

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

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