



PennState  
College of Agricultural Sciences

# AG Progress Days

## PROGRAM GUIDE

**August 13–15, 2019**

Russell E. Larson Agricultural Research Center  
Rock Springs, PA

Tuesday 9:00 a.m.–5:00 p.m.

Wednesday 9:00 a.m.–8:00 p.m.

Thursday 9:00 a.m.–4:00 p.m.

[apd.psu.edu](http://apd.psu.edu)



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# Welcome to Ag Progress Days!

We are pleased to have you as our guest at the Russell E. Larson Agricultural Research Center for this 44th exposition, which provides a wonderful opportunity to learn about the many exciting advancements in agriculture and related fields to which our faculty and staff are contributing.

We hope you will take full advantage by exploring the many exhibits and taking part in the tours, workshops, and other presentations. This is your chance to get a firsthand look at some of the research, extension, and educational programs conducted by your land-grant university with the support of our partners, friends, and stakeholders.

We have a wide variety of attractions designed to appeal to virtually everyone, from commercial exhibits and field demonstrations highlighting the latest agricultural technology, to gardening advice, food demonstrations, horse exhibitions, and activities for kids. Be sure to visit the Pasto Agricultural Museum for a look at the history of farming and rural living. And when you need a break for rest and nourishment, check out the nonprofit and commodity-group food vendors ready to serve you a slice of Pennsylvania's bounty.

To help guide your visit, feel free to stop at the information booth near the top of Main Street to get directions or answers to your questions. If there is anything we can do to make your stay more pleasant, our faculty and staff are here to assist.

Thanks for coming, and enjoy your day!



**Rick Roush, Dean**

Penn State College of Agricultural Sciences

## General Information

**ATM Machine:** Located in the Ag Choice Building at the corner of Main and West 6th Streets.

**Disability Services:** Golf carts, courtesy of 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.

**Merchandise Sales:** Ag Progress Days T-shirts and Penn State Dairymen's Club Milk Bottles are for sale in the College Exhibits Building at West 10th and Main

Streets. Proceeds go to the Penn State College of Ag Sciences Undergraduate Education Services. The Penn State Dairymen's Club sells milk bottles as a fundraiser for scholarships.

**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.

**Relocations:** PA Livestock Assoc. food booth has been relocated to Main and East 8th Streets. Butterfly Tent has been relocated to the Yard and Garden Area on West 11th.

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



## What's New

- ▶ Presentations on Hemp and Hops Research
- ▶ Master Gardeners Discuss Creating Victory Gardens
- ▶ Managing Equine and Livestock Pasture Tours
- ▶ Updated Beef Feedlot Tour
- ▶ Strategies for Improving Dairy Cropping Systems Tour
- ▶ Family Room Focus on Health and Well-Being
- ▶ 4-H Youth Animal Science Project Displays; "Animal Tales" Story Time (3- to 10-yea-olds)

## Penn State Extension Team

in the College Exhibits Building:

- ▶ **Department of Entomology** — Spotted Lanternfly
- ▶ **Department of Ecosystem Science and Management** — Invasive Species Impact on Forests, Plants, and Fish
- ▶ **Dept. of Plant Pathology and Environmental Microbiology** — Invasive Plant Diseases
- ▶ **Department of Veterinary and Biomedical Sciences** — Foreign Animal Diseases
- ▶ **Food, Families, and Health** — Vector-Borne Disease
- ▶ **Dept. of Ag and Biological Engineering** — Advancing Agricultural Sensing and Automation and 4-H Robotics Demo



**PennState Extension**



## Special Presentations on the Grounds

### Invasive Species and Foreign Animal Diseases Impacting Pennsylvania—Penn State Extension Teams

(see schedule for day, time, and location)

### Town Hall Meeting with Dean Roush and Secretary Redding

College Exhibits Bldg. Theater, Tuesday at 10:30 a.m.

Participate in a conversation on priority issues in agriculture with the Dean of the College of Agricultural Sciences and PA Secretary of Agriculture.

### PA House and Senate Agriculture and Rural Affairs Committees Informational Meeting

College Exhibits Bldg. Theater, Wednesday at 10:00 a.m.

### Ag Business Presentations

Ag Choice Farm Credit Tent (E. 7th St.), Wednesday 11:00 a.m., noon, and 1:00 p.m.

American National/Farm Family Learning Center, Wednesday, 3:00 p.m.

### Agricultural Roundtable with Congressman Glenn "GT" Thompson

College Exhibits Bldg. Theater, Wednesday, 2:00 p.m.

A public discussion of the Farm Bill and Agricultural Policy with senior member of the U.S. House Ag Committee, who will be joined by additional government officials and agriculture leaders.

### On-Farm Renewable Energy Team Seminars

American National/Farm Family Learning Center, offered Tuesday morning and afternoon

### Other Topics (see schedule for day, time, and location)

- Defend Yourself Against Ticks and Vector-Borne Diseases
- Advanced Agricultural Sensing and Automation
- Foreign Animal Diseases: A Real Risk
- Recruiting and Motivating Volunteers
- Tree Genetics Affect Responses to Disease and American Chestnut Blight
- Building Your Pork Biosecurity Plan
- Master Gardener Pollinator and Victory Gardens



# 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.



## Locations Abbreviation Key for Exhibits

ABBREV	AREA	LOCATION
A	AG Choice Building	Main and W. 6th St.
AM	PA One Stop/Ag Map Tent	Harrington Lane
AP	Ag Choice Tent	E. 7th St.
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	Corn Maze	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
K	Kid's Climb Tree Area	South of Main Horse Arena
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	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	Vegetable Tent and Garden 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 Information	
<b>A</b>		
ABC YORK.....	E615	AMERICAN ANGUS ASSOC..... D107
ABILENE MACHINE.....	EC311	AMERICAN DAIRY ASSOC. NE ..... D203
ABINGTON EQUINE HOSPITAL.....	EB105	AMERICAN FARM BUREAU INS ..... L106
ADAMS SUPPLY.....	W848	AMERICAN TRAUMA SOCIETY..... HS205
ADM CROP RISK SERVICES.....	A210	ANDERSON GROUP..... W303
AG ANALYTICAL SERVICES.....	J109	ANTIQUE TRACTORS..... M101
AG CHOICE FARM CREDIT.....	A101	APPLIED BIO MINERALS..... A310
AG CHOICE FARM CREDIT TENT.....	E715	ASSOC. WARM SEASON GRASS..... CEA12
AGCO.....	E117	AURIFY SALES..... W10-114
AGRI-KING.....	W911	AUTOMATIC FARM SYSTEMS..... E321
AGRI-NUTRITION CONSULTING.....	L301	<b>B</b>
AGRI-PLASTICS.....	W856	B & R FARM EQUIPMENT..... W547
AGRI-TRAC US.....	L111	BAD DOG TOOLS..... EC405
AK FABRIC BUILDINGS.....	W10-124	BAILEYS INC..... W330
AKE SAFETY EQUIPMENT.....	A112	BAKER AG-LIME..... A312
ALL AROUND FENCE.....	W528	BASTIAN TIRES..... W125
ALLAN MYERS.....	W918B	BAZOOKA FARMSTAR..... W10-119
ALLEGHENY AG.....	W833	BECO EQUIP..... W121
ALLENSVILLE PLANING MILL.....	W101	BEILER-CAMPBELL REALTORS..... A510
ALTERNATE HEATING SYSTEMS.....	W204	BELCO EQUIP..... W801
A.M. LOGGING.....	EC305	BENDER ENTERPRISES..... W307
AMERIAG.....	W829	BERGMAN MFG..... EC105
		BEST LINE EQUIP..... W217

BINKLEY & HURST.....	W213	CENTRE CO. CART..... W13-110
BLAIN SUPPLY.....	W202	CENTRE HOMECARE..... HS104
BOBCAT OF STATE COLLEGE.....	W123	CENTRICA BUSINESS SOLUTIONS..... W918A
BOYD STATION.....	EC505	CHEMGRO..... L113
BRUTE FORCE.....	W10-105	CHESAPEAKE BAY FDN..... J300
BUREAU OF ANIMAL HEALTH & DIAGNOSTIC.....	PDA 112	CHRISTIAN FARM. OUTREACH..... EC114
BUREAU OF FARML. PRESV.....	PDA 102	CITIZENS FOR PA FUTURE..... D117
BUREAU OF FOOD ASSISTANCE...PDA	101	CLARKS AG SUPPLY..... W913
BUREAU OF OF FOOD SAFETY & LAB.....	PDA 113	CLEAN CUTTER..... EC112
BUREAU OF PLANT INDS.....	PDA 103	CLEANFIX NORTH AMERICA..... A309
BURLY ATTACHMENTS.....	E520B	CLEARWATER CONSERVANCY, CTR PA..... J202
BUSINESS LEASE CONSULT.....	EC303	CLEVELAND BROTHERS EQUIP..... E110
<b>C</b>		CLOVERDALE EQUIPMENT LLC..... E525
C & C SPECIALTIES.....	W424	CONESTOGA MFG..... W415
C K MFG.....	W924	CONKLIN..... A303
CADCO- CONGDON ASSOC.....	W207	COSMEXP INC..... D209
CALLICRATE BANDERS.....	L114	COUNTRY CLIPPER /SHIVERS..... W222
CANNS BILCO DISTRIB.....	W825	COUNTRY FOLKS..... L317
CARL NEUTZEL SERVICES.....	E209	COUNTRYWAY INSURANCE CO..... EC308
CDL USA.....	E106A	COWCO..... W609
CEDAR CREST EQUIP.....	E528	CPI..... E106B
CENTRAL PETRO CO.....	W510	CRITTERS INC POULTRY 4-H CLUB ... Y305

# Exhibitors and Location

CROPCARE..... W917  
 CROWN ROYAL STOVES ..... W420A  
 CTR FOR DAIRY EXCELLENCE..... D106  
 CUSTOM FAB TRAILERS ..... W618

## D

D H WELDING..... W221  
 DAIRY FARMERS OF AMERICA ..... D306  
 DAIRY ONE..... D305  
 DAIRYMASTER USA ..... W11-108  
 DAVE HEATH ASSOC. /  
 HAYBUSTER ..... E213  
 DBC AG PRODUCTS/LIRA GOLD ..... L101  
 DEEP VALLEY FARM ..... D114  
 DEER COUNTRY FARM/LAWN ..... W625  
 DELAVAL..... W11-101  
 DILLER AG EQUIP ..... W411  
 DION-AG ..... H103  
 DISCOUNT HYDRAULIC HOSE ..... EC410  
 DK HOSTETLER..... E301  
 DOG GUARD OF CENTRAL PA ..... EC211  
 DOTTERER EQUIP..... W418  
 DOUBLE B FARM SUPPLY ..... W11-105  
 DYNA PRODUCT ..... H101

## E

E M HERR EQUIP ..... W509  
 E RISSLER MFG ..... W916  
 EASTERN STATES LIVESTOCK ..... W10-115  
 ELANCO ANIMAL HEALTH ..... W12-104  
 ELI FISHER CONST ..... W10-103B  
 EMM SALES & SERVICE ..... W100  
 ENERGY PANEL STRUCTURE ..... DA126  
 EPHRATA NATIONAL BANK ..... EC310  
 ERNST SEEDS..... CEA11  
 ESB ALUMINUM PRODUCTS ..... W10-118  
 ESCH MFG ..... W646  
 EVERETT CASH  
 MUTUAL INS ..... EC201, EC401  
 EXCEL INDUSTRIES..... W316

## F

FARM & LAND REALTY ..... A501  
 FARM FAMILY CASUALTY INS..... EC507  
 FARMCHAINS.COM..... EC411  
 FARMCO MFG ..... W419  
 FARMER BOY AG ..... W518  
 FARMERS CHOICE TIRE SERVICE ..... W621  
 FARMET USA INC ..... H100  
 FASTLINE PUBLICATION ..... A207  
 FIRST CITIZENS COMMUNITY  
 BANK ..... PFB106  
 FISHER & THOMPSON ..... D303  
 FORD / NEWSCOPE ..... DA114  
 FORD MOTOR COMPANY..... PFB101  
 FOR-MOST LIVESTOCK EQUIP ..... W409  
 FRIENDS OF FARM SHOW ..... PDA 111  
 FULL CIRCLE MUSHROOM  
 COMPOST ..... L104  
 FULTON BANK NA ..... EC403

## G

GERINGHOFF..... W301  
 GOOD TIME 4H CLUB ..... Y301  
 GOODVILLE MUTUAL CASUALTY ..... A405  
 GRASSWORKS ..... W10-108

GREEN MOUNTAIN ENERGY ..... EC406  
 GRO-MOR PLANT FOOD ..... EC408  
 GROWERS MINERAL ..... W600  
 GROWMARK FS LLC /  
 DEKALB ..... E533, E529

## H

H&S MFG CO ..... W619  
 HALE TRAILER ..... W108  
 HAMILTON EQUIPMENT ..... E109  
 HC QUALITY DOORS ..... G101  
 HEAT SMART PLUS ..... W904  
 HEATMASTER/STEELTECH..... W327  
 HERSHEY EQUIP ..... W406  
 HOARDS DAIRYMAN..... D205  
 HOOBER ..... W201  
 HOOVER DIESEL SERVICE..... W420B  
 HOOVER TRACTOR KIOTI ..... W841  
 HOSTETTER REALTY..... EC302  
 HUBNER SEED ..... E624  
 HUD-SON FOREST EQUIP ..... W836  
 HURLEY AUCTIONS..... W119

## I

I & J MFG..... W933  
 IBA INC ..... W921  
 IMMUCELL CORP ..... EC511  
 INDEPENDENT AG EQUIP ..... W511  
 INNOVATIVE DAIRY SOL ..... W11-112  
 INTEGRITY CONSTRUCTION..... EC111  
 INTL HARVESTER ..... M104  
 INTL STOCK FOOD ..... D111  
 IRROMETER COMPANY..... V107  
 IVA MFG ..... W10-107

## J

JAMESWAY FARM EQUIP ..... E317  
 JOES MACHINERY ..... W514  
 JOHN DEERE..... W519  
 JOHN DEERE COMMERCIAL ..... W535  
 JONESTOWN AG SUPPLY ..... W206

## K

KENCOVE FARM FENCE ..... W10-111  
 KENT NUTRITION GROUP..... W13-116  
 KEYSTONE CONCRETE ..... W919  
 KEYSTONE GROUP AG SEEDS..... E608  
 KINGS AGRISEEDS ..... L102  
 KISH VALLEY ELEC/ HEATMOR... W11-111  
 KUBOTA TRACTOR ..... E333  
 KUHN NORTH AMERICA ..... W845  
 KUHNS MFG ..... W216

## L

LANCASTER DHIA ..... L306  
 LANCASTER FARMING..... A301  
 LANCASTER TRACTOR  
 SERVICE..... W10-113B  
 LANCASTER PARTS AND  
 EQUIPMENT ..... W11-106  
 LANCO / PENNLAND..... D311  
 LANCO MFG ..... W622  
 LAND PRIDE..... E325  
 LANDOLL ..... W613  
 LAWN & GOLF VENTRAC ..... DA101  
 LAWN CARE DIST ..... W10-130

LEADERS FARM EQUIP ..... W642  
 LEGACY STEEL BUILDINGS..... W115  
 LEGACY TRUCK CENTERS ..... W601  
 LEIDEN LAND & CATTLE ..... W852  
 LIQUITUBE MARKETING INTL..... A407  
 LOCAL SEED CO. .... E623  
 LONG ACRES FARM..... W808

## M

M H EBY ..... W816  
 M M WEAVER-CLAAS ..... E517  
 M&T BANK..... PFB116  
 MAHINDRA USA ..... E536  
 MANITOU GEHL..... E351  
 MARTIN CONSTR..... D211  
 MARTIN TILLAGE..... E115  
 MARTIN TRUCK BODIES ..... W414  
 MARTIN WATER CONDITION ..... L107  
 MCFARLANE MFG ..... W506  
 MD & VA MILK PRODUCERS ..... D207  
 MENSCH MFG ..... W407  
 MESSICKS ..... E215  
 METALERG INC ..... W10-113A  
 METZLER FOREST PRODUCTS ..... A205  
 MEYER MFG ..... W107  
 MID ATLANTIC PLANTERS ..... E118  
 MID-ATL HIGHLAND CATTLE  
 ASSOC. .... L305  
 MID-ATLANTIC MASTER FARMERS... A105  
 MID-ATLANTIC SEEDS..... E627  
 MID-ATLANTIC WATER-PROOF ..... L110  
 MILLNER / HAUFEN TOOL..... A212  
 MIRACO ..... W11-116  
 MORTON BUILDINGS ..... E600  
 MOUNT NITTANY HEALTH..... HS203  
 MOUNTAIN AIR GARAGE ..... W214  
 MOUNTAIN SUPPLY ..... W634  
 MOYERS CHICKS..... L205  
 MR TOOL ..... E100  
 MULTIMIN USA ..... L313  
 MURRAY SECURUS..... EC102  
 MUSCLE PRODUCTS ..... EC104  
 MYERS FARM..... W501

## N

N. TIER HARDWOOD ..... J102  
 NACHURS ..... A404  
 NATIONAL DAIRY PRODUCERS ..... D116  
 NATIONAL FARMERS ORG ..... D206  
 NATIONAL SUSTAINABLE  
 STRUCTURES CTR..... G109  
 NATIONWIDE INSURANCE ..... PFB104  
 NELSON & SONS CONCRETE..... L314  
 NEW HOLLAND ..... E201  
 NEXTIRE ..... W10-104  
 NOLTS POWER EQUIP..... W408  
 NOLTS PRODUCE SUPP..... V100  
 NORTHEAST AGRI SYSTEMS INC. .... W914  
 NORTHWEST SAVINGS BANK..... L310  
 NORWOOD SALES..... W526  
 NRG ENERGY ..... PFB110  
 NTH/N-TECH TROOP EQUIP ..... W422  
 NUHN INDUSTRIES..... W920  
 NUTRIEN AG SOLUTIONS..... E621  
 NYCAMH - NEC..... DA134

## P

P BRADLEY & SONS ..... W524  
 PA 4R ALLIANCE ..... CEA13  
 PA ARABIAN HORSE ASSOC..... EB507  
 PA ASSOC. CONSERV DIST ..... J106  
 PA ASSOC. OF COUNTY FAIRS ..... A109  
 PA ASSOC. FOR SUSTAINABLE AG ..... J209  
 PA BEEF COUNCIL ..... D105  
 PA CATTLEMENS ASSOC. .... L116  
 PA CERTIFIED ORGANIC..... J309  
 PA CHAPT AMER CHEST FDN ..... J101  
 PA CORN GROWERS ASSOC. .... A503  
 PA DAIRY PRINCESS..... D201/Y104  
 PA DCNR BUREAU FORESTRY..... J105  
 PA DEPT OF AG ..... PDA 106, M118  
 PA DEPT-ENVIR PROTECT..... J401  
 PA EQUINE COUNCIL ..... EB501  
 PA FARM BUREAU ..... E512  
 PA FARM LINK..... A412  
 PA FORAGE AND GRASSLAND ..... J112  
 PA FOREST PRODUCTS ASSOC..... J104  
 PA FORESTRY ASSOC..... J103  
 PA GAME COMMISSION..... J203  
 PA GRAIN PROCESSING..... E601  
 PA GROUND WATER ASSOC..... J405  
 PA HARDWOOD DEV COUNC..... W11-100  
 PA LYME RESOURCES NETWORK.... EC515  
 PA MILK MARKETING BOARD ..... EC501  
 PA NO-TILL ALLIANCE ..... CEA14  
 PA OFFICE RURAL  
 HEALTH..... HS101, 106, 201, DA136A  
 PA ONE CALL SYSTEM ..... A411  
 PA PORK PRODUCERS ..... A106  
 PA POTATO GROWERS..... YG206  
 PA QUALITY DEER MGMT ..... J204  
 PA RABBIT BREEDERS ASSOC. .... Y306  
 PA SHEEP & WOOL GROWERS ..... D101  
 PA SHORTHORN BREEDERS ..... L117  
 PA SIMMENTAL ASSOC..... L201  
 PA SOYBEAN BOARD ..... A107  
 PA STATE GRANGE ..... A402  
 PA VEGETABLE GROWERS ... V101, EC212  
 PA YOUNG FARMERS ASSOC. .... EC504  
 PABODY AGENCY ..... A307  
 PAMELA STERN AND ASSOCIATES.... A111  
 PARADISE ENERGY SOL..... W908  
 PATZ CORP ..... E500  
 PAUL MUELLER..... D110  
 PEAK FORAGE SOLUTIONS..... W10-100  
 PENN CHAP CONSULT FOREST. .... A108  
 PENN JERSEY PRODUCTS ..... W503  
 PENTA EQUIPMENT ..... W311  
 PEQUEA MACHINE ..... W555  
 PERDUE AGRI BUSINESS ..... A208  
 PERMA COLUMN EAST..... E611  
 PETERSHEIMS COW  
 MATTRESSES..... W10-109  
 PIK RITE..... W507  
 PINE HILL MFG/TRAILER..... E513  
 PIONEER/CORTEVA..... E620  
 POETTINGER ..... E112  
 POWER SYSTEMS ELECTRIC ..... W417  
 PRAXAIR ..... W120  
 PREMIER SELECT SIRE ..... D301

(continued on next page)

# Exhibitors and Location

PRICE MOTOR SALES.....	W315
PRIEFERT RANCH EQUIP CLAYCOMB.....	W512
PRO FLEET CARE.....	W114
PROFENCE LLC.....	W11-103
PROGRESSIVE PUBLISHING.....	G108
PSU AG & BIOLOGICAL ENGINEERING.....	C101
PSU AG & SHALE LAW CTR.....	A509
PSU AG ECON., SOC. & EDUC.....	A505
PSU AG SAFETY & HEALTH.....	DA140
PSU AG SCIENCES UNDERGRAD.....	C105
PSU AGRABILITY.....	HS206
PSU ANIMAL SC-DAIRY NUTRITION.....	W13-112
PSU ANIMAL SYSTEMS EXT TEAM.....	D103
PSU BEEKEEPER.....	YG101
PSU BIOFUELS ENERGY.....	J408
PSU CENTER FOR DIRT & GRAVEL.....	J201
PSU CENTRE CO 4-H ROBOTICS.....	C202
PSU CHESTNUT RESORATION & ASH BOAR.....	C301
PSU CMEG EQUIPMENT.....	CEA05
PSU DEPT OF ENTOMOLOGY.....	C302
PSU DEPT PLANT PATHO & ENVIRO MICRO.....	C305
PSU DEPT. OF ENT. BUTTERFLY TENT.....	W803
PSU ECO SC & MGMT.....	C201
PSU ENVIRON. RESOURCE MGMT.....	J406
PSU EQUINE SCIENCE.....	EB104-106
PSU EXT AG & ENVIRON CTR.....	J407
PSU EXT AG BUS. & RISK MGMT.....	A507
PSU EXT ANIMAL DIAGNOSTIC LAB.....	D104
PSU EXT FFH VECTOR BORNE DISEASE.....	C303
PSU EXT FIELD & FORAGE.....	J108
PSU EXT FOOD SAFETY & FOOD PRESERV.....	F205
PSU EXT FOOD/ COOKING DEMOS.....	F206
PSU EXT HEALTH ED. ALZHEIMERS.....	F104
PSU EXT LETS COOK W/ EXT.....	F102
PSU EXT MARCELLUS SHALE.....	J200
PSU EXT MASTER HEALTH.....	F204
PSU EXT NUTRIENT MGMT.....	J307
PSU EXT NUTRITION LINKS.....	F103
PSU EXT STRONG WOMEN/LIFT.....	F101
PSU EXT WATER RESOURCES.....	J411
PSU EXT WOMENS AG NETWK.....	J208
PSU FIELD & FORAGE TEAM-HAY.....	J211, J113
PSU FORESTRY EXT.....	C204
PSU CTR. FOR PRIV. FOREST.....	J107
PSU HAY SHOW.....	J211, J113
PSU MASTER GARDENERS.....	YG201
PSU MASTER WELL NETWORK.....	J404
PSU ON-FARM RESEARCH.....	J109A
PSU PA ONE STOP.....	CEA01
PSU PESTICIDE EDUCATION.....	F201
PSU PLANT PATH & MICROBIO.....	Y303
PSU PLANT SCI WEED ID.....	J207
PSU PRESS.....	M121
PSU STATE 4H PROGRAMS.....	Y201
PSU SUSTAINABLE AG.....	J410
PSU VETERINARY EXTENS.....	C103
PSU YARD & GARDEN.....	YG104

## Q

QUALITY CRAFT TOOLS.....	W416
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## R

RADIO WTLR FM.....	M116
REBELS CONSTR.....	L208
RED ANGUS ASSOC.....	L312
REINECKER AG.....	D313
RHINOAG.....	E200
RISSEER GRAIN.....	L308
ROC MERGERS.....	W610
RODMAN DRILL.....	D113
ROTO-MIX.....	E108
ROUNDHOUSE PWRSPORT.....	DA109
RURAL COMMUNITY INS.....	EC109
RYDER SUPPLY.....	W626

## S

S I DISTRIB.....	W212
SADDLE BUTTE AG.....	D310
SALSCO.....	W127
SAM FISHER AG CURTAINS.....	W10-103A
SAMASZ NA.....	W633
SCHAEFFER MFG.....	A513
SCHNUPPS GRAIN ROASTING.....	L316
SEED CONSULTANTS INC.....	E632
SEEDWAY.....	E612
SHADY LANE CURTAINS.....	W909B
SHAVERS CREEK TENT.....	Y102
SHOUP MFG.....	A305
SHOWEASE.....	W923
SHUR-CO.....	A113
SKYVIEW TRACTOR REPAIRS.....	W305
SLAYMAKER GROUP.....	W405
SMITHCO MFG INC.....	W927
SMUCKERS ENERGY.....	W903
SNYDER EQUIP.....	W423
SOLLEN-BERGER SILOS.....	W401
SONES GRAIN SYSTEMS.....	W508
STEINER / SCHILLER GROUNDS.....	E524
STEIN-WAY EQUIP.....	W129
STERLING TECHNOLOGY.....	EC402
STOLTZFUS SPREADERS.....	W605
STOR-LOC.....	EC306
SUKUP MFG.....	W313
SUMMIT HILL.....	W211
SUN DIRECTED.....	W902
SYNGENTA.....	E616

## T

T & B MEDICAL.....	W901
TAM SYSTEMS.....	E505
TEAMAG.....	A302
THE DAUGHERTY COMPANIES.....	A408
THE FERTRELL CO.....	D208
THUNDER CREEK.....	W402
TIGERCO DISTRIB.....	W926
TIMAC AGRO.....	G102
TIMBERWOLF.....	W10-123
TITAN IMPLEMENT.....	W551
TORO AG IRRIGATION.....	V106
TORO COMPANY-TURF EQUIP.....	W900
TRACTOR HOUSE/AUCTION TIME.....	A214
TRACTOR SUPPLY.....	E103
TROUBLE FREE LIGHTING.....	EC101

TURF TIME EQUIP.....	W118
TWIN VALLEY FARM SERVICE.....	W403

## U

UNVERFERTH MFG.....	W614
US ARMY CORPS ENGINEERS.....	J302
US EPA.....	J403
USDA APHIS WILDLIFE SVC.....	J304
USDA ARS PASTURE LAB.....	J210
USDA FARM SERVICE AGENCY.....	A502, J110
USDA NASS.....	J308
USDA NAT RESOURCES CONSERV.....	J205
USDA NE.....	J111
USDA RURAL DEV.....	A506

## V

VALMETAL USA.....	E313
VAN BEEK NATURAL SCIENCE.....	A410
VERMEER.....	W425
VICTORY HORSEMANSHIP.....	EB102

## W

WARRIORS MARK FENCING.....	W10-117
WEAVER DIST.....	EC513
WEAVERLINE LLC.....	W629

WECOVER STRUCTURES.....	E202B
WESTFIELD GROUP.....	EC503
WILD ROSE FENCE CO.....	E107
WINGFIELD MFG.....	W617
WOOD MIZER.....	W223
WORLD WIDE HOSE & SUPPLY.....	A512
WYNDHAM HOTELS & RESORTS.....	PFB113

## Y

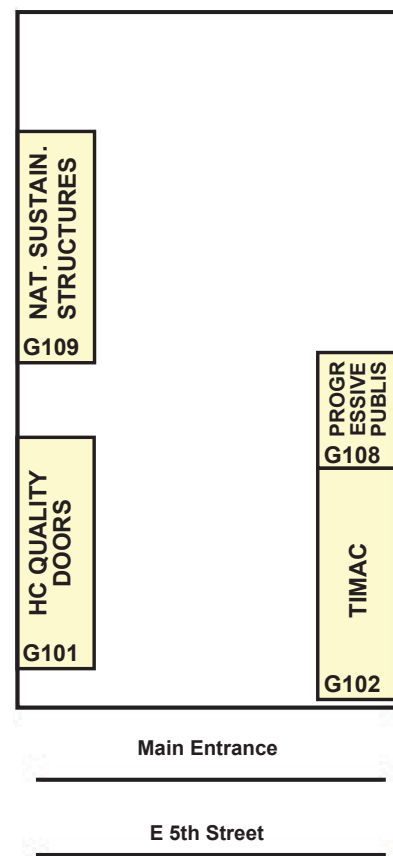
YANMAR AMERICA.....	W104
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## Z

ZARTMAN FARMS.....	W10-121
ZEISET EQUIP.....	W11-107
ZEISLOFT FARM EQUIPMENT.....	E102
ZERK ZAPPER.....	EC512
ZIMMERMAN.....	W915
ZIMMERMAN FARM SERVICE.....	W500
ZIMMERMANS GLASSLINED.....	W828

# Building and Tent Maps

(G) Exhibit Building 2 (East 5th St.)



# Building and Tent Maps

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

SHUR-CO A113	AKE SAFETY EQUIPMENT A112	PAMELA STERN AND ASSOCIATES A111	PA ASSOC OF COUNTY FAIRS A109	PA CHAP. CONSULTING FORESTERS A108	PA SOYBEAN BOARD A107	PA PORK PRODUCER COUNCIL A106	MASTER FARMERS A105	AG CHOICE FARM CREDIT  A101			
TRACTORHOUSE A214	MILLNER-HAUFEN TOOL COMPANY A212	ADM CROP RISK SERVICES A210	PERDUE AGRIBUSINESS A208	FASTLINE PUBLICATIONS A207	METZLER FOREST PRODUCTS A205						
BAKER AG-LIME A312	APPLIED BIO MINERALS A310	CLEANFIX NA A309	PABODY AGENCY A307	SHOUP MFG A305	CONKLIN A303	TEAMAG INC. A302	LANCASTER FARMING A301				
PA FARM LINK A412	PA ONE CALL SYSTEM A411	VAN BEEK NATURAL SCIENCE A410	DONEGAL INSURANCE GROUP A408	LIQUITUBE MARKETING INTERNAT. A407	GOODVILLE MUTUAL CASUALTY A405	NACHURS A404	PA STATE GRANGE A402				
SCHAEFFER MFG CO. A513	WORLDWIDE HOSE & SUPPLY A512	BEILER - CAMPBELL REALTORS A510	AG & SHALE LAW PSU A509	PSU EXT. AG BUSINESS & RISK MGMT A507	USDA RURAL DEVELOPMENT A506	PSU AESE RESEARCH VOLUNTEERS A505	PA CORN GROWERS A503	USDA FARM SERVICE AGENCY A502	FARM AND LAND A501	ATM	

Main Entrance

Main Street

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

CHRISTIAN FARMERS EC114	CLEAN CUTTER EC112	INTEGRITY EC111	RURAL COMMUN EC109	BERGMAN MFG EC105	MUSCLE PRODUC EC104	MURRAY SECURUS EC102	TROUBLE FREE EC101				
PA VEG. EC212							EVERETT EC201				
ABILENE MACHINE EC311	EPHRATA NATIONAL EC310	COUNTRY WAY EC308	STOR-LOC EC306	A.M. LOGGING EC305	BUSINESS LEASE EC303	HOSTETT-ER EC302					
FARMCH AINS.COM EC411	DISCOUNT EC410	GRO-MOR PLANT FOOD EC408	GREEN MT EC406	BAD DOG TOOLS EC405	FULTON BANK NA EC403	STERLING EC402	EVERETT CASH MUTUAL EC401				
DOG GUARD EC211											
PA LYME EC515	WEAVER DISTRIB. EC513	ZERK ZAPPER EC512	IMMUCELL EC511	FARM FAMILY CASUALTY EC507	BOYD STATION EC505	PA YOUN EC504	WEST-FIELD 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 AMER. CHESTNUT <b>J101</b>	N. TIER HARDWOOD <b>J102</b>	PA FORESTRY <b>J103</b>	PA FOREST PRODUCTS <b>J104</b>	PA DCONR FORESTRY <b>J105</b>	PA CONSERV. DIST. <b>J106</b>	PSU EXT. FORESTRY LANDOWNERS <b>J107</b>	PSU EXT. FORAGE and ON-FARM RESEARCH <b>J108</b>	PSU AG ANALYTICAL LAB <b>J109</b>	USDA-FSA <b>J110</b>	USDA-NE <b>J111</b>	PA FORAGE & GRASS <b>J112</b>	HAY SHOW <b>J113</b>													
PSU EXT. MARCELLUS <b>J200</b>						PSU DIRT & GRAVEL RDS. <b>J201</b>		CLEAR-WATER <b>J202</b>		PA GAME COMMIS. <b>J203</b>		PA QUALITY DEER <b>J204</b>		USDA-NRCS <b>J205</b>		PSU EXT. WEED ID <b>J207</b>		PA WOMEN'S AG <b>J208</b>		PA ASSOC. SUSTAIN. AG <b>J209</b>		USDA-ARS <b>J210</b>		HAY SHOW  <b>J211</b>	
CHESAPEAKE BAY FOUNDAT. <b>J300</b>			U.S. ARMY CORPUS OF ENGIN. <b>J302</b>			USDA APHIS WILDLIFE SERVICES <b>J304</b>		USDA-NRCS <b>J305</b>		PSU EXT. NUTR. MGMT. <b>J307</b>		USDA-NASS <b>J308</b>		PA CERTIF. ORGANIC <b>J309</b>											
PA DEP <b>J401</b>		US EPA <b>J403</b>		PSU MASTER WELL OWN. <b>J404</b>		PA GROUND WATER ASSOC. <b>J405</b>		PSU ERSM <b>J406</b>		PSU AG & ENVIR. CTR <b>J407</b>		PSU BIOFUELS & ENERGY <b>J408</b>		PSU SUSTAIN. AG <b>J410</b>		PSU EXT WATER RESOURCES <b>J411</b>									

Entrance to Corn Maze

W 12th Street

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

CITI-ZENS D117	NAT. DAIR D116	DEEP VALLEY D114	RODMAN DRILL D113	INTERNAT. STOCK D111	PAUL MUELLER D110	VENT	AMER. ANGUS D107	CTR. DAIRY D106	PA BEEF D105	PSU ANIM D104	PSU ANIMAL D103	PA SHEEP D101				
MARTIN CONSTRU D211		COSMEXP INC D209			FERTRELL CO D208		MD & VA MILK D207		NAT. FARM D206		HOARD'S DAIRY D205		AMER. DAIRY ASSOC NE D203		DAIRY PRINCESS & D201	
REINECKER AG D313			LANCO PENNLAN D311		SADDLE BUTTE D310		DAIRY FARMER D306			DAIRY ONE D305		FISHER & THOMPS D303		SELECT SIRE D301		

Main Entrance

Main Street

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

PA SHOR L117	PA CATT L116	CALLICRATE L114	CHEMGRO L113	AGRI-TRAC L111	MID-ATLANT. L110	MARTIN WATER L107	AMERICAN FARM L106	FULL CIRCLE L104	KINGS AGRISEE L102	DBC AG PROD. L101
REBEL'S L208						MOYERS CHICKS L205		PA SIMMENTAL L201		
COUNTRY FOLKS L317	SCHNUPP'S GRAIN L316	NELSON & SONS L314	MULTIMIN USA L313	RED ANGU L312	NORTHWEST L310	RISSER GRAIN L308	LANCASTER DHIA L306	MID-ATLAN. L305	AGRI-NUTRIT. CONSULTING L301	

Main Entrance

Main Street

W 13th Street



# 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. **Note: Walking and/or standing is involved once the bus arrives at the tour destination.**

<p><b>NEW! Strategies for Improving Dairy Cropping Systems Tour</b> (2 hours)</p>	<p>Gain insights to the lessons learned from a 10-year multidisciplinary research project evaluating crop rotations, nutrient management, pest management, dairy cow feed management to reduce inputs and environmental impact, adapt to weather challenges, and enhance farm production and profitability. See some of the crops and talk with researchers involved.</p> <p>Bus leaves Wednesday at 10:30 a.m. (one day only) <b>Note: Walking/standing involved. No restrooms available.</b></p>
<p><b>Hops Research and Hopyard Tour</b> (1 hour)</p>	<p>The brewing industry in Pennsylvania has a \$1.9 billion dollar economic impact. Hops, a perennial plant, is a key ingredient in the brewing industry that was grown in Pennsylvania and declined. Now recent research has improved varieties of hops that will grow well in the state. This tour will showcase Penn State's hopyard and the efforts to evaluate these varieties for yield and quality characteristics. Equipment used in a small-scale hops production will also be on display.</p> <p>Bus leaves daily at 1:00 p.m.</p>
<p><b>High Tunnel Tour</b> (2 hours)</p>	<p>High tunnels are inexpensive structures used for extending the growing season and improving yields and quality of vegetables, berries, and cut flowers. At Penn State's High Tunnel Research and Extension Facility, strawberries, raspberries, and vegetables are being grown in containers in 15 tunnels with five different types of plastics to better manage plant growth, temperatures, and pests. Learn about work being done with farmers on different approaches for using biocontrols to manage aphids in high tunnels (funding provided by the USDA Extension IPM Program). Also, effects of the plastics on yields and microenvironment will be discussed. See some of the latest methods to attract natural enemies to high tunnels, as well as some different options for managing tunnel venting.</p> <p>Bus leaves daily at 10:30 a.m. and 1:30 p.m. <b>Note: Walking/standing involved. No restrooms available.</b></p>
<p><b>Managing Livestock Pastures with Alternative Forages</b> (1.5 hours)</p>	<p>This tour features hands-on activities with cattle on pastures. Producers will leave with an understanding of paddock fencing/watering system components with in-depth discussion about field practices and evaluation of cover crop mixes by looking at root structure and soil health indicators. High stock density grazing will be demonstrated with a small herd of black angus cattle, and we'll talk about the use of alternative forages and diverse cover crops to transform mediocre fields into highly productive ones. We'll also talk about soil health principles for both cropping and livestock operations using a Rainfall Simulator demonstration.</p> <p>Bus leaves daily at 12:30 p.m., with additional tours Wednesday and Thursday at 10:30 a.m.; Tuesday and Wednesday at 2:30 p.m.</p> <p><b>Note: Walking/standing involved. No restrooms available.</b></p>
<p><b>Managing Equine Pastures and Drylots</b> (1.5 hours)</p>	<p>This tour features a demonstration using horses with hands-on activities in equine pastures. Producers will leave with an understanding of pasture management for horses, do's and don'ts of sacrifice areas and the tools needed to help improve equine operations. We'll walk 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.</p> <p>Bus leaves daily at 12:30 p.m., with additional tours Wednesday and Thursday at 10:30 a.m.; Tuesday and Wednesday at 2:30 p.m.</p> <p><b>Note: Walking/standing involved. No restrooms available.</b></p>
<p><b>Multifunctional Stream Buffers and Native Grass Field Tour</b> (1 hour)</p>	<p>This 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, and 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.</p> <p>Bus leaves daily at 11:30 a.m. <b>Note: Walking/standing involved. No restrooms available.</b></p>
<p><b>Forest Management Tour: Woods and Wildlife</b> (1.5 hours)</p>	<p>Woodlots provide a great deal of value but require some level of time, commitment, and planning. Every decision and activity raises new challenges and opportunities. Explore Penn State's Demonstration Forest and gain valuable insights into how woods are managed for timber production, wildlife habitat, water quality, recreational activities, and research. Forestry and wildlife professionals lead the tours and will be available to answer your questions and find resources to effectively steward Pennsylvania's woods.</p> <p>Bus leaves daily at 11:00 a.m. and 2:00 p.m.</p> <p><b>Note: Walking on trails over uneven terrain and standing in thick forest area involved. No restrooms available.</b></p>
<p><b>Habitat Management for Deer and Other Wildlife Tour</b> (1.5 hours)</p>	<p>This tour will focus on food plots and natural habitat management practices used on public or private property as part of a Quality Deer Management System to improve habitat for many wildlife species while producing healthier and larger deer. Visit habitat demonstration plots (with new features) in the woodlot and neighboring fields.</p> <p>Bus leaves daily at 9:30 a.m. and 12:30 p.m. with additional tour Wednesday at 3:30 p.m. <b>Note: Walking/standing involved. No restrooms available.</b></p>
<p><b>Dairy Beef Feedlot Tour</b> (1 hour)</p>	<p>This tour will showcase finishing cattle fed corn-based diets. The tour will focus on the benefits and sustainability of finishing steers fed grain diets for beef production. Observe cattle in a feedlot that have been fed these diets. This demo is being brought to you by the Pennsylvania Beef Working Group (a collaboration of Penn State Extension, PA Beef Council, Center for Beef Excellence, and PA Cattlemen's Association) and Pennsylvania Department of Agriculture with support from JBS.</p> <p>Bus leaves at 2:00 p.m. on Tuesday; at 10:00 a.m., noon, and 2:00 p.m. on Wednesday; and at 10:00 a.m. on Thursday.</p> <p><b>Note: Walking/standing involved; restrooms will be available.</b></p>
<p><b>Russell Larson Research Facilities Farm Tour</b> (1 hour)</p>	<p>This tour will visit each of the University-supported farms at the Rock Springs Facility. Farm managers will present a brief overview of the farm, current research, and student involvement, as well as answer participant questions.</p> <p>Bus leaves daily at 11:00 a.m. with additional tours on Tuesday at 2:30 p.m. and Wednesday at 2:30 and 5:00 p.m.</p> <p><b>Note: Minimal walking involved. No restrooms available.</b></p>

# Ag Progress Days Area Map



GATE J



MR. TOOL E100	ZEISLOFT EQUIP E102	CDL USA E106A	CPI E106B	ROTO-MIX E108	CLEVELAND BROTHERS E110	POETTINGER US E112	MID-ATLANTIC PLANTER E118
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E 1 STREET

PA BEEKEEPERS E200	TRACTOR SUPPLY E103	WILD ROSE FENCE E107	HAMILTON EQUIP E109	MARTIN TILL E115	AGCO E117
RHINO AG	WECOVER STRUC. E202B				



FARMET USA H100
DYNA H101

E 2 STREET

NEW HOLLAND E201	CARL NEUTZEL E209	HAYBUSTER E213	MESSICK'S E215
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DION-AG H103
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E 3 STREET

DK HOSTETLER E301	VALMETAL USA E313	JAMESWAY FARM EQUIP E317	AUTOMATIC FARM SYSTM E321	LAND PRIDE E325	KUBOTA TRACTOR E333	MANITOU GEHL E351
PATZ E500	PA FARM BUREAU E512	(G) EXHIBIT BLDG #2	BURLY ATTACHMENTS E520B	STEINER SCHILLER E524	CEDAR CREST EQUIP E528	MAHINDRA USA E536



HARRINGTON LANE

PSU PA ONE STOP CEA01	NRCS WATER DISPLAY	PENN STATE CROP MGMT CEA05
ERNST SEEDS CEA11	ASSOC. MARK SEEDS (GRASS) CEA12	PA 4R ALLIANCE CEA13
PA NO-TILL ALLIANCE CEA14		

E 5 STREET

TAM SYSTEMS E505	PINE HILL MFG	M M WEAVER-CLAAS E517	CLOVERDALE EQUIP E525	GROWMARK FS LLC/DEKALB E529	GROWMARK FS LLC/DEKALB E533
ANTIQUE TRACTOR M101	E513	SEEDWAY	SYNGENTA	PIONEER	HUBNER SEED
MORTON BLDG E600	KEYSTONE GROUP AG SEEDS E608	E612	E616	E620	E624
					SEED CONSULTANTS INC E632

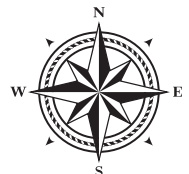
(J) JOSEPH D. HARRINGTON BLDG.
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(CC) PSU COVER CROP PLOT
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(CM) CORN MAZE
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E 6 STREET

Map Legend on page 11



# Ag Progress Days Area Map

W 6 STREET

SAMASZ	WEAVERLINE W629	DEER CTRY FARM & LAWN	FARMERS CHOICE TIRE SERVICE W621	WINGFIELD MFG W617	LANDOLL W613	COWCO	STOLTZFUS SPREADERS W605	LEGACY TRUCK CTR.	(EC) EVERETT CASH MUTUAL BLDG.
W633		ADAMS SUPPLY W625	H&S MFG				ZIMMER GLASS-LINED STOR. W609	W601	
ROUND-HOUSE PWRSPTS DA109 AGRI-PLASTICS MFG	LEIDEN LAND & CATTLE				HUD-SON FOREST		M. H. EBY	LONG ACRES FARMS	PA MAPLE PRODUCERS PA DAIRY PRINCESS
W856	W852	W848	W619		W836	W828	W816	W808	

W 8 STREET

KUHN N. AMERICA W845	HOOPER TRACTOR	ALLEGHENY AG W833	AMERI-AG W829	CANNS BILCO W825	(Y) YOUTH BUILDING W807B	SHAVEN'S CREEK TENT W803	BELCO RESOURCES EQUIP W801	CHIEF LOGAN LIONS / PA CATTLEMEN'S ASSOCIATION	
TIGERCO	C K MFG	NUHN IND.	ALLAN MYERS	CENT-RICA	E. RISSLER MFG	NORTHEAST AGRI SYSTEM	PARADISE ENERGY SOL.	(F) FAMILY ROOM W805B	
W926	W924	W841	W920	W918B	W918A	W916	W914	W908	
									HEAT SMART PLUS W904
									SUN DIRECTED W902
									TORO COMPANY W900

W 9 STREET

I & J MFG W933	SMITHCO MFG INC W927	SHOW-EASE INC. W923	IBA INC. W921	KEYSTONE CONCRETE PROD W919	CROPCARE W917	ZIMMERMAN W915	CLARKS AG SUPPLY W913	AGRI-KING W911	SHADY LANE W909B	SMUCKERS ENERGY W903	T & B MEDICAL W901
LAWN CARE DISTB.	AK FABRIC BLDGS		ESB ALUMINUM PRODUCTS		AURIFY SALES	GRASSWORKS MFG	NEXTIRE	PEAK FORAGE	(C) COLLEGE BUILDING M116B		RADIO-WTLR M116
W10130	W10124		W10118		W10114	W10108	W10104	W10100			

W 10 STREET

TIMBERWOLF W10123	ZARTMAN FARMS W10121	BAZOOKA FARMSTAR W10119	WARRIORS MARK FENCE W10117	EASTERN STATES LIVESTOCK W10115	LANCASTER TRACTOR SERVICE W10113B	METALERG INC. W10113A	KENCOVE FARM FENCE W10111	PETERSHEIMS W10109	IVA MFG W10107	BRUTE FORCE W10105	S. FISHER AG CURTAINS W10103A	ELI FISHER CONSTRUCTION W10103B	PA DEPT OF AG M118
			MIRACO		INNOVATIVE DAIRY SOL			DAIRY-MASTER USA	LANCASTER PARTS & EQUIP	HEATMOR	PA HARB-WOOD DEV COUNCIL W11100		

W 11 STREET

(YG) YARD AND GARDEN AREA W11117	PSU MASTER GARDENERS W11115	PA POTATO GROWERS W11113	ZEISET EQUIP W11107	DOUBLE B FARM SUPPLY W11105	PROFENCE LLC W11103	DELAVAL W11101	(S) SPECIAL EVENTS BLDG.
	BUTTERFLY TENT W12112		ELANCO ANIMAL HEALTH W12104				

W 12 STREET

Exhibitor Parking	(D) DAIRY AND LIVESTOCK TENT # 1	(L) DAIRY AND LIVESTOCK TENT # 2	KENT NUTRITION W13116	PSU ANIMAL SCI W13112	CART W13110
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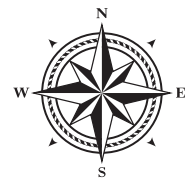
W 13 STREET

(ET) EQUINE TENT	W13115	(EB) EQUINE EXHIBITS BLDG.
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PA AG

(MH) MAIN HORSE ARENA

John Deere



# Map Legend

	Commercial Indoor Exhibits		ATM		Loading Dock
	College Exhibits		Baby Changing/Nursing 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



# Daily Schedule

## Tuesday, August 13

Locations Abbreviation Key for Exhibits  
can be found on page 2 of this program

Start Time	Event Title	Focus	Location
ALL DAY	Antique Tractor Display	Farm and Business	AT
	Safety on the Farm Demonstrations	Healthy Lifestyle	HS
	Assistive Technology Demonstrations	Healthy Lifestyle	HS
	Hay Show	Crops, Forage, Hays, and Soils	J
	Garden Hotline	Home, Lawn and Garden	YG
	Free Hearing Test	Healthy Lifestyle	HS
	Concussion Education	Healthy Lifestyle	HS
	Corn Maze	Family	CM
	Pennsylvania 4-H – Animal Science and PA 4-H Store	Youth and Family	Y
	Good Time 4-H Club – Embryology	Youth and Family	Y
	PA Dairy Princess and Promotion – Dairy Wheel	Youth and Family	Y
	PSU Plant Pathology – Plants Get Sick Too!	Youth and Family	Y
	Critters Inc. Poultry 4-H Club – Exploring 4-H Poultry Projects	Youth and Family	Y
9:00 a.m.	Drones in Agriculture Demonstration	Regulations	SD
	Pasto Museum Silent Auction; Ends 3 p.m. Wednesday	Family	P
9:30 a.m.	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
10:00 a.m.	PA Preferred Homegrown by Heroes	Farm and Business	PDA
	Best Practices for Safe Grain Handling Demonstration	Ag Safety and Health	SD
	Soil Water Holding Capacity with Different Tillage Systems Demonstration	Energy and Water	CEA
	Water Bath Canning: Blueberry Spice Jam	Cooking and Food Safety	F
	Free Blood Pressure Readings	Healthy Lifestyle	HS
	Free Stroke Assessments	Healthy Lifestyle	HS
	Biochar Research Overview Summer 2019	Energy and Water	FF
	Seed Saving Basics	Home, Lawn and Garden	YG
	Vegetable Equipment Demo	Farm and Business	V
	Butterfly Tent – until close	Youth and Family	YG
	Miniature Horses	Equine	MH
10:30 a.m.	Draft Horse Hitch	Equine	MH
	High Tunnel Tour	Home, Lawn and Garden	T
	Hay Mowing and Tedders	Crops, Forage, Hays, and Soils	ED
	Town Hall Meeting: Sec. Redding and Dean Roush	Farm and Business	CT
	Torrefied Wood Pellets vs Standard Pellets: What's the Difference?	Forest Resources	FF
11:00 a.m.	Bear Hill Horse Logging	Equine	MH
	Russell Larson Farms Tour	Farm and Business	T
	Historic Demonstration of the 1905 Panama O.K. Hay Press	Crops, Forage, Hays, and Soils	P
	Victory Garden Talk	Home, Lawn and Garden	YG
	Forest Management Tour: Woods and Wildlife	Forest Resources	T
	Biochar Business Model Overview: From the Beginning	Energy and Water	FF
	Children's Story Time "Animal Tales"	Youth and Family	Y
	Snakes of Pennsylvania	Animals	SC
	Kid's Tree Climb – concludes at 2 p.m.	Forest Resources	KC
	Cooking With Kids: Seasoning Blends	Cooking and Food Safety	F
	Personal Protection Equipment Presentation	Healthy Lifestyle	HS

# Tuesday, August 13

Locations Abbreviation Key for Exhibits  
can be found on page 2 of this program

Start Time	Event Title	Focus	Location
11:30 a.m.	Sorghum Chopping and High Speed Tillage	Crops, Forage, Hays, and Soils	ED
	Grafting Tomatoes	Home, Lawn and Garden	V
	Multifunctional Stream Buffers and Native Grass Field Tour	Energy and Water	T
12:00 p.m.	Hops Research Presentation	Crops, Forage, Hays, and Soils	FF
	Best Practices for Safe Grain Handling Demonstration	Ag Safety and Health	SD
	Water Bath Canning: Blueberry Spice Jam	Cooking and Food Safety	F
	Defending Yourself Against Ticks and Vector Borne Disease	Healthy Lifestyle	CT
	Turtles of Pennsylvania	Animals	SC
12:30 p.m.	Handling and Training the Young Horse	Equine	MH
	Managing Equine Pastures and Dry lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
	Spotted Lanternfly Update	Farm and Business	CT
1:00 p.m.	Cooking With Kids: Easy Fruit and Veggie Smoothies	Cooking and Food Safety	F
	Personal Protection Equipment Presentation	Healthy Lifestyle	HS
	10 Common Gardening Questions	Home, Lawn and Garden	YG
	Hopyard Tour	Crops, Forage, Hays, and Soils	T
	Cover Crop Planting Green Demo	Crops, Forage, Hays, and Soils	ED
	Identifying Common Invasive Forest Plants	Forest Resources	CT
	Recruiting and Motivating Volunteers	Youth and Family	RB
	Hemp Crops Grown in PA	Crops, Forage, Hays, and Soils	V
	Reduce Your Farm's Energy Costs— Strategies and Resources Available to Ag Community	Farm and Business	FF
1:30 p.m.	PA State Police Mounted Patrol	Equine	MH
	High Tunnel Tour	Home, Lawn and Garden	T
	Children's Story Time "Animal Tales"	Youth and Family	Y
	Historic Demonstration of the 1905 Panama O.K. Hay Press	Crops, Forage, Hays, and Soils	P
	Invasion of the Round Goby: Implications for the PA Bivalves	Energy and Water	CT
	Energy Saving Tips for Field Crop Production	Farm and Business	FF
2:00 p.m. <i>continued on next page</i>	Crunchy Kale Salad	Cooking and Food Safety	F
	Foreign Animal Disease (FAD's) – A Real Risk... Not Just Initials	Animals	CT
	Commanding a Performance, Using Horsemanship Skills	Equine	MH
	Beef Feedlot Tour, Why do we finish cattle on corn-based diets?	Livestock	T

## Daily Schedule Locations

### From Main Street:

**E. 5th St.:** AT-Antique Tractors and PFB Bldg.

**E. 7th St.:** AP-Ag Choice Tent

**E. 9th St.:** FF-Farm Family Learning Center

**Beyond 1st St.:** ED-Equipment Demo Ride and Drive

**W. 8th St.:** SC-Shaver's Creek Tent and Y-Youth Bldg.

**W. 9th St.:** F-Family Bldg. and Cooking  
Demonstration Theater

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

**11th St.:** P-Pasto Museum, RB-Red Barn Meeting  
Rooms (U/D), S-Special Events Bldg., and T-Tours

**W. 13th:** EB-Equine Exhibit Bldg., K-Kid's Climb,  
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-Vegetable Garden Demonstration  
Area and Tent

## Key to Category Colors

Agriculture	Animals	Food & Health	Lawn & Garden	Natural Resources	Youth & Family
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## Tuesday, August 13

Locations Abbreviation Key for Exhibits  
can be found on page 2 of this program

Start Time	Event Title	Focus	Location
2:00 p.m. <i>continued</i>	Forest Management Tour: Woods and Wildlife	Forest Resources	T
	Vegetable Equipment Demo	Farm and Business	V
	Beneficial Insects at the Pollinator Garden	Home, Lawn and Garden	CEA
	Flower Arranging	Home, Lawn and Garden	YG
	Monarchs	Animals	SC
	Best Practices for Safe Grain Handling Demonstration	Ag Safety and Health	SD
	Hay Merging and Raking	Crops, Forage, Hays, and Soils	ED
	Renewable Energy Assistance Grants (REAP) – Where to Find Help	Farm and Business	FF
2:30 p.m.	Managing Equine Pastures and Dry lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
	Russell Larson Farms Tour	Farm and Business	T
	Hay Baling and Bale Handling	Crops, Forage, Hays, and Soils	ED
	The Dangers and Opportunities of Growing Hemp	Crops, Forage, Hays, and Soils	CEA
	Advanced Agriculture Sensing and Automation	Farm and Business	CT
	PA's Renewable Energy Credit Market, Since the Borders Closed	Energy and Water	FF
3:00 p.m.	Cooking With Kids: Seasoning Blends	Cooking and Food Safety	F
	The Importance of Adjusting Horses Stride to Find a Distance	Equine	MH
	Drones in Agriculture Demonstration	Regulations	SD
	Genetics, Site Quality, and Proximity to Infected Trees Affect Response to Emerald Ash Borer	Forest Resources	CT
3:30 p.m.	Bear Hill Horse Logging	Equine	MH
	Children's Story Time "Animal Tales"	Youth and Family	Y
4:00 p.m.	Crunchy Kale Salad	Cooking and Food Safety	F

## Wednesday, August 14

ALL DAY	Free Hearing Test	Healthy Lifestyle	HS
	Concussion Education	Healthy Lifestyle	HS
	Antique Tractor Display	Farm and Business	AT
	Safety on the Farm Demonstrations	Healthy Lifestyle	HS
	Assistive Technology Demonstrations	Healthy Lifestyle	HS
	Hay Show	Crops, Forage, Hays, and Soils	J
	Garden Hotline	Home, Lawn and Garden	YG
	Corn Maze	Family	CM
	Pennsylvania 4-H – Animal Science and PA 4-H Store	Youth and Family	Y
	Good Time 4-H Club – Embryology	Youth and Family	Y
	PA Dairy Princess and Promotion – Dairy Wheel	Youth and Family	Y
	PSU Plant Pathology – Plants Get Sick Too!	Youth and Family	Y
	Critters Inc. Poultry 4-H Club – Exploring 4-H Poultry Projects	Youth and Family	Y
	Pennsylvania State Rabbit Breeders Association	Youth and Family	Y
9:00 a.m.	Drones in Agriculture Demonstration	Regulations	SD
9:30 a.m.	Keystone Dressage and Combined Training Drill Team	Equine	MH
	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
	Controlling Common Invasive Forest Plants	Forest Resources	FF



# Wednesday, August 14

Locations Abbreviation Key for Exhibits can be found on page 2 of this program

Start Time	Event Title	Focus	Location
10:00 a.m.	Urban Farming Presentation	Farm and Business	PDA
	PA House and Senate Ag and Rural Affairs Committee Informational Meeting	Farm and Business	CT
	Soil Water Holding Capacity with Different Tillage Systems Demonstration	Energy and Water	CEA
	Spotted Lanternfly Update	Farm and Business	FF
	Centre County 4-H Robotics	Youth and Family	C
	Quinoa with Lime and Black Beans	Cooking and Food Safety	F
	Free Blood Pressure Readings	Healthy Lifestyle	HS
	Free Stroke Assessments	Healthy Lifestyle	HS
	Personal Protection Equipment Presentation	Healthy Lifestyle	HS
	Draft Horse Hitch	Equine	MH
	Beef Feedlot Tour, Why do we finish cattle on corn-based diets?	Livestock	T
	From Garden to Genetic Engineering: The Tale of 2 Bacteria	Home, Lawn and Garden	YG
	Vegetable Equipment Demo	Farm and Business	V
	Butterfly Tent – until close	Youth and Family	YG
10:30 a.m.	AgBiz Masters Mini-Session – 10 Good Reasons To Start Farming Today	Farm and Business	AP
	Strategies for Improving Dairy Cropping Systems	Livestock	T
	Hay Mowing and Tedders	Crops, Forage, Hays, and Soils	ED
	Industrial Hemp Updates	Crops, Forage, Hays, and Soils	FF
	Recruiting and Motivating Volunteers	Youth and Family	RB
	Paso Fino Horses	Equine	MH
	Managing Equine Pastures and Dry lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
	High Tunnel Tour	Home, Lawn and Garden	T
11:00 a.m.	Russell Larson Farms Tour	Farm and Business	T
	Best Practices for Agricultural Rescue	Ag Safety and Health	SD
	Historic Demonstration of the 1905 Panama O.K. Hay Press	Crops, Forage, Hays, and Soils	P
	Flower Arranging	Home, Lawn and Garden	YG
	Sicilian Eggplant Pasta	Cooking and Food Safety	F
	Forest Management Tour: Woods and Wildlife	Forest Resources	T
	Kid's Tree Climb until 6 p.m.	Forest Resources	KC
	Children's Story Time "Animal Tales"	Youth and Family	Y
	Turtles of Pennsylvania	Animals	SC

## Daily Schedule Locations

### From Main Street:

**E. 5th St.:** AT-Antique Tractors and PFB Bldg.

**E. 7th St.:** AP-Ag Choice Tent

**E. 9th St.:** FF-Farm Family Learning Center

**Beyond 1st St.:** ED-Equipment Demo Ride and Drive

**W. 8th St.:** SC-Shaver's Creek Tent and Y-Youth Bldg.

**W. 9th St.:** F-Family Bldg. and Cooking Demonstration Theater

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

**11th St.:** P-Pasto Museum, RB-Red Barn Meeting Rooms (U/D), S-Special Events Bldg., and T-Tours

**W. 13th:** EB-Equine Exhibit Bldg., K-Kid's Climb, 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-Vegetable Garden Demonstration Area and Tent

## Key to Category Colors

Agriculture	Animals	Food & Health	Lawn & Garden	Natural Resources	Youth & Family
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# Wednesday, August 14

Locations Abbreviation Key for Exhibits  
can be found on page 2 of this program

Start Time	Event Title	Focus	Location
11:30 a.m.	Bear Hill Horse Logging	Equine	MH
	Multifunctional Stream Buffers and Native Grass Field Tour	Energy and Water	T
	Sorghum Chopping and High Speed Tillage	Crops, Forage, Hays, and Soils	ED
	Grafting Tomatoes	Home, Lawn and Garden	V
12:00 p.m.	Quinoa with Lime and Black Beans	Cooking and Food Safety	F
	AgBiz Masters Mini-Session – Financial Management Planning for Young Producers	Farm and Business	AP
	Hops Research Presentation	Crops, Forage, Hays, and Soils	FF
	Beef Feedlot Tour, Why do we finish cattle on corn-based diets?	Livestock	T
	Venomous Snakes of Pennsylvania	Animals	SC
12:30 p.m.	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
	Managing Equine Pastures and Dry Lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
1:00 p.m.	Centre County 4-H Robotics	Youth and Family	C
	Cooked Peach Jam	Cooking and Food Safety	F
	Miniature Horses	Equine	MH
	Best Practices for Agricultural Rescue	Ag Safety and Health	SD
	Hopyard Tour	Crops, Forage, Hays, and Soils	T
	Cover Crop Planting Green Demo	Crops, Forage, Hays, and Soils	ED
	Hemp Crops Grown in PA	Crops, Forage, Hays, and Soils	V
	Research in The Schatz Center for Tree Molecular Genetics	Forest Resources	FF
Growing Garlic	Home, Lawn and Garden	YG	
1:30 p.m.	AgBiz Masters Mini-Session – 10 Good Reasons To Start Farming Today	Farm and Business	AP
	Handling and Training the Young Horse	Equine	MH
	High Tunnel Tour	Home, Lawn and Garden	T
	Children's Story Time "Animal Tales"	Youth and Family	Y
	Defending Yourself Against Ticks and Vector Borne Disease	Healthy Lifestyle	RB
2:00 p.m.	Agricultural Roundtable with Congressman Glenn Thompson – A Public Discussion of the Farm Bill and Agricultural Policy	Farm and Business	CT
	Hay Merging and Raking	Crops, Forage, Hays, and Soils	ED
	Drones in Agriculture Presentation	Regulations	FF
	Mediterranean Chickpea Salad	Cooking and Food Safety	F
	Personal Protection Equipment Presentation	Healthy Lifestyle	HS
	Beef Feedlot Tour, Why do we finish cattle on corn-based diets?	Livestock	T
	Forest Management Tour: Woods and Wildlife	Forest Resources	T
	Beneficial Insects at the Pollinator Garden	Home, Lawn and Garden	CEA
	Vegetable Equipment Demo	Farm and Business	V
Monarchs	Animals	SC	
2:30 p.m.	Pa. State Police Mounted Patrol	Equine	MH
	Managing Equine Pastures and Dry lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
	Russell Larson Farms Tour	Farm and Business	T
	Hay Baling and Bale Handling	Crops, Forage, Hays, and Soils	ED
	Utilizing Spring Forages in Dairy Systems	Crops, Forage, Hays, and Soils	CEA

## Wednesday, August 14

Locations Abbreviation Key for Exhibits  
can be found on page 2 of this program

Start Time	Event Title	Focus	Location
3:00 p.m.	Cooked Peach Jam	Cooking and Food Safety	F
	Children's Story Time "Animal Tales"	Youth and Family	Y
	Amphibians of Pennsylvania	Animals	SC
	Keystone Dressage and Combined Training Drill Team	Equine	MH
	It's Tool Time	Home, Lawn and Garden	YG
	Drones in Agriculture Demonstration	Regulations	SD
	American National Succession Planning for Farmers	Farm and Business	FF
3:30 p.m.	Paso Fino Horses	Equine	MH
	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
	Children's Story Time "Animal Tales"	Youth and Family	Y
4:00 p.m.	Tex-Mex Salsa	Cooking and Food Safety	F
4:30 p.m.	Centre County 4-H Drill Team	Equine	MH
5:00 p.m.	Mediterranean Chickpea Salad	Cooking and Food Safety	F
	What is a Fruit?	Home, Lawn and Garden	YG
	Russell Larson Farms Tour	Farm and Business	T
5:30 p.m.	Children's Story Time "Animal Tales"	Youth and Family	Y
6:00 p.m.	Tex-Mex Salsa	Cooking and Food Safety	F
	Salute to America	Equine	MH
7:00 p.m.	Children's Story Time "Animal Tales"	Youth and Family	Y

## Thursday, August 15

ALL DAY	Safety on the Farm Demonstrations	Healthy Lifestyle	HS
	Assistive Technology Demonstrations	Healthy Lifestyle	HS
	Hay Show	Crops, Forage, Hays, and Soils	J
	Antique Tractor Display	Farm and Business	AT
	Garden Hotline	Home, Lawn and Garden	YG
	Free Hearing Test	Healthy Lifestyle	HS
	Concussion Education	Healthy Lifestyle	HS
	Corn Maze	Family	CM
	Pennsylvania 4-H – Animal Science and PA 4-H Store	Youth and Family	Y
	Good Time 4-H Club – Embryology	Youth and Family	Y
	PA Dairy Princess and Promotion – Dairy Wheel	Youth and Family	Y
	PSU Plant Pathology – Plants Get Sick Too!	Youth and Family	Y
	Critters Inc. Poultry 4-H Club – Exploring 4-H Poultry Projects	Youth and Family	Y

### Daily Schedule Locations

#### From Main Street:

E. 5th St.: AT-Antique Tractors and PFB Bldg.

E. 7th St.: AP-Ag Choice Tent

E. 9th St.: FF-Farm Family Learning Center

Beyond 1st St.: ED-Equipment Demo Ride and Drive

W. 8th St.: SC-Shaver's Creek Tent and Y-Youth Bldg.

W. 9th St.: F-Family Bldg. and Cooking Demonstration Theater

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

11th St.: P-Pasto Museum, RB-Red Barn Meeting Rooms (U/D), S-Special Events Bldg., and T-Tours

W. 13th: EB-Equine Exhibit Bldg., K-Kid's Climb, 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-Vegetable Garden Demonstration Area and Tent

### Key to Category Colors

Agriculture	Animals	Food & Health	Lawn & Garden	Natural Resources	Youth & Family
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# Thursday, August 15

Locations Abbreviation Key for Exhibits  
can be found on page 2 of this program

Start Time	Event Title	Focus	Location
9:00 a.m.	4-H Equine Quiz Bowl	Equine	RB
9:30 a.m.	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
	Foreign Animal Disease (FAD's) – A Real Risk...Not Just Initials	Animals	CT
10:00 a.m.	More Than One Way to Eat a Watermelon	Cooking and Food Safety	F
	Free Blood Pressure Readings	Healthy Lifestyle	HS
	Free Stroke Assessments	Healthy Lifestyle	HS
	Miniature Horse Demonstration	Equine	MH
	Beef Feedlot Tour, Why do we finish cattle on corn-based diets?	Livestock	T
	Build Your Own Pork Biosecurity Plan	Livestock	RB
	Vegetable Equipment Demo	Farm and Business	V
	Butterfly Tent – until close	Youth and Family	YG
	Soil Testing Made Easy	Home, Lawn and Garden	YG
	Century Farm Awards	Farm and Business	PDA
	Best Practices for Safe Grain Handling Demonstration	Ag Safety and Health	SD
	Soil Water Holding Capacity with Different Tillage Systems Demonstration	Energy and Water	CEA
	Watch-Out Situations for Non-Native Forest Plants	Forest Resources	CT
	Recruiting and Motivating Volunteers	Youth and Family	FF
10:30 a.m.	High Tunnel Tour	Home, Lawn and Garden	T
	Managing Equine Pastures and Dry lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T
	Hay Mowing and Tedders	Crops, Forage, Hays, and Soils	ED
11:00 a.m.	Industrial Hemp Updates	Crops, Forage, Hays, and Soils	CT
	Russell Larson Farms Tour	Farm and Business	T
	Historic Demonstration of the 1905 Panama O.K. Hay Press	Youth and Family	P
	Victory Garden Talk	Home, Lawn and Garden	YG
	Fast Fruit and Veggie Dips	Cooking and Food Safety	F
	Personal Protection Equipment Presentation	Healthy Lifestyle	HS
	Draft Horse Hitch	Equine	MH
	Forest Management Tour: Woods and Wildlife	Forest Resources	T
	Children's Story Time "Animal Tales"	Youth and Family	Y
Turtles of Pennsylvania	Animals	SC	
11:30 a.m.	Bear Hill Horse Logging	Equine	MH
	Multifunctional Stream Buffers and Native Grass Field Tour	Energy and Water	T
	Sorghum Chopping and High Speed Tillage	Crops, Forage, Hays, and Soils	ED
	Grafting Tomatoes	Home, Lawn and Garden	V
12:00 p.m.	Hops Research Presentation	Crops, Forage, Hays, and Soils	CT
	Best Practices for Safe Grain Handling Demonstration	Ag Safety and Health	SD
	More Than One Way to Eat a Watermelon	Cooking and Food Safety	F
	Amphibians of Pennsylvania	Animals	FF
12:30 p.m.	Habitat Management for Deer and Other Wildlife Tour	Wildlife	T
	Managing Equine Pastures and Dry lots	Equine	T
	Managing Livestock Pastures with Alternative Forages	Livestock	T

Start Time	Event Title	Focus	Location
1:00 p.m.	Personal Protection Equipment Presentation	Healthy Lifestyle	HS
	Defending Yourself Against Ticks and Vector Borne Disease	Healthy Lifestyle	FF
	Lameness Evaluation of the Horse	Equine	MH
	Hopyard Tour	Crops, Forage, Hays, and Soils	T
	Cover Crop Planting Green Demo	Crops, Forage, Hays, and Soils	ED
	Battling the Spotted Lanternfly – Updates	Farm and Business	CT
	Hemp Crops Grown in PA	Crops, Forage, Hays, and Soils	V
	Flower Arranging	Home, Lawn and Garden	YG
	Vegetable Equipment Demo	Farm and Business	V
	What's in your stream? Exploring the world of Macroinvertebrates	Animals	SC
1:30 p.m.	High Tunnel Tour	Home, Lawn and Garden	T
	Master Gardeners' Pollinator Gardens	Home, Lawn and Garden	CT
	Children's Story Time "Animal Tales"	Youth and Family	Y
	Restoration of the American Chestnut	Forest Resources	FF
2:00 p.m.	Bear Hill Horse Logging	Equine	MH
	Best Practices for Safe Grain Handling Demonstration	Ag Safety and Health	SD
	Hay Merging and Raking	Crops, Forage, Hays, and Soils	ED
	Beneficial Insects at the Pollinator Garden	Home, Lawn and Garden	CEA
	Forest Management Tour: Woods and Wildlife	Forest Resources	T
	Snakes of Pennsylvania	Animals	SC
2:30 p.m.	Hay Baling and Bale Handling	Crops, Forage, Hays, and Soils	ED
	The Benefits of Adding Cover Crops into the Rotation	Crops, Forage, Hays, and Soils	CEA

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**W. 9th-11th Streets:** V-Vegetable Garden Demonstration Area and Tent

## Key to Category Colors

Agriculture	Animals	Food & Health	Lawn & Garden	Natural Resources	Youth & Family
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## Ag Progress Days 2020 • August 18, 19, and 20

Visit Penn State's College of Agricultural Sciences on the web: [agsci.psu.edu](http://agsci.psu.edu)

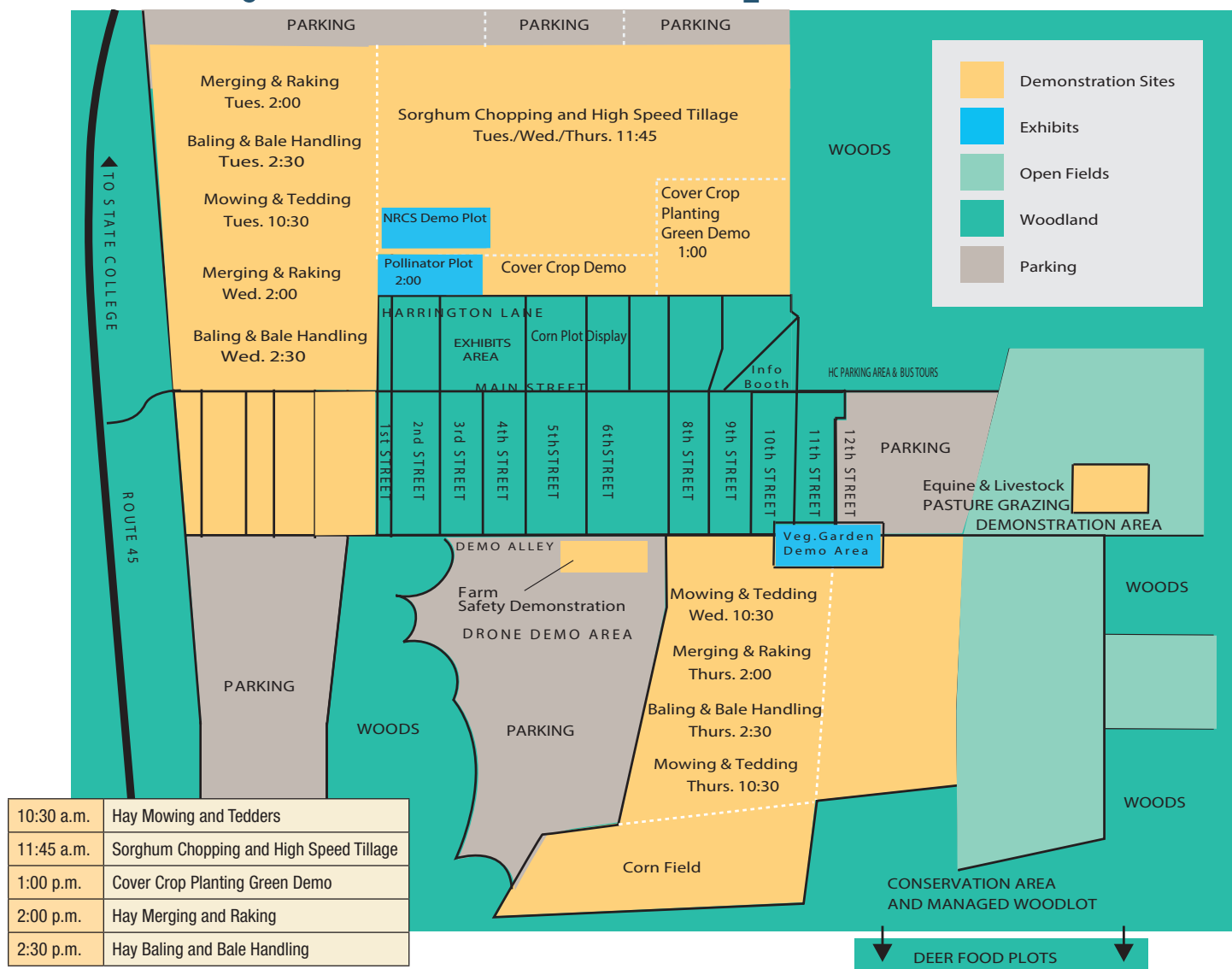
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This publication is available in alternative media on request.

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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 team highlight a safety topic important to the everyday lives of farm families. This year, learn about the hazards of flowing grain and confined space grain storages and the best practices to avoid and respond to entrapment risks. **Grain Handling Demonstrations** are scheduled for Tuesday and Thursday at 10:00 a.m., noon, and 2:00 p.m., on the site. **Agricultural Rescue Demonstrations** will be held Wednesday at 11:00 a.m. and 2:00 p.m. to show you how emergency responders approach an agricultural rescue incident.

## Vegetable Growers Equipment Demo

Showcasing equipment specifically for vegetable growers and a raised-bed demonstration area, buzzing with activities such as no-till cultivation, plastic bed rollers and laying, harvesting, and planting. **Daily**

**equipment demonstrations** will be held at 10:00 a.m. with additional times at 2:00 p.m. on Tuesday and Wednesday, and on Thursday at 1:00 p.m. **Grafting Tomatoes Talk** at 11:30 a.m. daily. The vegetable gardens and equipment are showcased on Demo Alley. Also visit with extension educators and growers to learn about **Growing Hemp Crops** at 1:00 p.m. daily.

## Cover Crop Plots and Pollinator Garden

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 in their company booths for answers to specific questions. **Pollinator Talks** are at 2:00 p.m. daily at the NRCS Demo Plot.

**Equipment Demonstrations**  
This year's new field demonstration will feature **Sorghum Chopping and High**

**Speed Tillage** at 11:45 a.m. daily. Several of the major equipment companies will have units in the field for producers to compare side by side.

## Drone Demonstrations

Watch drones in action and learn about their uses in agriculture with Penn State researchers at the Farm Safety Demo Area. **Commercial Multirotor Drone Operation** will be featured daily at 9:00 a.m. and on Tuesday and Wednesday at 3:00 p.m., in this designated area. On Wednesday, at 2:00 p.m. in the American National Farm Family Learning Center, a **Discussion on Safety and Operating Policy** will be held.

## Livestock Watering System

See an active demonstration of a solar-powered watering system for your pasture, and talk with Natural Resource and Conservation Services (NRCS) staff at the Conservation Exhibit Area beside the J. D. Harrington Bldg.

# At the Show

## If You Think You Know the College of Ag Sciences... Think Again

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. Visit the photo station to create your own Penn State memory.

### College Exhibits Building Main Street between West 9th and West 10th Streets

Visit with Penn State Extension teams from the following departments: Entomology, Plant Pathology and Environmental Microbiology, Food, Families, and Health Extension, Veterinary Science, Ag and Biological Engineering, and Ecosystems Science and Management to learn about new research and extension resources.

### American National United Farm Family Learning Center Main Street and East 9th Street below the Pasto Museum

Explore new alternative energy opportunities. Penn State Extension will offer their expertise at their Tuesday Seminars. Please stop by to find out more about **Biochar Opportunities** in the morning. In the afternoon, learn about **On Farm Energy Conservation and Assistance**. Other presentations scheduled in this facility include research updates on **Hops, Hemp, Invasive Species, Tree Molecular Genetics, Vector-Borne Disease, and Spotted Lanternfly**.

## Crops, Soils, Plants, and Energy Conservation

### Joseph D. Harrington Crops, Soils, and Conservation Building East 5th Street

Visit a variety of exhibits and demonstrations on how best to manage our natural resources and wildlife. Specialists from Penn State and other organizations will answer your crop production, weed identification, water quality, and biofuel questions. See the state's best hay samples in the hay show and visit the conservation and wildlife displays, the corn maze, and a display of innovative equipment for no-tillage production.

### Conservation Exhibit Area Harrington Lane will host several new demonstration plots:

- **Warm Season Grasses Exhibit**
- **No-Till Alliance Presentations** at 10:00 a.m. and 2:30 p.m. daily, see the schedule of events.

- **Natural Resources Conservation Service (NRCS)**  
Demonstrations supported by NRCS technical staff will focus on working farms. Featuring an **active livestock watering system** with ram and solar-powered pumps for grazing operations, a **scaled manure storage and concrete loafing area** to address animal concentration areas, and an **open soil pit exhibit** to show soil health and beneficial properties.
- **Beneficial Insects at the Pollinator Garden**  
Find out how to manage your farmland for a wide variety of beneficial insects that are the natural enemies of crop pests and weeds. Learn how to attract and retain helpful predators by providing some of the key resources they require to survive on your farm. Many of these practices benefit pollinators and other wildlife. Attend **Pollinator Talks** each day at 2:00 p.m.

## Family, Youth, and Health Activities

### The Family Building Main Street and West 8th Street

Visit the Family Room and experience interactive exhibits that focus on health and well-being. Healthy eating, physical activity, keeping food safe and understanding how to take care of ourselves are all part of both physical and mental good health. **Cooking Demonstrations** (see schedule) will introduce you to new recipes. Visit exhibits such as Naturally Flavored Water, LIFT, Understanding Alzheimer's Disease, Food Safety and Home Preservations, and Controlling Pests in your Home. Learn about the Master Health and Wellness Volunteer Opportunities.

### The 4-H Youth Building Main Street and West 8th

Children and youth can learn about the many interactive activities offered by 4-H clubs. Featuring hands-on activities, demonstrations, or presentations highlighting Animal Science Projects. Rabbits will be featured on Wednesday. Learn about chicken and duck 4-H activities. Explore with microscopes the diseases of plants and your dairy IQ! There is also a fun photo booth, 4-H store, games, and prizes for all youth visitors who participate. Also, "Animal Tales" Story Time!

**Kids' Climb**  
**Main Street, Relocated South East of Main Horse Arena, at the woods edge.**  
Kids can safely climb 40-foot-tall trees with ropes and a harness, just like real arborists! Staffed by the Penn State Landscape Contracting alumni and professional arborists.  
**NEW Schedule:**  
**Tuesday, 11:00 a.m. to 2:00 p.m.**  
**Wednesday, 11:00 a.m. to 6:00 p.m.**

### 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. See schedule for times.

### A-Maze-N Corn

#### 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.

### Exhibit of the Animal Diagnostic Lab and Animal Systems Extension

#### Dairy and Livestock Tent #1 (D) on W. 13th Street

Discover the teaching, research, and extension presence behind the Animal Science and Veterinary and Biomedical Science programs. Agricultural producers can learn about upcoming extension activities.

### Rural Health and Safety Tent

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

Free daily health screenings include stroke assessments and blood pressure readings, and hearing tests. Information on concussion awareness and assistive technology demonstration will be featured. **Personal Protection Equipment Presentations (11:00 a.m. daily, 1:00 p.m. on Tuesday and Thursday, and 2:00 p.m. on Wednesday).**

### 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.

### Yard and Garden Area

#### End of West 11th Street

Visit the Butterfly Tent, relocated here! Ask the Penn State Extension Master Gardeners for advice on your plant and pest problems. Gain tips from a **Flower Arranging Demonstration, Victory Garden and Growing Garlic Talks**. Don't forget to visit the potato tent growing various varieties and the pollinator plants in the garden. See the observation hive and learn the latest on **beehive equipment** from Penn State Extension and PA Beekeepers Association. To gain a deeper understanding of the honey bee's daily activities, join the walking tour.

*(continued on next page)*



## At the Show

(continued from page 21)

### The Equine Experience

#### The Equine Demonstrations

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 **carriage racing, six horse hitch, miniature horses, and horse logging** at the Main Horse Arena.

### Pasto Museum

#### Main Street

Visit the new exhibits inside the museum. Share in learning the history of the materials and methods to fashion tools. Our exhibits are always changing. And just outside the building, watch the **Panama O.K. horse-powered stationary hay press from 1905 operate at 1:30 p.m. Tuesday, and 11:00 a.m. Wednesday and Thursday.** Help support the museum by bidding on something special in our **Annual Silent Auction** on Tuesday and Wednesday, with more than 200 items available for bid or cash-and-carry purchase. Bids open on Tuesday at 9:00 a.m. and close promptly at 3:00 p.m. on Wednesday. Proceeds support "THIS! Is What AgSci Looks Like" outreach programs to advance understanding of agriculture. Stop by to see the latest publications from Penn State Press.

## 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):

Texas pork rib sandwich, brisket sandwich, beef and cheddar, hot dogs, pork barbeque, combo meals (cole slaw or baked beans), tossed salads, and lemonade

### Chief Logan Lions Club

(Main and West 8th): French fries

### Fairbrook United Methodist Church

(Main and East 7th):

*Breakfast:* sausage, home fries, scrambled eggs, pancakes, toast

*Lunch:* ham sandwiches, burgers, hot dogs, hot sausages, baked beans, applesauce, chips, ice cream, and apple dumplings

### Ferguson Township Lions Club

(Main and East 6th):

*Breakfast:* breakfast sandwiches, donuts

*Lunch:* hot dogs, sloppy joes, hot sausage, hot/cold ham & cheese sandwiches

### Penn Ag Industries Assoc.

(Demo Alley and West 6th):

*Breakfast:* breakfast sandwiches

*Lunch:* chicken tenders, chicken breast sandwich, fresh cut fries, sausage sandwich, hot dogs, and milkshakes.

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

*Breakfast:* Breakfast sandwiches and coffee

*Lunch:* tossed salad, chicken sandwich, pulled pork, hamburger, specialty burger, beef hot dogs, cheesesteak sandwich, french fries, garden salad, fruit cup, and Penn State Berkey Creamery ice cream

### Pa. Beekeeping Association

(Main and East 1st): honey ice cream and honey products

### Pa. Cattleman's Association

(Main and West 8th): prime rib sandwiches, cheesesteak hoagie, beef & cheddar sandwich, onion rings, cowboy beans, and coleslaw

### Pa. County Agents Association

(West 12th below equine area):

#### **Fried Mushrooms...are back!**

Pulled pork sandwiches, meatball subs, and snacks (chips, pretzels, candy, etc.)

### Pa. Dairy Princess and Promotions

(Main and East 8th): grilled cheese sandwiches, yogurts, and floats

### Pa. FFA Foundation

(Main and East 8th):

*Breakfast:* breakfast sandwiches and coffee

*Lunch:* cheese and pepperoni pizza, pulled pork sandwiches, sausage, hot dogs, cheesesteak sandwich, beans, applesauce, fruit cup, chips, and fresh squeezed lemonade

### Pa. Jr. Guernsey Breeders

(Main and East 7th): milkshakes

### Pa. Maple Producers

(Main and West 8th): maple cotton candy, syrup, sugar candy, sugar, coated nuts, sundaes, milkshakes, and maple lemonade. PA Maple products.

