



Honey Bee Colonies

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January 1 Honey Bee colonies Up 2 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, 2021 totaled 2.92 million colonies, up 2 percent from January 1, 2020. The number of colonies in the United States on April 1, 2021 was 2.86 million colonies. During 2020, honey bee colonies on January 1, April 1, July 1, and October 1 were 2.88 million, 2.97 million, 3.18 million, and 3.14 million colonies, respectively.

Honey bee colonies lost for operations with five or more colonies from January through March 2021, was 372,630 colonies, or 13 percent. The number of colonies lost during the quarter of April through June 2021 was 255,860 colonies, or 9 percent. During the quarter of October through December 2020, colonies lost totaled 484,920 colonies, or 15 percent, the highest number lost of any quarter surveyed in 2020. The quarter surveyed in 2020 with the lowest number of colonies lost was April through June, with 300,990 colonies lost, or 10 percent.

Honey bee colonies added for operations with five or more colonies from January through March 2021 was 308,530 colonies. The number of colonies added during the quarter of April through June 2021 was 677,690. During the quarter of April through June 2020, the number of colonies added were 536,170 colonies, the highest number of honey bee colonies added for any quarter surveyed in 2020. The quarter of October through December 2020 added 271,500 colonies, the least number of honey bee colonies added for any quarter surveyed in 2020.

Honey bee colonies renovated for operations with five or more colonies from January through March 2021 was 156,270 colonies, or 5 percent. During the quarter of April through June 2021, the number of colonies renovated were 480,380 colonies, or 17 percent. The quarter surveyed in 2020 with the highest number of colonies renovated was April through June with 626,870 colonies renovated, or 21 percent. The quarter surveyed in 2020 with the lowest number of colonies renovated was October through December 2020, with 128,990, or 4 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 2020. The period with the highest percentage of colonies reported to be affected by varroa mites was July through September 2020 at 55.7 percent. The percent of colonies reported to be affected by varroa mites during January through March 2021 and April through June 2021 are 31.3 percent and 48.7 percent, respectively.

Colonies Lost with Colony Collapse Disorder Symptoms Down 27 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 76,930 colonies from January through March 2021. This represents a 27 percent decrease from the same quarter in 2020.

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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, 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	7,000	410	6	1,900	780	11
Arizona	29,000	31,000	8,500	27	3,000	120	(Z)
Arkansas	16,500	16,500	1,600	10	1,800	30	(Z)
California	1,350,000	1,710,000	230,000	13	240,000	66,000	4
Colorado	4,500	13,000	670	5	4,000	500	4
Connecticut	3,700	3,800	330	9	360	-	-
Florida	295,000	305,000	30,000	10	41,000	8,000	3
Georgia	115,000	119,000	14,500	12	41,000	22,000	18
Hawaii	16,000	16,000	1,800	11	1,300	2,200	14
Idaho	156,000	168,000	18,500	11	4,400	920	1
Illinois	11,500	11,500	2,400	21	2,900	160	1
Indiana	11,000	11,000	1,600	15	1,500	420	4
Iowa	9,000	17,000	1,600	9	6,000	420	2
Kansas	4,500	6,500	760	12	2,000	130	2
Kentucky	7,000	11,000	1,200	11	1,400	120	1
Louisiana	44,000	48,000	4,800	10	9,000	20,000	42
Maine	1,300	1,300	160	12	460	-	-
Maryland	7,000	7,000	1,900	27	1,900	30	(Z)
Massachusetts	3,800	3,800	470	12	1,100	100	3
Michigan	60,000	60,000	7,000	12	10,000	100	(Z)
Minnesota	21,000	58,000	920	2	1,300	40	(Z)
Mississippi	26,000	28,000	5,000	18	16,000	660	2
Missouri	8,500	8,500	5,500	65	3,400	-	-
Montana	18,000	47,000	150	(Z)	500	-	-
Nebraska	9,000	17,000	670	4	70	-	-
New Jersey	6,500	6,500	430	7	800	40	1
New Mexico	6,000	6,000	40	1	120	-	-
New York	29,000	36,000	2,500	7	230	370	1
North Carolina	15,000	24,000	2,500	10	2,600	490	2
North Dakota	53,000	82,000	7,500	9	-	-	-
Ohio	15,500	21,000	6,000	29	840	1,100	5
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	26,000	2,100	8	370	320	1
South Carolina	13,000	17,000	1,400	8	2,700	1,100	6
South Dakota	20,000	20,000	1,200	6	20	-	-
Tennessee	8,000	14,000	2,700	19	2,200	130	1
Texas	235,000	340,000	35,000	10	83,000	24,000	7
Utah	12,000	19,000	1,100	6	3,000	-	-
Vermont	6,500	7,000	520	7	500	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	600	680	9
Wisconsin	16,000	28,000	1,900	7	700	370	1
Wyoming	4,000	17,000	140	1	450	60	(Z)
Other States ⁵	7,800	7,800	440	6	560	20	(Z)
United States	2,876,100	(X)	415,110	14	511,160	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	2,600	31
Arizona	26,000	26,000	1,300	5	14,500	4,700	18
Arkansas	17,000	17,000	1,800	11	4,900	800	5
California	1,200,000	1,200,000	100,000	8	175,000	240,000	20
Colorado	16,500	27,000	2,100	8	7,000	2,800	10
Connecticut	3,900	4,300	30	1	1,200	450	10
Florida	310,000	310,000	40,000	13	25,000	18,500	6
Georgia	145,000	147,000	10,000	7	18,500	20,000	14
Hawaii	15,500	15,500	-	-	3,000	2,300	15
Idaho	48,000	81,000	18,000	22	22,000	29,000	36
Illinois	12,000	12,000	1,500	13	4,200	1,700	14
Indiana	11,000	12,000	920	8	4,500	1,800	15
Iowa	21,000	29,000	3,600	12	17,000	4,700	16
Kansas	7,500	8,000	680	9	1,900	1,800	23
Kentucky	11,000	11,000	1,200	11	4,200	3,500	32
Louisiana	53,000	53,000	1,800	3	2,300	4,700	9
Maine	1,600	22,000	700	3	520	110	1
Maryland	7,000	8,000	670	8	4,400	1,700	21
Massachusetts	4,400	13,500	630	5	870	540	4
Michigan	64,000	85,000	1,500	2	11,000	10,000	12
Minnesota	59,000	126,000	13,000	10	9,000	2,600	2
Mississippi	34,000	37,000	4,500	12	1,500	570	2
Missouri	6,500	6,500	390	6	2,800	1,200	18
Montana	48,000	120,000	2,000	2	18,000	16,000	13
Nebraska	16,500	41,000	1,900	5	7,000	1,100	3
New Jersey	7,000	21,000	710	3	1,500	650	3
New Mexico	3,100	6,000	1,000	17	400	40	1
New York	34,000	58,000	4,000	7	6,000	2,800	5
North Carolina	24,000	25,000	1,600	6	6,000	1,300	5
North Dakota	67,000	415,000	20,000	5	53,000	38,000	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	96,000	2,500	3	11,000	19,000	20
Pennsylvania	24,000	28,000	930	3	5,500	1,500	5
South Carolina	18,500	18,500	1,700	9	2,700	2,500	14
South Dakota	9,500	220,000	4,600	2	10,000	14,500	7
Tennessee	13,500	13,500	1,200	9	4,200	3,200	24
Texas	360,000	385,000	35,000	9	15,000	136,000	35
Utah	21,000	31,000	2,800	9	8,500	13,000	42
Vermont	7,000	7,000	200	3	680	110	2
Virginia	7,500	8,000	1,200	15	4,800	1,300	16
Washington	50,000	114,000	3,500	3	5,000	3,300	3
West Virginia	7,500	7,500	570	8	1,600	1,500	20
Wisconsin	27,000	55,000	1,700	3	14,000	4,600	8
Wyoming	17,500	30,000	2,000	7	4,400	2,100	7
Other States ⁵	6,500	9,840	260	3	1,400	1,500	15
United States	2,972,000	(X)	300,990	10	536,170	626,870	21

- Represents zero.

(X) Not applicable.

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.

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

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	9,000	19,000	3,700	19	1,800	990	5
Arizona	28,000	30,000	8,000	27	2,600	1,800	6
Arkansas	19,000	22,000	1,700	8	1,500	390	2
California	640,000	700,000	69,000	10	61,000	108,000	15
Colorado	29,000	29,000	7,000	24	3,800	5,500	19
Connecticut	4,700	4,700	300	6	130	150	3
Florida	220,000	230,000	29,000	13	36,000	31,000	13
Georgia	150,000	163,000	23,000	14	22,000	35,000	21
Hawaii	18,500	18,500	500	3	4,000	3,400	18
Idaho	70,000	85,000	11,000	13	18,500	8,500	10
Illinois	14,000	14,000	1,400	10	770	690	5
Indiana	15,000	15,000	1,600	11	1,200	2,700	18
Iowa	34,000	38,000	1,800	5	1,100	2,900	8
Kansas	7,000	7,000	910	13	600	730	10
Kentucky	11,500	12,000	1,400	12	800	510	4
Louisiana	48,000	48,000	2,600	5	1,200	3,100	6
Maine	9,500	10,000	1,500	15	700	820	8
Maryland	7,500	7,500	690	9	1,200	220	3
Massachusetts	11,000	11,000	330	3	840	810	7
Michigan	96,000	106,000	34,000	32	37,000	11,000	10
Minnesota	114,000	119,000	10,500	9	1,800	3,700	3
Mississippi	26,000	29,000	1,600	6	2,500	130	(Z)
Missouri	8,000	8,000	730	9	290	820	10
Montana	138,000	139,000	8,500	6	6,500	28,000	20
Nebraska	47,000	48,000	4,300	9	3,000	3,100	6
New Jersey	17,500	18,500	2,300	12	1,500	1,800	10
New Mexico	5,500	5,500	1,600	29	3,300	760	14
New York	61,000	61,000	3,600	6	5,500	1,600	3
North Carolina	26,000	27,000	4,600	17	950	5,500	20
North Dakota	455,000	495,000	53,000	11	57,000	33,000	7
Ohio	22,000	22,000	1,900	9	730	2,100	10
Oklahoma	7,000	8,000	1,100	14	150	930	12
Oregon	102,000	124,000	12,000	10	13,000	28,000	23
Pennsylvania	27,000	27,000	2,200	8	2,500	1,200	4
South Carolina	12,000	13,500	1,800	13	1,200	2,200	16
South Dakota	230,000	235,000	66,000	28	30,000	12,500	5
Tennessee	15,000	15,000	2,200	15	460	860	6
Texas	167,000	173,000	9,500	5	9,000	7,500	4
Utah	24,000	30,000	2,000	7	1,500	2,300	8
Vermont	7,500	7,500	210	3	700	180	2
Virginia	8,500	8,500	1,200	14	910	730	9
Washington	94,000	104,000	7,000	7	5,000	8,500	8
West Virginia	8,000	8,000	540	7	210	800	10
Wisconsin	68,000	68,000	8,000	12	970	9,000	13
Wyoming	33,000	34,000	3,600	11	640	7,500	22
Other States ⁵	10,630	11,630	2,080	18	2,230	700	6
United States	3,175,330	(X)	411,490	13	348,280	381,620	12

(X) Not applicable.

(Z) Less than half of the unit shown.

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, 2020 and October-December 2020

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	17,000	17,000	1,100	6	750	60	(Z)
Arizona	25,000	27,000	4,000	15	5,500	600	2
Arkansas	22,000	23,000	2,100	9	380	780	3
California	700,000	1,400,000	164,000	12	120,000	58,000	4
Colorado	19,000	19,000	5,000	26	930	20	(Z)
Connecticut	4,300	4,600	500	11	20	20	(Z)
Florida	240,000	290,000	29,000	10	50,000	17,500	6
Georgia	165,000	174,000	30,000	17	11,000	11,000	6
Hawaii	22,000	22,000	2,700	12	200	370	2
Idaho	94,000	180,000	19,000	11	8,000	1,700	1
Illinois	13,000	13,000	1,700	13	330	410	3
Indiana	10,000	11,000	930	8	240	260	2
Iowa	38,000	38,000	4,800	13	700	850	2
Kansas	6,000	7,000	2,400	34	460	170	2
Kentucky	11,500	11,500	1,100	10	380	520	5
Louisiana	46,000	52,000	1,700	3	30	620	1
Maine	9,000	9,000	100	1	180	250	3
Maryland	6,000	8,000	980	12	60	460	6
Massachusetts	10,000	10,000	390	4	270	90	1
Michigan	97,000	101,000	10,500	10	2,400	1,600	2
Minnesota	99,000	105,000	9,500	9	1,200	340	(Z)
Mississippi	30,000	37,000	3,800	10	300	30	(Z)
Missouri	6,500	7,000	750	11	20	110	2
Montana	81,000	92,000	14,000	15	3,500	290	(Z)
Nebraska	43,000	43,000	7,000	16	280	2,500	6
New Jersey	18,000	18,000	310	2	2,000	480	3
New Mexico	2,400	3,600	190	5	80	50	1
New York	52,000	52,000	4,100	8	2,400	5,000	10
North Carolina	16,500	22,000	2,500	11	200	9,000	41
North Dakota	445,000	445,000	45,000	10	12,500	-	-
Ohio	21,000	21,000	1,600	8	10	490	2
Oklahoma	7,000	28,000	300	1	250	-	-
Oregon	122,000	123,000	15,500	13	7,000	2,600	2
Pennsylvania	23,000	25,000	1,900	8	580	440	2
South Carolina	11,500	18,500	2,600	14	270	210	1
South Dakota	197,000	197,000	16,000	8	1,000	150	(Z)
Tennessee	13,500	13,500	680	5	20	640	5
Texas	144,000	255,000	43,000	17	27,000	1,700	1
Utah	29,000	29,000	3,800	13	1,800	50	(Z)
Vermont	8,000	8,000	270	3	30	-	-
Virginia	8,000	8,500	1,000	12	70	450	5
Washington	102,000	103,000	16,500	16	6,000	2,000	2
West Virginia	7,500	7,500	550	7	120	800	11
Wisconsin	60,000	60,000	8,000	13	2,800	4,700	8
Wyoming	23,000	25,000	1,600	6	160	380	2
Other States ⁵	10,640	10,740	2,470	23	80	1,300	12
United States	3,135,340	(X)	484,920	15	271,500	128,990	4

- 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.

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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	10,000	10,000	1,200	12	670	200	2
Arizona	29,000	29,000	7,000	24	3,500	180	1
Arkansas	21,000	21,000	2,200	10	790	130	1
California	1,240,000	1,550,000	193,000	12	76,000	84,000	5
Colorado	3,000	16,500	640	4	850	30	(Z)
Connecticut	4,200	4,200	780	19	350	50	1
Florida	300,000	305,000	31,000	10	42,000	17,000	6
Georgia	120,000	120,000	20,000	17	34,000	14,500	12
Hawaii	19,500	19,500	900	5	2,400	1,600	8
Idaho	168,000	171,000	15,000	9	9,000	8,500	5
Illinois	9,500	12,500	3,000	24	3,300	200	2
Indiana	10,000	11,000	2,700	25	3,500	20	(Z)
Iowa	15,000	25,000	2,100	8	3,100	30	(Z)
Kansas	5,000	6,500	1,400	22	2,300	10	(Z)
Kentucky	9,500	9,500	2,100	22	2,500	80	1
Louisiana	51,000	53,000	7,500	14	1,100	3,000	6
Maine	2,900	2,900	300	10	60	80	3
Maryland	7,000	7,000	1,200	17	590	240	3
Massachusetts	5,000	5,000	1,000	20	30	90	2
Michigan	78,000	78,000	1,500	2	320	4,100	5
Minnesota	41,000	68,000	3,200	5	2,900	140	(Z)
Mississippi	33,000	36,000	5,500	15	14,500	3,800	11
Missouri	5,500	5,500	1,500	27	780	40	1
Montana	40,000	51,000	310	1	-	20	(Z)
Nebraska	11,000	17,500	640	4	1,300	-	-
New Jersey	14,000	14,000	360	3	610	80	1
New Mexico	3,500	3,500	230	7	2,200	-	-
New York	30,000	30,000	4,900	16	3,400	380	1
North Carolina	18,000	21,000	2,100	10	2,700	110	1
North Dakota	51,000	65,000	180	(Z)	2,700	-	-
Ohio	17,500	17,500	4,000	23	120	20	(Z)
Oklahoma	28,000	28,000	2,600	9	4,100	360	1
Oregon	76,000	79,000	3,100	4	2,600	610	1
Pennsylvania	20,000	21,000	5,500	26	4,100	40	(Z)
South Carolina	15,500	18,500	1,200	6	930	190	1
South Dakota	28,000	34,000	450	1	-	-	-
Tennessee	12,000	13,000	2,200	17	960	310	2
Texas	240,000	345,000	23,000	7	56,000	13,000	4
Utah	17,500	18,500	2,500	14	4,000	-	-
Vermont	7,500	7,500	1,300	17	670	70	1
Virginia	7,000	7,000	1,400	20	2,300	50	1
Washington	48,000	67,000	6,000	9	5,500	850	1
West Virginia	7,000	7,500	1,200	16	1,700	720	10
Wisconsin	25,000	37,000	2,500	7	7,000	170	(Z)
Wyoming	13,000	14,500	1,700	12	500	1,200	8
Other States ⁵	6,640	6,640	540	8	600	70	1
United States	2,923,240	(X)	372,630	13	308,530	156,270	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, 2021 and April-June 2021

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	9,500	9,500	2,700	28	2,800	930	10
Arizona	26,000	26,000	4,200	16	8,500	7,500	29
Arkansas	12,000	12,000	1,600	13	9,000	6,000	50
California	1,050,000	1,060,000	64,000	6	200,000	180,000	17
Colorado	17,000	22,000	5,500	25	4,800	1,100	5
Connecticut	3,800	4,000	60	2	960	400	10
Florida	300,000	300,000	33,000	11	52,000	31,000	10
Georgia	135,000	136,000	20,000	15	25,000	18,500	14
Hawaii	21,000	21,000	630	3	460	1,200	6
Idaho	86,000	120,000	19,500	16	40,000	19,000	16
Illinois	13,000	13,000	1,100	8	3,700	2,100	16
Indiana	12,000	12,500	560	4	4,000	1,000	8
Iowa	26,000	27,000	2,200	8	10,500	3,900	14
Kansas	7,500	8,000	870	11	4,900	1,600	20
Kentucky	10,000	11,500	270	2	2,100	4,500	39
Louisiana	29,000	30,000	2,300	8	8,000	2,000	7
Maine	2,000	18,000	1,100	6	430	260	1
Maryland	6,500	7,500	320	4	2,600	690	9
Massachusetts	4,000	10,000	810	8	1,400	310	3
Michigan	75,000	97,000	3,500	4	10,000	8,000	8
Minnesota	69,000	98,000	5,500	6	28,000	4,000	4
Mississippi	34,000	35,000	4,800	14	9,000	8,000	23
Missouri	4,800	4,800	670	14	2,000	670	14
Montana	38,000	116,000	3,100	3	13,500	15,500	13
Nebraska	18,500	37,000	1,800	5	8,500	810	2
New Jersey	14,500	19,500	410	2	1,400	140	1
New Mexico	5,500	5,500	540	10	80	2,300	42
New York	29,000	50,000	3,000	6	14,500	4,100	8
North Carolina	22,000	23,000	1,700	7	6,000	3,300	14
North Dakota	42,000	395,000	4,400	1	4,800	3,500	1
Ohio	13,000	13,500	820	6	6,500	2,400	18
Oklahoma	17,000	17,000	3,600	21	4,200	190	1
Oregon	80,000	84,000	3,300	4	25,000	19,500	23
Pennsylvania	20,000	23,000	2,100	9	7,000	2,800	12
South Carolina	18,500	19,500	1,800	9	4,100	5,000	26
South Dakota	16,500	198,000	6,500	3	39,000	19,000	10
Tennessee	12,000	12,000	720	6	4,800	3,400	28
Texas	385,000	425,000	34,000	8	65,000	72,000	17
Utah	20,000	31,000	3,500	11	8,500	3,900	13
Vermont	7,000	7,000	40	1	770	570	8
Virginia	8,000	8,500	530	6	3,100	820	10
Washington	66,000	122,000	2,900	2	9,500	2,600	2
West Virginia	8,000	9,000	170	2	1,900	390	4
Wisconsin	42,000	57,000	2,200	4	9,000	7,500	13
Wyoming	13,500	30,000	3,400	11	7,500	4,900	16
Other States ⁵	5,970	8,410	140	2	2,890	3,100	37
United States	2,855,070	(X)	255,860	9	677,690	480,380	17

(X) Not applicable.

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 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	-	0.1	1.7	4.3
Arizona	31.7	(Z)	(Z)	-	10.1	9.0
Arkansas	31.7	22.7	(Z)	2.6	(Z)	11.2
California	22.4	6.0	5.0	5.3	5.3	4.2
Colorado	20.8	-	(Z)	(Z)	10.8	2.4
Connecticut	11.2	2.9	(Z)	-	2.8	3.0
Florida	28.0	14.2	5.5	5.3	8.7	10.9
Georgia	50.9	3.4	(Z)	(Z)	(Z)	7.5
Hawaii	75.3	60.8	(Z)	-	(Z)	(Z)
Idaho	10.4	0.8	(Z)	2.8	2.1	1.9
Illinois	17.2	8.9	(Z)	-	7.3	10.0
Indiana	8.2	0.5	(Z)	2.9	1.9	6.2
Iowa	22.3	1.9	-	(Z)	5.7	5.5
Kansas	13.3	8.1	7.8	7.8	3.1	11.3
Kentucky	17.4	2.6	2.0	(Z)	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	(Z)	-	8.5	2.4
Massachusetts	13.9	0.5	1.8	(Z)	4.5	2.2
Michigan	8.1	0.5	(Z)	(Z)	(Z)	0.7
Minnesota	3.5	-	-	(Z)	4.3	(Z)
Mississippi	58.6	50.9	(Z)	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	(Z)	(Z)	-	(Z)	0.8
New Jersey	9.4	2.9	0.5	(Z)	3.2	2.3
New Mexico	2.1	-	-	-	0.7	(Z)
New York	6.6	2.9	-	-	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	(Z)	3.0	13.4
Oklahoma	11.4	0.6	(Z)	0.5	(Z)	(Z)
Oregon	24.4	10.4	10.8	14.5	1.3	(Z)
Pennsylvania	15.5	3.9	2.8	1.8	2.7	3.2
South Carolina	15.5	11.5	9.6	(Z)	6.4	5.4
South Dakota	14.7	(Z)	-	2.1	(Z)	(Z)
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	(Z)	(Z)	3.8	3.5
Washington	1.7	(Z)	(Z)	0.5	(Z)	(Z)
West Virginia	17.3	7.0	1.3	0.6	2.6	(Z)
Wisconsin	9.0	1.9	(Z)	(Z)	2.7	3.1
Wyoming	(Z)	(Z)	0.1	-	0.8	1.7
Other States ⁴	5.8	-	(Z)	-	0.8	(Z)
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)	4.2	5.5	0.6
Arkansas	40.5	15.3	5.1	24.6	2.1	12.4
California	33.6	4.8	3.9	5.5	7.6	3.1
Colorado	35.4	(Z)	(Z)	-	0.5	2.5
Connecticut	14.8	2.1	-	-	0.1	0.6
Florida	33.1	16.0	3.4	5.8	5.9	7.9
Georgia	47.9	19.6	6.9	2.9	7.9	13.4
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	30.6	24.7	16.6	0.8	3.5	0.5
Kansas	68.4	34.1	24.0	32.8	28.9	14.3
Kentucky	18.3	10.9	(Z)	1.2	2.9	3.2
Louisiana	23.7	4.7	0.5	(Z)	3.5	1.3
Maine	47.1	(Z)	26.8	-	0.5	-
Maryland	14.3	1.1	0.1	1.1	3.2	0.5
Massachusetts	14.7	2.1	(Z)	(Z)	1.1	(Z)
Michigan	38.0	11.5	2.2	6.0	3.2	1.1
Minnesota	20.6	2.9	0.7	8.8	4.4	(Z)
Mississippi	93.1	57.8	-	0.9	8.5	(Z)
Missouri	17.4	1.5	5.7	3.1	11.2	1.9
Montana	12.1	5.6	5.9	-	4.6	(Z)
Nebraska	17.5	1.1	4.8	12.2	(Z)	2.7
New Jersey	15.4	0.8	21.5	(Z)	21.7	(Z)
New Mexico	3.0	(Z)	(Z)	(Z)	(Z)	(Z)
New York	20.7	2.5	0.6	(Z)	3.5	0.5
North Carolina	23.0	5.5	1.9	-	1.8	1.4
North Dakota	28.8	1.7	2.5	3.1	3.0	1.9
Ohio	23.8	12.0	6.2	5.8	7.3	13.3
Oklahoma	16.2	3.9	(Z)	0.9	15.1	5.1
Oregon	28.0	1.7	7.5	2.2	5.9	0.7
Pennsylvania	26.6	2.6	1.4	(Z)	3.3	1.3
South Carolina	29.1	6.2	0.5	(Z)	5.7	0.5
South Dakota	53.3	46.4	4.8	(Z)	52.5	5.3
Tennessee	31.2	7.8	(Z)	6.8	3.3	3.0
Texas	30.2	7.7	3.3	4.6	5.7	5.8
Utah	38.4	-	(Z)	13.1	(Z)	7.7
Vermont	10.7	0.5	0.1	-	1.1	-
Virginia	33.7	7.9	(Z)	(Z)	7.9	1.1
Washington	10.6	(Z)	0.7	1.0	1.3	(Z)
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	12.8	0.8	0.5	-	(Z)	(Z)
United States	43.1	12.5	5.5	6.2	11.2	5.4

- 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.

Colony Health Stressors with Five or More Colonies – States and United States: July-September 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	64.9	29.1	-	12.0	5.4	11.7
Arizona	24.1	(Z)	1.9	1.7	9.3	12.2
Arkansas	33.9	15.6	3.9	13.9	1.3	8.6
California	33.9	11.4	7.3	6.3	8.1	3.6
Colorado	23.1	1.1	(Z)	-	6.3	19.8
Connecticut	20.2	1.4	-	-	4.0	-
Florida	42.2	19.9	12.8	14.8	7.9	10.9
Georgia	49.6	22.5	3.5	3.4	5.3	13.0
Hawaii	62.7	63.5	(Z)	(Z)	0.5	(Z)
Idaho	45.0	2.6	6.7	10.9	9.0	3.8
Illinois	28.1	15.6	1.8	4.9	6.6	8.4
Indiana	41.4	12.0	1.7	24.5	0.7	1.3
Iowa	49.1	29.4	3.9	6.3	4.5	(Z)
Kansas	93.8	24.8	15.6	34.1	2.1	(Z)
Kentucky	23.3	4.0	1.4	1.6	2.4	5.1
Louisiana	27.2	14.4	4.7	0.8	3.6	3.4
Maine	65.2	2.5	0.7	-	4.6	6.2
Maryland	17.6	4.8	(Z)	(Z)	0.6	2.9
Massachusetts	29.7	1.6	1.5	0.8	1.2	0.7
Michigan	53.1	14.5	3.4	8.9	5.9	1.0
Minnesota	46.3	3.7	(Z)	8.2	2.2	1.7
Mississippi	45.7	41.8	(Z)	(Z)	3.3	6.2
Missouri	30.8	8.8	(Z)	1.1	2.4	2.4
Montana	36.6	2.1	0.9	(Z)	8.6	1.2
Nebraska	23.4	0.8	3.3	19.8	21.4	(Z)
New Jersey	21.7	5.6	-	16.3	(Z)	(Z)
New Mexico	33.8	32.9	-	-	0.5	(Z)
New York	18.2	7.8	6.3	3.3	2.1	1.1
North Carolina	70.5	17.9	(Z)	(Z)	(Z)	(Z)
North Dakota	61.3	15.9	12.3	4.1	9.3	1.4
Ohio	28.6	10.4	0.8	3.7	10.8	1.4
Oklahoma	52.4	8.0	0.9	1.7	2.4	0.8
Oregon	42.4	2.5	3.8	0.5	7.1	2.4
Pennsylvania	32.2	12.3	1.2	1.6	5.5	2.3
South Carolina	27.1	28.9	(Z)	6.2	1.5	0.9
South Dakota	87.0	7.0	2.1	64.9	61.4	2.0
Tennessee	37.7	15.5	2.3	0.5	2.4	2.2
Texas	20.2	13.6	2.0	6.7	1.6	0.6
Utah	61.7	(Z)	(Z)	31.6	3.7	3.9
Vermont	26.6	0.7	0.9	3.8	0.9	(Z)
Virginia	27.5	8.3	(Z)	(Z)	4.1	5.8
Washington	19.2	(Z)	(Z)	10.5	1.3	0.6
West Virginia	17.7	10.1	4.7	4.7	1.7	2.6
Wisconsin	43.1	22.8	12.9	26.1	13.8	20.4
Wyoming	13.4	(Z)	0.7	5.9	1.8	0.9
Other States ⁴	76.4	7.1	(Z)	6.3	14.1	(Z)
United States	55.7	12.8	6.1	21.7	13.8	4.1

- 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.

Colony Health Stressors with Five or More Colonies – States and United States: October-December 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	50.8	43.2	15.4	2.0	2.3	16.9
Arizona	22.5	(Z)	(Z)	4.5	2.3	18.3
Arkansas	43.1	12.9	1.7	12.8	5.9	5.7
California	45.5	11.1	7.1	4.8	4.2	4.0
Colorado	14.9	-	(Z)	-	0.9	1.5
Connecticut	49.4	0.9	0.1	-	4.3	8.2
Florida	45.7	21.7	10.4	19.6	2.3	7.5
Georgia	35.5	12.9	1.8	7.5	1.9	6.7
Hawaii	57.2	65.2	(Z)	-	2.9	-
Idaho	52.1	8.9	4.3	4.8	4.8	5.4
Illinois	26.4	9.8	1.1	2.9	2.7	6.9
Indiana	26.3	4.1	(Z)	1.9	2.4	5.7
Iowa	39.8	0.9	2.6	(Z)	1.8	1.4
Kansas	37.7	30.3	1.2	33.3	26.4	25.9
Kentucky	23.8	8.8	-	-	8.2	9.0
Louisiana	22.2	2.9	-	(Z)	2.9	(Z)
Maine	30.8	(Z)	0.5	-	1.2	0.6
Maryland	27.5	1.8	1.5	0.7	6.2	2.1
Massachusetts	17.4	1.2	(Z)	(Z)	(Z)	0.9
Michigan	42.9	5.4	5.3	3.1	3.6	4.3
Minnesota	17.2	1.6	1.0	19.2	1.8	2.6
Mississippi	7.8	1.5	-	0.6	7.8	5.9
Missouri	13.1	7.9	(Z)	0.5	3.1	0.8
Montana	15.1	11.6	11.6	2.6	4.4	6.0
Nebraska	3.6	(Z)	0.5	(Z)	1.4	6.3
New Jersey	6.8	2.1	0.5	0.6	0.2	0.7
New Mexico	15.7	(Z)	1.0	-	2.0	0.9
New York	19.2	7.2	(Z)	(Z)	4.5	4.1
North Carolina	37.7	14.0	(Z)	5.1	0.6	1.9
North Dakota	60.2	0.5	5.1	11.5	1.1	5.5
Ohio	42.4	12.4	0.9	6.4	2.5	1.7
Oklahoma	2.3	1.1	(Z)	(Z)	(Z)	0.8
Oregon	28.5	4.6	3.7	1.6	3.8	3.9
Pennsylvania	28.1	3.9	1.3	1.9	1.8	2.6
South Carolina	22.9	4.2	-	1.3	2.7	3.8
South Dakota	22.6	1.4	6.5	4.5	(Z)	1.8
Tennessee	33.8	25.4	(Z)	5.1	2.1	5.2
Texas	27.4	6.5	(Z)	5.0	5.7	9.6
Utah	49.5	(Z)	(Z)	6.8	0.7	17.6
Vermont	10.0	(Z)	0.5	-	0.6	(Z)
Virginia	30.3	13.6	1.6	2.0	5.4	2.9
Washington	25.5	20.2	22.9	2.6	4.7	4.4
West Virginia	7.2	4.3	(Z)	1.0	4.5	1.1
Wisconsin	29.3	0.6	(Z)	7.4	1.8	1.2
Wyoming	19.2	-	(Z)	2.4	2.2	1.4
Other States ⁴	44.5	1.1	(Z)	(Z)	12.5	7.4
United States	48.6	11.0	6.8	8.0	4.1	6.3

- 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 2021

[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	52.2	30.3	-	(Z)	3.1	4.0
Arizona	4.6	5.9	5.9	-	0.5	4.2
Arkansas	28.5	19.6	(Z)	14.2	3.8	2.6
California	29.9	5.7	1.7	7.2	6.2	3.4
Colorado	2.1	-	-	-	1.1	7.8
Connecticut	17.8	3.5	-	0.5	1.6	1.0
Florida	34.7	11.9	5.6	6.6	6.3	3.4
Georgia	47.9	14.4	8.9	1.5	4.1	4.6
Hawaii	49.0	52.2	-	-	4.7	-
Idaho	33.3	10.7	-	9.5	1.8	1.7
Illinois	28.8	12.9	1.6	1.3	17.9	9.4
Indiana	34.4	5.4	-	0.7	4.8	4.5
Iowa	18.9	0.7	(Z)	3.7	7.8	3.8
Kansas	25.7	2.8	-	-	19.1	2.2
Kentucky	27.5	16.9	(Z)	-	5.1	9.3
Louisiana	61.4	8.5	-	1.6	8.2	0.9
Maine	7.2	2.6	(Z)	-	2.2	2.1
Maryland	34.6	1.1	-	(Z)	19.7	2.7
Massachusetts	28.9	3.6	1.0	0.5	7.8	4.5
Michigan	2.3	(Z)	(Z)	(Z)	0.7	1.6
Minnesota	6.3	0.6	(Z)	2.5	2.8	(Z)
Mississippi	9.7	3.8	-	1.0	10.6	4.7
Missouri	16.6	5.6	(Z)	0.8	13.1	10.3
Montana	(Z)	-	(Z)	-	(Z)	(Z)
Nebraska	-	-	-	1.5	1.7	0.7
New Jersey	18.7	1.5	1.0	1.3	1.2	0.8
New Mexico	14.2	0.1	-	-	6.5	1.9
New York	15.0	3.9	0.6	0.5	5.7	4.8
North Carolina	23.7	7.3	(Z)	(Z)	0.6	0.5
North Dakota	(Z)	(Z)	-	-	(Z)	(Z)
Ohio	26.6	14.4	2.9	2.0	8.2	4.9
Oklahoma	7.6	(Z)	-	(Z)	4.2	2.0
Oregon	12.9	10.7	1.4	(Z)	1.2	0.6
Pennsylvania	18.1	11.6	(Z)	-	6.8	8.2
South Carolina	48.5	10.1	(Z)	3.2	4.1	0.9
South Dakota	8.6	(Z)	-	(Z)	(Z)	0.8
Tennessee	34.4	5.2	1.4	0.8	2.6	8.9
Texas	18.5	13.8	1.6	6.0	7.7	(Z)
Utah	45.4	0.9	-	2.4	1.0	11.2
Vermont	21.1	(Z)	3.7	-	10.1	(Z)
Virginia	11.9	1.0	-	1.9	3.9	4.9
Washington	15.5	2.4	1.0	(Z)	5.3	(Z)
West Virginia	13.7	3.4	0.7	2.6	1.2	3.3
Wisconsin	16.1	(Z)	(Z)	-	3.6	3.2
Wyoming	(Z)	(Z)	(Z)	-	3.3	7.9
Other States ⁴	19.4	1.2	4.1	(Z)	6.8	1.1
United States	31.3	8.8	2.2	6.3	6.5	3.3

- 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: April-June 2021

[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	55.2	45.0	0.5	2.1	5.8	26.0
Arizona	6.4	(Z)	3.6	1.2	7.1	6.9
Arkansas	44.0	23.0	5.9	2.9	2.1	3.7
California	42.4	11.5	7.7	16.1	11.6	3.8
Colorado	47.6	(Z)	-	(Z)	(Z)	3.3
Connecticut	16.0	0.7	0.1	(Z)	1.2	-
Florida	43.3	22.8	4.3	10.2	6.3	7.7
Georgia	44.5	13.7	5.2	2.8	5.2	5.8
Hawaii	93.3	65.3	-	(Z)	(Z)	(Z)
Idaho	31.9	1.9	5.4	9.9	2.0	6.2
Illinois	22.7	3.1	1.1	2.5	2.8	5.2
Indiana	22.8	7.3	0.6	7.0	7.5	1.6
Iowa	7.1	1.3	0.6	(Z)	1.3	8.2
Kansas	45.7	21.2	7.2	8.5	1.5	6.5
Kentucky	21.5	4.0	1.0	2.2	4.2	2.6
Louisiana	30.6	3.6	(Z)	(Z)	20.3	0.9
Maine	14.1	-	(Z)	-	1.5	-
Maryland	17.4	9.0	(Z)	0.7	2.0	1.4
Massachusetts	45.5	44.3	(Z)	44.0	0.5	-
Michigan	45.1	2.7	0.8	3.5	0.9	(Z)
Minnesota	12.9	(Z)	(Z)	12.6	1.1	1.0
Mississippi	46.7	11.3	3.2	0.5	3.2	9.9
Missouri	15.4	6.2	1.3	0.6	5.8	4.6
Montana	20.8	-	1.5	13.3	5.2	3.0
Nebraska	17.4	(Z)	(Z)	7.4	3.2	1.3
New Jersey	11.4	5.3	-	2.6	1.7	1.3
New Mexico	64.6	-	0.1	2.5	-	(Z)
New York	35.8	3.9	0.5	1.7	2.3	3.5
North Carolina	35.8	3.5	(Z)	(Z)	(Z)	(Z)
North Dakota	29.9	0.7	(Z)	(Z)	2.0	(Z)
Ohio	68.2	41.4	7.3	3.3	7.7	3.4
Oklahoma	3.1	2.1	(Z)	(Z)	7.0	1.0
Oregon	17.2	8.3	6.2	10.1	6.5	1.8
Pennsylvania	21.8	5.1	1.3	2.7	1.2	0.5
South Carolina	50.1	43.8	2.3	(Z)	9.4	5.1
South Dakota	51.8	12.6	3.7	4.2	49.5	0.8
Tennessee	22.4	10.3	(Z)	2.4	3.1	(Z)
Texas	38.1	3.4	(Z)	11.5	5.7	(Z)
Utah	40.1	25.8	10.4	18.7	(Z)	1.4
Vermont	28.8	(Z)	(Z)	-	0.5	-
Virginia	13.3	6.3	3.6	2.1	2.7	3.7
Washington	31.7	19.1	18.4	1.2	4.7	(Z)
West Virginia	5.2	3.9	1.1	-	1.0	2.2
Wisconsin	14.9	17.8	1.1	22.3	1.0	2.0
Wyoming	8.3	0.9	(Z)	6.9	1.5	2.4
Other States ⁴	60.3	(Z)	(Z)	4.8	5.9	5.0
United States	48.7	12.8	5.5	12.3	11.3	3.9

- 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: 2020 and 2021

[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)
2020	105,240	48,270	78,190	116,910
2021	76,930	49,620		

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.

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.

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
Jean Porter, 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) 720-3244
Derron Martin – Chicken Hatchery, Egg Products	(202) 690-3237
Seth Riggins – Honey, Honey Bee Colonies	(202) 690-4870
Autumn Stone – Layers, Eggs	(202) 690-3676
Takiyah Walker – Broiler Hatchery.....	(202) 720-6147

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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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