The Bee Informed Partnership

Management Survey Results (2013-2014)

Bacterial Brood Disease Control

BeeInformed.org

Funded by:

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

Release Date: September 19, 2014

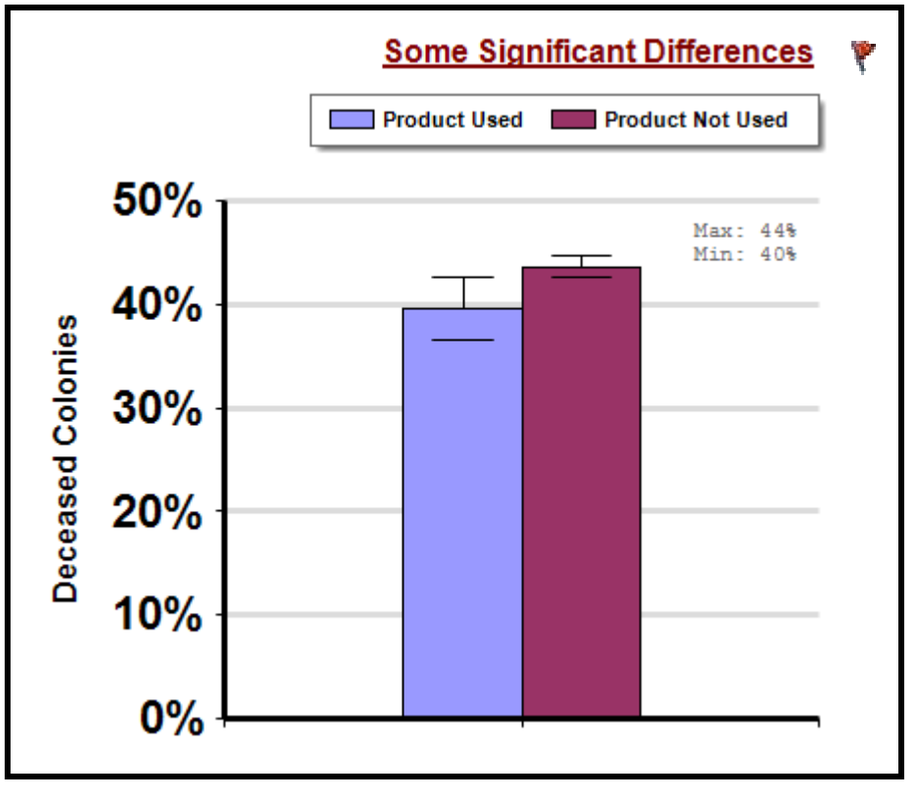
This information is for educational purposes only. References to commercial products or trade names do not imply endorsement by the Bee Informed Partnership or its members. The results presented here are the summary of the population who responded. The sample may not be representative of the beekeeping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

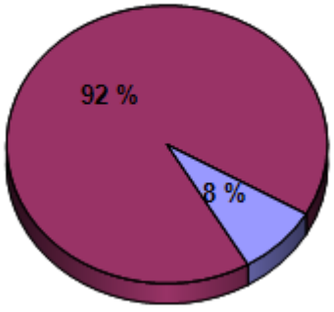
A comparison of winter mortality among those who indicated they applied an antibiotic (Terramycin and/or Tylosin (Tylan)), at least once, to a majority of their colonies between April and March.

Winter

Report ID: 36-2014



Participant Ratio



Interpretation

Beekeepers who reported treating with an antibiotic product reported on average 4.1 fewer overwintering colony deaths per 100 managed colonies than those who did not report using an antibiotic product. In other words, beekeepers who reported treating with an antibiotic product lost 9.4% fewer colonies than the ones who did not report treating with any known antibiotic product.

Survey Question

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

-Terramycin
-Tylosin (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
	Product Not Used	5,157	97,095	18.8	3.3	**43.7 [42.6, 44.7]**
	Product Used	464	429,494	925.6	185.7	**39.6 [36.6, 42.6]**

Comments About This Data

Relevant Links, References, and Citations

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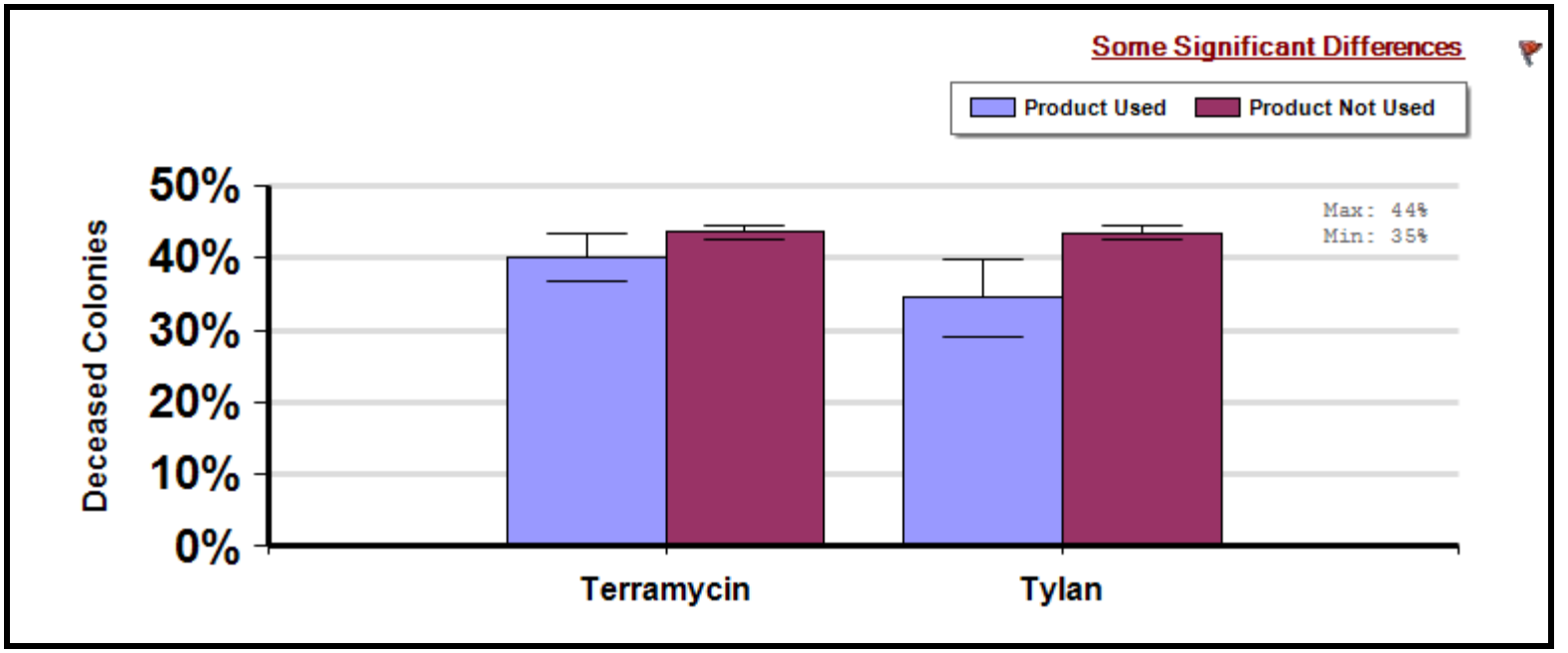
Antibiotic Use By Product

Winter

Report ID: 60-2014

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



Interpretation

Beekeepers who treated with Tylan antibiotics reporting losing 9 fewer overwintering colony deaths per 100 managed colonies than those who did not report treating with antibiotics. In other words, beekeepers who reported treating with Tylan antibiotics lost 20.7% fewer colonies than the ones who did not report treating with any known antibiotic product. There is no significant difference between the Terramycin groups.

Survey Question

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

-Terramycin
-Tylosin (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	400	322,334	805.8	204.4	**40.1 [36.8,43.3]**

	Product Not Used	5,221	204,255	39.1	6.5	**43.6 [42.6,44.6]**
Tylan	Product Used	110	333,154	3028.7	720.2	**34.5 [29.2,39.9]**
	Product Not Used	5,511	193,435	35.1	5.3	**43.5 [42.5,44.5]**

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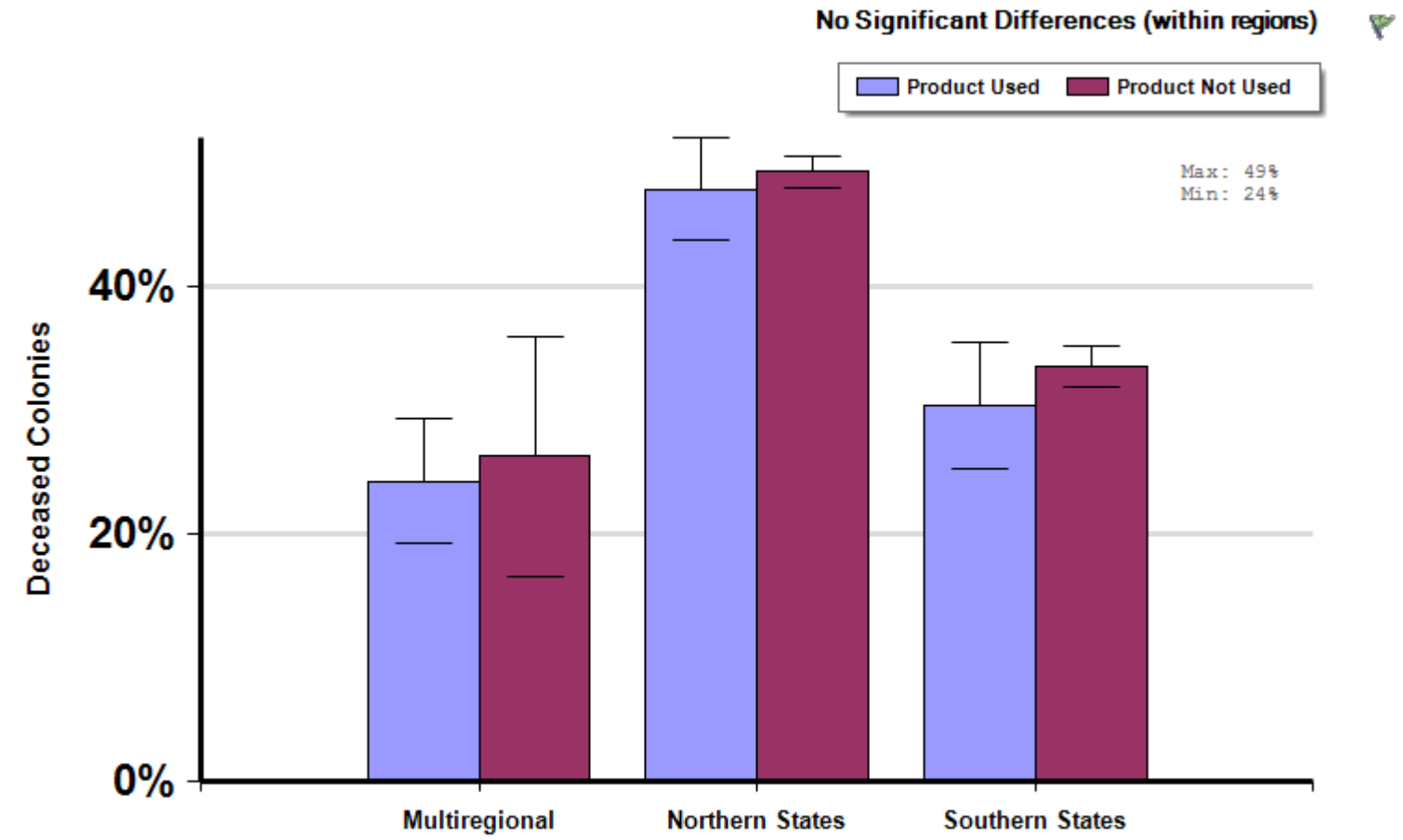
Antibiotic Use By Region

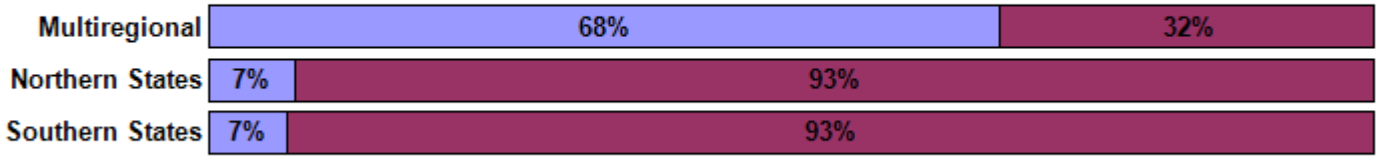
Winter

Report ID: 48-2014

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 and March by region of operation.



Respondent Ratio



Interpretation

There are no significant differences between the groups.

Survey Question

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

-Terramycin
-Tylosin (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
Multiregional	Product Used	72	371,579	5160.8	1041.1	**24.2 [19.2,29.3]**
	Product Not Used	34	34,943	1027.7	367.8	**26.3 [16.5,36.0]**
Northern States	Product Used	271	11,363	41.9	8.4	**47.9 [43.8,52.0]**
	Product Not Used	3,398	32,197	9.5	1.3	**49.3 [48.0,50.6]**
Southern States	Product Used	120	42,952	357.9	147.7	**30.3 [25.2,35.5]**
	Product Not Used	1,669	26,464	15.9	5.1	**33.5 [31.9,35.2]**

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