

**Table(1): Ovarian development index and inhibitory effect of some essential oils in honey bee workers, at a period of 21 days.**

Days following queenless	Ovarian development index (Mean±SD) and inhibition (%)								
	Spearmint	Fennel	Eucalyptus	Citronella	Geranium	Coriander	Thyme	Anise	Control
3	1.11 ±0.04	1.13 ±0.0	1.11 ±0.04	1.15 ±0.04	1.11 ±0.04	1.18 ±0.04	1.15 ±0.04	1.29 ±0.03	1.11 ±0.04
6	1.13 ±0.07	1.15 ±0.04	1.15 ±0.04	1.18 ±0.04	1.20 ±0.07	1.20 ±0.07	1.18 ±0.04	1.38 ±0.04	1.22 ±0.04
9	1.11 ±0.04	1.15 ±0.04	1.18 ±0.04	1.25 ±0.04	1.20 ±0.07	1.27 ±0.07	1.31 ±0.03	1.49 ±0.03	1.33 ±0.07
12	1.13 ±0.07	1.18 ±0.04	1.15 ±0.04	1.18 ±0.04	1.27 ±0.07	1.31 ±0.03	1.31 ±0.03	1.49 ±0.03	1.53 ±0.07
15	1.08 ±0.04	1.18 ±0.04	1.27 ±0.07	1.15 ±0.04	1.22 ±0.04	1.31 ±0.03	1.33 ±0.07	1.67 ±0.14	1.67 ±0.67
18	1.08 ±0.04	1.20 ±0.07	1.31 ±0.03	1.27 ±0.07	1.33 ±0.07	1.31 ±0.03	1.49 ±0.08	1.73 ±0.06	1.82 ±0.08
21	1.08 ±0.04	1.27 ±0.07	1.29 ±0.03	1.31 ±0.03	1.40 ±0.07	1.33 ±0.07	1.91 ±0.10	1.62 ±0.04	1.80 ±0.13
Grand mean±SD	1.10 <sup>D</sup> ±0.02	1.18 <sup>CD</sup> ±0.05	1.21 <sup>CD</sup> ±0.08	1.21 <sup>CD</sup> ±0.06	1.24 <sup>BCD</sup> ±0.09	1.27 <sup>BC</sup> ±0.06	1.38 <sup>AB</sup> ±0.26	1.52 <sup>A</sup> ±0.15	1.50 <sup>A</sup> ±0.28
Ovarian inhibition (%)	80.0	64.0	58.0	58.0	52.0	46.0	24.0	-4.0	-

Means have the same letter(s) are not significantly different at 0.05 level of probability.