



Degree of Brood Comb Replacement By Region

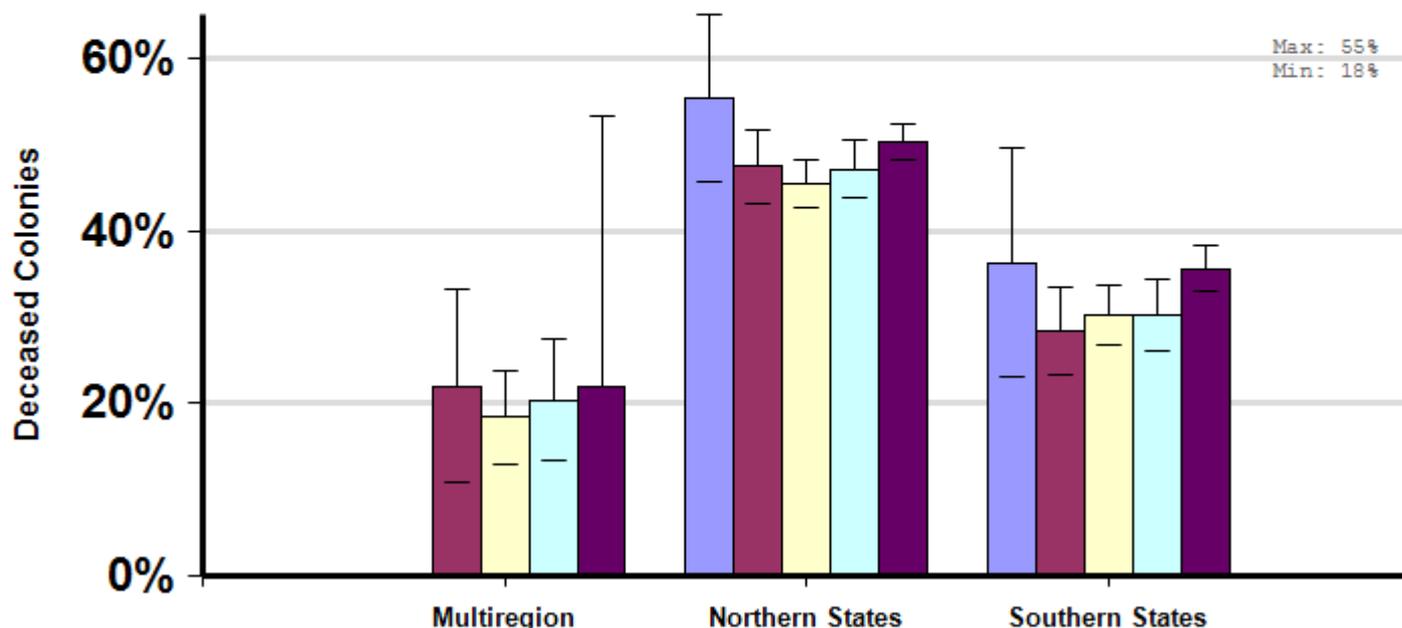
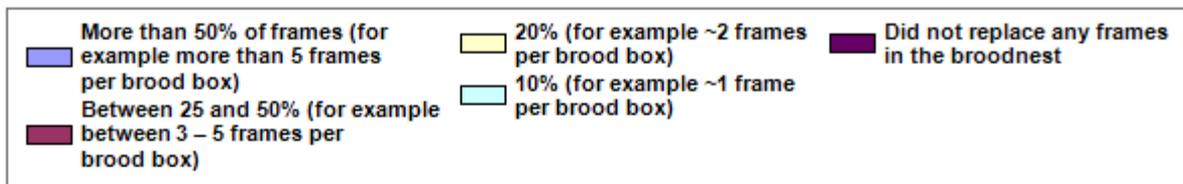
Management Survey 2014

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

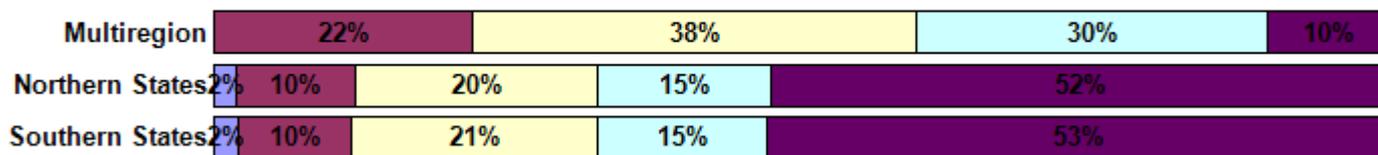
Winter

Report ID: 152-2014

Some Significant Differences (within regions)



Respondent Ratio



Interpretation

Beekeepers in the North who replaced 20% of the brood nest reported losing 4.8 fewer overwintering colonies (9.6% less deaths) than those who did not replace any brood frames in their colonies.

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	97,933	5760.8	3922.0	22.0 [10.7, 33.3]
	20% (for example ~2 frames per brood box)	29	126,844	4373.9	879.3	18.4 [12.9, 23.9]
	10% (for example ~1 frame per brood box)	23	89,799	3904.3	721.8	20.3 [13.3, 27.3]
	Did not replace any frames in the broodnest	8	1,890	236.3	223.4	21.9 [0.0, 53.3]
Northern States	More than 50% of frames (for example more than 5 frames per brood box)	58	377	6.5	0.9	55.3 [45.6, 65.0]
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	289	5,260	18.2	4.4	47.4 [43.1, 51.7]
	20% (for example ~2 frames per brood box)	588	12,772	21.7	7.4	45.4 [42.6, 48.3]
	10% (for example ~1 frame per brood box)	428	12,445	29.1	5.1	47.2 [43.9, 50.4]
	Did not replace any frames in the	1,506	6,267	4.2	0.2	50.2 [48.1, 52.3]

	broodnest						
Southern States	More than 50% of frames (for example more than 5 frames per brood box)	29	583	20.1	15.6	36.3 [23.1, 49.5]	
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	137	2,334	17.0	3.0	28.4 [23.3, 33.4]	
	20% (for example ~2 frames per brood box)	295	16,297	55.2	27.0	30.2 [26.7, 33.6]	
	10% (for example ~1 frame per brood box)	205	16,466	80.3	44.2	30.2 [25.9, 34.4]	
	Did not replace any frames in the broodnest	746	7,829	10.5	5.5	35.6 [32.9, 38.3]	

Comments About This Data

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.