



4-H Collection Contest Guidelines – 2017

During the 2016/2017 4-H year, all collections that meet the requirements will be judged at the state level, there will be no district contests. The collections will be judged during Round-Up. It is the responsibility of the 4-Her to transport their collection to the HEEP Center, room 411 (Esther Jackson), by 9am, June 6, 2017. For additional questions or information, please contact superintendent, Molly Keck at mekeck@ag.tamu.edu or 210-631-0400. You may make arrangements to have your collection delivered by your local agent attending RoundUp. Please have them contact Molly for pickup/drop off arrangements.

Your collections will be displayed Tuesday evening, June 6th in Reed Arena and may be picked up at that time. If you are not attending RoundUp please be sure to make arrangements to have your collection picked up by your agent or another individual.

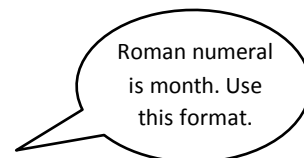
For help with pinning and spreading, visit www.YouTube.com – Bexar Entomology channel.

Requirements for all 4-H Entomology Collection contestants are as follows:-

1. Be sure to include your name, county, and age group (Junior, Intermediate, Senior) AND PHONE NUMBER on an index card or piece of paper attached to your collection.
2. All arthropods must be properly identified to Order. See <https://insects.tamu.edu/youth/4H/>
3. Insects you want judged to common name must be properly identified to common name (if listed in the 4-H Entomology Contest). See <https://insects.tamu.edu/youth/4H/> for common names. Insects not on the 4-H list will not be judged by common name and common names do not need to be provided.
4. No duplication of insects/arthropods.
5. Only adult specimens.
6. Only insects collected in Texas allowed (no pets, store bought, or insects collected from other states).
7. You may only use insects collected within the last 2 years of the contest year.
8. Only 5% of your collection may be collected by others.
9. Only 25% of your collection may have been submitted in previous years. All collections are sprayed with florescent paint; insects used in previous years can be identified by judges.
10. Insects must have a collection label on the pin and placed at the proper height on the pin. For a sheet of labels, you may use: <http://extension.entm.purdue.edu/401Book/pdf/SpecimenLabels.pdf>. Labels may be handwritten or typed. Labels should not be around the same size as the insect, font size should be set accordingly.
 - a. Labels should show as little white as possible. Try to keep your label smaller than your insect, if possible. You may use more or less lines than shown in the examples.

County, State Specific location Date Collector

Bexar Co, TX. Eisenhower Park X.20.2013 M. Keck



11. Identification Labels – Order and Common Name labels (where applicable).
- Order Labels – you may group orders together and use a 12-14pt font to identify insects to order. Group insects together by order. Use header labels to identify insects in the same order to keep your labels from cluttering under the insect.
 - Common Name labels – place the common name label above your insects attached by a pin or glue. Use 10-12pt font.
12. Insects must be mounted correctly and placed in an organized fashion in a collection box. Group orders together in your collection. Be sure orders are arranged in rows, across the collection box.

13. Spreading guidelines:

- The bottom of the forewings should be at a 90° angle from the body. Hindwings should be at a 45° angle from the forewing.
- Insects required to be spread:
 - Butterflies and moths (Lepidoptera)
 - Dragonflies and damselflies (Odonata)
- Insects that look good spread:
 - Grasshoppers (Orthoptera) – one or both wings
 - Cicada (Hemiptera)
 - You can spread any insect you would like; you will not be penalized for spreading insects.



14. Insects/Arthropods that should be preserved in vials and at least 70% alcohol. Vials should be able to be removed easily for viewing. **BE SURE VIALS ARE SECURED IN BOXES TO AVOID THEM ROLLING AND DESTROYING YOUR COLLECTION.**

- Silverfish (Thysanura)
- Springtails (Collembola)
- Scales (Hemiptera)
- Fleas (Siphonaptera)
- Thrips (Thysanoptera)
- Lice (Phthiraptera)
- White Flies (Hemiptera)
- Spiders (Aranae)
- Ticks (Acarina)
- Small Earwigs (Dermaptera)
- Scorpion (Scorpiones)
- Sulfugids (Sulfugidae)

15. Collection display boxes should be neat and the proper size requirements for your level (see table below). Boxes will be transported to College Station, be sure they are sturdy and have a lid of some sort. You may place your display box within another box (shoe box, or reasonable sized cardboard box) for transportation. There are no requirements for type of boxes for junior and intermediates. **Texas 4-H, Texas A&M AgriLife Extension and Judges are NOT responsible for damaged collections during transit.**

16. **Please see scoring cards for minimum and maximum insects allowed by age group.**

17. Provide a list of insects submitted in your collection with Order, common name, preservation method, and number of specimens included. An example insect list is on following page. Use this example as a guide. Seniors must type this list, intermediates and juniors may hand write.

EXAMPLE Insect List

Order	Common Name*	Preservation Method	Number of Specimens
Odonata	Green Darner Dragonfly	Pinned	1
Orthoptera	Field cricket	Pinned	2
	Differential grasshopper	Pinned	
Hemiptera		Pinned and pointed	7
Hemiptera	Giant water bug	Pinned	1
Hemiptera	Flower thrips	Alcohol	1
Hemiptera	Big eyed bug	Pointed	1
Coleoptera		Pinned & pointed	6
Hymenoptera	Velvet ant	Pinned	1
Hymenoptera		Pinned	4
Siphonaptera		Alcohol	1
Scorpiones	Scorpion	Alcohol	1

*Only include the common names of the insects you wish to be judged. If you include more common names than is required for your common name, points will be deducted for not following instructions.

Collections will be judged on aesthetics, identification, mounting and labeling. Please review the score card for weight of judging.

Specific Level Requirements

Junior Level Requirements (ages 8-10)

15 insects minimum

8 insect/arthropod orders

10 insects identified to common name

All arthropods must be identified to proper order. There must be a total of at least 6 different insect orders and 10 arthropods identified to common name based on the Texas 4-H common names.

Arthropods must contain the proper labels. Insects must be pinned correctly and placed in an organized fashion in a collection box.

Intermediate Level Requirements (ages 11-13)

34 insects minimum

13 insect/arthropod orders

16 insects identified to common name

All arthropods must be identified to proper order. There must be a total of at least 10 different insect orders and 16 arthropods identified to common name based on the Texas 4-H common names.

Arthropods must contain the proper labels. Insects must be pinned correctly and placed in an organized fashion in a collection box.

Senior Level Requirements (ages 14-18)

60 insects

18 insect/arthropod orders

25 insects identified to common name

All arthropods must be identified to proper order. There must be a total of at least 15 different insect orders and 25 arthropods identified to common name based on the Texas 4-H common names.

Arthropods must contain the proper labels. Insects must be pinned correctly and placed in an organized fashion in a collection box. Collection boxes must have a glass cover and dimensions 18x24, 16.5x19, 16x20, 14x21 or 19.5x16.5. Multiple boxes may be submitted, however, if multiple boxes are used, they must be the same dimension (you may not use two different sized boxes).

Collection Material Resources:

For supplies such as pins, pinning blocks, spreading boards, collection boxes, etc:

BioQuip Products
2321 Gladwick Street
Rancho Dominguez, CA 90220
PH: (310) 667-8800 FAX: (310) 667-8808
<http://www.bioquip.com>

Carolina Biological Supply Co.
2700 York Rd.
Burlington, NC 27215-3398
PH: (800) 334-5551
<http://www.carolina.com>

NASCO Science Catalog
901 Janesville Ave.
Ft. Atkinson, WI 53538-0901
PH: (800) 563-2446 FAX: (920) 563-8296
<http://www.enasco.com>

Ward's Natural Science Establishment, LLC
5100 West Henrietta Rd.
P.O. Box 92912
Rochester, NY 14692-9012
PH: (800) 962-2660 FAX: (585) 334-6174
<http://wardsci.com/>

For locations for purchasing collection boxes:

Hobby Lobby (shadow boxes)
Michael's Crafts (shadow boxes)
Office Depot (shipping boxes)
Carolina Biological
Wards Scientific
Bioquip

4-H Entomology Score Card – Junior Level

	Points Possible	Your Score
Total of at least 15 insects	15	
8 Insect Orders	16	
Orders correctly identified (-2 for each incorrect ID)	16	
6 Common names correctly identified (-2 for each incorrect, missing)	20	
Pinning and Spreading Condition of insects All legs, antennae and other body parts intact Wings spread on appropriate insects and spread properly Pins in correct location on insects Insects uniform height on pins (see youtube video for guidelines) Legs positioned consistently Insects level on pins, pinned straight	20	
Labels Neat and accurate Uniform height Not twisted Not too large for the specimen Not too much white on the label	10	
Arrangement in Boxes Variety of insects No duplication of insects Grouping accurate, correct, and neat Spacing of insects neat, attractive Overall neatly arranged and attractive	10	
TOTAL SCORE	107	

4-H Entomology Score Card – Intermediate Level

	Points Possible	Your Score
Total of at least 34 insects (-.5 pts ea)	34	
Total of 13 orders	13	
Orders correctly identified	13	
16 Common names correctly identified	16	
Pinning and Spreading Condition of insects All legs, antennae and other body parts intact Wings spread on appropriate insects and spread properly Pins in correct location on insects Insects uniform height on pins (see youtube video for guidelines) Legs positioned consistently Insects level on pins, pinned straight	20	
Labels Neat and accurate Uniform height Not twisted Not too large for the specimen Not too much white on the label	15	
Arrangement in Boxes Variety of insects No duplication of insects Grouping accurate, correct, and neat Spacing of insects neat, attractive	10	
TOTAL SCORE	121	

4-H Entomology Score Card – Senior Level

	Points Possible	Your Score
Total of at least 60 insects	60	
Total of 18 orders	18	
Orders correctly identified (-1 for each incorrect ID)	18	
25 Common names correctly identified (-1 for each incorrect, missing)	25	
Pinning and Spreading Condition of insects All legs, antennae and other body parts intact Wings spread on appropriate insects and spread properly Pins in correct location on insects Insects uniform height on pins (see youtube video for guidelines) Legs positioned consistently Insects level on pins, pinned straight	25	
Labels Neat and accurate Uniform height Not twisted Not too large for the specimen Not too much white on the label	15	
Arrangement in Boxes Variety of insects No duplication of insects Grouping accurate, correct, and neat Spacing of insects neat, attractive	10	
TOTAL SCORE	146	

60 insects

15 insect/arthropod order minimum

20 insect/arthropod order maximum

25 insects identified to common name