## (vii)

•

•

## LIST OF FIGURES

Fig.No	• Title Aft	er Page
2.1	Panicum miliaceum L. Habit	8
2.2	Variation in the proso millet ear heads.	12
2.3	Morphology and floral structure in <u>P.miliaceum</u>	13
3.1	a) Changes in plant height, root length, root : shoot ratio and number of tillers and leaves of <u>P.miliaceum</u> during its growth and development.	61
	b) Changes in leaf area, fresh weight and dry weight of <u>P.miliaceum</u> during its growth and development.	61
3.2	Changes in NAR, RGR and LAR during different stages of development of <u>P.miliaceum</u> .	63
3•3	Changes in TAN, Polyphenols and Chlorophylls during growth and development of <u>P.miliaceum</u> .	66
3.4	Changes in Carbohydrate content during vegetative flag leaf and grain filling stages of growth in <u>P.miliaceum</u> .	67
3.5	Changes in proline and total nitrogen contents during vegetative, flag leaf and grain filling stages of growth in <u>P.miliaceum</u> .	
3.6	Changes in phosphorus, calcium, potassium and magnesium content during vegetative, flag leaf and grain filling stages of growth in <u>P.miliac</u>	
3•7	Changes in iron, manganese, silicon and sodium content during vegetative, Flag leaf and grain filling stages of growth in <u>P.miliaceum</u> .	84

ال مادينات بيان ک	(	vi	i	i	)
-------------------	---	----	---	---	---

,

Fig.No	• Title `	After Page
<b>4.1</b>	Effect of water stress on growth of <u>P.miliaceum.</u> L.	97
4.2	Effect of water stress on osmotic potential TAN and Polyphenols in the leaves of <u>P.miliaceum</u> .	L, 100
4•3	Effect of water stress on moisture content and organic constituents in different parts of <u>P_miliaceum</u> .	3 103
4•4	Effect of water stress on proline, reducing sugars and starch content in different part of <u>P.miliaceum</u> .	
4•5	Effect of water stress on phosphorus, Calci Potassium and magnesium contents of differe parts of <u>P.miliaceum</u> .	-
4.6	Effect of water stress on iron, manganese, Silicon and sodium in different parts of <u>P.miliaceum</u> .	128
4•7	Effect of water stress on stomatal apparatu in $\underline{P}$ .miliaceum.	ເຮ 1 <i>3</i> 5
5.1	Organic constituents of young, mature and senescent leaves of $\underline{P}$ .miliaceum.	150
5.2	Carbohydrate contents of young, mature and senescent leaves of $\underline{P}$ .miliaceum.	151
5•3	Inorganic constituents of Young (flag), mature and senescent leaves of <u>P.miliaceum</u> .	157
5•4	Changes in the activities of some important enzyme systems during leaf senescence in <u>P.miliaceum</u> .	164

i

,