

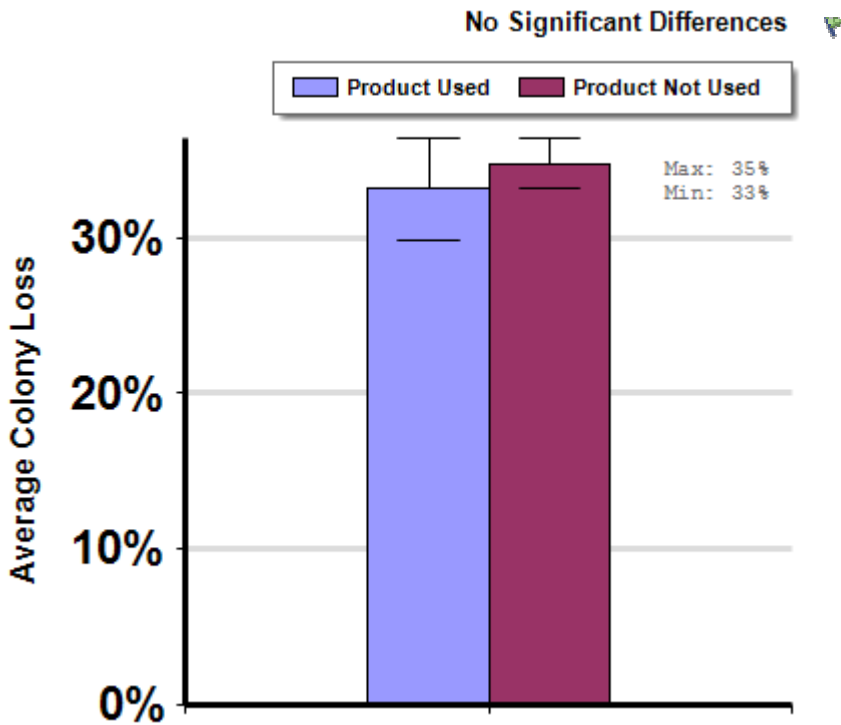


# Antibiotic Product Use

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 2010 and March 2011.

## Winter

Report ID: 36



## Respondent Ratio



## Interpretation

Beekeepers who treated with antibiotics did not report losing more or fewer colonies than those who did not report treating with antibiotics. A majority of responding beekeepers did not treat with antibiotics.

## Survey Question

19. For the products listed below, indicate in which months you applied the product to a majority of your colonies.  
 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 95% CI	Upper 95% CI
Product Used	385	135,403	351.7	75.8	33.2	29.9	36.4
Product Not Used	1,976	28,449	14.4	3.4	34.7	33.1	36.3

## Comments About This Data

Not enough data to analyze by months of use so data has been lumped together.

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## Relevant Links, References, and Citations

Funded By:



United States  
Department of  
Agriculture

National Institute  
of Food  
and Agriculture

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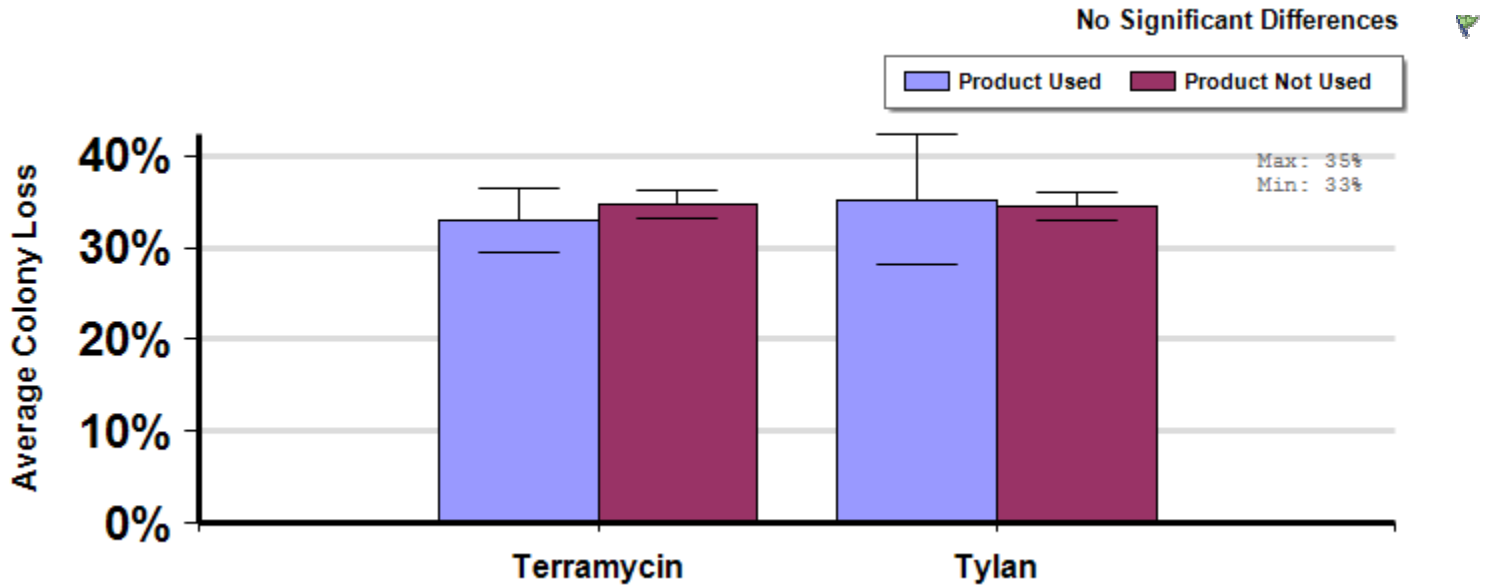


# Antibiotic Use By Product

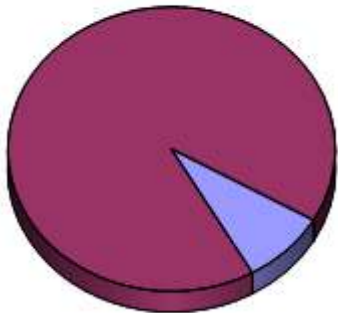
A comparison of average winter colony mortality among beekeepers who applied or did not apply either Terramycin or Tylosin (Tylan), at least once, to a majority of their colonies between April 2010 and March 2011.

## Winter

Report ID: 60



### Respondent Ratio



### Interpretation

**No difference within groups**

### Survey Question

19. For the products listed below, indicate in which months you applied the product to a majority of your colonies.

- 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 95% CI	Upper 95% CI
Terramycin	Product Used	341	75,277	220.8	66.5	33.0	29.4	36.5
	Product Not Used	2,020	88,575	43.8	10.0	34.7	33.1	36.3
Tylan	Product Used	58	78,315	1350.3	309.4	35.2	28.1	42.2
	Product Not Used	2,303	85,537	37.1	9.9	34.4	33.0	35.9

## Comments About This Data

Few reported use – more respondents are needed to make confident interpretations of these data.

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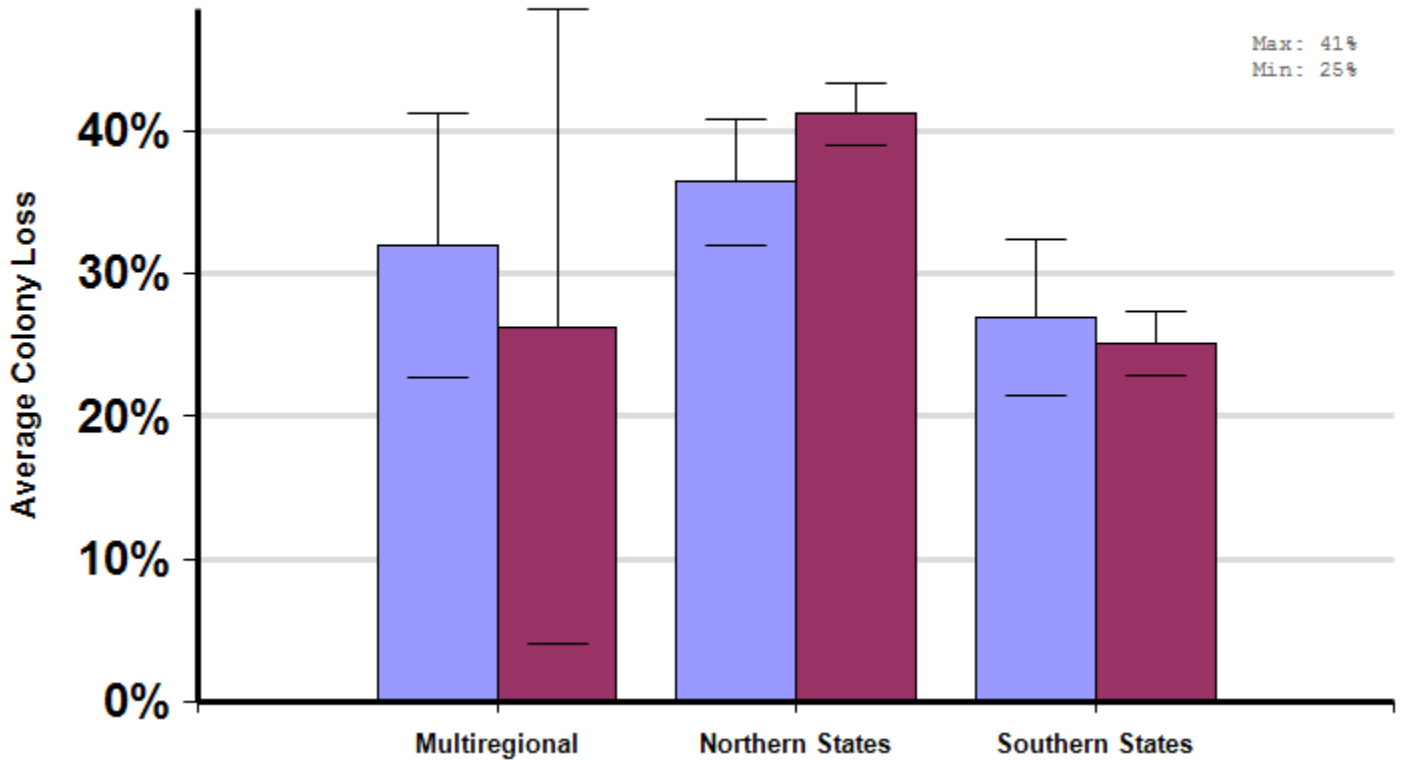
# Antibiotic Use By Region

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 2010 and March 2011 by region of operation

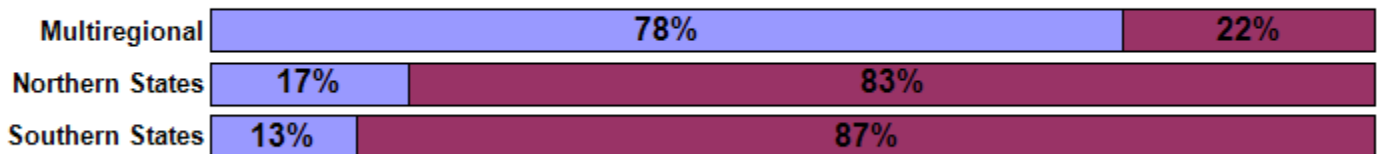
## Winter

Report ID: 48

No Significant Differences (within regions)



## Respondent Ratio



## Interpretation

No difference between groups

## Survey Question

19. For the products listed below, indicate in which months you applied the product to a majority of your colonies.  
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 95% CI	Upper 95% CI
Multiregional	Product Used	29	92,910	3203.8	694.9	32.0	22.7	41.3
	Product Not Used	8	7,460	932.5	763.7	26.3	4.1	48.6
Northern States	Product Used	232	9,817	42.3	16.5	36.5	32.1	40.9
	Product Not Used	1,130	10,318	9.1	0.9	41.2	39.0	43.4
Southern States	Product Used	117	27,900	238.5	109.8	26.9	21.4	32.4
	Product Not Used	811	10,292	12.7	2.6	25.1	22.9	27.3

### Comments About This Data

Low response among multiregional operations makes comparisons in this group difficult to interpret.

### Relevant Links, References, and Citations

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The Bee Informed Partnership  
Management Survey Results (2011)  
Antibiotics

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[BeeInformed.org](http://BeeInformed.org)

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