

## TOPOGRAPHY AND AGRO CLIMATIC CHARACTERISTS

The land is totally plain. The climate is extremely hot and dry in summer and temperature touches 45 degree Celsius in May and June. It is hot and humid in rainy season while it is extremely cold in month December and January. Soil of the district Moga varies in texture. Five to ten percent area is under sandy soils, twenty percent area under Loamy sands, twenty five percent area is under Clay and approximately fifty percent area is under Sandy Clay soils. Block wise information about soil is given in table below:-

**Table-7: Information about soils in different blocks**

2.

Sr.No.	BLOCK	TEXTURE	SOIL REACTION
1.	Moga-I	Medium	Neutral
2.	Moga-II	Light to Medium Some places its heavy	Neutral and Alkaline in some places
3.	Bagha Purana	Medium	Neutral
4.	Nihal Singh Wala	Light	Neutral
5.	Kot-Ise-Khan	Light and Medium	Neutral and Alkaline in few places

## Climate

The climate of the district can be classified as tropical and dry sub humid. The normal annual rainfall is about 498 mm, which is spread over 24 rainy days. 78% of rainfall occurs during south-west monsoon. The month wise rain fall data of the district is given in the table below:-

**Table-8: Month wise and year wise Rainfall data of the district for the year 2000-2008 is as shown in the table below:-**

Name of Month	2000	2001	2002	2003	2004	2005	2006	2007	2008
January	23.5	7.4	-	10.0	23.0	34.3	1.1	-	5.6
February	13.0	-	1.8	41.0	2.4	34.7	-	51.4	1.2
March	10.0	4.1	2.0	-	-	13.8	15.9	30.9	-
April	-	8.4	-	-	7.4	6.3	-	-	5.8
May	5.2	12.1	15.6	-	12.1	1.0	4.1	-	38.4
June	9.6	97.3	13.8	8.8	8.9	5.2	8.4	72.8	129.2
July	66.4	76.3	36.2	43.9	10.0	89.1	26.4	61.9	40.0
August	31.2	-	32.5	36.5	32.2	61.0	147.4	77.9	190.4
September	2.4	3.0	84.8	5.1	16.1	62.0	90.5	16.3	10.5
October	-	4.8	-	-	8.4	-	6.2	-	10.4
November	-	-	-	2.2	-	-	4.1	-	-
December	1.2	2.6	2.1	-	9.1	-	4.9	9.9	-
Total	162.5	216.0	188.8	147.5	129.6	307.4	309.0	321.0	431.5

The land holding pattern of the district is presented in the table below:-

**Table-9: No. of operational holdings and their area in Distt. Moga**

<b>CATEGORY</b>	<b>NUMBERS</b>	<b>AREA (Ha.)</b>
Below 1 Hec.	6270	3976
Small 1-2 Hec.	7916	11314
Semi-Medium 2-4 Hec.	18651	49509
Medium 4-10 Hec.	17876	100179
Large Above 10 Hec.	2629	33227
<b>TOTAL</b>	<b>53342</b>	<b>1,98,205</b>

The total No. of farming families in the district are 53342. The average size of the holding in the district is 3.7 hectare. With the increase in population, the size of the holding has been affected and more than 25 percent of the farmers in the below 1 hectare and Small 1-2 hectare categories.

**Table-10: Land use statistics of Distt. Moga**

<b>Sr.No.</b>	<b>PARTICULARS</b>	<b>AREA (Ha.)</b>
1.	Geographical Area	2,23,410
2.	Forests	2575
3.	Barren Land	-
4.	Non-Agriculture Use	22630
5.	Current Fallow	3229
6.	Net Cultivated area	1,94,976
7.	Area Sown More Than Once	1,95,076
8.	Gross Cropped Area	3,90,678
9.	Area Irrigated By Canals	4748
10.	Area Irrigated By T-Wells	1,04,321
11.	Area Irrigated By Canal/T-Wells	85,907
12.	Net Irrigated Area	1,94,976
13.	Un Irrigated Area	Nil