

Trees for Bees NZ Results for Protein Content of Pollen in selected plant species found to be visited by honey bees in New Zealand

Version 1.0 on February 8th, 2014.

Protein levels ranged from 14 % to 35%. The samples measured were categorised into each group according to protein level in the following way: the High group has 25% or over protein in pollen, Medium group has between 17% and 25% not including the border values of 17% and 25% and the low group has equal to 17% or below. Protein was analysed from bee-collected pollen.

Many of these species are new to the list of bee plants recorded in the New Zealand literature.

Protein Class	No.	Genus	Species	Common Name
High	1	<i>Brassica</i>	<i>napus 'Greenlandica'</i>	Brassica
High	2	<i>Ceanothus</i>	<i>papillosus</i>	California Lilac
High	3	<i>Chamaecytisus</i>	<i>palmensis</i>	Tree Lucerne
High	4	<i>Cordyline</i>	<i>fruticosa</i>	Cabbage Tree
High	5	<i>Hypericum</i>	<i>perforatum</i>	St. John's Wort
High	6	<i>Luma</i>	<i>apiculata</i>	Chilean Bark Myrtle
High	7	<i>Malus</i>	<i>domestica (Braeburn)</i>	Apple
High	8	<i>Melaleuca</i>	<i>squarrosa</i>	Yellow Bottle Brush
High	9	<i>Paeonia</i>	<i>suffruticosa</i>	Yellow Tree Peony Bee
High	10	<i>Phacelia</i>	<i>tanacetifolia</i>	Phacelia
High	11	<i>Prunus</i>	<i>persica</i>	Black Boy Peach
High	12	<i>Raphanus</i>	<i>raphanistrum</i>	Radish
High	13	<i>Camellia</i>	<i>japonica</i>	Camellia
High	14	<i>Ceanothus</i>	<i>impressus</i>	Ceanothus sp.
High	15	<i>Malus</i>	<i>x astringens</i>	Thunderchild crabapple
High	16	<i>Michelia</i>	<i>yunnanensis</i>	Michelia
High	17	<i>Photinia</i>	<i>beauverdiana</i>	Photinia
High	18	<i>Pittosporum</i>	<i>eugenioides</i>	Tarata, lemonwood

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High	19	<i>Pittosporum</i>	<i>tenuifolium</i>	Kohuhu, black matipo
High	20	<i>Prunus</i>	<i>hirtipes</i>	Cherry blossom
High	21	<i>Prunus</i>	<i>laurocerasus</i>	Cherry Laurel
High	22	<i>Pyrus</i>	<i>communis</i>	Pear

Medium	23	<i>Choisya</i>	<i>ternata</i>	Mexican Orange Blossom
Medium	24	<i>Convolvulus</i>	<i>cneorum</i>	Silverbush
Medium	25	<i>Crepis</i>	<i>versicaria</i>	Beaked Hawk's-beard
Medium	26	<i>Foeniculum</i>	<i>vulgare</i>	Fennel
Medium	27	<i>Hedera</i>	<i>helix</i>	Ivy
Medium	28	<i>Hoheria</i>	<i>populnea</i> x <i>H. sexstylosa</i>	Lacebark
Medium	29	<i>Hoheria</i>	<i>sexstylosa</i>	Long leaved lacebark, ribbonwood
Medium	30	<i>Michaelia</i>	<i>doltsopa</i>	Sweet Michaelia
Medium	31	<i>Taraxacum</i>	<i>officinale</i>	Dandelion
Medium	32	<i>Thymus</i>	<i>officinalis</i>	Thyme
Medium	33	<i>Trifolium</i>	<i>repens</i>	White clover
Medium	34	<i>Acer</i>	<i>palmatum</i>	Japanese Maple
Medium	35	<i>Acer</i>	<i>tartaricum</i>	Tartarian Maple, Amur Maple
Medium	36	<i>Amelanchier</i>	<i>canadensis</i>	Serviceberry
Medium	37	<i>Choisya</i>	<i>Xdewitteana</i>	Mexican Orange Blossom
Medium	38	<i>Cistus</i>	<i>creticus</i>	Rock Rose
Medium	39	<i>Citrus</i>	<i>limon</i>	Lemon
Medium	40	<i>Cydonia</i>	<i>oblonga</i>	Quince
Medium	41	<i>Fraxinus</i>	<i>ornus</i>	Manna ash

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Medium	42	<i>Greyia</i>	<i>flanaganii</i>	Kei bottlebrush
Medium	43	<i>Halesia</i>	<i>carolina</i>	Silverbell
Medium	44	<i>Quercus</i>	<i>canariensis</i>	Algerian oak
Medium	45	<i>Quercus</i>	<i>candicans</i>	Mexican oak
Medium	46	<i>Quercus</i>	<i>crassifolia</i>	Oak
Medium	47	<i>Quercus</i>	<i>laeta</i>	Oak
Medium	48	<i>Quercus</i>	<i>robur</i>	English Oak
Medium	49	<i>Quercus</i>	<i>salicina</i>	Japanese willowleaf oak
Medium	50	<i>Rosemarinus</i>	<i>officinalis</i>	Rosemary
Medium	51	<i>Viburnum</i>	<i>plicatum</i>	Japanese snowball
Low	52	<i>Fagopyrum</i>	<i>esculentum</i>	Buckwheat
Low	53	<i>Hebe</i>	<i>salicifolia</i>	Koromiko, hebe
Low	54	<i>Helenium</i>	<i>flexuosum</i>	Purple-headed sneezeweed
Low	55	<i>Helianthemum</i>	<i>nummularium</i>	Common Rockrose
Low	56	<i>Viburnum</i>	<i>tinus</i>	Laurustinus
Low	57	<i>Coprosma</i>	<i>repens</i>	New Zealand laurel
Low	58	<i>Coprosma</i>	<i>robusta</i>	Karamu
Low	59	<i>Pomaderris</i>	<i>kumeraho</i>	Kumeraho