



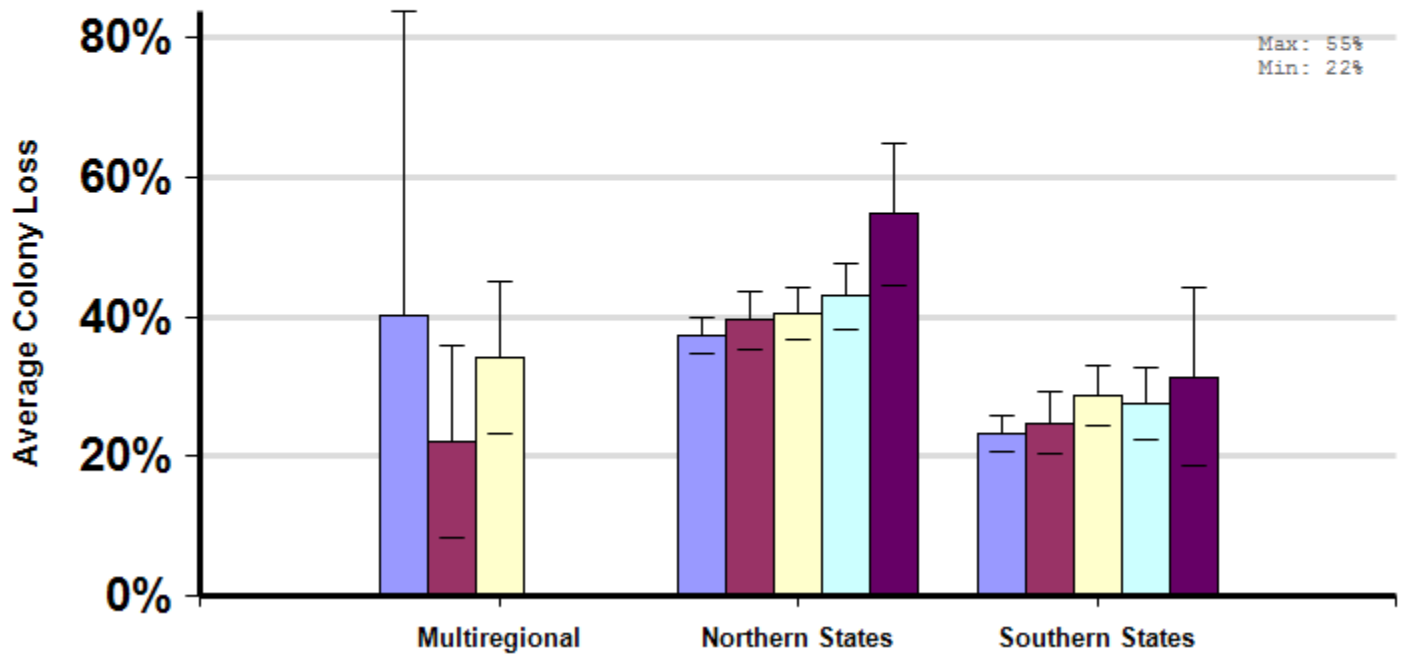
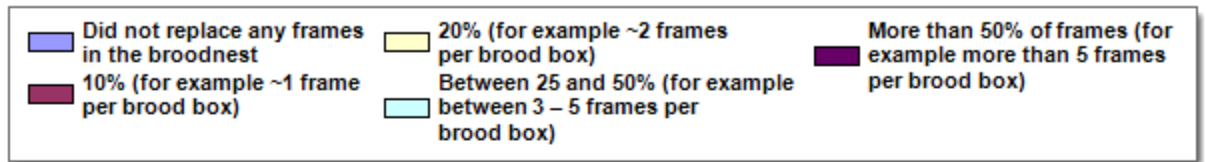
Degree of Brood Comb Replacement By Region

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

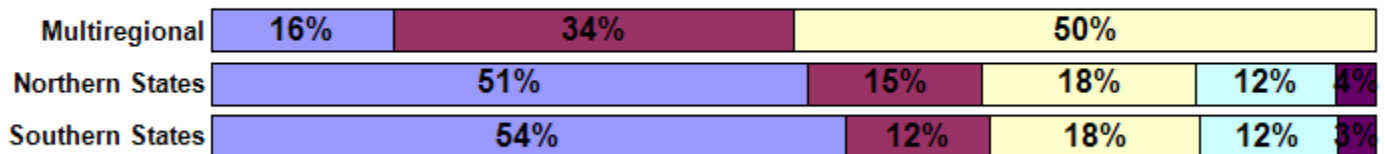
Winter

Report ID: 152

Some Significant Differences (within regions)



Respondent Ratio



Interpretation

Beekeepers in northern states who replaced 50% or more of the comb in their colonies lost on average 17.2 more colonies per hundred than those who did not replace any of the combs in their brood chambers.

Survey Question

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

Did not replace any frames

10% (for example ~1 frame per brood box)

20% (for example ~2 frames per brood box)

Between 25 and 50% (for example between 3 – 5 frames per brood box)

More than 50% of frames (more than 5 frames per brood box)

Don't know
Other (please specify)

		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 95% CI	Upper 95% CI
Multiregional	Did not replace any frames in the broodnest	5	13,550	2710.0	945.2	40.3	0.0	83.8
	10% (for example ~1 frame per brood box)	11	21,191	1926.5	565.9	22.1	8.4	35.8
	20% (for example ~2 frames per brood box)	16	128,757	8047.3	5224.8	34.1	23.3	44.9
Northern States	Did not replace any frames in the broodnest	874	6,195	7.1	1.1	37.2	34.6	39.8
	10% (for example ~1 frame per brood box)	256	5,739	22.4	4.6	39.5	35.4	43.6
	20% (for example ~2 frames per brood box)	313	3,861	12.3	1.2	40.4	36.6	44.1
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	204	6,266	30.7	17.9	42.9	38.2	47.6
	More than 50% of frames (for example more than 5 frames per brood box)	60	947	15.8	3.6	54.7	44.4	64.9

Southern States	Did not replace any frames in the brood nest	624	9,064	14.5	4.3	23.3	20.8	25.8
	10% (for example ~1 frame per brood box)	142	3,811	26.8	10.3	24.7	20.2	29.3
	20% (for example ~2 frames per brood box)	205	12,173	59.4	19.1	28.7	24.5	32.9
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	136	16,813	123.6	90.4	27.4	22.3	32.6
	More than 50% of frames (for example more than 5 frames per brood box)	38	636	16.7	6.3	31.3	18.6	44.0

Comments About This Data

This survey was not designed to determine the cause of differences between mortality. That these differences were most pronounced in northern states suggests large amounts of comb replacement maybe detrimental to overwintering survivorship.

Relevant Links, References, and Citations

Funded By:



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

This information is for educational purposes only. References to commercial products or trade names do not imply endorsement by the Bee Informed Partnership or its members. The results presented here are the summary of the population who responded. The sample may not be representative of the beekeeping population at large. These results simply highlight differences in the sample population. The results cannot be considered conclusive, causative, protective, or attest to product efficacy or lack of efficacy.