Fig.No.	Particulars	Page No.
2.1	Location of Gujarat State in Indian Union	10
2.2	Map of Gujarat showing Altitudes	11
2.3	Geographical map of the State	12
2.4	Rivers of Gujarat	12
2.5	Rainfall distribution of Gujarat	14
2.6	Arid and semi-arid zones of Gujarat	18
2.7	Agroclimatic zones of the State	18
2.8	Soil Map of Gujarat	19
3.1	Weighing type Lysimeter	45
4.1	Layout of Meteorological Station	78
5.1	Irrigation projects nearby selected sites	98
6.1	Weekly Temperature - Dantiwada	114
6.2	Weekly Temperature - Anand	114
6.3	Weekly Temperature - Vadodara	115
6.4	Week ly Temperature - Junagadh	115
6.5	Weekly Temperature - Rajkot	116
6.6	Weekly Relative humidity - Dantiwada	116
6.7	Weekly Relative humidity - Anand	117
6.8	Weekly Relative humidity - Vadodara	117
6.9	Weekly Relative humidity - Junagadh	118
6.10	Weekly Relative humidity - Rajkot	118
6.11	Weekly bright sun shine hours - Dantiwada	119
6.12	Weekly bright sun shine hours - Anand	119
6.13	Weekly bright sun shine hours - Vadodara	120
6.14	Weekly bright sun shine hours - Junagadh	120

Fig.No.	Particul ars	Page No.
6.15	Weekly bright sun shine hours - Rajkot	121
6.16	Weekly wind velocity - Dantiwada	121
6.17	Weekly wind velocity - Anand	122
6.18	Weekly wind velocity ~ Vadodara	122
6.19	Weekly wind velocity - Junagadh	123
6.20	Weekly wind velocity - Rajkot	123
6.21	Weekly Evaporation - Dantiwada	124
6.22	Weekly Evaporation - Anand	124
6.23	Weekly Evaporation - Vadodara	125
6.24	Weekly Evaporation - Junagadh	125
6.25	Weekly Evaporation - Rajkot	126
6.26	Weekly average of temperatures	126
	for all stations under study	
6.28	Weekly average of relative humidity	127
	for all stations under study	
6.29	Weekly average of wind velocity	126
	for all stations under study	
6.27	Weekly average of Sunshine hours	127
	for all stations under study	
6.30	Weekly average Evaporation	128
	for all stations under study	
8.1	Average ETo for all stations and	151
	regional average	
8.2	Comparision of ETc for Mug at Dantiwada	1-60
8.3	Comparision of ETc for Maize at Anand	160

Fig.No.	Particulars	Page No
8.4	Comparision of ETc for Tobacco at Anand	161
8.5	Comparision of ETc for Tobacco at Anand	161
8.6	Comparision of ETc for Ground Nut at Anand	162
8.7	Comparision of ETc for Ground Nut at Anand	162
8.8	Comparision of ETc for Cotton at Anand	163
8.9	Comparision of ETc for Bajra at Rajkot	163
8.10	Comparision of ETc for Ground Nut at Rajkot	164
8.11	Comparision of ETc for Ground Nut at Rajkot	164
9.1	ETo by Penman method for five stations	171
9.2	ETo by Blaney-Criddle method for five	172
	stations	
9.3	ETo by Radiation method for five stations	173
9.4	ETo by Pan Evaporation method for five	174
	stations	
9.5	ETo by Hrgreaves method for five stations	175
9.6	ETo by Jensen-Haise method for five stations	176
9.7	ETo by Thornthwaite method for five stations	177
9.8	ETo by seven methods - Average of all	179
	stations	
9.9	ETo for Dantiwada by six methods	180
9.10	ETo for Anand by six methods	180
9.11	ETo for Vadodara by six methods	181
9.12	ETo for Rajkot by six methods	182
9.13	ETo for junagadh by six methods	183
9.14	ETo by six methods - Average of all stations	184

Fig.No.	Particulars .	Page No
9.15		
	equation with : ETo by different methods	& 187
	for different stations	
9.16	Comparision of ETo estimated by T -n	190
	equation with : ETo by different methods	& 191
	for different stations	
9.17	Comparision of ETo estimated by Pan-	192
	Evaporation equation with : ETo by	& 193
	different methods for different stations	
9.18	Comparision of ETo estimated by week base	195
	equation with : ETo by different stations	
9.19	Comparision of observed and calculated	196
	values of Evapotranspiration (ETc)	
	for Dantiwada	
9.20	Comparision of observed and calculated	196
	values of Evapotranspiration (ETc)	
	for Rajkot	
9.21	Comparision of observed and calculated	197
	values of Evapotranspiration (ETc)	
	for Anand	