GOLD

Allen Chorman and Son Inc.

SILVER

County Bank
Delaware Farm Bureau
Kenny Brothers Produce
McConnell Agronomics
O.A. Newton
The Pictsweet Company
Walls Irrigation, Inc.

BRONZE

AgRisk Management
Growmark FS, LLC
Kingston Construction
Poultry Equipment
Mid-Atlantic Seeds
Sussex Conservation District
Sylvester Crop Consulting LLC
Syngenta
Wafler Nursery
Delaware Agriculture

A.C. Schultes of Delaware, Inc.
Adams County Nursery Inc.
Advanced Motorsports Lubricants
Agri-Inject
AgRisk Management
AgroLab, Inc.
Amick Farms LLC
B & W Farm Supply
Bayhealth
Binkley & Hurst/LVI
BioSafe Systems
Central Ag Systems, Inc.
Certified Delmarva Grown
Channel
Clifton Seed Company
County Bank
Crow Insurance Agency, Inc.
Delaware 4-H
Delaware Cooperative Extension Risk Management
Delaware Crop Insurance Education
Delaware Department of Agriculture-Communications and Marketing
Delaware Department of Agriculture-Pesticide Section
Delaware Department of Agriculture-Seed Lab
Delaware Farm Bureau
Delaware Prosperity Partnership
Delaware Soybean Board
Delaware Standardbred Owners Assoc., Inc.
Delaware State University
Delmarva Poultry Industry, Inc.
Ditch Witch
DNREC Water Allocation Branch
Eastern Shore Poultry Services
Ecodrum Composter
Farm Credit
Farm Freezers LLC
Farmsite Technologies
First Financial Bank
FMC
Fulton Bank
Green Street Solar
Growers Mineral Solutions
Growmark FS, LLC
Hoffman Irrigation
Hoober Inc.
Hubner Seed

Week Exhibitors

Kenny Brothers Produce
King Crop Insurance, Inc.
Kingston Construction Poultry Equipment
Laurel Farmers Auction Market
LeafFilter Gutter Protection
M & T Bank
Mid-Atlantic Seeds
Mid-Atlantic Soybean Association Inc.
Miller Chemical & Fertilizer, LLC
Mountaire Farms
NACHURS
Nagel Crop Insurance, Risk & Profit Consulting
Nutrient Management Program
O.A. Newton
Paradise Energy Solutions
Perdue AgriBusiness LLC
Perdue Foods
PNC Bank
Produce Safety Rule Program
Professional Leasing Inc.
Rupp Seeds
Schaeffer’s Oil
Seed Consultants
Siegers Seed Company
SMW Sales, LLC
Solair, LLC
Stokes Seed Company
Sussex Conservation District
Sussex Irrigation
Syngenta
Taylor & Messick, Inc.
The Delmarva Farmer
The IR-4 Project
Tidewater Seed
TriGas & Oil
Tucker Mechanical Service
UD Creamery
U.S. Dept. of Labor, Wage and Hour Division
U.S. Environmental Protection Agency
USDA Natural Resources Conservation Service (NRCS)
USDA-Farm Service Agency
Venture Farms LLC/Stine Seed
Victory Packaging
Vincent Farms/Shore Drip Irrigation
Walls Irrigation
The 2020 Delaware Agriculture Week Planning Committee, Exhibitors and Sponsors would like to thank you for your attendance and support of this year’s event!

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If you have special needs that need to be accommodated, please contact the office two weeks prior to the event.

University of Delaware Cooperative Extension in accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.
Please pre-register for the following events:

**Annie’s Project**  
Contact: Tracy Wootten  
Phone: 302-856-7303  
Email: wootten@udel.edu

**Beef Cattle Producers Session**  
Contact: Daniel Severson  
Phone: 302-831-2506  
Email: severson@udel.edu

**Annual Delaware Agricultural Industry Dinner**  
Contact: Stacey Hofmann  
Phone: 302-698-4542  
Email: stacey.hofmann@delaware.gov

**Delaware Horticulture Industry Expo and Annual Pesticide Conference**  
Contact: Valann Budischak  
Phone: 888-448-1203  
Email: dnlainc@comcast.net

**Delaware Urban Farm and Food Coalition Session**  
Contact: Carrie Murphy  
Phone: 302-831-2506  
Email: cjmurphy@udel.edu

**FVGAD Awards Luncheon and Business Meeting**  
Contact: Emmalea Ernest  
Phone: 302-856-7303  
Email: emmalea@udel.edu

**Risk Management Session**  
Contact: Laurie Wolinski  
Phone: 302-831-2538  
Email: lgw@udel.edu

**Small Ruminant Session**  
Contact: Kwame Matthews  
Phone: 302-857-6540  
Email: kmatthews@desu.edu

**Soil Health Workshop**  
Contact: Sussex Conservation District  
Phone: 302-856-3990 ext. 3  
Email: bobbi.heck@de.nacdnet.net  
www.sussexconservation.org

**Women in Agriculture Conference**  
Contact: Shannon Dill  
Phone: 410-822-1244  
Email: sdill@umd.edu

*For more information on all of the Ag Week programs, visit our website at [http://sites.udel.edu/delawareagweek/](http://sites.udel.edu/delawareagweek/)*
**Free Health Screenings, Information and Services**

*Monday*
3:00 p.m. – 7:00 p.m.

*Tuesday-Thursday*
10:00 a.m. – 2:00 p.m.

**Beebe Population Health**
**Dover Building**
Blood Pressure Screening
Glucose Screening
Cholesterol Screening
Bone Density Screening
BMI

For questions, please contact Reba Tappan at 302-645-3337.
DELAWARE NUTRIENT MANAGEMENT

EARN 1 EASY CONTINUING EDUCATION CREDIT

BRING YOUR COMPLETED 2019 ANNUAL REPORT FORM TO EARN 1/2 CREDIT

BRING YOUR MANURE SAMPLES FOR TESTING IN A SEALED AND LABELED SANDWICH BAG TO EARN 1/2 CREDIT

VISIT US AT THE NUTRIENT MANAGEMENT BOOTH IN THE DOVER BUILDING DURING DAYTIME SESSIONS

DROP OFF BOXES FOR MANURE SAMPLES AND ANNUAL REPORTS WILL BE AVAILABLE DURING EVENING SESSIONS

DELAWARE DEPARTMENT OF AGRICULTURE
POULTRY SESSION
EXHIBIT HALL
SESSION CHAIRS: SYDNEY RIGGI, GEORGIE CARTANZA, JON MOYLE

Moderators: Georgie Cartanza, Extension Poultry Agent, University of Delaware; Dr. Jonathan Moyle, Extension Poultry Specialist, University of Maryland

1:00 p.m.—2:00 p.m.
Visit Exhibitors and Light Refreshments in Dover Building

2:00 p.m.—2:05 p.m.
Welcome and Announcements

2:05 p.m.—2:35 p.m.
Nuffield International Farming Scholarship: Innovations in Poultry Production
Georgie Cartanza, Extension Poultry Agent, University of Delaware

2:35 p.m.—3:05 p.m.
Mortality Management and Neighbor Relations
Dr. Casey Ritz, Professor and Extension Specialist, University of Georgia

3:05 p.m.  BREAK/VISIT WITH EXHIBITORS

3:30 p.m.—4:15 p.m.
Litter Management Techniques to Optimize Flock and Litter Amendment Performance
Jared Thomson, Integrated Poultry Services

4:15 p.m.—4:45 p.m.
Biosecurity
Dr. Jonathan Moyle, Extension Poultry Specialist, University of Maryland

4:45 p.m.  DINNER/VISIT WITH EXHIBITORS

Sponsored by USDA Poultry Respiratory Disease (PRD) Coordinated Agricultural Project (CAP)

Session Summary:
DE Pesticide Certification Credits: 0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 2.0
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: NM:0.5, PD:0.5
Moderator: Blake Moore, Extension Agent, University of Delaware

1:00 p.m.—1:30 p.m.
Update on the State Forest Action Plan
Mike Valenti, Delaware Forest Service

1:30 p.m.—2:00 p.m.
Forest Land Preservation
Mike Valenti, Delaware Forest Service

2:00 p.m.—2:45 p.m.
Tax Ditch Program
Melissa Hubert, DNREC Drainage Program

2:45 p.m.—3:30 p.m.
Prescribed Fire for Small Forest Land
Kyle Hoyd, Delaware Forest Service

3:30 p.m.—4:15 p.m.
Timber/Forest Land Harvesting/Selling
Sam Topper, Delaware Forest Service

4:15 p.m.—5:00 p.m.
Wildlife Habitat on Small Forest Land
To be determined

5:00 p.m.          ADJOURN
Monday, January 13, 2020

SESSIONS

POULTRY SESSION

SESSION CHAIRS: SYDNEY RIGGI, GEORGIE CARTANZA, JON MOYLE

Moderators: Georgie Cartanza, Extension Poultry Agent, University of Delaware; Dr. Jonathan Moyle, Extension Poultry Specialist, University of Maryland

6:00 p.m.—6:45 p.m.
Water Quality & Performance
Dr. Casey Ritz, Professor and Extension Specialist, University of Georgia

6:45 p.m.—7:30 p.m.
Back to Basics
Georgie Cartanza, Extension Poultry Agent, University of Delaware
Dr. Jonathan Moyle, Extension Poultry Specialist, University of Maryland

7:30 p.m.—8:00 p.m.
Understanding Gut Health and How to Respond to Challenges
Dr. Dan Bautista, Veterinarian and Director, Lasher Lab, University of Delaware

8:00 p.m. ADJOURN

Sponsored by USDA Poultry Respiratory Disease (PRD) Coordinated Agricultural Project (CAP)

Session Summary:
DE Pesticide Certification Credits: 0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 2.0
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: 0
Monday, January 13, 2020

FRUIT SESSION                 COMMODITIES BUILDING
FRUIT & VEGETABLE GROWERS ASSOCIATION
OF DELAWARE
SESSION CHAIRS: GORDON JOHNSON, EMMALEA ERNEST

Moderator: Emmalea Ernest, Associate Scientist, Extension Fruit and Vegetable Program, University of Delaware

6:00 p.m.—6:40 p.m.
Strawberry Variety Testing and Quality Evaluation and the Strawberry Breeding Program at USDA, Beltsville
Dr. Kim Lewers, Research Geneticist, USDA-ARS

6:40 p.m.—7:10 p.m.
Late Planting of Day Neutral Strawberries: Use of Low Tunnels, Nanotechnology, Pollinator Crop and Live Deer Fence
Dr. Naveen Kumar, Assistant Professor of Horticulture, University of Maryland Eastern Shore

7:10 p.m.—7:35 p.m.
Development of an Autonomous Vehicle for Application of a Non-Chemical, Alternative Technology Addressing Disease and Pest Control
Adam Stager, Founder and CEO, TRIC Robotics LLC

7:35 p.m.—7:50 p.m.
Silica Application to Strawberries for Disease Prevention
Rosalyn Battle, M.S. Student, Delaware State University

7:50 p.m.—8:20 p.m.
The Evaluation of Anaerobic Soil Disinfestation on Weed Control for Plasticulture Strawberry Production and Evaluation of Strawberry Varieties
Danyang Liu, Ph.D. Student, Virginia Tech

Continued on next page
Monday, January 13, 2020

FRUIT SESSION                  COMMODITIES BUILDING
FRUIT & VEGETABLE GROWERS ASSOCIATION
OF DELAWARE
SESSION CHAIRS: GORDON JOHNSON, EMMALEA ERNEST

8:20 p.m.—8:35 p.m.
Spotted Lanternfly Update
Steven Hauss, Environmental Scientist II/CAPS Coordinator, Delaware Department of Agriculture

8:35 p.m.—9:00 p.m.
Produce Food Safety in Small Fruit Production
Dr. Gordon Johnson, Extension Fruit and Vegetable Specialist, University of Delaware
Jennifer Jones, University of Delaware

9:00 p.m.       ADJOURN

Session Summary:
DE Pesticide Certification Credits:  2.0
MD Pesticide Certification Credits:  3.0
DE Nutrient Management Credits:  0
MD Nutrient Management Credits:  1.0
Certified Crop Advisor Credits:  PM:0.5, CM:1.0
Monday, January 13, 2020

**BEEF CATTLE PRODUCERS SESSION**
**EXHIBIT HALL**
**BOARD ROOM**

**SESSION CHAIR:** DANIEL SEVerson

6:00 p.m.—6:30 p.m.
*The Basics of Beef Quality Assurance on Your Farm*
Courtney Gray, Pennsylvania Beef Council

6:30 p.m.  **DINNER Sponsored by the Delaware Beef Advisory Board**

7:00 p.m.—8:15 p.m.
*Understanding the Importance of Beef Quality Assurance for Producers and Consumers*
Chase DeCoite, NCBA, Director—Beef Quality Assurance

8:15 p.m.—8:45 p.m.
*Animal Disease Traceability*
Karen Lopez, Delaware Department of Agriculture

8:45 p.m.  **QUESTIONS/ADJOURN**

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Sponsored by the Delaware Beef Advisory Board

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Please RSVP by January 3, 2020 to Daniel Severson at severson@udel.edu or 302-831-2506 if you plan to attend so we can plan accordingly for meals and materials and accommodating any special needs.

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**Session Summary:**
DE Pesticide Certification Credits: 0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 0
MD Nutrient Management Credits: 0
Certified Crop Advisor Credits: 0
Tuesday, January 14, 2020

GENERAL AND PRODUCE FOOD SAFETY SESSION—FRUIT & VEGETABLE GROWERS ASSOCIATION OF DELAWARE

MENTORS: GORDON JOHNSON, EMMALEA ERNEST

Moderator: Dr. Gordon Johnson, Extension Fruit and Vegetable Specialist, University of Delaware

8:55 a.m.—9:00 a.m. Welcome
David Marvel, Jr., FVGAD President

9:00 a.m.—9:30 a.m. Export Opportunities for Delaware Growers
Tim Hamilton, Executive Director, Food Export USA-Northeast

9:30 a.m.—10:15 a.m. Invited Grower Presentation
Mitchell Bottomley, Evergreens and Farms, Glade Creek, North Carolina. Bottomley Evergreens & Farms, located in the Blue Ridge mountains of North Carolina and Virginia, grows 1,900 acres of produce including cabbage, broccoli, kale, collards, mustard, turnips, green beans, and corn. They also grow certified organic cabbage and green beans. They are major growers of pumpkins (2,250 acres) and Christmas trees (6,000 acres).

10:15 a.m.—10:45 a.m. Vegetable Production in Ohio
Dr. Matt Kleinhenz, Professor, Department of Horticulture and Crop Science, The Ohio State University

Produce Food Safety Session

10:45 a.m.—11:00 a.m. Updates on Produce Food Safety Programs
Delaware Department of Agriculture

11:00 a.m.—11:30 a.m. Food Safety Updates: FSMA Implementation, GAP Audit Issues, National and Regional Produce Food Safety Issues
Dr. Wes Kline, Rutgers University

11:30 a.m.—12:00 p.m. Produce Food Safety Research Updates
The University of Delaware is a leader in this region with produce food safety research. Learn about recent projects on soil amendments, irrigation water, and produce contaminants.
Dr. Kali Kniel, University of Delaware

12:00 p.m. LUNCH IN DOVER BUILDING

Session Summary:
DE Pesticide Certification Credits: 1.0
MD Pesticide Certification Credits: 2.0
DE Nutrient Management Credits: 1.0
MD Nutrient Management Credits: 1.0
Certified Crop Advisor Credits: CM:1.0, PD:1.5
Tuesday, January 14, 2020

Moderator: Daniel Severson, Extension Agriculture Agent, University of Delaware

9:00 a.m.—9:15 a.m.
Welcome and Housekeeping Details
Daniel Severson, Extension Agriculture Agent, University of Delaware

9:15 a.m.—10:00 a.m.
Weed Control and What Are We Missing?
Dr. Mark VanGessel, Extension Weed Science Specialist, University of Delaware
Quintin Johnson, Extension Weed Science Associate, University of Delaware

10:00 a.m.—10:45 a.m.
Soil Health in Grazing Systems
Brian Campbell, Grazing Specialist, USDA Natural Resources Conservation Service

10:45 a.m.  BREAK/VISIT WITH EXHIBITORS

11:00 a.m.—11:45 a.m.
Making the Most of Adaptive Grazing in Building a Productive Pasture-Based Livestock System
Matt Poore, Animal Science Department Extension Leader and Ruminant Nutrition Specialist, North Carolina State University

11:45 a.m.—12:00 p.m.
Words from the Maryland-Delaware Forage Council
Jarrod Miller, President, MDFC, and Extension Agronomy Specialist, University of Delaware

12:00 p.m.  LUNCH IN DOVER BUILDING

Session Summary:
DE Pesticide Certification Credits: 1.0
MD Pesticide Certification Credits: 2.0
DE Nutrient Management Credits: 1.50
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: PM:0.5, SW:0.5, CM:0.5
Free Health Screenings, Information and Services

Monday
3:00 p.m. – 7:00 p.m.

Tuesday-Thursday
10:00 a.m. – 2:00 p.m.

Beebe Population Health
Dover Building
Blood Pressure Screening
Glucose Screening
Cholesterol Screening
Bone Density Screening
BMI

For questions, please contact
Reba Tappan at 302-645-3337.
Moderator: Laura Russum, Community Relations Officer, Delaware Department of Agriculture

9:20 a.m.—10:20 a.m.
Social Media Marketing for Farms and Agribusiness
From selling products to advocating for agriculture, reaching new customers and sharing your story are important to the success of your business. It takes more than clever captions and beautiful photos for social media to have an impact on your small business. You know social media is important, but you’re not sure you have the time or understanding of where to start. Come to our Social Media Marketing Workshop for Farms and Agribusiness and learn about the types of social media strategies that lead to success and how to execute them.

10:20 a.m.  ADJOURN

Session Summary:
DE Pesticide Certification Credits: 0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 0
MD Nutrient Management Credits: 0
Certified Crop Advisor Credits: PD:1.0


**Tuesday, January 14, 2020**

**FRESH MARKET AND VINE CROPS SESSION, FRUIT & VEGETABLE Growers Association of Delaware**  
**SESSION CHAIRS: GORDON JOHNSON, EMMALEA ERNEST**

Moderator: Dr. Gordon Johnson, Extension Fruit and Vegetable Specialist, University of Delaware

1:15 p.m.—1:45 p.m.  
*Vegetable Disease Research and Management Updates*  
*Dr. Kate Everts, Professor and Extension Plant Pathology Specialist, University of Maryland*  
*Jake Jones, Extension Agriculture Agent, University of Delaware*

1:45 p.m.—2:05 p.m.  
*Vegetable Weed Management Updates and Row Middle Management in Vine Crops*  
*Dr. Mark VanGessel, Professor and Extension Weed Science Specialist, University of Delaware*

2:05 p.m.—2:30 p.m.  
*Entomology Research and Insect and Mite Management Updates*  
*Dr. David Owens, Extension Entomologist, University of Delaware*

2:30 p.m.—3:00 p.m.  
*Vegetable Research Programs in Ohio*  
*Dr. Matt Kleinhenz, Professor and Vegetable Specialist, Department of Horticulture and Crop Science, The Ohio State University*

3:00 p.m. **BREAK/VISIT WITH EXHIBITORS**

3:15 p.m.—3:45 p.m.  
*Advances with Biodegradable Mulch for Vegetable Production*  
*Dr. Wes Kline, Rutgers University*

3:45 p.m.—4:15 p.m.  
*Vegetable Research Updates: Variety Trials, Stress Mitigation Projects*  
*Emmalea Ernest, Associate Scientist, Extension Fruit and Vegetable Program, University of Delaware*

*Continued on next page*
Tuesday, January 14, 2020

**Fresh Market and Vine**
**Exhibit Hall**
Crops Session, Fruit & Vegetable
Growers Association of Delaware
Session Chairs: Gordon Johnson, Emmalea Ernest

4:15 p.m.—5:00 p.m.
*Fresh Market Vegetable Research Updates:*
*Variety Trials in Watermelons and Tomatoes;*
*Other Watermelon Research, Compost Projects, Particle Film Research*
Dr. Gordon Johnson, Extension Fruit and Vegetable Specialist, University of Delaware

5:00 p.m.       **ADJOURN**

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**Session Summary:**
DE Pesticide Certification Credits: 3.0
MD Pesticide Certification Credits: 4.0
DE Nutrient Management Credits: 1.50
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: PM:1.0, CM:1.5
Tuesday, January 14, 2020

**DELMARVA HAY AND COMMODITIES BUILDING**
**PASTURE CONFERENCE**
**SESSION CHAIR: DANIEL SEVERSON**

**Moderator:** Daniel Severson, Extension Agriculture Agent, University of Delaware

1:00 p.m.—2:00 p.m.
*Building a Balanced and Resilient Forage System Using Perennials and Annuals*
Matt Poore, Animal Science Department Extension Leader and Ruminant Nutrition Specialist, North Carolina State University

2:00 p.m.—3:00 p.m.
*Putting the Punch Back in Your Pastures With Pasture Renovation*
Amanda Grev, Pasture Management Extension Specialist, University of Maryland

3:00 p.m. **ADJOURN**

**Session Summary:**
DE Pesticide Certification Credits: 1.0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 2.0
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: CM:2.0
6:00 p.m.—6:30 p.m.  
*Past and Future Plans of the Small Ruminant Program*  
*Delaware Small Ruminant Team*  
(Dr. Kwame Matthews, Daniel Severson and Susan Garey)

6:30 p.m.   **DINNER**  
*Sponsored by Steve Breeding*

7:00 p.m.—7:30 p.m.  
*Animal Disease Traceability in Small Ruminants*  
*Dr. Karen Lopez, Delaware Deputy State Veterinarian*

7:30 p.m.—9:00 p.m.  
*Animal Husbandry, Regulation and Marketing of Sheep Dairy and Cheese Production*  
*Michael and Colleen Histon, Shepherds Manor Creamery*

9:00 p.m.  **QUESTIONS/ADJOURN**

*Please RSVP by January 3, 2020 to Dr. Kwame Matthews at kmatthews@desu.edu or 302-857-6540 if you plan to attend so we can plan accordingly for meals, materials and accommodating any special needs.*

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**Session Summary:**
- DE Pesticide Certification Credits: 0
- MD Pesticide Certification Credits: 0
- DE Nutrient Management Credits: 0
- MD Nutrient Management Credits: 0
- Certified Crop Advisor Credits: 0
6:00 p.m.—9:00 p.m.
How to get $5 Corn

Were you impressed with the early summer rally in corn prices? Producers from the center of the Corn Belt had a chance to sell cash corn for $4/bushel. Price charts indicate this was their first chance at $4 corn in five years. Was it really their first chance?

You might be surprised to learn that every producer in the Northern Plains had a chance to get $4 cash corn in each of the last five years—years when harvest prices ranged from $2.80-$3.30 per bushel. How? By taking the long-view in marketing with a plan that combines pre and post-harvest marketing efforts.

“How to get $5 Corn” is a 3-hour workshop with a simulation game where we explore three steps towards getting $5—or more—for your corn.

1. Price grain before harvest
2. At harvest, store grain and roll the hedge forward to spring
3. With a better spring basis, price and deliver grain

This is grain marketing from start to finish.

Edward Usset serves as a Grain Marketing Economist for the Center for Farm Financial Management at the University of Minnesota, the developers of FINPACK software. Working with his colleagues at CFFM and in extension, Ed developed the award winning “Winning the Game” series of workshops. In addition, he manages Commodity Challenge, an online marketing education game. He teaches “Commodity Markets” at the University. The 2nd Edition of his book, “Grain Marketing is Simple (it’s just not easy)” was released in November, 2015.
Delaware Horticulture Industry Expo and Annual Pesticide Conference

January 15 and 16, 2020

Modern Maturity Center
1121 Forrest Avenue
Dover, DE 19904

Pre-Registration is Required
Please contact Valann Budischak at 888-448-1203 or dnlainc@comcast.net

www.dnlaonline.org
Free Health Screenings, Information and Services

Monday
3:00 p.m. – 7:00 p.m.

Tuesday-Thursday
10:00 a.m. – 2:00 p.m.

Beebe Population Health
Dover Building
Blood Pressure Screening
Glucose Screening
Cholesterol Screening
Bone Density Screening
BMI

For questions, please contact Reba Tappan at 302-645-3337.
Wednesday, January 15, 2020

Moderator: Jake Jones, Extension Agriculture Agent, University of Delaware

9:00 a.m.—9:05 a.m.
Welcome
David Marvel, Jr., President, FVGAD

9:05 a.m.—9:35 a.m.
2019 Parthenocarpic Pickle Research
Dr. Gordon Johnson, Extension Fruit and Vegetable Specialist, University of Delaware

9:35 a.m.—9:55 a.m.
Sweet Corn Insect Pest Management Updates
Dr. David Owens, Extension Entomologist, University of Delaware

9:55 a.m.—10:15 a.m.
Weed Science Update from the 2019 Season
Dr. Mark VanGessel, Extension Weed Science Specialist, University of Delaware

10:15 a.m.  BREAK/VISIT WITH EXHIBITORS

10:45 a.m.—11:15 a.m.
Save the Succotash: Understanding Diseases in Lima Beans and Sweet Corn
Dr. Alyssa Koehler, Extension Plant Pathologist, University of Delaware

11:15 a.m.—11:45 a.m.
Lima Bean Variety Improvement Update and Snap Bean Variety Trials
Emmalea Ernest, Associate Scientist, Extension Fruit and Vegetable Program, University of Delaware

12:00 p.m.  FVGAD Awards Luncheon and Annual Business Meeting
Harrington Raceway and Casino
(see next page)

Session Summary:
DE Pesticide Certification Credits: 3.0
MD Pesticide Certification Credits: 6.0
DE Nutrient Management Credits: 0.5
MD Nutrient Management Credits: 1.0
Certified Crop Advisor Credits: PM:0.5, CM:1.0
**PRE-REGISTRATION REQUIRED**

All current **FVGAD Members** are invited to attend free of charge but **MUST** Pay Dues and RSVP by **Monday, January 6, 2020**.

**Tickets are $25 for non-FVGAD Members**

To pay FVGAD dues, RSVP for luncheon or purchase tickets, contact Emmalea Ernest at emmalea@udel.edu or 302-856-7303 by **Monday, January 6, 2020**.

12:00 p.m.  **Luncheon**

**Presentation of 2020 FVGAD Distinguished Service Award**

**Presentation of 2020 FVGAD Family Award**

**FVGAD Annual Business Meeting**
Wednesday, January 15, 2020

**POLLINATOR SESSION**

**SESSION CHAIR: FAITH B. KUEHN**

Moderator: Faith B. Kuehn, Delaware Beekeepers Association

1:00 p.m.—1:10 p.m.
**Welcome and Introduction**
Faith B. Kuehn, Delaware Beekeepers Association

1:10 p.m.—1:30 p.m.
**Delaware Bees and Beekeeping**
Kathy Hossler, President, Delaware Beekeepers Association

1:30 p.m.—2:00 p.m.
**Successful Honey Bee Pollination Procedures for the Beekeeper and Grower**
Amanda and Erik Thompson, Delaware Bay Bees

2:00 p.m.—2:45 p.m.
**Research and Education to Reduce Bee Losses During Pollination and Honey Production Season**
Dean Polk, Fruit IPM Agent, Rutgers Agricultural Research and Extension Center

2:45 p.m.—3:10 p.m.
**Get It, Girl! The Importance of Queen Promiscuity to Honey Bee Colony Health**
John Menz, M.S. Candidate, Entomology, University of Delaware

3:10 p.m. **BREAK**

3:20 p.m.—4:05 p.m.
**National Assessment and Regulatory Update**
Patrick Jones, Co-Chair, Pollinator Workgroup for AAPCO (Association of American Pest Control Officials)

4:05 p.m.—4:15 p.m.
**Delaware Pollinator Protection Plan and Pesticide Update**
Christopher Wade, Pesticide Section Administrator, Delaware Department of Agriculture

Continued on next page
**Wednesday, January 15, 2020**

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<th>Pollinator Session</th>
<th>Exhibit Hall</th>
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<tbody>
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<td><strong>Session Chair:</strong> Faith B. Kuehn</td>
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</tr>
</tbody>
</table>

### 4:15 p.m. — 4:35 p.m.
**Creating Bee Habitat on Delaware Farms**
Jim Passwaters, Environmental Vegetative Buffers Coordinator, Delmarva Poultry Industry, Inc.

### 4:35 p.m. — 5:00 p.m.
**Pollinator Partnership and National Pollinator Programs**
Thalia Pappas, Environmental Consultant, TerraFlora Environmental

### 5:00 p.m.  
**ADJOURN**

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**Session Summary:**
- DE Pesticide Certification Credits: 3.0
- MD Pesticide Certification Credits: 4.0
- DE Nutrient Management Credits: 0.5
- MD Nutrient Management Credits: 1.0
- Certified Crop Advisor Credits: PM:1.0, CM:0.5
**Wednesday, January 15, 2020**

**RISK MANAGEMENT SESSION**

**SESSION CHAIR: LAURIE WOLINSKI**

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**Moderator: Laurie Wolinski, Director, Northeast Extension Risk Management Education Center, University of Delaware**

**12:30 p.m.—3:30 p.m.**

**High School Ag Student Farm Management Program**

Laurie Wolinski, Maria Pippidis, Dan Severson, Jake Jones, Maryann Reed and Bryan Hudson

Risk management and farm succession planning are vital to every farm. University of Delaware Cooperative Extension is offering a special program for high school students to learn about the details and challenges in managing this sensitive type of farm risk – particularly on family farms. This program will be interactive; students will work in teams while learning about the foundation of a healthy farm, what is needed to maintain a farm’s health and what it is needed to begin succession planning. This program is open to all FFA students interested in farm management and farm succession – whether they are planning to go back to the farm or pursue a different career in agriculture (or in finances, law, social work, or the medical field). Teachers should plan to attend with their students. Teachers and students will need to provide their own transportation.

**3:30 p.m.**

**BREAK**

**3:45 p.m.—5:00 p.m.**

**2018 Farm Bill -- ARC and PLC Elections**

Robin Talley

**Underutilized Crop Insurance Options - Tools Which May Improve Your Coverage**

Donald Clifton

**5:00 p.m.**

**ADJOURN**

*Pre-registration is required for this event. Please contact Laurie Wolinski at 302-831-2538 or lgw@udel.edu.*

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**Session Summary:**

- DE Pesticide Certification Credits: 0
- MD Pesticide Certification Credits: 0
- DE Nutrient Management Credits: 0
- MD Nutrient Management Credits: 0
- Certified Crop Advisor Credits: 0
Wednesday, January 15, 2020

EPA Farmer Roundtable

Session Chair: Secretary Michael Scuse

<table>
<thead>
<tr>
<th>EPA Farmer Roundtable</th>
<th>Exhibit Hall Board Room</th>
</tr>
</thead>
</table>

2:00 p.m.—4:00 p.m.

Agriculture Roundtable with EPA

Delaware Agriculture Secretary Michael Scuse will host an Agriculture Roundtable with EPA Mid-Atlantic Regional Administrator Cosmo Servidio and members of the Delaware agricultural community. EPA will provide updates on EPA’s national and regional programs and policies affecting agriculture and seek feedback from the Delaware agricultural community on the successes, challenges, and opportunities to work together on issues pertaining to agriculture and the environment.

4:00 p.m.  

ADJOURN

Session Summary:

DE Pesticide Certification Credits: 2.0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 2.0
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: 0
Wednesday, January 15, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:00 p.m.</td>
<td>Lite Dinner Provided to Registered Attendees</td>
</tr>
<tr>
<td>6:00 p.m.—6:10 p.m.</td>
<td>Welcome and Introductions</td>
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<tr>
<td>6:10 p.m.—6:30 p.m.</td>
<td>Soil Health on Leased Acres—Keys for Success</td>
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<td>Sarah Everhart, University of Maryland Ag Law Education Initiative</td>
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<tr>
<td>6:30 p.m.—7:30 p.m.</td>
<td>5 Ways to Speed up the Payoff for your Soil Health Management System</td>
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<td>Hans Kok, Program Agronomist, Indiana In-Field Advantage</td>
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<tr>
<td></td>
<td>Dan Towery, Crop Consultant, Ag Conservation Solutions</td>
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<tr>
<td>7:30 p.m.</td>
<td>BREAK</td>
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<tr>
<td>7:40 p.m.—8:40 p.m.</td>
<td>The Steinlage Way: Keep a Living Plant on the Soil 365 Days a Year</td>
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<td>Loran Steinlage, Owner and Operator, FLOLO Farm in Iowa</td>
</tr>
<tr>
<td>8:40 p.m.</td>
<td>QUESTIONS/ADJOURN</td>
</tr>
</tbody>
</table>

Lite dinner to be served. Attendees can register for the workshop by calling the district office at 302-856-3990, ext. 3 or by emailing bobbi.heck@de.nacdnet.net or online at www.sussexconservation.org by January 10, 2020.

Session Summary:
DE Pesticide Certification Credits: 1.0
MD Pesticide Certification Credits: 0
DE Nutrient Management Credits: 2.0
MD Nutrient Management Credits: 2.0
Certified Crop Advisor Credits: SW:2.0
Wednesday, January 15, 2020

6:00 p.m.—6:15 p.m.  
Welcome and Introductions

6:15 p.m.  
DINNER

6:45 p.m.—7:05 p.m.  
Current Poultry Disease Threats for Backyard Flocks in Delmarva  
Dr. Daniel Bautista, Veterinarian, Lasher Lab, University of Delaware

7:05 p.m.  
BREAK

7:15 p.m.—7:45 p.m.  
Eggs and Laying Hens  
Maegan Perdue, Agent Associate-Agriculture, University of Maryland

7:45 p.m.—8:15 p.m.  
Small Flock Biosecurity  
Georgie Cartanza, Poultry Extension Agent, University of Delaware

8:15 p.m.—8:45 p.m.  
Back to Basics—Raising a Backyard Flock  
Dr. Jonathan Moyle, Poultry Specialist, University of Maryland

8:45 p.m.—9:00 p.m.  
Questions and Discussion

9:00 p.m.  
ADJOURN

This evening’s catered meal was sponsored through a cooperative agreement between the Delaware Department of Agriculture and USDA, APHIS, Veterinary Services.

Please RSVP by January 8, 2020 to Lori O’Connell at lori.oconnell@delaware.gov or 302-698-8589 if you plan to attend, so we can plan accordingly for meals and materials and to accommodate any special needs.

Session Summary:  
DE Pesticide Certification Credits: 0  
MD Pesticide Certification Credits: 0  
DE Nutrient Management Credits: 0  
MD Nutrient Management Credits: 0  
Certified Crop Advisor Credits: 0
Free Health Screenings, Information and Services
Monday
3:00 p.m. – 7:00 p.m.

Tuesday-Thursday
10:00 a.m. – 2:00 p.m.

Beebe Population Health
Dover Building
Blood Pressure Screening
Glucose Screening
Cholesterol Screening
Bone Density Screening
BMI

For questions, please contact
Reba Tappan at 302-645-3337.
Thursday, January 16, 2020

Moderator: Jake Jones, Extension Agriculture Agent, University of Delaware

8:45 a.m.—9:15 a.m.
Hemp Production 2020
Jessica Inhof, Plant Industries Program Administrator, Delaware Department of Agriculture

9:15 a.m.—9:55 a.m.
Soil Fertility, Cover Crops and Precision Agriculture Research
Dr. Jarrod Miller, Extension Agronomist, University of Delaware

9:55 a.m.—10:35 a.m.
Field Crops Insect Pests Update
Dr. David Owens, Extension Entomologist, University of Delaware

10:35 a.m. BREAK/VISIT WITH EXHIBITORS

10:50 a.m.—11:45 a.m.
Update on U.S. Agricultural Trade Agreements
Ted McKinney, Under Secretary of Agriculture for Trade and Foreign Affairs, USDA

11:45 a.m.—12:00 p.m.
Delaware Soybean Board Remarks and Yield Contest Awards
Cory Atkins, Chairman, Delaware Soybean Board

12:00 p.m. LUNCH
Ted McKinney
Under Secretary for Trade and Foreign Agricultural Affairs
United States Department of Agriculture

Ted McKinney serves as the U.S. Department of Agriculture (USDA) Under Secretary for Trade and Foreign Agricultural Affairs. Under Secretary McKinney leads the development and implementation of the Department’s trade policy, oversees and facilitates foreign market access, and promotes opportunities for U.S. agriculture through various trade programs and high-level government negotiations.

In 2014, McKinney was appointed by then-Governor Mike Pence to serve as Director of the Indiana State Department of Agriculture, a position he held until joining USDA in 2017. His career also included 19 years with Dow AgroSciences and 14 years with Elanco, a subsidiary of Eli Lilly and Company, where he was Director of Global Corporate Affairs. His industry and civic involvement has included service on the National FFA Convention Local Organizing Committee, Indiana State Fair Commission, and Purdue College of Agriculture Dean's Advisory Council, as well as on the boards of directors of the International Food Information Council, the U.S. Meat Export Federation, and International Federation of Animal Health.

McKinney grew up on a family grain and livestock farm in Tipton, Indiana, and was a 10-year 4-H member and an Indiana State FFA Officer. He graduated from Purdue University with a B.S. degree in Agricultural Economics in 1981. In 2002, he was named a Purdue Agriculture Distinguished Alumnus, and in 2004, received an FFA Honorary American degree. He and his wife, Julie, have three children and four grandchildren.
Thursday, January 16, 2020

AGRONOMY/SOYBEAN SESSION

SESSION CHAIR: JARROD MILLER

Moderator: Jarrod Miller, Agronomy Specialist, University of Delaware

1:15 p.m.—2:00 p.m.
Update on Fertigation Research
Dr. Cory Whaley, Extension Agriculture Agent, University of Delaware

2:00 p.m.—2:45 p.m.
Weed Management in Field Crops Update
Dr. Mark VanGessel, Extension Weed Science Specialist, University of Delaware

2:45 p.m. BREAK/VISIT WITH EXHIBITORS

3:05 p.m.—3:20 p.m.
Downforce Trials on Delaware Soil Types
James Adkins, Irrigation Engineer, University of Delaware

3:20 p.m.—4:05 p.m.
Field Crops Disease Management Update
Dr. Alyssa Koehler, Extension Plant Pathologist, University of Delaware

4:05 p.m.—4:20 p.m.
2018 Farm Bill Update—Commodities Programs
Robin Talley, District Director, USDA-Farm Service Agency

4:20 p.m. ADJOURN

Session Summary:
DE Pesticide Certification Credits: 2.0
MD Pesticide Certification Credits: 4.0
DE Nutrient Management Credits: 1.0
MD Nutrient Management Credits: 1.0
Certified Crop Advisor Credits: NM:0.5, PM:1.0
The Delaware Urban Farm and Food Coalition presents

Local Projects, Big Impact

The Delaware Urban Farm and Food Coalition (DEUFFC) brings together resources and technical assistance through a collaborative approach to urban farming, all the while aiming to increase access to fresh, nutritious, locally-grown food to help build healthier, sustainable communities. Join us during Ag Week for an evening of information, networking, and inspiration. This evening will feature a panel discussion of diverse projects and highlight individuals and organizations working together to support community-oriented urban agriculture projects in Northern Delaware. Learn how local projects are having a big impact on the communities they serve, and connect with like-minded individuals.

Join the DEUFFC on Thursday, January 16, 2020, 5-8 p.m. at the Delaware Center for Horticulture, 1810 N. DuPont Street, Wilmington, Delaware. Refreshments will be served.

Pre-Registration is Required at
https://www.thedch.org/activities-events/calendar-events/2020-01

For more information contact
Carrie Murphy, Extension Educator
cjmurphy@udel.edu
302-831-2506
THE DELAWARE COUNCIL OF FARM ORGANIZATIONS

presents

A NIGHT TO CELEBRATE DELAWARE AGRICULTURE

THE 49TH AGRICULTURAL INDUSTRY DINNER IS A CELEBRATION OF ONE OF DELAWARE’S LARGEST INDUSTRIES.

JANUARY 23, 2020

A TIME FOR FELLOWSHIP, NETWORKING, AND SHARING DELAWARE’S AGRICULTURAL STORY WITH STATE LEGISLATIVE, EXECUTIVE, AND CONGRESSIONAL LEADERS.

SPONSORSHIP

<table>
<thead>
<tr>
<th>Sponsorship Level</th>
<th>Amount</th>
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<tr>
<td>Platinum</td>
<td>$1,000</td>
</tr>
<tr>
<td>Gold</td>
<td>$500</td>
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<tr>
<td>Silver</td>
<td>$200</td>
</tr>
<tr>
<td>Bronze</td>
<td>$100</td>
</tr>
</tbody>
</table>

Platinum sponsorship includes 6 tickets to event, prime seating, and recognition at the event.

Gold, Silver, and Bronze sponsors will be recognized at the event, tickets not included with these sponsorship levels.

Sponsorship Deadline January 8.

REGISTRATION

Early Bird Discount  Register by January 3.
Individual: $65  Group Reservation (10 seats): $600

Regular Rate  Register by January 9.
Individual: $70  Group Reservation (10 seats): $650

JANUARY 23, 2020 AT 5:00 P.M.
DOVER DOWNS HOTEL & CASINO

REGISTER & PAY ONLINE:
AGINDUSTRYDINNER.EVENTBRITE.COM
If you are involved in an agriculture industry, don't miss this opportunity to take a good look at your business and plan for the future through our Annie's Project or Managing for Today and Tomorrow business-focused classes!

Join over 600 women from Delaware and Maryland since 2008 — Be an Annie's Project Graduate!

2020 REGISTRATION is Open!

For class information and to register, visit the website: www.extension.umd.edu/annies-project

Annie’s Project is designed to educate, engage and empower women in agriculture. This course is a discussion-based workshop bringing women together to learn from experts in production, financial management, human resources, marketing and the legal field.

There is plenty of time for questions, sharing, reacting and connecting with your presenters and fellow participants. It’s a relaxed, fun and dynamic way to learn, grow and meet other women in agriculture. The target audience is women in agriculture with a passion for business and involvement in the farm operation.

Topics include:
- Business Planning
- Farm Resources
- Marketing
- Regulations and Legal Issues
- Farm Insurance
- Financial Planning
- Estate Planning
- Computer and Information Systems

Check our website, as new classes are added often!

For further information, contact:
Delaware's Annie's Project: Tracy Wooten at wootten@udel.edu or 302-856-7303

Maryland's Annie's Project: Shannon Dill at sdill@umd.edu or 410-822-1244

~ HOPE TO SEE YOU IN OUR 2020 CLASS ~

/MidAtlanticWomenInAgriculture
Women in Agriculture
Regional Conference

Women across the region coming together to
EDUCATE, ENGAGE, EMPOWER

FEBRUARY 13, 2020
will mark our 19th Annual MidAtlantic Women In
Agriculture Regional Conference

The conference goals are to offer women who are
involved with agriculture an opportunity to come together
to learn about current issues and topics so they can make
informed decisions concerning their agribusinesses and
family lives. Sessions will cover topics in marketing,
financial, production and legal.

Preconference, February 12, with your choice of topic
* Farm Stress Management * Farmers Market Training

Location:
Dover Downs Hotel & Casino
Dover, Delaware
"room rates available"

Registration is open:
www.extension.umd.edu/womeninag
Early Bird Pricing Available until 12/31/19

For further information, contact:
Shannon Dill at sdill@umd.edu or (410) 822-1244

~ HOPE TO SEE YOU AT OUR 2020 CONFERENCE ~

Wednesday Webinars
2nd & 4th Wednesday of each month

Free seminar hosted online and open to all.
Webinar topics will cover the 5 areas of legal risk.
For more information, visit our website.
www.extension.umd.edu/womeninag/webinars

@MidAtlanticWIA
Dairy Day

February 20, 2020
Hartly Fire Hall
2898 Arthursville Road
Hartley, DE 19953

For more information, contact:

Daniel Severson
302-831-8860
or
severson@udel.edu
Driving Directions to State Fairgrounds:

From Wilmington/Philadelphia:
Take I-95 South toward Baltimore. Merge onto DE Rt. 1 South via exit number 4A toward Christiana/Mall Road (portions toll). Exit 97 to 13 Salisbury/Norfolk. Bear left onto US Route 13 South; follow South toward Harrington. After passing over DE-14, look for the fairgrounds on the right.

From Baltimore/Washington, D.C.:

From Salisbury, Md.:
From US-50, take US-13 North. Follow US-13 North through Laurel and Seaford. Fairgrounds are located 4 miles north of Farmington on your left. Turn left onto Tower Road and immediately turn right onto the fairgrounds.

Delaware State Fairgrounds
644 Road 316, Harrington, DE 19952