## **Traits**

There are a large number of traits that Australian beekeepers are interested in. Honey production is considered the most important trait (Table 1).

Table 1. Relative importance (%) of traits to recreational/semi-commercial (<200 colonies), commercial (200-800 colonies), and large commercial (>800 colonies) beekeepers. Cells are coded based on importance from high (green) to low (red). Results from 2021 Plan Bee survey

Traits	<200	200-800	>800	Overall
Honey production	15.8	17.0	21.5	16.4
Aggression	10.5	11.8	3.7	10.2
Calmness	10.3	5.9	2.8	9.1
Hygienic behaviour	4.9	10.4	2.8	5.6
Brood pattern	4.8	5.2	5.5	4.9
Hive cleanliness	4.6	3.5	1.8	4.2
Swarm tendency	4.6	1.5	1.1	3.9
Small hive beetle resistance	3.3	3.1	11.0	3.9
Brood area	3.8	1.9	2.6	3.4
Pollination	3.4	2.9	3.2	3.3
Spring build-up	2.7	5.5	3.1	3.2
Chalkbrood resistance	2.5	5.2	4.4	3.0
Over-wintering	2.7	2.9	3.7	2.8
European foulbrood resistance	2.7	1.9	3.7	2.6
Varroa resistance	2.6	2.0	2.1	2.5
Queen acceptance	1.8	3.0	7.1	2.4
Ability to withstand extreme weather	2.3	1.9	1.1	2.2
Nosema resistance	2.1	1.4	2.8	2.0
Pollen production	2.0	1.3	1.5	1.9
Food stores in the brood nest	1.6	1.0	3.4	1.7
Quickly adapt brood rearing to conditions	1.6	1.0	1.8	1.5
Propolis production	1.5	0.7	1.1	1.3
Race	0.9	3.5	0.8	1.3
Wax production	1.4	0.6	0.9	1.3
Withstand travel	1.1	0.5	1.9	1.1
Body size	1.0	1.3	1.0	1.0
Royal jelly production	0.9	0.8	1.4	1.0
Burr/brace comb	1.0	0.5	0.4	0.9
Drone production	0.8	1.1	0.8	0.8
Colour	0.6	0.7	0.9	0.7