

CONTENT

	Page
INTRODUCTION	1
REVIEW OF LITERATURE	4
I- Brood Rearing	4
II- Queen Rearing	9
III- Honey	14
IV- Royal Jelly	20
V- Pollen Grains	29
VI- Biometric Characters	31
MATERIALS AND METHODS	44
RESULTS AND DISCUSSION	57
I- Brood Rearing	57
II- Honeybee Hybrids Activity For Queen Rearing	62
III- Honeybee Hybrids Activity For Royal Jelly Production	67
IV- Honeybee Races Activity During Different Honey Flow Seasons at Moshtohor Region	72
V- Different Honeybee Hybrids Activity For Gathering Pollen Grains	84
VI- Effect of Type of Honey Bee Hybrid on Biometric Characters of The Emerged Queens which Reared in Colonies From These Hybrids, the Artificial Methods (Doolittle) for Rearing Queen was used	92
VII-Biometric Characters Of Honey Bee Workers of Some F ₁ -hybrid Races	102
Discriminate Analysis of Some Characters of Workers and Interaction Between Different Honeybee Races	112
Hypopharyngeal Glands and Wax Glands of Honeybee Workers Measurements in Italian, Carniolan and Egyptian Bees	117
SUMMARY	121
REFERENCES	130
ARABIC SUMMARY	