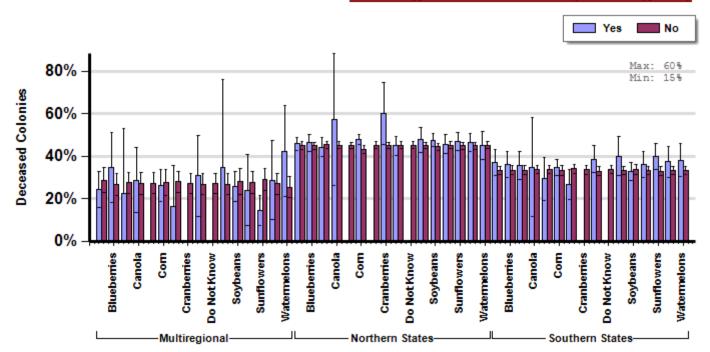


Crops Close to Colonies During Honey Flow By Region

Winter

Report ID: 89-2015 Average winter colony mortality suffered by beekeepers whose colonies were in proximity to various crops while they were producing honey, by region of operation between April and March.

Some Significant Differences (within regions)



Respondent Ratio

Multiregional 12%	88%
Northern States 11%	89%
Southern States 9%	91%

Interpretation

Multiregional operations in close proximity to sunflowers reported 14 fewer overwintering colony deaths out of 100 managed colonies (48.3% fewer losses) than multiregional beekeepers not near sunflowers. There are no significant differences between all other groups within the northern and southern states.

Survey Question

Which of the following crops were the majority of your colonies in proximity to when they were producing honey?

	of	Average Nu Colonies Ma		Average Colony Loss
		Mean	Standard Error	() [

Alfalfa	Yes	39	149,260	3827.2	1595.2	24[16.1,32.8]
Alfalfa	No	78	61,444	787.7	352.2	29[22.9,34.7]
Dl l	Yes	8	9,066	1133.3	1104.4	35[18.1,51.2]
Blueberries	No	109	201 , 638	1849.9	630.8	27[21.8,31.8]
C C	Yes	6	114	19.0	7.8	23[0.0,53.3]
Cane Crops	No	111	210 , 590	1897.2	622.8	28[22.7,32.5]
Canola	Yes	12	39,900	3325.0	887.2	29[13.6,44.1]
Callola	No	105	170,804	1626.7	650.6	27[22.1,32.3]
Citrus	No	113	199,555	1766.0	609.4	27[22.5,32.3]
Corn	Yes	37	62,490	1688.9	653.0	26[18.6,33.7]
Corn	No	80	148,214	1852.7	814.0	28[21.8,34.0]
Cotton	Yes	7	5,810	830.0	778.6	16[0.0,36.0]
Cotton	No	110	204,894	1862.7	627.7	28[23.1,33.0]
Cranberries	No	117	210,704	1800.9	592.0	27[22.6,32.1]
Cucumbers	Yes	13	518	39.8	24.0	31[11.9,50.1]
	No	104	210,186	2021.0	663.2	27[22.0,31.8]
Do Not Know	No	117	210,704	1800.9	592.0	27[22.6,32.1]
Other Melons	Yes	5	179	35.8	20.0	35[0.0,76.3]
Other Meions	No	112	210,525	1879.7	617.5	27[22.2,31.9]
Soybeans	Yes	40	130 , 877	3271.9	1625.8	26[18.6,32.8]
Soybeans	No	77	79 , 827	1036.7	292.8	28[21.9,34.6]
Squash	Yes	13	197	15.2	3.8	24[7.6,40.8]
oquasii	No	104	210,507	2024.1	663.1	28[22.7,32.8]
Sunflowers	Yes	15	41,646	2776.4	991.2	15[7.8,21.9]
outinowers	No	102	169,058	1657.4	663.4	29[23.9,34.5]
Sweet Corn	Yes	11	4,993	453.9	434.6	29[10.5,47.3]
Sweet Colli	No	106	205,711	1940.7	650.8	27 [22.2,32.2]
Watermelons	Yes	12	1,164	97.0	37.4	42[21.0,63.9]

Multiregional

		No	105	209,540	1995.6	657 . 3	26[20.9,30.4]
			<u></u>				76[42 8 49 11
,	Alfalfa	Yes	442	8,147	18.4	3.4	45[43.4,46.9]
		No	1 , 614	36,280	22.5	6.9	
	Blueberries	Yes	265	4,071	15.4	5.9	47[42.6,50.6]
	blucoerries	No	1,791	40 , 356	22.5	6.2	45[43.5,46.8]
		Yes	227	1,722	7.6	0.7	44[39.8,48.7]
	Cane Crops	No	1,829	42 , 705	23.3	6.1	45[43.8,47.1]
	- ,	Yes	6	57	9.5	3.1	58[26.4,88.6]
	Canola	No	2,050	44 , 370	21.6	5.5	45[43.7,46.8]
	Citrus	No	2,054	44,418	21.6	5.4	45[43.7,46.8]
		Yes	853	13,294	15.6	2.1	48[45.9,50.5]
	Corn	No	1,203	31,133	25.9	9.2	43[41.2,45.3]
Co	Cotton	No	2,054	43 , 980	21.4	5.4	45[43.8,46.8]
	-	Yes	28	1,862	66.5	55.0	60[45.8,74.7]
Northern States	Cranberries	No	2,028	42 , 565	21.0	5.5	45[43.6,46.7]
	-	Yes	212	1,626	7.7	0.9	45[40.3,49.5]
	Cucumbers	No	1,844	42 , 801	23.2	6.1	45[43.7,47.0]
	Do Not Know	No	2,056	44,427	21.6	5.4	45[43.8,46.9]
		Yes	123	1 , 388	11.3	2.2	48[41.8,53.7]
	Other Melons	No	1,933	43,039	22.3	5.8	45[43.6,46.8]
		Yes	530	8 , 733	16.5	2.1	48[44.8,50.6]
	Soybeans	No	1,526	35 , 694	23.4	7.3	44[42.7,46.3]
	C 1	Yes	257	2,071	8.1	0.8	46[41.6,50.1]
	Squash	No	1,799	42,356	23.5	6.2	45[43.6,46.9]
	G. G	Yes	263	3,213	12.2	5.1	47[42.6,51.3]
	Sunflowers	No	1,793	41,214	23.0	6.2	45[43.4,46.7]
	Same 1 C	Yes	242	2,568	10.6	1.3	47[42.3,50.9]
	Sweet Corn	No	1,814	41,859	23.1	6.2	45[43.5,46.8]

		Yes	90	1,149	12.8	3.4	45[38.6,51.9]
	Watermelons	No	1,966	43,278	22.0	5.7	45[43.7,46.9]
A		Yes	98	16,919	172.6	124.2	37[30.9,43.3]
	Alfalfa	No	918	21,860	23.8	6.7	33[31.4,35.5]
	ļ	Yes	120	3 , 982	33.2	24.1	36[30.2,42.2]
	Blueberries	No	896	34 , 797	38.8	14.9	33[31.4,35.5]
		Yes	86	1,268	14.7	3.3	36[29.0,42.3]
	Cane Crops	No	930	37,511	40.3	14.7	34[31.6,35.7]
	C 1	Yes	9	171	19.0	4.8	35[11.5,58.5]
	Canola	No	1,007	38,608	38.3	13.6	34[31.8,35.7]
	Citrus	Yes	37	4 , 970	134.3	81.2	29[19.5,39.5]
	Citi us	No	979	33,809	34.5	13.6	34[32.0,35.9]
	Corn	Yes	247	3 , 920	15.9	2.5	35[31.1,38.7]
	Com	No	769	34 , 859	45.3	17.7	33[31.2,35.7]
Southern	Cotton	Yes	57	6,066	106.4	75.6	27[20.0,33.9]
States		No	959	32 , 713	34.1	13.5	34[32.2,36.2]
	Cranberries	No	1,014	38 , 771	38.2	13.5	34[31.8,35.7]
	Cucumbers	Yes	118	4 , 260	36.1	24.5	39[32.3,45.2]
	Cucumbers	No	898	34 , 519	38.4	14.9	33[31.1,35.2]
	Do Not Know	No	1,016	38 , 779	38.2	13.4	34[31.8,35.7]
	Other Melons	Yes	62	3 , 613	58.3	46.7	
		No	954	35,166	36.9	14.0	
	Soybeans	Yes	168	2 , 708	16.1	2.3	33[28.8,37.2]
		No	848	36 , 071	42.5	16.1	34[31.8,36.1]
	Squash	Yes	130	1 , 556	12.0	2.1	36[30.3,42.3]
	! '	No	886	37 , 223	42.0	15.4	
	Sunflowers	Yes	112	1,115	10.0	1.6	
		No	904	37 , 664	41.7	15.1	33[31.0,35.1]

	Sweet Corn	Yes	80	860	10.8	1.8	38[30.3,44.9]
		No	936	37 , 919	40.5	14.6	33[31.4,35.5]
,	Watermelons	Yes	81	8 , 089	99.9	63.5	38[30.4,45.9]
ľ		No	935	30 , 690	32.8	13.5	33[31.4,35.4]

Comments About This Data

Relevant Links, References, and Citations

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