



SAVE
the **BEE**®

2019-2020 ANNUAL REPORT

SAVE the BEE® is getting the word out!

Inspiring positive change to ensure the future of honey bees.

RESEARCH

\$597,720

raised to date to support research and education



6

research papers published by OSU Honey Bee Lab



AWARENESS

75

public education events

22

Master Beekeeper scholarships provided



EDUCATION

Why SAVE the BEE®?

Honey bees are the only insect intricately tied to our food supply. One-third of our diet is derived from plants that require pollination, and in the US, honey bees are responsible for 80 percent of agricultural pollination! Without the services of honey bees, there would be no almonds or many of the other healthy fruits and vegetables we take for granted.

Why are bees dying?

The widespread loss of honey bees in the last decade has been linked to:



PERVASIVE USE OF PESTICIDES

Neonicotinoids are a class of popular pesticides developed to be safer for people because they move systemically into all parts of a plant. However, this has made them particularly toxic for bees due to chronic exposure through nectar and pollen.



PARASITES

Varroa mite infestations continue to contribute to the loss of honey bee colonies.



LOSS OF FORAGING HABITAT

Between development and industrial agriculture, there are fewer and fewer acres of diverse, native forage.



POOR NUTRITION

Bees need a diverse and balanced diet! When bees are used to pollinate large "monocrops" their dietary options are limited.

What does SAVE the BEE® do?

Led by GloryBee, **SAVE the BEE** is ...

- **Funding scientific research** on the causes of declining bee populations and on solutions to enhance colony health.
- **Increasing awareness** of the role honey bees play in a healthy food supply.
- **Providing "best practices" education** for beekeepers, farmers, and gardeners.
- **Supporting lobbying efforts** toward pesticide reform legislation.

SAVE the BEE® supports OSU Honey Bee Lab

The Honey Bee Research and Extension program at Oregon State University provides commercial and hobbyist beekeepers with applied research, best management practices, and diagnostic services.

Learn more at honeybeelab.oregonstate.edu.

HONEY BEE HEALTH AND NUTRITION

Ongoing research projects include:

- Long term monitoring of commercial beekeeping colonies for pests, pathogens, pesticides, and nutritional status.
- Recently published data on the sub-lethal physiological damage to honey bees caused by insecticides *Sivanto* and *Transform*.
- Examining the inhibitory effects of fungicides on sterol biosynthesis in honey bees and the resulting health impacts.
- Identifying the sterol composition of predominant pollens in Oregon and evaluating optimal sterol requirements for bees.
- The lab's diagnostic services process an average of 250 samples per year for Oregon beekeepers (for mites, parasites, and some viruses and bacterial diseases).

BEST MANAGEMENT PRACTICES

- Treating for Varroa mites based on mite sampling results rather than calendar based treatments.
- Supplementing bee diets during pollination of "risky crops" to mitigate poor nutrition.
- Protecting bees from pesticides with a smartphone app designed for farmers to access data on "pesticides to avoid" when bees are in the fields pollinating crops.
- Pacific Northwest Tech Transfer Team has processed 13,000 samples for 30 commercial beekeepers in the PNW Region and provided colony health results in a timely manner.



Oregon State
University



OREGON MASTER BEEKEEPER PROGRAM

A cooperative effort between OSU and the Oregon State Beekeepers Association to contribute to the health of honey bees and the integrity of beekeeping practices throughout the region.

- Enhancing beekeepers' knowledge and understanding
- Providing training and hands-on experience
- Supporting best-management practices
- Increasing public awareness of honey bees and beekeeping

Learn more at extension.oregonstate.edu/mb





SAVE the BEE® also supports...

WASHINGTON STATE UNIVERSITY HONEY BEE AND POLLINATOR PROGRAM opened their new Research, Extension and Education facility in Othello, WA in March of 2020. The facility will allow for increased collaboration, enhanced short courses and demonstrations for beekeepers. Support from **SAVE the BEE** purchased hives for their new apiary. The program continues to partner with Paul Stamets and Host Defense in researching how fungi can help bees.



bees.wsu.edu

BEE GIRL ORGANIZATION continues to work on bee conservation through their **Regenerative Bee Pasture** project and **Kids and Bees** program. They are rocking curriculum to connect kids to bees, soil, and their own food, and creating better rural landscapes for bees through integrating habitat diversity and grazing. **SAVE the BEE** support has helped to purchase seeds and farm equipment.



beegirl.org

BEYOND TOXICS led advocacy efforts to ban Chlorpyrifos in the 2019 and 2020 Oregon legislative sessions and raised awareness of actions taken in other states to end the use of this pesticide known to harm humans and bees. They organized a successful **Organic Turf Management** workshop attended by park staff from ten cities, and they continue to chair Eugene's Bee City USA Committee.



beyonddtoxics.org

NORTHWEST CENTER FOR ALTERNATIVES TO PESTICIDES is helping farmers and home gardeners create more pollinator habitat. In the last year, they planted an additional 1,000 feet of pollinator hedgerows on organic farms. Their **Pesticide-Free Neighborhoods** campaign provided resources on alternatives to bee-toxic pesticides to 1,000 homes in Oregon. NCAP also provided testimony countering EPA's efforts to roll back pesticide restrictions that protect bees.



pesticide.org

SAVE the BEE® Partners

GloryBee knows that it will take all of us working together to address the plight of our favorite pollinators. Numerous like-minded businesses have joined the cause!

MANUFACTURING PARTNERS

Alden's Organic, Back to Nature, Franz Bakery, Grizzlies Brand, Iggy's Foods, Little Northern Bakehouse, Mary's Gone Crackers, Three Sisters, Wild Friends Foods

RETAIL PARTNERS

Central Markets, Market of Choice, Marlene's Market & Deli, New Seasons Market, Sunny Farms, Three Bears Alaska, Town & Country Markets

CREATIVE CO-PROMOTIONAL PARTNERS

Bakery Nouveau, Bob's Red Mill, Cupcake Royale, Hot Cakes Molten Chocolate Cakery, Hot Mama's Wings, Oakshire Brewing, Pacific Resources International, Sokol Blosser Winery, Stickman Brewing Company, Yes.Fit

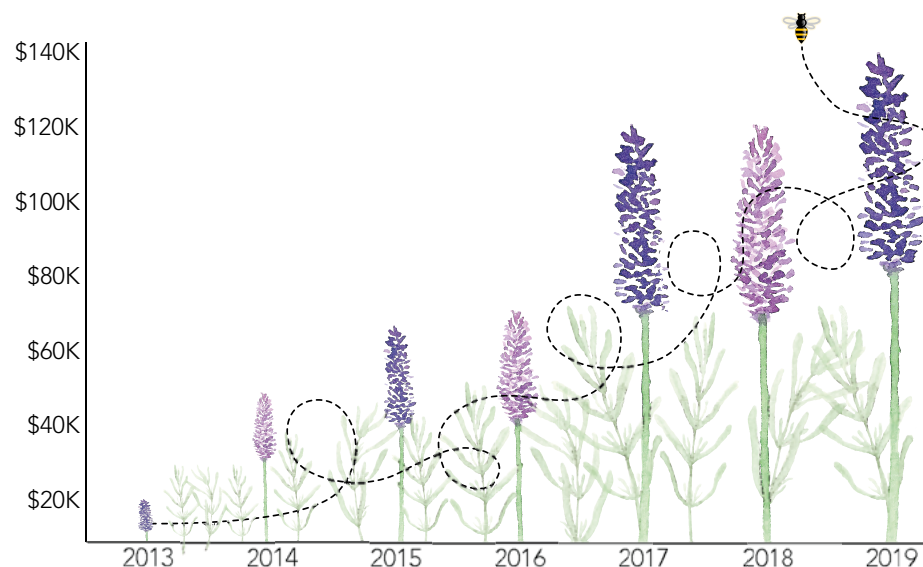
1% FOR THE PLANET PARTNERS

Alima Pure, Huney Jun, NEO Plastics

SAVE the BEE 5K EVENT SPONSORS

Bi-Mart, HUB International, Lane County Economic Development, Springfield Creamery, SnoTemp, Umpqua Bank; **IN-KIND:** Coconut Bliss, Franz Bakery, Morning Glory Chai, Three Sisters, Triangle Graphics

ANNUAL SAVE THE BEE CONTRIBUTIONS



Why GloryBee is working to **SAVE the BEE**®

GloryBee was founded by beekeepers, and honey continues to be a significant part of our business. In working toward our vision of a **healthy world where bees and people thrive**, GloryBee launched the **SAVE the BEE** Initiative to raise awareness of the plight of honey bees. We surpassed our half million mark in 2019. Can you help us get to one million? GloryBee staff administer **SAVE the BEE**, meaning 100% of funds raised go to the cause.



Join us at a **SAVE the BEE** 5K race!

How you can help **SAVE the BEE**®

- Support local beekeepers! Buy their honey. Pay them a premium price.
- Avoid using harmful pesticides on your lawn or in your garden.
- Support regenerative agriculture, buy from organic farms and nurseries.
- Plant pollinator friendly flowers that bloom in different seasons.
- Become a beekeeper.
- Join the **SAVE the BEE** cause! Donate online at savethebee.org.

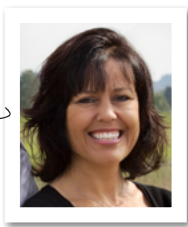
Like-minded companies can join us by becoming **SAVE the BEE** partners. We have a variety of options for partnership, and we're open to your creative ideas. Let's work together to **SAVE the BEE**! Contact Lynne, our **SAVE the BEE** Program Manager, savethebee@glorybee.com.



Signed, *GloryBee Second Generation Leadership*

Alan Turanski
President & Beekeeper

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Director of HR & Communications



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