

CONTENTS

	Page
INTRODUCTION	1
REVIEW OF LITERATURE	3
MATERIAL AND METHODS	21
RESULTS AND DISCUSSION	34
I - Observation during growth	34
II - Number of tillers per plant	40
III - Grain production	47
IV - Dry weight	54
V - The percentage distribution of dry matter in the different parts of plants at various stages of growth	73
VI - Percentages increase and periodic increase percentage of dry matter at various stages of growth	86
VII - Nitrogen content of plant tissues	80
VIII - The percentages distribution of total nitrogen in the different parts at various stages of growth	100
IX - Percentage and periodic increase of nitrogen content of the whole plant at various stages of growth	104
X - Phosphorus content of plant tissues	108
XI - Percentage distribution of total phosphorus in the different parts at various stages of growth	124
XII - Percentage and periodic increase of phosphorus at various stages of growth...	128
SUMMARY	132
REFERENCES	135