



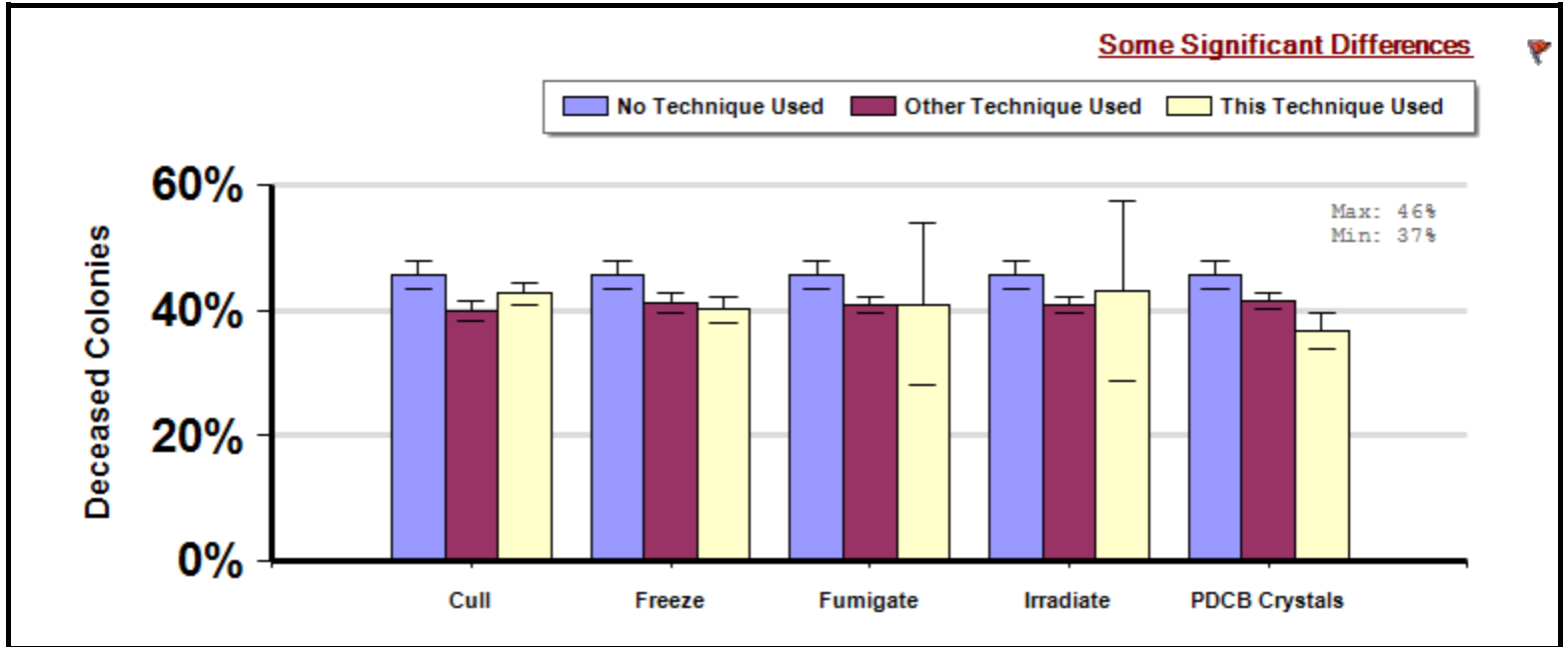
Brood Comb Treatment Before Reuse

Management Survey 2015

Average winter colony mortality reported by beekeepers who treated brood comb differently before re-using them between April and March.

Winter

Report ID: 74-2015



Interpretation

Beekeepers who reported freezing, or using paradichlorobenzene (PDCB) crystals lost significantly fewer overwintering colonies than beekeepers who did not treat the comb in any particular way. To explain further, beekeepers who froze their comb before reuse saw 5.4 less overwintering deaths out of 100 managed colonies (11.9% fewer losses) than beekeepers who did not use any technique. Also, beekeepers who used PDCB crystals on removed brood comb lost 8.8 fewer colonies out of 100 managed colonies (19.3% fewer losses) than beekeepers who did not use any technique. Beekeepers who reported culling, fumigating or irradiating their brood comb after removal did not suffer fewer or greater losses than beekeepers who did not use these techniques.

Survey Question

Between April, 2014 and March, 2015, before you re-used brood comb that you had taken out of production or purchased, did you...

Check all that apply

- I did not reuse any old brood comb
- Cull any particularly old or bad combs and replace them
- Irradiate the comb
- Fumigate the comb with acetic acid
- Freeze the comb
- Store the comb with paradichlorobenzene crystals
- Did not treat the comb in any particular way
- Other (please specify)

		Total Number of Respondents	Total Number of Colonies Managed	Average Number of Colonies Managed	Average Colony Loss
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		Providing Valid Responses				
				Mean	Standard Error	Mean(%) [Lower, Upper] CI
Cull	No Technique Used	994	53,343	53.7	11.4	45.5 [43.3, 47.8]
	Other Technique Used	2,078	59,197	28.5	10.6	39.8 [38.2, 41.4]
	This Technique Used	1,468	243,175	165.7	49.9	42.7 [41.0, 44.4]
Freeze	No Technique Used	994	53,343	53.7	11.4	45.5 [43.3, 47.8]
	Other Technique Used	2,229	217,658	97.6	32.3	41.2 [39.7, 42.8]
	This Technique Used	1,212	72,454	59.8	21.4	40.1 [38.2, 42.0]
Fumigate	No Technique Used	994	53,343	53.7	11.4	45.5 [43.3, 47.8]
	Other Technique Used	3,362	283,387	84.3	22.7	40.9 [39.7, 42.1]
	This Technique Used	17	822	48.4	28.1	40.9 [28.0, 53.9]
Irradiate	No Technique Used	994	53,343	53.7	11.4	45.5 [43.3, 47.8]
	Other Technique Used	3,358	271,532	80.9	22.4	40.9 [39.6, 42.1]
	This Technique Used	22	12,716	578.0	548.8	43.1 [28.8, 57.5]
PDCB Crystals	No Technique Used	994	53,343	53.7	11.4	45.5 [43.3, 47.8]
	Other Technique Used	2,972	270,177	90.9	25.6	41.5 [40.2, 42.8]
	This Technique Used	441	22,089	50.1	16.7	36.7 [33.8, 39.5]

Comments About This Data

Relevant Links, References, and Citations

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