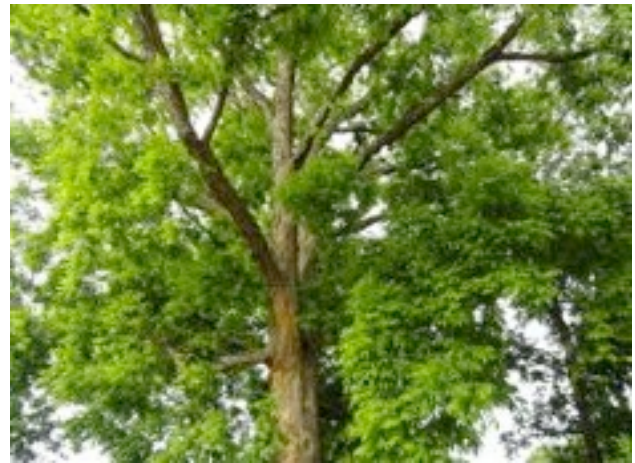


Station 1



1. What is the scientific name of this species?
2. What is the common name of this species?
3. What is the fruiting structure of this species called?
4. What does the Latin species name mean?
5. Briefly describe what happened to this species, starting in 1904. (2pts)

Station 2



6. What is the scientific name of this species?

7. What is the common name of this species?

Match the descriptor to the appropriate sample (some will match more than one descriptor, each descriptor has at least one match)

8. Pinnately lobed
9. Palmately lobed
10. Pinnately compound
11. Palmately compound
12. Alternate
13. Opposite
14. Asymmetrical leaf base
15. Lanceolate
16. Entire
17. Elliptical
18. Spatulate
19. Serrate
20. Double serrate



Station 3



21. What is the scientific name of this species?
22. What is the common name of this species?
23. Is this species used commercially for its nuts?
24. The common name for this species' genus comes from which Native American tribe's language?
25. Several members of the *Pinus* genus require what event to allow their seeds to germinate?

Station 4



26. What is the scientific name of this species?
27. What is the common name of this species?
28. This species is dioecious, what does that mean?
29. Where is this species native?
30. What is a dichotomous key? (2pts)

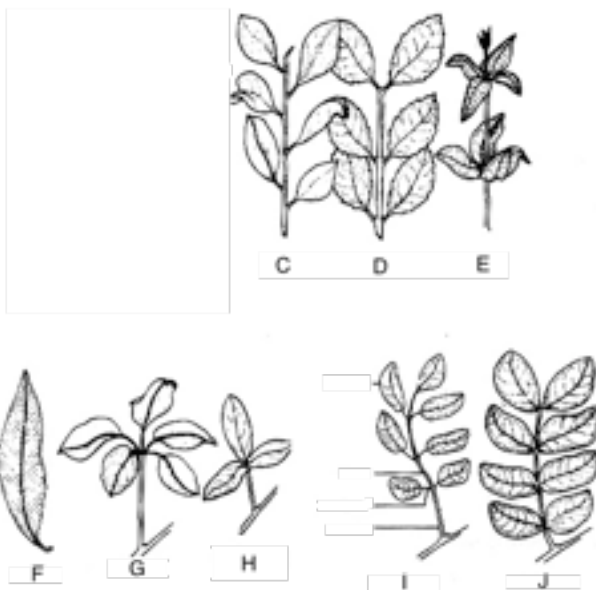
2013 Clio Invitational Station 5

Forestry



31. What is the scientific name of this species?
32. What is the common name of this species?
33. What is the flower structure of this species known as?

Match the leaf type



- 34 - palmately compound
- 35 - even-pinnately compound
- 36 - simple
- 37 - whorled
- 38 - alternate
- 39 - odd-pinnately compound
- 40 - opposite
- 41 - palmately trifoliate

Station 6



42. What is the scientific name of this species?
43. What is the common name of this species?
44. In colonial times, for what were the twigs of this species used?
45. What type of medicinal substance do the leaves and bark of this species produce?
46. What is the primary difference between hardwoods and softwoods? (2pts)

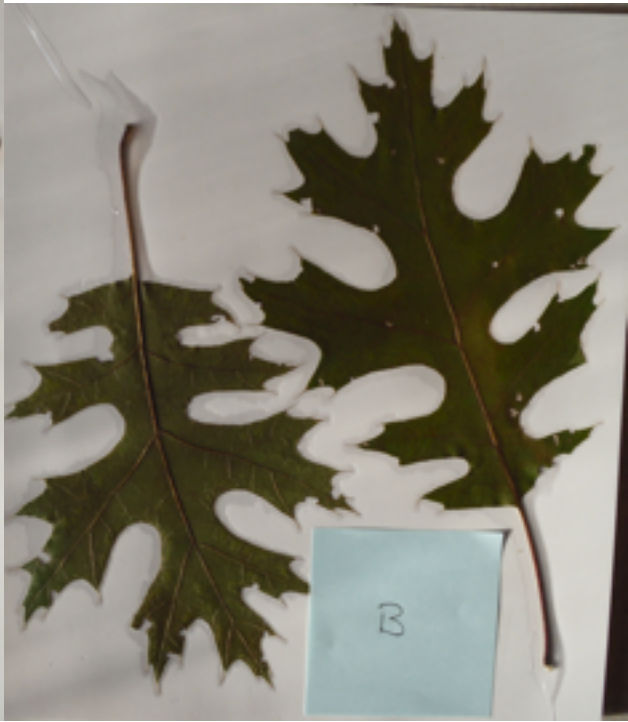
Station 7

The samples at this station are all from the same genus.

47. What is the scientific name of the genus?

48. What is the common name of the genus?

49-56. Give the scientific and common name of samples A - H. You can leave off the genus name.



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Forestry



Station 8



57. What is the scientific name of this species?

58. What is the common name of this species?

On the *Acer sacharinum* leaf sample, match the labelled leaf parts to their name:

- 59. petiole
- 60. midrib
- 61. margin
- 62. sinus
- 63. veins
- 64. lobe



Station 9



65. What is the scientific name of this species?

66. What is the common name of this species?

67. Why did early loggers tend to leave this tree uncut?

68. What is a 'mast year' for a tree species?
(2pts)

Station 10



69. What is the scientific name of this species?
70. What is the common name of this species?
71. Why does this species need to be the over story species in an area to survive?
72. What does the common name of this species mean in Algonquin?
73. What is the lowest temperature this species can tolerate (in Centigrade)?

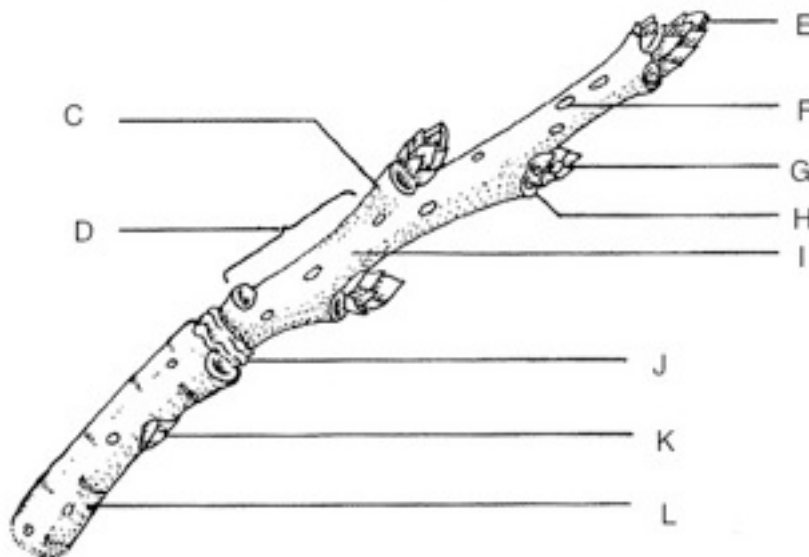
Station 11



- 74. What is the scientific name of this species?
- 75. What is the common name of this species?
- 76. What is the scientific name for the fruit structures of this species?

Match the number

Parts of a Winter Twig



- 77 lenticle
- 78 current year's wood
- 79 dormant wood bud
- 80 last year's wood
- 81 node
- 82 terminal bud
- 83 leaf scar
- 84 internode
- 85 girdle scar
- 86 lateral bud

Station 12



87. What is the scientific name of this species?
88. What is the common name of this species?
89. How would you describe (scientifically) the leaf sample on the left of the card?
90. What is characteristic of the *inermis* subspecies of this tree?
91. Why are the legumes produced by this tree valuable to cattle production?

Station 13



92. What is the scientific name of this species?
93. What is the common name of this species?
94. Why would you not want to step on the fruiting structure of this species in your bare feet?
95. What is currently threatening the trees of the *Fraxinus* genus?

Station 14



96. What is the scientific name of this species?
97. What is the common name of this species?
98. What scientific term describes multiple leaf shapes on the same tree?
99. This species has been used in several food products. Name a hot drink, a cold drink and a seasoning in which it has been used (1 pt each).

Station 15



100. What is the scientific name of this species?
101. What is the common name of this species?
102. What is the scientific term for the fruiting structure of this species?
103. Which Native Americans used this species to make flutes in about 650 AD?

Station 16



104. What is the scientific name of this species?
105. What is the common name of this species?
106. Why is this species' wood excellent for carving and boat building?
107. What feature of this species makes them desirable to fishermen? (2pts)

Station 17



108. What is the scientific name of this species?
109. What is the common name of this species?
110. What do the fruits of this species contain that make them poisonous to cattle?
111. How many times has this species' namesake lost on the field to the University of Michigan in the last 10 college football seasons?