
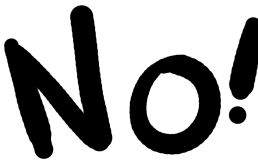

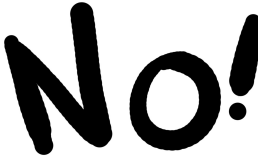
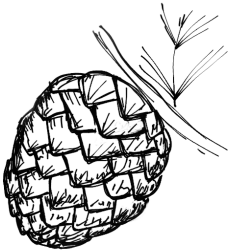











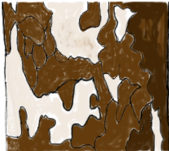




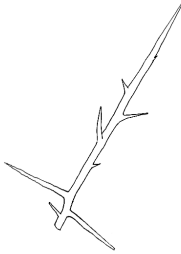










Winter Key for Trees


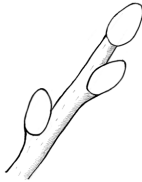

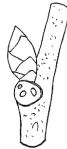


1. Are the leaves evergreen or deciduous?	
Evergreen 2	Deciduous 3
	
2. Are the leaves less than 3mm wide, or resemble needles or scales?	
Yes - Gymnosperms SUMMER KEY 3	No - Angiosperms SUMMER KEY 10
	
3. Does the tree produce cones?	
Yes - Taxodium, Baldcypress, Cypress Tree ID 12	No - 4
	


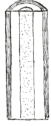




4. Are the leaf scars alternate?	
Yes 10	No - 5
	
5. Are the leaf scars opposite?	
Yes 7	No - Catalpa bignonioides, Southern Catalpa, Tree ID 92
	
7. Are the leaf scars heart shaped?	
Yes - Aesculus Sylvatica, Buckeye Tree ID 81	No 8
	



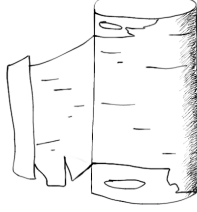

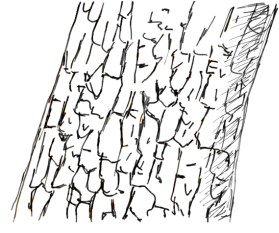

8. Are the leaf scars U-shaped?	
Yes - <i>Cornus florida</i> , Flowering dogwood Tree ID 86	No -9
	
9. Are there more than 3 bundle scars?	
Yes - <i>Fraxinus</i> , Ash Tree ID 90-91	No - <i>Acer</i> , Maple Tree ID 77-79
	
10. Is the exposed bark white on the trunk?	
Yes - <i>Platanus occidentalis</i> , American sycamore Tree ID 67	No 11
	





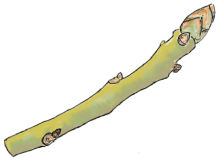

11. Does the tree have thorns?	
Yes 12	No 17
	
12. Are the thorns paired at the nodes?	
Yes - Robinia pseudoacacia, Black locust Tree ID 72	No 13
	
13. Are there thorns at the end of the branches?	
Yes - Prunus, Plum Tree ID 69	No - 15
	







15. Are the thorns usually 2 or 3 branched?	
Yes - <i>Gleditsia Tricanthos</i> , Honeylocust Tree ID 71	No - <i>Crataegus</i> , Hawthorn Tree ID 70
	
17. Are the leaf scars only on 2 sides of the twig?	
Yes 18	No 30
	
18. Are there more than 3 bundle scars in each leaf scar?	
Yes 20	No - 22
	




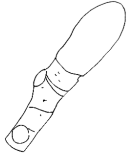

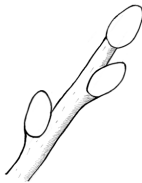
20. Are the buds about an inch long with 8 or more scales?	
Yes - <i>Fagus grandifolia</i> , American beech, Beech Tree ID 32	No 21
	
21. Are the bundle scars numerous, often forming an ellipse?	
Yes - <i>Morus Rubra</i> , Mulberry Tree ID 58	No - <i>Ulmus</i> , Elm Tree ID 53-55
	
22. Is there only 1 bundle scar?	
Yes - <i>Diospyros virginiana</i> , Common persimmon Tree ID 88	No 23
	





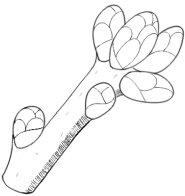

23. If the stem is cut long ways at the nodes, are there little chambers inside?	
Yes - Celtis, Hackberry, Sugarberry Tree ID 56-57	No 24
	
24. Is there a long and slender terminal bud?	
Yes - Amelanchier Arborea, Serviceberry, Shadbush, Service Tree ID 68	No 25
	
25. Are the twigs Reddish Brown?	
Yes- Cercis canadensis, Eastern redbud Tree ID 73	No 26
	



26. Are there pollen bearing catkins?	
Yes 28	No 29
	
28. Is the bark of the tree papery, with terminal buds on the twigs?	
Yes - Betula, Birch Tree ID 28-29	No - Ostrya virginiana, Eastern hophornbeam Tree ID 31
	
29. Is the bark rough?	
Yes - Ulmus, Elm Tree ID 53-55	No - Carpinus caroliniana, American hornbeam, Blue-beech, Ironwood Tree ID 30
	

30. Is there only 1 bundle scar?	
Yes 31	No 34
	
31. Do the small twigs look like spurs?	
Yes - Ilex, Holly Tree ID 74-76	No 32
	
32. Are the twigs bright yellow/green?	
Yes - Sassafras albidum, Sassafras Tree ID 65	No 33
	

33. Are the buds dark brown?	
Yes - Diospyros virginiana, Common persimmon Tree ID 88	No - Oxydendrum arboreum, Sourwood Tree ID 87
	
34. If the stem is cut long ways, are there little chambers inside?	
Yes 35	No 39
	
35. Are those chambers empty or filled?	
Empty - Juglans, Walnut Tree ID 15-16	Filled - 36
	

36. Are there more than 5 bundle scars?	
Yes 37	No - Nyssa, Tupelo, Black gum, Sourgum, Black tupelo, Watergum Tree ID 83-85
	
37. Are the terminal buds large and wooly?	
Yes - Magnolia, Magnolia Tree ID 59-63	No - Liriodendron tulipifera, Yellow-poplar, Tuliptree Tree ID 64
	
39. Are there multiple bud scales	
Yes 41	No - Salix, Willow Tree ID 25
	

41. Are the buds brownish-green and shiny?	
Yes - Liquidambar styraciflua, Sweetgum Tree ID 66	No 42
	
42. If the stem is cut cross ways, is it round, or nearly so?	
Yes 48	No 43
	
43. Are the buds clustered at the tip of the twigs?	
Yes - Quercus, Oak Tree ID 35-52	No 44
	

44. Are there 3 or less bundle scars?	
Yes - Populus, Cottonwood, Poplar Tree ID 26-27	No - Carya, Hickory, Hickory-nut Tree ID 17-24
	
48. Are there more than 3 bundle scars?	
Yes - Rubra, Mulberry Tree ID 58	No - Prunus, Cherry Tree ID 69
