



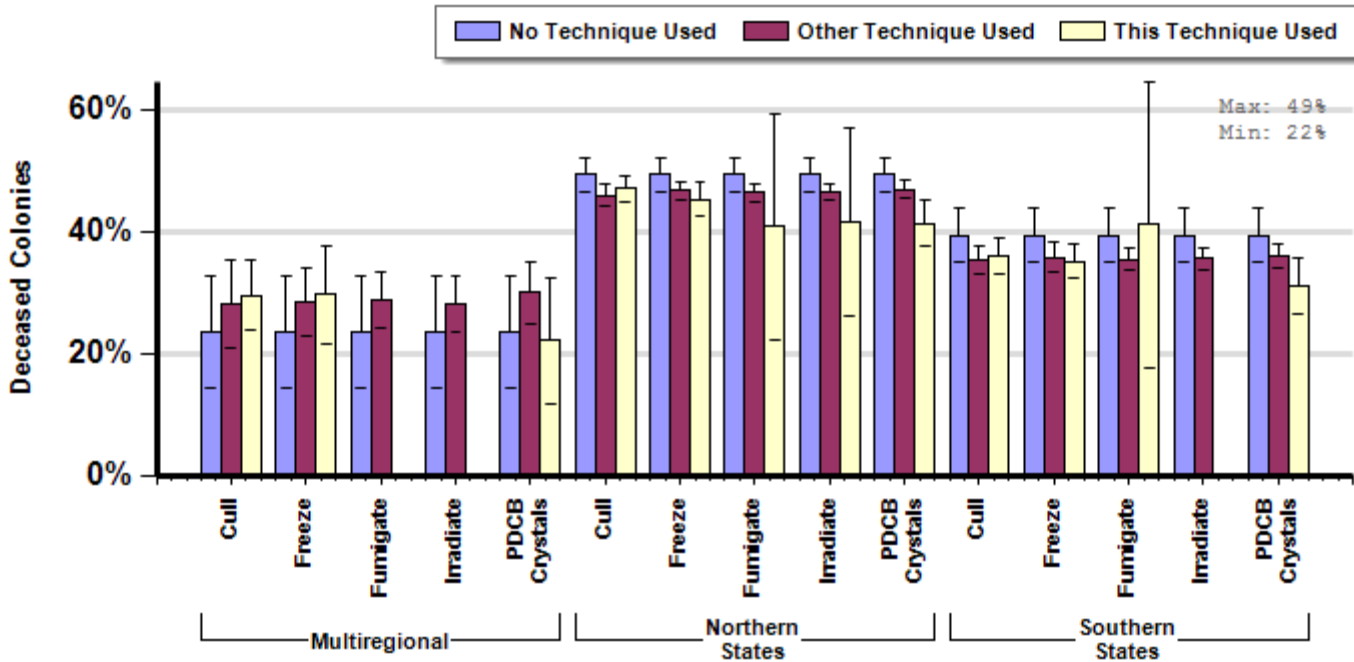
# Brood Comb Treatment Before Reuse by Region

## Winter

Average winter colony mortality suffered by beekeepers who reported different treatments before reusing old comb between April and March.

Report ID: 80-2015

### Some Significant Differences (within regions)



## Respondent Ratio



## Interpretation

Northern beekeepers who stored brood comb with paradichlorobenzene (PDCB) crystals before reuse reported 8 fewer overwintering colony deaths than beekeepers who did not treat the comb in any particular way. In other words, beekeepers in the northern region who used PDCB crystals lost 16.3% fewer overwintering colonies than beekeepers who did not use any brood comb treatment.

## 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 Providing Valid Responses	Total Number of Colonies Managed	Average Number of Colonies Managed		Average Colony Loss Mean(%) [Lower, Upper] CI	
					Mean	Standard Error		
Multiregional	Cull	No Technique Used	28	30,503	1089.4	294.1	24[14.2,32.8]	
		Other Technique Used	73	50,553	692.5	236.5	28[21.0,35.1]	
		This Technique Used	59	179,366	3040.1	1154.7	30[23.8,35.2]	
	Freeze	No Technique Used	28	30,503	1089.4	294.1	24[14.2,32.8]	
		Other Technique Used	100	171,357	1713.6	672.2	28[22.8,34.0]	
		This Technique Used	32	58,562	1830.1	753.4	30[21.5,37.6]	
	Fumigate	No Technique Used	28	30,503	1089.4	294.1	24[14.2,32.8]	
		Other Technique Used	132	229,919	1741.8	539.7	29[24.1,33.3]	
	Irradiate	No Technique Used	28	30,503	1089.4	294.1	24[14.2,32.8]	
		Other Technique Used	131	229,917	1755.1	543.7	28[23.6,32.7]	
	PDCB Crystals	No Technique Used	28	30,503	1089.4	294.1	24[14.2,32.8]	
		Other Technique Used	112	221,868	1981.0	632.2	30[24.7,35.0]	
		This Technique Used	20	8,051	402.6	258.1	22[11.7,32.4]	
	Northern States	Cull	No Technique Used	708	9,475	13.4	2.9	49[46.6,51.9]
			Other Technique Used	1,825	13,890	7.6	0.7	46[44.2,47.7]
This Technique Used			968	33,697	34.8	11.5	47[44.9,49.1]	

		Used					
	Freeze	No Technique Used	708	9,475	13.4	2.9	49[46.6,51.9]
		Other Technique Used	2,147	41,282	19.2	5.2	47[45.0,48.2]
		This Technique Used	646	6,305	9.8	2.2	45[42.5,47.9]
	Fumigate	No Technique Used	708	9,475	13.4	2.9	49[46.6,51.9]
		Other Technique Used	2,784	47,445	17.0	4.0	46[44.9,47.7]
		This Technique Used	9	142	15.8	5.9	41[22.3,59.2]
	Irradiate	No Technique Used	708	9,475	13.4	2.9	49[46.6,51.9]
		Other Technique Used	2,775	46,997	16.9	4.0	46[45.0,47.7]
		This Technique Used	18	590	32.8	12.6	42[26.1,57.1]
	PDCB Crystals	No Technique Used	708	9,475	13.4	2.9	49[46.6,51.9]
		Other Technique Used	2,531	36,104	14.3	3.9	47[45.4,48.3]
		This Technique Used	262	11,483	43.8	19.5	41[37.6,45.0]
Southern States	Cull	No Technique Used	241	6,209	25.8	13.8	39[34.8,43.7]
		Other Technique Used	975	27,038	27.7	15.8	35[33.0,37.5]
		This Technique Used	422	24,807	58.8	29.7	36[33.0,38.8]
	Freeze	No Technique Used	241	6,209	25.8	13.8	39[34.8,43.7]
		Other Technique Used	873	45,053	51.6	22.7	36[33.4,38.1]
		This Technique Used	524	6,792	13.0	1.9	35[32.2,37.8]
	Fumigate	No Technique Used	241	6,209	25.8	13.8	39[34.8,43.7]

	Other Technique Used	1,389	51,165	36.8	14.3	35[33.6,37.2]
	This Technique Used	8	680	85.0	58.4	41[17.7,64.6]
Irradiate	No Technique Used	241	6,209	25.8	13.8	39[34.8,43.7]
	Other Technique Used	1,394	39,721	28.5	11.3	35[33.7,37.3]
PDCB Crystals	No Technique Used	241	6,209	25.8	13.8	39[34.8,43.7]
	Other Technique Used	1,239	49,318	39.8	16.0	36[34.1,38.0]
	This Technique Used	158	2,527	16.0	2.3	31[26.3,35.7]

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## Comments About This Data

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### Relevant Links, References, and Citations



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