

Indiana 4-H/FFA Forestry CDE Answer Choices

Leaves

101. American basswood (<u>Tilia americana</u>)	128. Largetooth/Bigtooth aspen (<u>Populus grandidentata</u>)
102. American beech (<u>Fagus grandifolia</u>)	129. Mockernut hickory (<u>Carya tomentosa</u>)
103. American elm (<u>Ulmus americana</u>)	130. Northern catalpa (<u>Catalpa speciosa</u>)
104. Bitternut hickory (<u>Carya cordiformis</u>)	131. Northern red oak (<u>Quercus rubra</u>)
105. Black cherry (<u>Prunus serotina</u>)	132. Ohio buckeye (<u>Aesculus glabra</u>)
106. Black gum/Black tupelo (<u>Nyssa sylvatica</u>)	133. Osage-orange (<u>Maclura pomifera</u>)
107. Black locust (<u>Robinia pseudoacacia</u>)	134. Persimmon (<u>Diospyros virginiana</u>)
108. Black maple (<u>Acer nigrum</u>)	135. Pignut hickory (<u>Carya glabra</u>)
109. Black oak (<u>Quercus velutina</u>)	136. Pin oak (<u>Quercus palustris</u>)
110. Black walnut (<u>Juglans nigra</u>)	137. Quaking aspen (<u>Populus tremuloides</u>)
111. Black willow (<u>Salix nigra</u>)	138. Red maple (<u>Acer rubrum</u>)
112. Blue beech (<u>Carpinus caroliniana</u>)	139. Red mulberry (<u>Morus rubra</u>)
113. Boxelder (<u>Acer negundo</u>)	140. Red pine (<u>Pinus resinosa</u>)
114. Bur oak (<u>Quercus macrocarpa</u>)	141. River birch (<u>Betula nigra</u>)
115. Butternut (<u>Juglans cinerea</u>)	142. Sassafras (<u>Sassafras albidum</u>)
116. Chestnut oak (<u>Quercus prinus</u>)	143. Scotch pine (<u>Pinus sylvestris</u>)
117. Chinquapin oak (<u>Quercus muhlenbergii</u>)	144. Shagbark hickory (<u>Carya ovata</u>)
118. Eastern cottonwood (<u>Populus deltoides</u>)	145. Shingle oak (<u>Quercus imbricaria</u>)
119. Eastern redbud (<u>Cercis canadensis</u>)	146. Silver maple (<u>Acer saccharinum</u>)
120. Eastern red cedar (<u>Juniperus virginiana</u>)	147. Slippery elm/Red elm (<u>Ulmus rubra</u>)
121. Eastern white pine (<u>Pinus strobus</u>)	148. Sugar maple (<u>Acer saccharum</u>)
122. Flowering dogwood (<u>Cornus florida</u>)	149. Swamp white oak (<u>Quercus bicolor</u>)
123. Hackberry (<u>Celtis occidentalis</u>)	150. Sweetgum (<u>Liquidambar styraciflua</u>)
124. Honeylocust (<u>Gleditsia triacanthos</u>)	151. Sycamore (<u>Platanus occidentalis</u>)
125. Ironwood (<u>Ostrya virginiana</u>)	152. Tuliptree/Yellow-poplar (<u>Liriodendron tulipifera</u>)
126. Jack pine (<u>Pinus banksiana</u>)	153. Virginia pine (<u>Pinus virginiana</u>)
127. Kentucky coffeetree (<u>Gymnocladus dioica</u>)	154. White ash (<u>Fraxinus americana</u>)
	155. White oak (<u>Quercus alba</u>)

Seeds

201. American basswood (<u>Tilia americana</u>)	Seeds (cont.)
202. American beech (<u>Fagus grandifolia</u>)	220. Sugar maple (<u>Acer saccharum</u>)
203. Black oak (<u>Quercus velutina</u>)	221. Sweetgum (<u>Liquidambar styraciflua</u>)
204. Black walnut (<u>Juglans nigra</u>)	222. Sycamore (<u>Platanus occidentalis</u>)
205. Blue beech (<u>Carpinus caroliniana</u>)	223. Tuliptree/Yellow-poplar (<u>Liriodendron tulipifera</u>)
206. Bur oak (<u>Quercus macrocarpa</u>)	224. Virginia pine (<u>Pinus virginiana</u>)
207. Butternut (<u>Juglans cinerea</u>)	225. White oak (<u>Quercus alba</u>)
208. Eastern red cedar (<u>Juniperus virginiana</u>)	<p>Note: Some of the 55 tree species used in the identification contest are not described in "Fifty trees of Indiana," therefore supplementary tree identification books are recommended.</p>
209. Eastern white pine (<u>Pinus strobus</u>)	
210. Honeylocust (<u>Gleditsia triacanthos</u>)	
211. Ironwood (<u>Ostrya virginiana</u>)	
212. Jack pine (<u>Pinus banksiana</u>)	
213. Kentucky coffeetree (<u>Gymnocladus dioica</u>)	
214. Northern red oak (<u>Quercus rubra</u>)	
215. Ohio buckeye (<u>Aesculus glabra</u>)	
216. Persimmon (<u>Diospyros virginiana</u>)	
217. Red maple (<u>Acer rubrum</u>)	
218. Shagbark hickory (<u>Carya ovata</u>)	
219. Silver maple (<u>Acer saccharinum</u>)	

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Woods (Seniors only)
301. American basswood (<i>Tilia americana</i>)
302. American beech (<i>Fagus grandifolia</i>)
303. American elm (<i>Ulmus americana</i>)
304. Black cherry (<i>Prunus serotina</i>)
305. Black walnut (<i>Juglans nigra</i>)
306. Butternut (<i>Juglans cinerea</i>)
307. Eastern red cedar (<i>Juniperus virginiana</i>)
308. Northern red oak (<i>Quercus rubra</i>)
309. Shagbark hickory (<i>Carya ovata</i>)
310. Sugar maple (<i>Acer saccharum</i>)
311. Sycamore (<i>Platanus occidentalis</i>)
312. Tuliptree/Yellow-poplar (<i>Liriodendron tulipifera</i>)
313. White ash (<i>Fraxinus americana</i>)
314. White oak (<i>Quercus alba</i>)

Tree Damage Identification by Insect or Disease

Insect Damage:

	Common name	Scientific name
401	Asian longhorned beetle	<i>Anoplophora glabripennis</i>
402	balsam woolly adelgid	<i>Adelges piceae</i>
403	beech scale	<i>Cryptococcus fagisuga</i>
404	bronze birch borer	<i>Agrilus anxius</i>
405	caterpillar hunter beetle	<i>Calosoma sycophanta</i>
406	checkered beetle	<i>Thanasimus dubius</i>
407	eastern tent caterpillar	<i>Malacosoma americanum</i>
408	emerald ash borer	<i>Agrilus planipennis</i>
409	European pine sawfly	<i>Neodiprion sertifer</i>
410	fall webworm	<i>Hyphantria cunea</i>
411	forest tent caterpillar	<i>Malacosoma disstria</i>
412	gypsy moth	<i>Lymantria dispar</i>
413	hemlock woolly adelgid	<i>Adelges tsugae</i>
414	Japanese beetle	<i>Popillia japonica</i>
415	locust borer	<i>Megacyllene robiniae</i>
416	locust leafminer	<i>Odontota dorsalis</i>
417	Nantucket pine tip moth	<i>Rhyacionia frustrana</i>
418	pales weevil	<i>Hylobius pales</i>
419	periodical cicada	<i>Magicicada septendecim</i>
420	pine needle scale	<i>Chionaspis pinifoliae</i>
421	red oak borer	<i>Enaphalodes rufulus</i>
422	smaller European elm bark beetle	<i>Scolytus multistriatus</i>
423	twolined chestnut borer	<i>Agrilus bilineatus</i>
424	white pine weevil	<i>Pissodes strobi</i>
425	whitemarked tussock moth	<i>Orgyia leucostigma</i>

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Disease Damage:

	Common Name	Scientific Name
426	artist's conk	<i>Ganoderma applanatum</i>
427	beech bark disease	<i>Neonectria coccinea</i>
428	black knot	<i>Apiosporina morbosa</i>
429	cedar-apple rust	<i>Gymnosporangium juniperi-virginianae</i>
430	chestnut blight	<i>Cryphonectria parasitica</i>
431	dogwood anthracnose	<i>Discula destructiva</i>
432	Dutch elm disease	<i>Ophiostoma ulmi</i>
433	dwarf mistletoes	<i>Arceuthobium sp.</i>
434	hypoxylon canker	<i>Biscogniauxia atropunctata var. atropunctata</i>
435	lichens	numerous species
436	nectria canker	<i>Neonectria galligena</i>
437	needle cast fungi	numerous species
438	oak wilt	<i>Ceratocystis fagacearum</i>
439	red heart of pine	<i>Phellinus pini</i>
440	white pine blister rust	<i>Cronartium ribicola</i>