

CONTENTS

	Page
1. INTRODUCTION	1
2. REVIEW OF LITURATURE	3
2.1. Heterosis.....	3
2.2. Combining ability.....	9
2.3. Genotype x environment interaction.....	19
3. MATERIALS AND METHODS	26
4. RESULTS AND DISCUSSION	37
4.1. Analysis of variance.....	37
4.2. Mean performance.....	38
4.3. Heterosis.....	45
4.4. Combining ability.....	48
5. SUMMARY	68
6. REFERENCES	76
7. ARABIC SUMMARY.....	1