

Quantification of attractiveness of bee-friendly plants, 2014 – 2019

by Rosi Rollings

Plant name	Simple ratings (bees per square meter x weeks in flower)						Rationalised ratings by bee group				
	2019	2018	2017	2016	2015	2014	average rating	Honey bee	Bumblebee	Solitary bee	Total rationalised
Geranium rozanne	98.0	90.0					94.0	0.42	0.18	0.90	1.50
Calamint	161.0	159.1	116.7	94.0	67.2		119.6	1.00	0.35	0.14	1.49
Origanum vulgare white	145.0	53.0	89.0				95.7	0.78	0.17	0.17	1.12
Echium vulgare	63.0	34.2	36.0	66.6	113.4	70.0	63.9	0.17	0.91	0.03	1.11
Helenium autumnale	44.0	97.6	90.0	78.0	152.0	69.0	88.4	0.80	0.04	0.24	1.08
Nepeta racemosa	108.0	49.0	35.0	48.0	48.0		57.6	0.07	1.00	0.01	1.08
Lavandula eidelweis	103.0	67.0	95.0	47.0	55.0		73.4	0.37	0.62	0.01	1.00
Borage (spring germinated)			84.0		55.0	97.7	78.9	0.71	0.19	0.05	0.94
Helenium SEF	56.4	73.0	95.8	90.7	94.0	51.0	76.8	0.69	0.14	0.10	0.92
Stachys byzantina	22.0	0.0	54.2	40.0	70.0		37.2	0.03	0.66	0.23	0.92
Lavandula grosso	87.0	47.0	28.0				54.0	0.19	0.71	0.00	0.90
Origanum vulgare	116.0	67.0	36.0	84.0	84.1	41.7	71.5	0.66	0.19	0.03	0.88
Knautea macedonica	90.0	28.5	61.0	42.0	39.0	14.4	45.8	0.02	0.80	0.02	0.85
Teucrium hircanicum	128.0	63.2	57.0	61.0	84.0	28.0	70.2	0.64	0.16	0.03	0.84
Veronicastrum virginicum	81.6	78.0	105.0	40.0	99.0	30.0	72.3	0.69	0.13	0.01	0.83
Eryngium planum	35.0	58.0	58.0	76.0	30.0	26.4	47.2	0.21	0.29	0.33	0.82
Veronica spicata	62.0	41.8	44.0	44.0	67.0	46.0	50.8	0.24	0.55	0.01	0.80
Centaurea scabiosa		80.0	43.0		56.0		59.7	0.44	0.34	0.01	0.79
Hyssopus	49.6		43.0	35.7	49.0	62.0	47.9	0.19	0.57	0.03	0.79
Sedum spectabile	70.0	79.0	66.0	32.0	145.4	15.0	67.9	0.72	0.04	0.01	0.78
Origanum onites	84.0	40.0					62.0	0.61	0.09	0.00	0.69
Eryngium giganteum	68.0	82.0	30.0	24.0	38.0		48.4	0.33	0.32	0.03	0.68
Lavandula sawyers		45.0					45.0	0.28	0.36	0.00	0.64
Thymus serpyllum	49.3						49.3	0.42	0.16	0.03	0.61
Succisa pratensis	24.0	44.0	28.1	14.0	56.3		33.3	0.10	0.46	0.05	0.61

Echinops blue glow	48.0						48.0	0.39	0.21	0.00	0.60
Aster novi belgii	34.7	103.0	41.0	28.0			51.7	0.38	0.18	0.04	0.59
Echium blue bedder			40.0		25.1	40.0	35.0	0.14	0.36	0.09	0.59
Salvia nemorosa	67.3	22.7	32.0	9.0	37.0	14.0	30.3	0.04	0.50	0.03	0.57
Rudbeckia fulgida	29.6	39.2	33.3	36.3	36.0	13.0	31.2	0.15	0.08	0.33	0.56
Agastache foeniculum		30.0	52.0	22.0	45.0	17.0	33.2	0.03	0.51	0.01	0.55
Agastache blue boa			36.0	44.0	4.0		28.0	0.03	0.50	0.00	0.53
Scabioius columbaria	34.0	18.0	39.0	19.0	75.0	18.0	33.8	0.17	0.35	0.01	0.52
Stachys sylvaticum	19.0	18.0	36.0	31.3			26.1	0.00	0.48	0.05	0.52
Phacelia			36.0				36.0	0.20	0.32	0.00	0.51
Geranium spinners	44.0	9.3					26.7	0.06	0.26	0.17	0.49
Phacelia SG			17.0	20.0	47.0	46.5	32.6	0.20	0.27	0.00	0.47
Helenium moorheim beauty	38.0	52.0	36.0				42.0	0.42	0.00	0.04	0.47
Chicory	29.0	20.0					24.5	0.04	0.12	0.31	0.46
Erysimum Bowles Mauve	26.7	17.0	9.3	15.0	62.7	15.1	24.3	0.04	0.34	0.07	0.45
echinops star frost		36.0	66.0	17.0			39.7	0.38	0.07	0.00	0.45
Dahlia mignon			24.0				24.0	0.04	0.40	0.00	0.44
Cosmos brightlights		22.0					22.0	0.02	0.32	0.09	0.43
Knautea arvensis					30.0	14.0	22.0	0.05	0.36	0.01	0.42
Geranium pheaum	19.0	22.0	15.0	24.0	29.7		21.9	0.03	0.38	0.00	0.41
Nepeta mussinii	22.6		31.7	5.0	30.0	21.0	22.1	0.05	0.31	0.04	0.40
Lavandula angustifolia					33.0	14.0	23.5	0.07	0.33	0.00	0.40
Stachys officianalis	28.0	15.0	12.0	19.0	27.0		20.2	0.01	0.29	0.09	0.40
Rudbeckia speciosa			21.4	23.0	19.0		21.1	0.07	0.04	0.29	0.39
Echinacea purpurea	28.0	16.0	34.0	18.0	36.0	2.0	22.3	0.06	0.32	0.00	0.39
Anthemis tinctoria	15.0	10.7	26.0	14.0			16.4	0.00	0.00	0.38	0.38
Centaurea montana	13.0	30.0	22.0	14.0	17.0	19.0	19.2	0.01	0.31	0.07	0.38
Salvia annual clary	28.0	28.0					28.0	0.04	0.26	0.08	0.38
Melliot			30.0				30.0	0.24	0.12	0.02	0.38
Lavandula munstead	53.0	15.0	26.7	34.0			32.2	0.19	0.19	0.00	0.38
Malva alcea		28.0	50.0				39.0	0.37	0.00	0.00	0.37

Monarda Jacob Cline			18.7	26.7			22.7	0.10	0.26	0.00	0.36
Campanula harebell					34.0	4.0	19.0	0.05	0.07	0.24	0.36
Allium schoenoprasum	34.0	29.0	15.6	6.0	15.0	4.0	17.3	0.02	0.30	0.03	0.36
Monarda didyma pink					25.3	7.0	16.2	0.00	0.35	0.00	0.35
Cosmos	13.0	21.3	33.0		18.0		21.3	0.09	0.22	0.03	0.35
Verbena bonariensis	16.0	6.0	11.0	24.0	44.0	33.3	22.4	0.09	0.25	0.00	0.34
Eupatorium cannabinum		18.0	3.0	32.0	54.0		26.8	0.23	0.02	0.10	0.34
Cirsium rivulare		4.0	6.7				5.3	0.01	0.31	0.02	0.34
Campanula persicifolia	46.0	21.3	9.3	5.3	11.0	3.0	16.0	0.04	0.03	0.26	0.32
Geranium macrorrhizum	28.8	10.0	8.0	8.7	24.0		15.9	0.00	0.30	0.01	0.31
Centaurea nigra					16.0		16.0	0.02	0.28	0.00	0.30
Borage (over-wintered)					26.3	22.8	24.6	0.22	0.07	0.00	0.29
Perovskia	25.3						25.3	0.24	0.05	0.00	0.29
Solidago canadensis	25.0	21.0	6.7	2.0	15.0		13.9	0.04	0.00	0.24	0.27
Echinacea white		13.3	24.0				18.7	0.20	0.07	0.00	0.27
Dahlia bishops		7.0	22.0				14.5	0.03	0.23	0.00	0.26
Malva moschata		11.0	18.0		32.0	9.0	17.5	0.11	0.13	0.02	0.26
Valerian	4.0	22.7	20.0				15.6	0.07	0.13	0.06	0.26
Geranium pratense	25.0	12.0	22.0	20.0	16.0	19.0	19.0	0.14	0.11	0.00	0.25
Cirsium heterophyllum			12.0				12.0	0.00	0.20	0.05	0.24
Cerithe major	8.0	13.0	14.0				11.7	0.00	0.21	0.03	0.24
Calendula		22.7			6.0	2.0	10.2	0.04	0.03	0.16	0.23
Thymus vulgare	35.7		2.0				18.8	0.17	0.03	0.03	0.23
Agastache golden jubilee	12.0						12.0	0.02	0.16	0.05	0.23
Salvia 'neon'	10.0						10.0	0.00	0.21	0.00	0.21
Digitalis	10.0		2.0	13.0	21.0	6.0	10.4	0.01	0.19	0.00	0.20
Geranium cantabridgense	2.3	10.0	6.0	12.0	18.2		9.7	0.00	0.18	0.01	0.19
Lavandula stoechas				7.0	20.0	2.0	9.7	0.00	0.19	0.00	0.19
Bupthalmum	40.0		8.0				24.0	0.00	0.01	0.17	0.18
Calendula oopsy daisy			8.0				8.0	0.00	0.03	0.15	0.18
Verbascum sixteen candles		20.0	9.0				14.5	0.14	0.03	0.00	0.17
Scabious japonica	12.0	6.7	12.0	3.3	8.0		8.4	0.00	0.15	0.01	0.16

Allium nectaroscordum		12.0				12.0	0.08	0.08	0.00	0.16	
Pulmonaria			8.0	10.0	6.0	8.0	0.00	0.15	0.02	0.16	
Teasel				5.0	9.0	0.0	4.7	0.00	0.14	0.00	0.14
Allium roseum	12.0	11.0	12.0	6.8	10.0	4.0	9.3	0.02	0.10	0.02	0.14
Salvia bienial clary	13.0	6.7			2.0		7.2	0.01	0.13	0.00	0.14
campanula carpatica				10.0			10.0	0.00	0.00	0.14	0.14
Doronimum caucasicum					20.0	2.0	11.0	0.01	0.00	0.11	0.12
Aster amellus					12.0	0.0	6.0	0.00	0.09	0.03	0.12
Lavandula little lottie		10.0	6.7				8.3	0.05	0.07	0.00	0.12
Dianthus barbatus		11.0		0.0	10.0		7.0	0.00	0.11	0.00	0.12
Salvia 'blue skies'	10.0						10.0	0.00	0.10	0.00	0.10
Cheiranthus cheirii		10.0		5.3	2.0	2.0	4.8	0.01	0.02	0.05	0.08
Geranium oxonianum		4.0					4.0	0.00	0.05	0.03	0.08
Centaurea dealbata				4.0			4.0	0.00	0.08	0.00	0.08
Monarda didyma red					4.0	4.0	4.0	0.01	0.07	0.00	0.07
Anemone hupehensis		10.0	4.0				7.0	0.07	0.00	0.00	0.07
Ageratum			5.3				5.3	0.04	0.00	0.03	0.07
Limnathes douglasii	6.7	8.0					7.3	0.05	0.01	0.02	0.07
Geranium magnificum		16.0					16.0	0.03	0.02	0.02	0.07
Verbascum phoeniceum					4.0	2.0	3.0	0.00	0.05	0.01	0.06
Erysimum Winter joy					2.0	4.0	3.0	0.01	0.04	0.00	0.05
Papaver orientale				1.0	2.0	4.0	2.3	0.01	0.04	0.00	0.05
Leucanthemum vulgare			2.0	1.0	5.0	0.0	2.0	0.00	0.02	0.02	0.04
Kniphofia					4.0		4.0	0.00	0.04	0.00	0.04
Allium unifolium		4.0	2.0	2.0	2.0	1.0	2.2	0.00	0.02	0.02	0.04
Centranthus rubra					2.0	1.0	1.5	0.00	0.03	0.00	0.03
Forget me not		3.0	2.0	0.0	2.0		1.8	0.00	0.01	0.02	0.03
Cleome		0.0					0.0	0.00	0.00	0.00	0.00
Red Campion					0.0		0.0	0.00	0.00	0.00	0.00