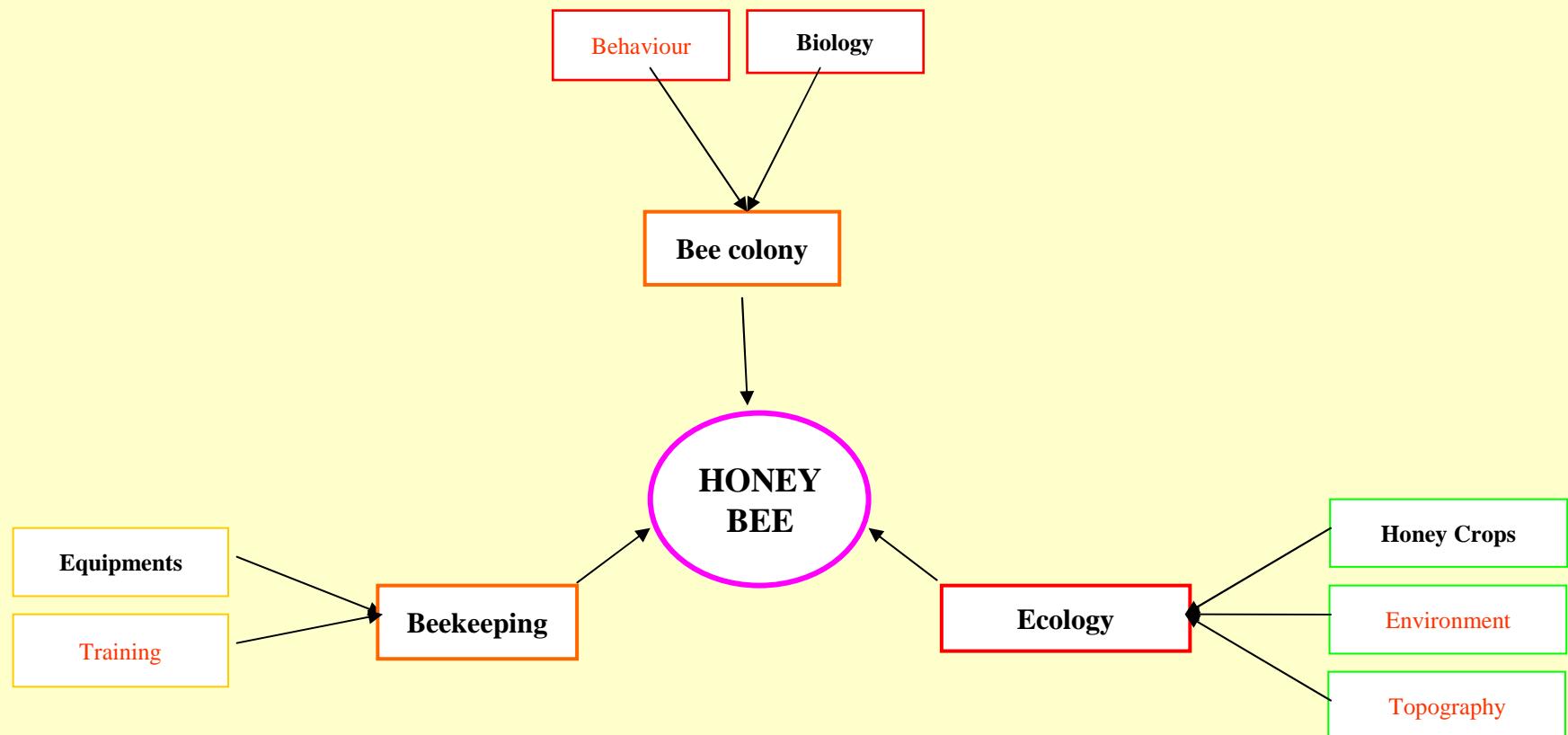


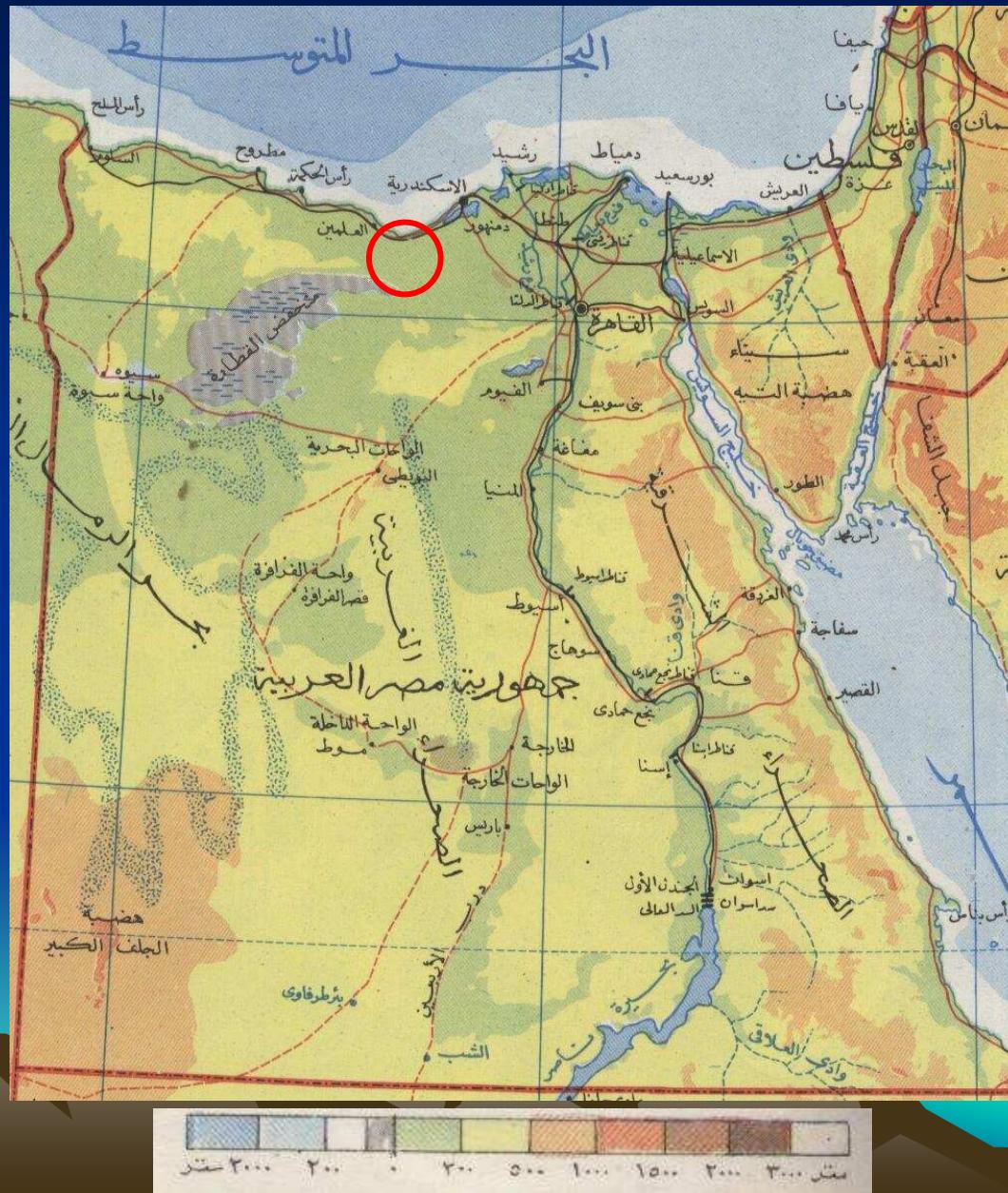
NEW APPROACH OF BEEKEEPING IN EGYPT

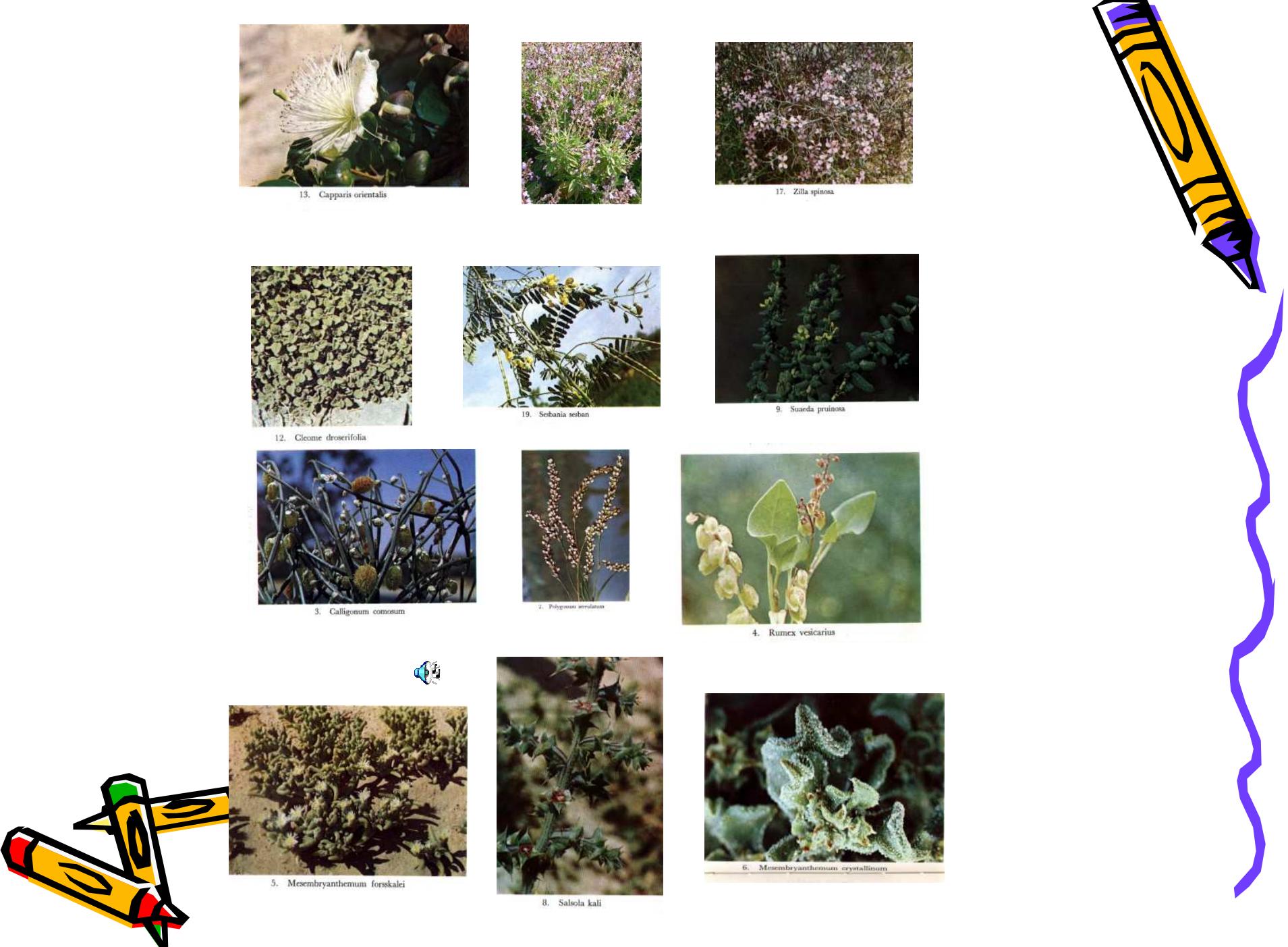
Dr. Elbassiouny, A.M. – Mady, I.A

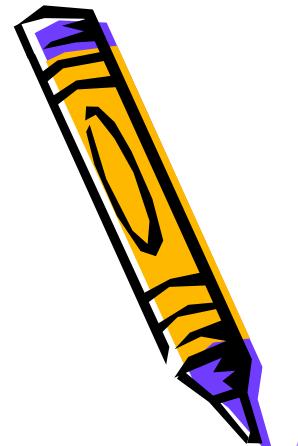
اتجاه جدید لذوق النحل في مصر
د. عادل بسيونى - إبراهيم ماضى



TOPOGRAPHY







23. *Peganum harmala*



20. *Bh. Lomice. flowers*



14. *Capparis decidua*



17. *Zilla spinosa*



15. *Diplotaxis harra*



21. *Tribulus longipetalus*



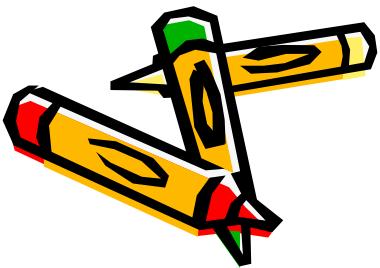
24. *Euphorbia helioscopia*



29. *Ephedrum hieratum*



27. *Citrullus colocynthis*



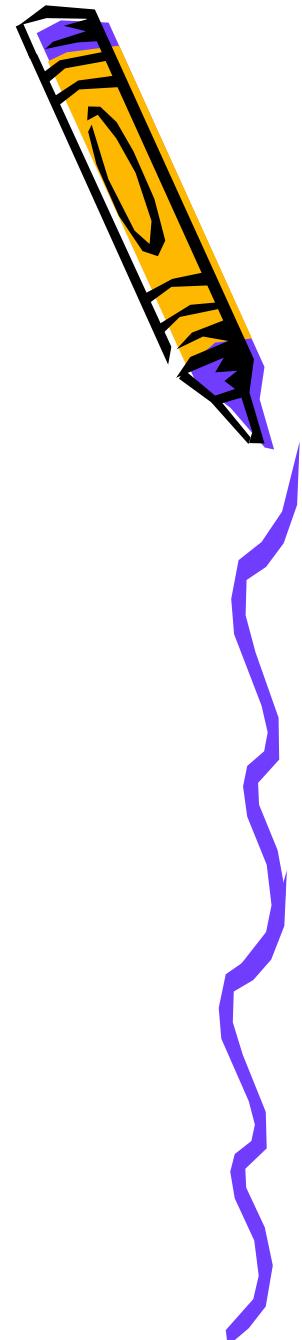
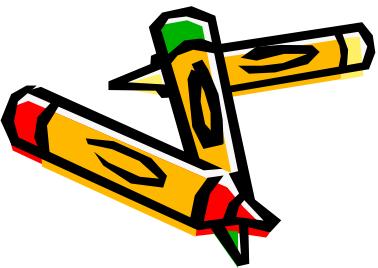
25. *Thymelaea hirsuta*



22. *Fagonia cretica*



26. *Reaumuria mucronata*





47. *Conyza dioscoridis*



49. *Potamogeton nodosus*



51. *Eichhornia crassipes*



50. *Leopoldia comosa*



53. *Gladiolus segetum*



54. *Imperata cylindrica*



64. *Cyperus alopecuroides*



58. *Echinochloa cokeri*



62. *Lemna gibba*



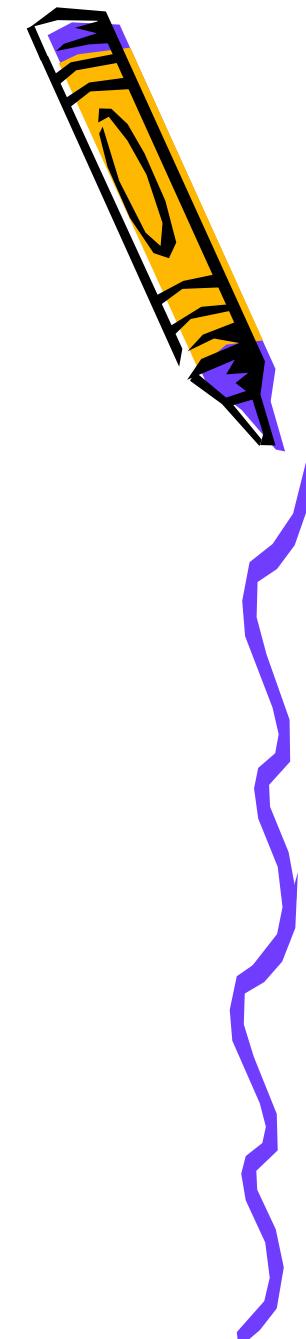
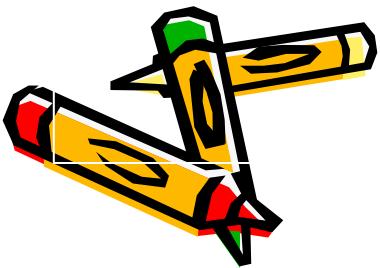
61. *Pistia stratiotes*

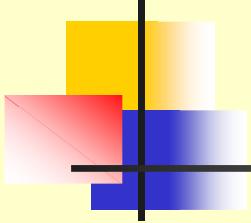


58. *Paspalum distichum*



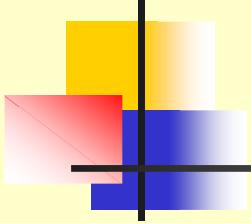
56. *Echinochloa colona*





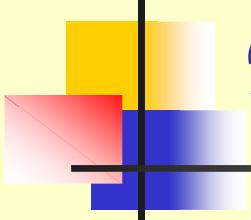
Brood





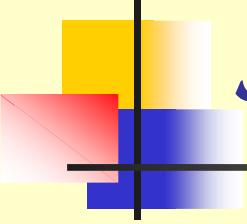
Honey





Brood & Honey





Selection

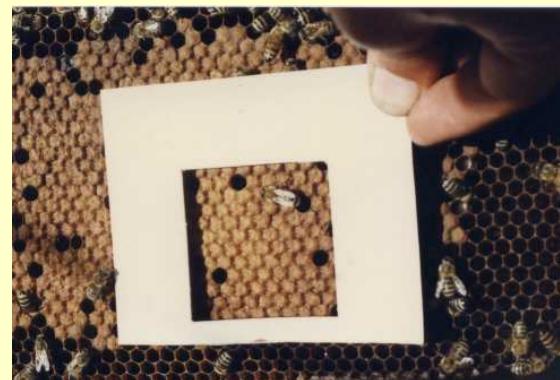


Table (1): Average numbers of combs covered with adult worker bees in the experimental honey bee colonies (mean \pm S.D.)

Inspection date	Average combs / colony (\pm S.D.)			
	1 st Group (5 Comps)	2 nd Group (3 Comps)	3 rd Group (4 Comps)	New divisions
Oct. 16 / 2004	5.0 \pm 0.0	3.0 \pm 0.0	4.0 \pm 0.0	-
29	5.0 \pm 0.0	3.0 \pm 0.5	3.8 \pm 0.4	-
mean \pm s.e.	5.0 \pm 0.1	3.1 \pm 0.3	3.9 \pm 0.1	-
Nov. 12	5.1 \pm 0.3	3.0 \pm 0.5	3.2 \pm 0.7	-
25	4.7 \pm 0.2	3.1 \pm 0.6	2.5 \pm 0.5	-
mean \pm s.e.	4.9 \pm 0.2	3.05 \pm 0.4	2.85 \pm 0.2	-
Dec. 8	4.6 \pm 0.4	3.4 \pm 0.4	2.5 \pm 0.6	-
21	4.5 \pm 0.3	3.2 \pm 0.6	2.3 \pm 0.4	-
mean \pm s.e.	4.55 \pm 0.1	3.3 \pm 0.3	2.4 \pm 0.1	-
Jan. 3 / 2005	4.5 \pm 0.5	3.9 \pm 0.6	2.4 \pm 0.3	-
16	4.9 \pm 0.4	4.4 \pm 0.5	2.3 \pm 0.4	-
29	5.5 \pm 0.4	4.9 \pm 0.4	2.2 \pm 0.5	-
mean \pm s.e.	4.97 \pm 0.3	4.4 \pm 0.2	2.3 \pm 0.1	-
Feb. 12	7.5 \pm 0.3	5.9 \pm 0.7	2.2 \pm 0.3	-
12	5.1 \pm 0.5	4.7 \pm 0.5	2.5 \pm 0.2	3.3 \pm 0.5
25	5.9 \pm 0.3	5.2 \pm 0.4	3.9 \pm 0.3	4.1 \pm 0.6
mean \pm s.e.	5.5 \pm 0.6	5.0 \pm 0.3	3.35 \pm 0.5	3.7 \pm 0.4
Mar. 10	6.7 \pm 0.6	6.3 \pm 0.4	4.8 \pm 0.5	4.5 \pm 0.5
23	7.8 \pm 0.4	7.1 \pm 0.6	5.7 \pm 0.6	5.1 \pm 0.6
mean \pm s.e.	7.25 \pm 0.5	6.7 \pm 0.3	5.25 \pm 0.4	4.8 \pm 0.3
F values	7.253			
LSD	1.087			

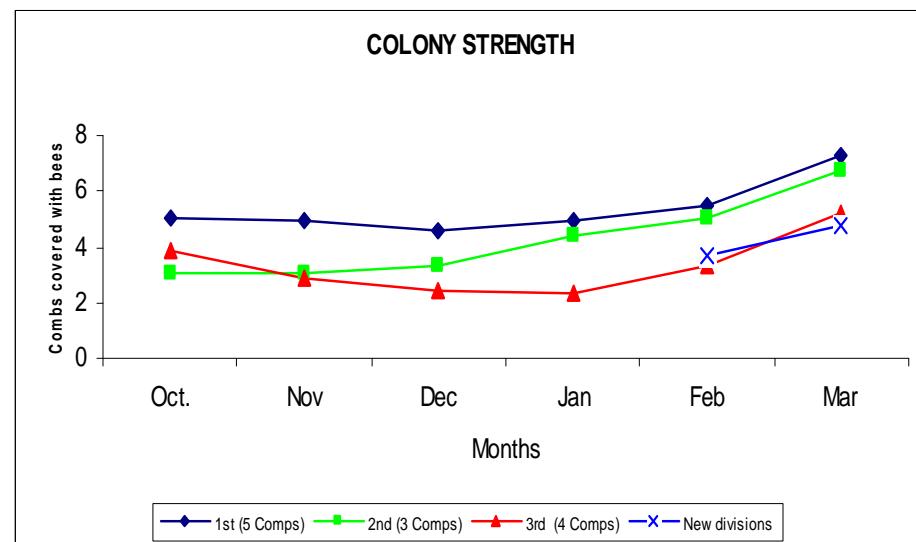


Table (2): Average numbers of worker brood combs in the experimental honey bee colonies (mean \pm S.D.).

Inspection date	Average brood combs / colony (\pm S.D.)			
	1 st Group (5 Comps)	2 nd Group (3 Comps)	3 rd Group (4 Comps)	New divisions
Oct. 16 / 2004	3.0 \pm 0.3	2.0 \pm 0.3	2.0 \pm 0.5	-
29	3.1 \pm 0.3	2.0 \pm 0.4	1.9 \pm 0.4	-
mean \pm s.e.	3.05 \pm 0.5	2.0 \pm 0.1	1.95 \pm 0.1	-
Nov. 12	3.2 \pm 0.2	2.1 \pm 0.4	1.9 \pm 0.3	-
25	3.5 \pm 0.6	2.2 \pm 0.3	1.7 \pm 0.4	-
mean \pm s.e.	3.35 \pm 0.2	2.15 \pm 0.1	1.8 \pm 0.1	-
Dec. 8	3.4 \pm 0.3	2.7 \pm 0.4	1.4 \pm 0.6	-
21	3.1 \pm 0.5	2.5 \pm 0.6	1.2 \pm 0.4	-
mean \pm s.e.	3.25 \pm 0.2	2.6 \pm 0.1	1.3 \pm 0.1	-
Jan. 3 / 2005	3.0 \pm 0.5	2.7 \pm 0.3	1.1 \pm 0.5	-
16	3.9 \pm 0.4	3.1 \pm 0.2	1.2 \pm 0.3	-
29	4.6 \pm 0.6	3.8 \pm 0.4	1.2 \pm 0.3	-
mean \pm s.e.	3.83 \pm 0.5	3.2 \pm 0.3	1.17 \pm 0.1	-
Feb. 12	5.2 \pm 0.8	4.6 \pm 0.7	1.7 \pm 0.4	-
12	3.9 \pm 0.4	3.6 \pm 0.5	1.7 \pm 0.6	2.3 \pm 0.4
25	3.9 \pm 0.3	4.3 \pm 0.5	2.6 \pm 0.5	2.4 \pm 0.5
mean \pm s.e.	3.9 \pm 0.1	3.95 \pm 0.4	2.15 \pm 0.4	2.35 \pm 0.1
Mar. 10	5.0 \pm 0.6	4.8 \pm 0.7	2.9 \pm 0.5	2.6 \pm 0.4
23	5.7 \pm 0.5	5.1 \pm 0.4	3.4 \pm 0.8	2.8 \pm 0.6
mean \pm s.e.	5.35 \pm 0.3	4.95 \pm 0.2	3.15 \pm 0.5	2.7 \pm 0.4
F values	8.762			
LSD	1.12			

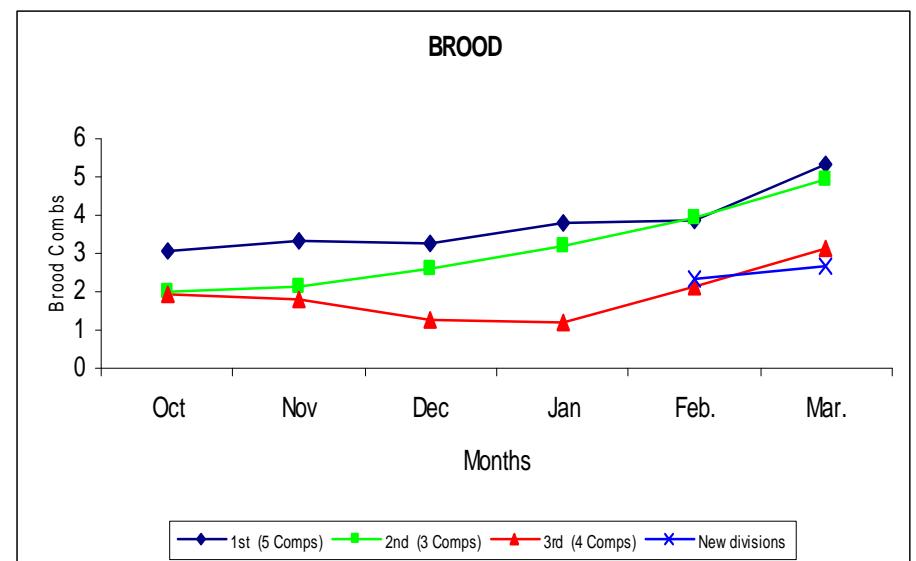


Table (3): Percentages of honey bee adult infestation with *Varroa destructor* in the experimental honey bee colonies (mean \pm S.D)

Inspection date	Average % of varroa / colony (\pm S.D.)			
	1 st Group (5 Comps)	2 nd Group (3 Comps)	3 rd Group (4 Comps)	New divisions
Oct. 16 / 2004	6.7 \pm 0.0	8.1 \pm 0.0	5.1 \pm 0.0	-
29	6.3 \pm 0.2	8.0 \pm 0.3	5.3 \pm 0.6	-
mean \pm s.e.	6.5 \pm 0.1	8.05 \pm 0.1	5.2 \pm 0.2	-
Nov.12	7.1 \pm 0.2	7.4 \pm 0.7	4.9 \pm 0.8	-
25	7.0 \pm 0.3	7.0 \pm 0.5	4.8 \pm 0.3	-
mean \pm s.e.	7.05 \pm 0.3	7.2 \pm 0.3	4.85 \pm 0.4	-
Dec.8	7.3 \pm 0.5	6.9 \pm 0.3	4.5 \pm 0.8	-
21	6.4 \pm 0.2	7.3 \pm 0.5	4.1 \pm 0.7	-
mean \pm s.e.	6.85 \pm 0.6	7.1 \pm 0.3	4.3 \pm 0.6	-
Jan. 3 / 2005	5.9 \pm 0.6	7.4 \pm 0.9	4.6 \pm 0.3	-
16	5.7 \pm 0.4	7.2 \pm 0.6	5.1 \pm 0.5	-
29	5.2 \pm 0.3	6.8 \pm 0.3	4.7 \pm 0.5	-
mean \pm s.e.	5.6 \pm 0.4	7.13 \pm 0.2	4.8 \pm 0.6	-
Feb.12	4.4 \pm 0.4	5.4 \pm 0.6	4.2 \pm 0.2	-
12	4.4 \pm 0.4	5.4 \pm 0.6	4.2 \pm 0.2	3.4 \pm 0.4
25	2.7 \pm 0.7	3.2 \pm 0.5	3.1 \pm 0.4	3.0 \pm 0.9
mean \pm s.e.	3.5 \pm 0.5	4.3 \pm 0.4	3.6 \pm 0.4	3.2 \pm 0.6
Mar.10	1.8 \pm 0.8	2.1 \pm 0.4	2.5 \pm 0.6	2.4 \pm 0.4
23	1.6 \pm 0.2	1.2 \pm 0.7	2.0 \pm 0.4	2.1 \pm 0.5
mean \pm s.e.	1.7 \pm 0.1	1.65 \pm 0.2	2.25 \pm 0.3	2.25 \pm 0.4
F values	5.622			
LSD	0.55			

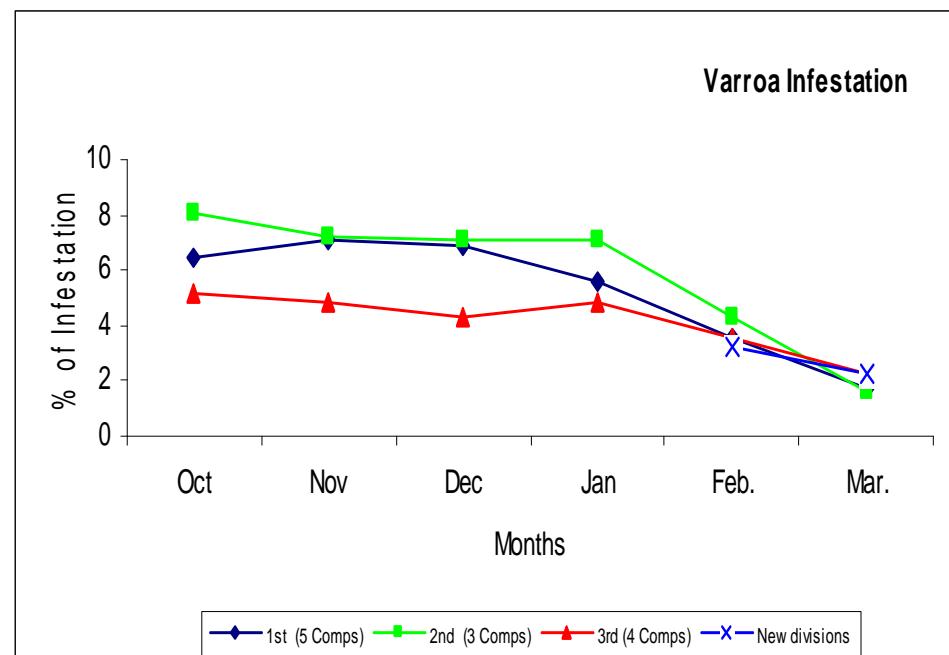
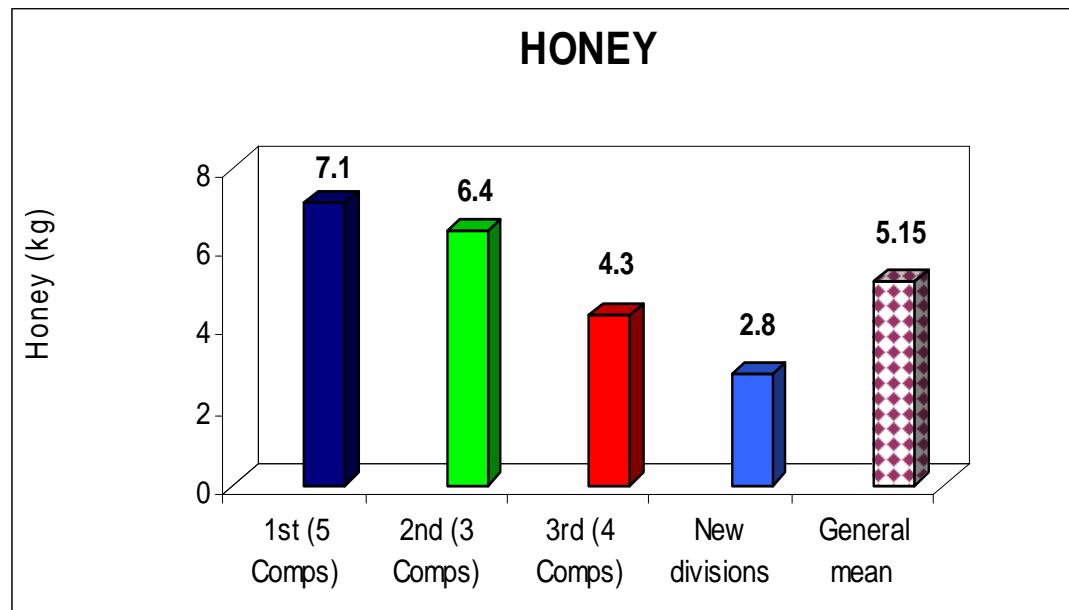


Table (4): Average harvested honey (kg / colony)
in the experimental honey bee colonies (mean \pm S.D.).

Harvesting date	Average honey (kg) / colony (\pm S.D.)			
	1 st Group (5 Comps)	2 nd Group (3 Comps)	3 rd Group (4 Comps)	New divisions
24 /3 / 2005	7.1 \pm 0.	6.4 \pm 0.77	4.3 \pm 0.56	2.8 \pm 0.63
General mean \pm s.e.	5.15 0.502			



THANKS