

A Look at Pennsylvania Agriculture

Dear Boys and Girls,

We are grateful to our
Pennsylvania farmers and their
families for the food they provide
and the wholesome milk we drink.

We hope you enjoy playing the games and coloring the pictures in this booklet.

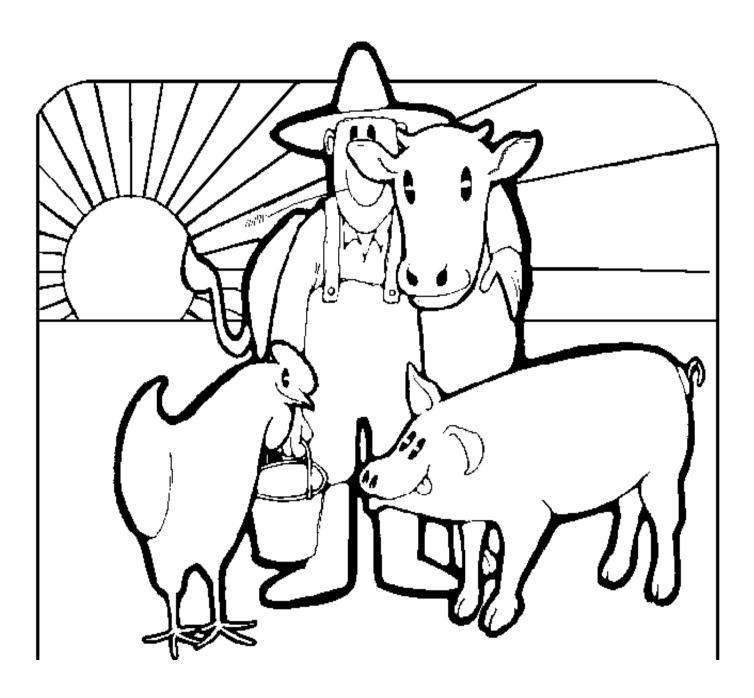


How can I get more of this Activity Book?

Due to budget limitations, multiple copies of this Activity Book are not available from our office. The book is NOT copyrighted and you are welcome to make copies as needed. It is also available from our website at www.nass.usda.gov/pa where you can print selected pages or the entire book.

Pennsylvania Agriculture

What do you think of when you hear the word "agriculture"?



The image of crops growing in a field or a barnyard full of animals may come to mind. But even if you don't live on a farm, agriculture is all around you. By playing the games and coloring the pictures in this book, you will learn about crops and animals here in Pennsylvania.

Farm Scramble

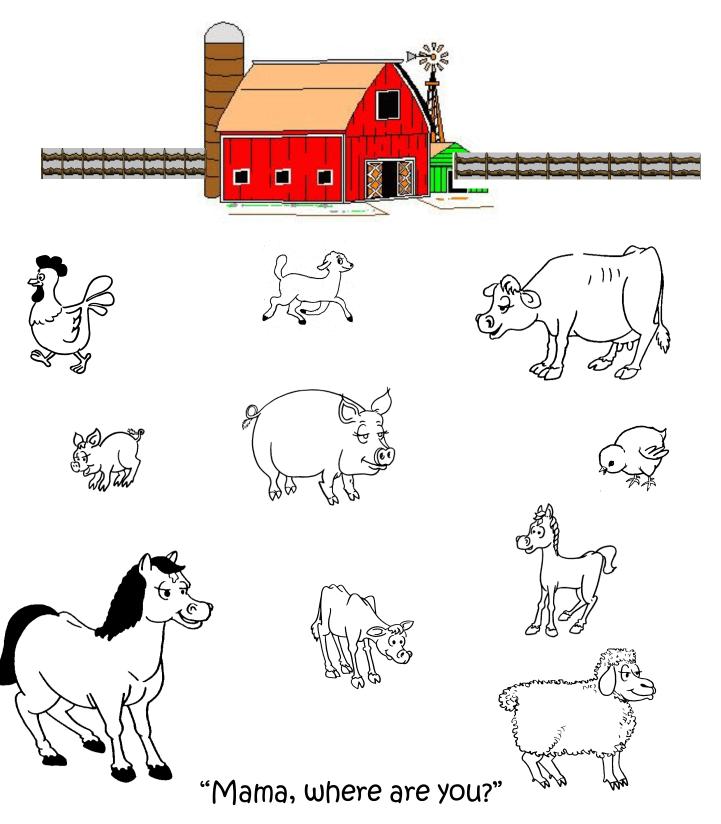


Hey Kids! Unscramble the words below to reveal a farm word.

The clues will help you!

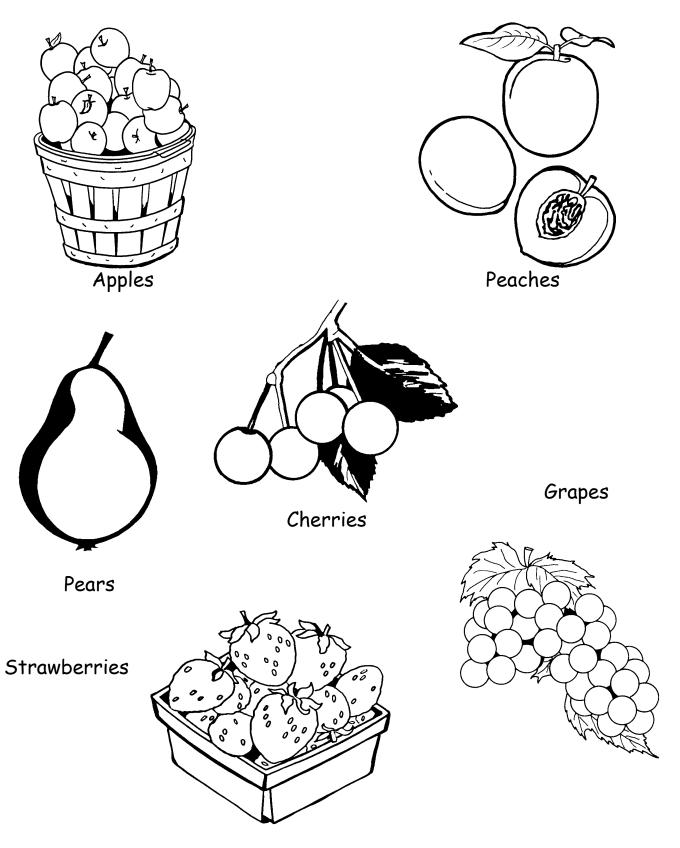
rpcso -	What's grown in the fields?	
anrb -	What do the animals sleep in?	
gisp -	Pink, round little things.	
encfe -	How do you keep the animals in the pasture?	
nyobsea -	Type of round bean.	
osreh -	What rhymes with course?	
amrfer -	Who takes care of the animals?	
actortr -	What do farmers ride that pulls a plow in fields?	
onrc -	Yellow things you eat (round, good with salt and butter).	
atewh -	Grain - rhymes with sheet.	

Barnyard Fun!



The babies are looking for their mothers! Help them out by drawing a line from each baby farm animal to its mother.

Color the fruits grown in Pennsylvania



MAKE A GRAPH!

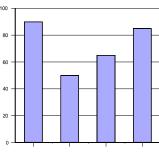
Pennsylvania: Harvested Acres for Selected Crops, 2021

(acres)

(43.33)			
200,000			
180,000			
160,000			
140,000			
120,000			
100,000			
80,000			
60,000			
40,000			
20,000			
	Winter wheat	Barley	Oats

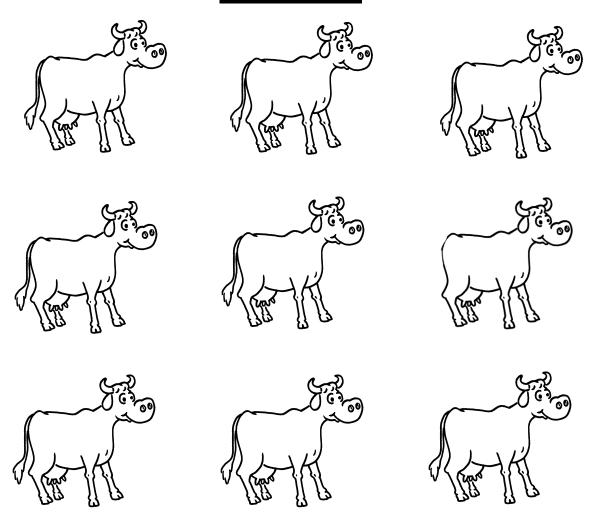
Make a Bar chart showing the acres of winter wheat, barley, and oats harvested in Pennsylvania. Color the winter wheat bar **red**, the barley bar **blue**, and the oats bar **green**.

There were 195,000 acres of winter wheat, 28,000 acres of barley, and 36,000 acres of oats harvested in Pennsylvania in 2021.



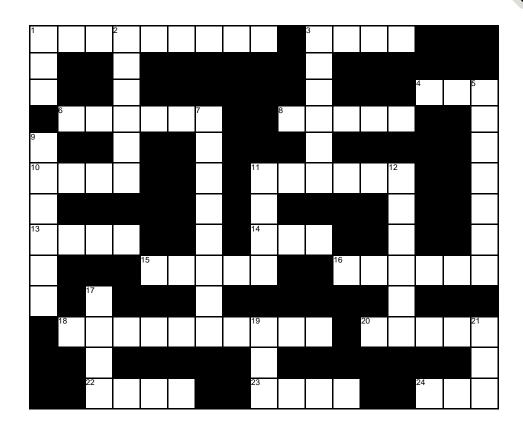
GOT MILK?

Which milk cow is different?



Pennsylvania dairy farms produce over 1.2 billion gallons of milk every year. It takes 10-20 minutes to milk a cow. Most cows are milked twice a day. When milk leaves the cow, it is 101 degrees. It quickly is cooled to 40 degrees. On an average, most milk is sold at retail within 50 to 100 miles from the farm it was produced.

RICULTURAL CROSSWORD PUZZLE

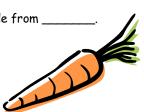


ACROSS

- 1. Oleo _____ comes from corn and soybeans.
- 3. A baby cow or bull.
- 4. Where milk comes from.
- 6. Red fruit that grows on trees.
- 8. A freshwater fish in the salmon family.
- 10. A small grain popular for its use in cereal.
- 11. Cows and bulls on a farm or ranch.
- 13. 43,560 square feet.
- 14. _____ bread.
- 15. A single small hard seed.
- 16. A cow that has not had a calf yet.
- 18. A product used with pancakes, waffles, etc. (2 words)
- 20. Baked_
- 22. A male cattle.
- 23. A female horse.
- 24. A spout that is inserted into a maple tree.

DOWN

- 1. The sound a cow makes.
- A purple or green fruit that grows on a vine in clusters.
- 3. Bugs Bunny's favorite food.
- 5. Rain, snow, sunshine, sleet, etc.
- 7. A legume whose seeds are used to make oil, flour and meal.
- 9. A spud.
- 11. _____ on the cob.
- 12. Horse
- 17. Mary had a little _____
- 19. Ewe's mate.
- 21. Maple syrup is made from _





Pennsylvania

farmers grow many fruits and vegetables.

Draw a line from the word to the picture of the fruit or vegetable.



TOMATO

STRAWBERRIES



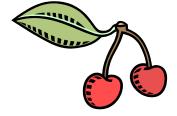
SNAP BEANS





APPLE

PUMPKIN



GRAPES

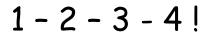


CHERRIES



SWEET CORN

Taking a Survey

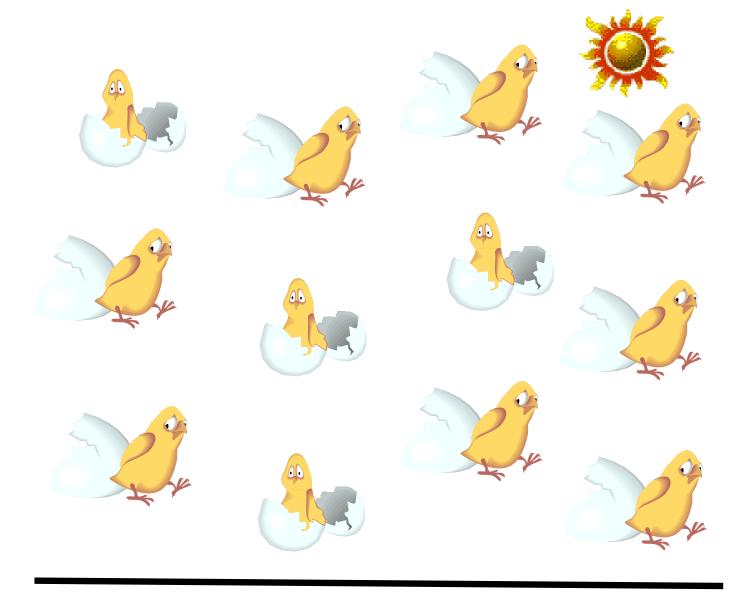


You are counting. A SURVEY is a count. The Northeastern Regional Field Office of USDA's National Agricultural Statistics Service counts livestock (cows, pigs, sheep, chickens) and crops (corn, oats, wheat, hay, soybeans, potatoes, fruits, vegetables).

We need counts of livestock and crops. A survey answers big questions!

Can you count the animals and crops on the map of Pennsylvania?

<u>Livestock</u>	<u>Crops</u>	244
How many cows do you see?	 How many apples do you see?	
How many chickens do you see?	 How many peaches do you see?	
How many pigs do you see?	 How many ears of corn do you see?	
How many sheep do you see?	 How many mushrooms do you see?	



Count the Chicks



How many chicks <u>are</u> hatching from their eggs?

How many chicks <u>have</u> hatched from their eggs?





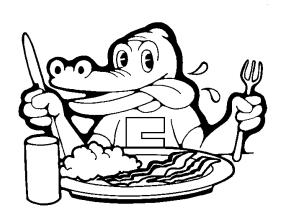


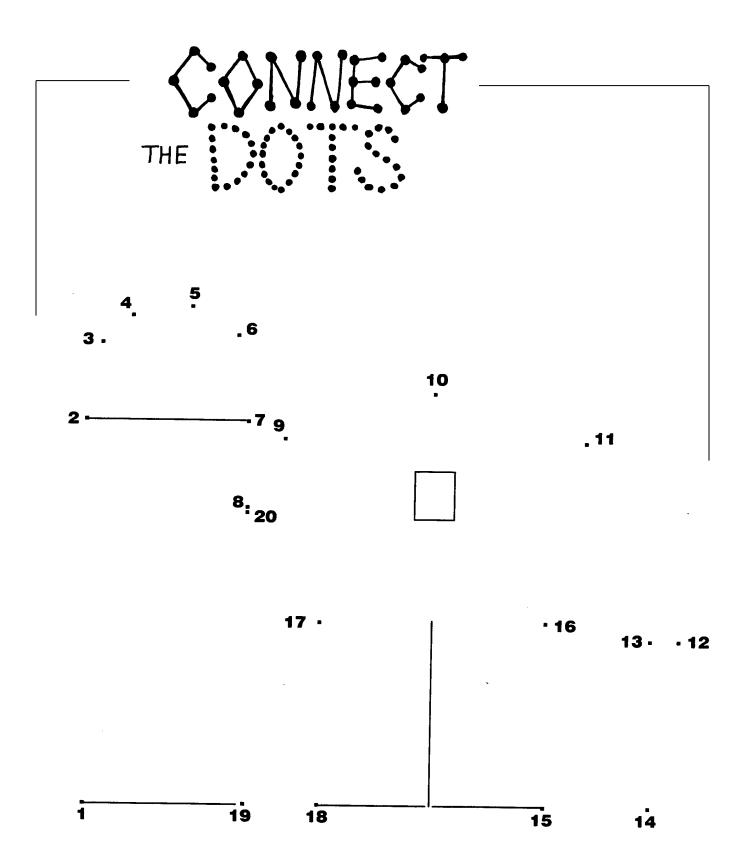
Match the products in Column 1 with the animal or crop they came from in Column 2. The items in Column 2 may be used more than once.

<u>Col</u>	<u>umn 1</u>	
1.	bacon	
2.	milk	
3.	spaghetti sauce	
4.	egg	
5.	corn meal	
6.	peanut butter	
7.	pork chops	
8.	flour	
9.	beef	
10.	cider	
11.	wool sweaters	
12.	french fries	
13.	jelly	
14.	McNuggets	
15.	ketchup	
16.	noodles	
17.	hamburger	
18.	tater tots	
19.	drumstick	
20.	chips	

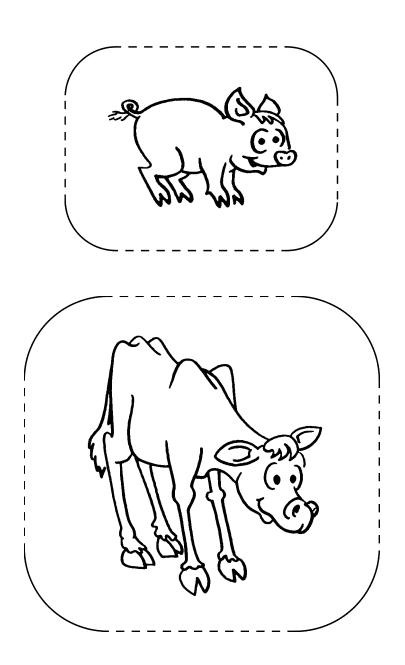
Column 2

- a. chicken
- b. cow
- c. pig
- d. corn
- e. apples
- f. wheat
- g. grapes
- h. potatoes
- sheep
- peanuts
- k. tomatoes





Color the drawings, then ask a grownup to help you cut them out along the dotted lines. Glue a popsicle stick to the back, and you can make your own farmland adventures!



ITS FEEDING TIME

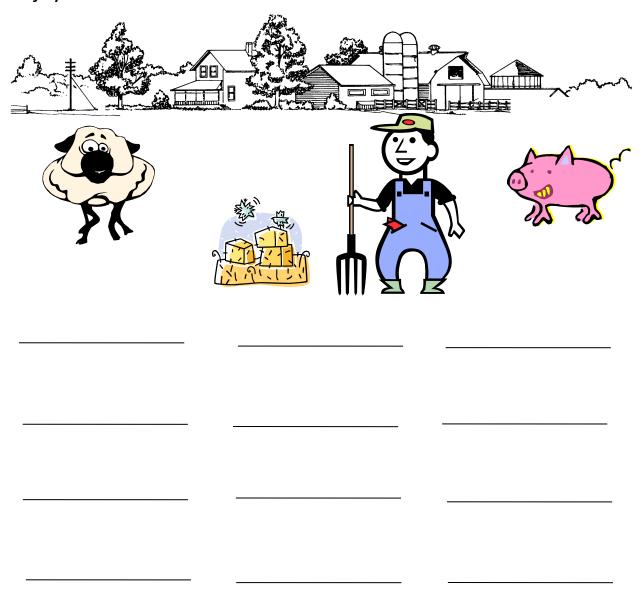
A Pennsylvania milk cow drinks about a bathtub full of water, eats about 40 pounds of feed and a bale of hay every day! A single milk cow gives nearly 200,000 glasses of milk in her lifetime.

Help the cow find her way to the barn!!

How many words can you make from the letters in the word:

AGRICULTURE

The term 'agriculture' refers to the science or art of cultivating the soil, producing crops, and raising livestock for our use and enjoyment.





Computer Koool!

٧	K	W	Ν	٧	I	Н	S	0	Т	Ν	I	C	Α	M
0	R	Α	В	С	F	U	R	Р	5	У	Р	5	5	0
5	0	Ε	J	0	U	Т	Р	U	Т	X	0	0	W	Т
Р	W	F	U	M	0	U	5	Ε	M	W	F	0	M	Н
Т	Т	L	5	Р	I	0	W	Α	Q	Τ	K	Α	0	Е
Q	Е	0	Z	U	X	Е	R	Τ	W	M	0	Τ	U	R
I	Ν	Р	U	Т	Α	G	5	Α	X	У	Α	5	5	В
Ε	Α	Р	Α	Ε	0	Τ	R	Ε	R	Р	U	Ν	Ε	0
X	У	У	У	R	Т	Е	U	0	Α	0	Ν	I	Р	Α
M	0	R	Р	Α	С	Ν	Е	X	У	Р	R	I	Α	R
K	Е	У	В	0	Α	R	D	I	I	Α	Ε	5	D	D
L	I	M	Р	0	Ν	Е	0	U	0	0	D	Е	5	В
5	Е	Р	R	I	Ν	Τ	I	Ν	G	У	L	Ν	U	5
Т	J	Р	I	0	Q	Ν	Е	Р	Z	X	0	W	M	U
Е	R	5	Ν	0	С	I	Ν	Т	Е	R	F	Α	С	Е

Statisticians use computers every day in their work.

Can you find the following words in the word find puzzle above?

Circle each word that you are able to find.

Words may be found forward and backward (horizontally, vertically, and diagonally).

COMPUTER	SOFTWARE	INTERNET	FLOPPY
PROGRAM	OUTPUT	PRINTING	NETWORK
INPUT	KEYBOARD	MOTHERBOARD	INTERFACE
MACINTOSH	MOUSE	MOUSEPAD	ICON ~
FOLDER			کم



What **Pennsylvania** products are hidden in these words?









3. LIMK

4. MNUKPSIP

6. KCCESHNI

2. CEI RAMCE









7. TUERBT















11. SHAMTCSIR STERE_____







15. **NOESSBYA**







"Hi Kids, I'm Stanley Statistician. My friends call me 'Stan Stat' for short.



I work at the United

States Department of Agriculture (USDA) as a statistician for the National Agricultural Statistics Service (NASS)."

What is a Statistician anyway?



- ★ Statisticians collect and interpret information.
- ★ They use math and statistics to analyze the data.

"Do you like math?"

Farmers Markets



Hey Kids, have you ever been to a farmers market?

The market gives the farmer a chance to sell his produce and for buyers to get great fresh foods. Farmers markets are held outdoors during the summer and early fall months.

Can you unscran	nble the	type:	s of go	o <u>dies</u>	that ca	an be	bough	t at a f	farmer	s' mai	rket?
smleno:	m		I		n	S					
ronc:		0		n							
stoatmoe:	t		m		t	0		s			
bucesmucr:		u		u	m		е		s		
stanpl:		I			t	s					
peapl redci:		р		I			С		d	е	
shuaqs:	s	q		а		h					
mupinpks:	р		m	p		i		s			
verpseers:	р	r		s	е		V				
pseache:	р	е		С	h		s				
epalm rspuy:		а	р		е			у	r		р



KIDS JOKES

Q: What's a cow's favorite vegetable?

A: A cowat!

Q: Why does a rooster watch TV?

A: For hentertainment!

Q: What did the farmer call the cow that would not give him any milk?

A: An udder failure!

Q: Why did the unwashed chicken cross the road twice?

A: Because he was a dirty double crosser!

Q: What do you call the story of The Three Little Pigs?

A: A pigtail!

Q: What do you call a pig thief?

A: A hamburglar!

Q: Why do cows like being told jokes?

A: Because they like being amoosed!

Q: What are the spots on black and white cows?

A: Holstains!

Q: What do you call a chicken in a shell suit?

A: An egg!



Q: How do you take a pig to the hospital?

A: By hambulance!

Q: Why did the baby turkey bolt down his food?

A: Because he was a little gobbler!

Q: Why did the rooster cross the road?

A: To cockadoodle dooo something!

Q: What did the well mannered sheep say to his friend at the field gate?

A: After ewe!

Q: What game do cows play at parties?

A: Moosical chairs!

Q: What do you get if you cross a chicken with a cement mixer?

A: A brick-layer!

Q: How did the farmer find his lost cow?

A: He tractor down!

Q: What do you give a pony with a cold?

A: Cough Stirrup!

Q: Why did the farmer call his pig 'lnk'?

A: Because he kept running out of the pen!

Q: How do chickens dance?

A: Chick to chick!

Q: Why did the chicken cross the playground?

A: To get to the other slide!



PENNSYLVANIA FARM QUIZ



- 1. What is **Pennsylvania's** leading agricultural product?
 - a. Apples
 - b. Potatoes
 - c. Milk
 - d. Vegetables
- 2. What is the top county in **Pennsylvania** for all agricultural sales?
 - a. Chester
 - b. Lancaster
 - c. York
 - d. Berks
- 3. **Pennsylvania** ranks ______ in the nation in mushroom production.
 - a. 1st
 - b. 2nd
 - c. 5th
 - d. 10th
- 4. Pumpkins are used for cooking and jack-o-lanterns. They are planted on approximately _____ acres in **Pennsylvania**.
 - a. 700
 - b. 90
 - c. 8,200
 - d. 7,300
- 5. Farms account for about ______ percent of all land in the state?
 - a. 5
 - b. 15
 - c. 25
 - d. 40



6.	There are almost		farms in Pennsylvania .
	a.	. 100,000	
	b.	. 8,000	
	C.	53,000	
	d.	. 40	
7.			s corn harvested for silage. The entire plant is chopped
	and stored in silos		n silage is then used
	b.	_ ·	
		to use as bedding in the	harn
		to feed the family	
8.			ed over 10.1 billion pounds of milk in 2021, placing
	Pennsylvania _	Ord	in the nation.
		. 3 rd	
		. 8 th	
		1st	
	a.	. 10 th	
9.	Pennsylvania ra	anks 2 nd nationally in the nu	mber of slaughter plants with almost
0.	-	·	
		. 75	
		. 525	
		. 6 . 190	
	u.	. 190	
10.	Floriculture sales nationally.	in Pennsylvania are valu	ed at over \$188 million, ranking Pennsylvania
		. 2 nd	
		. 3 rd	
		8 th	
		. 10 th	
11.	The value of trout	sold in Pennsylvania ros in the nation.	e by 17% in 2021 to \$7.13 million, ranking the state
	a.		
	b.	:	
	C.	15 th	
	d.	. 3 rd	
12.			mules. According to a 2017 study by the American
			horses in Pennsylvania, making
		n the nation for number of h	lorses.
		95,000	
		220,000	
		10,000 300,000	
40		·	
13.	Horses like to eat a.	* th.	nationally in oat production.
	a. b.		
		3 rd	
		. 8 th	

14.	What Pennsylvania county pro- a. Franklin b. Bradford c. Berks d. Lancaster	duces the most milk?
15.		nake 1 gallon of ice cream and 21.2 pounds of whole milk to make a a ranks in both butter production and hard ice cream.
16.	Pennsylvania ranks a. 1 st b. 2 nd c. 4 th d. 7 th	in the nation in apple production and 4 th in peach production
17.	What county in Pennsylvania a. Lancaster b. Adams c. York d. Franklin 	usually produces the most apples and peaches?
18.	Pennsylvania ranks a. 6 th b. 3 rd c. 7 th d. 9 th	among all states in the number of milk cows.
19.	Pennsylvania ranks 3 rd in the What state ranks #1? a. Florida b. Texas c. Georgia d. California	nation in the value of fruits and vegetables sold at farmers markets.
20.	What county in Pennsylvania a. Lancaster b. Adams c. York d. Chester 	leads in sales of agricultural products to farmers markets?

How did you do?

(answers on Page 35)



Trivia Quiz



Test your knowledge of Agriculture Trivia.

Can you pick the right answer out of the choices given?

Color in a circle to make your choice for each question.

1.	Which is the correct term to describe a group of geese in the air? gaggle skein herd	5.	Which vegetable is a member of the daisy family? tomato lettuce cucumber
2.	How many flowers must a bee collect nectar from in order to make one tablespoonful of honey? O 60 flowers O 500 flowers O 2,000 flowers	 7. 	What is a female pig who has produced offspring called? piglet sow boar Which state in the USA is the leading producer of mushrooms?
3.	What is the longest recorded flight time of a chicken? 13 seconds 1 second 30 seconds	8.	California Pennsylvania Florida The average garden variety caterpillar has this number of
4.	Who invented the cotton gin? O Eli Whitney O Thomas Edison O John Deere		muscles in its head.



Don't "grain" on my parade!

Can you find these words?

STRAW, BARLEY, CORN, OATS, MILL, ELEVATOR, GRAIN, BREAD, BRAN, WHEAT, SILO, FLAX, SOYBEAN, SUNFLOWER, RYE, HULL, FLOUR

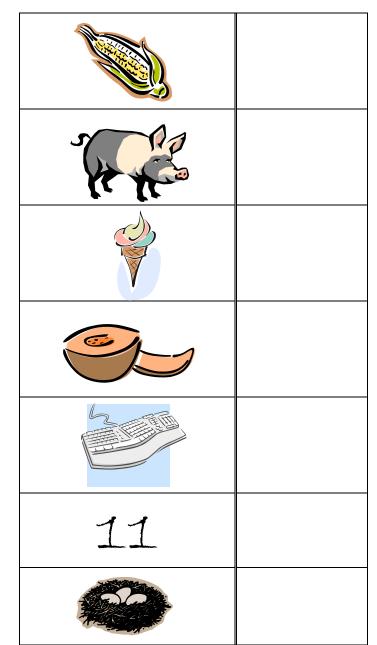
5	Α	M	5	T	R	Α	W	5	L	Α	Н	В
С	I	0	L	В	D	В	Р	U	X	У	U	Α
5	0	L	Р	G	M	V	С	Ν	R	0	L	R
0	U	Α	0	G	5	I	0	F	Н	У	L	L
У	R	R	T	R	Τ	С	R	L	Ε	Κ	Ε	Ε
В	G	G	Ν	5	M	Н	Ν	0	Α	0	G	У
Ε	F	L	Α	X	5	Α	Ε	W	Т	I	U	0
Α	M	I	G	L	W	F	K	Ε	Α	В	Ε	В
N	I	F	R	I	Ε	F	Τ	R	Ε	R	L	R
Ε	L	F	L	0	U	R	R	Р	Н	Ε	J	Α
L	L	I	5	U	Ν	F	L	0	W	Α	R	Ν
L	В	С	R	В	G	R	Α	I	Ν	D	M	Ε
Е	L	Ε	V	Α	Τ	0	R	В	R	Е	Т	D

First Letter Game

Who lays eggs on a farm?

Write the beginning letter of each picture to find the answer!











Chickens that lay eggs are called hens.

A hen lays an average of 267 eggs each year!



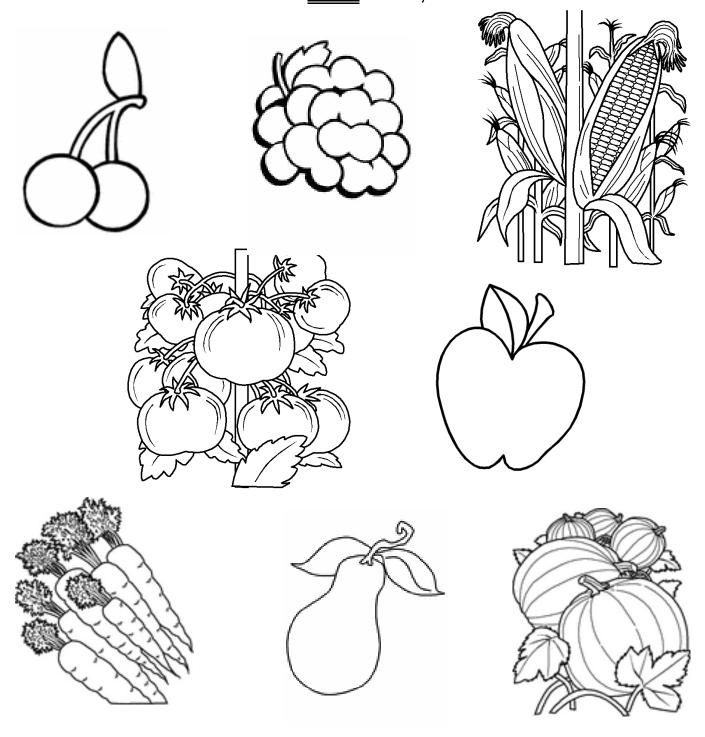
Circle or Square!



Can you draw a circle around the fruits?

Now, draw a square around the vegetables.

You can <u>color</u> them, too!



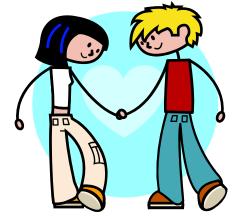
Did ya know?

Pennsylvania produces more mushrooms than any other state. Each year, the state's farmers grow almost 447 million pounds!



And did you know that Pennsylvania is known as the Snack Food Capital of the world? We are home to major producers of pretzels, potato chips, candies and chocolate.











Boys and girls, did you know that it takes 10 pounds of milk to make 1 pound of cheese? That's about 4.65 quarts of milk!

Thomas Jefferson was the first "Big Cheese." The phrase was coined when a cheese maker gave a 1,235-pound cheese wheel to President Jefferson in 1801. Passers-by were amazed by the spectacle and dubbed it "the big cheese."

The most popular American natural cheese is cheddar. The most popular Italian natural cheese sold in the U.S. is mozzarella. Pennsylvania ranks 4^{th} in mozzarella cheese production, 5^{th} in Italian cheese production, and 7^{th} in total cheese production.

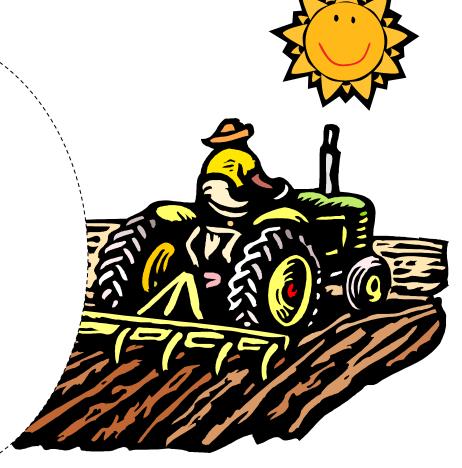
How many different cheeses can you name?											

A <u>CROP</u> is any product such as a grain, fruit or vegetable. After a <u>CROP</u> is grown, it is either exported or distributed in the United States.

is

Total cropland in the United States is almost 397 million acres.

Can you draw a picture of a crop a Pennsylvania farmer might grow?



My Pennsylvania crop is

Homemade Butter

Ingredient: 1 pint heavy cream

1) Fill airtight containers approximately half full with heavy cream.

- 2) Securely cover containers.
- 3) Shake, shake, shake!!!!

 Keep shaking until the cream turns in to butter.

Get a nice fresh slice of bread and spread your homemade butter onto it!



Does it taste different than the kind you buy from the store?

Food scientists have identified over 120 flavor compounds in butter which contribute to its unique flavor. No one has been able to duplicate these flavors.

Enjoy!

◄ Answer Key ►

Farm Scramble



crops barn pigs fence soybean horse farmer tractor corn wheat

Taking a Survey

Livestock

Number of cows 3 Number of chickens 3 Number of pigs 2 Number of sheep 1

Crops

Number of apples 5 Number of peaches 2 Number of ears of corn 3 Number of mushrooms 3

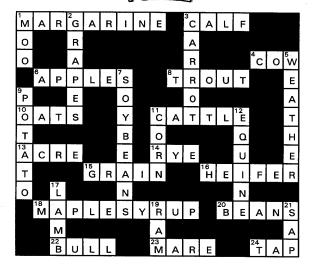
GOT MILK?



Count the Chicks

Chicks hatching 4 Chicks not hatching 8

AGRICULTURAZ GROSSWORD PUZZLIE

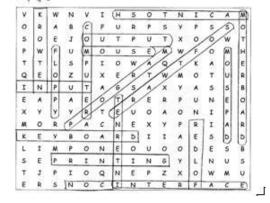


MATTINE

1. c 2. b 4. a 8. f 9. b 10. e 11. i 12. h 13. g 14. a 15. k 16. f 17. b 18. h 19. a 20. h

■ Answer Key, Continued ▶

Computer tooo!



FARMERS' MARKETS

melons corn tomaotes cucumbers plants apple cider squash pumpkins preserves peaches maple syrup



Word Game

- 1. apples
- 2. ice cream
- 3. milk
- 4. pumpkins
- 5. corn
- 6. chickens
- 7. butter
- 8. peaches
- 9. flowers
- 10. pigs
- 11. Christmas trees
- 12. eggs
- 13. mushrooms
- 14. trout
- 15. soybeans

PENNSYLVANIA FARM QUIZ

- 1. C
- 11. D
- 2. B
- 12. B
- 3. A
- 13. B 14. D
- 4. D
- 15. B
- 5. C 6. C
- 16. C
- 7. B
- 17. B
- 8. B
- 9. D
- 18. A 19. D
- 10. C
- 20. A

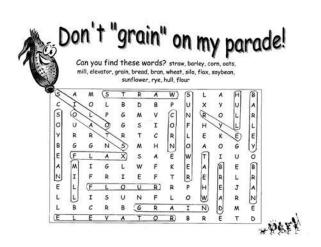


- 1. skein
- 2. 2,000
- 3. 13 seconds
- 4. Eli Whitney
- 5. lettuce
- 6. sow
- 7. Pennsylvania
- 8. 248

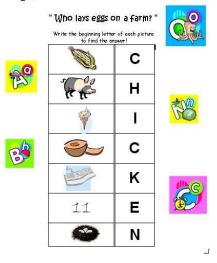


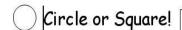
Row	1	-	14	40	94	168
Row	2	-	412	2,049	11	7
Row	3	-	23	29	373	0
Row	4	_	36	90	125	4,680

■ Answer Key, Continued ▶



First Letter Game





Can you draw a Circle around the fruits? Now, draw a square around the Vegetables.

4 fruits- - cherries, grapes, apple, pear 4 vegetables – corn, tomatoes, carrots, pumpkins



American, cheddar, mozzarella, swiss, cottage, ricotta, provolone, muenster, brick, limburger, blue, cream, ricotta, romano, parmesan, havarti, gouda, brie, colby, farmer, string, nacho and more!



United States Department of Agriculture National Agricultural Statistics Service

The NASS Mission is to provide timely, accurate and useful statistics in service to U.S. agriculture.

NASS conducts hundreds of surveys every year, and we prepare reports covering virtually every aspect of U.S. agriculture. Production and supplies of food and fiber, prices paid and received by farmers, farm labor and wages, farm finances, chemical use, and changes in the demographics of U.S. producers are only a few examples.

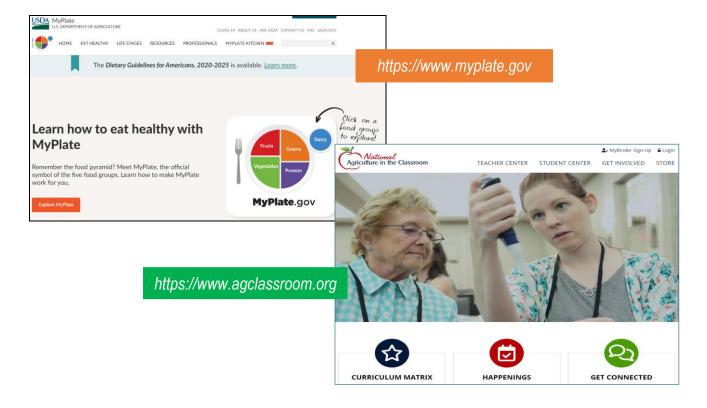
Our commitment to data confidentiality and security

NASS is very serious about its responsibility for the security and confidentiality of its data and has not had a data breach since before the Crop Reporting Board was established in 1905. With rapidly changing technologies, we conduct ongoing reviews of our processes to improve the security of our data. We are focused on establishing ongoing internal and external controls to assure continuous improvement and confidence in our procedures and technology into the future.

As required by Federal law, survey and census responses are completely confidential. We safeguard the privacy of all respondents, ensuring that no individual operation or producer can be identified. No identifying information will be shared with any other agency or entity for any reason.

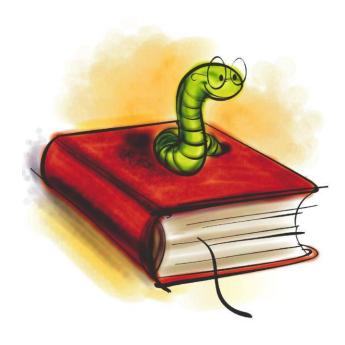
Pennsylvania Agriculture is all around you. Everything you eat comes from agriculture. Agriculture is the production of food and fiber and it is caring for the land, air and water that we all enjoy so much! The seafood, meat and vegetables that you eat are all part of the agricultural world.

This activity booklet will help you better understand agriculture and just how important it is to us!



We are grateful to the Pennsylvania farmers and their families for completing our surveys throughout the year. This is how we gather our data about agriculture.

A lot of people and agencies learn from this data, like - - -



- the farmers themselves
- magazines, newspapers, radio
- farm businesses
- farm associations
- banks and lenders
- schools and universities
- farm cooperatives
- government agencies
- legislatures

We hope you have become more aware of agriculture in Pennsylvania and learned how important it is to the people who work hard to produce our food.