



Degree of Brood Comb Replacement By Region

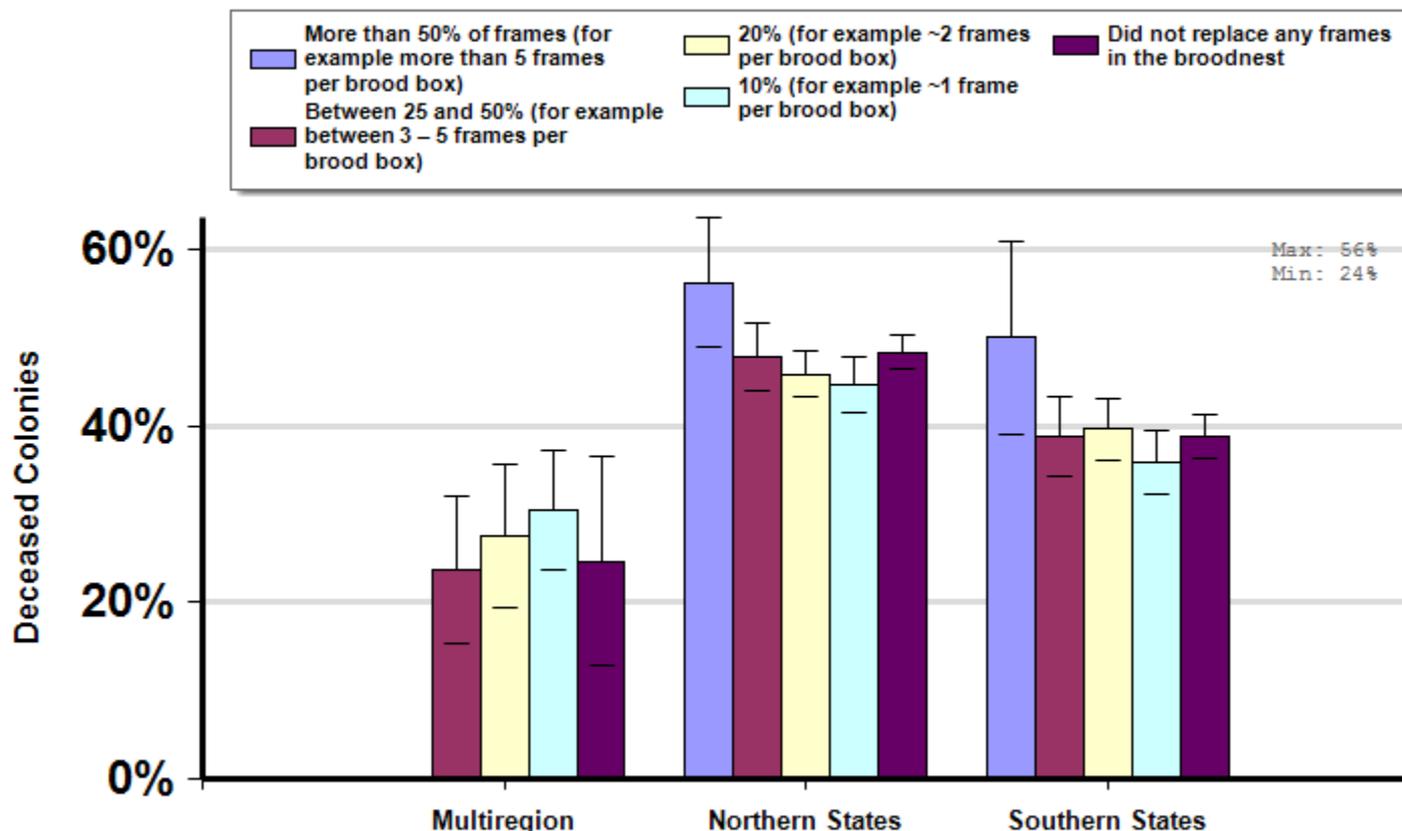
Management Survey 2013

Average winter colony mortality suffered by beekeepers who replaced different percentages of their brood nest comb the previous year by region of operation.

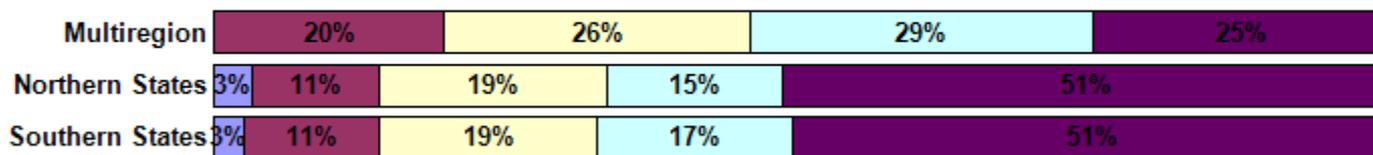
Winter

Report ID: 152-2013

Some Significant Differences (within regions)



Respondent Ratio



Interpretation

Beekeepers in the North who replaced more than 50% of the brood nest reported losing more overwintering colonies than those who replaced 10-20% of brood frames in their colonies. There was no statistical difference for beekeepers who kept colonies in the Southern States or in multiple regions.

Survey Question

On average, how many frames from the brood nest of your colonies did you replace last year?

- Did not replace any frames in the brood nest
- 10% (for example ~1 frame per box)
- 20% (for example ~2 frames per brood box)

- Between 25 and 50% (for example ~3-5 frames per brood box)
- More than 50% of frames (for example more than 5 frames per brood box)

		Total Number of Respondents Providing Valid Responses	Total Number of Colonies Managed	Average Number of Colonies Managed		Average Colony Loss
				Mean	Standard Error	Mean(%) [Lower, Upper] CI
Multiregion	Between 25 and 50% (for example between 3 - 5 frames per brood box)	25	76,148	3045.9	1154.3	23.6 [15.2, 31.9]
	20% (for example ~2 frames per brood box)	33	149,263	4523.1	2228.6	27.5 [19.4, 35.6]
	10% (for example ~1 frame per brood box)	37	145,290	3926.8	866.2	30.5 [23.8, 37.2]
	Did not replace any frames in the broodnest	32	26,886	840.2	432.8	24.7 [12.9, 36.5]
Northern States	More than 50% of frames (for example more than 5 frames per brood box)	99	725	7.3	1.7	56.2 [48.9, 63.5]
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	319	6,750	21.2	3.8	47.8 [43.9, 51.7]
	20% (for example ~2 frames per brood box)	576	10,255	17.8	2.6	45.8 [43.2, 48.5]
	10% (for example ~1 frame per brood box)	447	19,595	43.8	16.8	44.7 [41.6, 47.8]
	Did not replace any frames in the	1,529	16,150	10.6	2.6	48.4 [46.4, 50.3]

	broodnest					
Southern States	More than 50% of frames (for example more than 5 frames per brood box)	42	6,598	157.1	144.3	50.0 [39.0, 60.9]
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	184	10,766	58.5	27.8	38.8 [34.3, 43.4]
	20% (for example ~2 frames per brood box)	297	17,968	60.5	17.5	39.6 [36.0, 43.2]
	10% (for example ~1 frame per brood box)	267	28,427	106.5	34.0	35.8 [32.2, 39.4]
	Did not replace any frames in the broodnest	811	23,323	28.8	15.2	38.8 [36.2, 41.3]

Comments About This Data

Relevant Links, References, and Citations

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