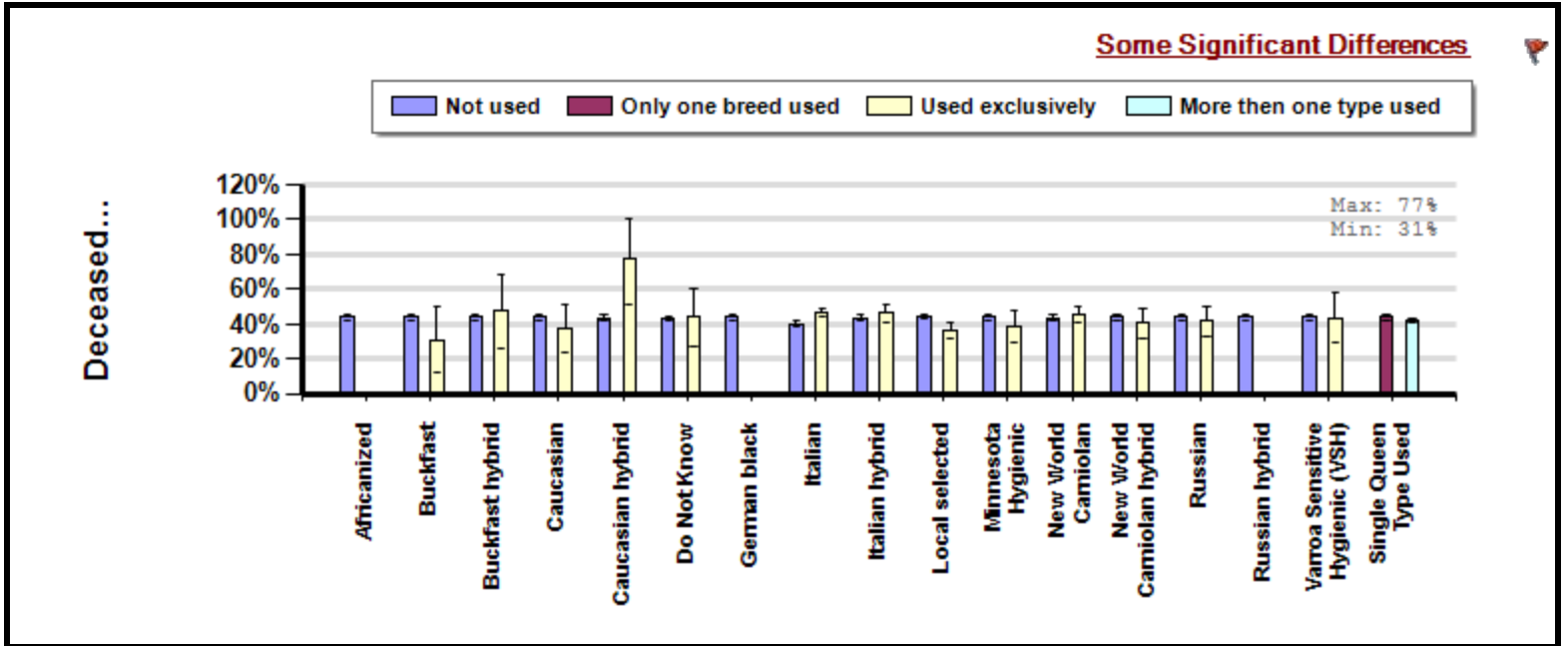




Average winter colony mortality reported by beekeepers who indicated which race of bees they kept between April and March.

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

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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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## Relevant Links, References, and Citations

Funded By:



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