



# Degree of Brood Comb Replacement By Region

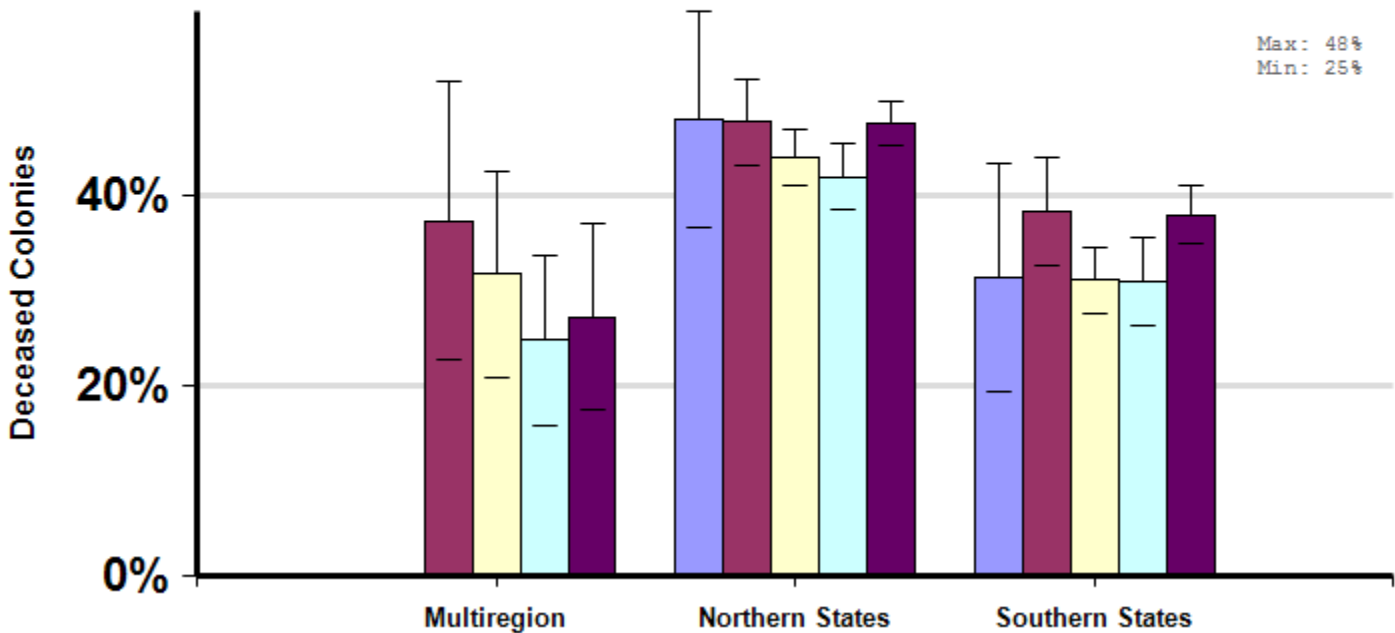
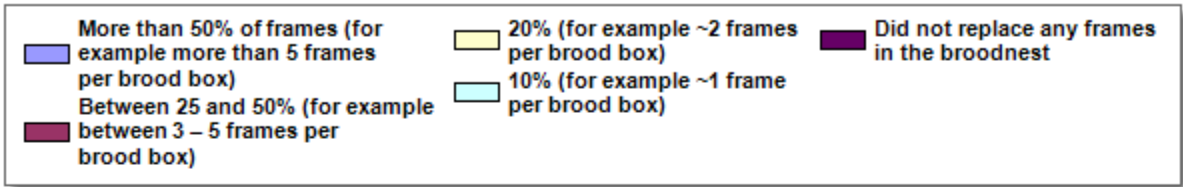
Management Survey 2015

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

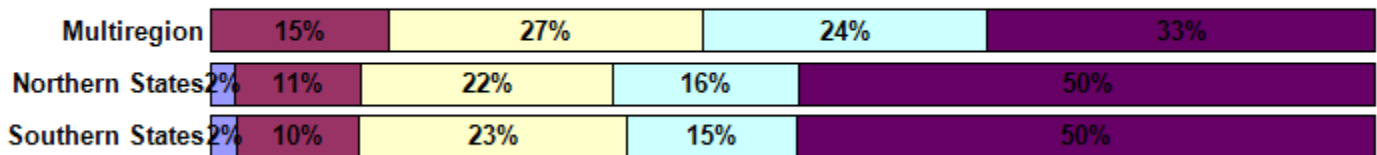
## Winter

Report ID: 152-2015

### Some Significant Differences (within regions)



## Respondent Ratio



## Interpretation

Southern beekeepers who replaced 2 frames per brood box reported 6.8 fewer overwintering colony deaths out of 100 managed colonies than southern beekeepers who did not replace any frames in the brood nest. In other words, southern beekeepers who replaced 20% of comb in their brood nest lost 17.9% fewer colonies than southern beekeepers who did not replace any.

## 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)	17	39,684	2334.4	1201.1	37.4 [22.8,52.0]
	20% (for example ~2 frames per brood box)	30	45,918	1530.6	453.3	31.7 [20.9,42.5]
	10% (for example ~1 frame per brood box)	27	73,407	2718.8	955.0	24.8 [15.9,33.6]
	Did not replace any frames in the broodnest	37	599	16.2	7.8	27.2 [17.4,37.0]
Northern States	More than 50% of frames (for example more than 5 frames per brood box)	49	372	7.6	1.7	48.0 [36.7,59.3]
	Between 25 and 50% (for example between 3 – 5 frames per brood box)	248	2,999	12.1	1.6	47.8 [43.2,52.3]
	20% (for example ~2 frames per brood box)	502	18,686	37.2	17.4	44.0 [41.0,46.9]
	10% (for example ~1 frame per brood box)	365	13,316	36.5	18.3	42.0 [38.5,45.4]
	Did not replace any frames in the broodnest	1,144	6,072	5.3	0.8	47.6 [45.3,49.9]
Southern States	More than 50% of frames (for example more than 5 frames per brood box)	28	231	8.3	2.3	31.4 [19.3,43.4]
	Between 25 and 50% (for example between 3 – 5 frames per brood box)	123	2,004	16.3	2.5	38.3 [32.6,44.0]
	20% (for example ~2 frames per brood box)	272	14,122	51.9	20.3	31.1 [27.7,34.5]
	10% (for example	173	18,557	107.3	72.1	31.0 [26.3,35.7]

~1 frame per brood box)						
Did not replace any frames in the broodnest	589	3,026	5.1	0.4		37.9 [34.9,41.0]

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## Comments About This Data

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## Relevant Links, References, and Citations

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