

CONTENTS

I- INTRODUCTION.....	1
II- REVIEW OF LITERATURE.....	3
I-Heterosis.....	3
II- Genetic variance components.....	14
III- MATERIAL AND METHODS.....	33
Statistical procedures.....	35
Heterosis.....	37
General and specific combining ability estimates.....	37
Genetical components.....	41
IV- RESULTS AND DISCUSSION.....	45
Analysis of variance.....	45
Genotypes mean performance.....	50
Heterosis.....	56
Combining ability analysis.....	66
* General combining ability effects.....	72
* Specific combining ability effects.....	78
Genetic components.....	84
V- SUMMARY.....	92
VI- REFERENCES.....	98
VII- ARABIC SUMMARY.....	