



4-H Study Materials for Entomology Contests

January 2003

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Study List for Senior Participants (Ages 14-19)

	Common Name	Order	Host or Location	Significance
1.	Springtails	Collembola	Surface of puddles	Variable
2.	Silverfish	Thysanura	Trunk, closet	Pest
3.	Mayflies	Ephemeroptera	Near water	Inconsequential
4.	Black-winged damselfly	Odonata	Stream	Beneficial
5.	Green darner	Odonata	Stream	Beneficial
6.	Stoneflies	Plecoptera	Near water	Inconsequential
7.	Banded-winged grasshoppers	Orthoptera	Pasture	Pest
8.	Differential grasshopper	Orthoptera	Pasture	Pest
9.	Long-horned grasshoppers	Orthoptera	Shrubs/grass	Pest
10.	Mole crickets	Orthoptera	Sandy soil	Pest
11.	Snowy tree cricket	Orthoptera	Trees	Pest
12.	True katydid	Orthoptera	Trees	Pest

13.	American cockroach	Blattaria	House	Pest
14.	German cockroach	Blattaria	House	Pest
15.	Oriental cockroach	Blattaria	House	Pest
16.	Praying mantids	Mantodea	Shrubs, vegetation	Beneficial
17.	Walkingsticks	Phasmida	Shrubs, vegetation	Pest
18.	Earwigs	Dermaptera	Ground trash	Pest
19.	Termites	Isoptera	Wood, stumps	Pest
20.	Barklice	Psocoptera	Tree trunk	Pest
21.	Booklice	Psocoptera	Libraries, papers, books	Pest
22.	Chicken head louse	Phthiraptera (Mallophaga)	Poultry	Pest
23.	Head louse	Phthiraptera (Anoplura)	Humans	Pest
24.	Hog louse	Phthiraptera (Anoplura)	Swine	Pest
25.	Short-nosed cattle louse	Phthiraptera (Anoplura)	Cattle	Pest
26.	Ambush bug	Hemiptera	Flowers	Beneficial
27.	Assassin bug	Hemiptera	Field crops	Beneficial
28.	Backswimmer	Hemiptera	Pond	Beneficial
29.	Big-eyed bugs	Hemiptera	Field crops	Beneficial
30.	Boxelder bug	Hemiptera	Boxelder trees	Pest
31.	Burrower bug	Hemiptera	Grasses, peanuts	Pest

32.	Chinch bug	Hemiptera	Grass	Pest
33.	Cotton fleahopper	Hemiptera	Cotton	Pest
34.	False chinch bug	Hemiptera	Sorghum	Pest
35.	Giant water bug	Hemiptera	Water, ponds	Pest
36.	Green stink bug	Hemiptera	Weeds	Pest
37.	Harlequin bug	Hemiptera	Cole crops	Pest
38.	Large milkweed bug	Hemiptera	Milkweed	Beneficial
39.	Leaffooted bug	Hemiptera	Plants, weeds	Pest
40.	Minute pirate bugs	Hemiptera		Beneficial
41.	Squash bug	Hemiptera	Squash	Pest
42.	Tarnished plant bug	Hemiptera	Plants, weeds	Pest
43.	Toad bug	Hemiptera	Shoreline	Beneficial
44.	Water boatman	Hemiptera	Pond	Beneficial
45.	Water scorpions	Hemiptera	Stream	Beneficial
46.	Water striders	Hemiptera	Pond	Beneficial
47.	Wheel bug	Hemiptera	Vegetation	Beneficial
48.	Thrips	Thysanoptera	Flowers	Variable
49.	Aphids	Homoptera	Corn, sorghum	Pest
50.	Armored scales	Homoptera	Trees, shrubs	Pest
51.	Cicadas	Homoptera	Trees	Pest

52.	Greenbug	Homoptera	Small grains	Pest
53.	Leafhoppers	Homoptera	Grasses	Pest
54.	Pecan phylloxera	Homoptera	Pecans	Pest
55.	Planthoppers	Homoptera	Various plants	Pest
56.	Soft scales	Homoptera	Ornamental trees	Pest
57.	Spittlebugs	Homoptera	Alfalfa	Pest
58.	Treehoppers	Homoptera	Trees	Pest
59.	Whiteflies	Homoptera	Vegetables, cotton	Pest
60.	Antlions	Neuroptera	Plants	Beneficial
61.	Dobsonflies	Neuroptera	Stream	Beneficial
62.	Lacewings	Neuroptera	Alfalfa	Beneficial
63.	Mantispids (Mantidflies)	Neuroptera	Woodlots	Beneficial
64.	Owlfly	Neuroptera	At lights	Beneficial
65.	Alfalfa weevil	Coleoptera	Alfalfa	Pest
66.	Blister beetles	Coleoptera	Plants, alfalfa, weeds	Pest
67.	Boll weevil	Coleoptera	Cotton	Pest
68.	Carpet beetles	Coleoptera	Wool carpets	Pest
69.	Carrion beetles	Coleoptera	Dead animals	Beneficial
70.	Caterpillar hunter	Coleoptera	Woodland	Beneficial

71.	Click beetles	Coleoptera	Corn, field crops	Pest
72.	Colorado potato beetle	Coleoptera	Potatoes	Pest
73.	Confused flour beetle	Coleoptera	Stored grain	Pest
74.	Maize weevil (rice weevil)	Coleoptera	Stored grain	Pest
75.	Cottonwood borer	Coleoptera	Cottonwood trees	Pest
76.	Elm leaf beetle	Coleoptera	Elm trees	Pest
77.	Fireflies (lightningbugs)	Coleoptera	Weeds	Inconsequential
78.	Flat-headed borer (Metallic wood borer)	Coleoptera	Trees	Pest
79.	Flea beetles	Coleoptera	Weeds	Pest
80.	Lady beetles	Coleoptera	Weeds	Beneficial
81.	Lesser grain borer	Coleoptera	Stored grain	Pest
82.	Locust borer	Coleoptera	Black locust	Pest
83.	May beetles (June beetles or Junebugs)	Coleoptera	Shrubs	Pest
84.	Mealworm	Coleoptera	Stored grain	Pest
85.	Plum curculio	Coleoptera	Peaches	Pest
86.	Predaceous diving beetles	Coleoptera	Ponds	Beneficial
87.	Rove beetles	Coleoptera	At lights	Inconsequential

88.	Sawtoothed grain beetle	Coleoptera	Stored grain	Pest
89.	Soldier beetles	Coleoptera	Flowers	Inconsequential
90.	Spotted cucumber beetle	Coleoptera	Weeds	Pest
91.	Sweet potato weevil	Coleoptera	Sweet potatoes	Pest
92.	Tiger beetles	Coleoptera	Shady trails	Beneficial
93.	Tumbling flower beetles	Coleoptera	On flowers	Inconsequential
94.	Water scavenger beetles	Coleoptera	Stream	Inconsequential
95.	Whirlygig beetles	Coleoptera	Stream	Inconsequential
96.	Scorpionflies	Mecoptera	Plants	Inconsequential
97.	Caddisflies	Trichoptera	Near stream	Inconsequential
98.	Alfalfa caterpillar (clouded sulfur)	Lepidoptera	Alfalfa	Pest
99.	Armyworm	Lepidoptera	Grasses	Pest
100.	Bagworm	Lepidoptera	Juniper	Pest
101.	Black swallowtail	Lepidoptera	Carrots, weeds	Pest
102.	Bollworm or corn earworm	Lepidoptera	Cotton, corn, other crops	Pest
103.	Buckeye	Lepidoptera	Plantain	Inconsequential
104.	Cabbage butterflies	Lepidoptera	Cole crops	Pest

105.	Cabbage looper	Lepidoptera	General feeder	Pest
106.	Cecropia	Lepidoptera	Oak	Pest
107.	Cutworms	Lepidoptera	General feeder	Pest
108.	Fall webworm	Lepidoptera	Pecans	Pest
109.	Fall armyworm	Lepidoptera	Grasses	Pest
110.	Forest tent caterpillar	Lepidoptera	Broad-leaved trees	Pest
111.	Giant swallowtail	Lepidoptera	Citrus	Pest
112.	Gray hairstreak (Cotton square borer)	Lepidoptera	Cotton	Pest
113.	Great leopard moth	Lepidoptera	Weeds	Inconsequential
114.	Greater wax moth	Lepidoptera	Beehive	Pest
115.	Indian meal moth	Lepidoptera	Stored grain	Pest
116.	Io moth	Lepidoptera	Trees, corn	Pest
117.	Luna moth	Lepidoptera	Oak	Pest
118.	Monarch	Lepidoptera	Milkweed	Pest
119.	Mourningcloak butterfly	Lepidoptera	Willow	Inconsequential
120.	Peach tree borer	Lepidoptera	Peach trees	Pest
121.	Pecan nut casebearer	Lepidoptera	Pecans	Pest
122.	Pink bollworm	Lepidoptera	Cotton	Pest
123.	Polyphemus	Lepidoptera	Oaks	Pest

124.	Question mark	Lepidoptera	Elms	Pest
125.	Red admiral	Lepidoptera	Nettles	Inconsequential
126.	Saltmarsh caterpillar	Lepidoptera	Grasses, weeds	Pest
127.	Silver•spotted skipper	Lepidoptera	Black locust	Inconsequential
128.	Sorghum webworm	Lepidoptera	Sorghum	Pest
129.	Southwestern corn borer	Lepidoptera	Grain crops	Pest
130.	Tiger swallowtail	Lepidoptera	Cherry	Pest
131.	Tomato hornworm	Lepidoptera	Tomatoes	Pest
132.	Underwing moths	Lepidoptera	Trees	Inconsequential
133.	Viceroy	Lepidoptera	Poplar	Inconsequential
134.	White•lined sphinx	Lepidoptera	Around lights	Pest
135.	Wood nymph	Lepidoptera	Thick woods	Inconsequential
136.	Bee flies	Diptera	Flowers	Beneficial
137.	Black flies	Diptera	Stream	Pest
138.	Blow flies	Diptera	Carrion	Variable
139.	Common cattle grub	Diptera	Cattle	Pest
140.	Crane flies	Diptera	Meadow	Inconsequential
141.	Deer fly	Diptera	Woodlands	Pest
142.	Flesh flies	Diptera	Carrion	Pest

143.	Fruit flies	Diptera	Ripe & rotten fruit	Pest
144.	Horn fly	Diptera	Cattle	Pest
145.	Horse fly	Diptera	Woodlands	Pest
146.	House fly	Diptera	Barn	Pest
147.	Mosquitoes	Diptera	Yard and meadow	Pest
148.	Mydas fly	Diptera	Woodlands	Inconsequential
149.	Robber flies	Diptera	Woodlands	Beneficial
150.	Sheep keds	Diptera	Sheep	Pest
151.	Sorghum midge	Diptera	Sorghum	Pest
152.	Stable fly	Diptera	Cattle	Pest
153.	Syrphid fly (flower fly)	Diptera	Flowers	Beneficial
154.	Fleas	Siphonaptera	Cat, dog	Pest
155.	Baldfaced hornet	Hymenoptera	Woodlands	Pest
156.	Bumblebees	Hymenoptera	Meadow	Beneficial
157.	Carpenter bees	Hymenoptera	Fence posts	Pest
158.	Cicada killer	Hymenoptera	Soil	Beneficial
159.	Honeybee	Hymenoptera	Flowers	Beneficial
160.	Horntails	Hymenoptera	Logs	Pest
161.	Ichneumon wasps	Hymenoptera	Flowers	Beneficial
162.	Leafcutting bees	Hymenoptera	Flowers	Pest

163.	Mud daubers	Hymenoptera	Buildings	Beneficial
164.	Potter wasps	Hymenoptera	Building	Pest
165.	Red imported fire ant	Hymenoptera	Pastures, lawns	Pest
166.	Red harvester ant	Hymenoptera	Pastures	Pest
167.	Tarantula hawk	Hymenoptera	Woodlands	Beneficial
168.	Texas leafcutting ant	Hymenoptera	Woodlands	Pest
169.	Velvet ants	Hymenoptera	Soil	Pest
170.	Yellowjackets	Hymenoptera	House eaves	Pest
171.	Brown dog tick	Acari	Dog	Pest
172.	Fowl tick (blue bug)	Acari	Poultry	Pest
173.	Lone star tick	Acari	Cattle	Pest
174.	Spider mites	Acari	Plants	Pest
175.	Crab spiders	Araneae	Flowers	Beneficial
176.	Jumping spiders	Araneae	Garden	Beneficial
177.	Recluse spiders	Araneae	Board piles	Pest
178.	Tarantulas	Araneae	Soil	Beneficial
179.	Widow spiders	Araneae	Woodlots	Pest
180.	Wolf spiders	Araneae	Under rocks	Beneficial
181.	Yellow garden spider	Araneae	Garden	Beneficial
182.	Scorpions	Scorpionida	Log piles	Pest

183.	Sun spiders (Wind scorpions)	Solpugida	Arid regions	Inconsequential
184.	Vinegaroons	Uropygi	Arid regions	Pest
185.	Centipedes	Class Chilopoda		Pest
186.	Millipedes	Class Diplopoda	Leaf litter	Pest
187.	Sowbugs and pillbugs	Isopoda	Compost	Pest

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