



United States Department of Agriculture  
National Agricultural Statistics Service



**Delta Region Honey Bee Colonies**

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**Delta Regional Office** (serving Arkansas, Louisiana, and Mississippi)  
10800 Financial Centre Parkway, Suite 110, Little Rock, Arkansas 72211  
(501) 228-9926 · (855) 270-2705 FAX · [www.nass.usda.gov](http://www.nass.usda.gov)

**Cooperating with the University of Arkansas – Division of Agriculture, Louisiana Department of Agriculture and Forestry, and Mississippi Department of Agriculture and Commerce**

This report contains the results from the **Quarterly Colony Loss Surveys**. These data are also posted in a more detailed report at <https://www.nass.usda.gov>. Thanks to all who responded to these surveys.

**January 1, 2022 Honey Bee Colonies Down 29 Percent for Operations with Five or More Colonies**

Honey bee colonies for operations with five or more colonies in the Delta Region on January 1, 2022 totaled 73,500 colonies. This is 29 percent below from 103,000 colonies on January 1, 2021. On April 1, 2022, honey bee operations in the Delta Region totaled 108,000 colonies. During 2021, honey bee colonies for the Delta Region on January 1, April 1, July 1, and October 1 were 103,000 colonies, 75,500 colonies, 67,500 colonies, and 63,500 colonies, respectively.

Honey bee colonies lost for operations with five or more colonies from January through March 2022 was 11,900 colonies, or 12 percent, in the Delta Region. The number of colonies lost during the quarter of April through June 2022 was 8,700 colonies, or 8 percent.

**Colonies, Maximum, Lost, Percent Lost, Added, Renovated, and Percent Renovated with Five or More Colonies – Delta Region and United States: January 1, 2022, January-March 2022, April 1, 2022, and April-June 2022**

State	January 1 colonies	January-March					
		Maximum colonies <sup>1</sup>	Lost colonies	Percent lost <sup>2</sup>	Added colonies	Renovated colonies <sup>3</sup>	Percent renovated <sup>4</sup>
	(number)	(number)	(number)	(percent)	(number)	(number)	(percent)
Arkansas .....	18,500	21,000	2,600	12	780	20	(Z)
Louisiana .....	35,000	42,000	6,000	14	7,000	2,200	5
Mississippi .....	20,000	38,000	3,300	9	12,000	2,100	6
United States .....	2,875,770	(X)	331,780	12	367,890	187,180	7
State	April 1 colonies	April-June					
		Maximum colonies <sup>1</sup>	Lost colonies	Percent lost <sup>2</sup>	Added colonies	Renovated colonies <sup>3</sup>	Percent renovated <sup>4</sup>
	(number)	(number)	(number)	(percent)	(number)	(number)	(percent)
Arkansas .....	19,000	22,000	2,800	13	5,000	1,100	5
Louisiana .....	43,000	43,000	1,900	4	8,500	11,500	27
Mississippi .....	46,000	47,000	4,000	9	16,000	7,000	15
United States .....	2,921,590	(X)	282,630	10	589,630	492,410	17

(X) Not applicable.

(Z) Less than half of the unit shown.

<sup>1</sup> Number of colonies on the first day of the quarter plus all colonies moved into that state during the quarter.

<sup>2</sup> 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 number of colonies on the first day of the quarter.

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

<sup>4</sup> 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 number of colonies on the first day of the quarter.

**Colony Health Stressors with Five or More Colonies – Delta Region and United States:  
January-March 2021, April-June 2021, July-September 2021, October-December 2021,  
January-March 2022, and April-June 2022**

State	January-March 2021					
	Varroa mites	Other pests and parasites <sup>1</sup>	Diseases <sup>2</sup>	Pesticides	Other <sup>3</sup>	Unknown
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Arkansas .....	27.2	18.3	(Z)	13.2	3.8	2.5
Louisiana .....	62.1	3.8	-	1.6	10.0	1.1
Mississippi .....	19.7	3.8	-	1.0	15.5	4.7
United States .....	33.0	8.9	2.3	6.4	6.7	3.4
State	April-June 2021					
	Varroa mites	Other pests and parasites <sup>1</sup>	Diseases <sup>2</sup>	Pesticides	Other <sup>3</sup>	Unknown
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Arkansas .....	42.2	21.9	5.7	2.8	2.0	3.6
Louisiana .....	29.1	3.7	(Z)	2.8	10.6	0.9
Mississippi .....	46.7	11.3	3.2	0.5	3.2	9.9
United States .....	50.7	12.8	5.2	12.4	10.0	3.9
State	July -September 2021					
	Varroa mites	Other pests and parasites <sup>1</sup>	Diseases <sup>2</sup>	Pesticides	Other <sup>3</sup>	Unknown
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Arkansas .....	42.3	32.9	3.2	30.6	5.8	4.9
Louisiana .....	8.0	2.3	-	-	0.6	6.0
Mississippi .....	25.3	1.1	1.3	(Z)	3.0	7.8
United States .....	38.0	11.6	5.5	9.2	9.3	4.5
State	October-December 2021					
	Varroa mites	Other pests and parasites <sup>1</sup>	Diseases <sup>2</sup>	Pesticides	Other <sup>3</sup>	Unknown
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Arkansas .....	35.7	28.2	-	25.6	0.6	0.7
Louisiana .....	28.2	5.4	-	(Z)	(Z)	5.3
Mississippi .....	27.8	8.6	-	5.8	(Z)	8.3
United States .....	33.6	10.6	3.9	5.6	5.4	4.7
State	January-March 2022					
	Varroa mites	Other pests and parasites <sup>1</sup>	Diseases <sup>2</sup>	Pesticides	Other <sup>3</sup>	Unknown
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Arkansas .....	39.8	28.1	-	13.1	1.3	8.9
Louisiana .....	61.1	48.1	-	-	0.6	7.6
Mississippi .....	39.7	13.2	6.5	2.0	1.8	9.4
United States .....	33.7	8.4	2.5	5.8	4.5	4.2
State	April-June 2022					
	Varroa mites	Other pests and parasites <sup>1</sup>	Diseases <sup>2</sup>	Pesticides	Other <sup>3</sup>	Unknown
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Arkansas .....	22.2	14.4	2.0	11.2	6.5	3.8
Louisiana .....	30.6	9.5	4.6	4.6	2.3	2.4
Mississippi .....	25.4	15.3	(Z)	0.7	15.2	8.9
United States .....	45.2	21.2	3.9	6.7	15.1	3.5

- Represents zero.

(Z) Less than half of the unit shown.

<sup>1</sup> Tracheal mites, nosema, hive beetle, wax moths, etc.

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

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