



The Bee Informed Partnership  
Management Survey Results (2013-2014)  
Honey Bee Stock  
Management

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Funded by:



United States  
Department of  
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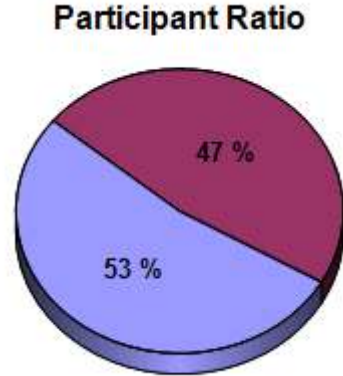
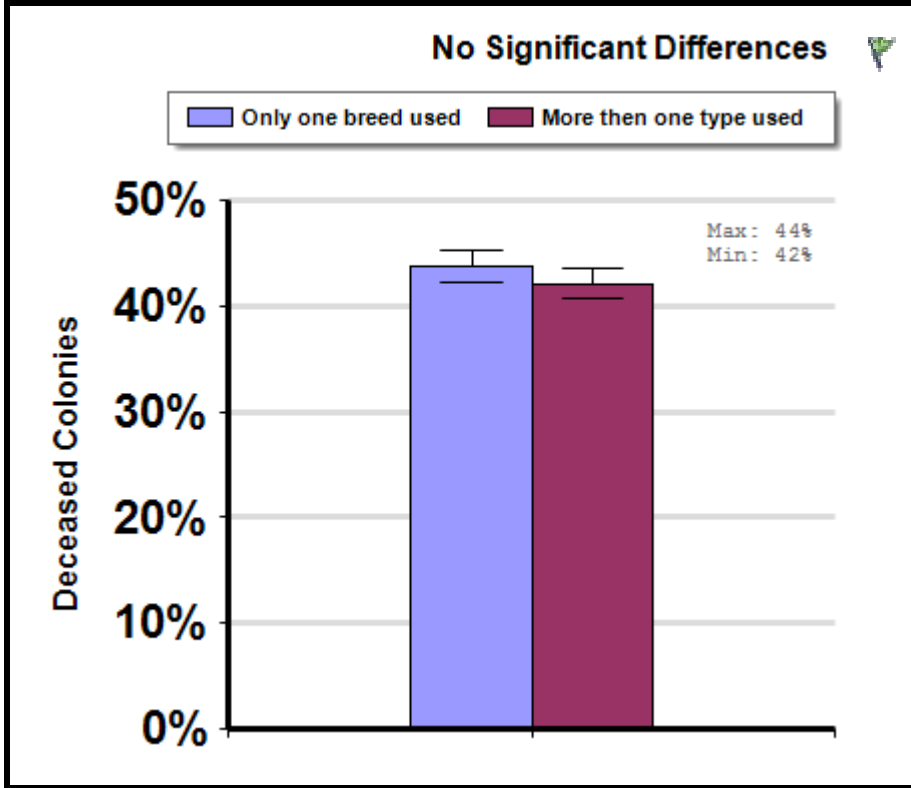
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Average winter colony mortality reported by beekeepers who indicated which race of bees they kept between April and March.

Winter

Report ID: 248-2014



Interpretation

Beekeepers who reported using only one breed of bees did not report losing more or less colonies than those who did not report using only one breed of bees.

Survey Question

What type or race of bees do you use in your operation?

- New World Carniolan
- New World Carniolan hybrid
- Caucasian
- Caucasian hybrid
- Italian
- Italian hybrid
- Buckfast
- Buckfast hybrid
- Russian
- Russian hybrid
- Varroa Sensitive Hygienic (VSH)
- Minnesota Hygienic
- German black
- Local selected
- Africanized
- Don't know

		Total Number of Respondents Providing	Total Number of Colonies Managed	Average Number of Colonies Managed	Average Colony Loss

		Valid Responses				
				Mean	Standard Error	Mean(%) [Lower, Upper] CI
	More then one type used	2,525	223,717	88.6	17.2	42.2 [40.8, 43.6]
	Only one breed used	2,806	286,867	102.2	27.9	43.8 [42.3, 45.2]

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## Comments About This Data

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## Relevant Links, References, and Citations

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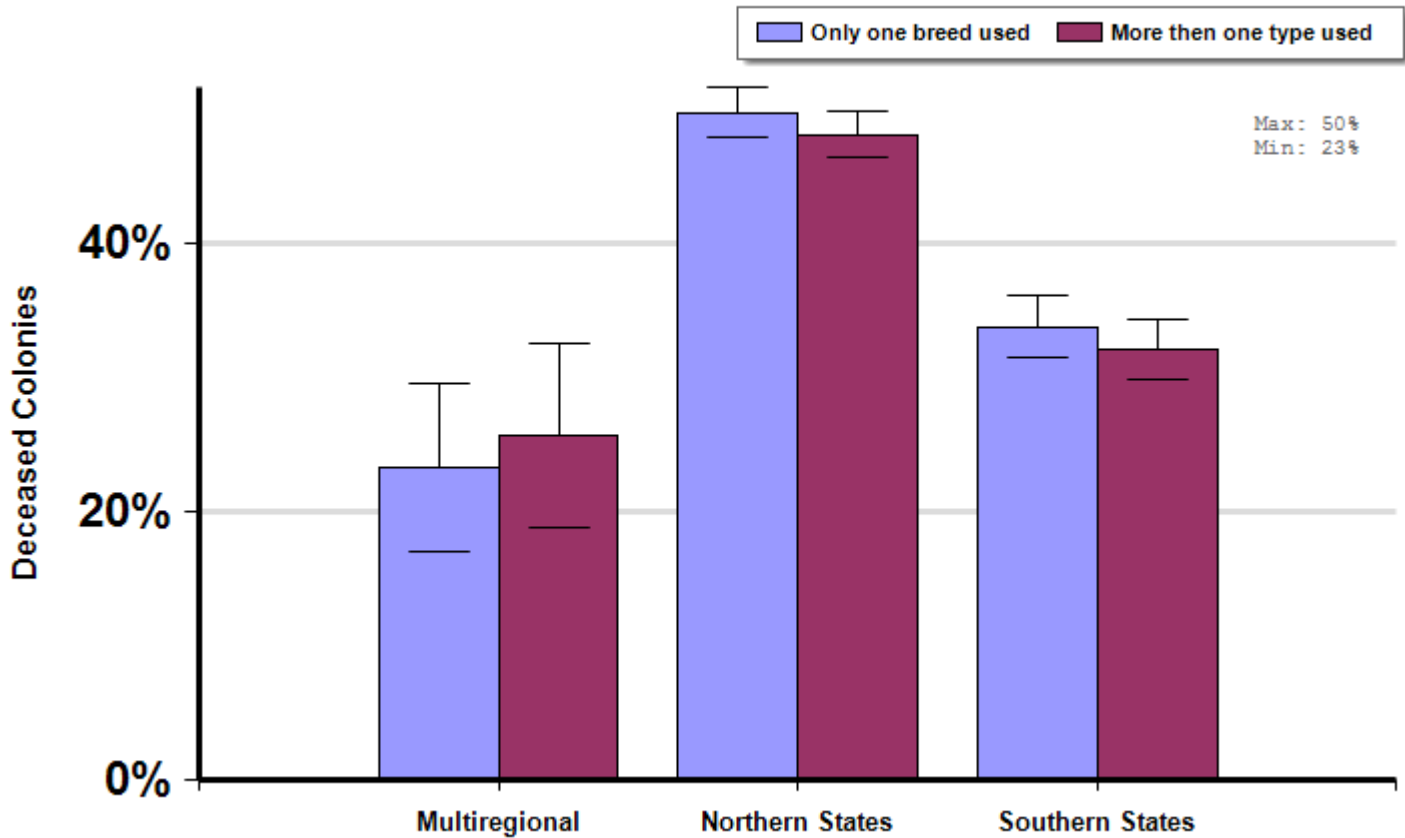
# Simple Single Stock By Region

## Winter

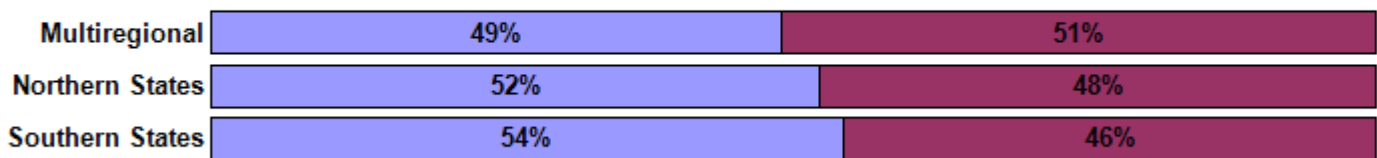
Report ID: 252-2014

This report was generated from responses gathered in the survey year named above. Results with less than 5 responses are not displayed. The information in this report and others is freely available at <http://research.beeinformed.org>. We hope you will find this information helpful. Thanks to all those who participated last year and please come back in April each year to participate in The Bee Informed Management Survey.

No Significant Differences (within regions)



## Respondent Ratio



## Interpretation

There are no significant differences within the regions.

## Survey Question

What type or race of bees do you use in your operation?

- New World Carniolan
- New World Carniolan hybrid
- Caucasian

- Caucasian hybrid
- Italian
- Italian hybrid
- Buckfast
- Buckfast hybrid
- Russian
- Russian hybrid
- Varroa Sensitive Hygienic (VSH)
- Minnesota Hygienic
- German black
- Local selected
- Africanized
- Don't know

		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	Only one breed used	48	226,162	4711.7	1458.3	<b>23.2 [17.0, 29.5]</b>
	More than one type used	50	166,565	3331.3	697.3	<b>25.6 [18.7, 32.5]</b>
Northern States	Only one breed used	1,818	14,901	8.2	1.0	<b>49.7 [47.8, 51.5]</b>
	More than one type used	1,663	27,472	16.5	2.9	<b>48.1 [46.3, 49.8]</b>
Southern States	Only one breed used	920	39,629	43.1	17.7	<b>33.7 [31.4, 36.1]</b>
	More than one type used	777	28,972	37.3	15.0	<b>32.0 [29.8, 34.3]</b>

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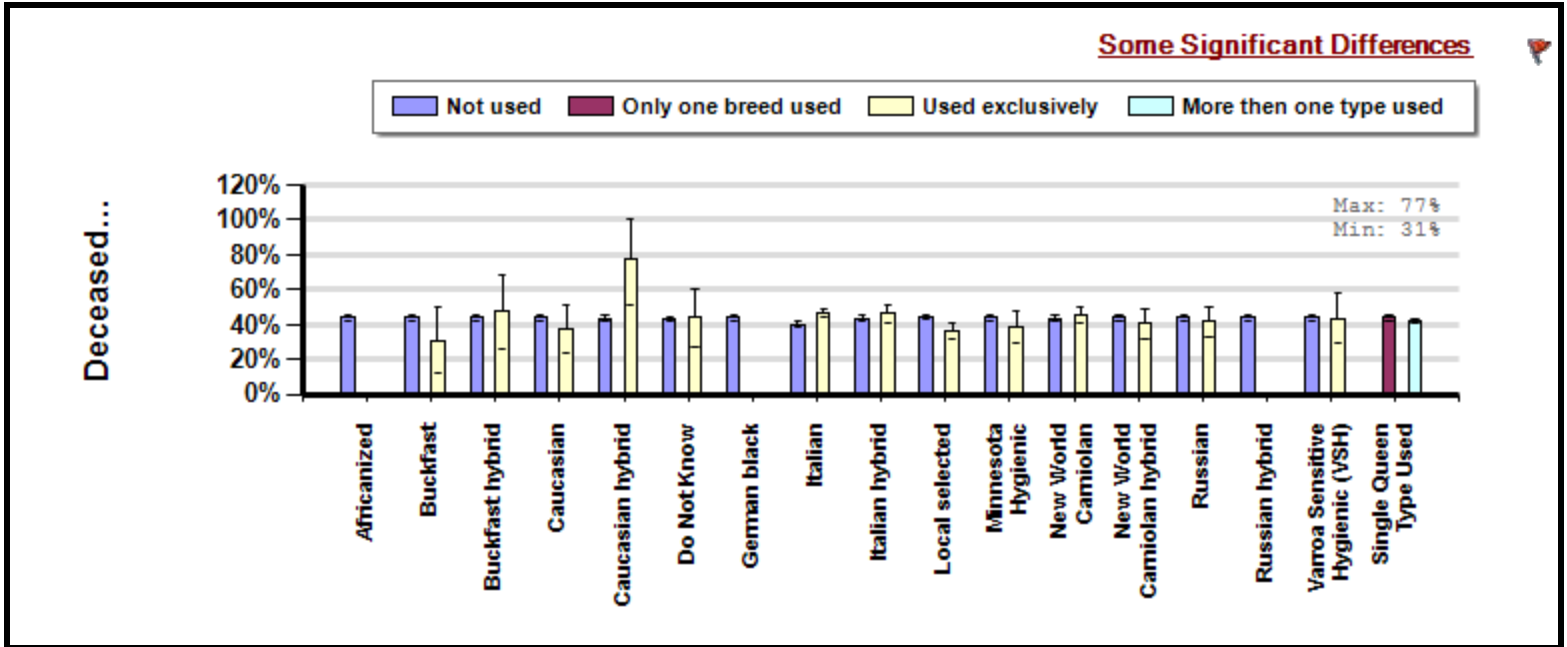
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Average winter colony mortality reported by beekeepers who indicated which race of bees they kept between April and March.

## Winter

Report ID: 206-2014



## Interpretation

Beekeepers who kept a locally selected race of bees reported 8.4 less overwintering colony deaths per 100 managed colonies (18.9% less losses) than beekeepers who did not keep a locally selected race of bees. Beekeepers who kept a Caucasian hybrid race of bees reported 33.5 more overwintering colony deaths per 100 managed colonies (43.4% more losses) than beekeepers who did not keep a Caucasian hybrid race of bees. Also, beekeepers who kept an Italian race of bees reported 6.4 more overwintering colony deaths per 100 managed colonies (13.7% more losses) than beekeepers who did not keep an Italian race of bees.

## Survey Question

What type or race of bees do you use in your operation?

- New World Carniolan
- New World Carniolan hybrid
- Caucasian
- Caucasian hybrid
- Italian
- Italian hybrid
- Buckfast
- Buckfast hybrid
- Russian
- Russian hybrid
- Varroa Sensitive Hygienic (VSH)
- Minnesota Hygienic
- German black
- Local selected
- Africanized
- Don't know

		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
Africanized	Not used	2,803	286,773	102.3	27.9	43.8 [42.4, 45.3]
Buckfast	Not used	2,788	286,704	102.8	28.1	43.9 [42.4, 45.3]
	Used exclusively	18	163	9.1	4.8	31.0 [11.9, 50.1]
Buckfast hybrid	Not used	2,792	286,634	102.7	28.0	43.8 [42.3, 45.2]
	Used exclusively	14	233	16.6	12.7	47.3 [26.1, 68.6]
Caucasian	Not used	2,776	286,729	103.3	28.2	43.9 [42.4, 45.3]
	Used exclusively	30	138	4.6	1.0	37.4 [23.7, 51.1]
Caucasian hybrid	Not used	2,797	286,827	102.5	28.0	43.7 [42.2, 45.1]
	Used exclusively	9	40	4.4	1.5	77.2 [51.2, 100.0]
Do Not Know	Not used	5,307	510,448	96.2	16.9	43.0 [42.0, 44.0]
	Used exclusively	24	136	5.7	1.5	44.0 [27.2, 60.8]
German black	Not used	2,803	286,723	102.3	27.9	43.8 [42.4, 45.3]
Italian	Not used	1,274	131,285	103.0	25.4	40.3 [38.2, 42.4]
	Used exclusively	1,532	155,582	101.6	46.5	46.7 [44.7, 48.7]
Italian hybrid	Not used	2,600	260,637	100.2	29.4	43.6 [42.1, 45.1]
	Used exclusively	206	26,230	127.3	79.7	46.1 [40.6, 51.5]
Local selected	Not used	2,583	276,870	107.2	30.1	44.5 [42.9, 46.0]
	Used exclusively	223	9,997	44.8	36.4	36.1 [31.6, 40.6]
Minnesota	Not used	2,745	285,060	103.8	28.5	43.9 [42.4, 45.4]



Hygienic	Used exclusively	61	1,807	29.6	16.1	<b>38.3 [29.2, 47.4]</b>
New World Carniolan	Not used	2,507	266,652	106.4	30.9	<b>43.6 [42.1, 45.1]</b>
	Used exclusively	299	20,215	67.6	37.8	<b>45.3 [40.8, 49.9]</b>
New World Carniolan hybrid	Not used	2,734	281,514	103.0	28.6	<b>43.9 [42.4, 45.4]</b>
	Used exclusively	72	5,353	74.3	52.3	<b>40.4 [31.7, 49.2]</b>
Russian	Not used	2,719	285,856	105.1	28.8	<b>43.9 [42.4, 45.3]</b>
	Used exclusively	87	1,011	11.6	3.7	<b>41.7 [33.1, 50.2]</b>
Russian hybrid	Not used	2,806	286,867	102.2	27.9	<b>43.8 [42.3, 45.2]</b>
Varroa Sensitive Hygienic (VSH)	Not used	2,778	286,277	103.1	28.2	<b>43.8 [42.3, 45.3]</b>
	Used exclusively	28	590	21.1	13.7	<b>43.6 [28.9, 58.2]</b>
Single Queen Type Used	Only one breed used	2,806	286,867	102.2	27.9	<b>43.8 [42.3, 45.2]</b>
	More than one type used	2,525	223,717	88.6	17.2	<b>42.2 [40.8, 43.6]</b>

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## Comments About This Data

For the analysis comparing individual queen types, only beekeepers using a single stock are considered. Beekeepers that use multiple stocks are not included in the comparisons of each type of stock.

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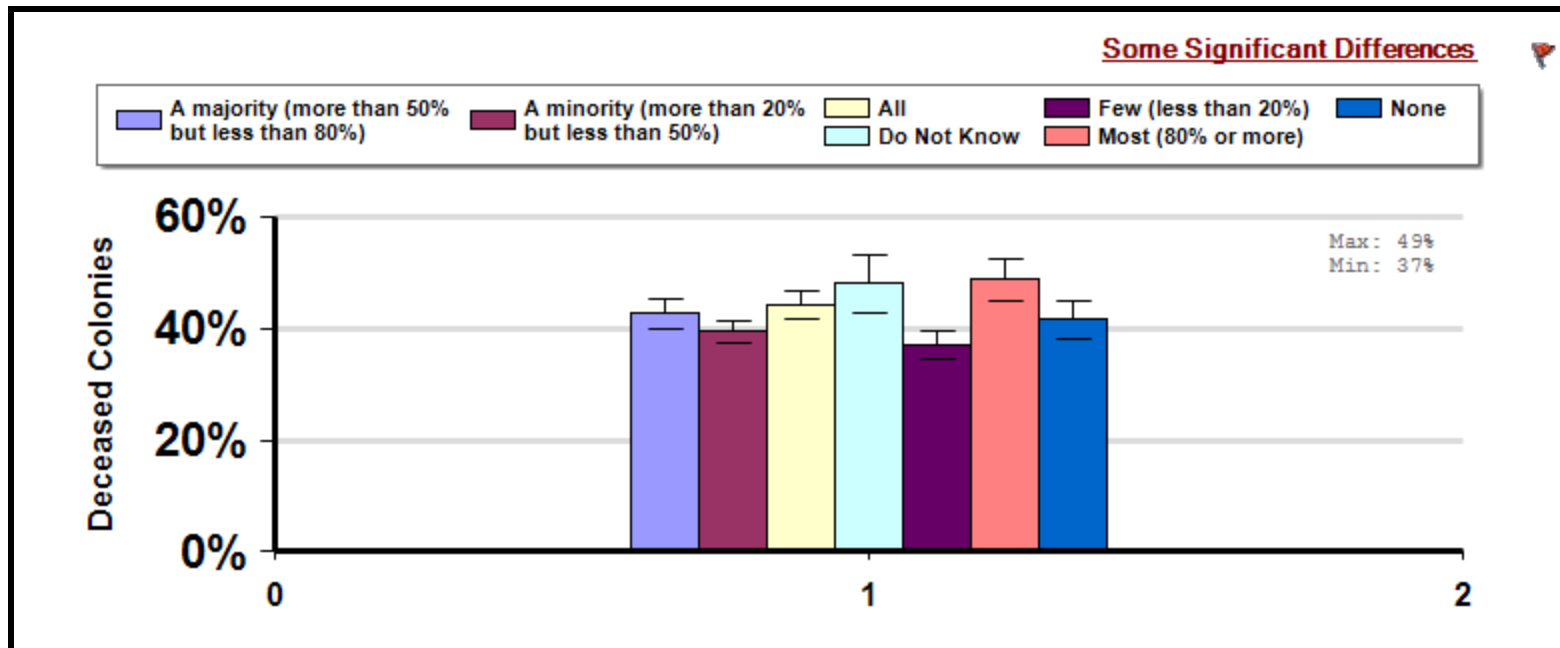
# Proportion of Operation Derived from Packages

Management Survey 2014

## Winter

Report ID: 239-2014

Average winter colony mortality reported by beekeepers starting new colonies with packages, between April and March by the proportion of their colonies that were alive on March of the following year and which had originated as packages earlier in the year.



### Interpretation

Beekeepers who started a few (less than 20%) new colonies with packages reported less overwintering colony deaths than those who only started from 50-100% of their colonies with packages. Similarly, beekeepers who started a minority (more than 20% but less than 50%) of their new colonies with packages reported less overwintering colony deaths than those who started from 80-100% of their colonies with packages.

### Survey Question

What proportion (percentage) of the colonies in your operation that were alive on October 1, 2013 came from splits, increases, or packages established or made the previous spring and summer, after April 1, 2013?

- None
- All
- Most (80% or more)
- A majority (more than 50% but less than 80%)
- A minority (less than 50% but more than 20%)
- Few (less than 20%)
- Don't know
- Don't want to answer

		Total Number of Respondents Providing	Total Number of Colonies Managed	Average Number of Colonies Managed	Average Colony Loss

		Valid Responses				
				Mean	Standard Error	Mean(%) [Lower, Upper] CI
	A majority (more than 50% but less than 80%)	526	34,636	65.8	18.3	42.7 [39.8, 45.5]
	A minority (more than 20% but less than 50%)	917	118,996	129.8	35.4	39.4 [37.3, 41.5]
	All	990	50,167	50.7	20.4	44.1 [41.6, 46.7]
	Do Not Know	218	59,393	272.4	101.1	48.0 [43.0, 53.1]
	Few (less than 20%)	590	85,889	145.6	50.0	37.1 [34.4, 39.7]
	Most (80% or more)	317	121,073	381.9	221.1	48.8 [45.1, 52.6]
	None	515	2,126	4.1	0.3	41.6 [38.2, 45.1]

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