bignonioides*, Southern Catalpa Tree ID 92

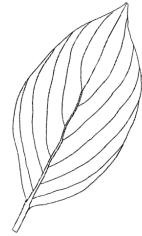
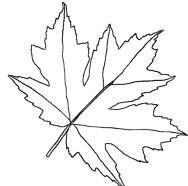
No - 18



**18. Are the leaves lobed?**

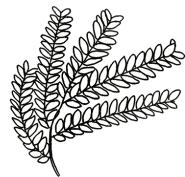
Yes - Acer, Maple Tree ID 77-79

No - Cornus Florida, Dogwood Tree ID 86

**25. Are the leaves compounded more than once?**

Yes - Gleditsia Tricanthos, Locust, Honeylocust Tree ID 71

No - 29

**29. Do the stems have thorns?**

Yes - 30

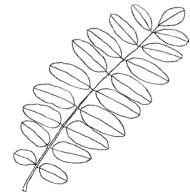
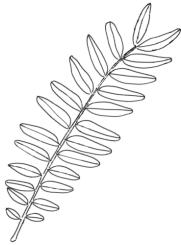
No - 31



**30. Do the stems have an even number of leaflets?**

Yes - Gleditsia Tricanthos, Honeylocust Tree ID 71

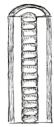
No - Robinia pseudo-acacia, Black locust, Locust Tree ID 72



**31. If stem is cut long ways, are there little chambers inside?**

Yes - Juglans, Walnut Tree ID 15-16

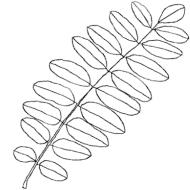
No - 32



**32. Are the leaves serrated all the way around?**

Yes - Carya, Hickory, Hockory-nut, Pecan Tree ID 17-24

No - Robinia pseudo-acacia, Black locust, Locust Tree ID 72



**37. If the stem is cut open, is there a star shape in the cross section?**

Yes - Quercus, Oak Tree ID 35-52

No - 38



**38. Is the terminal bud large and possibly wooly?**

Yes - Magnolia, Magnolia Tree ID 59-63

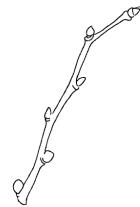
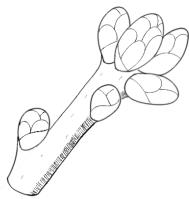
No - Ilex, Holly Tree ID 74-76



**50. Are leaves and buds clustered at the ends of branches?**

Yes - Quercus, Oak Tree ID 35-52

No - 51



**51. Are there any lobed leaves?**

Yes 93

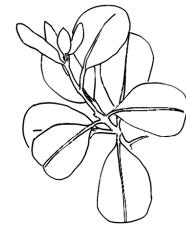
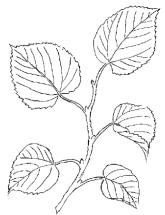
No - 52



**52. Do the leaves attach to 2 opposite side of the twig?**

Yes - 53

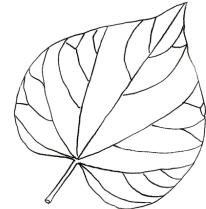
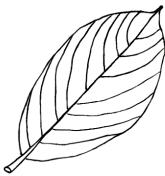
No - 71



**53. Do the leaves have 1 large vein going down the middle of the leaf blade?**

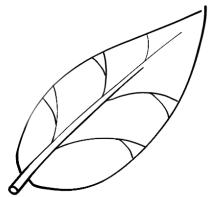
Yes - 57

No - 54

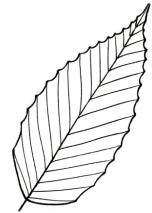


**54. Are the leaves smooth along the edges?**

Yes - 55

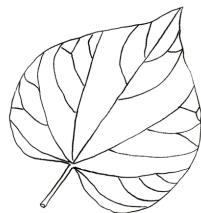


No - 56



**55. Are the leaves heart shaped, with more than 4 main veins near the base of the leaf?**

Yes - *Cercis Canadensis*, Eastern Redbud Tree ID 73



No - *Celtis*, Sugarberry, Hackberry Tree ID 56-57



**56. Are the leaves as wide as they are long?**

Yes - *Tilia Heterophylla*, White Basswood Tree ID 82



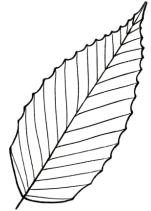
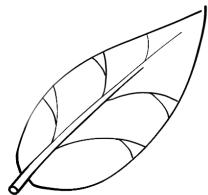
No - *Celtis*, Sugarberry, Hackberry Tree ID 56-57



**57. Are the leaves smooth all the way around the edges?**

Yes - 59

No - 60



**59. Are the leaves pinnately veined or palmately veined?**

Pinnate - *Diospyros virginiana*, Common persimmon  
Tree ID 88

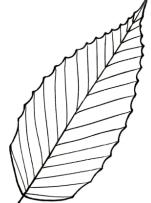
Palmate - *Celtis*, Sugarberry, Hackberry Tree ID 56-57



**60. Do the petioles, leaf stems, have at least 1 gland near the leaf blade?**

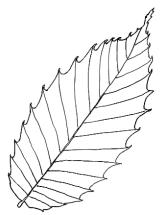
Yes - *Prunus*, Cherry, Black cherry, Wild cherry Tree ID 69

No - 61

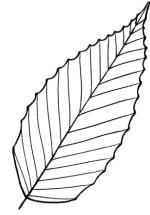


**61. Are the serrations teeth more than 5mm apart?**

Yes - 62

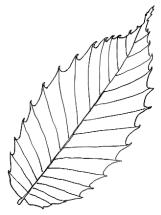


No - 63

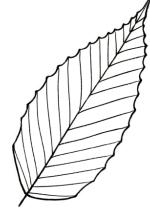


**62. Do the teeth have bristly tips?**

Yes - Castanea, Chestnut, Chinkapin Tree ID 33-34



No - Fagus grandifolia, Beech Tree ID 32



**63. If stem is cut long ways at the nodes, are there little chambers inside?**

Yes- Celtis, Sugarberry, Hackberry Tree ID 56-57



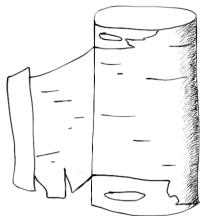
No - 64



**64. Does the bark peel off in large papery sheets?**

Yes - Betula, Birch Tree ID 28-29

No - 66



**66. Are the petioles, leaf stems, over 2.5 cm long?**

Yes - 67

No - 68



**No!**

**67. Are there buds at the end of the twigs?**

Yes - Amelanchier Arborea, Serviceberry, Sarservice, Shad-bush Tree ID 68

No - Tilia Heterophylla, White Basswood Tree ID 82



**68. Are the leaves noticeably uneven at the base?**

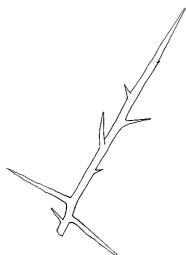
Yes - Ulmus, Elm Tree ID 53-55

No - 70

**70. Are the leaves doubly serrate or mostly once serrate?**Doubly serrate - *Carpinus caroliniana*, American hornbeam, Blue-beech, Ironwood Tree ID 30Mostly once serrate - *Ostrya virginiana*, Eastern hophornbeam Tree ID 31**71. Do the twigs have thorns?**

Yes - 74

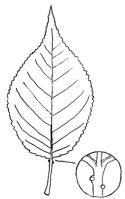
No - 76



**74. Do the petioles, leaf stems, have at least 1 noticeable gland near the leaf blade?**

Yes - Prunus, Plum Tree ID 69

No - Crataegus, Hawthorn, Thorn, Red haw, May haw Tree ID 70



**76. Are there little buds, without scars, directly above main buds on the twig?**

Yes - Halesia, Silverbell Tree ID 89

No - 78



**78. Are the leaf margins smooth along the edge?**

Yes - 82

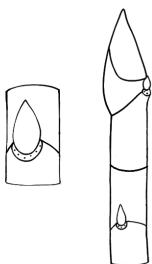
No - 84



**82. Are the stipular scars around the twig nodes?**

Yes - Magnolia, Magnolia Tree ID 59-63

No - 83

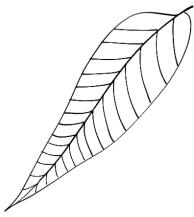
**83. Is there a true terminal bud present?**

Yes - Nyssa, Tupelo, Blackgum, Sourgum, Black tupelo, Watergum Tree ID 83-85

No - *Diospyros virginiana*, Common persimmon Tree ID 88**84. Are the leaves much longer than they are wide?**

Yes - 86

No - 85



**85. Do the leaves have fine hair on the bottom?**

Yes - Morus Rubra, Mulberry Tree ID 58

No - Populus, Cottonwood, Poplar Tree ID 26-27

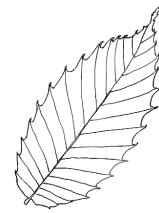
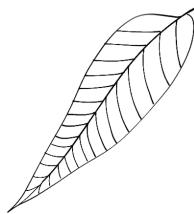


**No!**

**86. Are the leaves 4 or more times longer than they are wide?**

Yes - Salix Nigra, Willow Tree ID 25

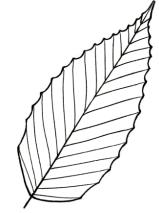
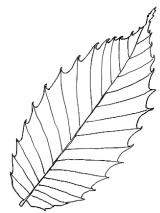
No - 87



**87. Are the teeth 5mm apart with bristly tips?**

Yes - Castanea, Chestnut, Chinkapin Tree ID 33-34

No - 88



**88. Do the twigs taste bitter or sour?**

Yes - 89

No - Ilex, Holly Tree ID 74-76



**No!**

**89. Do the twigs have a terminal bud?**

Yes - Prunus, Cherry, Black cherry, Wild cherry Tree ID 69

No - Oxydendrum arboreum, Sourwood Tree ID 87



**93. Are there any non-lobed leaves?**

Yes - 94

No - 96



**94. Are the leaves serrated or smooth?**

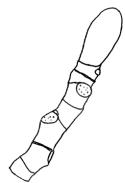
Smooth - Sassafras albidum, Sassafras Tree ID 65

Serrated - Morus Rubra, Mulberry Tree ID 58

**96. Are there stipular scars?**

Yes - 97

No - Liquidambar styraciflua, Sweetgum Tree ID 66

**97. Are the leaves pinnately veined or palmately veined?**

Pinnately - Liriodendron tulipifera, Yellow-poplar, Tuliptree Tree ID 64

Palmately - Platanus occidentalis, American sycamore Tree ID 67

