2021 National 4-H Beekeeping Essay Competition: Call for Entries

Submission Deadline March 15, 2021

First Prize: \$750, Second Prize: \$500, Third Prize: \$250

2021 Essay Topic: Immunity: Threats to Bee Colonies and Methods to Defend Against the Threats

Honey bee colonies have developed many ways to stay healthy. Their immune responses range from behaviors such as grooming to using materials such as propolis, a plant-derived substance bees coat on the interior of a hive for antimicrobial purposes. Even the gut of the honey bee contains beneficial bacteria to help the bee



stay healthy! In your essay, name at least two threats (e.g., a parasite such as Varroa, a pathogen such as a virus, a predator such as a bear, etc.) to honey bee colonies and then discuss the methods colonies use to defend against those threats. If possible, include at least one picture you have taken from February 2020 - February 2021 that illustrates how colonies manage to stay healthy against a variety of threats.

Essay requirements for national judging:

o Essay must be typewritten or computer-generated on single-sided pages and formatted following standard manuscript format, using double-spaced type and 12-point font in legible font face. o Essay must encompass the designated topic in 750 to 1,000 words. Word count does not include sources, works cited or the writer's biographical statement.

o All factual statements and interview references must be cited in a "sources" or "bibliography" list. o Essays will be judged on (a) scope of research, 40%; (b) accuracy, 30%; (c) creativity, 10%; (d) conciseness, 10%; and (e) logical development of the topic, 10%.

o On a separate page, please include a brief biographical statement about the 4-H Member and include mailing address, email address and phone number.

Questions or submissions: afd7@cornell.edu