



# 2018 Census of Agriculture Puerto Rico Data Release

June 9, 2020

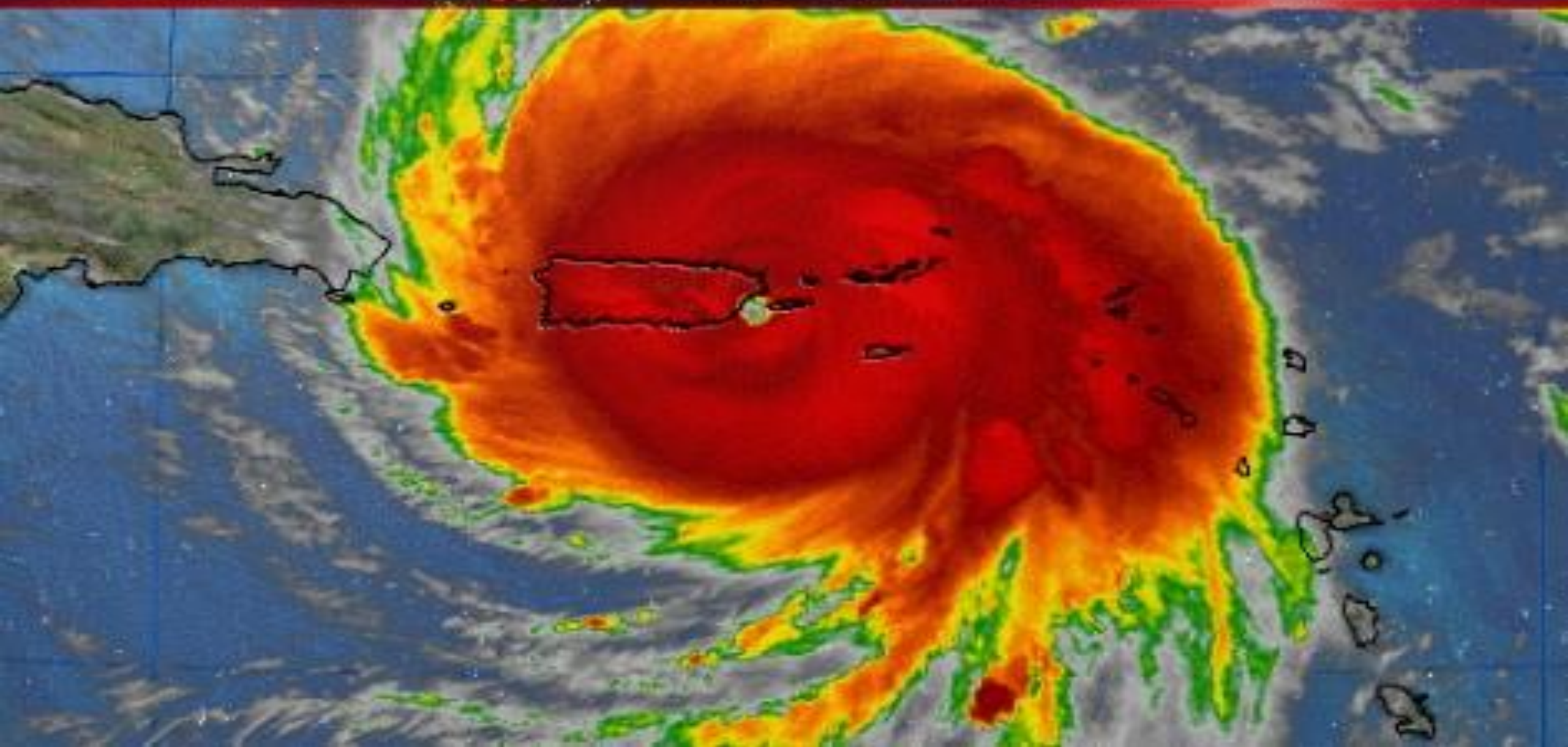
# Topics

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- Background – History, Hurricane Maria
- Census Data Collection
- Farms
- Economics
- Demographics
- Summary

# History of the Census of Agriculture in Puerto Rico

- 1910 – 1<sup>st</sup> Puerto Rico Census of Agriculture
- 2018 Puerto Rico Census of Agriculture:
  - This is Puerto Rico's 18<sup>th</sup> Census of Agriculture and the 5<sup>th</sup> conducted by NASS
  - In 1997, the Census was transferred from the Census Bureau to NASS
- Data are available for:
  - Island and regional levels
  - Municipio level data is not available for 2018



# Census Data Collection

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Area Coverage Evaluation Survey  
(ACES)

300 Segments

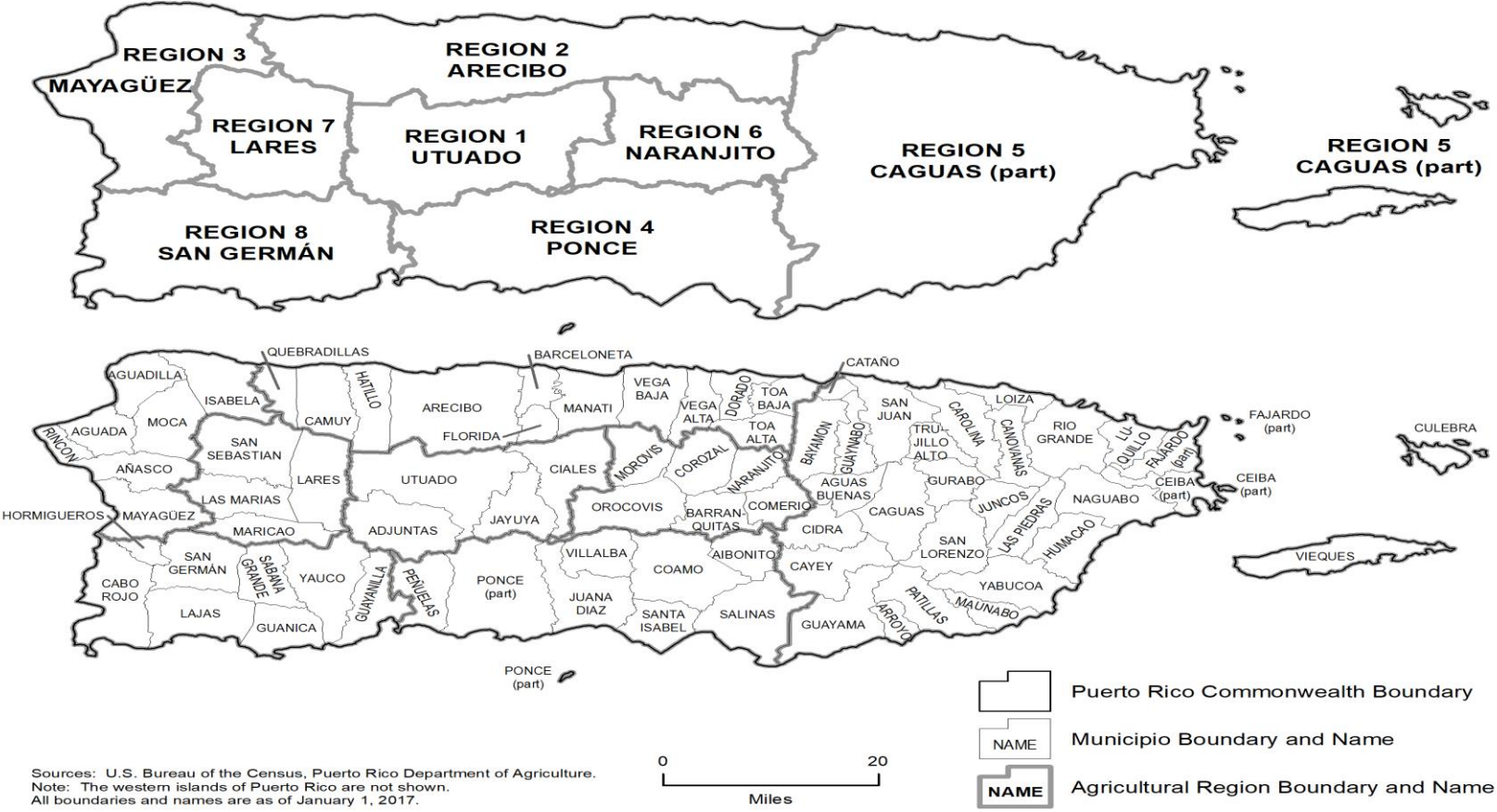
Puerto Rico Census of Agriculture

21,378 List

Response Rate

29.1 %

# Puerto Rico Census of Agriculture Regions



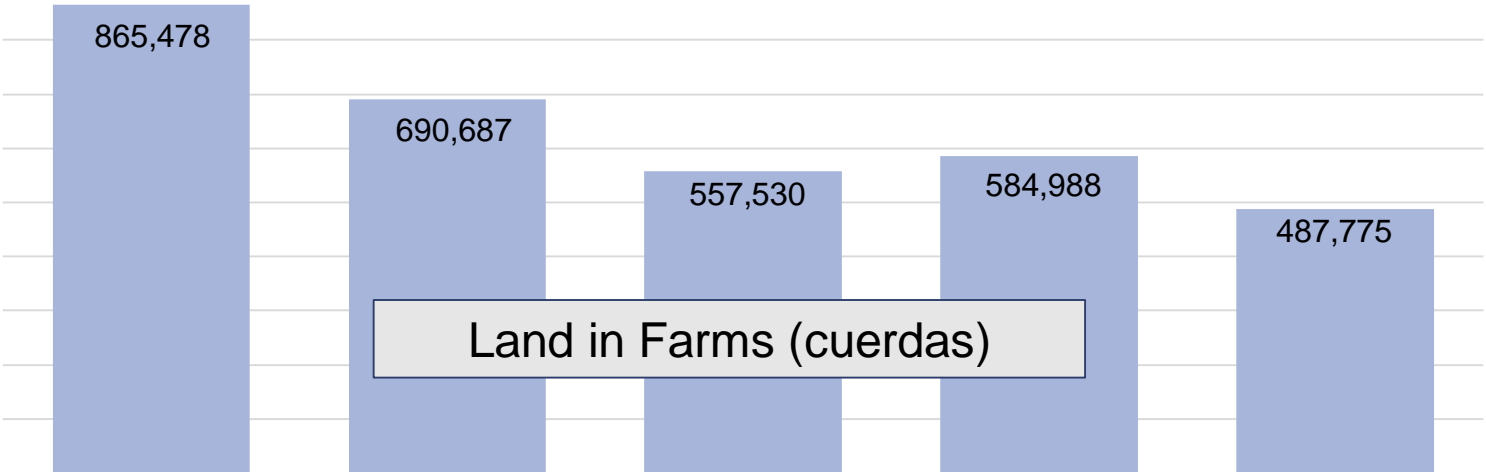
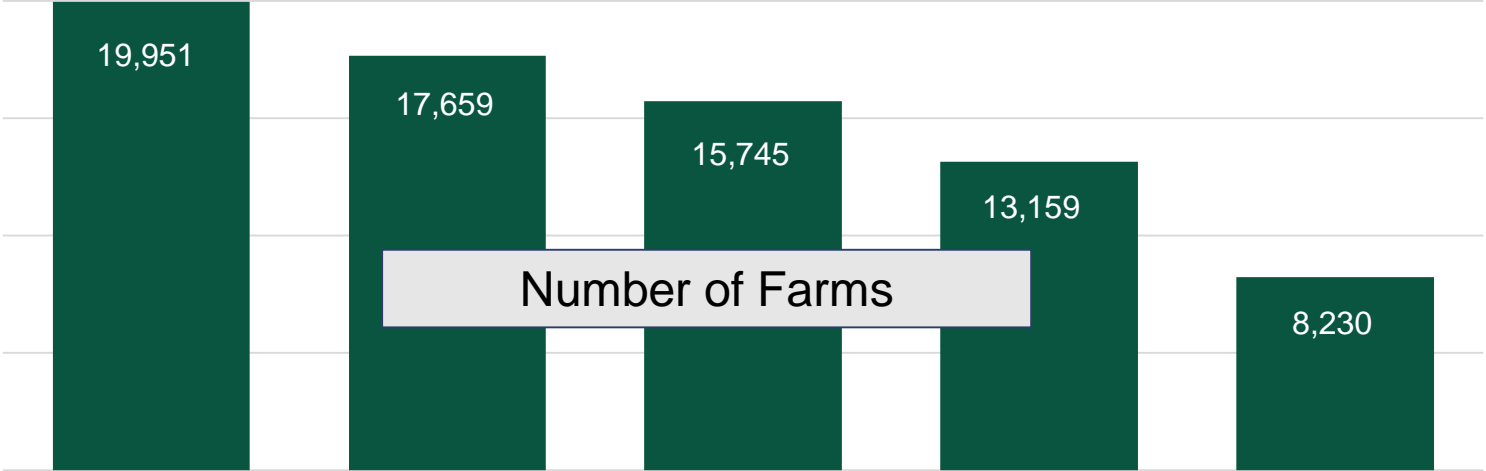
# Farm Definition

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*Puerto Rico:*

*“Any place from which \$500 or more of agricultural products were produced and sold, or **normally would have been sold**, during the census year.”*

# Number of Farms and Land in Farms: 1998-2018

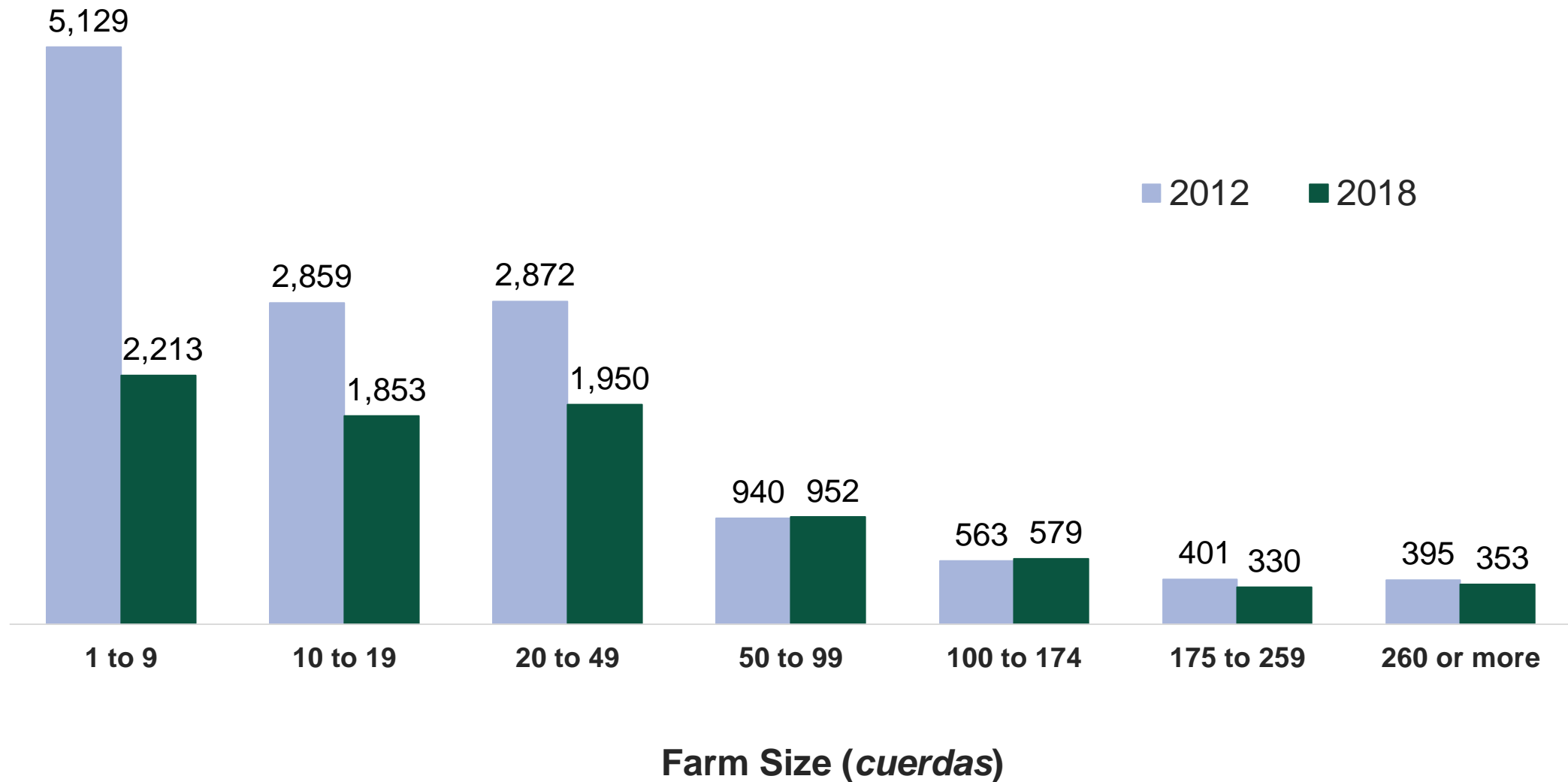


|                             | 2012    | 2018    | Percent change |
|-----------------------------|---------|---------|----------------|
| Number of farms             |         |         |                |
|                             | 13,159  | 8,230   | -37.5          |
| Land in farms (cuerdas)     |         |         |                |
|                             | 584,988 | 487,775 | -16.6          |
| Average farm size (cuerdas) |         |         |                |
|                             | 44.5    | 59.3    | +33.3          |

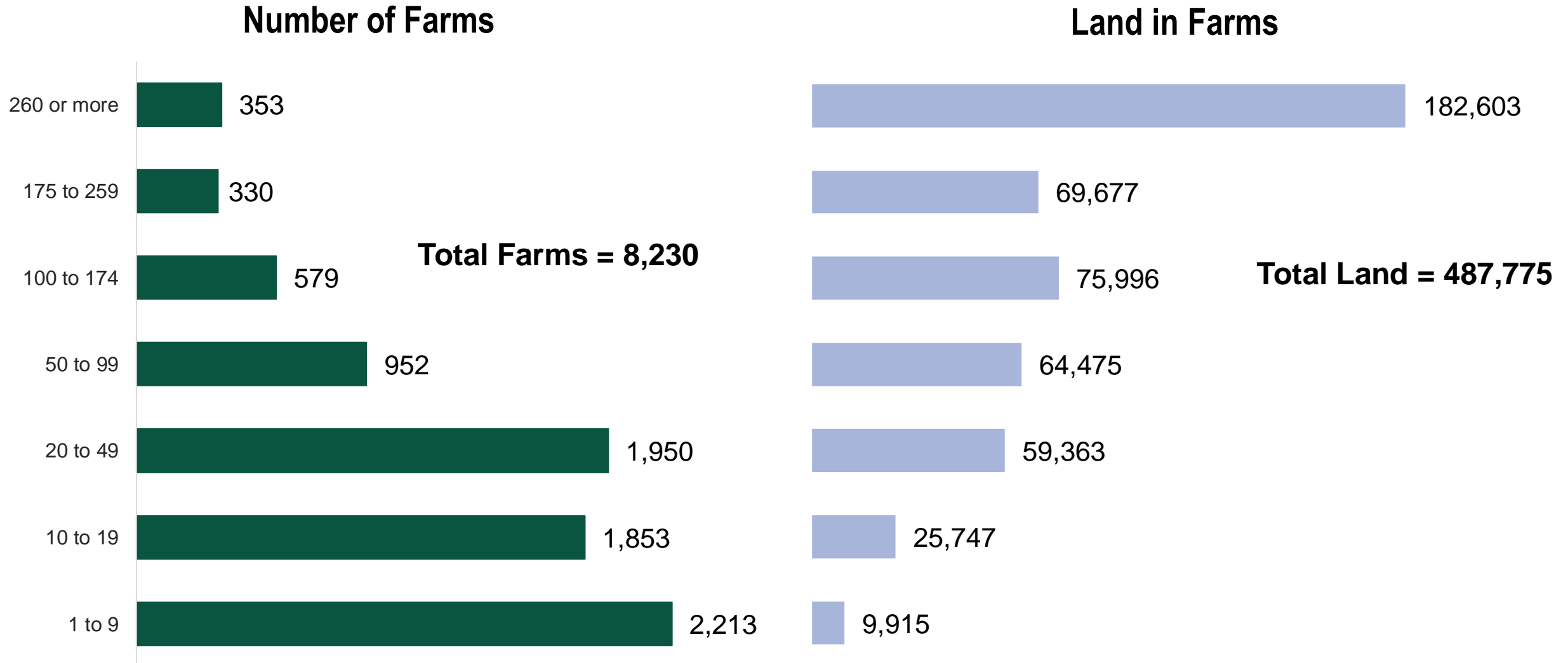
1998      2002      2007      2012      2018



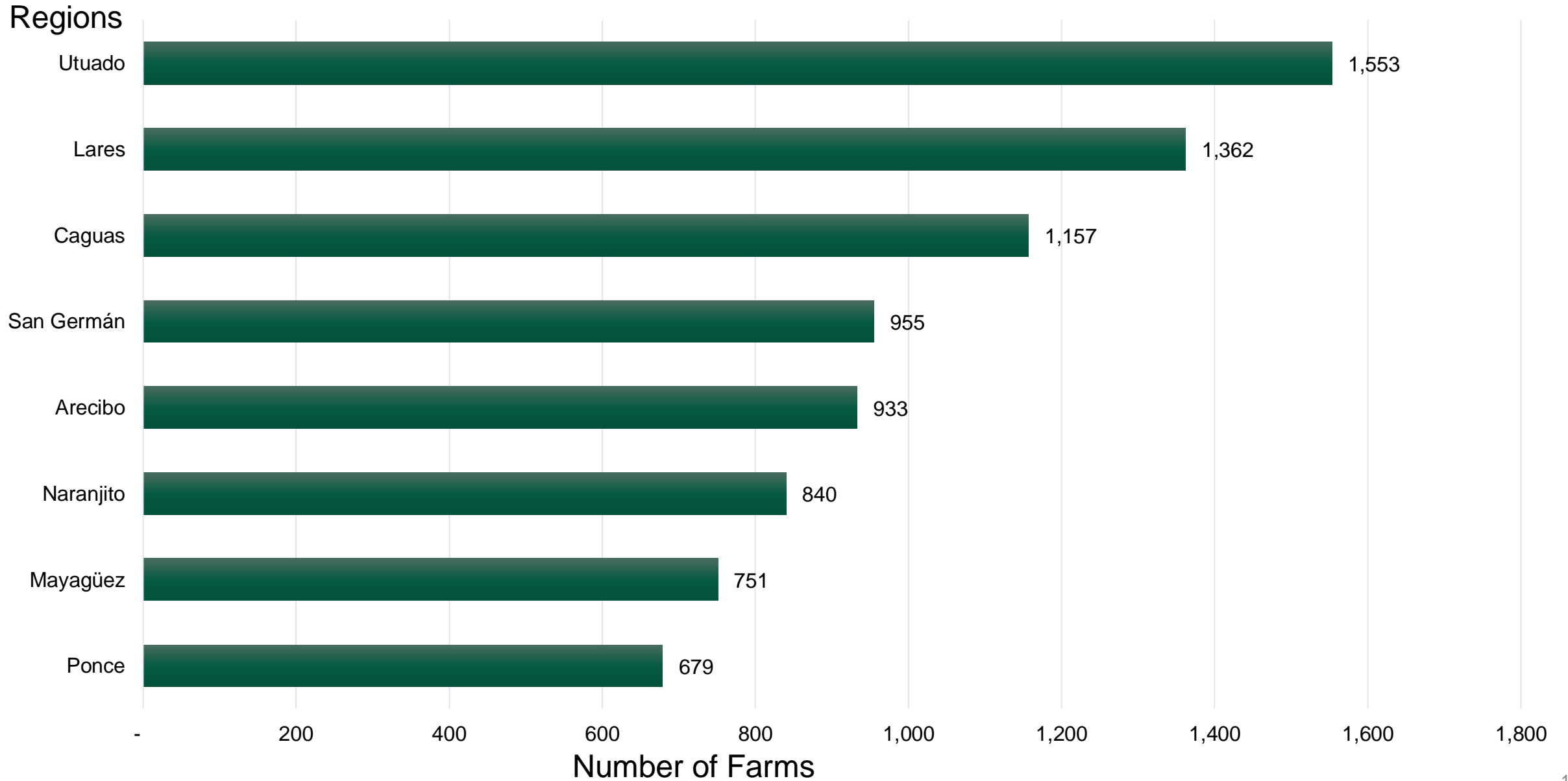
# Number of Farms by Size Class: 2012 and 2018



# Number of Farms and Land in Farms by Size Class (cuerdas): 2018



# Number of Farms by Region

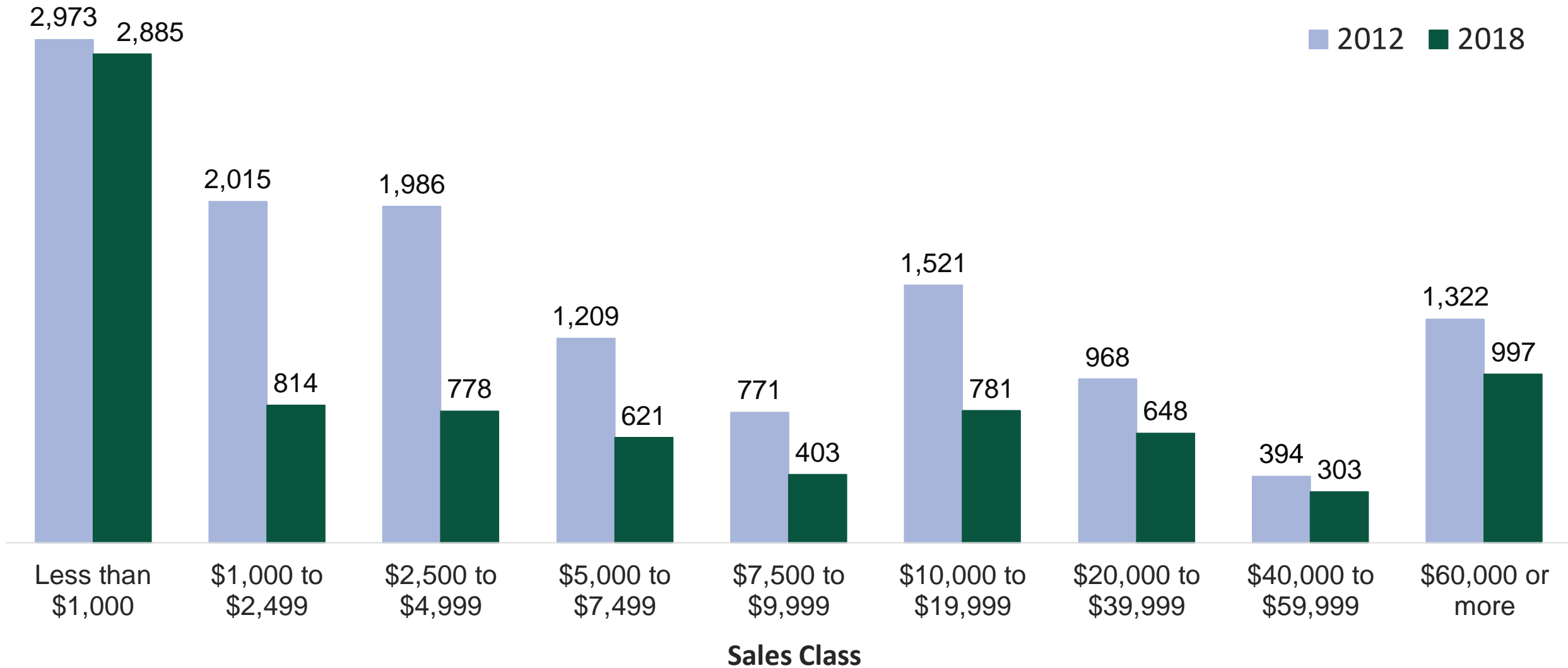


# Economics

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- Total Value of Agricultural Production
- Crops and Livestock Value of Production
- Farm Income and Expenses

# Number of Farms by Sales Class: 2012 and 2018



# Total Value of Agricultural Production by Region: 2018

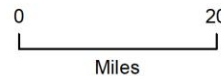
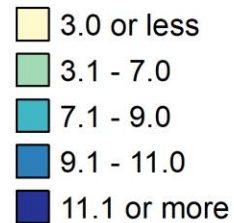
## Total Value of Production by Region as Percent of Island Total



| Region     | TVP (\$ millions) |
|------------|-------------------|
| Arecibo    | 139.1             |
| Ponce      | 120.0             |
| Caguas     | 53.3              |
| Naranjito  | 45.3              |
| Mayagüez   | 39.4              |
| San Germán | 39.1              |
| Lares      | 34.2              |
| Ututado    | 14.6              |

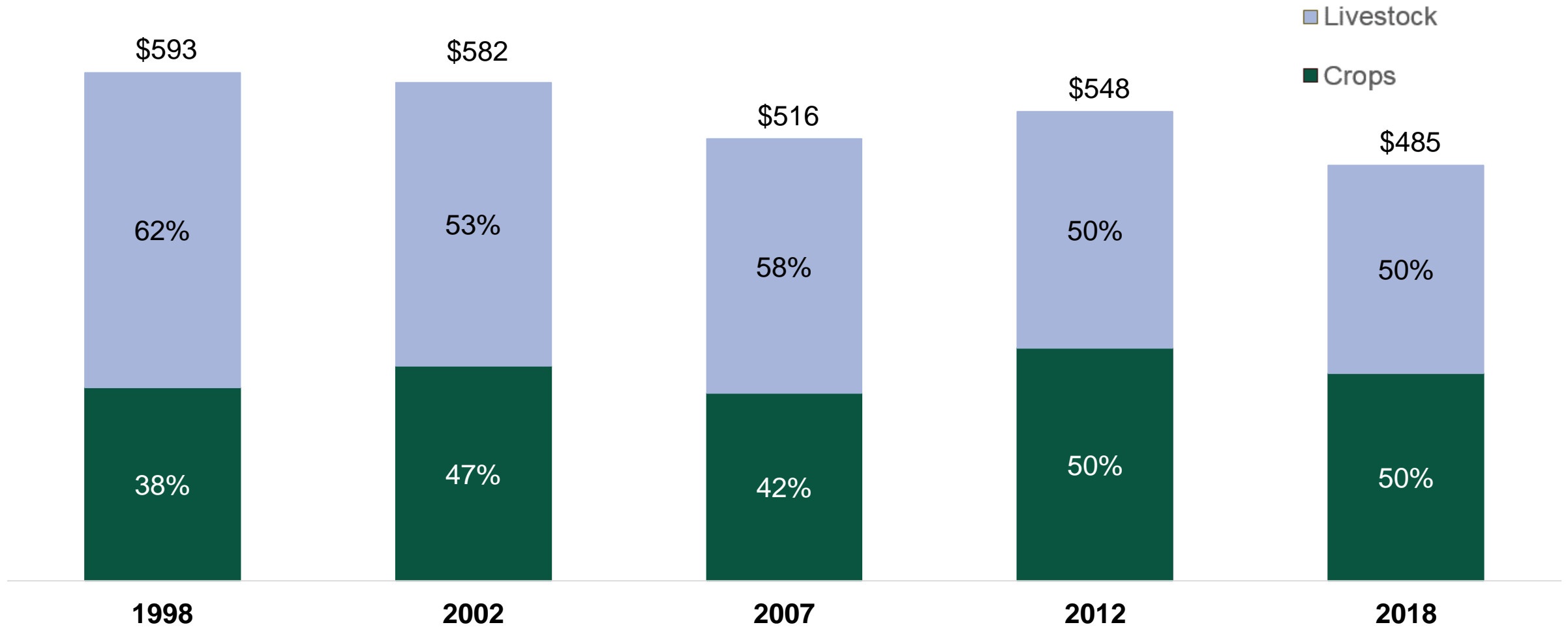
**Total = \$485 million**

Total Value of Production as Percent

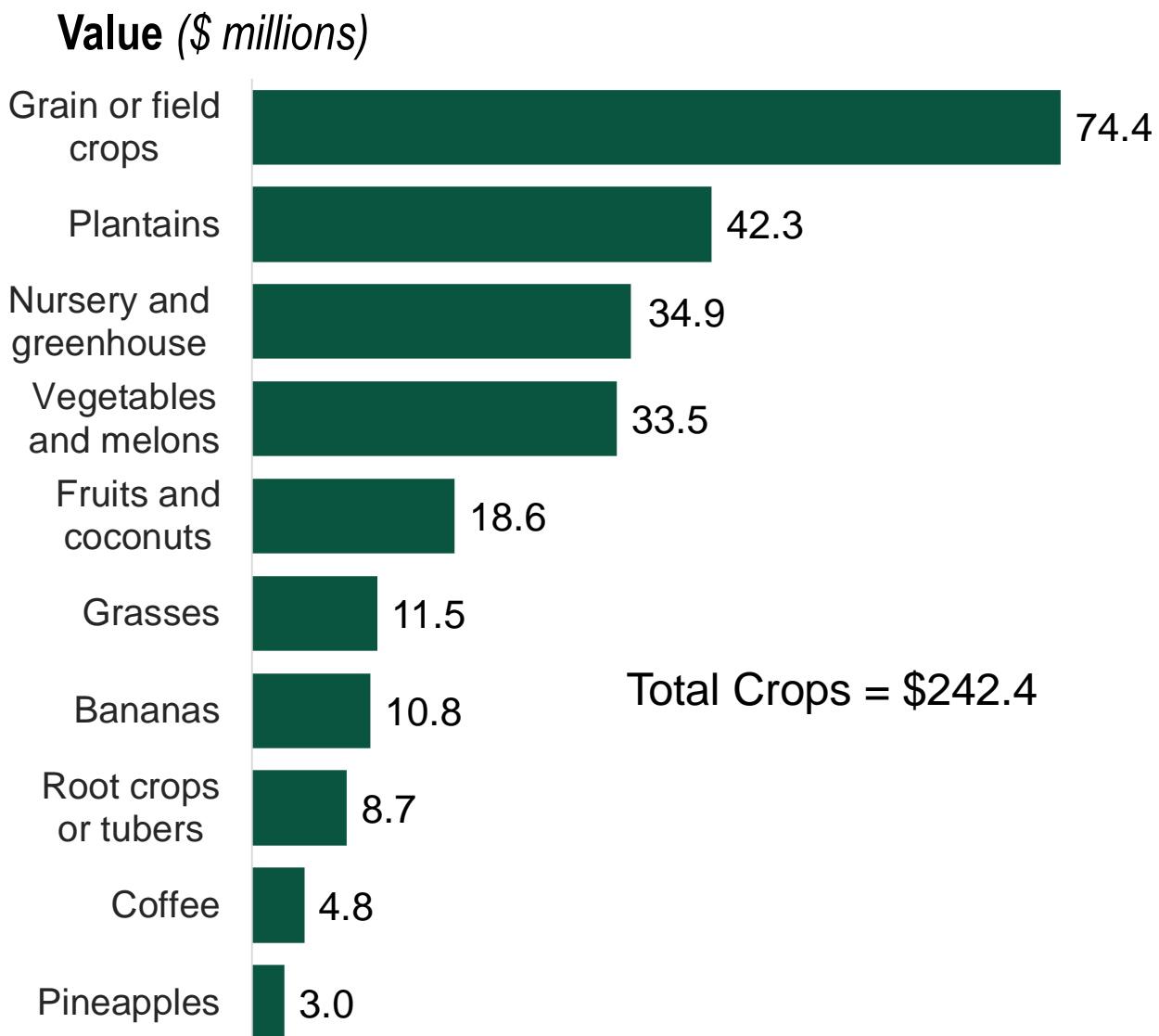


Sources: U.S. Department of Agriculture, National Agricultural Statistics Service; Puerto Rico Department of Agriculture.  
 Note: The western islands of Puerto Rico are not shown.  
 All boundaries and names are as of January 1, 2017.

# Crops and Livestock Value of Production: 1998 - 2018 (\$ millions)



# Value of Production by Crop Category: 2018

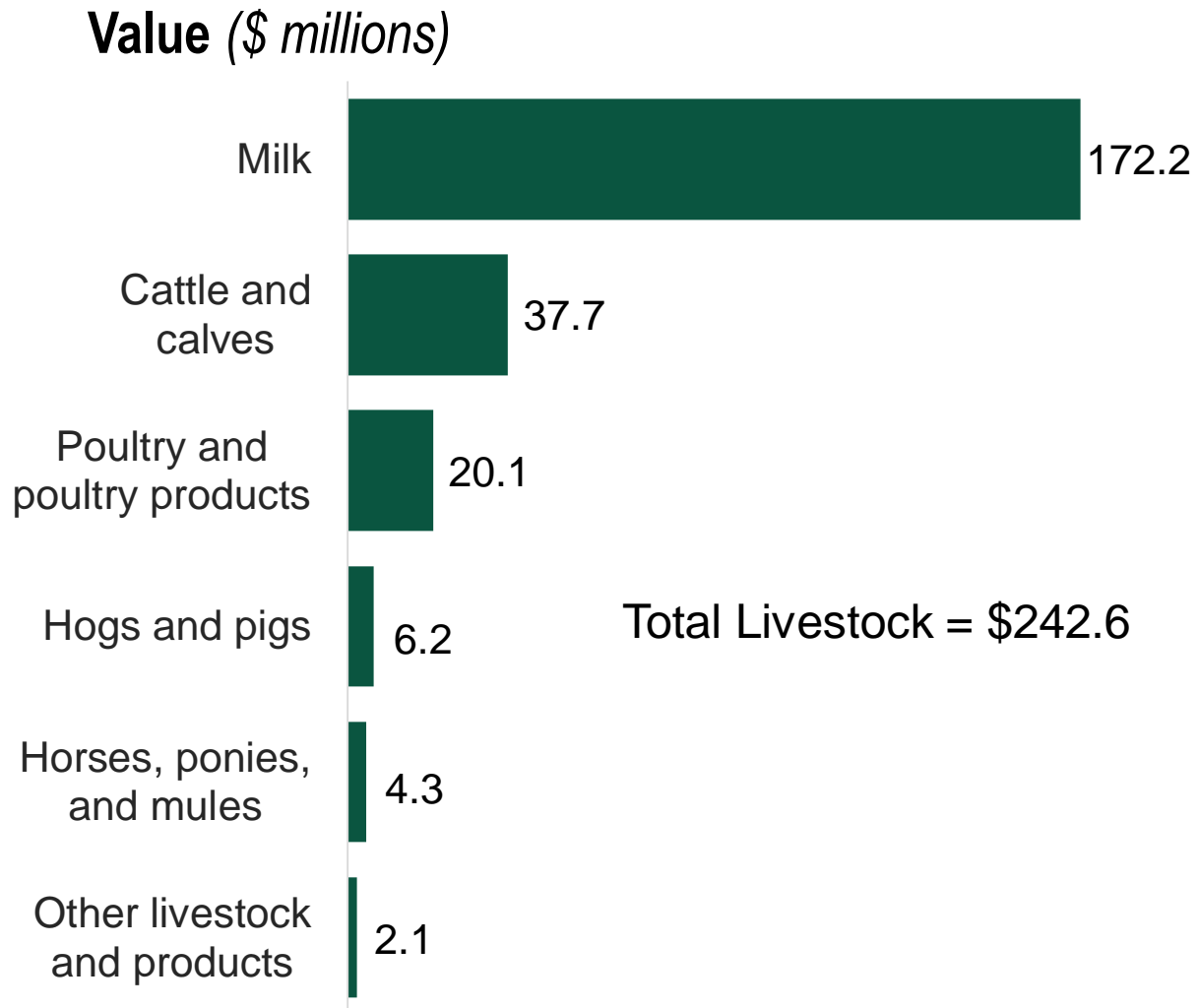


| Crops Categories             | Top Region | Percent of Puerto Rico |
|------------------------------|------------|------------------------|
| Grains or field crops        | Ponce      | (D)                    |
| Plantains                    | Naranjito  | 24.3                   |
| Nursery and greenhouse crops | Arecibo    | 35.1                   |
| Vegetables and melons        | Ponce      | 48.7                   |
| Fruits and coconuts          | Ponce      | 48.5                   |
| Grasses                      | San Germán | (D)                    |
| Bananas                      | Ponce      | (D)                    |
| Root crops or tubers         | Naranjito  | 41.5                   |
| Coffee                       | Utualdo    | 42.8                   |
| Pineapples                   | Arecibo    | (D)                    |

(D) Withheld to avoid disclosing data for individual farms.



# Value of Production by Livestock Category: 2018



| Livestock Categories         | Top Region | Percent of Puerto Rico |
|------------------------------|------------|------------------------|
| Milk                         | Arecibo    | 61.0                   |
| Cattle and calves            | Arecibo    | 25.6                   |
| Poultry and poultry products | Naranjito  | (D)                    |
| Hogs and pigs                | Mayagüez   | 20.3                   |
| Horses, ponies, mules        | Ponce      | 79.8                   |
| Other livestock and products | Ponce      | 55.7                   |

(D) Withheld to avoid disclosing data for individual farms.

## Selected Crops Value of Production: 2012 and 2018 (\$ millions)

| Crops                             | 2012         | 2018         | Percent change |
|-----------------------------------|--------------|--------------|----------------|
| <b>Crops Value of Production:</b> | <b>271.3</b> | <b>242.4</b> | <b>-10.7</b>   |
| Grains or field crops             | 8.5          | 74.4         | +771.3         |
| Plantains                         | 80.5         | 42.3         | -47.5          |
| Nursery and greenhouse crops      | 37.5         | 34.9         | -6.9           |
| Vegetables and melons             | 47.1         | 33.5         | -28.9          |
| Fruits and coconuts               | 31.5         | 18.6         | -41.0          |
| Grasses                           | 14.6         | 11.5         | -21.3          |
| Coffee                            | 29.3         | 4.8          | -83.7          |

# Livestock Value of Production: 2012 and 2018 (\$ millions)

| Livestock                             | 2012         | 2018         | Percent change |
|---------------------------------------|--------------|--------------|----------------|
| <b>Livestock Value of Production:</b> | <b>276.3</b> | <b>242.6</b> | <b>-12.2</b>   |
| Milk                                  | 189.4        | 172.2        | -9.1           |
| Cattle and calves                     | 33.6         | 37.7         | +12.2          |
| Poultry and poultry products          | 40.4         | 20.1         | -50.2          |
| Hogs                                  | 8.0          | 6.2          | -22.5          |
| Horses, ponies and mules              | 2.6          | 4.3          | +64.3          |
| Other livestock and products          | 2.3          | 2.1          | -8.7           |

## Farm Income and Expenses: 2012 and 2018 (\$ millions)

| Economic item                            | 2012  | 2018  | Percent change |
|--|-------|-------|----------------|
| Value of agricultural products sold      | 547.6 | 485.1 | -11.4          |
| Government payments                      | 35.4  | 85.7  | +142.1         |
| Income from agriculture-related sources* | 17.1  | 14.2  | -16.4          |
| Production expenses                      | 496.5 | 457.6 | -7.9           |
| Depreciation                             | NA    | 42.2  | NA             |

\* Excluding Government and insurance payments.

# Demographics

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Military Service is a new category surveyed in the Census of Agriculture

Has this person ever served on active duty in the U.S. Armed Forces, Reserves, or National Guard?

- Never served in the military
- Only on active duty for training in the Reserves or National Guard
- Now on active duty
- On active duty in the past but not now

# Characteristics of Farm Operators in Puerto Rico: 2012 and 2018

|                      | 2012   | 2018  | Percent change |
|----------------------|--------|-------|----------------|
| Total Farm Operators | 13,159 | 8,230 | -37.5          |
| Hispanic Origin      | 98%    | 99%   | +1             |
| Percent Male         | 91.7%  | 88.5% | - 3.2          |
| Percent Female       | 8.3%   | 11.5% | +3.2           |
| Male                 | 12,066 | 7,286 | -39.6          |
| Female               | 1,093  | 944   | -13.6          |
| Average Age          | 59     | 60    | +1.7           |
| Military Service     | NA     | 866   | NA             |

# New and Beginning Farmers: 2012 and 2018

| Started Farming                   | 2012  | 2018 | Percent change |
|-----------------------------------|-------|------|----------------|
| Less than 2 years                 | 773   | 339  | -56.1          |
| Primary occupation in agriculture | 223   | 178  | -20.2          |
| Between 2 and 4 years             | 1,339 | 794  | -40.7          |
| Primary occupation in agriculture | 613   | 413  | -32.6          |
| <b>By Age Group:</b>              |       |      |                |
| Under 25 years old                | 20    | 32   | +60.0          |
| Primary occupation in agriculture | 18    | 23   | +27.8          |
| Between 25 and 34 years old       | 487   | 294  | -39.6          |
| Primary occupation in agriculture | 233   | 222  | -4.7           |

# Key Summary Points

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- Farm numbers and land in farms both have ongoing percentage declines.
- Fewer farms account for the majority of agricultural products sold.
- Hurricane Maria resulted in significant losses across the island.
- Grains now represent a large portion of Puerto Rico's Total Value of Production.



# Puerto Rico Census of Agriculture Products

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- Island Profile
- Regional Profiles
- Highlights
- Data in Quick Stats at [quickstats.nass.usda.gov](http://quickstats.nass.usda.gov)

# Upcoming Census Releases

| Release Date      | Release Title                         |
|-------------------|---------------------------------------|
| July 21, 2020     | Outlying Areas                        |
| August 28, 2020   | Specialty Crops for Outlying Areas*   |
| October 22, 2020  | Organic Survey                        |
| December 8, 2020  | Census of Horticultural Specialties   |
| January 22, 2021  | Typology                              |
| November 18, 2021 | Local Food Marketing Practices Survey |
| January 27, 2022  | History of the Census of Agriculture  |

\* Outlying Areas include American Samoa, Guam, Northern Mariana and U.S. Virgin Islands.



All Reports Available At  
[www.nass.usda.gov/AgCensus/index.php](http://www.nass.usda.gov/AgCensus/index.php)

## For Questions

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