



Honey Bee Colonies

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January 1 Honey Bee colonies Down 7 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, 2023 totaled 2.68 million colonies, down 7 percent from January 1, 2022. The number of colonies in the United States on April 1, 2023, was 2.71 million colonies. During 2022, honey bee colonies on January 1, April 1, July 1, and October 1 were 2.88 million, 2.91 million, 3.11 million, and 2.89 million colonies, respectively.

Honey bee colonies lost for operations with five or more colonies from January through March 2023, was 373,880 colonies, or 14 percent. The number of colonies lost during the quarter of April through June 2023, was 237,350 colonies, or 9 percent. During the quarter of April through June 2022, colonies lost totaled 363,570 colonies, or 13 percent, the highest number lost of any quarter surveyed in 2022. The quarter surveyed in 2022 with the lowest number of colonies lost was January through March, with 331,480 colonies lost, or 12 percent.

Honey bee colonies added for operations with five or more colonies from January through March 2023 was 384,790 colonies. The number of colonies added during the quarter of April through June 2023 was 596,360. During the quarter of April through June 2022, the number of colonies added were 573,160 colonies, the highest number of honey bee colonies added for any quarter surveyed in 2022. The quarter of July through September 2022 added 152,640 colonies, the least number of honey bee colonies added for any quarter surveyed in 2022.

Honey bee colonies renovated for operations with five or more colonies from January through March 2023 was 113,440 colonies, or 4 percent. During the quarter of April through June 2023, the number of colonies renovated were 478,440 colonies, or 18 percent. The quarter surveyed in 2022 with the highest number of colonies renovated was April through June 2022 with 494,890 colonies renovated, or 17 percent. The quarter surveyed in 2022 with the lowest number of colonies renovated was October through December 2022, with 147,950, or 5 percent. Renovated colonies are those that were requeened or received new honey bees through a nucleus (nuc) colony 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 2022. The period with the highest percentage of colonies reported to be affected by varroa mites was April through June 2022 at 47.5 percent. The percent of colonies reported to be affected by varroa mites during January through March 2023 and April through June 2023 are 39.7 percent and 50.9 percent, respectively.

Colonies Lost with Colony Collapse Disorder Symptoms Up 25 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 107,630 colonies from January through March 2023. This represents a 25 percent increase from the same quarter in 2022.

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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, 2022 and January-March 2022

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	7,500	11,500	1,100	10	1,600	520	5
Arizona	25,000	32,000	2,300	7	720	10	(Z)
Arkansas	18,500	21,000	2,600	12	780	20	(Z)
California	1,060,000	1,520,000	162,000	11	139,000	95,000	6
Colorado	3,800	8,500	540	6	-	10	(Z)
Connecticut	3,500	4,500	420	9	10	170	4
Florida	295,000	295,000	24,000	8	50,000	13,500	5
Georgia	118,000	119,000	14,000	12	26,000	18,000	15
Idaho	194,000	215,000	8,000	4	7,500	1,000	(Z)
Illinois	11,500	11,500	2,200	19	900	140	1
Indiana	9,500	9,500	2,900	31	1,300	30	(Z)
Iowa	26,000	29,000	2,800	10	610	30	(Z)
Kansas	4,000	5,000	520	10	240	60	1
Kentucky	8,500	9,500	1,300	14	50	160	2
Louisiana	35,000	37,000	6,000	16	11,000	2,200	6
Maine	3,100	8,000	340	4	-	120	2
Maryland	6,500	8,500	1,900	22	1,100	1,000	12
Massachusetts	6,000	6,000	950	16	350	510	9
Michigan	66,000	71,000	4,500	6	1,400	2,500	4
Minnesota	78,000	97,000	1,500	2	4,800	80	(Z)
Mississippi	20,000	37,000	3,400	9	12,000	2,300	6
Missouri	4,800	11,000	730	7	310	570	5
Montana	45,000	54,000	300	1	30	-	-
Nebraska	24,000	30,000	840	3	30	-	-
New Jersey	11,500	15,000	550	4	1,500	30	(Z)
New Mexico	5,500	8,000	1,900	24	1,000	-	-
New York	44,000	44,000	5,500	13	370	730	2
North Carolina	20,000	24,000	2,300	10	3,100	520	2
North Dakota	75,000	89,000	120	(Z)	300	-	-
Ohio	16,000	16,000	2,400	15	1,600	530	3
Oklahoma	20,000	20,000	3,000	15	50	3,500	18
Oregon	85,000	96,000	5,000	5	2,400	310	(Z)
Pennsylvania	20,000	23,000	2,800	12	2,500	360	2
South Carolina	17,000	20,000	2,500	13	4,500	830	4
South Dakota	21,000	28,000	1,000	4	40	-	-
Tennessee	10,500	10,500	2,300	22	1,300	200	2
Texas	270,000	400,000	37,000	9	80,000	34,000	9
Utah	28,000	32,000	4,100	13	4,600	740	2
Vermont	7,000	7,500	380	5	250	-	-
Virginia	7,500	9,500	1,700	18	1,100	200	2
Washington	70,000	102,000	7,500	7	1,400	6,000	6
West Virginia	4,600	5,000	1,000	20	1,000	200	4
Wisconsin	39,000	53,000	2,800	5	1,400	240	(Z)
Wyoming	6,000	8,000	180	2	20	-	-
Other States ⁵	24,870	30,870	2,310	7	620	1,060	3
United States	2,875,670	(X)	331,480	12	368,780	187,380	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, 2022 and April-June 2022

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	12,000	12,000	1,500	13	4,600	1,900	16
Arizona	31,000	32,000	4,300	13	17,500	2,800	9
Arkansas	19,000	23,000	3,200	14	6,500	1,200	5
California	980,000	1,040,000	107,000	10	152,000	120,000	12
Colorado	8,000	19,500	1,400	7	8,000	2,300	12
Connecticut	4,100	4,100	30	1	230	30	1
Florida	295,000	310,000	46,000	15	56,000	44,000	14
Georgia	128,000	131,000	26,000	20	27,000	47,000	36
Idaho	103,000	111,000	19,000	17	35,000	8,500	8
Illinois	9,000	9,500	1,100	12	4,300	2,100	22
Indiana	8,000	10,000	1,600	16	5,500	620	6
Iowa	27,000	49,000	2,300	5	5,000	2,400	5
Kansas	4,800	4,900	720	15	5,500	580	12
Kentucky	7,500	10,500	610	6	3,600	460	4
Louisiana	42,000	42,000	1,900	5	9,500	11,500	27
Maine	7,500	19,500	890	5	1,300	300	2
Maryland	7,500	8,500	390	5	1,600	1,100	13
Massachusetts	5,500	10,500	270	3	1,200	890	8
Michigan	69,000	88,000	3,200	4	13,000	3,500	4
Minnesota	102,000	110,000	1,500	1	6,000	2,000	2
Mississippi	46,000	47,000	9,000	19	15,500	7,000	15
Missouri	10,500	10,500	1,500	14	6,000	4,800	46
Montana	41,000	106,000	960	1	6,000	8,000	8
Nebraska	19,000	46,000	2,400	5	11,000	5,000	11
New Jersey	16,000	19,000	140	1	2,600	70	(Z)
New Mexico	7,000	7,000	1,600	23	4,200	2,200	31
New York	35,000	57,000	2,000	4	6,000	4,300	8
North Carolina	25,000	30,000	1,200	4	7,500	3,300	11
North Dakota	77,000	495,000	17,000	3	15,000	8,500	2
Ohio	15,500	15,500	400	3	4,400	1,200	8
Oklahoma	12,500	20,000	10,000	50	10,500	2,100	11
Oregon	94,000	96,000	13,000	14	12,500	19,500	20
Pennsylvania	23,000	24,000	730	3	7,000	2,300	10
South Carolina	22,000	23,000	2,500	11	3,500	3,200	14
South Dakota	13,500	177,000	4,200	2	2,000	19,000	11
Tennessee	9,500	11,500	4,400	38	9,000	1,200	10
Texas	345,000	415,000	46,000	11	42,000	113,000	27
Utah	23,000	29,000	4,600	16	8,500	5,000	17
Vermont	7,500	8,500	150	2	3,300	160	2
Virginia	9,000	10,500	580	6	2,900	680	6
Washington	97,000	109,000	14,000	13	12,500	23,000	21
West Virginia	5,000	7,500	260	3	2,400	2,600	35
Wisconsin	52,000	62,000	1,600	3	7,000	1,300	2
Wyoming	8,000	26,000	1,900	7	4,900	1,800	7
Other States ⁵	26,390	32,390	540	2	3,630	2,500	8
United States	2,909,290	(X)	363,570	13	573,160	494,890	17

(X) Not applicable.

(Z) Less than half of the unit shown.

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, 2022 and July-September 2022

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	14,000	14,000	1,900	14	870	2,000	14
Arizona	25,000	25,000	1,900	8	2,900	2,100	8
Arkansas	26,000	26,000	4,400	17	2,100	370	1
California	590,000	660,000	24,000	4	11,000	57,000	9
Colorado	21,000	24,000	2,800	12	5,000	120	1
Connecticut	4,300	4,300	90	2	80	180	4
Florida	245,000	285,000	58,000	20	38,000	29,000	10
Georgia	118,000	118,000	23,000	19	18,500	39,000	33
Idaho	104,000	112,000	9,500	8	3,500	12,000	11
Illinois	12,500	12,500	1,100	9	730	770	6
Indiana	14,000	14,000	650	5	370	1,300	9
Iowa	52,000	53,000	650	1	590	830	2
Kansas	7,000	7,000	1,000	14	370	140	2
Kentucky	13,500	13,500	820	6	980	1,400	10
Louisiana	41,000	55,000	4,500	8	4,900	3,100	6
Maine	11,000	11,000	6,500	59	310	350	3
Maryland	4,500	4,800	510	11	600	1,300	27
Massachusetts	9,000	9,000	400	4	350	610	7
Michigan	98,000	98,000	15,500	16	8,000	5,500	6
Minnesota	105,000	106,000	7,500	7	1,700	590	1
Mississippi	20,000	21,000	2,700	13	2,100	2,800	13
Missouri	8,500	8,500	660	8	250	360	4
Montana	105,000	124,000	6,000	5	970	2,100	2
Nebraska	51,000	51,000	3,500	7	1,100	1,100	2
New Jersey	21,000	21,000	1,600	8	1,700	210	1
New Mexico	8,500	9,000	150	2	460	230	3
New York	61,000	63,000	4,700	7	2,800	5,500	9
North Carolina	31,000	33,000	2,600	8	2,100	2,500	8
North Dakota	495,000	520,000	82,000	16	7,000	14,500	3
Ohio	19,000	19,000	1,100	6	900	1,500	8
Oklahoma	2,100	2,100	120	6	300	90	4
Oregon	82,000	97,000	10,500	11	2,600	6,500	7
Pennsylvania	28,000	30,000	1,600	5	1,600	1,200	4
South Carolina	15,500	15,500	2,500	16	760	700	5
South Dakota	178,000	194,000	22,000	11	250	2,500	1
Tennessee	9,500	10,500	1,600	15	1,300	400	4
Texas	194,000	205,000	8,500	4	11,500	4,400	2
Utah	32,000	32,000	4,200	13	2,600	2,600	8
Vermont	10,000	10,000	240	2	910	1,800	18
Virginia	12,000	12,000	1,000	8	850	1,100	9
Washington	81,000	84,000	3,000	4	2,800	1,100	1
West Virginia	8,000	8,000	360	5	520	660	8
Wisconsin	58,000	58,000	14,000	24	4,400	8,000	14
Wyoming	29,000	30,000	3,900	13	1,100	2,300	8
Other States ⁵	33,430	33,930	630	2	920	910	3
United States	3,107,330	(X)	343,880	11	152,640	222,720	7

(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, 2022 and October-December 2022

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	11,000	11,000	1,100	10	900	560	5
Arizona	25,000	37,000	5,000	14	1,500	570	2
Arkansas	12,500	22,000	940	4	110	30	(Z)
California	660,000	1,050,000	60,000	6	30,000	58,000	6
Colorado	18,000	20,000	2,000	10	1,100	70	(Z)
Connecticut	4,100	4,100	330	8	20	40	1
Florida	270,000	300,000	61,000	20	30,000	40,000	13
Georgia	109,000	133,000	30,000	23	18,000	17,000	13
Idaho	99,000	154,000	22,000	14	40,000	6,000	4
Illinois	10,000	11,000	1,600	15	80	460	4
Indiana	12,500	12,500	2,200	18	300	1,200	10
Iowa	15,500	51,000	1,700	3	80	90	(Z)
Kansas	6,000	6,000	860	14	100	130	2
Kentucky	13,500	15,500	2,300	15	130	630	4
Louisiana	32,000	34,000	3,100	9	170	640	2
Maine	4,900	4,900	150	3	-	60	1
Maryland	4,900	5,000	520	10	1,400	20	(Z)
Massachusetts	6,000	6,000	260	4	140	160	3
Michigan	73,000	73,000	5,500	8	8,500	700	1
Minnesota	99,000	99,000	4,600	5	150	110	(Z)
Mississippi	18,000	31,000	3,600	12	2,900	250	1
Missouri	4,900	7,000	380	5	220	300	4
Montana	98,000	101,000	4,500	4	2,300	6,000	6
Nebraska	29,000	47,000	5,500	12	1,100	300	1
New Jersey	20,000	20,000	1,000	5	730	70	(Z)
New Mexico	9,500	9,500	920	10	20	180	2
New York	62,000	62,000	14,000	23	740	1,600	3
North Carolina	26,000	29,000	3,400	12	-	480	2
North Dakota	385,000	390,000	39,000	10	11,500	4,200	1
Ohio	17,500	17,500	920	5	700	1,200	7
Oklahoma	2,300	16,500	180	1	-	-	-
Oregon	83,000	83,000	15,000	18	10,000	110	(Z)
Pennsylvania	30,000	30,000	3,500	12	250	1,100	4
South Carolina	12,500	15,500	1,700	11	500	910	6
South Dakota	175,000	175,000	27,000	15	20	10	(Z)
Tennessee	8,500	10,500	1,400	13	1,700	620	6
Texas	210,000	260,000	7,500	3	720	2,200	1
Utah	25,000	26,000	1,800	7	990	250	1
Vermont	10,000	10,000	370	4	400	-	-
Virginia	9,000	10,500	1,300	12	300	750	7
Washington	84,000	89,000	7,500	8	540	220	(Z)
West Virginia	7,500	8,000	1,100	14	-	220	3
Wisconsin	26,000	47,000	3,500	7	140	380	1
Wyoming	19,500	21,000	3,200	15	640	-	-
Other States ⁵	30,030	30,030	480	2	1,190	130	(Z)
United States	2,888,130	(X)	353,910	12	170,280	147,950	5

- 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, 2023 and January-March 2023

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	11,000	14,000	1,400	10	2,000	880	6
Arizona	34,000	34,000	510	2	290	80	(Z)
Arkansas	21,000	23,000	2,200	10	1,200	10	(Z)
California	1,040,000	1,330,000	196,000	15	88,000	48,000	4
Colorado	7,500	10,000	520	5	500	-	(Z)
Connecticut	3,600	4,000	360	9	480	70	2
Florida	270,000	305,000	34,000	11	51,000	18,500	6
Georgia	121,000	121,000	13,000	11	18,500	8,000	7
Idaho	165,000	167,000	12,500	7	4,000	8,000	5
Illinois	9,000	9,500	1,800	19	1,700	320	3
Indiana	7,000	7,000	1,300	19	3,200	40	1
Iowa	36,000	53,000	1,700	3	10,500	240	(Z)
Kansas	3,300	3,900	490	13	940	20	1
Kentucky	9,500	10,500	1,100	10	260	80	1
Louisiana	25,000	38,000	4,800	13	6,000	3,700	10
Maine	2,600	7,500	290	4	190	130	2
Maryland	6,000	6,000	1,100	18	670	140	2
Massachusetts	6,000	8,000	820	10	180	80	1
Michigan	54,000	64,000	9,000	14	330	2,100	3
Minnesota	41,000	52,000	1,100	2	4,000	1,600	3
Mississippi	29,000	37,000	2,300	6	65,000	4,100	11
Missouri	6,500	6,500	940	14	3,900	100	2
Montana	23,000	45,000	70	(Z)	6,000	-	(Z)
Nebraska	17,000	23,000	1,100	5	-	-	-
New Jersey	12,500	12,500	1,300	10	3,100	110	1
New Mexico	8,500	8,500	4,600	54	460	760	9
New York	40,000	40,000	8,000	20	560	510	1
North Carolina	26,000	30,000	4,100	14	2,200	2,800	9
North Dakota	82,000	89,000	2,400	3	2,700	1,000	1
Ohio	17,500	19,500	2,500	13	1,200	160	1
Oklahoma	16,500	17,000	1,600	9	10	-	-
Oregon	77,000	87,000	8,000	9	11,500	500	1
Pennsylvania	27,000	28,000	4,800	17	1,800	490	2
South Carolina	14,500	16,500	1,700	10	2,700	800	5
South Dakota	53,000	58,000	2,200	4	-	-	-
Tennessee	11,000	11,500	1,800	16	2,800	40	(Z)
Texas	171,000	300,000	20,000	7	62,000	8,500	3
Utah	19,000	24,000	2,600	11	900	360	2
Vermont	10,000	10,000	400	4	30	40	(Z)
Virginia	9,500	10,500	1,200	11	470	150	1
Washington	65,000	81,000	13,500	17	19,000	250	(Z)
West Virginia	5,000	6,000	600	10	40	40	1
Wisconsin	27,000	29,000	3,300	11	1,400	270	1
Wyoming	10,500	15,000	150	1	1,500	-	-
Other States ⁵	27,750	31,650	730	2	1,580	470	1
United States	2,678,250	(X)	373,880	14	384,790	113,440	4

- 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, 2023 and April-June 2023

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	14,500	15,500	2,000	13	4,200	3,800	25
Arizona	34,000	34,000	8,500	25	4,900	2,400	7
Arkansas	22,000	24,000	1,900	8	6,000	2,200	9
California	900,000	930,000	52,000	6	131,000	112,000	12
Colorado	10,000	33,000	1,100	3	4,500	1,500	5
Connecticut	4,200	4,200	230	5	690	800	19
Florida	260,000	295,000	40,000	14	56,000	23,000	8
Georgia	128,000	131,000	21,000	16	25,000	42,000	32
Idaho	82,000	132,000	7,000	5	22,000	11,000	8
Illinois	9,500	9,500	530	6	3,300	700	7
Indiana	9,000	9,500	320	3	4,100	1,500	16
Iowa	63,000	69,000	4,600	7	11,500	2,700	4
Kansas	2,600	3,500	340	10	1,500	360	10
Kentucky	8,500	9,000	550	6	960	450	5
Louisiana	39,000	39,000	2,800	7	4,700	9,000	23
Maine	7,500	15,500	1,000	6	510	1,100	7
Maryland	5,500	9,000	580	6	690	730	8
Massachusetts	7,500	10,500	1,500	14	1,300	510	5
Michigan	46,000	72,000	4,200	6	9,000	2,300	3
Minnesota	56,000	76,000	2,600	3	7,500	1,700	2
Mississippi	73,000	74,000	3,200	4	12,500	8,000	11
Missouri	9,500	9,500	390	4	4,600	910	10
Montana	51,000	97,000	4,500	5	22,000	18,500	19
Nebraska	11,000	28,000	1,200	4	10,000	1,900	7
New Jersey	14,000	16,500	720	4	1,000	520	3
New Mexico	4,300	4,300	230	5	530	250	6
New York	31,000	52,000	1,800	3	6,500	2,100	4
North Carolina	28,000	28,000	2,300	8	9,000	5,500	20
North Dakota	62,000	395,000	7,000	2	33,000	4,100	1
Ohio	18,500	18,500	1,300	7	8,500	5,000	27
Oklahoma	10,000	13,000	320	2	6,000	2,900	22
Oregon	91,000	95,000	17,500	18	29,000	31,000	33
Pennsylvania	25,000	29,000	1,700	6	8,000	2,200	8
South Carolina	17,500	17,500	1,000	6	2,300	2,600	15
South Dakota	13,000	137,000	2,500	2	8,500	25,000	18
Tennessee	12,500	13,500	920	7	3,800	2,600	19
Texas	340,000	370,000	16,000	4	85,000	118,000	32
Utah	15,500	18,500	3,700	20	9,500	2,500	14
Vermont	9,500	9,500	160	2	990	210	2
Virginia	9,000	10,500	670	6	3,800	1,300	12
Washington	87,000	123,000	14,000	11	18,500	15,500	13
West Virginia	5,500	6,500	350	5	1,400	1,000	15
Wisconsin	15,500	52,000	570	1	4,900	1,300	3
Wyoming	16,500	19,000	1,400	7	5,000	2,200	12
Other States ⁵	31,470	32,320	1,170	4	2,690	3,600	11
United States	2,710,070	(X)	237,350	9	596,360	478,440	18

(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 2022

[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	36.9	17.0	-	3.7	10.8	5.3
Arizona	14.8	-	3.0	(Z)	(Z)	0.5
Arkansas	39.8	28.1	(Z)	23.1	1.3	8.9
California	29.7	7.2	3.3	5.3	3.9	4.2
Colorado	13.5	-	3.8	0.6	3.4	2.6
Connecticut	10.2	2.3	1.4	(Z)	3.5	1.2
Florida	39.0	13.1	3.7	9.8	6.4	8.2
Georgia	41.2	17.4	0.6	5.1	5.9	3.0
Idaho	57.0	1.1	(Z)	35.5	1.4	1.3
Illinois	20.1	6.9	2.0	4.3	5.4	10.6
Indiana	28.5	11.5	1.7	3.6	9.7	5.9
Iowa	29.7	13.0	0.7	0.9	1.6	5.1
Kansas	37.8	21.8	3.7	1.7	4.2	5.1
Kentucky	15.6	3.9	3.0	2.8	5.6	11.0
Louisiana	61.1	48.1	-	-	0.6	7.6
Maine	7.3	1.2	-	-	7.0	1.2
Maryland	23.7	7.4	0.6	2.3	12.1	13.6
Massachusetts	13.4	2.9	0.7	-	1.6	2.7
Michigan	6.1	1.9	1.9	1.4	4.2	(Z)
Minnesota	1.1	-	-	(Z)	(Z)	1.0
Mississippi	53.1	12.5	6.1	2.0	1.8	8.9
Missouri	11.1	8.6	(Z)	0.5	5.3	5.2
Montana	0.5	-	-	-	(Z)	(Z)
Nebraska	3.2	-	0.7	-	(Z)	2.3
New Jersey	13.3	3.9	(Z)	-	0.6	1.8
New Mexico	48.7	(Z)	(Z)	-	0.5	(Z)
New York	16.6	4.1	(Z)	3.1	7.7	6.6
North Carolina	23.4	7.6	(Z)	-	2.4	1.0
North Dakota	33.1	-	-	-	-	(Z)
Ohio	18.0	4.8	0.7	1.7	2.2	7.2
Oklahoma	18.8	(Z)	-	-	-	(Z)
Oregon	11.4	-	-	1.4	(Z)	1.1
Pennsylvania	14.6	3.9	(Z)	0.6	3.1	3.0
South Carolina	38.0	3.8	-	(Z)	4.5	3.1
South Dakota	4.2	3.4	-	(Z)	1.8	(Z)
Tennessee	12.9	5.1	1.0	(Z)	3.3	3.0
Texas	21.2	2.1	0.6	3.6	6.0	1.5
Utah	22.2	1.5	3.0	-	(Z)	0.5
Vermont	15.2	1.9	1.3	4.0	2.7	0.5
Virginia	25.7	13.9	2.5	(Z)	12.0	7.8
Washington	8.3	4.0	3.6	-	2.6	(Z)
West Virginia	15.8	7.4	1.7	1.2	6.0	0.9
Wisconsin	7.9	(Z)	(Z)	6.5	2.0	0.5
Wyoming	2.2	-	-	-	1.2	0.8
Other States ⁴	65.6	58.9	1.0	(Z)	2.8	(Z)
United States	36.0	8.8	2.7	7.7	4.8	4.4

- 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 2022

[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	36.0	14.3	1.0	6.9	17.9	3.7
Arizona	8.4	(Z)	1.3	-	4.8	(Z)
Arkansas	20.6	12.7	2.0	9.5	6.4	3.9
California	41.1	16.2	4.8	6.6	20.3	3.7
Colorado	31.0	-	0.6	(Z)	26.5	(Z)
Connecticut	10.9	-	-	-	1.1	-
Florida	31.8	15.3	5.7	8.2	12.2	6.3
Georgia	35.9	9.0	1.4	6.1	8.3	5.7
Idaho	32.6	13.1	5.6	13.7	9.5	3.5
Illinois	18.3	7.4	3.2	1.6	7.3	10.6
Indiana	28.1	5.0	0.5	4.2	7.2	4.7
Iowa	49.3	1.1	1.6	0.9	4.6	5.7
Kansas	41.6	1.0	1.7	21.1	23.0	1.9
Kentucky	39.9	15.1	10.7	2.4	2.5	18.9
Louisiana	31.9	9.9	4.8	4.8	2.4	2.5
Maine	(Z)	-	(Z)	-	(Z)	(Z)
Maryland	19.9	7.9	2.4	0.8	14.7	1.7
Massachusetts	4.7	1.2	1.3	0.5	0.8	0.5
Michigan	10.6	(Z)	3.1	7.1	2.8	(Z)
Minnesota	4.9	0.7	(Z)	(Z)	2.6	(Z)
Mississippi	21.7	21.0	(Z)	0.7	15.2	5.8
Missouri	11.5	3.0	0.8	0.5	2.6	1.6
Montana	16.4	-	-	1.7	8.7	-
Nebraska	26.4	21.9	0.7	-	0.7	(Z)
New Jersey	7.0	0.8	0.7	0.6	(Z)	-
New Mexico	52.0	8.6	8.6	0.9	31.5	0.7
New York	23.0	3.4	0.8	(Z)	1.7	1.0
North Carolina	23.9	2.8	3.5	-	(Z)	1.0
North Dakota	38.9	22.7	0.9	4.8	9.9	0.5
Ohio	67.0	5.3	5.5	3.1	2.3	2.0
Oklahoma	18.4	2.6	-	1.4	9.8	0.7
Oregon	57.3	23.2	9.5	16.1	17.5	(Z)
Pennsylvania	19.0	3.3	0.6	(Z)	1.1	2.1
South Carolina	30.0	29.2	-	12.8	1.2	0.9
South Dakota	47.4	31.6	-	2.6	13.9	1.4
Tennessee	30.9	23.7	1.0	(Z)	24.4	1.7
Texas	37.2	28.6	(Z)	0.6	5.1	0.9
Utah	40.1	0.8	6.9	7.9	23.8	8.3
Vermont	21.2	1.5	-	0.7	1.3	(Z)
Virginia	30.8	21.7	0.9	0.6	18.1	1.7
Washington	50.8	7.3	4.3	3.4	14.2	1.6
West Virginia	13.1	7.4	3.6	-	1.0	0.9
Wisconsin	26.9	14.6	4.9	11.8	9.6	6.0
Wyoming	12.6	2.5	5.1	-	3.0	1.0
Other States ⁴	57.3	45.8	4.8	1.6	5.6	1.6
United States	47.5	21.8	4.0	6.8	15.9	3.5

- 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: July-September 2022

[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	70.7	25.7	0.5	4.2	5.5	4.0
Arizona	6.4	0.9	1.1	4.5	2.2	3.8
Arkansas	25.1	12.6	(Z)	13.0	7.0	4.8
California	30.4	7.2	4.3	6.2	9.8	7.9
Colorado	14.4	-	(Z)	-	2.2	5.4
Connecticut	9.4	3.3	0.5	1.0	4.6	(Z)
Florida	56.5	30.8	1.7	13.9	14.2	16.6
Georgia	49.4	21.4	7.0	5.6	16.3	10.1
Idaho	44.0	4.9	5.0	9.8	9.5	3.7
Illinois	37.4	20.1	0.7	11.8	1.4	10.0
Indiana	49.8	4.7	(Z)	41.2	2.9	2.3
Iowa	5.1	3.1	2.4	2.1	2.4	2.1
Kansas	50.6	7.3	2.7	30.8	2.4	17.3
Kentucky	26.1	17.2	-	-	17.5	22.3
Louisiana	51.9	17.0	0.9	(Z)	1.9	3.9
Maine	60.2	1.0	51.8	51.8	(Z)	(Z)
Maryland	61.9	36.1	4.6	4.5	3.4	3.1
Massachusetts	20.8	4.9	1.5	(Z)	7.5	(Z)
Michigan	25.4	2.8	2.1	4.6	3.5	1.7
Minnesota	10.7	1.4	(Z)	10.7	4.1	2.3
Mississippi	56.1	14.6	0.9	3.6	12.2	9.5
Missouri	20.4	13.1	(Z)	0.8	14.7	(Z)
Montana	22.1	(Z)	(Z)	3.0	7.5	0.7
Nebraska	18.3	(Z)	3.8	1.7	7.5	(Z)
New Jersey	15.4	10.1	(Z)	(Z)	0.7	7.7
New Mexico	7.3	1.1	-	1.3	2.4	1.1
New York	57.3	13.8	9.3	21.1	16.7	7.8
North Carolina	35.8	26.1	1.5	1.4	0.9	1.1
North Dakota	56.1	12.7	4.2	17.1	7.3	0.9
Ohio	41.9	16.8	(Z)	10.1	6.3	2.4
Oklahoma	27.1	1.5	0.6	10.0	8.1	1.6
Oregon	32.0	10.0	6.1	4.3	12.7	0.5
Pennsylvania	25.8	4.6	0.6	1.7	3.7	0.8
South Carolina	34.9	24.7	5.6	6.7	7.1	5.6
South Dakota	24.7	3.4	(Z)	16.8	18.1	0.5
Tennessee	27.3	20.5	10.3	8.5	11.3	10.8
Texas	12.4	11.6	(Z)	5.9	5.5	1.6
Utah	26.7	18.5	3.4	17.6	2.6	4.0
Vermont	32.4	1.0	0.7	-	2.1	0.6
Virginia	34.5	13.9	0.6	2.3	1.6	7.2
Washington	11.1	(Z)	(Z)	-	(Z)	0.7
West Virginia	14.8	9.2	3.8	3.4	(Z)	2.1
Wisconsin	20.4	7.9	7.2	6.7	5.0	6.9
Wyoming	14.1	4.4	4.9	4.9	1.5	(Z)
Other States ⁴	22.5	4.5	2.1	5.3	4.4	2.2
United States	37.3	11.4	3.4	10.0	9.3	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: October-December 2022

[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	23.1	9.7	-	0.6	5.6	6.7
Arizona	17.9	0.5	0.9	-	3.1	1.8
Arkansas	9.9	2.7	(Z)	(Z)	(Z)	0.6
California	48.6	24.8	18.8	19.0	27.1	3.4
Colorado	5.3	(Z)	(Z)	(Z)	(Z)	4.5
Connecticut	12.8	2.3	(Z)	0.7	1.2	0.6
Florida	33.2	14.7	3.5	14.2	7.8	7.0
Georgia	33.5	11.5	3.3	3.7	8.5	2.1
Idaho	17.8	2.8	2.2	4.1	2.0	10.8
Illinois	25.2	9.0	0.3	4.2	2.3	8.9
Indiana	43.1	23.4	18.2	20.7	17.1	14.8
Iowa	6.7	1.3	0.9	2.3	1.4	2.9
Kansas	70.0	2.7	-	0.8	30.1	1.8
Kentucky	20.3	5.2	-	(Z)	6.6	10.2
Louisiana	18.5	9.1	1.2	2.1	5.2	0.9
Maine	9.0	2.3	-	8.1	-	0.7
Maryland	40.9	10.9	0.9	0.6	13.4	2.2
Massachusetts	29.8	0.7	3.0	1.5	10.6	2.0
Michigan	24.9	4.3	6.3	1.5	2.6	5.3
Minnesota	9.1	(Z)	(Z)	3.0	0.9	1.1
Mississippi	13.0	1.7	0.5	5.0	5.4	4.7
Missouri	12.5	8.8	-	-	2.2	1.0
Montana	27.8	8.8	1.3	7.3	0.7	-
Nebraska	31.4	12.9	10.9	(Z)	-	7.4
New Jersey	15.0	6.1	(Z)	(Z)	0.5	4.1
New Mexico	20.3	5.0	4.8	1.6	1.4	1.1
New York	59.3	38.8	19.1	19.5	41.1	3.4
North Carolina	13.5	6.4	3.1	3.6	3.7	(Z)
North Dakota	35.6	12.2	1.6	4.3	0.9	2.5
Ohio	15.2	8.2	(Z)	(Z)	2.2	2.6
Oklahoma	10.4	1.1	-	1.3	0.9	(Z)
Oregon	63.4	25.5	19.8	15.8	3.3	1.7
Pennsylvania	49.4	12.6	1.5	7.1	3.1	4.9
South Carolina	23.6	2.4	-	0.5	4.9	1.4
South Dakota	67.1	30.7	5.0	11.4	9.4	(Z)
Tennessee	24.4	7.6	2.5	0.7	1.0	3.1
Texas	14.0	12.8	4.3	4.3	3.8	3.0
Utah	9.2	3.2	2.1	(Z)	(Z)	(Z)
Vermont	12.0	3.2	1.1	0.6	-	-
Virginia	43.3	20.9	(Z)	-	6.4	3.9
Washington	34.0	6.4	-	(Z)	4.2	8.2
West Virginia	33.4	3.8	0.8	-	6.4	0.5
Wisconsin	23.2	21.4	19.4	17.5	9.9	11.7
Wyoming	22.9	5.9	4.2	-	-	7.4
Other States ⁴	22.4	18.5	(Z)	(Z)	-	0.7
United States	44.3	19.8	10.3	12.4	14.2	4.7

- 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 2023

[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	31.9	18.3	0.7	1.5	9.9	8.3
Arizona	72.9	-	-	(Z)	(Z)	0.5
Arkansas	62.2	51.4	5.3	24.7	2.0	5.9
California	48.7	18.2	11.3	14.1	23.0	16.7
Colorado	1.8	-	-	(Z)	0.9	1.4
Connecticut	10.8	1.8	-	0.1	2.8	7.2
Florida	28.1	11.1	3.5	5.6	4.2	8.5
Georgia	31.2	1.3	(Z)	7.7	1.7	7.4
Idaho	12.1	2.8	(Z)	5.3	1.2	6.0
Illinois	21.5	9.0	0.6	0.9	10.5	10.0
Indiana	24.8	4.5	(Z)	-	6.0	2.3
Iowa	26.9	1.0	1.3	2.2	1.4	3.2
Kansas	20.9	2.7	0.8	5.4	8.9	2.7
Kentucky	16.6	5.9	0.6	1.7	3.2	9.4
Louisiana	48.2	10.0	2.4	2.0	2.9	6.0
Maine	16.8	-	-	1.5	0.8	2.5
Maryland	16.4	4.7	2.5	-	7.3	3.9
Massachusetts	9.6	2.7	1.5	-	5.2	1.8
Michigan	6.5	0.6	0.5	1.2	1.1	1.7
Minnesota	9.2	(Z)	0.8	(Z)	1.3	1.4
Mississippi	19.6	9.6	1.1	7.5	15.4	2.7
Missouri	12.7	4.3	-	-	3.6	9.5
Montana	0.6	-	-	(Z)	-	(Z)
Nebraska	8.2	(Z)	(Z)	-	4.3	(Z)
New Jersey	20.0	6.7	(Z)	-	1.7	3.8
New Mexico	84.2	(Z)	64.8	1.0	0.9	1.4
New York	33.5	10.3	22.6	1.4	3.9	4.9
North Carolina	22.5	6.1	(Z)	(Z)	4.5	2.5
North Dakota	16.2	-	-	(Z)	0.6	-
Ohio	37.8	10.6	-	11.5	20.1	4.3
Oklahoma	4.7	1.1	-	(Z)	2.8	(Z)
Oregon	28.7	13.1	6.0	(Z)	11.4	2.0
Pennsylvania	20.9	4.6	2.5	0.7	2.0	7.7
South Carolina	32.2	7.3	-	(Z)	10.4	7.4
South Dakota	2.7	Z	(Z)	(Z)	1.8	1.0
Tennessee	39.8	5.5	0.9	1.0	7.0	4.9
Texas	11.3	6.7	(Z)	7.6	9.7	1.1
Utah	32.4	19.4	19.0	19.0	2.8	2.0
Vermont	3.1	(Z)	(Z)	(Z)	-	1.6
Virginia	22.6	10.5	(Z)	(Z)	4.2	4.8
Washington	12.1	2.4	2.3	2.5	6.4	4.5
West Virginia	14.5	2.8	1.0	1.1	2.0	3.4
Wisconsin	15.0	0.9	0.8	0.5	2.7	7.2
Wyoming	1.4	-	-	-	1.4	(Z)
Other States ⁴	27.2	19.0	13.6	(Z)	1.1	(Z)
United States	39.7	13.6	7.4	10.1	14.8	11.2

- 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 2023

[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	37.1	10.4	2.1	1.0	4.4	9.1
Arizona	15.4	Z	2.1	-	0.7	(Z)
Arkansas	22.4	13.1	2.8	7.4	1.9	3.1
California	41.6	3.3	4.0	4.5	11.3	4.1
Colorado	64.4	5.1	5.5	1.3	0.7	(Z)
Connecticut	66.3	4.9	0.8	-	2.7	0.7
Florida	49.5	21.8	7.1	18.2	15.1	7.7
Georgia	30.2	12.2	2.4	3.9	9.8	7.1
Idaho	40.9	6.7	5.9	5.7	1.3	1.4
Illinois	25.6	13.3	3.2	6.8	6.7	3.7
Indiana	23.8	5.6	1.6	7.4	18.3	3.0
Iowa	17.9	2.6	4.5	9.9	5.1	(Z)
Kansas	35.5	2.0	0.1	21.7	3.4	2.0
Kentucky	8.0	2.9	1.0	1.3	0.5	5.6
Louisiana	32.0	3.6	(Z)	17.5	24.7	0.8
Maine	10.6	(Z)	3.9	4.7	(Z)	-
Maryland	11.7	0.6	(Z)	-	0.5	4.5
Massachusetts	28.2	(Z)	0.7	(Z)	10.6	1.6
Michigan	16.5	1.7	1.8	2.1	3.3	10.3
Minnesota	13.0	2.1	(Z)	10.1	1.1	7.7
Mississippi	12.6	3.5	1.0	3.2	9.1	2.4
Missouri	13.1	6.4	0.8	0.5	4.8	3.4
Montana	23.7	(Z)	2.1	2.9	6.5	(Z)
Nebraska	26.8	3.9	0.6	0.5	0.6	3.7
New Jersey	13.2	3.6	0.8	(Z)	2.5	1.1
New Mexico	4.0	0.6	1.3	0.7	1.1	(Z)
New York	24.7	9.1	2.2	2.3	9.3	(Z)
North Carolina	28.8	8.8	0.9	(Z)	1.6	2.5
North Dakota	60.5	6.9	2.7	6.9	1.3	(Z)
Ohio	65.3	33.5	0.7	5.7	1.0	4.4
Oklahoma	4.0	0.9	-	-	0.7	(Z)
Oregon	27.9	9.3	3.5	14.3	4.3	(Z)
Pennsylvania	13.8	7.2	2.7	6.9	1.1	1.1
South Carolina	32.2	5.7	0.7	(Z)	15.8	2.7
South Dakota	13.7	7.1	(Z)	5.8	1.4	0.8
Tennessee	13.3	1.5	-	(Z)	2.8	1.8
Texas	46.8	42.3	10.9	12.1	30.1	10.2
Utah	55.0	33.6	25.5	28.0	28.6	(Z)
Vermont	9.7	0.5	-	0.8	(Z)	1.2
Virginia	23.3	7.5	0.8	-	6.6	3.0
Washington	41.6	1.0	6.1	9.2	4.3	(Z)
West Virginia	31.1	3.2	1.8	-	1.8	0.8
Wisconsin	67.2	9.8	47.8	49.2	48.1	46.8
Wyoming	17.2	10.9	Z	-	2.3	2.5
Other States ⁴	10.6	3.5	3.3	2.1	0.5	(Z)
United States	50.9	13.9	6.5	10.5	13.6	6.0

- 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.

Colonies Lost with Colony Collapse Disorder Symptoms with Five or More Colonies – United States: 2022 and 2023

[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)
2022	86,070	51,390	68,620	93,550
2023	107,630	54,730		

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.

Nucleus colony (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

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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
Shulonda Shaw – Cold Storage, Capacity of Refrigerated Warehouses	(202) 720-3240
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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