

SARE GRANT ONE24-432

OUTLINE FOR VIRTUAL MEETINGS

MEETING #1 3/19/25 Initial Kick-off

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 - Agenda for meeting #1

Slide #4 – Project leads with bio's

Slide #5 – Project partners with bio's

Slide #6 - Map of participant locations – encouragement to establish sub-cohorts

Slide #7 - Project Purpose

Slide #8 - Review Leadership Expectations

Slide #9 – Question submissions

Slide #10 - Review of Participants Expectations

SLIDE #11-16 - List of Participants – Introductions (encouragement development of sub-cohorts)

SLIDE #17 - Schedule of Meetings

SLIDE #18 -Link to monthly reports: Colony Inspection Report & Mite Count Report

SLIDE #19 -Outline Next Steps

SLIDE #20 - Knowledge Base Examination Explanation

- Sign off and take first of three examines (second at midway, third at end of program)

SLIDE #21 – Q & A Session

This material is based upon work supported by the National Institute of Food and Agriculture, U.S. Department of Agriculture, through the Northeast Sustainable Agriculture Research and Education program under subaward number ONE24-432.

MEETING #2 4/9/25 – Explanation of Required Reporting

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 - Agenda for meeting #2

- Slide shows a rare drone (yellow eyes) – stressing the importance of having a camera at the ready

Slide #4 - Knowledge Base Scores – Initial examination 1 of 3 for the program = 64%

Slide #5 - Colony monthly inspection explanation

- Poll question: Comfort level with colony inspections
- Slide provides thread to submit colony inspection reports monthly

Slide #6 - Continue with colony monthly inspection and explanation for recording

- Slide provides an example of an inspection report sheet & a picture of end of winter bottom board example

Slide #7 - Continue with colony monthly inspection explanation providing examples with each question

SLIDE #8 - Continue with colony monthly inspection explanation providing examples with each question

- Slide provides example of solid brood frame

SLIDE #9 - Varroa mite monthly report explanation

- Slide provides thread to submit mite reports month, need to observe broken brood for varroa, bottom board with debris-beetle-mites

SLIDE #10 - Continue varroa mite monthly report explanation with IPM Pyramid

SLIDE #11 - Resource of Honey Bee Health Coalition with link for assistance

SLIDE #12 - Current flowering plants

SLIDE #13 - Next steps

SLIDE #14 - Next meeting information

- Slide provides thread to recorded meeting session

SLIDE #15 - Q & A Session

- Slide provides thread to submit questions

MEETING #3 4/23/25 – Guest presenter Nathan Pears, President YCBA

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Meeting Topic and guest introduction

Slide #4 – Define a swarm

Slide #5 – Agenda slide

Slide #6 - References

Slide #7-#10 – General Swarm needs and expectations

SLIDE #11- Equipment needed

SLIDE #12 –#21 Catching swarms and safety

SLIDE #22 -#31– Methods to catching swarms

SLIDE #32 – Installing a swarm

SLIDE #33- 49 – Examples of making, installing, Luring swarm traps, and hiving swarms

SLIDE # 50 – Current flowering plants

SLIDE #51 – Photo of interest

SLIDE #52-#54 – Q&A and upcoming events

MEETING #4 5/14/25 - The Swarming Event

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Meeting Topic with agenda

Slide #4 – Define types of queen cells

Slide #5 – Identify colony reproduction – POLL QUESTION

Slide #7 – Conditions for a swarm

Slide #8-#9 – Cause and Effect

SLIDE #10-#11 – Signs in the colony, what are they telling us

SLIDE #13 – Video of a swarm

SLIDE #14 – Ineffective swarm preventative methods

SLIDE #15-#16 – Swarm prevention Actions

SLIDE #17-#18 – What is going on with the bees

SLIDE #19-#20 – Biology of the bee

SLIDE #21-#22 – Time table

SLIDE #23-#25 – Current flowering plants

SLIDE #26 – Q&A with upcoming events

MEETING #5 – 5-31-25 INPERSON WORKSHOP – Colony Inspections

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Meeting Topic with agenda

Slide #4 – Bee basic needs

Slide #5 – Bee life cycle

Slide #6 – Frequency of inspections

Slide #7-#12 – Reasons for inspections

Slide #13 - Scenario walk through

SLIDE #14 – Goal focus

SLIDE #15-#18 – Scenario's with groups

SLIDE #19 – Outline for group colony inspections

SLIDE #20-#24 – Group reports on colony inspections

SLIDE #25 – Q&A and upcoming events

MEETING #6 – 6-11-25 Genetics with Guest Speaker Robert House, commercial beekeeper

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Meeting Topic with agenda introducing guest speaker Robert House, commercial beekeeper

Slide #4-22 – Rob House Slides on genetic and testing for hygienics with OBeeU

Slide #23 – Current flowering plants

Slide #24 – Reminder of Pollinator Week

Slide #25 – Q&A and upcoming events

MEETING #7 6-28-25 INPERSON WORKSHOP – Summer Preparation for Winter (Varroa Mites)

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Meeting Topic with agenda

Slide #4-#6 – Basic colony loss statistics

Slide #7-#8 – Top stressors towards colony losses

Slide #9 – Varroa mite explanations

SLIDE #10-#12 – Define winter bees

SLIDE #13 – Explanation of trip to apiary expectation (In apiary performing varroa mite testing both sugar roll and alcohol wash)

SLIDE #14 – Touch on IPA methods

SLIDE #15 – Review bee vs mite season cycle

SLIDE #16 – Honey bee health coalition – sign in and show tools

SLIDE #17 – Stats showing future results of varroa counts

SLIDE #18-#19 – Additional colony stressors causing losses

SLIDE #20 – Current flowering plants

SLIDE #21-#23 – Q&A with upcoming events

MEETING #8 7/9/25 Honey Extraction with Guest Speaker David Papke, 2024 PA Beekeeper of the Year

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – State of the Bees

Slide #4 – Bio of guest presenter – David Papke

Slide #5 – Agenda outline

Slide #6 – Nectar Flow explanation

Slide #7 – Assessing Honey Supers

Slide #8 – VIDEO – assessing frames - <https://www.youtube.com/shorts/MH3cPyruKPs>

SLIDE #9 - Clearing bees from supers

SLIDE #10 - #13 – Preparation for honey extraction

SLIDE #14 – Uncapping honey

SLIDE #15 – VIDEO – Honey extraction with heated uncapping knife

https://www.youtube.com/shorts/P5irUq_cFFs

SLIDE #16 – VIDEO – Honey extraction with uncapping table <https://www.youtube.com/shorts/jCvPB2M-AGs>

SLIDE #17-#18 – Spinning frames of honey <https://www.youtube.com/shorts/-wKVySav3nM>

SLIDE #19 -#21 – Straining and storing honey

SLIDE #22 – Feeding wet supers back to bees

SLIDE #23 – Clean up and store

SLIDE #26 – **Photo of In-person workshop session 6-28-25**

SLIDE #27-29 – Plants in bloom for pollinators

SLIDE #30 – Next meetings

MEETING #9 7/23/25 OPEN Q & A Session

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 - Agenda

Slide #4 – State of the bees

Slide #5 – Water sources

Slide #6 – Inspection frequency

Slide #7-#11 – Reviewed questions submitted

SLIDE #12 – Topics of examination and areas to review with future sessions

SLIDE #13-#20 – Examination areas to review for future sessions – time spent in Q&A session

SLIDE #22-25 – Plants in bloom for pollinators

SLIDE #26 – Next meetings

MEETING #10 8/13/25 Organization & Legislation with Guest Speaker Mark Gingrich, PSBA President

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Bio and introduction of Mark Gingrich, President of PSBA

Slide #4 – PSBA Board

Slide #5 – PSBA involvement

Slide #6 – Listing of state beekeeping associations

Slide #7-#18 – Review of PSBA involvement

SLIDE #19-#38 – Bee law

SLIDE #39 – How to join PSBA

SLIDE #40-42 – Next meetings

MEETING #11 8/27/25 Condensing Hives Preparing for Winter

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 - Agenda

Slide #4 – State of the Bees

Slide #5-#6 -Varroa Mite cycle

Slide #7 – Honey Bee Health Coalition - TOOLS

Slide #8 – Pests – Yellow Jacket solutions

SLIDE #9 – Video – Bee Frenzy/Robbing

SLIDE #10-#11 – Hive compression

SLIDE #12-#13 – Feeding options

SLIDE #14 – Winter wind breaks

SLIDE #15 – Winter Preparation Checklist

SLIDE #16 – Examination Review Topics

SLIDE #17 – POLL QUESTIONS on Definitions

SLIDE#18 – POLL QUESTIONS on Inspections

SLIDE #19 – VIDEO – Queen Piping

SLIDE #20 – POLL QUESTIONS on Biology

SLIDE #21-#22 – POLL QUESTIONS on Varroa Mite

SLIDE#23 – Current Blooms

MEETING #12 9/6/25 Winterizing Preparation 2 & Quality Honey Production w/ Guest Speaker Valerie Hawthorne, PA Honey Judge

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 - Agenda

Slide #4- Bio Valeria Hawthorne

Slide #5- IDENTIFY PICTURE – Hive Beetle eggs

Slide #6 – Hive Beetle life cycle

Slide #7 – Hive Beetle Treatments

Slide #8 – Hive Condensing

SLIDE #9 – Honey Tasting

ADDITIONAL SLIDES FROM American Honey Show Training Council (AHSTC) – Valerie Hawthorne

MEETING #13 9/24/25 Challenges Facing Beekeepers with Guest Speaker Jeremy Barnes, Beekeeper of the Year 2017

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Bio Jeremy Barnes

Slide #4-#8 – Evolution of knowledge

Slide #9-#12 – Natural hive bodies vs. managed hive bodies

Slide #13 – Differences between natural vs. managed colonies

Slide #14-#16 – Differences between temperatures

SLIDE #17-#25 - Genetics / evolution

SLIDE #26-#29 - Swarming vs. swarm prevention

SLIDE #30 – Multiple mating

SLIDE #31-#41 – Feeding bees vs. non-feeding

SLIDE #43 – Current Blooms

MEETING #14 10/8/25 FULL Q & A SESSION – KNOWLEDGE REVIEW TESTING PERIOD

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Examination Review Topics

Slide #4 – POLL QUESTION on Important Ranges

Slide #5 – POLL QUESTION on Life Cycle of the Honey Bee

Slide #6 – POLL QUESTION on Inspections

Slide #7 – POLL QUESTION on Brood Patterns

Slide #8 – Review of Summer Bees vs. Winter Bees

SLIDE #9 - POLL QUESTION on Honey

SLIDE #10 – Review of Colony Collapse Disorder (CCD)

MEETING #15 10/22/25 PA APIARY INSPECTOR PROGRAM with Guest Speaker Robert Dwyer, PA Inspector

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – Inspection sheet

Slide #4 – Bio Rob Dwyer and other PA inspectors

Slide #5 – PA Inspector Regions

Slide #6-#7 – Stats on Beekeepers in PA

Slide #8 – Why Register

SLIDE #9-#10 – Inspection Process

SLIDE #11 – New Bee Law

SLIDE #12 – Pesticides Killed my bees – what to do

SLIDE #13-#14 – Upcoming threat

SLIDE#15 – How to get help

MEETING #16 11/12/25 FALL CONSIDERATIONS

Slide #1 - Title page with project leaders

Slide #2 - Welcome and acknowledgement of USDA – SARE - NIFA funding

Slide #3 – State of the Bees

Slide #4 – Winter Checklist

Slide #5-#10 – Feeding during winter

Slide #11 – Nutrients of nectar

Slide #12 – Nutrients within honey

SLIDE #13 - Nosema

SLIDE #14 – Q & A

MEETING #17 12/10/25 Q & A Submissions

MEETING #18 1/14/26 – Why Bees Abscond w/ Guest Presenter Cici Sweaney, Penn State Extension

MEETING #19 2/11/26 – Bee Viruses w/ Guest Presenter Dr. Robyn Underwood, Penn State Extension

MEETING #20 3/11/26

MEETING #21 4/8/26 – Final Examination

MEETING #22 4/22/26 – Final Meeting – What’s Next