



Honey Bee Colonies

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January 1 Honey Bee Colonies Up 8 Percent for Operations with Five or More Colonies

Honey bee colonies for operations with five or more colonies in the United States on January 1, 2020 totaled 2.88 million colonies, up 8 percent from January 1, 2019. The number of colonies in the United States on April 1, 2020 was 2.98 million colonies. During 2019, honey bee colonies on January 1, July 1, and October 1 were 2.67 million, 3.18 million, and 3.02 million colonies, respectively.

Honey bee colonies lost for operations with five or more colonies from January through March 2020, was 399,570 colonies, or 14 percent. The number of colonies lost during the quarter of April through June 2020 was 252,630 colonies, or 8 percent. During the quarter of July through September 2019, colonies lost totaled 434,700 colonies, or 14 percent, the highest number lost of any quarter surveyed in 2019. The quarter surveyed in 2019 with the lowest number of colonies lost was October through December, with 399,510 colonies lost, or 13 percent.

Honey bee colonies added for operations with five or more colonies from January through March 2020 was 477,200 colonies. The number of colonies added during the quarter of April through June 2020 was 596,860. During the quarter of July through September 2019, 252,550 colonies were added, the highest number of honey bee colonies added for any quarter surveyed in 2019. The quarter of October through December 2019 added 233,260 colonies, the least number of honey bee colonies added for any quarter surveyed in 2019.

Honey bee colonies renovated for operations with five or more colonies from January through March 2020 was 153,390 colonies, or 5 percent. During the quarter of April through June 2020, 632,680 colonies, or 21 percent, were renovated. The quarter surveyed in 2019 with the highest number of colonies renovated was July through September with 355,330 colonies renovated, or 11 percent. The quarter surveyed in 2019 with the lowest number of colonies renovated was October through December 2019, with 91,000, or 3 percent. Renovated colonies are those that were requeened or received new honey bees through a nuc or package.

Varroa Mites Top Colony Stressor for Operations with Five or More Colonies

Varroa mites were the number one stressor for operations with five or more colonies during all quarters surveyed in 2019. The quarter of October through December 2019 had the highest percentage of colonies reported to be affected by varroa mites at 45.7 percent. The percent of colonies reported to be affected by varroa mites during January through March 2020 and April through June 2020 are 25.5 percent and 42.3 percent respectively.

Colonies Lost with Colony Collapse Disorder Symptoms Up 76 Percent for Operations with Five or More Colonies

Honey bee colonies lost with Colony Collapse Disorder symptoms on operations with five or more colonies was 105,240 colonies from January through March 2020. This is a 76 percent increase from the same quarter of 2019.

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Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – States and United States: January 1, 2019 and January-March 2019

| State | January 1 colonies | January-March | | | | | |
|---------------------------------|--------------------|-------------------------------|---------------|---------------------------|----------------|---------------------------------|--------------------------------|
| | | Maximum colonies ¹ | Lost colonies | Percent lost ² | Added colonies | Renovated colonies ³ | Percent renovated ⁴ |
| | (number) | (number) | (number) | (percent) | (number) | (number) | (percent) |
| Alabama | 5,500 | 5,500 | 650 | 12 | 800 | 200 | 4 |
| Arizona | 22,000 | 22,000 | 2,500 | 11 | 430 | 90 | (Z) |
| Arkansas | 28,000 | 28,000 | 6,500 | 23 | 20 | 20 | (Z) |
| California | 1,140,000 | 1,580,000 | 235,000 | 15 | 83,000 | 86,000 | 5 |
| Colorado | 5,000 | 7,500 | 320 | 4 | - | - | - |
| Connecticut | 3,100 | 3,100 | 270 | 9 | 170 | 10 | (Z) |
| Florida | 300,000 | 315,000 | 46,000 | 15 | 41,000 | 16,500 | 5 |
| Georgia | 120,000 | 129,000 | 14,500 | 11 | 19,500 | 8,000 | 6 |
| Hawaii | 16,500 | 16,500 | 390 | 2 | 660 | 3,700 | 22 |
| Idaho | 132,000 | 145,000 | 12,500 | 9 | 4,600 | 1,100 | 1 |
| Illinois | 9,000 | 9,000 | 2,300 | 26 | 210 | 80 | 1 |
| Indiana | 6,000 | 6,000 | 710 | 12 | 440 | 280 | 5 |
| Iowa | 7,500 | 11,500 | 1,600 | 14 | 170 | 140 | 1 |
| Kansas | 4,500 | 4,500 | 1,500 | 33 | 370 | 110 | 2 |
| Kentucky | 3,700 | 4,400 | 890 | 20 | 60 | 30 | 1 |
| Louisiana | 49,000 | 51,000 | 3,500 | 7 | 9,000 | 16,000 | 31 |
| Maine | 7,000 | 7,000 | 470 | 7 | 10 | 30 | (Z) |
| Maryland | 8,000 | 8,000 | 2,300 | 29 | 30 | 10 | (Z) |
| Massachusetts | 3,800 | 3,800 | 680 | 18 | 60 | 20 | 1 |
| Michigan | 24,000 | 33,000 | 6,500 | 20 | - | - | - |
| Minnesota | 17,000 | 43,000 | 2,200 | 5 | 80 | 470 | 1 |
| Mississippi | 26,000 | 29,000 | 2,400 | 8 | 3,800 | 1,700 | 6 |
| Missouri | 8,500 | 8,500 | 1,100 | 13 | 80 | 60 | 1 |
| Montana | 37,000 | 68,000 | 3,500 | 5 | 1,700 | 1,900 | 3 |
| Nebraska | 13,500 | 16,500 | 2,500 | 15 | - | - | - |
| New Jersey | 6,000 | 6,000 | 310 | 5 | 130 | 60 | 1 |
| New Mexico | 4,800 | 4,800 | 170 | 4 | - | - | - |
| New York | 24,000 | 24,000 | 3,400 | 14 | 110 | 80 | (Z) |
| North Carolina | 10,500 | 14,500 | 1,700 | 12 | 750 | 890 | 6 |
| North Dakota | 92,000 | 102,000 | 1,100 | 1 | - | 1,300 | 1 |
| Ohio | 10,500 | 12,500 | 3,500 | 28 | 1,700 | 440 | 4 |
| Oklahoma | 21,000 | 55,000 | 50 | (Z) | 20 | - | - |
| Oregon | 89,000 | 95,000 | 7,500 | 8 | 8,000 | 1,800 | 2 |
| Pennsylvania | 15,000 | 15,000 | 2,900 | 19 | 370 | 320 | 2 |
| South Carolina | 12,000 | 13,000 | 690 | 5 | 2,000 | 340 | 3 |
| South Dakota | 18,500 | 18,500 | 1,100 | 6 | - | - | - |
| Tennessee | 6,000 | 7,000 | 1,500 | 21 | 240 | 320 | 5 |
| Texas | 260,000 | 330,000 | 17,000 | 5 | 61,000 | 35,000 | 11 |
| Utah | 8,500 | 11,000 | 1,800 | 16 | 900 | - | - |
| Vermont | 6,500 | 6,500 | 260 | 4 | 50 | (Z) | (Z) |
| Virginia | 5,500 | 5,500 | 1,100 | 20 | 80 | 110 | 2 |
| Washington | 51,000 | 75,000 | 7,000 | 9 | 5,500 | 2,200 | 3 |
| West Virginia | 5,000 | 7,000 | 1,300 | 19 | 20 | 60 | 1 |
| Wisconsin | 16,500 | 17,000 | 3,700 | 22 | 580 | 100 | 1 |
| Wyoming | 6,500 | 9,500 | 250 | 3 | - | - | - |
| Other States ⁵ | 6,070 | 6,070 | 590 | 10 | 70 | 30 | (Z) |
| United States | 2,671,470 | (X) | 407,700 | 15 | 247,710 | 179,500 | 7 |

- Represents zero.

(X) Not applicable.

(Z) Less than half of the unit shown.

¹ January 1 colonies plus all colonies moved into that state during the quarter.

² Percent lost is the number of lost colonies divided by maximum colonies except for the United States, where percent lost is the number of lost colonies divided by the January 1 colonies.

³ Defined as any surviving colony that was requeened or received new honey bees through nuc or package.

⁴ Percent renovated is the number of renovated colonies divided by maximum colonies except for the United States, where percent renovated is the number of renovated colonies divided by the January 1 colonies.

⁵ Includes data for States not published in this table.

Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – States and United States: April 1, 2019 and April-June 2019 ⁶

| State | April 1 colonies | April-June | | | | | |
|---------------------------------|------------------|-------------------------------|---------------|---------------------------|----------------|---------------------------------|--------------------------------|
| | | Maximum colonies ¹ | Lost colonies | Percent lost ² | Added colonies | Renovated colonies ³ | Percent renovated ⁴ |
| | (number) | (number) | (number) | (percent) | (number) | (number) | (percent) |
| Alabama | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Arizona | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Arkansas | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| California | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Colorado | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Connecticut | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Florida | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Georgia | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Hawaii | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Idaho | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Illinois | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Indiana | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Iowa | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Kansas | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Kentucky | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Louisiana | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Maine | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Maryland | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Massachusetts | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Michigan | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Minnesota | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Mississippi | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Missouri | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Montana | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Nebraska | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| New Jersey | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| New Mexico | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| New York | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| North Carolina | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| North Dakota | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Ohio | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Oklahoma | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Oregon | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Pennsylvania | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| South Carolina | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| South Dakota | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Tennessee | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Texas | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Utah | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Vermont | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Virginia | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Washington | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| West Virginia | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Wisconsin | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Wyoming | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Other States ⁵ | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| United States | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |

(NA) Not available.

¹ April 1 colonies plus all colonies moved into that state during the quarter.

² Percent lost is the number of lost colonies divided by maximum colonies except for the United States, where percent lost is the number of lost colonies divided by the April 1 colonies.

³ Defined as any surviving colony that was requeened or received new honey bees through nuc or package.

⁴ Percent renovated is the number of renovated colonies divided by maximum colonies except for the United States, where percent renovated is the number of renovated colonies divided by the April 1 colonies.

⁵ Includes data for States not published in this table.

⁶ Data collection for July 2019 quarterly honey bee colonies was suspended.

Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – States and United States: July 1, 2019 and July-September 2019

| State | July 1 colonies | July-September | | | | | |
|---------------------------------|-----------------|-------------------------------|---------------|---------------------------|----------------|---------------------------------|--------------------------------|
| | | Maximum colonies ¹ | Lost colonies | Percent lost ² | Added colonies | Renovated colonies ³ | Percent Renovated ⁴ |
| | (number) | (number) | (number) | (percent) | (number) | (number) | (percent) |
| Alabama | 7,000 | 7,000 | 990 | 14 | 160 | 330 | 5 |
| Arizona | 26,000 | 30,000 | 2,000 | 7 | 5,500 | 3,800 | 13 |
| Arkansas | 20,000 | 21,000 | 2,100 | 10 | 170 | 680 | 3 |
| California | 650,000 | 700,000 | 93,000 | 13 | 87,000 | 108,000 | 15 |
| Colorado | 33,000 | 36,000 | 9,500 | 26 | 2,200 | 3,400 | 9 |
| Connecticut | 4,400 | 4,400 | 200 | 5 | 70 | 470 | 11 |
| Florida | 210,000 | 240,000 | 20,000 | 8 | 46,000 | 33,000 | 14 |
| Georgia | 116,000 | 118,000 | 13,000 | 11 | 12,000 | 36,000 | 31 |
| Hawaii | 17,000 | 17,000 | 200 | 1 | 200 | 6,000 | 35 |
| Idaho | 95,000 | 111,000 | 10,500 | 9 | 8,500 | 12,500 | 11 |
| Illinois | 13,500 | 13,500 | 940 | 7 | 460 | 1,300 | 10 |
| Indiana | 14,000 | 16,000 | 1,000 | 6 | 2,200 | 1,500 | 9 |
| Iowa | 30,000 | 33,000 | 3,400 | 10 | 2,000 | 4,800 | 15 |
| Kansas | 7,500 | 7,500 | 1,900 | 25 | 190 | 400 | 5 |
| Kentucky | 8,000 | 8,500 | 850 | 10 | 700 | 430 | 5 |
| Louisiana | 42,000 | 44,000 | 4,100 | 9 | 4,400 | 13,000 | 30 |
| Maine | 11,500 | 12,000 | 1,100 | 9 | 460 | 3,500 | 29 |
| Maryland | 7,500 | 7,500 | 790 | 11 | 720 | 1,200 | 16 |
| Massachusetts | 13,500 | 13,500 | 1,100 | 8 | 800 | 560 | 4 |
| Michigan | 94,000 | 99,000 | 11,000 | 11 | 3,000 | 3,300 | 3 |
| Minnesota | 126,000 | 129,000 | 21,000 | 16 | 5,000 | 2,100 | 2 |
| Mississippi | 23,000 | 23,000 | 2,900 | 13 | 550 | 850 | 4 |
| Missouri | 10,500 | 10,500 | 500 | 5 | 260 | 350 | 3 |
| Montana | 147,000 | 154,000 | 18,500 | 12 | 3,600 | 12,500 | 8 |
| Nebraska | 40,000 | 41,000 | 3,700 | 9 | 680 | 1,400 | 3 |
| New Jersey | 16,000 | 16,000 | 680 | 4 | 650 | 3,100 | 19 |
| New Mexico | 2,400 | 5,500 | 170 | 3 | 1,000 | 550 | 10 |
| New York | 65,000 | 69,000 | 8,500 | 12 | 3,200 | 3,700 | 5 |
| North Carolina | 22,000 | 22,000 | 2,700 | 12 | 1,800 | 5,000 | 23 |
| North Dakota | 530,000 | 530,000 | 81,000 | 15 | 15,000 | 17,500 | 3 |
| Ohio | 19,500 | 19,500 | 1,600 | 8 | 2,800 | 3,000 | 15 |
| Oklahoma | 7,500 | 7,500 | 930 | 12 | 130 | 1,100 | 15 |
| Oregon | 83,000 | 118,000 | 8,000 | 7 | 6,000 | 21,000 | 18 |
| Pennsylvania | 19,000 | 20,000 | 980 | 5 | 1,800 | 1,900 | 10 |
| South Carolina | 14,500 | 14,500 | 2,200 | 15 | 2,000 | 1,400 | 10 |
| South Dakota | 255,000 | 255,000 | 51,000 | 20 | 1,300 | 8,000 | 3 |
| Tennessee | 14,000 | 14,000 | 4,500 | 32 | 2,200 | 2,200 | 16 |
| Texas | 126,000 | 133,000 | 11,000 | 8 | 6,500 | 7,000 | 5 |
| Utah | 24,000 | 29,000 | 2,800 | 10 | 3,500 | 1,700 | 6 |
| Vermont | 7,000 | 7,000 | 120 | 2 | 80 | 490 | 7 |
| Virginia | 9,000 | 9,000 | 570 | 6 | 350 | 820 | 9 |
| Washington | 85,000 | 97,000 | 21,000 | 22 | 12,000 | 10,000 | 10 |
| West Virginia | 10,000 | 10,000 | 1,100 | 11 | 200 | 1,100 | 11 |
| Wisconsin | 63,000 | 63,000 | 6,500 | 10 | 2,400 | 10,000 | 16 |
| Wyoming | 24,000 | 27,000 | 3,000 | 11 | 2,500 | 3,500 | 13 |
| Other States ⁵ | 13,660 | 13,900 | 2,080 | 15 | 320 | 900 | 6 |
| United States | 3,175,960 | (X) | 434,700 | 14 | 252,550 | 355,330 | 11 |

(X) Not applicable.

¹ July 1 colonies plus all colonies moved into that state during the quarter.

² Percent lost is the number of lost colonies divided by maximum colonies except for the United States, where percent lost is the number of lost colonies divided by the July 1 colonies.

³ Defined as any surviving colony that was requeened or received new honey bees through nuc or package.

⁴ Percent renovated is the number of renovated colonies divided by maximum colonies except for the United States, where percent renovated is the number of renovated colonies divided by the July 1 colonies.

⁵ Includes data for States not published in this table.

Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – States and United States: October 1, 2019 and October-December 2019

| State | October 1 colonies | October-December | | | | | |
|---------------------------------|--------------------|-------------------------------|---------------|---------------------------|----------------|---------------------------------|--------------------------------|
| | | Maximum colonies ¹ | Lost colonies | Percent lost ² | Added colonies | Renovated colonies ³ | Percent renovated ⁴ |
| | (number) | (number) | (number) | (percent) | (number) | (number) | (percent) |
| Alabama | 6,000 | 6,000 | 660 | 11 | 240 | 70 | 1 |
| Arizona | 34,000 | 36,000 | 7,000 | 19 | 300 | 300 | 1 |
| Arkansas | 19,000 | 19,500 | 1,600 | 8 | 430 | 310 | 2 |
| California | 700,000 | 1,300,000 | 136,000 | 10 | 160,000 | 37,000 | 3 |
| Colorado | 27,000 | 27,000 | 8,000 | 30 | 1,100 | 440 | 2 |
| Connecticut | 3,800 | 4,000 | 300 | 8 | 10 | 50 | 1 |
| Florida | 270,000 | 300,000 | 30,000 | 10 | 28,000 | 15,000 | 5 |
| Georgia | 119,000 | 131,000 | 20,000 | 15 | 10,500 | 10,500 | 8 |
| Hawaii | 17,000 | 17,000 | 1,300 | 8 | 300 | 50 | (Z) |
| Idaho | 111,000 | 196,000 | 15,500 | 8 | 1,800 | 1,000 | 1 |
| Illinois | 13,000 | 13,000 | 1,700 | 13 | 1,000 | 1,500 | 12 |
| Indiana | 17,500 | 17,500 | 1,300 | 7 | 160 | 180 | 1 |
| Iowa | 32,000 | 32,000 | 7,500 | 23 | 1,500 | 530 | 2 |
| Kansas | 4,800 | 4,900 | 650 | 13 | 190 | 460 | 9 |
| Kentucky | 8,500 | 8,500 | 410 | 5 | 190 | 170 | 2 |
| Louisiana | 41,000 | 46,000 | 2,300 | 5 | 70 | 80 | (Z) |
| Maine | 11,500 | 11,500 | 770 | 7 | 110 | 40 | (Z) |
| Maryland | 6,500 | 8,000 | 1,100 | 14 | 390 | 420 | 5 |
| Massachusetts | 5,000 | 5,000 | 1,200 | 24 | 60 | 130 | 3 |
| Michigan | 84,000 | 84,000 | 6,500 | 8 | 820 | 1,500 | 2 |
| Minnesota | 97,000 | 97,000 | 15,500 | 16 | 3,400 | 60 | (Z) |
| Mississippi | 21,000 | 29,000 | 3,400 | 12 | 350 | 50 | (Z) |
| Missouri | 9,000 | 10,000 | 1,500 | 15 | 260 | 10 | (Z) |
| Montana | 71,000 | 79,000 | 7,000 | 9 | 770 | 4,000 | 5 |
| Nebraska | 37,000 | 38,000 | 2,700 | 7 | 320 | 10 | (Z) |
| New Jersey | 15,500 | 15,500 | 220 | 1 | 60 | 80 | 1 |
| New Mexico | 6,000 | 6,000 | 70 | 1 | 30 | 10 | (Z) |
| New York | 65,000 | 65,000 | 10,000 | 15 | 630 | 510 | 1 |
| North Carolina | 17,500 | 18,000 | 3,200 | 18 | 240 | 770 | 4 |
| North Dakota | 420,000 | 420,000 | 27,000 | 6 | 3,000 | 4,300 | 1 |
| Ohio | 19,000 | 19,000 | 2,700 | 14 | 800 | 390 | 2 |
| Oklahoma | 6,500 | 37,000 | 2,500 | 7 | 460 | - | - |
| Oregon | 115,000 | 130,000 | 15,000 | 12 | 650 | 2,000 | 2 |
| Pennsylvania | 21,000 | 21,000 | 3,800 | 18 | 1,600 | 1,100 | 5 |
| South Carolina | 12,500 | 13,500 | 1,900 | 14 | 1,400 | 430 | 3 |
| South Dakota | 189,000 | 189,000 | 7,500 | 4 | - | 40 | (Z) |
| Tennessee | 11,000 | 11,000 | 1,300 | 12 | 20 | 70 | 1 |
| Texas | 129,000 | 240,000 | 17,500 | 7 | 8,000 | 1,700 | 1 |
| Utah | 30,000 | 32,000 | 4,400 | 14 | 970 | 90 | (Z) |
| Vermont | 7,000 | 7,000 | 190 | 3 | 100 | 270 | 4 |
| Virginia | 8,000 | 8,000 | 1,200 | 15 | 10 | 190 | 2 |
| Washington | 89,000 | 93,000 | 12,500 | 13 | 810 | 100 | (Z) |
| West Virginia | 7,500 | 8,000 | 1,500 | 19 | 30 | 1,600 | 20 |
| Wisconsin | 46,000 | 46,000 | 8,500 | 18 | 1,800 | 3,000 | 7 |
| Wyoming | 27,000 | 28,000 | 3,300 | 12 | 100 | 490 | 2 |
| Other States ⁵ | 11,010 | 11,510 | 1,340 | 12 | 280 | - | - |
| United States | 3,018,110 | (X) | 399,510 | 13 | 233,260 | 91,000 | 3 |

- Represents zero.

(X) Not applicable.

(Z) Less than half of the unit shown.

¹ October 1 colonies plus all colonies moved into that state during the quarter.

² Percent lost is the number of lost colonies divided by maximum colonies except for the United States, where percent lost is the number of lost colonies divided by the October 1 colonies.

³ Defined as any surviving colony that was requeened or received new honey bees through nuc or package.

⁴ Percent renovated is the number of renovated colonies divided by maximum colonies except for the United States, where percent renovated is the number of renovated colonies divided by the October 1 colonies.

⁵ Includes data for States not published in this table.

Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – States and United States: January 1, 2020 and January-March 2020

| State | January 1 colonies | January-March | | | | | |
|---------------------------------|--------------------|-------------------------------|---------------|---------------------------|----------------|---------------------------------|--------------------------------|
| | | Maximum colonies ¹ | Lost colonies | Percent lost ² | Added colonies | Renovated colonies ³ | Percent renovated ⁴ |
| | (number) | (number) | (number) | (percent) | (number) | (number) | (percent) |
| Alabama | 5,500 | 8,000 | 410 | 5 | 1,000 | 780 | 10 |
| Arizona | 29,000 | 32,000 | 6,500 | 20 | 150 | 120 | (Z) |
| Arkansas | 16,500 | 17,500 | 1,200 | 7 | 700 | 30 | (Z) |
| California | 1,350,000 | 1,710,000 | 230,000 | 13 | 240,000 | 66,000 | 4 |
| Colorado | 4,500 | 16,000 | 650 | 4 | 850 | 500 | 3 |
| Connecticut | 3,700 | 4,100 | 330 | 8 | 60 | - | - |
| Florida | 295,000 | 310,000 | 30,000 | 10 | 41,000 | 8,000 | 3 |
| Georgia | 115,000 | 121,000 | 14,500 | 12 | 32,000 | 22,000 | 18 |
| Hawaii | 16,000 | 16,000 | 1,500 | 9 | 1,000 | 2,200 | 14 |
| Idaho | 156,000 | 168,000 | 18,500 | 11 | 4,400 | 920 | 1 |
| Illinois | 11,500 | 13,000 | 2,100 | 16 | 900 | 160 | 1 |
| Indiana | 11,000 | 11,500 | 1,600 | 14 | 880 | 420 | 4 |
| Iowa | 9,000 | 21,000 | 1,600 | 8 | 1,200 | 420 | 2 |
| Kansas | 4,500 | 7,000 | 750 | 11 | 1,200 | 130 | 2 |
| Kentucky | 7,000 | 10,500 | 1,200 | 11 | 1,500 | 120 | 1 |
| Louisiana | 44,000 | 48,000 | 4,800 | 10 | 9,000 | 20,000 | 42 |
| Maine | 1,300 | 1,700 | 130 | 8 | - | - | - |
| Maryland | 7,000 | 7,500 | 640 | 9 | - | 30 | (Z) |
| Massachusetts | 3,800 | 4,000 | 350 | 9 | 600 | 100 | 3 |
| Michigan | 60,000 | 65,000 | 6,000 | 9 | 3,800 | 100 | (Z) |
| Minnesota | 21,000 | 57,000 | 1,000 | 2 | 2,000 | 40 | (Z) |
| Mississippi | 26,000 | 28,000 | 5,000 | 18 | 16,000 | 660 | 2 |
| Missouri | 8,500 | 8,500 | 2,100 | 25 | 30 | (Z) | (Z) |
| Montana | 18,000 | 48,000 | 150 | (Z) | - | - | - |
| Nebraska | 9,000 | 17,000 | 670 | 4 | 70 | - | - |
| New Jersey | 6,500 | 7,000 | 250 | 4 | 110 | 40 | 1 |
| New Mexico | 6,000 | 6,000 | 40 | 1 | 120 | (Z) | (Z) |
| New York | 29,000 | 36,000 | 3,700 | 10 | 230 | 370 | 1 |
| North Carolina | 15,000 | 23,000 | 2,200 | 10 | 3,000 | 490 | 2 |
| North Dakota | 53,000 | 82,000 | 4,500 | 5 | 2,500 | - | - |
| Ohio | 15,500 | 20,000 | 5,500 | 28 | 840 | 1,100 | 6 |
| Oklahoma | 19,500 | 19,500 | 700 | 4 | 5,000 | - | - |
| Oregon | 97,000 | 108,000 | 4,800 | 4 | 9,000 | 1,700 | 2 |
| Pennsylvania | 18,500 | 24,000 | 1,000 | 4 | 1,100 | 320 | 1 |
| South Carolina | 13,000 | 16,500 | 800 | 5 | 3,500 | 1,100 | 7 |
| South Dakota | 20,000 | 20,000 | 1,200 | 6 | 20 | - | - |
| Tennessee | 8,000 | 14,000 | 1,500 | 11 | 1,000 | 130 | 1 |
| Texas | 235,000 | 340,000 | 35,000 | 10 | 83,000 | 24,000 | 7 |
| Utah | 12,000 | 17,000 | 400 | 2 | 4,200 | - | - |
| Vermont | 6,500 | 7,500 | 520 | 7 | - | 70 | 1 |
| Virginia | 6,000 | 7,000 | 1,100 | 16 | 1,600 | 60 | 1 |
| Washington | 49,000 | 74,000 | 1,500 | 2 | 580 | 150 | (Z) |
| West Virginia | 6,000 | 8,000 | 1,100 | 14 | 450 | 680 | 9 |
| Wisconsin | 16,000 | 26,000 | 1,500 | 6 | 2,000 | 370 | 1 |
| Wyoming | 4,000 | 17,000 | 140 | 1 | 450 | 60 | (Z) |
| Other States ⁵ | 7,800 | 8,200 | 440 | 5 | 160 | 20 | (Z) |
| United States | 2,876,100 | (X) | 399,570 | 14 | 477,200 | 153,390 | 5 |

- Represents zero.

(X) Not applicable.

(Z) Less than half of the unit shown.

¹ January 1 colonies plus all colonies moved into that state during the quarter.

² Percent lost is the number of lost colonies divided by maximum colonies except for the United States, where percent lost is the number of lost colonies divided by the January 1 colonies.

³ Defined as any surviving colony that was requeened or received new honey bees through nuc or package.

⁴ Percent renovated is the number of renovated colonies divided by maximum colonies except for the United States, where percent renovated is the number of renovated colonies divided by the January 1 colonies.

⁵ Includes data for States not published in this table.

Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – States and United States: April 1, 2020 and April-June 2020

| State | April 1 colonies | April-June | | | | | |
|---------------------------------|------------------|-------------------------------|---------------|---------------------------|----------------|---------------------------------|--------------------------------|
| | | Maximum colonies ¹ | Lost colonies | Percent lost ² | Added colonies | Renovated colonies ³ | Percent renovated ⁴ |
| | (number) | (number) | (number) | (percent) | (number) | (number) | (percent) |
| Alabama | 8,500 | 8,500 | 4,100 | 48 | 4,700 | 2,620 | 31 |
| Arizona | 26,000 | 26,000 | 1,300 | 5 | 14,000 | 4,700 | 18 |
| Arkansas | 17,000 | 17,000 | 1,900 | 11 | 5,000 | 800 | 5 |
| California | 1,200,000 | 1,200,000 | 74,000 | 6 | 184,000 | 240,000 | 20 |
| Colorado | 16,500 | 27,000 | 2,100 | 8 | 6,000 | 2,800 | 10 |
| Connecticut | 3,900 | 4,300 | 30 | 1 | 1,200 | 480 | 11 |
| Florida | 325,000 | 325,000 | 39,000 | 12 | 36,000 | 23,000 | 7 |
| Georgia | 141,000 | 143,000 | 10,000 | 7 | 19,500 | 19,000 | 13 |
| Hawaii | 15,500 | 15,500 | 40 | (Z) | 240 | 2,300 | 15 |
| Idaho | 48,000 | 81,000 | 14,500 | 18 | 32,000 | 29,000 | 36 |
| Illinois | 12,000 | 12,000 | 1,500 | 13 | 4,200 | 1,700 | 14 |
| Indiana | 11,000 | 12,000 | 920 | 8 | 4,300 | 3,200 | 27 |
| Iowa | 21,000 | 29,000 | 3,600 | 12 | 14,500 | 4,700 | 16 |
| Kansas | 7,500 | 8,000 | 440 | 6 | 1,800 | 1,800 | 23 |
| Kentucky | 11,000 | 11,000 | 1,200 | 11 | 4,200 | 3,500 | 32 |
| Louisiana | 53,000 | 53,000 | 1,800 | 3 | 2,200 | 4,700 | 9 |
| Maine | 1,600 | 22,000 | 1,300 | 6 | 520 | 110 | 1 |
| Maryland | 7,000 | 8,000 | 680 | 9 | 4,500 | 1,700 | 21 |
| Massachusetts | 4,300 | 13,500 | 740 | 5 | 980 | 590 | 4 |
| Michigan | 64,000 | 79,000 | 2,600 | 3 | 9,500 | 10,000 | 13 |
| Minnesota | 59,000 | 126,000 | 6,500 | 5 | 20,000 | 2,600 | 2 |
| Mississippi | 34,000 | 37,000 | 3,000 | 8 | 3,700 | 570 | 2 |
| Missouri | 6,500 | 6,500 | 390 | 6 | 2,900 | 1,200 | 18 |
| Montana | 48,000 | 120,000 | 3,800 | 3 | 14,000 | 16,500 | 14 |
| Nebraska | 16,500 | 39,000 | 1,800 | 5 | 7,000 | 1,100 | 3 |
| New Jersey | 7,000 | 20,000 | 760 | 4 | 1,600 | 720 | 4 |
| New Mexico | 3,100 | 6,000 | 50 | 1 | 250 | 60 | 1 |
| New York | 33,000 | 56,000 | 4,900 | 9 | 6,500 | 3,300 | 6 |
| North Carolina | 24,000 | 25,000 | 1,600 | 6 | 6,000 | 1,300 | 5 |
| North Dakota | 67,000 | 395,000 | 17,500 | 4 | 29,000 | 37,000 | 9 |
| Ohio | 15,500 | 16,500 | 1,700 | 10 | 9,500 | 3,700 | 22 |
| Oklahoma | 16,000 | 16,000 | 1,500 | 9 | 6,000 | 3,100 | 19 |
| Oregon | 89,000 | 95,000 | 2,500 | 3 | 10,500 | 19,000 | 20 |
| Pennsylvania | 24,000 | 27,000 | 1,000 | 4 | 6,000 | 1,700 | 6 |
| South Carolina | 19,500 | 20,000 | 1,700 | 9 | 2,700 | 2,500 | 13 |
| South Dakota | 9,500 | 205,000 | 4,600 | 2 | 8,500 | 14,500 | 7 |
| Tennessee | 13,500 | 13,500 | 1,200 | 9 | 4,200 | 3,200 | 24 |
| Texas | 360,000 | 385,000 | 25,000 | 6 | 75,000 | 136,000 | 35 |
| Utah | 21,000 | 31,000 | 2,700 | 9 | 7,000 | 13,500 | 44 |
| Vermont | 7,000 | 7,000 | 260 | 4 | 700 | 130 | 2 |
| Virginia | 7,500 | 8,000 | 1,200 | 15 | 4,800 | 1,300 | 16 |
| Washington | 50,000 | 114,000 | 3,100 | 3 | 5,000 | 3,300 | 3 |
| West Virginia | 7,500 | 7,500 | 570 | 8 | 1,600 | 1,500 | 20 |
| Wisconsin | 27,000 | 53,000 | 1,700 | 3 | 11,500 | 4,600 | 9 |
| Wyoming | 17,500 | 24,000 | 1,600 | 7 | 2,300 | 2,100 | 9 |
| Other States ⁵ | 6,500 | 7,440 | 250 | 3 | 1,270 | 1,500 | 20 |
| United States | 2,982,900 | (X) | 252,630 | 8 | 596,860 | 632,680 | 21 |

(X) Not applicable.

(Z) Less than half of the unit shown.

¹ April 1 number of colonies plus all colonies moved into that state during the quarter.

² Percent lost is the number of lost colonies divided by maximum colonies except for the United States, where percent lost is the number of lost colonies divided by the April 1 number of colonies.

³ Defined as any surviving colony that was requeened or received new honey bees through nuc or package.

⁴ Percent renovated is the number of renovated colonies divided by maximum colonies except for the United States, where percent renovated is the number of renovated colonies divided by the April 1 number of colonies.

⁵ Includes data for States not published in this table.

Colony Health Stressors with Five or More Colonies – States and United States: January-March 2019

[Percent of colonies affected by stressors anytime during the quarter. A colony may be affected by multiple stressors during the quarter]

| State | Varroa mites | Other pests and parasites ¹ | Diseases ² | Pesticides | Other ³ | Unknown |
|---------------------------------|--------------|--|-----------------------|------------|--------------------|-----------|
| | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Alabama | 27.2 | 22.7 | 1.8 | 0.3 | 3.1 | 9.0 |
| Arizona | 25.8 | 7.9 | 6.5 | 16.2 | 8.4 | 0.2 |
| Arkansas | 19.5 | 1.5 | 3.3 | 55.3 | 0.7 | 2.9 |
| California | 43.5 | 13.4 | 6.4 | 12.3 | 8.7 | 5.6 |
| Colorado | 11.2 | 0.3 | - | - | 2.5 | 0.6 |
| Connecticut | 10.1 | 1.3 | - | - | 3.6 | 1.7 |
| Florida | 46.9 | 24.8 | 5.5 | 22.9 | 7.4 | 5.5 |
| Georgia | 69.6 | 17.8 | 7.4 | 9.6 | 10.6 | 4.9 |
| Hawaii | 72.1 | 64.9 | 0.1 | 0.7 | 2.9 | - |
| Idaho | 24.5 | 8.0 | 8.0 | 9.2 | 8.6 | (Z) |
| Illinois | 33.3 | 14.7 | 3.1 | 0.7 | 15.5 | 10.1 |
| Indiana | 15.6 | 8.8 | 2.6 | 5.5 | 7.1 | 1.7 |
| Iowa | 34.8 | 1.7 | 0.6 | 0.3 | 7.7 | 3.5 |
| Kansas | 86.9 | 7.8 | 2.5 | 12.2 | 21.6 | 4.0 |
| Kentucky | 21.6 | 12.9 | 0.1 | 5.3 | 10.7 | 4.6 |
| Louisiana | 57.8 | 1.3 | 0.1 | 0.3 | 1.0 | 0.7 |
| Maine | 2.3 | 0.1 | - | - | 1.4 | 0.8 |
| Maryland | 12.6 | 5.1 | 0.2 | (Z) | 10.1 | 2.4 |
| Massachusetts | 10.3 | - | - | 4.3 | 6.3 | 0.9 |
| Michigan | 18.2 | 5.8 | 1.5 | 0.2 | 12.2 | 0.7 |
| Minnesota | 1.3 | 0.2 | 1.9 | - | 2.0 | 0.8 |
| Mississippi | 14.6 | 71.0 | 64.8 | 48.4 | 1.9 | 5.5 |
| Missouri | 5.4 | 2.3 | 1.9 | 0.5 | 5.4 | 3.2 |
| Montana | 15.1 | (Z) | - | 0.8 | 0.8 | 1.1 |
| Nebraska | 32.3 | 1.3 | 32.0 | 0.8 | 2.2 | 0.1 |
| New Jersey | 15.3 | 4.4 | - | - | 3.5 | 0.6 |
| New Mexico | 3.5 | 1.1 | 0.6 | - | 1.4 | 0.3 |
| New York | 10.6 | 2.5 | 1.7 | 1.7 | 7.7 | 9.0 |
| North Carolina | 16.4 | 2.0 | 0.2 | 0.7 | 2.2 | 3.4 |
| North Dakota | 6.9 | - | - | 6.5 | 0.4 | 1.3 |
| Ohio | 49.3 | 9.9 | 11.1 | 1.1 | 6.7 | 3.1 |
| Oklahoma | 7.7 | 0.3 | - | - | (Z) | (Z) |
| Oregon | 18.0 | 0.1 | 0.2 | 0.2 | 2.7 | 0.5 |
| Pennsylvania | 15.3 | 4.6 | 3.7 | 4.0 | 7.5 | 9.5 |
| South Carolina | 18.5 | 14.5 | (Z) | 1.7 | 12.4 | 1.0 |
| South Dakota | 0.8 | (Z) | - | 2.5 | 0.8 | 2.2 |
| Tennessee | 62.8 | 23.6 | 5.1 | 0.9 | 7.7 | 7.1 |
| Texas | 26.1 | 6.5 | 5.3 | 8.3 | 6.9 | 3.0 |
| Utah | 22.9 | - | 0.1 | - | 0.3 | 8.8 |
| Vermont | 6.2 | 0.1 | 2.4 | - | 0.2 | 1.2 |
| Virginia | 16.6 | 12.8 | 0.8 | 0.3 | 3.9 | 9.3 |
| Washington | 22.3 | 0.8 | 0.6 | 0.3 | 0.8 | 0.2 |
| West Virginia | 10.3 | 3.2 | 1.1 | 0.2 | 5.0 | 1.3 |
| Wisconsin | 15.9 | 3.2 | 0.7 | 1.1 | 13.8 | 5.0 |
| Wyoming | 0.7 | - | 0.1 | - | 0.5 | 2.3 |
| Other States ⁴ | 6.9 | 1.8 | 0.3 | - | 2.1 | 1.6 |
| United States | 45.6 | 14.8 | 7.1 | 13.6 | 9.0 | 5.2 |

- Represents zero.

(Z) Less than half of the unit shown.

¹ Tracheal mites, nosema, hive beetle, wax moths, etc.

² Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc.

³ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc.

⁴ Includes data for States not published in this table.

Colony Health Stressors with Five or More Colonies – States and United States: April-June 2019 ⁵

[Percent of colonies affected by stressors anytime during the quarter. A colony may be affected by multiple stressors during the quarter]

| State | Varroa mites | Other pests and parasites ¹ | Diseases ² | Pesticides | Other ³ | Unknown |
|---------------------------------|--------------|--|-----------------------|------------|--------------------|-----------|
| | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Alabama | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Arizona | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Arkansas | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| California | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Colorado | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Connecticut | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Florida | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Georgia | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Hawaii | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Idaho | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Illinois | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Indiana | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Iowa | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Kansas | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Kentucky | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Louisiana | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Maine | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Maryland | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Massachusetts | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Michigan | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Minnesota | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Mississippi | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Missouri | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Montana | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Nebraska | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| New Jersey | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| New Mexico | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| New York | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| North Carolina | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| North Dakota | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Ohio | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Oklahoma | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Oregon | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Pennsylvania | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| South Carolina | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| South Dakota | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Tennessee | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Texas | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Utah | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Vermont | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Virginia | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Washington | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| West Virginia | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Wisconsin | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Wyoming | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Other States ⁴ | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| United States | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |

(NA) Not available.

¹ Tracheal mites, nosema, hive beetle, wax moths, etc.

² Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc.

³ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc.

⁴ Includes data for States not published in this table.

⁵ Data collection for July 2019 quarterly honey bee colonies was suspended.

Colony Health Stressors with Five or More Colonies – States and United States: July-September 2019

[Percent of colonies affected by stressors anytime during the quarter. A colony may be affected by multiple stressors during the quarter]

| State | Varroa mites | Other pests and parasites ¹ | Diseases ² | Pesticides | Other ³ | Unknown |
|---------------------------------|--------------|--|-----------------------|------------|--------------------|-----------|
| | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Alabama | 30.6 | 24.6 | 2.9 | 0.2 | 9.7 | 6.4 |
| Arizona | 29.0 | 9.9 | 2.7 | 11.4 | 13.2 | 0.6 |
| Arkansas | 53.2 | 19.7 | 6.8 | 50.5 | 6.9 | 39.3 |
| California | 49.0 | 11.5 | 8.7 | 16.0 | 11.1 | 3.2 |
| Colorado | 79.8 | 12.5 | 4.8 | 10.2 | 9.4 | 1.0 |
| Connecticut | 24.3 | 6.9 | 2.4 | - | 3.9 | 0.5 |
| Florida | 44.9 | 20.7 | 6.3 | 18.2 | 11.7 | 10.8 |
| Georgia | 52.5 | 18.6 | 1.6 | 25.8 | 17.1 | 4.6 |
| Hawaii | 37.2 | 39.0 | 0.3 | - | 1.3 | 0.2 |
| Idaho | 59.9 | 15.4 | 21.7 | 9.9 | 18.5 | 0.8 |
| Illinois | 35.9 | 8.3 | 0.7 | 2.5 | 5.5 | 11.5 |
| Indiana | 55.7 | 15.2 | 3.0 | 23.1 | 19.2 | 1.4 |
| Iowa | 39.4 | 7.1 | 5.8 | 26.3 | 27.8 | 3.6 |
| Kansas | 67.5 | 33.8 | 21.8 | 23.9 | 1.2 | 0.5 |
| Kentucky | 29.2 | 17.6 | 0.4 | 5.2 | 7.9 | 8.6 |
| Louisiana | 67.1 | 66.8 | 0.4 | 57.0 | 2.5 | 2.7 |
| Maine | 10.1 | 0.7 | 0.1 | - | 0.2 | 0.1 |
| Maryland | 26.7 | 2.7 | - | 0.3 | 5.1 | 1.4 |
| Massachusetts | 13.0 | 2.9 | 0.2 | (Z) | 0.7 | 7.3 |
| Michigan | 42.7 | 16.4 | 8.7 | 7.3 | 2.1 | 1.5 |
| Minnesota | 54.9 | 8.2 | 4.0 | 13.4 | 6.6 | 2.1 |
| Mississippi | 59.1 | 45.6 | 2.4 | 25.4 | 4.0 | 5.1 |
| Missouri | 18.4 | 7.1 | 0.4 | 0.8 | 2.1 | 0.6 |
| Montana | 28.0 | 10.0 | 10.6 | 6.1 | 4.1 | 1.0 |
| Nebraska | 29.2 | 2.7 | 1.8 | 2.8 | 7.2 | 1.9 |
| New Jersey | 26.1 | 2.3 | 0.3 | 0.2 | 0.5 | 0.1 |
| New Mexico | 39.5 | 29.1 | 0.9 | - | 0.8 | - |
| New York | 30.7 | 11.5 | 1.2 | 8.2 | 2.5 | 3.8 |
| North Carolina | 26.9 | 11.3 | 19.7 | 4.0 | 9.7 | 5.7 |
| North Dakota | 48.4 | 10.2 | 14.7 | 9.0 | 23.7 | 9.3 |
| Ohio | 40.6 | 23.0 | 4.2 | 1.8 | 5.9 | 3.9 |
| Oklahoma | 29.0 | 1.4 | 0.1 | 0.1 | 4.1 | 4.4 |
| Oregon | 35.4 | 12.8 | 19.8 | 15.1 | 16.6 | 0.4 |
| Pennsylvania | 23.4 | 8.8 | 1.8 | 5.0 | 1.5 | 5.6 |
| South Carolina | 44.9 | 11.6 | 0.6 | 16.2 | 19.6 | 3.7 |
| South Dakota | 10.4 | 3.5 | 0.3 | 14.0 | 4.0 | 1.5 |
| Tennessee | 51.4 | 23.3 | 0.2 | 9.1 | 11.5 | 1.5 |
| Texas | 21.9 | 18.3 | 4.4 | 11.5 | 7.2 | 2.1 |
| Utah | 29.4 | 4.9 | 5.5 | 0.2 | 0.6 | 4.6 |
| Vermont | 22.2 | 4.3 | 0.7 | - | 0.5 | 0.1 |
| Virginia | 37.9 | 18.3 | 0.9 | 1.3 | 2.7 | 3.1 |
| Washington | 47.3 | 0.9 | 2.5 | 4.6 | 9.4 | 0.3 |
| West Virginia | 33.7 | 10.7 | 0.7 | 2.7 | 6.9 | 0.3 |
| Wisconsin | 46.4 | 20.5 | 13.9 | 18.1 | 6.5 | 3.9 |
| Wyoming | 45.7 | 0.4 | 3.3 | 2.2 | 6.3 | 2.5 |
| Other States ⁴ | 11.3 | 4.5 | 4.2 | 7.7 | 1.4 | 0.1 |
| United States | 44.1 | 13.4 | 8.5 | 13.6 | 11.9 | 4.5 |

- Represents zero.

(Z) Less than half of the unit shown.

¹ Tracheal mites, nosema, hive beetle, wax moths, etc.

² Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc.

³ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc.

⁴ Includes data for States not published in this table.

Colony Health Stressors with Five or More Colonies – States and United States: October-December 2019

[Percent of colonies affected by stressors anytime during the quarter. A colony may be affected by multiple stressors during the quarter]

| State | Varroa mites | Other pests and parasites ¹ | Diseases ² | Pesticides | Other ³ | Unknown |
|---------------------------------|--------------|--|-----------------------|------------|--------------------|-----------|
| | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Alabama | 46.7 | 26.7 | 0.6 | 4.9 | 9.0 | 11.3 |
| Arizona | 53.9 | 1.5 | 0.4 | 23.3 | 4.0 | 2.9 |
| Arkansas | 47.7 | 39.7 | 1.4 | 7.8 | 12.5 | 32.8 |
| California | 40.5 | 10.9 | 5.2 | 11.3 | 8.0 | 5.0 |
| Colorado | 67.7 | 1.5 | - | 15.3 | 2.6 | 0.8 |
| Connecticut | 22.2 | 11.1 | 2.4 | - | 1.7 | 1.6 |
| Florida | 43.5 | 25.6 | 7.8 | 11.7 | 7.8 | 4.8 |
| Georgia | 34.3 | 18.2 | 5.6 | 9.1 | 2.6 | 4.4 |
| Hawaii | 44.0 | 61.8 | 0.2 | 1.0 | 0.1 | - |
| Idaho | 20.3 | 4.3 | 5.4 | 10.5 | 9.9 | 1.1 |
| Illinois | 28.9 | 27.3 | 1.1 | 3.4 | 8.9 | 8.9 |
| Indiana | 20.7 | 15.0 | 2.6 | 6.7 | 1.6 | 0.6 |
| Iowa | 61.0 | 17.8 | 5.6 | 25.2 | 19.7 | 4.2 |
| Kansas | 65.8 | 15.0 | 11.9 | 43.4 | 0.4 | 14.4 |
| Kentucky | 33.0 | 20.1 | 0.2 | 5.3 | 12.0 | 9.9 |
| Louisiana | 33.0 | 18.5 | 3.5 | 0.7 | 6.1 | 0.9 |
| Maine | 20.5 | - | 0.1 | 2.5 | 0.3 | 0.2 |
| Maryland | 12.6 | 4.5 | 1.8 | - | 0.3 | 5.0 |
| Massachusetts | 7.6 | 0.2 | 0.8 | - | 1.1 | 10.7 |
| Michigan | 37.0 | 9.7 | 9.2 | 8.3 | 1.1 | 3.8 |
| Minnesota | 37.3 | 7.8 | 1.2 | 6.1 | 1.8 | 4.0 |
| Mississippi | 41.0 | 38.0 | 4.1 | 13.9 | 10.5 | 5.2 |
| Missouri | 19.2 | 5.9 | 0.2 | 0.1 | 1.5 | 0.4 |
| Montana | 15.7 | 1.8 | (Z) | 0.8 | 2.8 | 0.3 |
| Nebraska | 5.8 | 1.0 | - | 3.5 | 2.8 | 6.4 |
| New Jersey | 2.5 | 0.9 | - | - | 1.3 | 0.5 |
| New Mexico | 5.2 | 0.3 | 0.4 | - | 2.6 | - |
| New York | 33.3 | 24.8 | 3.0 | 8.7 | 3.2 | 4.0 |
| North Carolina | 44.5 | 21.0 | 4.5 | 2.4 | 15.7 | 11.7 |
| North Dakota | 43.0 | 7.1 | 1.8 | 3.7 | 2.0 | 1.7 |
| Ohio | 33.2 | 5.6 | 0.4 | 0.6 | 3.3 | 7.6 |
| Oklahoma | 1.0 | 0.4 | - | 0.4 | 0.4 | 0.1 |
| Oregon | 35.8 | 2.1 | 4.7 | 1.8 | 16.6 | 16.0 |
| Pennsylvania | 33.2 | 4.6 | 1.0 | 3.2 | 2.3 | 2.9 |
| South Carolina | 56.7 | 18.4 | 1.7 | 3.5 | 13.1 | 6.3 |
| South Dakota | 12.2 | 6.1 | 3.2 | 5.6 | 11.2 | 1.5 |
| Tennessee | 66.6 | 53.5 | - | 33.6 | 7.6 | 9.1 |
| Texas | 23.1 | 14.0 | 4.6 | 4.9 | 5.8 | 1.4 |
| Utah | 22.1 | 2.0 | 2.0 | 10.3 | 0.2 | 0.3 |
| Vermont | 21.0 | 1.3 | 0.6 | 0.8 | 0.6 | 0.9 |
| Virginia | 37.7 | 18.6 | 0.4 | - | 5.3 | 6.0 |
| Washington | 40.3 | 2.3 | 0.6 | 19.6 | 2.9 | 3.2 |
| West Virginia | 65.8 | 10.7 | 1.1 | 0.4 | 6.1 | 2.2 |
| Wisconsin | 40.0 | 22.1 | 14.8 | 14.1 | 22.0 | 7.3 |
| Wyoming | 27.6 | 12.3 | 3.2 | - | 4.3 | 13.2 |
| Other States ⁴ | 13.6 | 2.3 | 0.3 | 0.3 | 32.4 | 0.9 |
| United States | 45.7 | 15.0 | 5.4 | 10.9 | 8.6 | 5.3 |

- Represents zero.

(Z) Less than half of the unit shown.

¹ Tracheal mites, nosema, hive beetle, wax moths, etc.

² Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc.

³ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc.

⁴ Includes data for States not published in this table.

Colony Health Stressors with Five or More Colonies – States and United States: January-March 2020

[Percent of colonies affected by stressors anytime during the quarter. A colony may be affected by multiple stressors during the quarter]

| State | Varroa mites | Other pests and parasites ¹ | Diseases ² | Pesticides | Other ³ | Unknown |
|---------------------------------|--------------|--|-----------------------|------------|--------------------|-----------|
| | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Alabama | 12.4 | 3.4 | (Z) | 0.1 | 1.7 | 4.3 |
| Arizona | 31.7 | 0.1 | 0.1 | - | 10.1 | 9.0 |
| Arkansas | 31.7 | 22.7 | 0.2 | 2.6 | 0.4 | 11.2 |
| California | 22.4 | 6.0 | 5.0 | 5.3 | 5.3 | 4.2 |
| Colorado | 20.8 | (Z) | 0.1 | 0.4 | 10.8 | 2.4 |
| Connecticut | 11.2 | 2.9 | 0.4 | - | 2.8 | 3.0 |
| Florida | 28.0 | 14.2 | 5.5 | 5.3 | 8.7 | 10.9 |
| Georgia | 50.9 | 3.4 | 0.2 | 0.3 | 0.4 | 7.5 |
| Hawaii | 75.3 | 60.8 | 0.1 | - | 0.2 | 0.2 |
| Idaho | 10.4 | 0.8 | 0.1 | 2.8 | 2.1 | 1.9 |
| Illinois | 17.2 | 8.9 | 0.2 | (Z) | 7.3 | 10.0 |
| Indiana | 8.2 | 0.5 | 0.1 | 2.9 | 1.9 | 6.2 |
| Iowa | 22.3 | 1.9 | - | 0.2 | 5.7 | 5.5 |
| Kansas | 13.3 | 8.1 | 7.8 | 7.8 | 3.1 | 11.3 |
| Kentucky | 17.4 | 2.6 | 2.0 | 0.3 | 7.6 | 6.5 |
| Louisiana | 26.5 | 7.0 | 0.7 | 1.2 | 1.4 | 0.6 |
| Maine | 19.6 | 1.2 | 0.7 | - | 2.2 | 3.0 |
| Maryland | 19.9 | 1.5 | 0.1 | - | 8.5 | 2.4 |
| Massachusetts | 13.9 | 0.5 | 1.8 | 0.3 | 4.5 | 2.2 |
| Michigan | 8.1 | 0.5 | 0.2 | 0.2 | 0.4 | 0.7 |
| Minnesota | 3.5 | - | (Z) | 0.2 | 4.3 | 0.3 |
| Mississippi | 58.6 | 50.9 | 0.3 | 1.8 | 14.5 | 3.6 |
| Missouri | 8.4 | 3.4 | 0.9 | 1.6 | 2.1 | 3.4 |
| Montana | 4.0 | - | - | - | 0.5 | (Z) |
| Nebraska | 2.2 | 0.1 | 0.1 | - | 0.3 | 0.8 |
| New Jersey | 9.4 | 2.9 | 0.5 | 0.1 | 3.2 | 2.3 |
| New Mexico | 2.1 | - | - | - | 0.7 | 0.2 |
| New York | 6.6 | 2.9 | (Z) | - | 1.7 | 7.7 |
| North Carolina | 35.7 | 7.1 | 4.8 | 0.6 | 1.4 | 5.1 |
| North Dakota | 0.6 | - | - | - | 3.1 | - |
| Ohio | 17.6 | 3.6 | 1.1 | 0.1 | 3.0 | 13.4 |
| Oklahoma | 11.4 | 0.6 | 0.4 | 0.5 | 0.4 | 0.3 |
| Oregon | 24.4 | 10.4 | 10.8 | 14.5 | 1.3 | 0.3 |
| Pennsylvania | 15.5 | 3.9 | 2.8 | 1.8 | 2.7 | 3.2 |
| South Carolina | 15.5 | 11.5 | 9.6 | 0.3 | 6.4 | 5.4 |
| South Dakota | 14.7 | 0.1 | - | 2.1 | 0.3 | 0.3 |
| Tennessee | 18.9 | 17.3 | 1.0 | - | 4.1 | 7.8 |
| Texas | 12.2 | 6.8 | 1.3 | 3.4 | 5.2 | 4.6 |
| Utah | 38.9 | 17.2 | 17.1 | 2.3 | 15.7 | 22.4 |
| Vermont | 9.1 | 0.8 | 0.6 | 0.9 | 2.0 | 3.1 |
| Virginia | 17.5 | 10.6 | 0.3 | 0.3 | 3.8 | 3.5 |
| Washington | 1.7 | 0.1 | 0.1 | 0.5 | 0.2 | 0.3 |
| West Virginia | 17.3 | 7.0 | 1.3 | 0.6 | 2.6 | 0.3 |
| Wisconsin | 9.0 | 1.9 | 0.4 | (Z) | 2.7 | 3.1 |
| Wyoming | 0.2 | 0.1 | 0.1 | - | 0.8 | 1.7 |
| Other States ⁴ | 5.5 | - | (Z) | (Z) | 0.7 | 0.4 |
| United States | 25.5 | 8.0 | 4.4 | 5.0 | 5.6 | 5.4 |

- Represents zero.

(Z) Less than half of the unit shown.

¹ Tracheal mites, nosema, hive beetle, wax moths, etc.

² Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc.

³ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc.

⁴ Includes data for States not published in this table.

Colony Health Stressors with Five or More Colonies – States and United States: April-June 2020

[Percent of colonies affected by stressors anytime during the quarter. A colony may be affected by multiple stressors during the quarter]

| State | Varroa mites | Other pests and parasites ¹ | Diseases ² | Pesticides | Other ³ | Unknown |
|---------------------------------|--------------|--|-----------------------|------------|--------------------|-----------|
| | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Alabama | 28.5 | 18.0 | 1.6 | 7.7 | 7.9 | 9.5 |
| Arizona | 22.1 | (Z) | (Z) | 4.2 | 5.5 | 0.6 |
| Arkansas | 40.5 | 15.3 | 5.1 | 24.6 | 2.1 | 12.4 |
| California | 33.4 | 4.7 | 3.9 | 5.4 | 7.5 | 3.0 |
| Colorado | 35.4 | 0.1 | 0.1 | - | 0.5 | 2.5 |
| Connecticut | 14.8 | 2.1 | (Z) | - | 0.1 | 0.6 |
| Florida | 31.4 | 15.2 | 3.2 | 5.5 | 5.5 | 7.5 |
| Georgia | 49.2 | 20.2 | 7.1 | 3.0 | 8.1 | 13.8 |
| Hawaii | 43.1 | 41.1 | 1.0 | - | 1.1 | - |
| Idaho | 44.2 | 10.9 | 11.1 | 8.6 | 6.9 | 5.8 |
| Illinois | 23.5 | 8.2 | 1.0 | 8.3 | 11.9 | 4.0 |
| Indiana | 26.8 | 12.5 | 1.8 | 20.2 | 5.4 | 1.5 |
| Iowa | 30.4 | 24.6 | 16.5 | 0.8 | 3.5 | 0.5 |
| Kansas | 68.4 | 34.1 | 24.0 | 32.8 | 28.9 | 14.3 |
| Kentucky | 18.3 | 10.9 | 0.2 | 1.2 | 2.9 | 3.2 |
| Louisiana | 23.7 | 4.7 | 0.5 | 0.1 | 3.5 | 1.3 |
| Maine | 12.1 | 0.2 | 6.9 | - | 0.5 | - |
| Maryland | 12.0 | 1.1 | 0.1 | 1.1 | 3.2 | 0.5 |
| Massachusetts | 14.7 | 2.1 | 0.3 | 0.4 | 1.1 | 0.4 |
| Michigan | 38.0 | 11.5 | 2.2 | 6.0 | 3.2 | 1.1 |
| Minnesota | 20.6 | 2.9 | 0.7 | 8.8 | 4.4 | 0.4 |
| Mississippi | 51.2 | 36.8 | - | 0.9 | 8.4 | 0.2 |
| Missouri | 17.4 | 1.5 | 5.7 | 3.1 | 11.2 | 1.9 |
| Montana | 12.1 | 5.6 | 5.9 | - | 4.6 | 0.3 |
| Nebraska | 15.8 | 1.0 | 4.4 | 10.9 | 0.1 | 2.6 |
| New Jersey | 7.2 | 0.8 | 22.1 | 0.1 | 22.3 | 0.1 |
| New Mexico | 3.0 | 0.4 | 0.3 | 0.4 | 0.4 | 0.1 |
| New York | 21.2 | 2.6 | 0.6 | 0.2 | 3.6 | 0.6 |
| North Carolina | 23.0 | 5.5 | 1.9 | - | 1.8 | 1.4 |
| North Dakota | 25.7 | 1.7 | 2.6 | 3.0 | 2.9 | 1.5 |
| Ohio | 23.8 | 12.0 | 6.2 | 5.8 | 7.3 | 13.3 |
| Oklahoma | 14.8 | 3.9 | 0.4 | 0.9 | 18.1 | 5.1 |
| Oregon | 28.0 | 1.7 | 7.5 | 2.2 | 5.9 | 0.7 |
| Pennsylvania | 27.3 | 2.7 | 1.4 | 0.3 | 3.4 | 1.3 |
| South Carolina | 27.4 | 5.8 | 0.5 | (Z) | 5.3 | 0.4 |
| South Dakota | 53.4 | 31.4 | 4.8 | 0.4 | 37.5 | 5.3 |
| Tennessee | 31.2 | 7.8 | 0.2 | 6.8 | 3.3 | 3.0 |
| Texas | 30.2 | 7.7 | 3.3 | 4.6 | 5.7 | 5.8 |
| Utah | 38.4 | - | 0.3 | 13.1 | 0.1 | 7.7 |
| Vermont | 10.7 | 0.5 | 0.1 | - | 1.1 | - |
| Virginia | 33.7 | 7.9 | 0.3 | 0.4 | 7.9 | 1.1 |
| Washington | 10.6 | (Z) | 0.7 | 1.0 | 1.3 | 0.4 |
| West Virginia | 46.2 | 1.8 | 0.7 | 0.5 | 2.8 | 1.9 |
| Wisconsin | 46.1 | 27.3 | 25.0 | 25.1 | 25.8 | 26.1 |
| Wyoming | 28.8 | (Z) | 0.1 | 1.1 | 3.5 | 1.2 |
| Other States ⁴ | 16.8 | 1.1 | 0.7 | - | 0.3 | 0.3 |
| United States | 42.3 | 12.2 | 5.5 | 6.1 | 10.8 | 5.2 |

- Represents zero.

(Z) Less than half of the unit shown.

¹ Tracheal mites, noseema, hive beetle, wax moths, etc.

² Includes American and European foulbrood, chalkbrood, stonebrood, paralysis (acute and chronic), kashmir, deformed wing, sacbrood, IAPV, Lake Sinai II, etc.

³ Includes weather, starvation, insufficient forage, queen failure, hive damage/destroyed, etc.

⁴ Includes data for States not published in this table.

Colonies Lost with Colony Collapse Disorder Symptoms with Five or More Colonies – United States: 2019 and 2020

[Loss reported that met all of the following criteria: 1) Little to no build-up of dead bees in the hive or at the hive entrance 2) Rapid loss of adult honey bee population despite the presence of queen, capped brood, and food reserves 3) Absence or delayed robbing of the food reserves 4) Loss not attributable to varroa or nosema loads. Blank cells indicate estimation period has not yet begun]

| Year | January-March (number) | April-June (number) | July-September (number) | October-December (number) |
|------------|---------------------------|------------------------|----------------------------|------------------------------|
| 2019 | 59,940 | (NA) | 67,240 | 83,710 |
| 2020 | 105,240 | 55,830 | | |

(NA) Not available.

Terms and Definitions of Honey Bee Colony Estimates

Added colonies: A new or replacement, surviving colony that was either created or purchased whole by an operation.

Colony: A hive containing a queen honey bee and attendant worker bees and/or drone bees.

Colony Collapse Disorder (CCD) criteria: Colonies reported as being lost due to CCD must have fully met four criteria: 1) Little to no build-up of dead bees in the hive or at the hive entrance 2) Rapid loss of adult honey bee population despite the presence of queen, capped brood, and food reserves 3) Absence or delayed robbing of the food reserves 4) Loss not attributable to varroa or nosema loads. Colonies lost due to CCD were collected on a quarterly basis for operations with five or more colonies. Colonies lost due to CCD on operations with less than five colonies were collected annually and for the year as a whole.

Lost colony: A completely failed colony, loss of most workers, and possibly the queen. Colony is no longer viable. Sometimes referred to as a dead out.

Maximum colonies: Refers to the sum of colonies in a state on the first of the quarter plus all those moved into the state during that period. Maximum colonies is considered the base number from which a data user can do further analysis. It does not include the colonies that were added, lost, or renovated in the state. Colonies are counted in every state they were in during the quarter; therefore, a national level maximum number of colonies cannot be calculated due to duplication.

Nuc: A smaller sized hive box with reduced numbers of bees and brood, usually containing a queen; used for expansion of the apiary operation or renovating an existing colony.

Package: A shipping container with several pounds of honey bees that may or may not include a queen; used for expansion of the apiary operation or renovating an existing colony.

Percent lost: The state-level percentage of colonies lost is the number of colonies lost in that state divided by the maximum colonies for that state. The national level percentage of colonies lost is the total number of all colonies lost in the United States divided by the number of colonies on the first of the quarter.

Percent renovated: The state-level percentage of colonies renovated is the number of colonies renovated in that state divided by the maximum colonies for that state. The national level percentage of colonies renovated is the total number of all colonies renovated in the United States divided by the number of colonies on the first of the quarter.

Renovated colony: An existing colony that was requeened or received a nuc or package.

Stressors: State level colony health stressors for operations with five or more colonies are the percent of the maximum colonies reported to be affected, by quarter. The national level colony stressors is the summed number for the United States divided by the number of colonies on the first of the quarter.

Statistical Methodology

Survey Procedures: Data for operations with honey bee colonies are collected quarterly from a stratified sample of operations that responded as having five or more honey bee colonies on the *Bee and Honey Inquiry* and from the NASS list frame. NASS Regional Field Offices maintain a list of all known operations with honey bees and use known sources of producers to update their lists. All operations are mailed a questionnaire and given adequate time to respond by mail or electronic data reporting (EDR). Those that do not respond by mail or EDR are telephoned or possibly enumerated in person.

Estimation Procedures: Estimates were prepared by the Agricultural Statistics Board after reviewing recommendations and analysis submitted by each Regional Field Office. All data were analyzed for unusual values. Data from each operation were compared to their own past operating profile and to trends from similar operations. Data for missing operations were estimated based on similar operations or historical data. National and State survey data were reviewed for reasonableness with each other and estimates from the previous quarters using a balance sheet.

Revision Policy: The previous year's estimates are subject to revision when current year's estimates are made. Revisions are the result of late reports or corrected data.

Reliability: Since all operations with honey bees are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplication, and mistakes in reporting, recording, and processing the data. While these errors cannot be measured directly, they are minimized through strict quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

Special Note: Data collection for July 2019 quarterly honey bee colonies was suspended.

Information Contacts

Listed below are the commodity specialists in the Livestock Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov

| | |
|---|----------------|
| Travis Averill, Chief, Livestock Branch | (202) 692-0069 |
| Tony Dorn, Head, Poultry and Specialty Commodities Section | (202) 690-3223 |
| Holly Brenize – Poultry Slaughter..... | (202) 720-0585 |
| Alissa Cowell-Mytar – Cold Storage, Capacity of Refrigerated Warehouses | (202) 720-4751 |
| Liana Cuffman – Catfish and Trout, Mink, Census of Aquaculture | (202) 720-8784 |
| Fatema Haque – Turkey Hatchery, Turkeys Raised | (202) 690-3244 |
| Adam Peters – Honey, Honey Bee Colonies | (202) 690-4870 |
| Autumn Stone – Layers, Eggs, Egg Products | (202) 690-3676 |
| Takiyah Walker – Broiler Hatchery, Chicken Hatchery | (202) 720-6147 |

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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