

Ag Progress Days



PennState
College of Agricultural Sciences

PROGRAM GUIDE

48
ANNIVERSARY
AG PROGRESS DAYS
AT THIS SITE

August 13–15, 2024

Russell E. Larson Agricultural Research Center
Rock Springs, PA

Tuesday 9:00 a.m.–5:00 p.m.
Wednesday 9:00 a.m.–7:00 p.m.
Thursday 9:00 a.m.–4:00 p.m.

apd.psu.edu



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Hello and Welcome!

I am humbled and grateful to greet you today as the new dean of the College of Agricultural Sciences. It is my great pleasure to welcome you to Ag Progress Days 2024!

For those of you who do not know me, I grew up in Bucks County, Pennsylvania, working on a variety of farms and in construction. This led me to pursue my education at Penn State, starting at a commonwealth campus. This decision started me on a wonderful career journey. I am committed to working with our outstanding faculty, staff and students alongside our stakeholders throughout the state to ensure that the impact of the college continues to grow and evolve to meet the demands of today and tomorrow.

Ag Progress Days has a long history of showcasing our agricultural industries and the science, technology and educational programs that help drive their successes. This year's expo is bound to add another chapter to that impressive legacy.

Ag Progress Days provides those of us in the college a chance to interact in person with many of our industry, government and other stakeholders who may already know us well. But one of the greatest values of the event is the opportunity it provides for us to engage with those who may not know us well and who may be surprised at the breadth of the college's research, extension and academic programs. It's important to us that you understand how the public investment in your land-grant institution is helping to make agricultural production more profitable and sustainable; to make communities and ecosystems more resilient; and to keep food safe and people and animals healthy.

A critical role we play in the college is to look over the horizon to anticipate and prepare for future challenges and to create new opportunities for economic growth and human thriving in the commonwealth. We do this through research, extension programming and training the next generation with the skills needed to lead, expand and diversify opportunities in the agricultural sector and with natural resource management.

As you traverse the Ag Progress Days grounds, we encourage you to explore as many of the exhibits, tours, workshops, and presentations as you can. You'll find commercial exhibits, field demonstrations, gardening advice, food demonstrations, horse exhibitions, and activities for kids. Be sure to visit the Pasto Agricultural Museum for a hands-on look at the history of farming and rural living. And when you need a break, check out the nonprofit and commodity-group food vendors ready to serve you some of Pennsylvania's bounty.

If you have questions or need directions, stop at the information booth near the top of Main Street, and staff there will be happy to guide you.

Enjoy your day, and thanks for coming!



Troy Ott, Dean

Penn State College of Agricultural Sciences

General Information

ATM Machine: Located in the Farm Credit Building at the corner of Main and West 6th Streets.

Disability Services: Golf carts, paid in part by a sponsor Lancaster Farming, will be available at the Ag Alumni Pavilion at West 11th and Main Street. They are made available on a first-come, first-served basis for two-hour increments to individuals with medical needs, and drivers must be 18 years or older. A limited supply of scooters will be available for rent from T & B Medical on West 9th Street.

Information Booth: Located at Main Street and across from West 10th Street. Lost-and-found items are kept at the Information Booth. Lost children and adults should contact security personnel on the grounds or report to the Information Booth.

Medical Services: A first aid station is located in the headquarters (white farmhouse) at Main and West 10th Streets. Emergency medical technicians and an ambulance are on site during show hours. Access emergency assistance by dialing 911 or contact security personnel on site.

Pets: Service animals assisting individuals with disabilities are generally permitted in all facilities and programs. University policy prohibits pets in buildings, tents, and on the show grounds.

Portable toilets and hand-washing stations: Facilities are located throughout the grounds (see map). In addition, handicap restroom facilities and infant changing tables are also available in the Special Events Building and Pasto Museum.

Recycling: Please help support Penn State's recycling efforts. Use the blue recycling containers throughout the grounds. These containers are for plastic bottles and mixed paper.

DISCLAIMER: Machinery, equipment, products, and services provided are for educational purposes. Their presence does not imply endorsement or recommendation by Penn State.



Penn State College of Ag Sciences featured units

in the College Exhibits Building:

- **Department of Entomology** — Spotted Lanternfly
- **College of Agricultural Sciences Office for Research and Graduate Education along with the Institute for Sustainable Agricultural, Food and Environmental Science** — Technology for Ag and Living Systems
- **Departments of Animal Science, Veterinary & Biomedical Sciences along with Penn State Animal Systems Extension** — Animal Health Issues

Daily Presentations at the College Theater (CT) posted on the Schedule of Events will cover topics such as:

- **10:30 a.m. Daily:** Native Bee Pollinator Research with Extension Master Gardeners
- **11:00 a.m. Daily:** Technologies to advance Agriculture and Living Systems in dairy, soil health and sustainability of controlled environments
- **11:30 a.m. Daily:** Animal Health Management Updates on High Pathogen Avian Influenza and Animal Production
- **Noon Daily:** Education on Spotted Lanternfly 101

Special Presentations on the Grounds

Ag Progress Days Town Hall Session with Dean Troy Ott and Secretary Russell Redding

Tuesday, August 13, 10:00 a.m. to 11:00 a.m.

Location: Red Barn Annex

Register for the Zoom Session: <https://psu.zoom.us/j/94081326471>

Please join us at Ag Progress Days for a Town Hall Session with College of Ag Sciences Dean Troy Ott and Pennsylvania Department of Agriculture Secretary Russell Redding. They will discuss the current state of Pennsylvania agriculture, including emerging issues and opportunities, with a focus on the implications of Highly Pathogenic Avian Influenza in dairy. A question and answer session will take place after opening remarks.

PA Department of Agriculture Farm Progression Planning Panel Discussion

Tuesday, August 13, 1:00 p.m. to 2:30 p.m.

Location: Red Barn Annex

PA Department of Ag and their partners will discuss resources, support services, and why Farm Progression Planning is important for the future of PA Agriculture.

Washington D.C. Updates from Congressman Glenn “GT” Thompson, Chairman of U.S. House Agriculture Committee

Wednesday, August 14, 2:00 p.m. to 3:30 p.m.

Location: College Exhibits Building Theatre Area

This public event will be hosted by Congressman Glenn “GT” Thompson of Pennsylvania’s 15th Congressional District, the Chairman of the U.S. House Agriculture Committee. He will provide attendees with the latest updates from Washington and highlight the solutions the House Agriculture Committee is working on reauthorize the Farm Bill. After, attendees are encouraged to participate in a Q&A session.

Joint Informational Meeting of the House and Senate Agriculture and Rural Affairs Committees

Wednesday, August 14, 10:00 a.m. to noon

Location: Red Barn Annex





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Mapping and Booth Label Reference Guide

Exhibitors have specific booth numbers assigning them to their location to connect with our interactive map. Click the exhibitor booth from the online map to search for more information about the company. Booth labels identify the building, tent, or area with the first one or two letters coded for the name of a location; see Locations Abbreviation Key (at the right).

Indoor exhibits located in the building or tent are numbered from the entrance, beginning with the hundred number indicating rows 1 through 5, with the higher numbered booth typically on the southern side of the exhibit tent or building.

Outdoor exhibit booth labels use the first letter or letters to identify if they are located East (E) or West (W) of Main Street or are located on Main Street (M). In addition, outdoor exhibit booth labels use the border streets of Demo Alley (DA) and Harrington Lane (H) as noted on the map. The first one or two numbers identify the street on which they are located, streets 1 through 13. Typically the exhibitor booth space numbers on the north side of street are even and those on the south side are odd numbers.

NEW THIS YEAR is meeting area on W. 9th Street, Meeting Area (W906), to host classroom trainings such as pesticide and manure broker credits.

Locations Abbreviation Key for Exhibits

ABBREV	AREA	LOCATION
A	Farm Credit Building	Main and W. 6th St.
AM	PA One Stop/Ag Map Tent	Harrington Lane
AT	Antique Tractor Display	Main and E. 5th
C	College Exhibits Building	Main and W. 10th St.
CT	College Exhibits Building Theater	Main and W. 10th St.
CC	Penn State Cover Crops	Harrington Lane and E. 5th St.
CEA	Conservation Exhibit Area	Harrington Lane
CM	Maze Area, Corn/Sunflower	Harrington Lane and E. 5th St.
CS	Ag Pavilion (Courtesy Golf Cart Services)	Main and W. 11th St.
D	Dairy and Livestock Tent # 1	W. 12th St.
EB	Equine Exhibit Building	W. 13th and Arena
EC	Everett Cash Mutual Building	Main and W. 6th St.
ED	Equipment Demonstration Areas	See Equip. Demo Map
F	Family Building	W. 9th St. and Main
FF	American National Learning Center	E. 9th St. and Main
G	Exhibit Building # 2	E. 5th St.
HS	Rural Health and Safety Tent	Demo Alley and W. 6th
J	Joseph D. Harrington Building	Harrington Lane
L	Dairy and Livestock Tent # 2	W. 13th St.
MH	Main Horse Arena	Main St. and W. 13th St.
P	Pasto Museum	Main St. and E. 9th St.
PDA	PA Dept. of Agriculture Exhibit Building	W. 10th St.
PFB	PA Farm Bureau Exhibit Building	E. 5th St.
RB	Red Barn Annex	Main St.
S	Special Events Building	Main St.
SC	Shaver's Creek Tent	Main and W. 8th St.
SD	Ag Safety Demonstration Area	Demo Alley
T	Tours	Main and E. 11th St.
V	Potato and Small Equipment Demo Area	Demo Alley and W. 10-12th St.
Y	Youth Building	W. 8th St.
YG	Yard and Garden Area	W. 11th St.



Exhibitors and Location

Company Name	Booth Label	
12 POINT HUNTING BLINDS	W10-124	
1ST CHOICE SEEDS	E619	
A		
A.M. LOGGING	EC303	
AAA WEEKS	D301	
ABC YORK	E611	
ABILENE MACHINE	EC311	
ACCURATE AG DRONES	W926	
ACRES PROJECT	L209	
ADAMS SUPPLY	W848	
ADV. COMPOSTING TECHNOLOGIES	W11-106	
ADV. PROCESS CONTROLS	D212	
AG LEADER	W218	
AG-COM	W404, W307	
AGRI SPRAY DRONES	L106	
AGRI-APPLICATORS	W319	
AGRI-DOOR	W10-114	
AGRI-KING	W909	
AGRI-NUTRITION CONSULTING	L301	
AGRI-PLASTICS MFG	W856	
AGRITEER	E117	
AGRI-TRAC US	D101	
AGROECOPOWER	W918A	
ALL AROUND FENCE	W528	
ALLEGHANY FARM SERVICES	W11-108	
ALLEGHENY AG	W833, W920	
ALLENSVILLE PLANING MILL/YBC	W101	
AMERICAN ANGUS ASSOCIATION	D109	
AMERICAN NATIONAL INSURANCE	EC506	
ANDERSON GROUP	W303	
ANTIQUE TRACTORS	M101	
APEX FABRICATION	W11-109	
AUTOMATIC FARM SYSTEMS	E321	
AXIOTA ANIMAL HEALTH	L310	
B		
B & R FARM EQUIPMENT	W547	
BAILEY'S INC	W330	
BAKER LIME BY RHI MAGNESITA	A312	
BARE WEALTH ADVISORS	EC308	
BEADBUSTER	L102	
BECO EQUIPMENT	W121	
BEILER - CAMPBELL REALTORS & AUCTION	A510	
BEST LINE EQUIPMENT	W213	
BLC EQUIPMENT FINANCE	EC305	
BORTEK INDUSTRIES	W217	
BOYD STATION	A505	
BRUBAKER PRECISION SVCS	W824	
BRUTE FORCE DISTIBRUTING	W10-105	
BW FUSION	E605	
C		
C & C SPECIALTIES	W424	
C K MANUFACTURING	W924	
CALLICRATE BANDERS	L109	
CAN-AM	W614	
CASE POWER EQUIP.	W841	
CDL USA	E106A	
CEDAR CREST EQUIPMENT	E528	
CENTRAL PA FOOD BANK	L210	
CENTRAL PA INSTITUTE OF SCI	E106B	
CENTRAL PETRO CO	W510	
CHEMGRO	E628	
CHESAPEAKE BAY FOUNDATION	J301	
CHRISTIAN FARMERS OUTREACH	EC115	
CITIZENS FOR PA FUTURE	CEA13	
CLARKS AG SUPPLY	W927	
CLEAN CUTTER FLAIL & TILLER BLADE	EC112	
CLEANFIX NORTH AMER	E114	
CLEARWATER CONSERVANCY	J307	
CLEVELAND BROTHERS	E105	
CLOVERDALE EQUIPMENT	E525	
CONESTOGA MFG	W415	
CONKLIN CO	A307	
CONTINENTAL TIRE	EC508, EC101	
CORAL REEF PARTNERS	A512	
COUNTRY CLIPPER/SHIVVERS	W222	
COUNTRY FOLKS	D317	
CROPCARE	W915	
CROWN ROYAL STOVES / GREENTECH	E211	

(continued on next page)

Exhibitors and Location

CTR FOR BEEF EXCELLENCE..... EC510
 CTR FOR DAIRY EXCELLENCE D106
 CTR FOR RURAL PAA408

D

DAIRY ONED305
 DALE OXYGENW214
 DBC AG PRODUCTS/ LIRA GOLD.....L101
 DEEP VALLEY FARMD118
 DEER COUNTRY FARM & LAWN.....W625
 DELAVAL..... W11-101
 DEUTZ-FAHR AMER W844
 DILLER AG EQUIPMENTW411
 DION-AG H103
 DOTTERER EQUIPMENT E316
 DOUBLE B STORE..... W10-107

E

E M HERR EQUIPW509
 E. RISSLER MFG.....W916
 EARTH & SKY SOL/RED
 DRAGON EQUIP.....EC406
 EASTERN STATES LIVESTOCK
 SYST.....W10-115
 ELEMENT RISK MANAGEMENTEC405
 ELITE NUTRITION.....D309
 EMM SALES & SERVICEW100
 ENERGY PANEL STRUCTURES.....DA126
 ENVINITYW204
 EPHRATA NATIONAL BANK.....EC310
 ERNST SEEDSCEA11
 ESCH HAY EQUIPMENTW418A
 ESH STORAGE BARNW123
 EVERETT CASH MUTUAL
 INSURANCE CO.EC401, EC 201

F

FARMCO MFG.....W419
 FARMER BOY AG.....W518
 FARMERS CHOICE TIRE SERVICEW621
 FEEDWORKS USAL113
 FERTICELLEC104
 FIRST CITIZENS COMM. BANK.....PFB101
 FISHER & THOMPSOND303
 FISHER BROTHERS BUILDERS.....D306
 FIVE POINTS AG SVCS-GRO-MOR ...EC408
 FORD/NEWSCOPE MARKETINGW840
 FOR-MOST LIVESTOCK
 EQUIPMENT.....W409
 FORSHEYS AG & INDUSTRIALH101
 FOSTER F WINELANDW634
 FREEZER'S AUTO PARTS INC.....M114
 FRIENDS OF FARM SHOWPDA111
 FULTON BANK NA.....EC403

G

GEISINGER JERSEY SHORE
 HOSPITALDA136A
 GOODVILLE MUTUAL
 CASUALTY CO.....A405
 GOVERNOR'S YOUTH CNCL/DCNR ...Y103

GRASSWORKS MFG.....W10-108
 GREENPOST/ PLANETSAVER INDL104
 GREENVIEW AGW109
 GROWERS MINERAL CORP.W600
 GROWMARK FS/DEKALBE616
 GVM INCW511

H

H BECKER - WOODCHUCKW402
 HALE TRAILER BRAKE & WHEEL.....W108
 HARTVILLE HARDWARE.....W420
 HEAT SMART/ PORTAGE & MAINW116
 HEATMASTER SS.....W313
 HOARD'S DAIRYMAN.....D205
 HOFFMAN IRRIGATION.....EC302
 HOOBER INC.....W201
 HOOVER TRACTOR.....W522, W423
 HORIZON FARM CREDITA101
 HORIZON ORGANIC DAIRYL108
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I

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 INVEST IN OUR LANDW112, W106
 IVA MANUFACTURINGW323

J

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 JAK REAL ESTATEEC402
 JOE'S MACHINERYW829
 JOHN DEEREW519

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 KEYSTONE BIO AG.....L211
 KEYSTONE CONCRETE PROD.....W919
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 KINGSLEY BLASCO
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 KIOTI TRACTOR.....E517
 KISCO LEASINGW311
 KNG / BLUE SEALL309
 KUBOTA TRACTOR CORP.....E345
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 KULT KRESS.....W836

L

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 LS TRACTOR USA.....W845

M

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 MARTIN TILLE115
 MARTIN TRUCK BODIESE301
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 MCFARLANE MFG COW506
 MD & VA MILK PROD.D207
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 MENSCH MFG.....W407
 MESSICK'S.....E215
 METZLER FOREST PRODUCTSA110
 MEYER MANUFACTURING.....W107
 MIDPENN BANK.....A501
 MILLNER-HAUFEN TOOLA113
 MIRACOW11-116
 MORTON BUILDINGS.....E600
 MOUNT NITTANY HEALTHHS204
 MR. TOOLE100
 MYERS FARM.....W501

N

NACHURSA404
 NATIONAL FARMERS ORG.D206
 NATIONAL WEATHER SERVICEEC109
 NATIONWIDE INSURANCE.....PFB104
 NEW HOLLANDE201
 NEW HOLLAND SUPPLYW111
 NOLTS POWER EQUIP.W408
 NORDEN MFG.....W216
 NORTH CENTRAL SIGHT
 SVCS.....DA134, HS206
 NORTHEAST AGRI SYSTEMS.....W914
 NORTHEAST CENTER.....HS203
 NORTHERN TIER HARDWOOD
 ASSOCJ102
 NUTRIEN AG SOLUTIONSE625

P

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 PA 4-H YOUTH DEVELOPMENTY101
 PA ASSOC CONSERVATION DIST.....J106
 PA ASSOC OF COUNTY FAIRSA109
 PA BEEF COUNCILA302
 PA BUREAU OF ANL HEALTH &
 DIAG SVC.....PDA113
 PA BUREAU OF FARMLAND
 PRESERV.....PDA102
 PA BUREAU OF FOOD ASSIST.....PDA101
 PA BUREAU OF FOOD SAFETY &
 LAB SVCSPDA114
 PA BUREAU OF MARKETS-ABDC...PDA104
 PA BUREAU OF PLANT
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 PA CERTIFIED ORGANICJ309

PA CHAPT. CONSULTING
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 PA CHAPT. OF THE AMER.
 CHESTNUT FDN.....J101
 PA DAIRY PRINCESS &
 PROMOTION.....D201, Y303
 PA DCNR BUREAU OF FORESTRY.....J105
 PA DEPT OF AGRICULTUREM118
 PA DEPT OF CORRECTIONSD108
 PA DEPT.OF ENVIRONMENTAL
 PROTECTIONJ401
 PA EQUINE COUNCIL.....EB501
 PA FARM BUREAU.....E512, PFB110
 PA FARM LINK.....A412
 PA FARM SHOW- PA DEPT OF AG ...EC103
 PA FB AG PROMOTION COMMPFB126
 PA FB FRIENDS OF AG FNDN.....PFB125
 PA FB GOV AFFAIRS &
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 PA FB MEMBER SERVICES.....PFB123
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 PA SIMMENTAL ASSOC.L201
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 PA TREASURY BUREAU OF
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 PA VEGETABLE GROWERS ASSOC...EC105
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Exhibitors and Location

PENNAG-CTR. POULTRY & LIVESTOCK.....	A106
PENNTAP.....	A410
PENNVEST.....	A506
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PHOSPHOLUTIONS.....	J110
PIK RITE.....	W507
PINE CREEK SEED FARM.....	E632
PINE HILL MFG/TRAILER.....	E513
PIONEER CORTEVA.....	E624
PIVOT BIO.....	W808
PJ SPREADING.....	D116
POETTINGER US.....	E110
POUST OUTDOOR FURNACE.....	W11-124
PRECAST SYSTEMS.....	W401
PREVENTION HEALTH SCREENINGS.....	HS103
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PRO FLEET CARE.....	W114
PROFENCE.....	W317
PROSSER POWER GROUP.....	W223
PROVITA ANIMAL HEALTH.....	D203
PSI POWER.....	W10-130B
PSU AG & SHALE LAW CENTER.....	A509
PSU AG ANALYTICAL SERV LAB.....	J109
PSU AG AND ENVIRON CENTER.....	J407
PSU AG SAFETY & HEALTH.....	DA140
PSU AG SCIENCES UNDERGRAD ED.....	C105
PSU AGRABILITY/HEALTH SCREENING.....	DA136B, HS201
PSU BEE EXTENSION & RESEARCH.....	YG101
PSU BUTTERFLY TENT.....	YG204
PSU CTR. FOR AG CONSERVATION ASSISTANCE.....	CEA06
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PSU EQUINE SCIENCE PROGRAM.....	EB104, EB208, EB506
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PSU EXT FFH VECTOR BORNE DISEASE.....	F203
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PSU EXT FOOD SAFETY & PRESERVATION.....	F205
PSU EXT FORESTRY & CTR. for PRIV. FORESTS.....	J107
PSU EXT HEALTH & WELLNESS.....	F201
PSU EXT MASTER WELL OWNER NETWORK.....	J404
PSU EXT WATER RESOURCES.....	J410



PSU EXT. AG BUSINESS & RISK MGMT.....	A507
PSU EXT. BIOFUELS ENERGY GROUP.....	J408
PSU EXT. ENERGY, BUS.,COMMUNITY/MCOR.....	J300
PSU EXT. FAMILY WELL BEING.....	F103, F104
PSU HAY SHOW.....	J111, J113, J211
PSU MASTER GARDENERS.....	YG201
PSU ON-FARM RESEARCH.....	J109A
PSU PA ONE STOP.....	CEA01
PSU PA POTATO GROWERS.....	V100
PSU PESTICIDE EDUCATION.....	F101
PSU PLANT PATHOLOGY & ENVIR. MICRO.....	Y104
PSU PLANT SCIENCE WEED ID.....	J207
PSU PRESS.....	M121
PSU SUSTAINABLE AG.....	J412
PSU TECH FOR AG & LIVING SYSTEMS.....	C303
PSU YARD & GARDEN DEMO AREA.....	YG104

Q QUALITY CRAFT TOOLS.....	EC513
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R REINECKER AG.....	D313
RHINOAG.....	E200
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ROC MERGERS.....	E209
RODALE INSTITUTE.....	J308
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SMUCKER WELDING SHOP.....	W206
SMUCKER'S ENERGY.....	W903
SONES GRAIN SYSTEMS.....	W508
SPEECO - GARDNER.....	W10-119A, L208
STAR-DUST ELECTRIC.....	W922
STEINER HARTMAN.....	W417
STEIN-WAY EQUIPMENT.....	W129
STEPHENSON EQUIPMENT.....	W10-130A
STEVENS FEED MILL.....	D316
STOLTZFUS SPREADERS.....	W605
STOR-LOC.....	EC306
SUBURBAN PROPANE.....	W918B
SUKUP MANUFACTURING.....	W412
SUMMIT HILL WELDING.....	W211
SUREPOINT AG SYSTEMS.....	W316
SUSTAINABLE ENERGY FUND.....	A114
SYNGENTA.....	E529

T T&B MEDICAL.....	W901
TALLMAN AERIAL SPRAYING.....	W828
TAM SYSTEMS.....	E505
THE FERTRELL COMPANY.....	D208
THE LANDS AT HILLSIDE FARMS.....	Y304
THE PRO BARN SAVER.....	L203
TRACTORHOUSE/AUCTIONTIME.....	W515
TRIOLET.....	E116
TRIPLE-HIL SIRES.....	D105
TROOP EQUIPMENT.....	W422

TWILIGHT RENEWABLES.....	L207
TWIN CLOVER EQUIPMENT.....	E325
TWIN VALLEY FARM SERVICE.....	W403

U UNVERFERTH MFG.....	W610
UPWARD BROADBAND.....	W909A
US EPA.....	J403
US FDA ORA.....	EC504
USDA APHIS WILDLIFE SERVICES.....	J304
USDA FARM SERVICE AGENCY.....	A502, J200
USDA NAT RESOURCES CONSERV.....	J205
USDA NAT. AG. STATISTICS SERVICE.....	J201
USDA NAT'L APPEALS DIV- NAD.....	EC512
USDA RURAL DEVELOPMENT.....	A503
USDA-ARS.....	J203

V VALLEY AG SOFTWARE.....	D211
VALMETAL USA.....	E313, E317
VERMEER.....	W425

W WARRIORS MARK FENCING.....	W10-117
WEAVERLINE.....	W629
WECOVER STRUCTURES.....	E202B
WEST CENTRAL EQUIPMENT.....	DA122
WESTERN TRAILER SALES CO.....	W11-107
WESTFIELD AGRIBUSINESS.....	EC503
WHITETAIL CONSTRUCTION.....	L311
WHITETAIL PROPERTIES REAL ESTATE.....	EC410
WINGFIELD MFG.....	W617
WOOD-MIZER.....	W609

Z ZARTMAN FARMS.....	W10-123
ZEISET EQUIPMENT.....	W11-105
ZEISLOFT FARM EQUIPMENT.....	E102
ZELTEX DINAMICA GENERALE.....	D104
ZIMMERMAN FARM SERVICE.....	W500

Building and Tent Maps

(A) Farm Credit Building (West 6th and Main St.)

SUSTAINABLE ENERGY FUND A114	MILLNER-HAUFEN A113	PERDUE AGRIBUSINESS A112	METZLER FOREST A110	PA ASSOC. COUNTY FAIRS A109	PA PORK PROD. COUNCIL A108	PA SOYBEAN A107	PENNAG POULTRY A106	PENNAG IND. ASSOC. A105	HORIZON FARM CREDIT A101			
BAKER LIME A312		LIQUIDITUBE MARKETING A310		CONKLIN CO A307		PABODY A305	SHOUP MFG A304	PA BEEF COUNCIL A302	LANCASTER FARMING A301			
FARM LINK A412	PA SBDC A411	PENNTAP A410	CTR. RURAL PA A408	KINGSLEY BLASCO INS. A407	GOODVILLE MUTUAL A405	NACHURS A404	PA STATE GRANGE A402					
SCHAEFFER MFG A513	CORAL REEF PARTNERS A512	BEILER-CAMPBELL A510	PSU AG & SHALE LAW A509	PSU EXT. AG BUSINESS & RISK MGMT. A507			PENNVEST A506	BOYD STATION A505	USDA RURAL DEV. A503	USDA-FSA A502	MID PENN BANK A501	ATM

Main Entrance

Main Street

(EC) Everett Cash Mutual Building (West 6th and Main St.)

CHRISTIAN FARMERS EC115	CLEAN CUTTER EC112	INTEGRITY CONSTR EC111	NATIONAL WEATHER SVC EC109	SHIPLEY ENERGY EC107			FERTICELL EC104	PA FARM EC103	CONTINENTAL TIRE EC101
ABILENE MACHINE EC311	EPHRATA NATIONAL EC310	BARE WEALTH EC308	STOR-LOC EC306	BUSINESS LEASE CONSULT. EC305	A.M. LOGGING EC303	HOFFMAN IRRIGATION EC302	EVERETT CASH MUTUAL EC201		
WHITETAIL PROPERTIES REAL ESTATE EC410		FIVE PTS. AG SVCS GROW-MOR EC408	EARTH & SKY SOL/RED DRAGON EQUIP EC406	ELEMENT RISK MGMT EC405	FULTON BANK NA EC403	JAK REAL ESTATE EC402	EVERETT CASH MUTUAL EC401		
QUALITY CRAFT EC513	USDA NAT'L APPEALS DIV-NAD EC512	CTR FOR BEEF EXC EC510	PA TREAS. BUREAU OF SAVINGS PROG EC509	CONTINENTAL TIRE EC508	AMERICAN NATIONAL EC506	US FDA ORA EC504	WESTFIELD AGRIBUSINESS EC503	PA MILK MARKETING EC501	

Main Entrance

Main Street

Building and Tent Maps

(J) J. D. Harrington Building (Harrington Lane and E. 5th)

Harrington Lane	PA CHAPT. OF THE AMER. CHESTNUT J101	N. TIER HARDWOOD J102	PA FORESTRY J103	PA FOREST PRODUCTS J104	PA DCONR FORESTRY J105	PA CONSERV. DIST. J106	PSU FORESTRY EXT J107	PSU EXT. FORAGE/ON-FARM J108	PSU ON-FARM RESERACH J109A	PSU AG ANALYTICAL LAB J109	PHOSPHO-LUTIONS J110	HAY SHOW J111	PA FORAGE & GRASS J112	HAY SHOW J113																				
	<table border="1"> <tr> <td>USDA-FSA J200</td> <td>USDA-NASS J201</td> <td>PA GAME COMMISSION J202</td> <td colspan="2">USDA-ARS J203</td> <td colspan="2">USDA-NRCS J205</td> <td>PSU EXT. WEED ID J207</td> <td>PASA SUSTAINABLE AG J208</td> <td colspan="2">PA CHAPT. CONSULT. FORESTERS J209</td> </tr> <tr> <td>PSU EXT. ENERGY BUS. J300</td> <td>CHESAPEAKE BAY FOUNDATION J301</td> <td>PA FISH & BOAT COMMISSION J302</td> <td colspan="2">USDA APHIS WILDLIFE SVCS J304</td> <td colspan="2"></td> <td>CLEARWATER CONSERVANCY J307</td> <td>RODALE INSTITUTE J308</td> <td colspan="2">PA CERTIF. ORGANIC J309</td> </tr> </table>											USDA-FSA J200	USDA-NASS J201	PA GAME COMMISSION J202	USDA-ARS J203		USDA-NRCS J205		PSU EXT. WEED ID J207	PASA SUSTAINABLE AG J208	PA CHAPT. CONSULT. FORESTERS J209		PSU EXT. ENERGY BUS. J300	CHESAPEAKE BAY FOUNDATION J301	PA FISH & BOAT COMMISSION J302	USDA APHIS WILDLIFE SVCS J304				CLEARWATER CONSERVANCY J307	RODALE INSTITUTE J308	PA CERTIF. ORGANIC J309		HAY SHOW J211
	USDA-FSA J200	USDA-NASS J201	PA GAME COMMISSION J202	USDA-ARS J203		USDA-NRCS J205		PSU EXT. WEED ID J207	PASA SUSTAINABLE AG J208	PA CHAPT. CONSULT. FORESTERS J209																								
PSU EXT. ENERGY BUS. J300	CHESAPEAKE BAY FOUNDATION J301	PA FISH & BOAT COMMISSION J302	USDA APHIS WILDLIFE SVCS J304				CLEARWATER CONSERVANCY J307	RODALE INSTITUTE J308	PA CERTIF. ORGANIC J309																									
PA DEP J401	US EPA J403	PSU MASTER WELL NTWK J404	PA GROUND WATER ASSOC. J405	PSU ERSM J406	PSU AEC J407	PSU BIOFUELS & ENERGY J408		PSU WATER RESOURCE J410	PSU SUSTAIN. AG J412																									
Entrance Maze Entrance																																		

W 12th Street

(D) Dairy and Livestock Tent #1 (West 12th St.)

DEEP VALLEY D118	PJ SPREADING D116	LEWIS CATTLE OILERS D114	RODMAN DRILL D113	P. MUELLER D110	VENT	AMER. ANGUS ASSOC. D109	PA DEPT. OF CORRECTIONS D108	CTR. DAIRY EXCELLENCE D106	TRIPLE HILL SIREs D105	ZELTEX D104	PA SHEEP & WOOL D103	AGRI-TRAC D101									
<table border="1"> <tr> <td>ROZELL SPRAYER D213</td> <td>ADV PROCESS CONTROLS D212</td> <td>VALLEY AG SOFTWARE D211</td> <td>THE FERTRELL D208</td> <td>MD & VA MILK PROD. D207</td> <td>NAT. FARMERS D206</td> <td>HOARD'S DAIRY D205</td> <td>PROVITA ANIMAL HEALTH D203</td> <td>DAIRY PRINCESS & PROMOTION D201</td> </tr> </table>													ROZELL SPRAYER D213	ADV PROCESS CONTROLS D212	VALLEY AG SOFTWARE D211	THE FERTRELL D208	MD & VA MILK PROD. D207	NAT. FARMERS D206	HOARD'S DAIRY D205	PROVITA ANIMAL HEALTH D203	DAIRY PRINCESS & PROMOTION D201
ROZELL SPRAYER D213	ADV PROCESS CONTROLS D212	VALLEY AG SOFTWARE D211	THE FERTRELL D208	MD & VA MILK PROD. D207	NAT. FARMERS D206	HOARD'S DAIRY D205	PROVITA ANIMAL HEALTH D203	DAIRY PRINCESS & PROMOTION D201													
LEVI'S CONCRETE GROOVING D318	COUNTRY FOLKS D317	STEVENS FEED MILL D316	REINECKER AG D313	SCHNUPP'S GRAIN D310	ELITE NUTRITION D309	FISHER BROTHERS BUILDERS D306	DAIRY ONE D305	FISHER & THOMPSON D303	AAA WEEKS D301												

Main Entrance

Main Street

(L) Dairy and Livestock Tent #2 (West 13th St.)

FEEDWORKS L113	CALLI-CRATE L109	HORIZON ORGANIC L108	AGRI SPRAY L106	GREENPOST PLANET-SAVER IND L104	BEAD BUSTER L102	DBC AG PROD. L101							
<table border="1"> <tr> <td>KEYSTONE BIO AG L211</td> <td>CENTRAL PA FOOD BANK L210</td> <td>ACRES PROJECT L209</td> <td>SPEECO L208</td> <td>TWILIGHT RENEWABLES L207</td> <td>THE PRO BARN L203</td> <td>PA SIMMENTAL L201</td> </tr> </table>							KEYSTONE BIO AG L211	CENTRAL PA FOOD BANK L210	ACRES PROJECT L209	SPEECO L208	TWILIGHT RENEWABLES L207	THE PRO BARN L203	PA SIMMENTAL L201
KEYSTONE BIO AG L211	CENTRAL PA FOOD BANK L210	ACRES PROJECT L209	SPEECO L208	TWILIGHT RENEWABLES L207	THE PRO BARN L203	PA SIMMENTAL L201							
LEAFFILTER GUTTER PROTECTION L315	SMAXTEC L313	WHITETAIL CONSTRUCT. L311	AXIOTA ANIMAL L310	KENT NUTRITION L309	RISSER GRAIN L306	LANCASTER DHIA L304	AGRI-NUTRIT. CONSULTING L301						

Main Entrance

Main Street

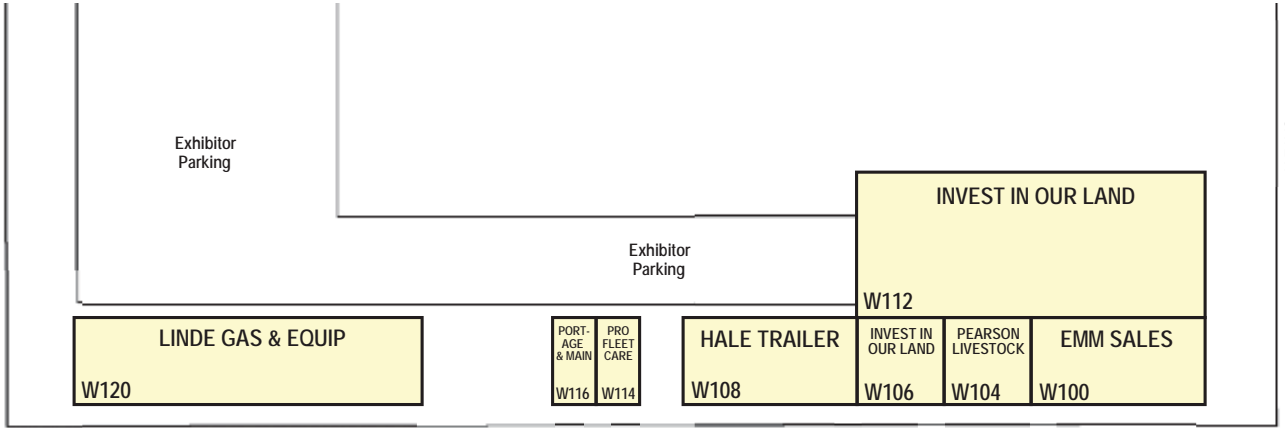
W 13th Street

Ag Progress Days Area Map

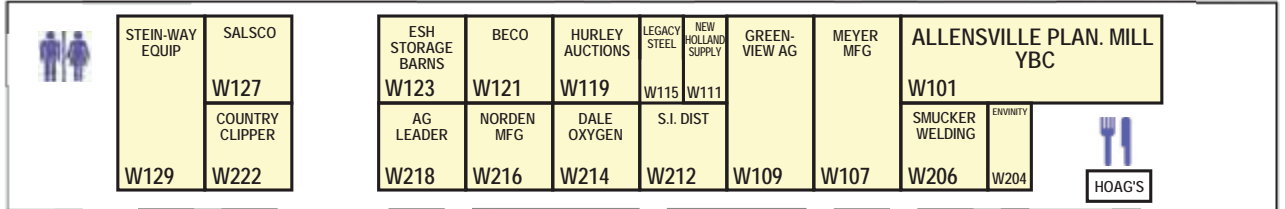
CASE IH

GATE M

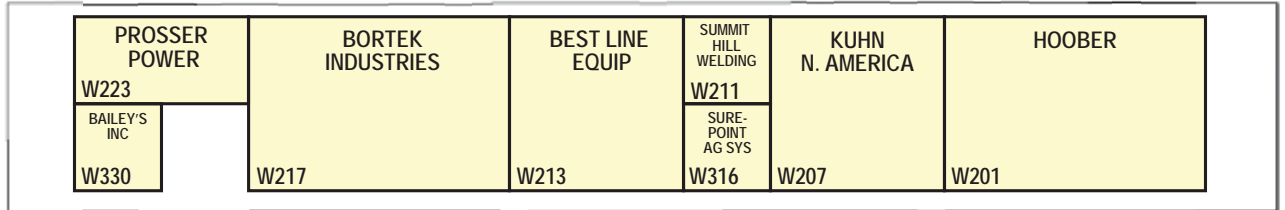
GATE K



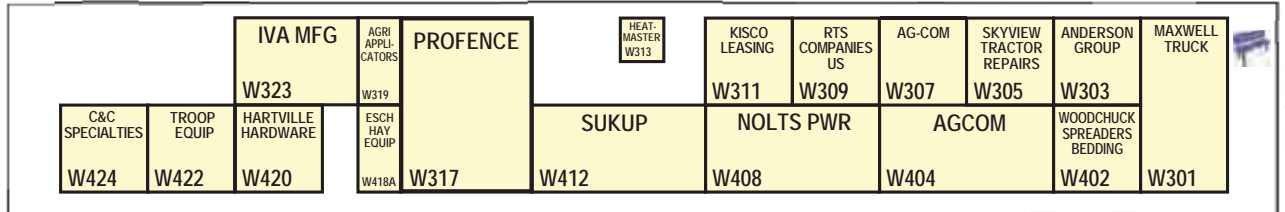
W 1 STREET



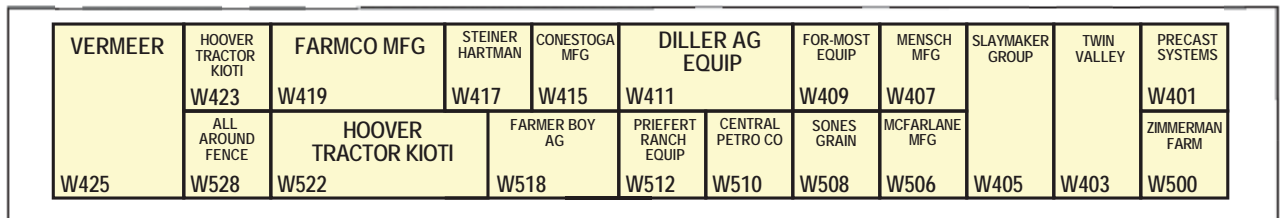
W 2 STREET



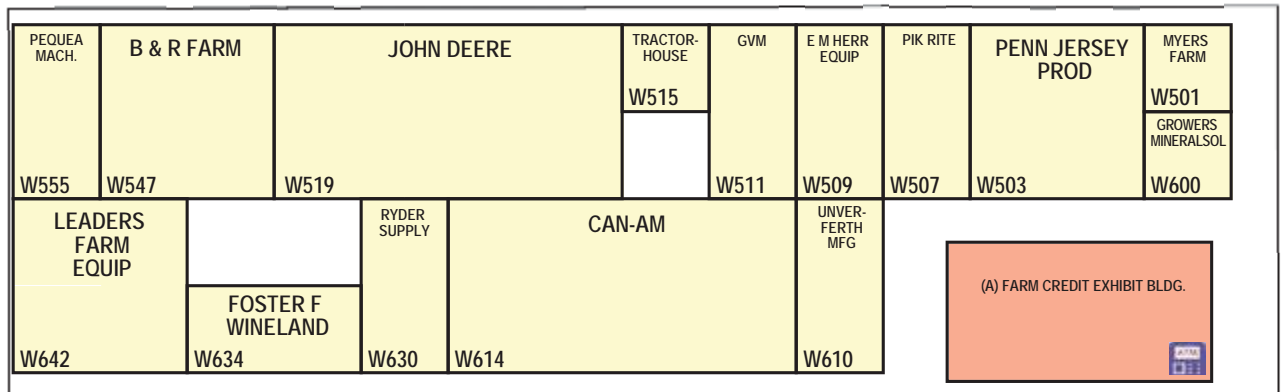
W 3 STREET



W 4 STREET



W 5 STREET



W 6 STREET

DEMO ALLEY

MAIN STREET

WEST CENTRAL EQUIP
DA122

ENERGY PANEL STRUC
DA126

PENN AG INDUSTRIES ASSOC.


LIONMOBILE CLINIC
DA138

NORTH CENTRAL SIGHT SERVICES
DA134

PSU AGRABILITY
DA136B

(A) FARM CREDIT EXHIBIT BLDG.

View Online: <https://agsci.psu.edu/apd/maps>

Click the Maps Icon  on the toolbar in the upper right corner then select bldg/tent you wish to view

AG CO

KUBOTA

GATE J

TRIOLIET

MR. TOOL E100	ZEISLOFT E102	CDL USA E106A	CPI E106B	ROTO-MIX E108	POETTINGER US E110	CLEAN-FIX NA E114	TRIOLIET E116
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E 1 STREET

RHINO AG E200	CLEVELAND BROTHERS E105	JS WOODHOUSE E109	MARTIN TILL E115	AGRITEER E117
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E 2 STREET

NEW HOLLAND E201	ROC MERGERS E209	CROWN ROYAL E211 DOTTERER EQUIP E316	MESSICKS E215
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E 3 STREET

MARTIN TRUCK E301	VALMETAL USA E313	VALMETAL USA E317	AUTOMATIC FARM SYSTM E321	TWIN CLOVER EQUIP. E325	KUBOTA TRACTOR E345
PATZ E500	PENNSYLVANIA FARM BUREAU E512	(G) EXHIBIT BLDG #2		CEDAR CREST E528	MAHINDRA NA E536

E 5 STREET

TAM SYSTEMS E505	PINE HILL MFG E513	KIOTI TRACTOR E517	CLOVER-DALE EQUIP E525	SYNGENTA E529	SEED CONSULTANTS/CORTEVA E533	SEEDWAY E537
ANTIQUE TRACTOR M101		MEHERRIN E612	GROWMARK FS/DEKALB E616	CORTEVA/PIONEER E624	CHEMGRO E628	PINE CREEK SEED FARM E632
MORTON BLDG E600	MEHERRIN E608					

E 6 STREET



FORSHEYS AG

H101

DION-AG

H103

MILLER'S

POLLINATOR GARDEN & GRASSES PLOT

PSU CTR AG CONS ASST
CEA06

NRCS HEAVY USE AREA AND SOIL PIT DISPLAY

PSU PA ONE STOP
CEA01

PENN STATE CROP MGMT
CEA05

ERNST SEEDS
CEA11

PENN FUTURE
CEA13

PHEASANTS FOREVER
CEA04

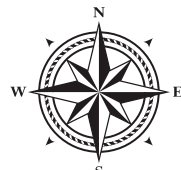
PA NO-TILL
CEA14

HARRINGTON LANE

(J) JOSEPH D. HARRINGTON BLDG.

(CC) PSU COVER CROP PLOT

(CM) CORN MAZE



Map Legend on page 11

Ag Progress Days Area Map





Map Legend

	Commercial Indoor Exhibits		ATM		Loading Dock
	College Exhibits		Baby Changing Station		Lost & Found
	College Buildings		Bus Tour		Mobility Scooter Rental
	Demo Areas		Courtesy Golf Carts		Parcel Pickup
	Available Exhibitor Space		Equipment Demo		Pump House
	Reserved Exhibitor Space		First Aid		Rest Area
	Confirmed Exhibitor Space		Food Vendor		Rest Room
	Non-Electrical Areas		Information Booth		Water

Tours

Hands-on tours highlight various aspects of agriculture. Get a free ticket and board the bus at the tour registration and loading area at the top of Main Street. There are a limited number of tickets available per tour, so stop by early to reserve your seat.

<p>Rural and Farm Pond Management Tour (1 hour)</p>	<p>Pond management for private pond owners offering information on basic pond ecology, site management and water quality. Ponds are prevalent in the Pennsylvania landscape and provide enjoyment to numerous landowners. While some ponds occur naturally, most are dug or dammed by landowners for various purposes. This pond tour is aimed at helping private pond owners make informed management choices for their ponds. The tour will take place at an on-site pond. It will cover essential pond plant identification, how to conduct basic pond water quality tests, how land uses and runoff can affect ponds, and basic pond ecology. Bus leaves daily at 9:00 a.m. Plan to arrive early. Note: No restrooms available; walking on uneven terrain and standing involved; require closed-toe walking shoes.</p>
<p>Open Field and High Tunnel Vegetable Production Research Tour (1 hour)</p>	<p>This tour features ongoing research on the sustainable management of soil health and soilborne pests and pathogens in open field and high tunnel vegetable production systems. Participants will visit open field and high tunnel vegetable research plots and will learn about fresh market tomato and cucumber production: 1) advantages and challenges associated with the use of high tunnels compared to open field production; 2) organic vegetable production systems and associated opportunities and challenges; 3) soil health and Anaerobic Soil Disinfection an innovative biological solution for the management of soilborne pests and pathogens. Members of research and Extension teams will lead the tour and will be available to answer questions. Bus leaves Tuesday at 3:00 p.m.; Wednesday at 9:00 a.m.; and Thursday at 3:00 p.m. Note: Walking on uneven terrain and standing involved. No restrooms available</p>
<p>Managing Livestock Pastures with Alternative Forages (1 hour)</p>	<p>This tour features hands-on activities with cattle on pastures. Producers will leave with an understanding of paddock fencing and watering system components, with in-depth discussion about evaluation of diverse cover crop mixes including rooting structure and soil health indicators. High stock density grazing will be demonstrated with a small herd of cattle, and we'll talk about the use of alternative forages for pasture production. We'll also talk about soil health principles and show how annual forages can be used to renovate a degraded pasture without doing any tillage. Bus leaves Tuesday at 10:30 a.m., 12:30 p.m. and 2:30 p.m.; Wednesday at 10:30 a.m., 12:30 p.m. and 2:30 p.m.; and Thursday at 10:30 a.m. and 12:30 p.m. Note: No restrooms available; walking/standing involved; accessible from the grounds by walking.</p>
<p>Managing Equine Pastures and Drylots (1 hour)</p>	<p>This tour features using horses with hands-on activities in equine pastures. Producers will gain an understanding of improved pasture management for horses, "do's and don'ts" of sacrifice areas, and hear about tools needed to help improve equine operations. We'll walk through the fields and talk about grass and weed identification, innovative pasture methods, and dry lot design for horses on limited acreage at the demonstration site. Bus leaves Tuesday at 10:30 a.m., 12:30 p.m. and 2:30 p.m.; Wednesday at 10:30 a.m., 12:30 p.m. and 2:30 p.m.; and Thursday at 10:30 a.m. and 12:30 p.m. Note: No restrooms available; walking/standing involved; accessible from the grounds by walking.</p>
<p>Multifunctional Stream Buffers and Native Grass Field Tour (1.5 hours)</p>	<p>This NEW site and tour focuses on the importance of planting and maintaining trees and shrubs to create a multifunctional stream buffer that will improve water quality, wildlife habitat, livestock health, property value, and provide edible or medicinal plants. You will learn about the 3 P's of tree establishment-Preparation, Planting, and Protection-to increase tree survival and reduce competition from invasive weeds. See demonstration livestock practices such as fencing and stream crossings and learn about financial assistance programs available. See and learn how to plant native grass fields to increase sustainability and help declining pollinators and beneficial insects. Bus leaves daily at 11:30 a.m. Note: Walking and standing involved. No restrooms available.</p>
<p>Goods From the Woods Demonstration Woods Tour (1.5 hours)</p>	<p>Goods From the Woods is the featured topic for this year's easy woods walking tour. There's lots to learn about the many things we harvest and use from forests, and they are not just different types of wood! Forestry and wildlife professionals will lead the interactive tours and be on hand to answer your questions and connect you with more resources about forests, wildlife and habitat management. Bus leaves Tuesday at 9:00 a.m. and 1:00 p.m.; Wednesday: 9:00 a.m. and 3:00 p.m.; and Thursday: 9:00 a.m. and 1:00 p.m. Note: Walking on trails over uneven terrain/standing involved. No restrooms available.</p>
<p>Animal Research Tours: Finishing Crossbred Beef x Dairy Cattle and American Berkshire Assoc. Progeny Swine (1.5 hours)</p>	<p>Beef x Dairy Cattle Tour: This tour will cover the definition of beef X dairy calves and the current marketplace for those cattle. The tour will include a visual observation of a load of crossbred beef X dairy steers and heifers, being finished at the PA Department of Agriculture's Livestock Evaluation Center. American Berkshire Association Progeny Swine Tour: This tour will lead participants through a window tour of the remodeled swine facilities, overview modern aspects of a swine production operation and discuss the goals of the American Berkshire Association Progeny Test. Bus leaves Tuesday at 2:00 p.m.; Wednesday at 10:00 a.m., 12:00 p.m., and 2:00 p.m.; and Thursday at 10:00 a.m. Note: Walking/standing are involved; restrooms will be available.</p>
<p>Russell Larson Research Facilities Farm Tour (1 hours)</p>	<p>This tour will visit each of the University Research Farms at Rock Springs Facility. Farm Managers will present a brief overview of the farm history, current research and student involvement as well as answer participant questions. Bus leaves Tuesday at 9:30 a.m. and 12:00 p.m.; Wednesday: 9:30 a.m., 12:00 p.m., and 2:00 p.m.; and Thursday: 9:30 a.m. and 12:00 p.m. Note: Minimal walking involved. No restrooms will be available.</p>

Daily Schedule

Tuesday, August 13–Thursday, August 15

Locations Abbreviation Key for Exhibits
can be found on page 3 of this program

Start Time	Event Title	Focus	Location
ALL DAY	Antique Tractor Display	Farm and Business	AT
	Corn Maze	Youth and Family	CM
	Assistive Technology Demonstrations	Healthy Lifestyle	HS
	Free Blood Pressure Readings	Healthy Lifestyle	HS
	Free Vision Screenings	Healthy Lifestyle	HS
	Free Carotoid Artery Assessments	Healthy Lifestyle	HS
	Free Thyroid Screenings	Healthy Lifestyle	HS
	Free Stroke Assessments	Healthy Lifestyle	HS
	Free Blood Sugar Screenings	Healthy Lifestyle	HS
	Free Colo Rectal Screenings	Healthy Lifestyle	HS
	Free Hepatitis C Screenings	Healthy Lifestyle	HS
	Shaver's Creek Tent: A Close Look at Native Pennsylvania Wildlife Species	Wildlife	SC
	"Ask a Master Gardener" Table	Home, Lawn and Garden	YG
	Demonstration Garden Walks hosted by Centre Co. Master Gardners	Home, Lawn and Garden	YG
	Youth Activities and Butterfly House	Home, Lawn and Garden	YG
	Spotted Lanternfly Education	Invasive Species Impact	YG
	High Pathogen Avian Influenza (HPAI) Egg-scape	Youth and Family	Y
	Governor's Youth Council on Hunting, Fishing, and Conservation	Youth and Family	Y
	Pennsylvania 4-H Programs	Youth and Family	Y
	PA Dairy Princess and Promotion-Dairy Nutrition and Facts	Youth and Family	Y
	PSU Plant Pathology — Plants Get Sick Too!	Youth and Family	Y
PA State Rabbit Breeder's Association	Youth and Family	Y	
Pasto Museum Open Daily 10:00 a.m. until 4:00 p.m. Wednesday – Grow Together & Thursday – Ag Lit Day	Youth and Family	P	

Tuesday, August 13

Start Time	Event Title	Focus	Location
9:00 a.m.	Hay Show Display and Contest	Crops, Forage, Hay and Soil	JDH
	Rural and Farm Pond Management Tour	Farm and Business	T
	Goods From the Woods Demonstration Woods Tour	Energy and Natural Resources	T
9:30 a.m.	Russell Larson Research Farm Tours	Farm and Business	T
	Protecting Yourself from Pesticides (1 PE Core Credit)	Farm and Business	W906

Tuesday, August 13

Locations Abbreviation Key for Exhibits
can be found on page 3 of this program

Start Time	Event Title	Focus	Location
10:00 a.m.	ATV Safety Demo	Healthy Lifestyle	SD
	Solar on the Farm	Energy and Natural Resources	FF
	Roasted Beet Salad with Goat Cheese	Healthy Lifestyle	F
	Native Plants	Home, Lawn and Garden	YG
	Town Hall Session with College of Ag Sciences Dean Troy Ott and PA Department of Ag Secretary Russell Redding	Farm and Business	RB
10:30 a.m.	Credit Markets for Renewables	Energy and Natural Resources	FF
	Native Bee Pollinator Research with Extension Master Gardeners	Home, Lawn and Garden	CT
	Hay Mowing and Tedding	Crops, Forage, Hay and Soil	ED
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
11:00 a.m.	Stop The Bleeding Training	Healthy Lifestyle	SD
	Siting Considerations for Large Scale Solar	Energy and Natural Resources	FF
	Smart Farming? How dairy farmers use technologies to manage dairy cattle	Livestock	CT
	Bear Hill Horse Logging	Equine	MHA
	Water Bath Canning Peach Jam	Healthy Lifestyle	F
	Flower Arranging	Home, Lawn and Garden	YG
11:30 a.m.	UAV/Drone Usage Commercial Vendor Demo	Farm and Business	SD
	Solar Energy Perspectives in Communities and Local Government	Energy and Natural Resources	FF
	Boosting Calf Performance: Tips for Managing Cows in Late Gestation	Livestock	CT
	4H Team Horse Power, Penn State	Equine	MHA
	Multifunctional Stream Buffers and Native Grass Field Tour	Energy and Natural Resources	T
	Kid's Tractor Pull — Age Groups: 4 & under, ages 5 & 6, ages 7 & 8	Youth and Family	PFB
11:45 a.m.	Cover Crop /Planting Green Demo	Crops, Forage, Hay, and Soils	ED
12:00 p.m.	Open Discussion on Solar Energy Presentations	Energy and Natural Resources	FF
	ATV Safety Demo	Healthy Lifestyle	SD
	Spotted Lanternfly Research Updates	Invasive Species Impact	CT
	Tick Talk	Healthy Lifestyle	F
	Stop The Bleeding	Healthy Lifestyle	HS
	Russell Larson Research Farm Tours	Farm and Business	T

Daily Schedule Locations

From Main Street:

- E. 5th St.:** AT-Antique Tractors and PFB Bldg.
- E. 9th St.:** FF-American National Learning Center
- W. 8th St.:** SC-Shaver's Creek Tent and Y-Youth Bldg.
- W. 9th St.:** F-Family Bldg., Cooking Demonstration Theater, and Healthy Lifestyles Presentations; NEW W.9th Street Meeting Area (W906 Label on Map)

W. 10th St.: C-College Exhibits Bldg. or CT- Theater, and PDA Bldg.

11th St.: P-Pasto Museum, RB-Red Barn Annex Meeting Rooms, S-Special Events Bldg., and T-Tours

W. 13th: EB-Equine Exhibit Bldg. and MH-Main Horse Arena

Beside the Harrington Bldg. end of E. 5th St:

CEA-Conservation Exhibit Area, CM-Corn Maze, CC-Cover Crops, and J-J.D. Harrington Bldg.

From Demo Alley:

W. 6th St.: HS-Health and Safety Tent and SD-Ag Farm Safety and Drone Demo

W. 11th St.: YG-Yard and Garden Area and Master Gardeners

W. 9th-11th Streets: V-Potato and Small Equipment Demonstration Area

Tuesday, August 13

Locations Abbreviation Key for Exhibits
can be found on page 3 of this program

Start Time	Event Title	Focus	Location
12:30 p.m.	Draft Horse Hitch	Equine	MHA
	Mix and Match: Optimizing Cover Crop Mixtures for your Farm's Goals	Crops, Forage, Hay and Soil	FF
	Corn Planter Demo	Crops, Forage, Hay and Soil	ED
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
1:00 p.m.	Stop The Bleeding Training	Healthy Lifestyle	SD
	UAV/Drone Usage Commercial Vendor Demo	Farm and Business	SD
	Farmland Raptors — Shaver's Creek	Youth and Family	FF
	Mediterranean Chickpea Salad	Healthy Lifestyle	F
	Demonstration and Tour: Water Wellhead Safety	Healthy Lifestyle	JDH
	Farm Progression Planning Panel Discussion	Farm and Business	RB
	Goods From the Woods Demonstration Woods Tour	Energy and Natural Resources	T
	Garden Bingo!	Home, Lawn and Garden	YG
	The Worker Protection Standard — Protecting Workers in Agriculture from Pesticide Exposure	Farm and Business	W906
2:00 p.m.	PSU Pullers Presentation and Demonstration	Healthy Lifestyle	SD
	Stump your Relative: Intergenerational Family Game	Healthy Lifestyle	F
	Connect With Your Horse, Gail & Richard Eichelberger	Equine	MHA
	Finishing Crossbred Beef X Dairy Cattle and American Berkshire Assoc. Progeny Swine	Livestock	T
	Beware of Box Tree Moth	Home, Lawn and Garden	YG
2:15 p.m.	Hay Raking, Baling, and Bale Handling	Crops, Forage, Hay and Soil	ED
2:30 p.m.	Handling and Training the Young Horse, Penn State	Equine	MHA
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
3:00 p.m.	Pesticide Exposure and Cancer Prevention	Healthy Lifestyle	F
	Open Field and High Tunnel Organic Vegetable Production Research	Crops, Forage, Hay and Soil	T
	Create Your Own Cutting Garden: Native and Perennial Plants for Home or Farm	Home, Lawn and Garden	YG
	Kid's Tractor Pull — Age Groups: 4 & under, ages 5 & 6, ages 7 & 8	Youth and Family	PFB
3:30 p.m.	Bear Hill Horse Logging	Equine	MHA
4:00 p.m.	Pollinator Walk and Talk	Home, Lawn and Garden	YG

Wednesday, August 14

Locations Abbreviation Key for Exhibits can be found on page 3 of this program

Start Time	Event Title	Focus	Location
9:00 a.m.	Hay Show Display and Contest	Crops, Forage, Hay and Soil	JDH
	Shaver's Creek Tent: A Close Look at Native Pennsylvania Wildlife Species	Wildlife	SC
	Rural and Farm Pond Management Tour	Farm and Business	T
	Open Field and High Tunnel Organic Vegetable Production Research	Crops, Forage, Hay and Soil	T
	Goods From the Woods Demonstration Woods Tour	Energy and Natural Resources	T
9:30 a.m.	Stop The Bleeding Training	Healthy Lifestyle	SD
	Russell Larson Research Farm Tours	Farm and Business	T
	Protecting Yourself from Pesticides (1 PE Core Credit)	Farm and Business	W906
10:00 a.m.	Peach Spinach Salad	Healthy Lifestyle	F
	Bear Hill Horse Logging	Equine	MHA
	Joint Informational Meeting of the PA House and Senate Agriculture and Rural Affairs Committees	Farm and Business	RB
	Finishing Crossbred Beef X Dairy Cattle and American Berkshire Assoc. Progeny Swine	Livestock	T
	Create Your Own Cutting Garden: Native and Perennial Plants for Home or Farm	Home, Lawn and Garden	YG
10:30 a.m.	Native Bee Pollinator Research with Extension Master Gardeners	Home, Lawn and Garden	CT
	Hay Mowing and Tedding	Crops, Forage, Hay and Soil	ED
	Paso Fino Horses	Equine	MHA
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
	Manure Hauler — Broker Training	Crops, Forage, Hay and Soil	W906
11:00 a.m.	Ag Rescue Demonstration	Health Lifestyle	SD
	Advancing the Sustainability of Controlled Environment Agricultural Systems	Farm and Business	CT
	How Reading Together Enhances Learning	Health Lifestyle	F
	Composting 101	Home, Lawn and Garden	YG
11:30 a.m.	UAV/Drone Usage Commercial Vendor Demo	Farm and Business	SD
	High Pathogen Avian Influenza (HPAI) in Dairy Cattle	Livestock	CT
	Miniature Horses Capital Area Therapeutic Riding Assoc. Youth Ambassadors	Equine	MHA
	Multifunctional Stream Buffers and Native Grass Field Tour	Energy and Natural Resources	T
	Kid's Tractor Pull — Age Groups: 4 & under, ages 5 & 6, ages 7 & 8	Youth and Family	PFB
11:45 a.m.	Cover Crop/Planting Green Demo	Crops, Forage, Hay and Soil	ED

Daily Schedule Locations

From Main Street:

- E. 5th St.:** AT-Antique Tractors and PFB Bldg.
- E. 9th St.:** FF-American National Learning Center
- W. 8th St.:** SC-Shaver's Creek Tent and Y-Youth Bldg.
- W. 9th St.:** F-Family Bldg., Cooking Demonstration Theater, and Healthy Lifestyles Presentations; NEW W.9th Street Meeting Area (W906 Label on Map)

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W. 11th St.: YG-Yard and Garden Area and Master Gardeners

W. 9th-11th Streets: V-Potato and Small Equipment Demonstration Area

Wednesday, August 14

Locations Abbreviation Key for Exhibits
can be found on page 3 of this program

Start Time	Event Title	Focus	Location
12:00 p.m.	Stop The Bleeding Training	Healthy Lifestyle	SD
	Spotted Lanternfly Research Updates	Invasive Species Impact	CT
	Skillet Sweet Potatoes	Healthy Lifestyle	F
	Stop The Bleeding	Healthy Lifestyle	HS
	Finishing Crossbred Beef X Dairy Cattle and American Berkshire Assoc. Progeny Swine	Livestock	T
	Russell Larson Research Farm Tours	Crops, Forage, Hay and Soil	T
12:30 p.m.	Mix and Match Optimizing Cover Crop Mixtures for Your Farm's Goals	Crops, Forage, Hay and Soil	FF
	Corn Planter Demo	Crops, Forage, Hay and Soil	ED
	Keystone Dressage and Combined Training Drill Team	Equine	MHA
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
1:00p.m.	Ag Rescue Demonstration	Healthy Lifestyle	SD
	UAV/Drone Usage Commercial Vendor Demo	Farm and Business	SD
	Mosquitoes of Pennsylvania	Healthy Lifestyle	F
	Demonstration and Tour: Water Wellhead Safety	Healthy Lifestyle	JDH
	Draft Horse Hitch	Equine	MHA
	Exploring Funding Opportunities for Ag & Small Businesses with USDA REAP Grant	Farm and Business	RB
	Growing Vegetables in Containers	Home, Lawn and Garden	YG
	The Worker Protection Standard-Protecting Workers in Agriculture from Pesticide Exposure	Farm and Business	W906
	Farmer's Insight: Adopting and Thriving with Climate-Smart Practices in Agriculture	Farm and Business	FF
2:00 p.m.	Farmland Raptors — Shaver's Creek	Youth and Family	FF
	Climate Smart Ag Best Practices for Dairy Producers	Livestock	W906
	Washington, D.C. Updates from Congressman Glenn "GT" Thompson, Chair of U.S. House Ag Committee	Farm and Business	CT
	Dehydrating Strawberry Fruit Leather	Healthy Lifestyle	F
	Paso Fino Horses	Equine	MHA
	Russell Larson Research Farm Tours	Farm and Business	T
	Soil Testing- Digging Deeper	Home, Lawn and Garden	YG
2:15 p.m.	Hay Raking, Baling, and Bale Handling	Crops, Forage, Hay and Soil	ED
2:30 p.m.	PSU Pullers Presentation and Demonstration	Healthy Lifestyle	SD
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T

Wednesday, August 14

Locations Abbreviation Key for Exhibits
can be found on page 3 of this program

Start Time	Event Title	Focus	Location
3:00 p.m.	Skin Cancer Prevention	Healthy Lifestyle	F
	Bear Hill Horse Logging	Equine	MHA
	Goods From the Woods Demonstration Woods Tour	Energy and Natural Resources	T
	Flower Arranging	Home, Lawn and Garden	YG
	Kid's Tractor Pull — Age Groups: 4 & under, ages 5 & 6, ages 7 & 8	Youth and Family	PFB
3:30 p.m.	Miniature Horses Capital Area Therapeutic Riding Assoc. Youth Ambassadors	Equine	MHA
	Cultivating PA's Ag Tech and Robotics Ecosystem	Farm and Business	RB
4:00 p.m.	Strawberry Salsa and Orange Zest Whipped Ricotta	Healthy Lifestyle	F
	Pollinator Walk and Talk	Home, Lawn and Garden	YG
4:30 p.m.	Keystone Dressage and Combined Training Drill Team	Equine	MHA
6:00 p.m.	Evening Extravaganza: Mini Jumping Derby & Draft Horse Hitch	Equine	MHA

Thursday, August 15

9:00 a.m.	Hay Show Display and Contest	Crops, Forage, Hay and Soil	JDH
	Rural and Farm Pond Management Tour	Farm and Business	T
	Goods From the Woods Demonstration Woods Tour	Energy and Natural Resources	T
9:30 a.m.	Russell Larson Research Farm Tours	Farm and Business	T
	Protecting Yourself from Pesticides (1 PE Core Credit)	Farm and Business	W906
10:00 a.m.	ATV Safety Demo	Healthy Lifestyle	SD
	Century Farm Awards Presentations	Farm and Business	FF
	Water Bath Canning Pickled Corn Relish	Healthy Lifestyle	F
	Handling and Training the Young Horse, Penn State	Equine	MHA
	Finishing Crossbred Beef X Dairy Cattle and American Berkshire Assoc. Progeny Swine	Livestock	T
	Soil Testing- Digging Deeper	Home, Lawn and Garden	YG
	Conservation Programs Made Clear: State and Federal Sustainable Ag Programs Every Farmer Should Know	Farm and Business	RB
10:30 a.m.	Native Bee Pollinator Research with Extension Master Gardeners	Home, Lawn and Garden	CT
	Hay Mowing and Tedding	Crops, Forage, Hay and Soil	ED
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
11:00 a.m.	Stop The Bleeding Training	Healthy Lifestyle	SD
	Soil Health & Soil Microbes, Panel Discussion with Ag Scientists	Crops, Forage, Hay and Soil	CT
	Vaccination Conversations with Extension	Healthy Lifestyle	F
	Bear Hill Horse Logging	Equine	MHA
	Building a Raised Bed	Home, Lawn and Garden	YG

Thursday, August 15

Locations Abbreviation Key for Exhibits
can be found on page 3 of this program

Start Time	Event Title	Focus	Location
11:30 a.m.	UAV/Drone Usage Commercial Vendor Demo	Farm and Business	SD
	The Importance of Early Socialization for Puppies	Livestock	CT
	Draft Horse Hitch	Equine	MHA
	Multifunctional Stream Buffers and Native Grass Field Tour	Energy and Natural Resources	T
	Kid's Tractor Pull — Age Groups: 4 & under, ages 5 & 6, ages 7 & 8	Youth and Family	PFB
11:45 a.m.	Cover Crop /Planting Green Demo	Crops, Forage, Hay and Soil	ED
12:00 p.m.	ATV Safety Demo	Healthy Lifestyle	SD
	Spotted Lanternfly Education	Invasive Species Impact	CT
	Ginger-Lime Watermelon Salad	Healthy Lifestyle	F
	Stop The Bleeding	Healthy Lifestyle	HS
	Russell Larson Research Farm Tours	Farm and Business	T
12:30 p.m.	Mix and Match: Optimizing Cover Crop Mixtures for Your Farm's Goals	Crops, Forage, Hay and Soil	FF
	Corn Planter Demo	Crops, Forage, Hay and Soil	ED
	Managing Equine Pastures and Drylots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
1:00 p.m.	Stop The Bleeding Training	Healthy Lifestyle	SD
	Farmland Raptors — Shaver's Creek	Youth and Family	FF
	Learn about the Transition to Organic	Farm and Business	CT
	Preventing Lymes Disease	Healthy Lifestyle	F
	Demonstration and Tour: Water Wellhead Safety	Healthy Lifestyle	JDH
	Connect With Your Horse, Gail & Richard Eichelberger	Equine	MHA
	Goods From the Woods Demonstration Woods Tour	Energy and Natural Resources	T
	Pollinator Walk and Talk	Home, Lawn and Garden	YG
	The Worker Protection Standard-Protecting Workers in Agriculture from Pesticide Exposure	Farm and Business	W906
1:30 p.m.	Risk Management: Protection for your Farm and Future	Farm and Business	FF
	Agronomic, Financial, Marketing, and Regulatory Consulting Provided to Farmers Transitioning to Organic Production	Farm and Business	CT
	4H Team Horse Power, Penn State	Equine	MHA
2:00 p.m.	PSU Pullers Presentation and Demonstration	Healthy Lifestyle	SD
	Transition to Organic Partnership Program (TOPP)	Farm and Business	CT
2:15 p.m.	Hay Raking, Baling, and Bale Handling	Crops, Forage, Hay and Soil	ED
2:30 p.m.	Organic Study Circles and Transitioning to Organic Farming Discussion	Farm and Business	CT
	Bear Hill Horse Logging	Equine	MHA
3:00 p.m.	Open Field and High Tunnel Vegetable Production Research	Farm and Business	T



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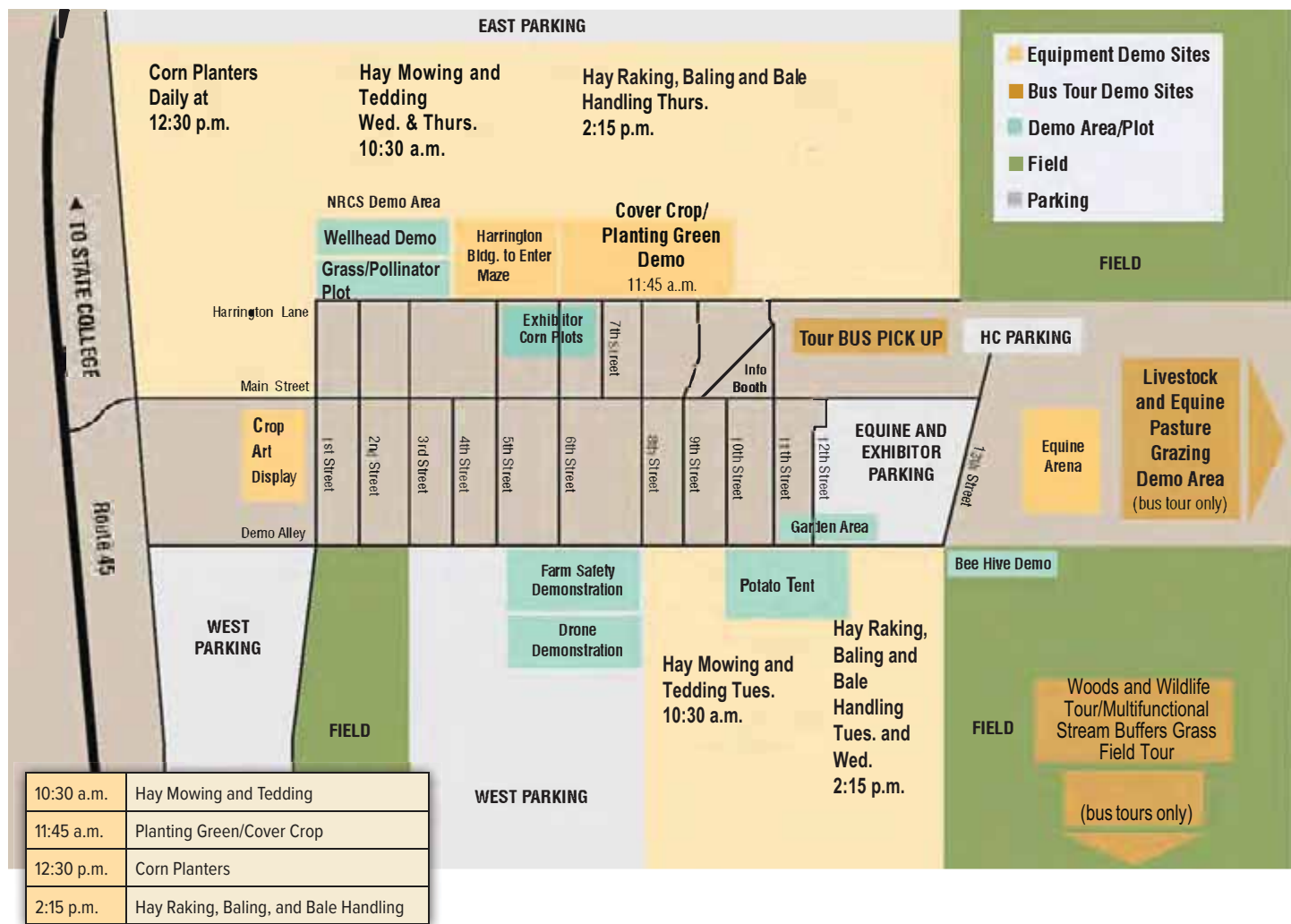
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Machinery Demonstration Map and Schedule



Farm Safety Demonstration Area

End of West 8th Street

Each year the Agricultural Safety and Health program highlights a safety topic important to the everyday lives of farm families. This year learn about the hazards of all-terrain vehicles or ATVs which are commonly used on the farm and for recreational activities. The team will show the potential for a rollover incident and ways to reduce the risk of an overturn. There will be demonstrations at 10:00 a.m. and 12:00 p.m. on Tuesday and Thursday, highlighting the use of protective safety gear for ATV riders.

On Wednesday, an agricultural rescue demonstration will show specific training required to show how first responders approach the situation to properly manage a farm-related incident. This ag rescue demonstration will take place at 11:00 a.m. and 1:00 p.m.

Penn State Pullers student organization will display their 1/4 scale tractor Tuesday and Thursday at 2:00 p.m. and Wednesday at 2:30 p.m. Stop the Bleed Trainings will be provided on Tuesday and Thursday, 11:00 a.m. and 1:00 p.m. and Wednesday 9:30 a.m. and noon. Stop by the Safety Tent to complete the 30-minute training for a free kit, while supplies last.

Water Wellhead Demonstration Areas

Keeping your well water safe for your family and your livestock is your responsibility. Learn how to keep harmful pollutants out of your drinking water and how to get your water tested. You can join the 30-minute walking tour at **1:00 p.m. daily**, meet at the entrance to the J.D. Harrington

Bldg. and walk with Penn State Extension Water team staff to view three wellheads around the area. They will discuss proper wellhead inspection, sanitary well cap use, and setting up a zone of protection around your well.

Cover Crop Plots

Next to the J.D. Harrington Crops and Conservation Building, several Pennsylvania seed companies are demonstrating new cover crop mixtures. Visit Penn State specialists in the Harrington Building or seed company representatives at the **Cover Crop Plots** at 11:45 a.m. daily for answers to specific questions.

Equipment Demonstrations

This year's new field demonstration will feature **Corn Planting** at 12:30 p.m. daily. Several of the major equipment companies will have units in the field for producers to compare side by side. In action this year will be hay mowers, rakes and tedders, hay balers and bale handlers.

Drone Demonstrations

Southwest of the Farm Safety Demonstration Area (SD) Penn State staff will host pre-approved commercial drone exhibitors to fly the unmanned aerial vehicles (UAV) daily at 11:30 a.m. and 1:00 p.m. based on interest of the pilots and weather conditions. Watch drones in action and learn about their uses in agriculture.

At the Show

If You Think You Know the College of Ag Sciences...ThinkAgain

Find out more about how Penn State and the College of Agricultural Sciences affect your life each day. Stop in at the Undergraduate Education table and learn more about how a quality education can make life better.

College Exhibits Building

Main Street between West 9th and West 10th Streets

Visit with Penn State Extension teams and departments to learn about the latest research from Departments of Animal Science, Veterinary & Biomedical Sciences and Department of Entomology along with Spotted Lantern Fly Extension. Find out more about the integration of Technology for Agriculture and Living Systems. Teams will update you on these current concerns. Learn more about educational opportunities in Agriculture at the Undergraduate Education Office and career information on Agricultural workforce development initiatives.

Climate Smart Ag Program (CARAT) for PA Dairy Producers – Updates

Wednesday, 2:00 p.m. West 9th St. Meeting Area

Cultivating PA's Ag Tech and Robotics Ecosystem

Wednesday, 3:30 p.m. Red Barn Annex

Join the TeamPA and College of Ag Sciences Technology for Agriculture and Living Systems Initiative along with professionals from robotics for an enlightening panel discussion on current and future roles of automation.

Ag Business/Crops, Soils, Plants, and Energy Conservation

• Solar Power on the Farm

Tuesday Seminars 10:00 a.m.–12:30 p.m. American National Learning Center (FF)

Explore alternative energy opportunities with the Penn State Extension team as they offer their expertise and insights related to solar energy. Topics to be addressed:

- Solar on the Farm
- Credit Market for Renewables
- Siting Considerations for Large Scale Solar
- Solar Energy Perspectives in Communities and Local Government
- Panel Discussion with experts and users

• Penn State's Small Business Development Center

Wednesday, 1:00 p.m. Red Barn Annex (RB)

Penn State's Small Business Development Center will host Ag Center of Excellence and PennTap to explore funding avenues to propel you business forward. Delve in to the details of the USDA Rural Energy for America Program Grant. Gain insights to services for producers and small businesses.

• Risk Management: Protection for Your Farm and Future

Thursday, 1:30 p.m. American National Farm Family Learning Center

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At the Show

- **Mix and Match: Optimizing Cover Crop Mixtures for Your Farm's Goals**
12:30 p.m. daily. American National Farm Family Learning Center
Join researchers for a discussion on how multiple benefits of mixtures could benefit your farm and information on long term cover crop mixtures trial at Penn State.
- **Organic Farming Opportunities Seminars**
Thursday Seminars 1:00 p.m.–3:00 p.m. College Exhibit Bldg. Theater
Various partner organizations will share insights about what is involved in transitioning to USDA certified organic and the abundance of free services to assist producers in Pennsylvania.

Conservation Exhibit Area

Harrington Lane

- **Natural Resources Conservation Service (NRCS)**
Demonstrations supported by NRCS technical staff will focus on working farms. Featuring an **active livestock watering** system with rain and solar-powered pumps for grazing operations, a **scaled manure storage and concrete loafing area** and an **interactive soil tunnel**.
- **Conservation Programs Made Clear: State and Federal Sustainable Ag Programs Every Farm Should Know**
Thursday, 10:00 a.m. Red Barn Annex
- **Farmer's Insight: Adapting and Thriving with Climate-Smart Practices in Agriculture Panel Discussion**
Wednesday, 1:00 p.m. American National Farm Family Learning Center

Family, Youth, and Health Activities

The Family Building

Main Street and West 8th Street

Come visit the LION Mobile Clinic, which uses a student-run free clinic model to increase access to health care and promote healthy choices for under-resourced communities in Pennsylvania. Tour the clinic, and participate in fun activities for kids. The clinic will host a skin cancer awareness day on Thursday, from **9:00 a.m.–1:00 p.m.** giving away sun bags. Visit the Family Room, where Penn State Extension hosts Food, Families, and Communities (FFC) and Pesticide Education exhibits. Healthy eating, physical activity, keeping food safe, managing stress, tick protection, and sun safety are all part of good physical and mental health for children, youth and families. See the presentation and cooking demonstration schedule to join us for **Cooking Demonstrations** which will introduce you to new recipes. **Pesticide Education Program** will showcase different areas around a home where common household products may be stored and children can learn what to do when they see Mr. Yuk stickers.

The Youth Building

Main Street and West 8th

Children and youth can learn about the many interactive activities offered by 4-H and other youth organizations. Featuring hands-on activities, demonstrations, or presentations. All week long, explore with microscopes the diseases of plant, get up close and personal with rabbits, and test your dairy knowledge! **Pennsylvania 4-H**—Learn about the state 4-H Program, and learn about 4-H animal science opportunities along with fun games. Learn from **Extension bio-security educators** how to Egg-scape the spread of the dangerous High Pathogen Avian Influenza in Poultry. **PA Dairy Princess and Promotion Services** will test your knowledge: Real vs. Imitation, and check out information on the

differences of real dairy foods or imitation. **Pennsylvania State Rabbit Breeder's Association** will share their rabbit hobby with visitors and share about uses of rabbit throughout the state. **PSU Plant Pathology—Plants Get Sick Too!**—Hands-on children's activities to examine forest fungi, cultivated mushrooms and plants that are 'sick' with common plant diseases. **Governor's Youth Council** is hosting information about how to become guides and agents in the District Conservation and Natural Resource agencies.

Shaver's Creek Environmental Center Tent

West 8th Street

Discussions and hands-on natural history exhibits will give you a close look at native **Pennsylvania wildlife species**. Presentations feature live monarchs, turtles, snakes, and amphibians throughout the day. Learn more about Farmland Raptors at a daily presentation in the American National Learning Center (FF) on Tuesday and Thursday at **1:00 p.m.** and Wednesday **2:00 p.m.** with Citizen Science Coordinator.

Corn Maze

Next to the Joseph D. Harrington Crops, Soils, and Conservation Building, end of East 5th Street

Spend a few minutes—or several hours—wandering through the corn maze. This maze is accessible to kids, wheelchairs, and baby strollers.

Rural Health and Safety Tent

End of West 6th Street (next to the Farm Safety Demonstration Area)

There will be **FREE health screening opportunities available each day from 9:00 a.m.–4:00 p.m.**, screenings this year will include **liver, carotid artery, vision, thyroid, stroke, blood sugar, colo-rectal, hepatitis C, and blood pressure**. Also visit AgrAbility PA for Pennsylvanians to learn about tools, tips, and assistive technology available to educate and inform farmers and agricultural workers about options to continue farming and working in agriculture despite a disability or health condition. LION Mobile Clinic, Mount Nittany Health and Geisinger

(continued on next page)

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 - Industrial
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 - Research & Specialty
- Welding / Cutting / Metalworking Products
- Robotics & Automated Solutions
- Personal Protective Equipment & Safety Supplies

Johnstown, PA (Corporate Headquarters) 146 Homer St. Johnstown, PA 15902 814-535-3594 M-F 7:30-5:00	Altoona, PA 1315 Pleasant Valley Blvd. Altoona, PA 16602 814-942-9579 M-F 8:00-5:00	Indiana, PA 1375 Wayne Ave. Indiana, PA 15701 724-349-5391 M-F 8:00-5:00	Somerset, PA 921 Berlin Plank Rd. Somerset, PA 15501 814-701-2262 M-F 8:00-5:00
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Celebrating 85 Years in Business!
Your Local Gas & Welding Experts

At the Show

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staff will be providing free screenings and health information. Worker Protections Standard program will offer two courses awarding 1 core credit per talk. **Daily 9:30 a.m., Protecting Yourself from Pesticides** and at **1:00 p.m. The Worker Protection Standard** — Protecting Those Who Work in Agriculture from Pesticide Exposure, are the daily presentations in the W.9th St., Meeting Area (W906 label).

PAOneStop/AgMap

Conservation Exhibit Area

Learn about online tools that help farmers create detailed maps of their farming operation and assist them in meeting regulatory requirements for erosion, sediment plans, and nutrient management. **Manure Hauler-Broker Training** will be hosted this year on **Wednesday** from **10:30 a.m.– 12:30 p.m.** in the W.9th Meeting Area.

Yard and Garden Area

End of West 11th Street

Ask the Penn State Extension Master Gardeners for advice on your plant and pest problems! Gain tips on **Flower Arranging, Native Plants, Container Gardening, Soil Health, Composting, Raised Garden Beds and Plant Breeding**. Don't forget to visit the **butterfly tent** and **children's activity booth**! Master Gardeners will be giving **tours of the Demonstration Garden** as well to learn about growing various herbaceous and woody plants. Learn the latest on **beehive equipment** from Penn State Extension and gain a deeper understanding of the honeybees and native pollinators at the observation hive.

The Equine Experience

The Equine Demonstrations above West 13th Street

The Equine Experience, presented by Penn State's Equine Science program, features demonstrations, exhibits, workshops, and seminars on equine-related topics. Demonstrations for this year include **Penn State Quarter Horses, Paso Fino Horses, Bear Hill Horse Logging, KDTCA Drill Team, Draft Horse Hitch, Mini Horse, 4H team horses**, and more at the Main Horse Arena. (see schedule of events for times listed at MH).

Pasto Museum

Main Street

Explore the intersection of science and history in our collections and exhibits that feature tools and technology that were crafted or manufactured to help produce food and fiber. **Wednesday is Grow Together Program** information and **Thursday is Ag Lit Day** to visit with PSU Press authors. Stop by to see the latest publications from Penn State Press. Museum open daily from **10:00 a.m. to 4:00 p.m.** during the show.

Food Concessions

Around the show grounds various nonprofit agricultural associations, community organizations, churches, and student groups create a wonderful assortment of food items for your enjoyment. For your convenience, their planned menus are provided below:

PA Livestock Assoc.

(Main and East 8th): smoked ham sandwich, angus burgers, half beef and pork sandwich, hot dogs, pulled pork barbeque, beef brisket sandwich, beef & cheddar sandwich, and combo meals (cole slaw or baked beans) tea and lemonade

PA Potato Grower's Cooperative

(Main and West 8th): french fries, pierogies with butter and onion, and chicken tenders

Fairbrook United Methodist Church

(Main and East 7th):
Breakfast bowls: sausage, home fries, scrambled eggs, and cheese
Lunch: burgers, hot dogs, hot sausages, ham sandwich, baked beans, applesauce and chips

Miller Tropical Sno and Carmel Corn Snacks

(Harrington Lane and East 3rd)

Penn Ag Industries Assoc.

(Demo Alley and West 6th):
Breakfast: breakfast sandwiches
Lunch: chicken tenders, hot dogs, fresh cut fries, sausage sandwich, and milkshakes.

Hoag's Catering (Main and West 1st):

Breakfast: breakfast sandwiches, hash browns, pancakes, juice and coffee
Lunch: tossed salad, pasta salad, hamburger, chicken quesadilla, beef hot dogs, bbq pork sandwich, grilled chicken sandwich, french fries, and fruit cup.

Separate Tents:

Penn State Berkey Creamery Ice Cream
Fried Mushrooms

PA Cattleman's Association

(Main and West 8th): ribeye sandwiches, cheesesteak hoagie, beef meatball sandwich, and cheesesteak nachos

PA County Agents Association

(West 12th below equine area): soft pretzels, nachos with cheese, coffee and beverages

PA Dairy Princess and Promotions

(Main and East 8th): grilled cheese sandwiches, yogurts, and root beer or orange floats

PA FFA Foundation (Main and East 8th):

Breakfast: breakfast sandwiches and coffee
Lunch: cheese and pepperoni pizza, pulled pork sandwiches, sausage, cheesesteak sandwich, beans, applesauce, chips, and fresh squeezed lemonade

PA Jr. Guernsey Breeders

(Main and East 7th): milkshakes

PA Maple Producers

(Main and West 8th): maple syrup, milkshakes, and maple cream, yogurt, pancakes, maple cotton candy and various PA Maple products.