



Degree of Brood Comb Replacement By Region

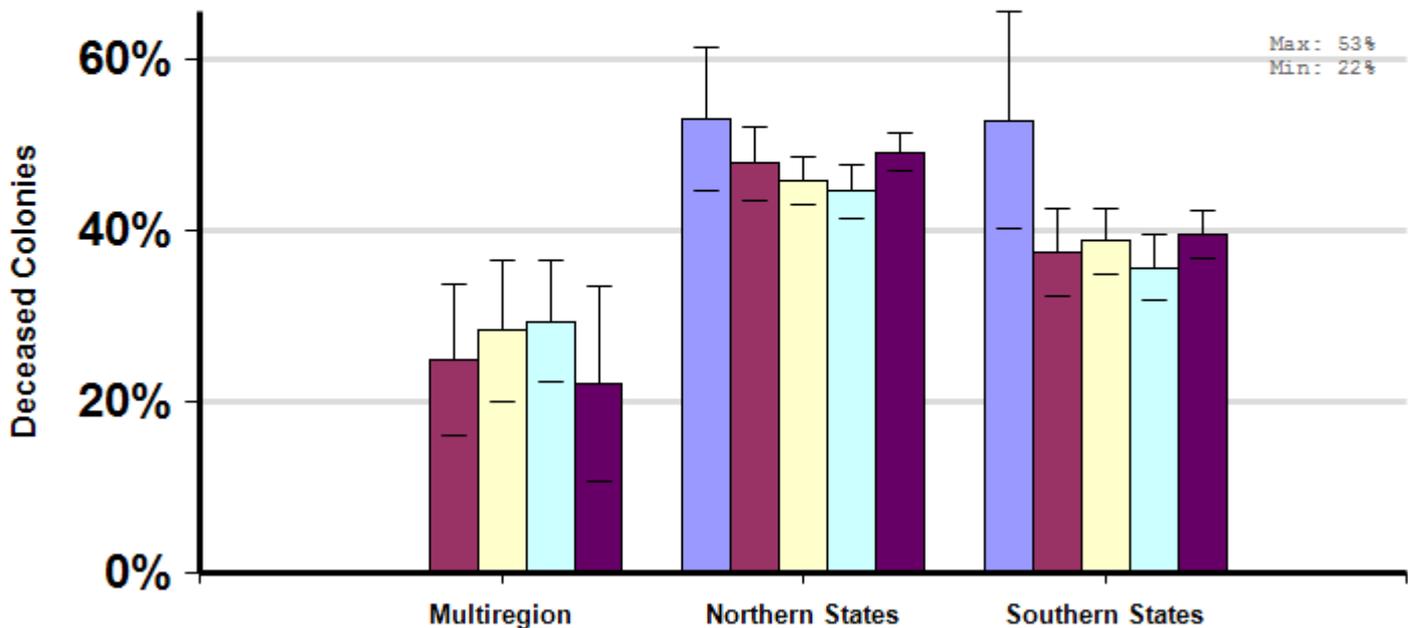
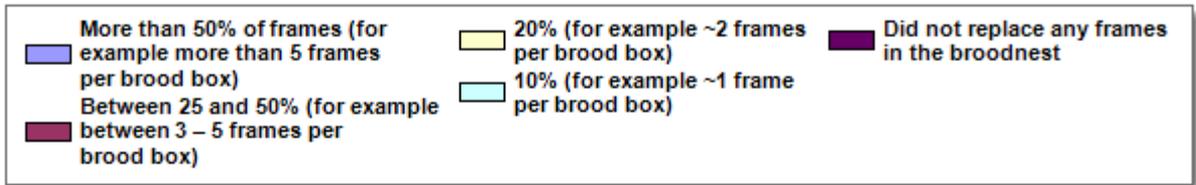
Management Survey 2013

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

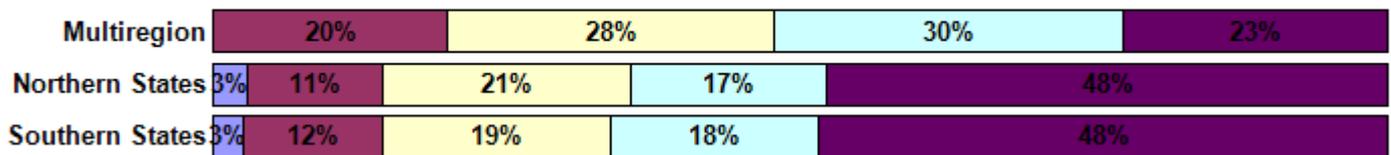
Winter

Report ID: 152-2013

Some Significant Differences (within regions)



Respondent Ratio



Interpretation

Beekeepers in the South who replaced more than 50% of the brood nest reported losing 17.2 more overwintering colonies (32.6% more deaths) than those only replaced 10% of brood frames in their colonies. There was no statistical difference for beekeepers who kept colonies in the Northern 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)	23	75,573	3285.8	1243.8	24.9 [16.1,33.8]
	20% (for example ~2 frames per brood box)	32	149,240	4663.8	2294.8	28.2 [20.0,36.5]
	10% (for example ~1 frame per brood box)	34	134,272	3949.2	904.9	29.4 [22.3,36.5]
	Did not replace any frames in the broodnest	26	26,836	1032.2	527.3	22.0 [10.7,33.4]
Northern States	More than 50% of frames (for example more than 5 frames per brood box)	70	638	9.1	2.4	53.0 [44.6,61.3]
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	269	5,838	21.7	4.2	47.8 [43.6,52.0]
	20% (for example ~2 frames per brood box)	498	6,617	13.3	1.2	45.8 [42.9,48.6]
	10% (for example ~1 frame per brood box)	392	17,491	44.6	18.9	44.5 [41.3,47.8]
	Did not replace any frames in the	1,123	14,236	12.7	3.6	49.1 [46.8,51.3]

	broodnest					
Southern States	More than 50% of frames (for example more than 5 frames per brood box)	34	471	13.9	4.1	52.8 [40.2,65.4]
	Between 25 and 50% (for example between 3 - 5 frames per brood box)	157	9,773	62.2	32.5	37.4 [32.4,42.4]
	20% (for example ~2 frames per brood box)	257	9,925	38.6	12.8	38.7 [34.8,42.6]
	10% (for example ~1 frame per brood box)	234	27,842	119.0	38.8	35.6 [31.8,39.4]
	Did not replace any frames in the broodnest	642	22,281	34.7	19.2	39.5 [36.6,42.3]

Comments About This Data

Relevant Links, References, and Citations

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