Virginia Agriculture counts!

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State Statistician, Herman Ellison

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This activity book meets the following Standards of Learning:

Science
3.1, 3.10, 3.11, 4.1, 4.8, 5.1

History and Social Science

English
3.4, 3.6, 3.7, 4.3, 4.5, 4.6, 5.4, 5.6, 5.7

Math
3.8, 3.9, 3.21, 3.25, 4.6, 4.7, 4.8, 4.9, 4.20, 4.22, 5.3, 5.18, 5.22
Virginia Agriculture is always being counted, measured, priced, analyzed, and reported to give people the facts they need. Completing the activities in this book will help you understand just how much Agriculture Counts!
It All Started with a Letter

In 1791 President George Washington received a letter from an Englishman named Arthur Young. Mr. Young had written to several farmers requesting information on land values, crops, yields, livestock prices, and taxes with no luck. By personally conducting a mail survey and compiling the results, President Washington was able to gather enough information to answer all of Mr. Young’s questions about American Agriculture. George Washington, in effect, had just conducted the Nation’s first agricultural survey.
Today, the National Agricultural Statistics Service (NASS) has the responsibility of collecting data for agricultural surveys. NASS has offices in 46 states throughout the United States. NASS also has an international program office that helps other countries with their planning and reporting of agricultural statistics.

Below is a list of countries NASS has worked with. Draw a line to match the name of the continent or region with the correct map.

### Africa
- Armenia, Bangladesh, China, India, Indonesia, Kazakhstan, Nepal, Pakistan, Philippines, Saudi Arabia, Taiwan, Thailand, Turkey, Vietnam, Yemen

### Central America
- Cameroon, Egypt, Ethiopia, Kenya, Liberia, Morocco, Rwanda, Sierra Leone, South Africa, Sudan, Tunisia, Uganda, Zaire, Zimbabwe

### South America
- Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua

### Asia
- Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Peru, Venezuela

### Caribbean
- Albania, Bulgaria, Hungary, Poland, Romania, Russia, Ukraine

### Europe
- Dominican Republic, Haiti, Jamaica,
The USDA/NASS/VA Field Office collects data for Virginia Agriculture. Below is a list of Virginia’s top cash commodities. List them in order from highest to lowest.

**Top Cash Commodities**

1. ________________
2. ________________
3. ________________
4. ________________
5. ________________
6. ________________
7. ________________
8. ________________
9. ________________
10. ________________
11. ________________
12. ________________

-Million Dollars-

- Hogs .......................... $70
- Cotton .......................... $43
- Corn for Grain ................ $86
- Fresh Market Tomatoes .... $99
- Broilers .......................... $506
- Cattle and Calves .............. $426
- Milk .......................... $266
- Turkeys .......................... $261
- Soybeans .......................... $87
- Tobacco .......................... $72
- Hay .......................... $44
- Eggs .......................... $67

*Math 2.2, 3.3, 4.1*
The First shipments of Virginia-grown tobacco reached England in 1614. This began tobacco as a chief export of the American colonies. The ports in Hampton Road are the largest tobacco exporters in the United States. Tobacco is from the Solanaceous (sōlˈə-nə-shəs) family and is related to garden vegetables such as potatoes, tomatoes, and eggplant. Because of its excellent quality, Flue-cured tobacco is produced in many nations around the world including Australia, Canada, Africa, South America, and parts of Asia. Today, tobacco is still Virginia’s largest cash crop and number 1 export.

True or False:

Flue-cured tobacco is only produced in America. _____

Tobacco is a member of the Solanaceae family, which also includes tomatoes, potatoes and peppers. _____

The ports of Hampton Roads are the largest in the United States for exporting tobacco and tobacco products. _____
Add the numbers below to find out how many harvested acres of corn for grain was harvested in Virginia.

harvested acres

100,000
100,000
60,000
45,000
Below are the top three States in the nation for production of tomatoes. Can you identify these States?

1. 25 million crates
2. 18 Million crates
3. 3 million crates

1. 22 million crates
2. 19 Million crates
3. 4 million crates
Broilers are Virginia’s #1 cash commodity. Cattle and calves are Virginia’s #2 cash commodity.
Below are Virginia’s top 4 cash commodities. Make a bar chart using the following data about each.

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle</td>
<td>$426</td>
</tr>
<tr>
<td>Milk</td>
<td>$266</td>
</tr>
<tr>
<td>Broilers</td>
<td>$506</td>
</tr>
<tr>
<td>Turkeys</td>
<td>$261</td>
</tr>
</tbody>
</table>

Top Four Cash Commodities

Million Dollars

Broilers | Cattle | Milk | Turkeys
Let's Conduct A Survey! Fill out the survey form below for each farm. When you complete the survey, use the data to fill in the press release!

<table>
<thead>
<tr>
<th>KEY:</th>
<th>Pig</th>
<th>horse</th>
<th>cow</th>
<th>chicken</th>
<th>apple tree</th>
<th>corn for grain</th>
<th>wheat</th>
<th>hay bale</th>
</tr>
</thead>
</table>

### 2015 Survey Form

<table>
<thead>
<tr>
<th></th>
<th>Farmer Adams</th>
<th>Farmer Bell</th>
<th>Farmer Callahan</th>
<th>Farmer Douglas</th>
<th>2015 Total</th>
<th>2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Horses</td>
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<td></td>
<td></td>
<td>18</td>
<td></td>
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<tr>
<td>Cows</td>
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<td>12</td>
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<td>Chickens</td>
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<td>Total Livestock</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Farmer Adams</th>
<th>Farmer Bell</th>
<th>Farmer Callahan</th>
<th>Farmer Douglas</th>
<th>2015 Total</th>
<th>2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple Trees</td>
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<td></td>
<td></td>
<td>5</td>
<td></td>
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<td>Corn For Grain</td>
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<td>6</td>
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<tr>
<td>Wheat</td>
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<td>17</td>
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<td>Hay Bales</td>
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<td></td>
<td>Total Crops</td>
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</tr>
</tbody>
</table>
CROPS AND LIVESTOCK PRESS RELEASE

DATE: ___________________________ RELEASE NUMBER: ___________________________

Virginia Livestock Up/Down _____ Head in 2015

Virginia has _____ pigs, _____ horses, _____ cows, and _____ chickens. The total livestock for Virginia in 2015 was _______. __________ showed the most increase with more head than 2014. ______________ showed the most decrease with ____ less head than 2014.

Virginia Crops Up/Down _____ Acres in 2015

Virginia had _______ acres of apple trees, _______ acres of corn for grain, _______ acres of wheat, and _______ bales of hay in 2015. Total crop acreage in 2015 was _______ acres. __________ showed the most increase with _______ more acres than 2014. __________ showed the most decrease with _______ less acres than 2014.

Agriculture Counts!  Agriculture Counts!  Agriculture Counts!  Agriculture Counts!
Match the words in column 1 with the animal or crop they came from in column 2. (Column 2 words can be used more than once.)

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. bacon</td>
<td>a. chicken</td>
</tr>
<tr>
<td>2. milk</td>
<td>b. cow</td>
</tr>
<tr>
<td>3. spaghetti sauce</td>
<td>c. pig</td>
</tr>
<tr>
<td>4. egg</td>
<td>d. corn</td>
</tr>
<tr>
<td>5. corn meal</td>
<td>e. apples</td>
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<tr>
<td>6. peanut butter</td>
<td>f. wheat</td>
</tr>
<tr>
<td>7. pork chops</td>
<td>g. grapes</td>
</tr>
<tr>
<td>8. flour</td>
<td>h. potatoes</td>
</tr>
<tr>
<td>9. beef</td>
<td>i. sheep</td>
</tr>
<tr>
<td>10. cider</td>
<td>j. peanuts</td>
</tr>
<tr>
<td>11. wool sweaters</td>
<td>k. tomatoes</td>
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<tr>
<td>12. french fries</td>
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</tr>
<tr>
<td>13. jelly</td>
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<tr>
<td>14. McNuggets</td>
<td></td>
</tr>
<tr>
<td>15. ketchup</td>
<td></td>
</tr>
<tr>
<td>16. noodles</td>
<td></td>
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<tr>
<td>17. hamburger</td>
<td></td>
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<tr>
<td>18. tater tots</td>
<td></td>
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<tr>
<td>19. drumstick</td>
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<tr>
<td>20. potato chips</td>
<td></td>
</tr>
</tbody>
</table>
Unscramble the words below to reveal a farm word.

- rpcso --------- What’s grown in the fields? ________________
- anrb --------- What do animals sleep in? ________________
- ipg --------- Oink Oink ________________
- eecfn --------- What is used to keep animals in the pasture? ________________
- nyobsea --------- Type of round bean. ________________
- osreh --------- Farm animal that’s fun to ride ________________
- amrfer --------- Who takes care of the animals? ________________
- actortr --------- What plows the field? ________________
- ronc --------- Crop that’s good with salt and butter ________________
- taewh --------- Crop used to make bread ________________
Maze
Help the chick find its mother
Add the numbers below to find out how many harvested acres of corn for grain was harvested in Virginia.

harvested acres

100,000
100,000
100,000
60,000
-6-

Across
1. Virginia’s number four cash commodity
4. Virginia’s number one export
7. where crops grow
9. grows on logs or moist places
11. ______ America, a region NASS has worked with
13. male cattle
14. type of fuel corn makes

Down
2. total number of pigs from page 10
3. what a farmer rides
5. what we have been learning about
6. ______ Washington conducted the first agriculture survey
8. Mary had a little _______
10. a drink with lots of calcium
11. a baby horse
12. short for the National Agricultural Statistics Service
The First shipments of Virginia-grown tobacco reached England in 1614. This began to make tobacco as a chief export of the American colonies. The ports in Hampton Roads are the largest tobacco exporters in the United States. Tobacco is from the Solanaceous family and is related to garden vegetables such as potatoes, tomatoes, and eggplant. Because of its excellent quality, Flue-cured tobacco is produced in many nations around the world including Australia, Canada, Africa, South America, and parts of Asia. Today, tobacco is still Virginia's largest cash crop and number 1 export.

True or False:

Word Find

Press Release Setah
Grietrophexeurlta
Uyrecountazay
Pbestedlhznpp
Dovxpictmvsfp
Frhrinsemyulu
Fedagudtttrizej
Nutgbenseizmt
Pabkotapmgcrs
Ossgmusjnmnaseo
Vnlersirnqezek
Vfakbfomjhzpbvb
Jgelaolxmxgoygis
Fyruffdbfgjklk
Amkefqsxvyvnrz

Appl etree
Barchart
Export
Hay
John
Nass
Press Release
Rolfe
Statistics
Survey
Turkey
Directions:

Try to fill in the missing numbers.
Use the numbers 1 through 9 to complete the equations.
Each number is only used once.
Each row is a math equation. Each column is a math equation.
Remember that multiplication and division are performed before addition and subtraction.

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<td>79</td>
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</tbody>
</table>

Math 3.9, 4.7, 5.3
Kidz Jokes

Q: What do you say to a cow that crosses in front of your car?
A: Mooo-ve over.

Q: Why was the chicken afraid of the chicken?
A: Because it was chicken.

Q: Why do cows have bells?
A: Because their horns don’t work.

Q: What do you get when you cross a cow with a duck?
A: Milk and quackers.

Q: What do pigs put on sore toes?
A: Oinkment!

Q: What runs around a farm but doesn’t move?
A: A fence.

Q: Why did the foal cough?
A: Because he was a little horse!

Q: What does a police officer use when he arrests a pig?
A: Ham cuffs.

Q: What do you call an arctic cow?
A: An eskimoo!

Q: Why did the farmer call his pig ‘Ink’?
A: Because he kept running out of the pen!

Q: What do you get when you cross a cow with an earthquake?
A: A milk shake!
In 1791 President George Washington received a letter from an Englishman named Arthur Young. Mr. Young had written to several farmers requesting information on land values, crops, yields, livestock prices, and taxes with no luck. By personally conducting a mail survey and compiling the results, President Washington was able to gather enough information to answer all of Mr. Young’s questions about American Agriculture. George Washington, in effect, had just conducted the Nation’s first agricultural survey.

**Fun Ag Facts!**

You would have to eat 11 medium eggs; or 17 slices of white bread or 2 1/2 cups of greens, or 4 1/2 ounces of sardines to get the amount of calcium found in just two 8-ounce glasses of milk.

Virginia peanuts are among the finest in the world. Some people call them the Cadillacs of peanuts.

It takes a broiler egg 21 days to hatch.

A milk cow gives an average of 42 pounds of milk a day.
### Top Cash Commodities

1. Broilers ................. $506
2. Cattle and Calves ...... $426
3. Milk ....................... $266
4. Turkeys ................... $261
5. Fresh Market Tomatoes $99
6. Soybeans .................. $87
7. Corn for Grain .......... $86
8. Tobacco ................. $72
9. Hogs ....................... $70
10. Eggs ....................... $67
11. Hay ....................... $44
12. Cotton .................... $43

### True or False

F, F, T

### Harvested Corn Acres

345,000

### Tomato producers

1. Florida
2. California
3. Virginia

### Press Release

Virginia Livestock Up 2 Head in 2015

Virginia had 17 pigs, 4 horses, 9 cows, and 13 chickens. The total livestock for Virginia in 2015 was 43 head. Hogs showed the most increase with 12 more head than 2014. Horses showed the most decrease with 14 less head than 2014.

Virginia Crops Down 2 acres in 2015

Virginia had 4 acres of apple trees, 12 acres of corn for grain, 12 acres of wheat, and 12 bales of hay in 2015. Total crop acreage in 2015 was 40 acres. Corn for grain showed the most increase with 6 more acres than 2014. Wheat showed the most decrease with 5 less acres than 2014.
Matching
1. C
2. B
3. K
4. A
5. D
6. J
7. C
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

Farm Scramble
crops
barn
pig
fence
soybean
horse
farmer
tractor
corn
wheat

turkeys
er
ev
ec
nt
tobacco
ger
ger
nfield
ecao
umushrooms
central
oat
tel
lsbull
k
tsr
ethanol

Maze

KIDZ PUZZLE

Word Find

Math Square

<table>
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Visit These Sites For More Agriculture Fun!

USDA for Kids
www.usda.gov/news/usdakids

NASS KIDS
www.usda.gov/nass/nasskids

The History of NASS
Words We Use
Ag for Teachers
NASS in Your State?
Version en Español

Games and Puzzles
Factsheets Fact
Stanley Stat
Ag Links
Email Us!!!

Agriculture & Math FUN!!!

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