

CONTENTS

	Page
INTRODUCTION	1
REVIEW OF LITERATURE	4
A- Effect of sowing methods treatments	4
B- Effect of weed control treatments.....	7
C- Effect of bio-organic fertilization treatments.....	16
MATERIALS AND METHODS	23
RESULTS AND DISCUSSION	30
A- Effect of sowing methods treatments	30
1. Growth	30
2. Wheat growth.....	32
3. Yield and yield components.....	32
4. Chemical composition of wheat grains.....	37
B- Effect of weed control treatments	39
1. Growth	39
2. Wheat growth.....	41
3. Yield and yield components.....	41
4. Chemical composition of wheat grains.....	47
C- Effect of bio-organic fertilization treatments	49
1. Growth	49
2. Wheat growth.....	49
3. Yield and yield components.....	53
4. Chemical composition of wheat grains.....	57
D- Effect of interaction between sowing methods x weed control treatments	60
1. Growth	60
2. Wheat growth.....	60
3. Yield and yield components.....	63
4. Chemical composition of wheat grains.....	67

E- Effect of interaction between sowing methods x bio organic fertilization treatments.....	69
1. Growth	69
2. Wheat growth.....	71
3. Yield and yield components.....	73
4. Chemical composition of wheat grains.....	78
F- Effect of interaction between bio – organic fertilization x weed control treatments.....	80
1. Growth	80
2. Wheat growth.....	80
3. Yield and yield components.....	84
4. Chemical composition of wheat grains.....	89
G- Effect of interaction between sowing methods x weed control x bio – organic fertilization treatments.....	91
1. Growth	91
2. Wheat growth.....	91
3. Yield and yield components.....	97
4. Chemical composition of wheat grains.....	105
SUMMARY	108
REFERENCES	119
ARABIC SUMMARY	