The Bee Informed Partnership

Management Survey Results (2014-2015)

Bacterial Brood Disease Control

BeeInformed.org

Funded by:

USDA NIFA United States Department of Agriculture National Institute of Food and Agriculture

Release Date: September 24, 2015

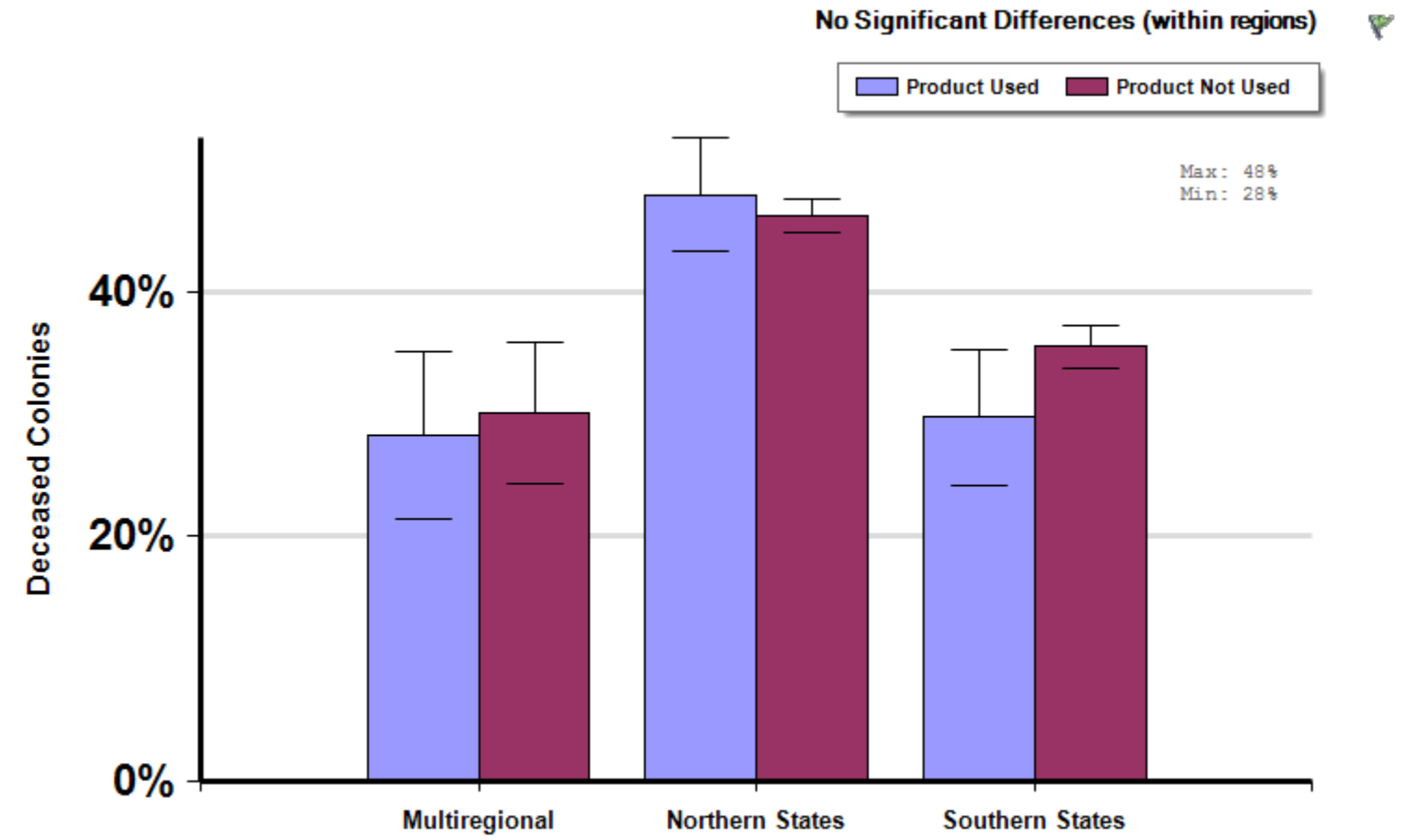
This information is for educational purposes only. References to commercial products or trade names do not imply endorsement by the Bee Informed Partnership or its members. The results presented here are the summary of the population who responded. The sample may not be representative of the beekeeping 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.

Antibiotic Use By Region

Winter

Report ID: 48-2015

A comparison of average winter colony mortality among beekeepers who did or did not apply an antibiotic (either Terramycin or Tylosin (Tylan)), at least once, to a majority of their colonies between April 2014 and March 2015, by region.



Respondent Ratio

Interpretation

There are no significant differences within the groups (Multiregional, Northern and Southern States).

Survey Question

Which, if any of the following, did you apply to a majority of your colonies between April, 2013 and March, 2014?

		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
Multiregional	Product Used	55	245,106	4456.5	1222.5	**28.2 [21.4,35.1]**
	Product Not Used	101	17,423	172.5	65.6	**30.1 [24.4,35.9]**
Northern States	Product Used	186	17,798	95.7	47.2	**47.9 [43.3,52.5]**
	Product Not Used	2,882	32,322	11.2	2.4	**46.2 [44.8,47.6]**
Southern States	Product Used	97	47,736	492.1	206.0	**29.7 [24.2,35.2]**
	Product Not Used	1,460	14,030	9.6	0.6	**35.5 [33.8,37.3]**

Comments About This Data

Relevant Links, References, and Citations

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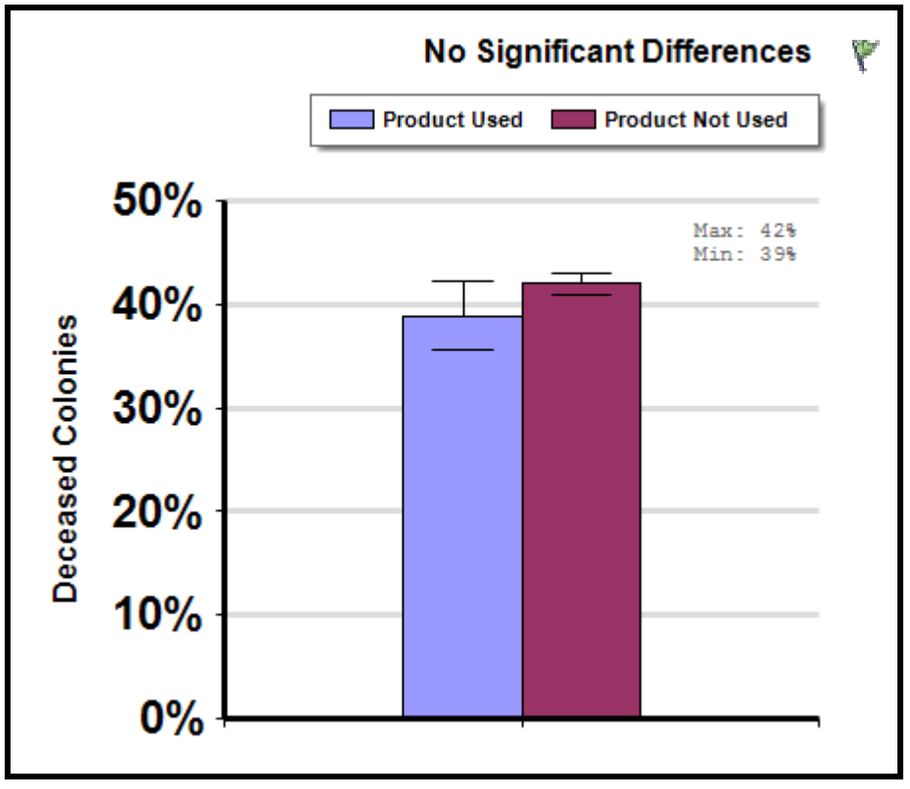
Antibiotic Product Use

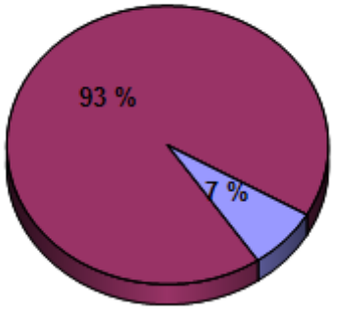
A comparison of winter mortality among those who indicated they applied an antibiotic (Terramycin and/or Tylosin (Tylan)), at least once, to a majority of their colonies between April 2014 and March 2015.

Winter

Report ID: 36-2015



Participant Ratio



Interpretation

Beekeepers who applied an antibiotic treatment to their colonies did not report losing more or less colonies than those who did not use an antibiotic product.

Survey Question

Which, if any of the following, did you apply to a majority of your colonies between April, 2014 and March ,2015?

-Terramycin
-Tylosin

	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
Product Not Used	4,489	67,423	15.0	2.2	**42.0 [41.0, 43.1]**
Antibiotics Used	347	315,315	908.7	218.9	**38.9 [35.6, 42.2]**

Comments About This Data

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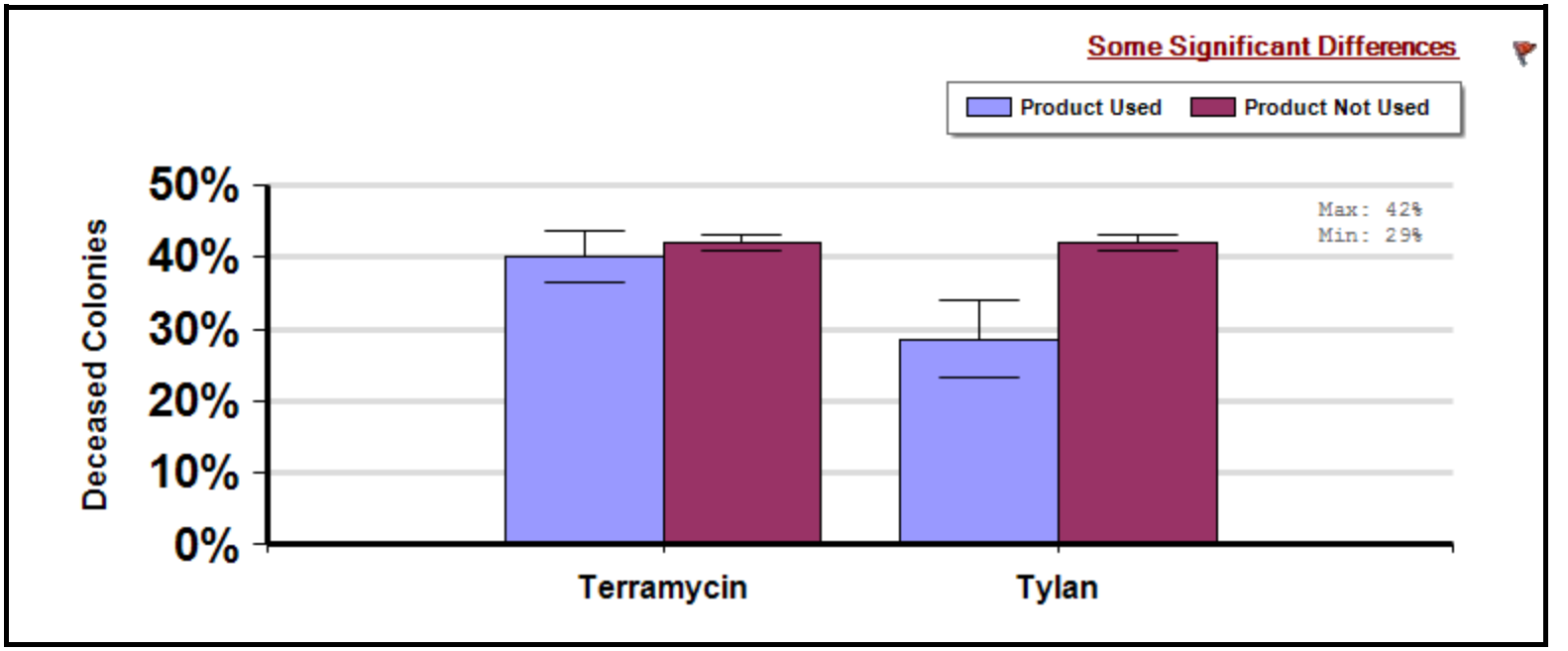
Antibiotic Use By Product

Winter

Report ID: 60-2015

A comparison of average winter colony mortality among beekeepers who did or did not apply either Terramycin or Tylosin (Tylan), at least once, to a majority of their colonies between April 2014 and March 2015.



Interpretation

On average, beekeepers who treated colonies with Tylan antibiotics experienced significantly lower winter colony mortality. Specifically, beekeepers who used Tylan lost 31.9% fewer colonies than beekeepers who reported no treatment with an antibiotic product. Beekeepers who applied Terramycin to their colonies did not lose more or less colonies than those who did not apply Terramycin.

Survey Question

Which, if any of the following, did you apply to a majority of your colonies between April, 2013 and March, 2014?

-Terramycin
-Tylan

		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
Terramycin	Product Used	299	220,379	737.1	239.2	**40.1 [36.4,43.7]**
	Product Not Used	4,537	162,359	35.8	6.5	**41.9 [40.9,43.0]**
Tylan	Product Used	75	263,180	3509.1	942.9	**28.6 [23.2,34.0]**

	Product Not Used	4,761	119,558	25.1	3.5	**42.0 [41.0,43.1]**

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