



The Bee Informed Partnership Management Survey Results (2013-2014) Protein Feed

BeeInformed.org

Funded by:



United States
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of Food
and Agriculture

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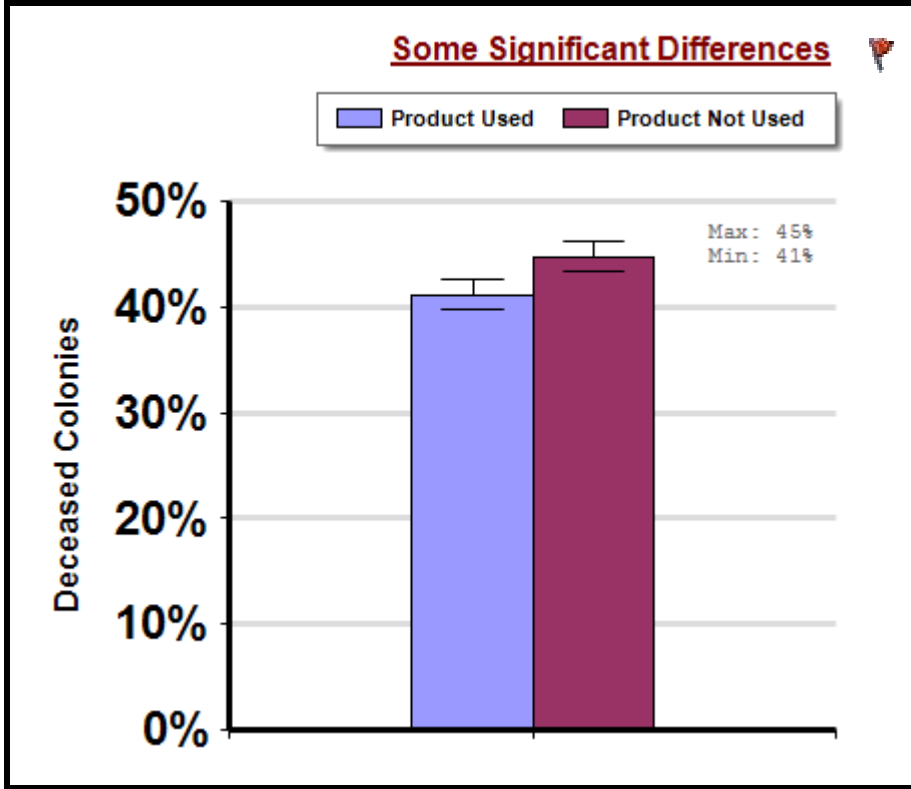


Protein Feed Use

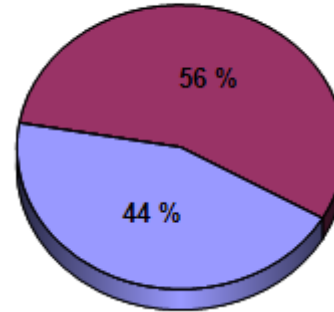
A comparison of winter mortality among those who indicated they did not feed and did feed to a majority of their colonies, at least once between April and March, with a protein feed. Protein feed included: Self-made protein feed containing pollen, Self-made protein feed without real pollen, Bee Pro, MegaBee, Global Patties, and other Commercial protein feeds.

Winter

Report ID: 155-2014



Participant Ratio



Interpretation

Beekeepers who fed colonies with a protein feed reported 3.6 less overwintering colony deaths per 100 managed colonies than those who did not report feeding with protein. In other words, beekeepers who fed colonies with protein feed lost 8% less colonies than those that did not feed with protein.

Survey Question

Which, if any of the following, did you apply to a majority of your colonies between April 1, 2013 and March, 2014?

- Self-made protein feed containing pollen
- Self-made protein feed without real pollen
- Bee Pro
- MegaBee
- Global Patties
- Other commercial protein feeds

| | | 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 | 3,064 | 119,885 | 39.1 | 10.6 | 44.8 [43.4, 46.2] |

| | | | | | | |
|--------------|-------|---------|-------|------|--|-------------------|
| Used | | | | | | |
| Product Used | 2,447 | 398,534 | 162.9 | 34.1 | | 41.2 [39.8, 42.6] |

Comments About This Data

Relevant Links, References, and Citations



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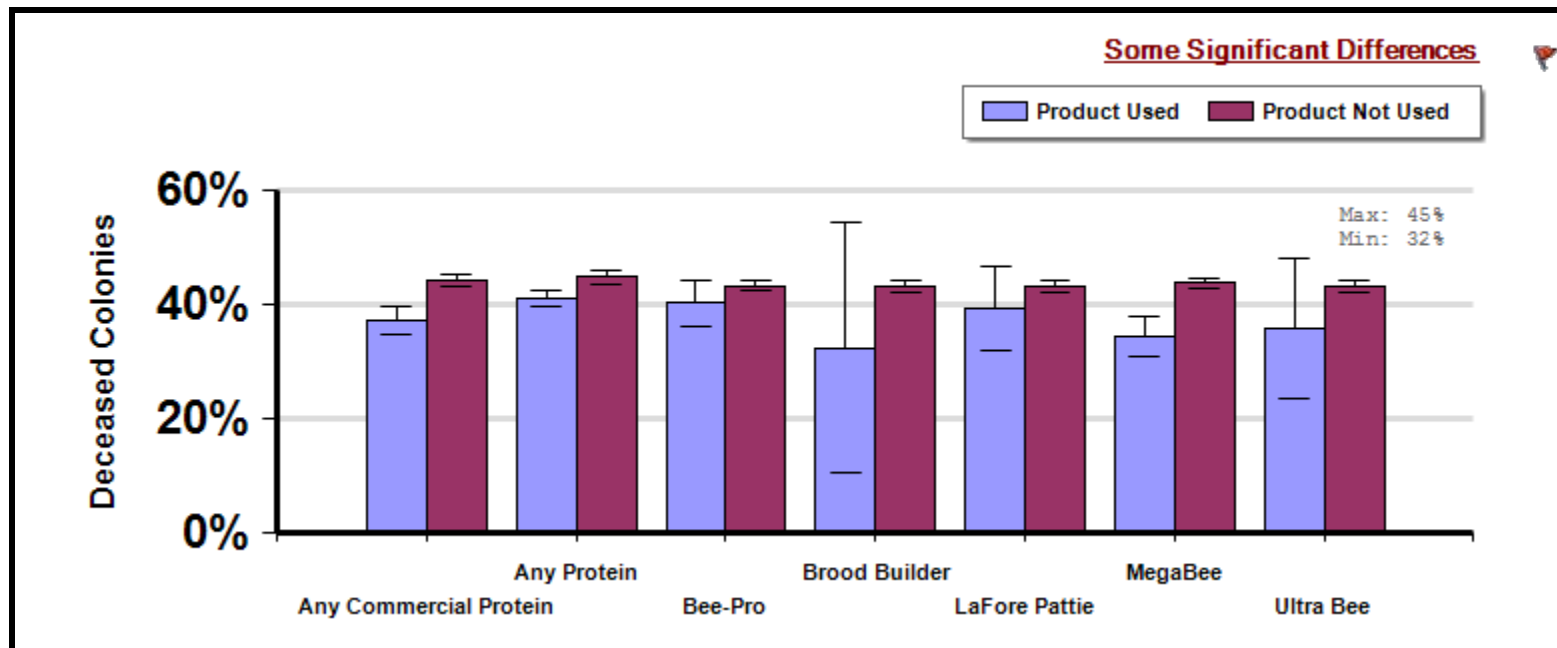
Protein Feed Use By Product

Management
Survey 2014

Winter

Report ID: 161-
2014

A comparison of winter mortality among those who indicated they did not feed their colonies a specific type of protein feed (but may or may not have fed another type of protein feed) with those who indicated they fed a specific type of protein feed to a majority of their colonies, at least once between April and March. Protein feed included: Self-made protein feed containing pollen, Self-made protein feed without real pollen, Bee Pro, MegaBee, Global Patties, and other Commercial protein feeds.



Interpretation

Beekeepers who fed colonies with commercial protein reported 7 less overwintering colony deaths per 100 managed colonies than those who did not report feeding colonies with commercial protein. In other words, beekeepers who fed colonies with commercial protein lost 15.9% less colonies than those that did not feed with commercial protein. Also, beekeepers who fed colonies with any protein reported 3.6 less overwintering colony deaths per 100 managed colonies than those who did not feed with any protein. In other words, beekeepers who fed colonies any protein lost 8% less colonies than those who did not feed colonies with any protein. Also, beekeepers who fed colonies with MegaBee reported 9.3 less overwintering colony deaths per 100 managed colonies than those who did not report feeding colonies with MegaBee. In other words, beekeepers who fed colonies with MegaBee lost 21.3% less colonies than those that did not feed with MegaBee. For all other protein feed products (Bee-Pro, Brood Builder, LaFore Patties, and Ultra Bee), beekeepers using those specified products did not suffer fewer or greater losses when compared to beekeepers who did not report using that product.

Survey Question

Which, if any of the following, did you apply to a majority of your colonies between April 1, 2013 and March, 2014?

- Self-made protein feed containing pollen
- Self-made protein feed without real pollen
- Bee Pro
- MegaBee
- Global Patties
- Other commercial protein feeds

| | | 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 |
| Any Commercial Protein | Product Used | 715 | 206,537 | 288.9 | 54.0 | 37.1 [34.6,39.6] |
| | Product Not Used | 4,796 | 311,882 | 65.0 | 16.8 | 44.1 [43.0,45.2] |
| Any Protein | Product Used | 2,459 | 398,719 | 162.1 | 33.9 | 41.2 [39.8,42.7] |
| | Product Not Used | 3,052 | 119,700 | 39.2 | 10.7 | 44.8 [43.4,46.2] |
| Bee-Pro | Product Used | 294 | 104,542 | 355.6 | 89.4 | 40.2 [36.3,44.2] |
| | Product Not Used | 5,217 | 413,877 | 79.3 | 16.4 | 43.4 [42.4,44.4] |
| Brood Builder | Product Used | 8 | 112 | 14.0 | 6.1 | 32.5 [10.6,54.3] |
| | Product Not Used | 5,503 | 518,307 | 94.2 | 16.3 | 43.2 [42.2,44.2] |
| LaFore Pattie | Product Used | 88 | 79,070 | 898.5 | 294.0 | 39.4 [32.1,46.8] |
| | Product Not Used | 5,423 | 439,349 | 81.0 | 15.8 | 43.3 [42.3,44.3] |
| MegaBee | Product Used | 312 | 41,763 | 133.9 | 47.2 | 34.4 [30.8,38.0] |
| | Product Not Used | 5,199 | 476,656 | 91.7 | 17.0 | 43.7 [42.7,44.8] |
| Ultra Bee | Product Used | 24 | 279 | 11.6 | 4.7 | 35.8 [23.6,48.1] |
| | Product Not Used | 5,487 | 518,140 | 94.4 | 16.3 | 43.2 [42.2,44.2] |

Comments About This Data

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Protein Feed Use By Region

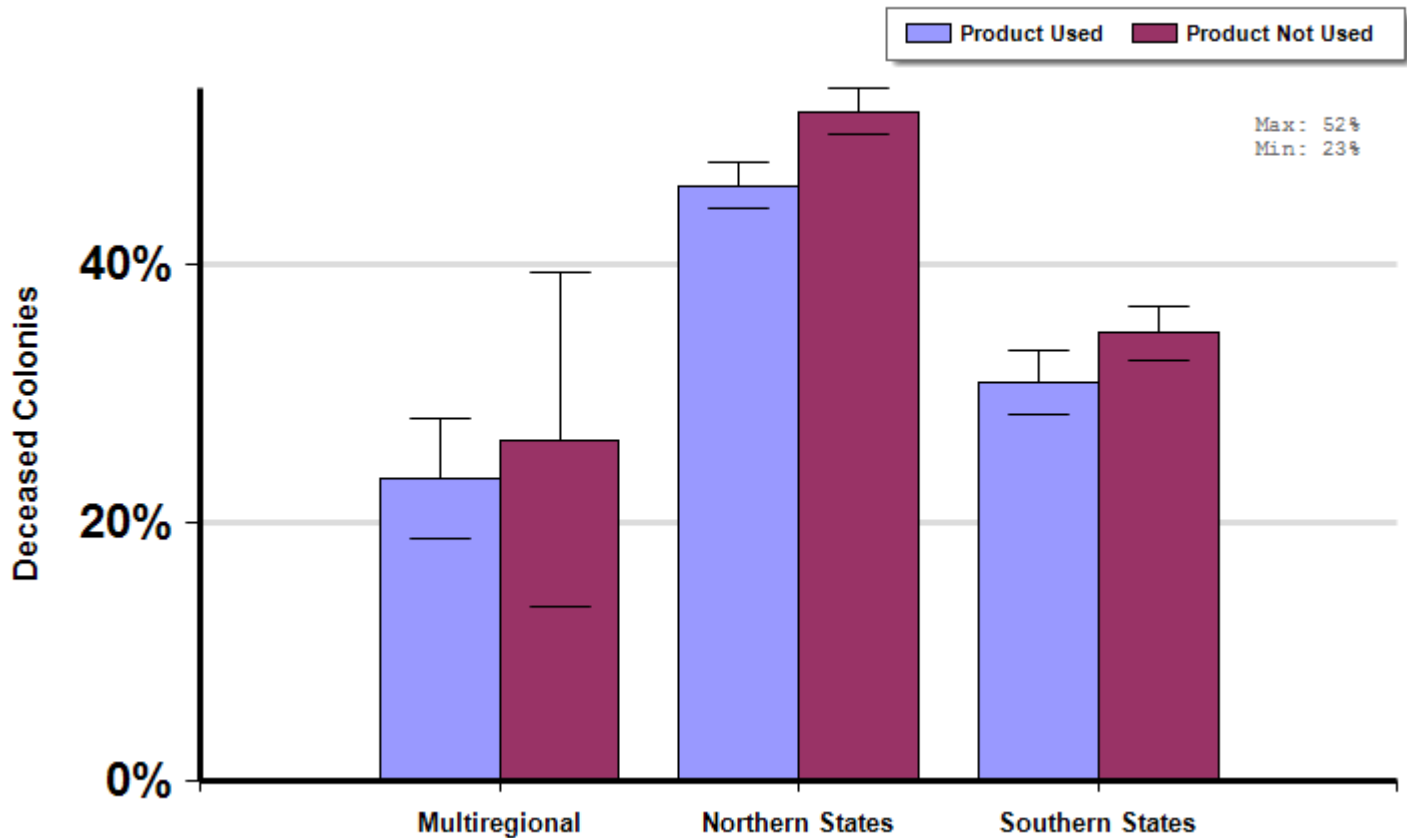
Management Survey 2014

Winter

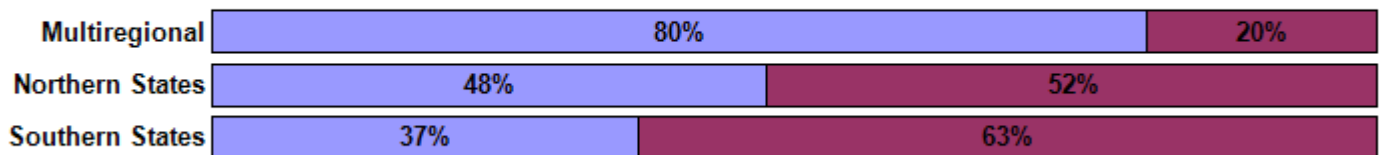
Report ID: 158-2014

A comparison of winter mortality among those who indicated they did feed and those who did not feed a majority of their colonies, at least once between April and March, with a protein feed by region of operation. Protein feed included: Self-made protein feed containing pollen, Self-made protein feed without real pollen, Bee Pro, MegaBee, Global Patties, and other Commercial protein feeds.

Some Significant Differences (within regions)



Respondent Ratio



Interpretation

Northern beekeepers who fed the majority of their colonies with a protein feed reported 5.7 less overwintering colony deaths per 100 managed colonies than those who did not feed the majority of their colonies with a protein feed. In other words, beekeepers in the northern states who fed their colonies protein lost 11% less colonies than those who did not feed their colonies with protein. Beekeepers who manage colonies across regions or in the southern states did not suffer fewer or greater losses based on their use of protein feed.

Survey Question

Which, if any of the following, did you apply to a majority of your colonies between April 1, 2013 and March, 2014?

- Self-made protein feed containing pollen
- Self-made protein feed without real pollen
- Bee Pro
- MegaBee
- Global Patties
- Other commercial protein feeds

| | | 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 | 81 | 337,381 | 4165.2 | 918.4 | 23.4 [18.7,28.1] |
| | Product Not Used | 20 | 61,969 | 3098.5 | 1217.8 | 26.4 [13.4,39.4] |
| Northern States | Product Used | 1,712 | 25,800 | 15.1 | 2.7 | 46.1 [44.3,47.9] |
| | Product Not Used | 1,882 | 17,295 | 9.2 | 1.2 | 51.8 [50.1,53.6] |
| Southern States | Product Used | 645 | 31,649 | 49.1 | 15.8 | 30.8 [28.4,33.3] |
| | Product Not Used | 1,116 | 37,442 | 33.6 | 15.5 | 34.6 [32.5,36.8] |

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