

# SOUTHWEST DISTRICT CONTEST

## ENTOMOLOGY

To provide the opportunity for novice and junior 4-H members to test their knowledge of insect identification.

### **General Information**

Each county is allowed to bring two novice and two junior teams to district contest. A junior team may be composed of both novice and junior 4-H members. A novice team may be novice age contestants only. A team will consist of at least three and no more than four members. The county team score will be the sum of the three highest scores. If a county does not have a team, they may bring individuals in each category. Individuals will compete for high point individual only. Thirty minutes will be allowed for identification.

**NOVICE** will be required to identify 25 insects by their common name. These are listed on insect identification list for reference. (Novice)

Novice contestants will be required to write the common name of the insect in the space provided on the answer sheet. The insect identification list will be provided to each contestant.

Each correct name is worth 4 points with a total of 100 points possible.

**JUNIORS** will be required to identify 25 insects by their common name. (at least 10 will be from the novice identification list)

Junior contestants will also identify the type of mouthpart for each insect in the space provided on the answer sheet.

The reference list for Junior participants will be provided to each contestant. Each correct name is worth 4 points with a total of 100 points possible.

Each correct mouthpart is worth 2 points with a total of 50 points possible. 30 minutes will be allowed for identification and 30 minutes for mouthparts.

### **Tie Breaker**

The ties will be broken by consecutively comparing answers to the odd numbered questions on insect identification (1, 3, 5, etc...). If there is still a tie, it will be followed by consecutively comparing answers to the even numbered questions (2, 4, 6, etc...). The tie will be broken at the first identification question where one member has the correct answer and the other the incorrect answer.

Reference:

- New Mexico 4-H Entomology project book, 100 J-10
- One Hundred Common Insects of New Mexico, 200 J-11
- [www.nmffa.org](http://www.nmffa.org) : Activities: State Career Development: Contest Rules and Test Banks
- Borror and White – Field Guide to the Insects, Peterson Field Guide series, Houghton – Mifflin, Boston
- Milne and Milne – Audubon Society, Field Guide to North American Insects and Spiders, Knopf, New York

## Insect Identification List for Reference: Junior

### COMMON NAMES

- |                               |                                |                               |
|-------------------------------|--------------------------------|-------------------------------|
| 1. Ambush bug                 | 40. Green lacewing             | 79. Skipper                   |
| 2. American cockroach         | 41. Ground beetle              | 80. Snout beetle              |
| 3. Ant                        | 42. Halictid bee               | 81. Soft tick                 |
| 4. Antlion                    | 43. Hard tick                  | 82. Soft-winged flower beetle |
| 5. Aphid                      | 44. Hister beetle              | 83. Soldier beetle            |
| 6. Assassin bug               | 45. Honey bee                  | 84. Sowbug                    |
| 7. Backswimmer                | 46. Horse fly                  | 85. Sphecid wasp              |
| 8. Bark beetle                | 47. Ichneumon wasp             | 86. Sphinx moth               |
| 9. Bed bug                    | 48. Jerusalem cricket          | 87. Spider wasp               |
| 10. Bee fly                   | 49. Jumping spider             | 88. Stink bug                 |
| 11. Big-eyed bug              | 50. Ladybird beetle            | 89. Sucking louse             |
| 12. Black fly                 | 51. Leaf beetle                | 90. Sulfur butterfly          |
| 13. Blister beetle            | 52. Leafcutting bee            | 91. Swallowtail butterfly     |
| 14. Blow fly                  | 53. Leaf-footed plant bug      | 92. Syrphid fly               |
| 15. Braconid wasp             | 54. Leafhopper                 | 93. Tachinid fly              |
| 16. Brush-footed butterfly    | 55. Long-horned beetle         | 94. Termite                   |
| 17. Camel cricket             | 56. Long-horned grasshopper    | 95. Thrips                    |
| 18. Carrion beetle            | 57. Louse fly                  | 96. Tiger beetle              |
| 19. Centipede                 | 58. Mantid                     | 97. Tiger moth                |
| 20. Chalcidid wasp            | 59. Mealybug                   | 98. Tiphid wasp               |
| 21. Checkered beetle          | 60. Metallic woodboring beetle | 99. Treehopper                |
| 22. Chewing louse             | 61. Millipede                  | 100. Twig borer               |
| 23. Cicada                    | 62. Mosquito                   | 101. Velvet ant               |
| 24. Click beetle              | 63. Muscid fly                 | 102. Vespid wasp              |
| 25. Cricket                   | 64. Noctuid moth               | 103. Violin spider            |
| 26. Damsel bug                | 65. Oriental cockroach         | 104. Walkingstick             |
| 27. Damselfly                 | 66. Plant bug or leaf bug      | 105. Water boatman            |
| 28. Darkling beetle           | 67. Planthopper                | 106. Water scavenger beetle   |
| 29. Dermestid beetle          | 68. Pyralid moth               | 107. Water strider            |
| 30. Diving beetle             | 69. Robber fly                 | 108. Whipscorpion             |
| 31. Dragonfly                 | 70. Rove beetle                | 109. Whitefly                 |
| 32. Earwig                    | 71. Sap beetle                 | 110. Widow spider             |
| 33. Flea                      | 72. Scale insect               |                               |
| 34. Flesh fly                 | 73. Scarab beetle              |                               |
| 35. Fruit fly                 | 74. Scoliid wasp               | <b>MOUTHPARTS</b>             |
| 36. Geometer moth             | 75. Scorpion                   | Chewing                       |
| 37. German cockroach          | 76. Seed bug                   | Sucking                       |
| 38. Giant silkworm moth       | 77. Short-horned grasshopper   | None                          |
| 39. Gossamer-winged butterfly | 78. Silverfish                 | Both                          |

**ENTOMOLOGY**  
**Answer Sheet Junior – 60 min. allowed**

Contestant Name \_\_\_\_\_ County \_\_\_\_\_

Common Name:		Mouth parts
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____
13.	_____	_____
14.	_____	_____
15.	_____	_____
16.	_____	_____
17.	_____	_____
18.	_____	_____
19.	_____	_____
20.	_____	_____
21.	_____	_____
22.	_____	_____
23.	_____	_____
24.	_____	_____
25.	_____	_____

Each correct name is worth 4 points and each correct mouthpart is worth 2 points **Score** \_\_\_\_\_

## Insect Identification List for Reference: Novice

1. Ambush Bug
2. American cockroach
3. Ant
4. Aphid
5. Assassin bug
6. Bark beetle
7. Blister beetle
8. Braconid wasp
9. Brush-footed butterfly
10. Camel cricket
11. Centipede
12. Chewing louse
13. Click beetle
14. Darkling beetle
15. Dermestid beetle
16. Dragonfly
17. Earwig
18. Flea
19. Flesh fly
20. German cockroach
21. Gossamer-winged butterfly
22. Green lacewing
23. Honey bee
24. Horse fly
25. Jerusalem cricket
26. Ladybird beetle
27. Leaf-footed plant bug
28. Leafhopper
29. Long-horned beetle
30. Long-horned grasshopper
31. Mantid
32. Mosquito
33. Noctuid moth
34. Planthopper
35. Robber fly
36. Scarab beetle
37. Scorpion
38. Silverfish
39. Sowbug
40. Sphinx moth
41. Spider
42. Spider wasp
43. Stink bug
44. Sucking louse
45. Swallowtail butterfly
46. Termite
47. Treehopper
48. Velvet Ant
49. Vespid Wasp
50. Walkingstick

**ENTOMOLOGY**  
**Answer Sheet Novice- 30 min allowed**

Contestant Name: \_\_\_\_\_

County: \_\_\_\_\_

Common Name

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_

Common Name

19. \_\_\_\_\_
20. \_\_\_\_\_
21. \_\_\_\_\_
22. \_\_\_\_\_
23. \_\_\_\_\_
24. \_\_\_\_\_
25. \_\_\_\_\_

Each correct name is worth 4 points

Score \_\_\_\_\_

