

<i>No</i>	<i>CONTENTS</i>	<i>Page</i>
1.	<b>INTRODUCTION</b>	1
2.	<b>REVIEW OF LITERATURE</b>	4
2.1.	Effect of nitrogen fertilization on wheat plants growth.	4
2.2.	Effect of nitrogen fertilization on nutrients uptake by wheat plants.	7
2.3.	Effect of organic manures on wheat plant growth.	10
2.4.	Effect of organic manures on nutrients uptake by wheat plants.	15
2.5.	Effect of soil moisture stress on wheat plants growth and their nutrients uptake.	20
2.6.	Effect of biofertilizers on wheat plants growth and their nutrients uptake.	27
2.7.	Chlorophyll content of wheat plants as influenced by soil conditioners, biofertilization and soil moisture stress	33
3.	<b>MATERIALS AND METHODS</b>	36
3.1.	Sources and rates of applied nitrogen.	36
3.2.	Sources and rates of soil conditioners.	38
3.3.	Biofertilizer.	38
3.4.	Experimental work.	38
3.4.1.	Experimental treatments and design	38
3.4.2.	Inoculation with bacteria and sowing of wheat grains	40
3.5.	Plant analysis .	40
3.6.	Chlorophyll determination	41
3.7.	Statistical analysis	41
4.	<b>RESULTS AND DISCUSSIONS</b>	42
4.1.	Wheat plants growth as influenced by different soil conditioners and biofertilization under different soil moisture levels.	42
4.2.	Nitrogen uptake by wheat plants as influenced by soil conditioners and biofertilization under different soil moisture levels.	56
4.3.	Phosphorus uptake by wheat plants as influenced by soil conditioners and biofertilization under different soil moisture levels.	65
4.4.	Potassium uptake by wheat plants as influenced by soil conditioners and biofertilization under different soil moisture levels.	79



4.5.	Iron uptake by wheat plants as influenced by soil conditioners and biofertilization under different soil moisture levels.	91
4.6.	Zinc uptake by wheat plants as influenced by soil conditioners and biofertilization under different soil moisture levels.	99
4.7.	Manganese uptake by wheat plants as influenced by soil conditioners and biofertilization under different soil moisture levels.	113
4.8.	Total chlorophyll in wheat leaf as influenced by soil conditioners and biofertilization under different soil moisture levels.	123
5.	<b>SUMMARY</b>	136
6.	<b>REFERENCES</b>	139
7.	<b>ARABIC SUMMARY</b>	