

### *Introduction*

The statistical information that appeared in this chapter includes “geographical characteristics and administrative divisions”, and “climate”.

#### *1. Geographical characteristics and administrative divisions*

Iran comprises a land area of over 1.6 million square kilometers. It lies down on the southern half of the northern temperate zone, between latitudes 25° 04' and 39° 46' north, and longitudes 44° 02' and 63° 19' east. The land's average height is over 1200 meters above sea level. The lowest place, located in Chaleh-ye-Loot, is only 56 meters high, while the highest point, Damavand peak in Alborz Mountains, rises as high as 5610 meters. The land height at the southern coastal strip of the Caspian Sea is 28 meters lower than the open seas.

Iran is bounded by Turkmenistan, the Caspian Sea, Republic of Azerbaijan, and Armenia on the north, Afghanistan and Pakistan on the east, Oman Sea and the Persian Gulf on the south, and Iraq and Turkey on the west

Administratively, the country is divided into Ostans, Ostans into Shahrestans, and Shahrestans into some Shahrs and Dehestans.

Highlands of Iran can be divided into four mountain ranges: northern, western, southern and central and eastern ranges. The northern mountain ranges have extended from Ararat Mountain in Turkey to Hindu Kush Mountain in Afghanistan, including Alamdar, Sahand, Sabalan, Talesh, Qafan Kuh mountains in Azarbaijan, Albourz mountain ranges at the north

of Tehran and south of Mazandaran and Gilan Ostans, Ala Dagh, Binalud, Hezar Masjed and Qarah Dagh in Khorasan Ostan on the east of Iran and joins Hindu Kush mountains in Afghanistan.

The mountain ranges in the west, which have extended from Ararat mountain to the north west and the south east of the country, cover Sari Dash, Chehel Cheshmeh, Panjeh Ali, Alvand, Bakhtiyari mountains, Pish Kuh, Posht Kuh, Oshtoran Kuh and Zard Kuh which totally form Zagros ranges. The highest peak of this range is “Dena” with a 4409 m height.

The southern mountain range stretches from Khouzestan Ostan to Sistan & Baluchestan Ostan and joins Soleyman Mountains in Pakistan. The mountain range includes Sepidar, Meymand, Bashagard and Bam Posht Mountains.

Central and eastern mountains mainly comprise Karkas, Shir Kuh, Kuh Banan, Jebal Barez, Hezar, Bazman and Taftan mountains, the highest of which is Hezar Mountain with a 4465 m height.

The largest Iranian islands that are mainly located at Persian Gulf and Hormuz Strait, are Qeshm, Kish, Lavan, Larak Shahri, Hormuz, Hengam Jadid (new Hengam), Kabudan, Ashk (Orumiyeh Lake), Faroor Bozorg (Greater Faroor), Hendurabi, Khark, Minou, Siri, Khan, Abu Mosa, Espir (Orumiyeh Lake), Tonb Bozorg (Greater Tonb), Morghi, Kharku, Arezoo (Orumiyeh Lake), Faroor Kuchak (Small/Lesser Faroor) and Tonb Kuchak (Small/Lesser Tonb).

The Caspian Sea (the world's largest lake) lies on the north of Iran and connects Iran to European countries through Russian waterways. The water of the most of the Iranian lakes is salty. The major internal lakes are: Orumiyeh, Namak, Hamoun Jazmourian, Hamoun-e-Saberi,

Bakhtegan, Toshak, Hamoun-e-Pouzak, Maharlu, Hamoun-e-Hirmand, Talab-e-Anzali (Anzali lagoon), Howz-e-Sultan, Parishan and Zarivar of Marivan.

## 2. Climate

Due to its vast area, abundant mountains, desert lands and being adjacent to two large seas at the north and south as well as its closeness to Europe, Mediterranean Sea, African large Sahara desert, Indian Ocean, Asian internal highlands and large cold areas, Iran enjoys a very diverse climate. The effect of distance from the sea, namely closeness and remoteness from the sea, can be easily perceived by comparing the large amount of rainfall and rich vegetation and highly populated areas around the Caspian Sea with the uninhabited arid deserts in the centre of Iran. The continuation of the mountain ranges, their location opposite or parallel to the winds direction and air flows are among the factors, which always affect climate change. There is a significant difference among the slopes facing or backing onto humid winds in terms of rainfall amount and vegetation.

The country generally features three climatic zones:

**1. Arid and semi-arid climate:** Vast regions of the interior and far south of Iran enjoy this climate which are characterized by long, warm and dry periods, some years lasting over 7 months. The annual precipitation in such regions varies from 30

to 250 mm.

**2. Mountainous climate:** which are sub-divided into cold and moderate mountainous climate.

2.1. Cold mountainous climate: about 40000 sq km of the total country consists of major highlands, including Alborz and Zagross mountain ranges, as well as Sahand and Sabalan high peaks. The annual precipitation in these regions exceeds 500 mm.

2.2. Moderate mountainous climate: some 300000 sq km of the country enjoys a moderate mountainous climate, where the annual precipitation varies from 250 to 600 mm.

**3. Caspian climate:** which is a narrow strip with a limited extension, trapped between the Caspian Sea and Alborz mountains range with as much as 600 to 2000 mm precipitation per year..

Measurement of climatic characteristics, which dates back to the year 1320, is currently performed by the National Meteorological Organization at its numerous synoptic stations scattered around the country. The data in this chapter, however, are only from those located in Ostan (provincial) centres. They include temperature, precipitation, and relative humidity, the number of frosty days, hours of bright sunshine, and speed of the wind.

### Notes:

1. Some capitals of Ostans have several synoptic stations and the data appeared here are from those located at the airports of Ostan's capitals.

2. Central basins, Hamun and Sarakhs, were renamed Central Plateau, Eastern Border, and Qareh Qum basins, respectively in the year 1383.

The Statistics in this Chapter have been gathered from the Armed Forces Geographical Organization, Ministry of the Interior, I.R. of Iran Meteorological Organization and Iran Water Resource Management Company. It is necessary to mention that the provided statistics were produced by

register-based method.

### ***Definitions and concepts***

***Shahrestan (subprovince):*** an administrative division with a certain geographical boundary, formed from joining of a few neighboring Bakhshes (county) which enjoy the homogeneous natural, social, economic, political and cultural conditions.

***Bakhsh (county):*** an administrative division with a specific geographical boundary, including a number of neighboring Dehestans and their adjacent fields, places, Roostas (hamlets), and possibly Shahrs (cities), which are similar in natural, social, cultural, economic and political aspects.

***Shahr (city/town):*** an area with a legal boundary, located within the geographical boundary of a certain Bakhsh and in terms of constructional context, employment and other factors, having the distinctive features of a city.

***Dehestan (rural agglomeration):*** the smallest unit among administrative divisions with a specific geographical boundary, comprised of a number of neighboring Roostas and their adjacent places and fields, homogeneous in environment, economic and social conditions that allow for providing public services and planning within a single system and network.

***Synoptic stations (simultaneous meteorological reporting stations):*** These are stations at which, various climatic features including dry and humid temperatures, amount and type of cloud, amount of precipitation, type of climatic phenomenon, direction and speed of wind, amount of evaporation, air pressure, hours of bright sunshine, changes in pressure, amount of solar radiation, etc. are

according to certain instructions at certain hours measured and communicated to meteorological centers across the globe by devices like SSB, telephone or telex after being registered.

***Absolute minimum:*** the lowest temperature during a certain period (24 hours, one month, one year, or a few years).

***Absolute maximum:*** the highest temperature during a certain period (24 hours, one month, one year, or a few years).

***Relative humidity:*** the amount of humid air in a volume unit of air.

***Sunshine hours:*** According to the World Meteorological Organization (WMO), the sunshine hour refers to the sunshine as the time during which the direct solar radiation exceeds the level of 120 W/m<sup>2</sup>.

***The average height of precipitation:*** is the weighted mean of an area. By dividing the area into several polygons and considering the precipitation in each polygon, the average height of precipitation is calculated.

***Water basin:*** is a geographical area in which overland flows from, and drains downhill into a body of water, such as ocean, sea, or flat. If the concentration point is located inside the basin, the basin is a closed one (e.g. Orumiyeh Lake), but if the point is located at the end of the basin so that the flow can leave there, then there is an open basin. Every given point in a river is considered the concentration point for the basin just above it.

***Aquatic year:*** from the first day of Mehr to the end of Shahrivar of the next year.

***Coefficient of overland flow:*** the ratio of the volume of water flowed in a given hydrometric

station to the volume of the precipitation of the basin stretching to the station.

**Hydrometric stations:** stations in which parameters of debit (discharge), sediment, temperature, physical properties of water and features of ice cover and chemical properties of rivers, lake and dams reservoir are observed and measured.

**Volume of overland flow:** To estimate the volume of overland flow of each of the country's main basins, a total of 42 rivers have been selected to indicate and represent the overland flow whose annual total volume exceeds 60 percent of the country's grand total. To reach the volume of any individual flow, a proper coefficient is applied to the total volume.

#### *Selected information*

The total length of the Iran's borderlines is 8640 kilometers out of which the longest borderline is for that of south waters with 2106 kilometers and the shortest one goes to Iran-Armenia which equals 45 kilometers.

In the year 1397, Sistan & Baluchestan, Kerman, South Khorasan, Fars, Khorasan-e-Razavi and Esfahan were among the largest Ostans in the country, respectively, and each of them has an area of more than 100000 Km<sup>2</sup>. Tehran Ostan with an area of about 13.6 Km<sup>2</sup> ranks the 29<sup>th</sup> among the nation's Ostans.

In the year 1397, Iran was divided into 31 Ostans (provinces), 435 Shahrestans (sub-provinces), 1079 Bakhshes (counties), 1331 Shahr (cities) and 2610

Dehestans (rural agglomerations).

In the year 1397, the average maximum and minimum temperatures in Ostans' centers belong to Bandar Abbas with 27.4°C and Ardebil with 11.3°C, respectively. Furthermore, the absolute maximum belongs to Ahvaz with 52.4°C and the absolute minimum goes to Shar-e-Kord with -20.3°C. Also in the mentioned year, the highest annual precipitation of the country belongs to Rasht and Yasuj, which amounted to 1083.5 and 1054.7 mm, respectively, and Zahedan and Yazd with 52.2 and 70.7 mm respectively had the lowest annual precipitation amongst all Ostans' capitals. In the year 1397, the maximum frosty days belong to Shahr-e-Kord with 114 days, Hamedan with 98 days, and Zanjan with 95 days; and Bandar Abbas, Bushehr, and Ahvaz and Rasht have not experienced any frosty day.

The volume of precipitation in national main basins during the aquatic year of 1396-97 was approximately 277.640 billion m<sup>3</sup> out of which the share of each basin is as follows: the Caspian Sea, 69.870 billion m<sup>3</sup>, the Persian Gulf and Oman Sea, 89.950 billion m<sup>3</sup>, the Lake of Orumiyeh: 21.200 billion m<sup>3</sup>, Central Plateau, 86.150 billion m<sup>3</sup>, Eastern Border, 4.170 billion m<sup>3</sup> & Qareh Qum, 6.300 billion m<sup>3</sup>.

It is also noteworthy that the ratio of the area of main water basins to the total country area is as follows: the Caspian Sea 11.00%, the Persian Gulf and Oman Sea: 26 %, Lake of Orumiyeh: 3.00%, Central Plateau: 51.00%, Eastern Border: 6 % and Qareh Qum:3 %.

**1.1. LENGTH OF IRANIAN BORDERLINES, THE YEAR 1397 (km)**

Description	Borderline length
<i>Total</i> .....	<b>8640.0</b>
Iran-Iraq borderline .....	1608.0
Iran- Turkey borderline .....	566.1
Iran- Turkmenistan borderline .....	1190.0
Iran- Azerbaijan borderline .....	756.8
Iran- Armenia border .....	45.0
Northern coastline .....	524.0
Iran- Afghanistan borderline .....	919.1
Iran- Pakistan borderline .....	924.8
Southern coastline .....	2106.0

*Source: Armed Forces Geographical Organization.*

**1.2. LONGITUDE AND LATITUDE OF OSTANS, THE YEAR 1397**

Ostan	Longitude				Latitude			
	Lower limit		Upper limit		Lower limit		Upper limit	
	Minute	Degree	Minute	Degree	Minute	Degree	Minute	Degree
<b>Total country .....</b>	<b>2</b>	<b>44</b>	<b>19</b>	<b>63</b>	<b>4</b>	<b>25</b>	<b>46</b>	<b>39</b>
East Azarbayejan.....	5	45	21	48	45	36	26	39
West Azarbayejan .....	2	44	24	47	58	35	46	39
Ardebil .....	18	47	55	48	6	37	42	39
Esfahan.....	38	49	30	55	42	30	30	34
Alborz .....	10	50	28	51	33	35	21	36
Ilam .....	41	45	3	48	3	32	2	34
Bushehr .....	6	50	56	52	18	27	17	30
Tehran .....	21	50	9	53	52	34	8	36
Chaharmahal & Bakhtiyari ..	30	49	26	51	9	31	49	32
South Khorasan .....	23	55	56	60	31	30	6	35
Khorasan-e-Razavi.....	14	56	16	61	51	33	42	37
North Khorasan .....	54	55	25	58	35	36	17	38
Khuzestan.....	40	47	33	50	53	29	0	33
Zanjan .....	10	47	26	49	33	35	15	37
Semnan.....	50	51	3	57	14	34	20	37
Sistan & Baluchestan .....	50	58	19	63	4	25	29	31
Fars.....	36	50	35	55	3	27	40	31
Qazvin .....	44	48	51	50	24	35	49	36
Qom.....	5	50	58	51	9	34	11	35
Kordestan .....	33	45	15	48	44	34	28	36
Kerman.....	20	54	34	59	29	26	58	31
Kermanshah .....	24	45	6	48	41	33	17	35
Kohgiluyeh & Boyerahmad .	53	49	53	51	56	29	29	31
Golestan .....	51	53	19	56	30	36	7	38
Gilan.....	34	48	36	50	34	36	27	38
Lorestan.....	50	46	1	50	39	32	23	34
Mazandaran.....	21	50	8	54	46	35	58	36
Markazi .....	57	48	3	51	23	33	34	35
Hormozgan.....	44	52	14	59	25	25	53	28
Hamedan .....	48	47	28	49	0	34	44	35
Yazd .....	48	52	39	56	36	29	22	33

Source: Armed Forces Geographical Organization

### 1.3. NUMBER OF SHAHRESTANS, BAKHSHES, SHAHRS AND DEHESTANS ACCORDING TO THE ADMINISTRATIVE DIVISIONS

Year	Number of Shahrestans	Number of Bakhshes	Number of Shahrs	Number of Dehestans
1380.....	299	794	889	2305
1385.....	336	889	1015	2400
1390.....	400	994	1166	2507
1393.....	428	1058	1243	2589
1394.....	430	1059	1243	2590
1395 <sup>(1)</sup> .....	429	1058	1246	2589
1396.....	429	1058	1287	2589
<b>1397.....</b>	<b>435</b>	<b>1079</b>	<b>1331</b>	<b>2610</b>

1. The decrease in the number of Shahrestans, Bakhshes, and Dehestans is due to Bastam in Semnan Ostan excluded from the list of Shahrestans.

Source: Ministry of the Interior.

#### 1.4. GENERAL CHARACTERISTICS OF OSTANS ACCORDING TO THE ADMINISTRATIVE DIVISIONS AT THE END OF THE YEAR 1397

Ostan	Capital of Ostan	Area <sup>(1)</sup> (sq km)	Number of Shahrestans	Number of Bakhshes	Number of Shahrs	Number of Dehestans
<b>Total country</b> .....	××	<b>1635518.09</b>	<b>435</b>	<b>1079</b>	<b>1331</b>	<b>2610</b>
East Azarbayejan.....	Tabriz	45468.86	21	46	64	144
West Azarbayejan .....	Orumiyeh	42215.69	17	41	47	114
Ardebil .....	Ardebil	17875.54	11	30	29	73
Esfahan.....	Esfahan	107116.03	24	52	110	129
Alborz .....	Karaj	5182.03	6	13	17	29
Ilam .....	Ilam	20164.11	10	27	27	50
Bushehr .....	Bushehr	22911.22	10	26	40	50
Tehran .....	Tehran	13538.43	16	34	45	71
Chaharmahal & Bakhtiyari .....	Shahr-e-Kord	16321.14	10	26	43	51
South Khorasan .....	Birjand	151016.79	11	25	30	61
Khorasan-e-Razavi.....	Mashhad	119062.96	29	71	77	165
North Khorasan .....	Bojnurd	28385.51	8	19	24	45
Khuzestan.....	Ahvaz	64426.31	27	67	84	142
Zanjan .....	Zanjan	21733.12	8	18	21	49
Semnan.....	Semnan	97750.92	8	15	20	31
Sistan & Baluchestan .....	Zahedan	182311.61	20	50	47	115
Fars.....	Shiraz	122199.36	29	86	110	206
Qazvin .....	Qazvin	15594.92	6	19	25	46
Qom.....	Qom	11454.75	1	5	6	9
Kordestan .....	Sanandaj	29198.88	10	31	32	86
Kerman.....	Kerman	181152.28	23	60	77	154
Kermanshah .....	Kermanshah	25186.92	14	32	34	87
Kohgiluyeh & Boyerahmad .....	Yasuj	15505.28	8	19	18	45
Golestan .....	Gorgan	20411.88	14	27	33	60
Gilan.....	Rasht	13988.14	16	43	52	109
Lorestan.....	Khorramabad	28090.74	11	31	28	87
Mazandaran.....	Sari	23770.98	22	57	61	131
Markazi .....	Arak	29196.17	12	23	34	66
Hormozgan.....	BandarAbbas	71091.44	13	39	45	85
Hamedan .....	Hamedan	19372.21	10	26	31	75
Yazd .....	Yazd	73823.87	10	21	20	45

1. Only Land Area.

Source: Ministry of the Interior.



**1.1. NATIONAL ADMINISTRATIVE DIVISIONS, THE YEAR 1397**



For data see Table 1.4.

### 1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
<b>Total country</b> .....	<b>1079</b>	<b>1331</b>	<b>2610</b>
<b>EastAzarbayejan</b> .....	<b>46</b>	<b>64</b>	<b>144</b>
Azarshahr .....	3	4	7
Osku .....	2	3	5
Ahar .....	2	1	7
Bostanabad .....	2	2	9
Bonab .....	1	2	3
Tabriz .....	2	4	6
Jolfa .....	2	3	5
Charoimaq .....	2	1	6
Khoda Afarien .....	3	1	7
Sarab .....	2	4	9
Shabestar .....	2	9	8
Ajabshir .....	2	2	4
Kaleibar .....	2	2	7
Maragheh .....	2	2	6
Marand .....	2	5	9
Malekan .....	2	3	5
Miyaneh .....	4	5	17
Varzaqan .....	2	2	7
Haris .....	2	6	6
Hashtrud .....	2	2	7
Hurand .....	2	1	4
<b>West Azarbayejan</b> .....	<b>41</b>	<b>47</b>	<b>114</b>
Orumiyeh .....	5	5	20
Oshnaviyeh .....	2	2	4
Bukan .....	2	2	7
Poldasht .....	2	2	4
Piranshahr .....	2	2	5
Takab .....	2	2	6
Chaldoran .....	2	2	5
Chaypareh.....	2	2	4
Khoy .....	5	6	12
Sardasht .....	2	4	6
Salmas .....	2	2	7
Shahindezh .....	2	3	5
Shout .....	2	3	4
Maku .....	2	2	5
Mahabad .....	2	3	5
Miandoab .....	3	3	11
Naqadeh.....	2	2	4

### 1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
<b>Ardebil.....</b>	<b>30</b>	<b>29</b>	<b>73</b>
Ardebil .....	3	3	10
Aslanduz.....	2	1	4
Bilehsavar .....	2	2	4
Parsabad .....	3	3	6
Khalkhal .....	3	3	8
Sareyn .....	2	2	4
Kowsar .....	2	1	4
Garmi .....	3	3	9
Meshkinshahr .....	5	6	12
Namin .....	3	3	7
Nayer .....	2	2	5
<b>Esfahan .....</b>	<b>52</b>	<b>110</b>	<b>129</b>
Aran & Bidgol.....	2	4	3
Ardestan .....	3	3	7
Esfahan .....	6	14	19
Borkhar .....	2	7	4
Buin and Miyandasht .....	2	2	5
Tiran & Karvan .....	2	3	4
Chadegan .....	2	2	4
Khomeinishahr .....	1	4	3
Khansar .....	1	1	3
Khour& Biyabanak .....	1	3	3
Dehaghan .....	1	2	3
Semirom .....	4	6	8
Shahin Shahr& Meymeh .....	2	6	4
Shahreza .....	1	2	4
Feridan .....	2	2	5
Fereydunshahr .....	1	2	5
Falavarjan.....	3	8	6
Kashan.....	4	7	9
Golpayegan .....	1	3	3
Lenjan .....	3	9	7
Mobarakeh .....	2	7	5
Naeen .....	2	3	5
Najafabad .....	2	6	5
Natanz .....	2	4	5
<b>Alborz.....</b>	<b>13</b>	<b>17</b>	<b>29</b>
Eshtehard.....	2	1	4
Savojbalagh.....	3	5	6
Taleghan.....	2	1	4
Fardis.....	2	2	4
Karaj.....	2	6	6
Nazarabad.....	2	2	5

**1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
<b><i>Ilam</i></b> .....	<b>27</b>	<b>27</b>	<b>50</b>
Abdanan .....	3	3	6
Ilam .....	3	3	6
Ivan .....	2	2	4
Badreh .....	2	2	4
Chardavel .....	4	5	7
Darrehshahr .....	2	2	4
Dehloran.....	5	4	9
Sirvan .....	2	1	4
Malekshahi.....	2	3	4
Mehran .....	2	2	2
<b><i>Bushehr</i></b> .....	<b>26</b>	<b>40</b>	<b>50</b>
Bushehr .....	2	4	2
Tangestan .....	2	3	4
Jam .....	2	4	5
Dashtestan .....	6	9	12
Dashti .....	3	4	7
Dayyer .....	3	5	6
Deylam .....	2	2	4
Asalouye.....	2	4	4
Kangan .....	2	3	4
Genaveh .....	2	2	2
<b><i>Tehran</i></b> .....	<b>34</b>	<b>45</b>	<b>71</b>
Eslamshahr .....	3	2	6
Baharestan.....	2	3	4
Pakdasht .....	2	3	6
Pardis.....	2	2	4
Pishva.....	2	1	4
Tehran .....	3	1	4
Damavand .....	2	5	5
Robotkarim.....	1	3	3
Rey .....	5	6	9
Shemiranat .....	2	4	3
Shahriar .....	2	7	6
Firuzkuh .....	2	2	5
Qods .....	1	1	2
Qarchak.....	1	1	2
Malard .....	2	2	4
Varamin .....	2	2	4
<b><i>Chaharmahal &amp; Bakhtiari</i></b> .....	<b>26</b>	<b>43</b>	<b>51</b>
Ardal .....	2	4	4
Borujen .....	3	6	5
Bon.....	2	3	4
Khan Mirza .....	2	1	4
Saman.....	2	2	4
Shahr-e-Kord .....	3	9	6
Farsan .....	3	7	5
Kuhrang .....	3	3	7
Keyar.....	2	4	4
Lordegan .....	4	4	8

**1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
<b><i>South Khorasan.....</i></b>	<b>25</b>	<b>30</b>	<b>61</b>
Boshroye .....	2	2	4
Birjand.....	1	1	6
Khosaf .....	2	2	5
Darmiyān .....	3	4	6
Zeerkooch .....	3	3	6
Sarayan .....	2	3	4
Sarbisheh.....	3	3	6
Tabas .....	3	3	8
Ferdows .....	1	2	3
Qayenat .....	3	5	8
Nahbandan .....	2	2	5
<b><i>Khorasan-e-Razavi .....</i></b>	<b>71</b>	<b>77</b>	<b>165</b>
Bakharz .....	2	1	4
Bajestan.....	2	2	4
Bardeskan .....	3	3	6
Binalood.....	2	2	4
Taybad .....	2	3	4
Torbat-e-Jam .....	4	5	9
Torbat-e-Heydariyeh .....	4	4	8
Joghatay .....	2	2	4
Jovin.....	2	2	4
Chenaran .....	2	3	5
Khalil Abad .....	2	2	4
Khaf .....	4	5	8
Khooshab .....	2	2	5
Davarzan .....	2	1	4
Dargaz .....	4	4	7
Rashtkhar .....	2	2	4
Zaveh.....	2	1	4
Sabzevar .....	3	3	11
Sarakhs .....	2	2	6
Saleh Abbad.....	2	1	5
Fariman .....	2	4	5
Firooze .....	2	2	4
Quchan .....	2	2	5
Kashmar .....	2	2	5
Kalat .....	2	2	4
Gonabad .....	2	3	4
Mashhad .....	3	3	11
Mah-Velat .....	2	2	4
Neyshabur .....	4	7	13
<b><i>North Khorasan .....</i></b>	<b>19</b>	<b>24</b>	<b>45</b>
Esfarayen .....	2	2	7
Bojnurd .....	2	3	5
Jajarm .....	3	3	5
Raz & Jargalan.....	3	3	6
Shirvan .....	3	4	9

### 1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
Faruj .....	2	2	5
Garmeh.....	1	3	2
Maneh and Samalqan .....	3	4	6
<b>Khuzestan .....</b>	<b>67</b>	<b>84</b>	<b>142</b>
Abadan .....	2	3	6
Aghajaree .....	2	2	2
Omidiyeh .....	2	2	3
Endika .....	3	3	6
Andimeshk .....	2	5	4
Ahvaz .....	3	2	6
Izeh.....	3	2	10
Baghmalek ..	3	4	8
Bavi .....	2	3	4
Bandar-e-Mahshahr.....	2	3	1
Behbahan.....	3	4	6
Hamidiyeh.....	2	1	4
Khorramshahr .....	2	3	4
Dezful.....	4	11	11
Dasht-e-Azadegan.....	2	4	5
Ramshir .....	2	2	4
Ramhormoz.....	4	3	8
Shadegan .....	3	3	8
Shush.....	3	5	7
Shushtar.....	3	4	6
Karoun.....	2	1	4
Gotvand .....	2	5	4
Lali .....	2	1	4
Masjed Soleyman.....	3	3	6
Haftgol .....	2	1	3
Hendiyan.....	2	2	4
Hovayzeh .....	2	2	4
<b>Zanjan .....</b>	<b>18</b>	<b>21</b>	<b>49</b>
Abhar.....	1	3	5
Ijerud .....	2	2	4
Khodabandeh .....	4	7	10
Khorramdarreh .....	1	1	2
Zanjan .....	3	3	13
Soltaniyeh.....	2	1	4
Tarom .....	3	2	6
Mahneshan .....	2	2	5
<b>Semnan.....</b>	<b>15</b>	<b>20</b>	<b>31</b>
Aradan.....	2	2	4
Damghan .....	2	4	6
Sorkhe .....	1	1	2
Semnan.....	1	1	1
Shahrud .....	3	6	7

**1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)**

Ostan and Shahrestan	Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs
Garmsar.....	2	2	3
Mehdishahr.....	2	3	3
Mayamee.....	2	1	5
<i>Sistan &amp; Baluchestan.....</i>	<i>50</i>	<i>47</i>	<i>115</i>
Iranshahr.....	2	2	5
Bampour.....	2	2	4
Chabahar .....	3	3	6
Khash .....	3	3	11
Delgan .....	2	2	5
Zabol .....	1	2	1
Zahedan .....	3	3	6
Zahak .....	2	1	4
Saravan .....	4	5	9
Sarbaz .....	4	4	11
Sibsavarani.....	2	2	4
Fonuch .....	2	2	4
Qaser-e Qand.....	3	2	6
Konarak .....	2	2	4
Mehrestan.....	2	2	4
Mirjave.....	3	2	7
Neekshahr.....	4	3	11
Neemrooz.....	2	1	4
Hamoon.....	2	2	4
Hirmand.....	2	2	5
<i>Fars .....</i>	<i>86</i>	<i>110</i>	<i>206</i>
Abadeh .....	1	5	4
Arsanjan .....	1	1	3
Estahban .....	2	3	3
Eqlid .....	3	4	9
Bavanat .....	3	4	7
Pasargad .....	2	2	4
Jahrom .....	4	5	12
Kharameh.....	2	2	5
Khorrumbid .....	2	2	3
Khonj .....	2	2	4
Darab .....	5	5	12
Rostam.....	2	2	4
Zarrindasht .....	2	3	5
Sepidan .....	3	3	8
Sarvestan.....	2	2	4
Shiraz .....	3	6	12
Farashband .....	2	3	4
Fasa .....	4	6	8
Firuzabad .....	2	2	5
Qirokarzin .....	2	5	5
Kazerun .....	6	6	14
Kavar.....	2	2	4
Gerash.....	2	2	4

### 1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
Larestan .....	6	9	13
Lamerd .....	4	5	8
Marvdasht .....	5	6	15
Mamasani .....	4	3	10
Mohr .....	4	6	8
Neyriz .....	4	4	9
<b>Qazvin.....</b>	<b>19</b>	<b>25</b>	<b>46</b>
Abyek.....	2	2	5
Avaj.....	2	2	5
Alborz .....	2	4	4
Boyinzahra.....	4	5	9
Takestan .....	4	5	9
Qazvin .....	5	7	14
<b>Qom.....</b>	<b>5</b>	<b>6</b>	<b>9</b>
Qom .....	5	6	9
<b>Kordestan.....</b>	<b>31</b>	<b>32</b>	<b>86</b>
Baneh .....	4	4	8
Bijar .....	3	5	11
Dehgalan .....	2	2	5
Divandarreh .....	3	3	8
Sarvabad .....	2	2	8
Saqquez .....	4	3	11
Sanandaj .....	4	3	12
Qorveh .....	4	4	10
Kamyaran .....	2	2	7
Marivan .....	3	4	6
<b>Kerman .....</b>	<b>60</b>	<b>77</b>	<b>154</b>
Arzooeyeh .....	2	1	5
Anar.....	1	2	2
Baft.....	2	2	6
Bardsir .....	4	5	8
Bam .....	3	2	6
Jiroft .....	5	5	15
Rabar .....	2	2	4
Ravar .....	2	2	3
Rafsanjan .....	4	6	14
Rudbar-e-Jonub.....	2	2	4
Reegan.....	2	2	4
Zarand .....	2	5	11
Sirjan .....	5	7	10
Shahr-e-Babak .....	2	5	9
Anbarabad .....	2	3	7
Faryab .....	2	1	4
Fahraj .....	2	1	4
Ghaleh-Ganj .....	2	3	5
Kerman .....	6	13	16



**1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
Kohbonan .....	2	2	3
Kahnuj .....	2	2	5
Manujan .....	2	2	5
Narmashir .....	2	2	4
<b><i>Kermanshah</i></b> .....	<b>32</b>	<b>34</b>	<b>87</b>
Eslamabad-E-Gharb .....	2	2	7
Paveh .....	3	5	5
Salas-e-Babajani .....	3	2	5
Javanrud .....	2	2	4
Dalahu .....	2	3	5
Ravansar .....	2	2	6
Sar-e-pol-e-Zahab .....	2	1	8
Sonqor .....	2	2	8
Sahneh .....	2	2	7
Qasr-e-Shirin .....	2	2	4
Kermanshah .....	5	5	13
Kangavar .....	1	2	5
Gilan-e-Gharb .....	2	2	6
Harsin .....	2	2	4
<b><i>Kohgiluyeh &amp; Boyerahmad</i></b> .....	<b>19</b>	<b>18</b>	<b>45</b>
Basht .....	2	2	4
Bahmaee .....	2	1	4
Boyerahmad .....	4	5	11
Cheram .....	2	2	4
Dena .....	2	2	4
Kohgiluyeh .....	4	4	10
Gachsaran .....	1	1	4
Lande .....	2	1	4
<b><i>Golestan</i></b> .....	<b>27</b>	<b>33</b>	<b>60</b>
Azadshahr .....	2	3	4
Aq Qala .....	2	2	5
Bandar Gaz .....	2	2	4
Torkaman .....	2	1	4
Ramyan .....	2	4	4
Aliabad .....	2	4	4
Kordkuy .....	1	1	3
Kalaleh .....	2	2	5
Galikesh .....	2	2	4
Gorgan .....	2	4	5
Gomishan .....	2	2	4
Gonbad-e-Kavus .....	2	2	6
Marave-Tapeh .....	2	2	4
Minudasht .....	2	2	4
<b><i>Gilan</i></b> .....	<b>43</b>	<b>52</b>	<b>109</b>
Astara .....	2	2	4
Astane-ye-Ashrafiyeh .....	2	2	6

**1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
Amlash .....	2	2	5
Bandar Anzali .....	1	1	2
Rasht .....	6	7	18
Rezvanshahr .....	2	2	4
Rudbar .....	4	7	10
Rudsar .....	4	5	10
Siahkal .....	2	2	5
Shaft .....	2	2	4
Sumaehsara .....	3	3	7
Tavalesh .....	4	5	10
Fuman .....	2	3	6
Lahijan .....	2	2	7
Langrud .....	3	5	7
Masal .....	2	2	4
<b>Lorestan.....</b>	<b>31</b>	<b>28</b>	<b>87</b>
Azna .....	2	2	4
Aligudarz .....	5	4	12
Borujerd .....	2	3	7
Poldokhtar .....	2	2	7
Khorramabad .....	4	4	17
Delfan .....	3	2	10
Dorud .....	2	2	5
Doreh .....	3	2	6
Rumeshkan .....	2	1	4
Selseleh .....	2	2	6
Kuhdasht .....	4	4	9
<b>Mazandaran.....</b>	<b>57</b>	<b>61</b>	<b>131</b>
Amol .....	5	6	11
Babol .....	6	7	13
Babolsar .....	3	3	6
Behshahr .....	2	3	5
Tonkabon .....	3	4	7
Juybar .....	2	2	4
Chalus .....	2	3	4
Ramsar .....	2	2	4
Sari .....	6	5	15
Savadkuh .....	2	3	4
Savadkuh-e Shomali .....	2	1	4
Seemorgh .....	2	1	4
Abbasabad .....	3	3	5
Ferydonkenar .....	2	1	4
Qaemshahr .....	1	2	5
Kelardasht.....	1	1	2
Galugah .....	2	1	4
Mahmoudabad .....	2	2	5
Miandorood .....	2	2	5
Neka .....	2	1	5
Nur .....	3	5	9
Noshahr .....	2	3	6

### 1.5. BAKHSHES, SHAHRS AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1397 (continued)

Ostan and Shahrestan	Number of Bakhshes	Number of Shahrs	Number of Dehestans
<b>Markazi</b> .....	<b>23</b>	<b>34</b>	<b>66</b>
Ashtian .....	1	1	3
Arak .....	3	4	11
Tafresh .....	1	1	4
Khomein .....	2	2	7
Khondab .....	2	2	5
Delijan .....	1	2	4
Zarandiyeh .....	2	5	6
Saveh .....	2	4	7
Shazand .....	4	6	9
Farahan .....	2	3	4
Komeijan .....	2	2	4
Mahallat .....	1	2	2
<b>Hormozgan</b> .....	<b>39</b>	<b>45</b>	<b>85</b>
Abumusa .....	2	1	2
Bastak .....	3	5	7
Bashagerd .....	3	2	6
Bandar Abbas .....	5	5	11
Bandar Lengeh .....	4	5	8
Parsiyan .....	2	3	4
Jask .....	2	2	5
Hajiabad .....	3	3	6
Khamir .....	2	3	4
Rudan .....	4	4	10
Sireek.....	2	3	4
Qeshm .....	3	4	7
Minab .....	4	5	11
<b>Hamedan</b> .....	<b>26</b>	<b>31</b>	<b>75</b>
Asadabad .....	2	2	6
Bahar .....	3	4	6
Tuysarkan .....	2	3	7
Dargazin.....	2	2	4
Razan .....	2	2	5
Famenin .....	2	1	4
Kabudarahang .....	3	3	10
Malayer .....	4	6	15
Nahavand .....	4	4	9
Hamedan .....	2	4	9
<b>Yazd</b> .....	<b>21</b>	<b>20</b>	<b>45</b>
Abarkuh .....	2	2	4
Ardakan .....	3	3	5
Ashkzar.....	2	2	2
Bafgh .....	1	1	3
Behabad .....	2	1	3
Taft .....	3	2	10
Khatam .....	2	2	4
Mehriz .....	1	1	5
Meybod .....	3	3	5
Yazd .....	2	3	4

Source: Ministry of the Interior.

### 1.6. METEOROLOGICAL DATA FROM SYNOPTIC STATIONS IN CAPITALS OF OSTANS FROM THE YEAR OF ESTABLISHMENT TO THE END OF THE YEAR 1397

Capital of Ostan	Year of the establishment	Station characteristics							Height from the sea level (m)
		Geographic longitude and latitude							
		East longitude			North latitude				
		Second	Minute	Degree	Second	Minute	Degree		
Arak .....	1328	0	47	49	19	4	34	1702.8	
Ardebil .....	1355	43	19	48	5	13	38	1335.2	
Orumiyeh .....	1330	19	3	45	31	39	37	1328.0	
Esfahan .....	1330	22	42	51	3	31	32	1550.0	
Ahvaz .....	1330	39	44	48	41	20	31	22.5	
Ilam .....	1361	52	23	46	16	35	33	1337.0	
Bojnurd .....	1355	12	18	57	14	29	37	1112.0	
Bandar Abbas .....	1335	22	22	56	53	12	27	9.8	
Bushehr .....	1330	16	49	50	14	54	28	6.0	
Birjand .....	1334	1	17	59	26	53	32	1491.0	
Tabriz .....	1327	33	14	46	20	7	38	1345.0	
Tehran .....	1321	34	18	51	36	41	35	1191.0	
Khorramabad .....	1328	1	17	48	20	26	33	1147.8	
Rasht .....	1334	27	37	49	21	19	37	24.8	
Zahedan .....	1330	1	54	60	20	28	29	1370.0	
Zanjan .....	1335	18	31	48	37	39	36	1659.4	
Sari .....	1378	12	59	52	12	32	36	23.0	
Semnan .....	1342	17	25	53	18	35	35	1127.0	
Sanandaj .....	1338	53	0	47	16	15	35	1373.4	
Shahr-e-Kord .....	1334	22	50	50	14	54	28	2050.0	
Shiraz .....	1336	9	36	52	41	33	29	1488.0	
Qazvin .....	1334	41	3	50	42	15	36	1279.1	
Qom .....	1364	19	51	53	29	46	34	879.1	
Karaj.....	1352	14	57	50	25	48	35	1292.9	
Kerman .....	1328	45	57	56	22	15	30	1754.0	
Kermanshah .....	1321	12	9	47	8	21	34	1318.5	
Gorgan .....	1331	49	24	54	18	54	36	0.0	
Mashhad .....	1328	52	37	59	11	14	36	999.0	
Hamedan .....	1354	5	32	48	10	52	34	1740.8	
Yasuj .....	1365	18	33	51	55	41	30	1816.3	
Yazd .....	1331	23	31	48	37	39	36	1230.2	

**1.6. METEOROLOGICAL DATA FROM SYNOPTIC STATIONS IN CAPITALS OF OSTANS  
FROM THE YEAR OF ESTABLISHMENT TO THE END OF THE YEAR 1397 (continued)**

Capital of Ostan	Air temperature (°C)					Average annual precipitation (mm)	Max. daily precipitation (mm)
	Average max	Average min	Mean	Absolut min	Absolute max		
Arak .....	21.0	7.1	14.1	-30.5	44.0	324.2	80.0
Ardebil .....	15.7	3.3	9.5	-33.8	40.4	280.6	63.0
Orumiyeh .....	17.9	5.4	11.7	-22.8	39.9	328.0	79.0
Esfahan .....	23.6	9.3	16.5	-19.4	43.0	123.2	48.0
Ahvaz .....	33.1	18.1	25.6	-7.0	54.0	197.8	107.0
Ilam .....	22.9	11.1	17.0	-13.6	42.0	554.4	282.0
Bojnurd .....	20.0	7.0	13.5	-25.0	42.3	251.6	54.3
Bandar Abbas .....	32.2	21.9	27.1	2.0	51.0	170.9	211.0
Bushehr .....	28.7	21.7	25.2	3.0	47.0	248.0	168.0
Birjand .....	24.7	8.5	16.6	-21.5	44.0	158.8	52.0
Tabriz .....	18.3	7.1	12.7	-25.0	42.0	279.9	63.0
Tehran .....	22.9	12.2	17.5	-15.0	43.0	226.8	50.4
Khorramabad .....	25.4	9.1	17.2	-14.6	47.0	488.5	94.0
Rasht .....	20.7	11.6	16.2	-19.0	40.0	1318.7	170.0
Zahedan .....	26.9	10.3	18.6	-22.0	43.4	85.7	52.0
Zanjan .....	18.4	4.3	11.3	-30.0	43.0	303.5	50.6
Sari .....	22.7	13.5	18.1	-6.0	42.6	706.8	85.4
Semnan .....	24.0	12.6	18.3	-12.6	44.0	135.9	41.0
Sanandaj .....	21.8	5.7	13.8	-31.0	44.0	424.5	73.0
Shahr-e-Kord .....	20.3	3.1	11.7	-32.4	42.0	311.0	88.8
Shiraz .....	25.9	9.9	17.9	-14.0	43.2	325.3	128.0
Qazvin .....	21.4	7.0	14.2	-24.0	43.0	309.5	50.0
Qom .....	26.0	10.9	18.4	-23.0	47.0	128.6	90.0
Karaj.....	21.5	9.0	15.3	-17.0	42.0	242.6	57.0
Kerman .....	24.9	7.1	16.0	-30.0	42.0	142.5	60.0
Kermanshah .....	23.0	6.3	14.6	-27.0	44.1	424.1	108.0
Gorgan .....	23.0	12.7	17.9	-11.8	46.2	563.0	105.0
Mashhad .....	21.4	7.6	14.5	-28.0	43.8	246.9	52.0
Hamedan .....	19.6	3.6	11.6	-32.8	40.0	301.0	56.0
Yasuj .....	22.7	7.8	15.2	-19.0	40.4	770.7	135.0
Yazd .....	26.8	12.2	19.5	-16.0	45.6	55.3	48.0

**1.6. METEOROLOGICAL DATA FROM SYNOPTIC STATIONS IN CAPITALS OF OSTANS  
FROM THE YEAR OF ESTABLISHMENT TO THE END OF THE YEAR 1397 (continued)**

Capital of Ostan	Mean of relative humidity (%)		Number of frosty days	Bright sunshine (hours)	Max. wind speed (mps)
	Max.	Min.			
Arak .....	66	30	87	2084 .3	35
Ardebil .....	88	54	119	1927 .7	37
Orumiyeh....	79	39	108	1989 .5	40
Esfahan .....	55	22	70	2515 .3	30
Ahvaz .....	62	28	0	1972 .1	35
Ilam .....	64	32	37	2783 .9	40
Bojnurd .....	77	36	88	2400 .7	45
Bandar Abbas .....	82	45	000	2336 .6	30
Bushehr .....	77	54	000	2931 .0	30
Birjand .....	49	16	73	2362 .5	26
Tabriz .....	69	36	98	2176 .1	38
Tehran .....	51	24	42	2827 .7	32
Khorramabad.....	69	29	48	1929 .5	30
Rasht .....	96	61	21	1202 .4	31
Zahedan .....	40	17	51	2339 .8	33
Zanjan .....	78	35	115	1810 .9	28
Sari .....	93	57	7	1888 .5	27
Semnan .....	51	26	43	2651 .5	22
Sanandaj .....	72	28	99	2544 .7	25
Shahr-e-Kord .....	66	23	124	2269 .1	32
Shiraz .....	59	19	45	2703 .1	30
Qazvin .....	77	35	86	1906 .6	39
Qom .....	62	27	51	2046 .4	28
Karaj.....	70	31	61	2844 .1	30
Kerman .....	41	11	84	2398 .4	50
Kermanshah .....	66	26	88	2224 .1	50
Gorgan.....	92	55	15	1258 .9	31
Mashhad .....	65	31	82	2497 .8	25
Hamedan .....	73	32	117	2455 .6	31
Yasuj .....	64	22	65	3130 .2	30
Yazd .....	40	15	44	2040 .7	30

Source: I. R. I. Meteorological Organization.

**1.7. METEOROLOGICAL DATA OF CAPITALS OF OSTANS, THE YEAR 1397**

Capital of Ostan	Air temperature (°C)					Annual precipitation (mm)
	Average max	Average min	Mean	Absolut min	Absolut max	
Arak .....	21.6	8.9	15.2	-8.0	39.8	526.7
Ardebil .....	17.0	5.7	11.3	-12.4	36.8	303.4
Orumiyeh .....	19.8	6.2	13.0	-9.0	39.6	515.2
Esfahan .....	24.5	11.0	17.7	-5.4	40.0	154.2
Ahvaz .....	34.0	20.5	27.2	2.9	52.4	332.5
Ilam .....	23.7	10.8	17.2	-5.4	41.2	1028.6
Bojnurd .....	21.3	8.2	14.8	-6.4	41.2	301.5
Bandar Abbas .....	33.0	21.9	27.4	6.7	44.8	117.7
Bushehr .....	30.3	22.6	26.4	8.3	45.6	357.7
Birjand .....	24.9	9.1	17.0	-8.8	39.5	196.8
Tabriz .....	20.1	9.2	14.6	-8.6	41.0	364.3
Tehran .....	23.7	14.1	18.9	-2.8	41.4	272.2
Khorramabad.....	25.5	10.3	17.9	-4.1	45.3	889.4
Rasht .....	22.0	13.9	17.9	1.0	36.4	1083.5
Zahedan .....	27.6	11.4	19.5	-6.2	42.0	52.2
Zanjan .....	20.2	5.9	13.1	-10.9	40.0	307.4
Sari .....	23.7	14.5	19.1	-0.4	38.0	887.9
Semnan .....	24.4	13.9	19.1	-2.4	43.0	178.1
Sanandaj .....	23.3	7.7	15.5	-7.6	42.8	551.0
Shahr-e-Kord .....	21.2	3.2	12.3	-20.3	36.8	336.1
Shiraz .....	26.9	10.8	18.8	-5.0	40.6	243.9
Qazvin .....	22.7	8.5	15.6	-6.8	41.7	331.6
Qom .....	27.1	11.8	19.4	-4.9	45.5	205.3
Karaj.....	22.5	10.6	16.6	-5.5	41.0	353.0
Kerman .....	26.1	8.4	17.3	-9.7	40.6	100.7
Kermanshah .....	23.8	8.4	16.1	-9.6	43.5	692.6
Gorgan.....	24.8	12.8	18.8	-3.1	43.5	647.6
Mashhad .....	23.1	10.3	16.7	-5.0	44.2	238.1
Hamedan .....	20.6	5.3	13.0	-15.4	39.5	519.5
Yasuj .....	20.4	6.4	12.9	-6.0	38.0	1054.7
Yazd .....	27.8	14.5	21.2	-3.2	43.0	70.7

**1.7. METEOROLOGICAL DATA OF CAPITALS OF OSTANS, THE YEAR 1397 (continued)**

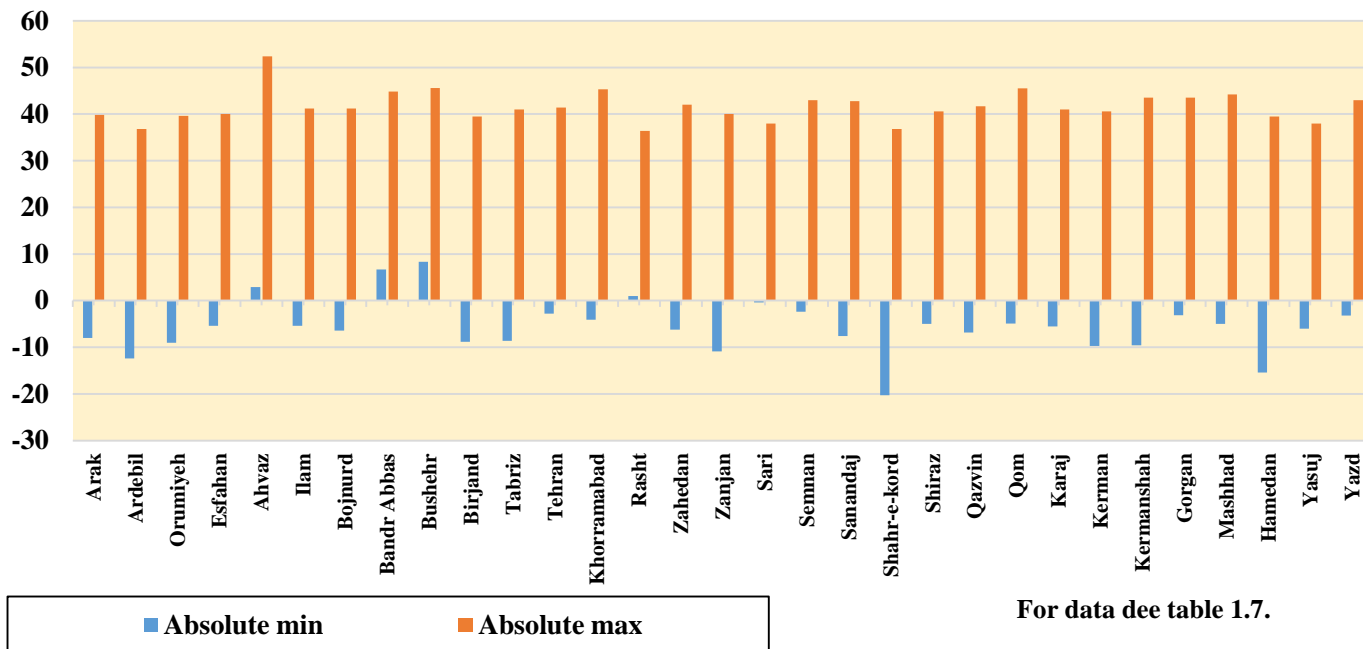
Capital of Ostan	Max. daily precipitation (mm)	Mean of relative humidity (%)		Number of frosty days	Number of dusty days	Bright sunshine (hours)	Max. wind speed (Mps)
		Max.	Min.				
Arak .....	35.0	66	30	70	69	2761.2	22
Ardebil .....	20.0	88	54	90	9	2491.7	23
Orumiyeh ....	41.0	79	39	89	4	2898.4	16
Esfahan .....	29.0	55	22	50	20	3316.9	27
Ahvaz .....	59.0	62	28	0	62	3053.3	24
Ilam .....	105.0	64	32	45	80	2943.3	23
Bojnurd .....	32.0	77	36	76	38	2912.5	18
Bandar Abbas .....	43.0	82	45	0	47	3217.6	13
Bushehr .....	59.0	77	54	0	22	000	000
Birjand .....	20.6	49	16	60	35	3425.9	16
Tabriz .....	25.3	69	36	73	18	2822.3	18
Tehran .....	25.0	51	24	14	7	3011.3	22
Khorramabad.....	38.0	69	29	42	52	2878.9	20
Rasht .....	66.0	96	61	0	1	1803.6	16
Zahedan .....	24.0	40	17	44	115	3343.1	20
Zanjan .....	19.0	78	35	95	24	2802.8	19
Sari .....	112.0	93	57	2	0	1869.0	25
Semnan .....	45.7	51	26	21	8	3009.0	16
Sanandaj .....	44.0	72	28	67	50	2886.0	60
Shahr-e-Kord .....	22.4	66	23	114	38	3125.1	48
Shiraz .....	27.1	59	19	49	50	3301.6	13
Qazvin .....	23.7	77	35	62	6	2794.8	21
Qom .....	18.3	62	27	37	64	3055.0	30
Karaj.....	25.0	70	31	30	5	2983.1	20
Kerman .....	18.0	41	11	73	29	3388.4	24
Kermanshah .....	46.1	66	26	56	45	2658.3	15
Gorgan.....	147.0	92	55	20	1	2316.2	30
Mashhad .....	26.0	65	31	40	23	2935.1	16
Hamedan .....	28.0	73	32	98	14	2943.0	24
Yasuj .....	84.0	64	22	68	52	3042.6	15
Yazd .....	22.0	40	15	10	65	3409.1	22

Source: I. R. I. Meteorological Organization.



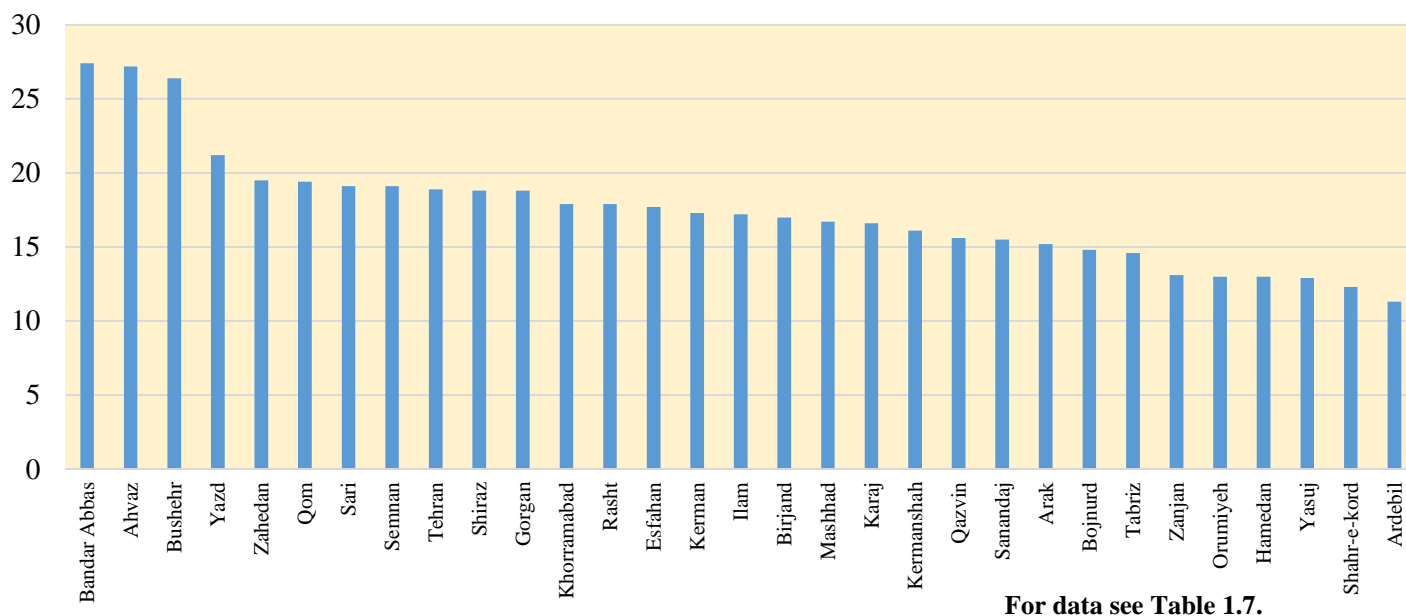
### 1.2. ABSOLUTE MAXIMUM AND MINIMUM TEMPERATURES IN CAPITALS OF OSTANS, THE YEAR 1397

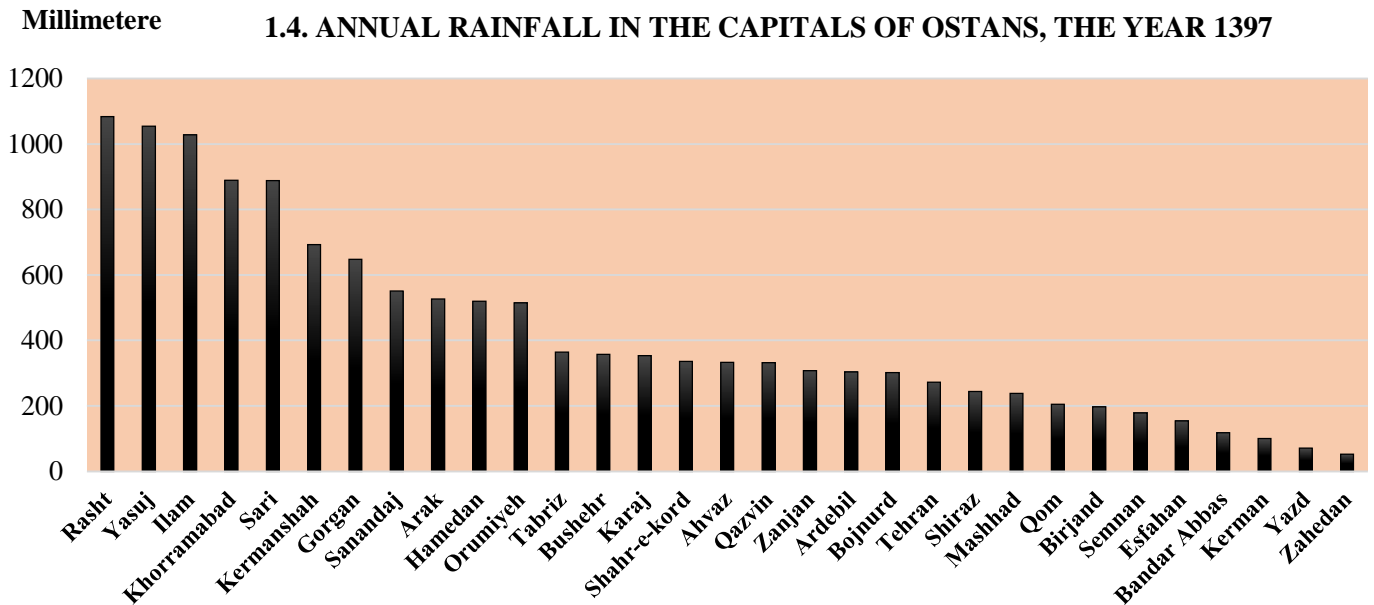
Celsius



### 1.3. AVERAGE ANNUAL TEMPERATURES IN CAPITALS OF OSTANS, THE YEAR 1397

Celsius





For data see Table 1.7.

**1.8. HIGHEST MAXIMUM TEMPERATURE, LOWEST MINIMUM TEMPERATURE AND AVERAGE MONTHLY TEMPERATURE IN CAPITALS OF OSTANS, THE YEAR 1397 (°C)**

Capital of Ostan	Month								
	Farvardin			Ordibehesht			Khordad		
	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp
Arak .....	27.8	1.0	14.2	25.8	4.8	15.0	35.0	10.0	22.4
Ardebil .....	26.6	-7.9	9.4	25.2	0.0	12.3	30.2	5.7	16.8
Orumiyeh .....	24.2	-2.0	12.1	25.2	1.4	13.8	30.6	8.4	19.7
Esfahan .....	30.0	4.6	17.1	29.6	8.8	18.8	38.6	11.8	26.6
Ahvaz .....	40.5	13.7	25.7	42.7	16.3	29.5	49.2	24.0	37.6
Ilam .....	28.2	2.7	15.4	29.8	6.1	16.7	35.4	13.9	24.6
Bojnurd .....	30.8	0.4	13.1	32.4	4.0	16.7	36.6	8.8	22.8
Bandar Abbas .....	38.0	15.1	26.8	39.8	20.1	30.4	44.8	22.3	33.3
Bushehr .....	34.1	17.5	25.0	39.0	21.5	28.5	42.3	23.8	33.4
Birjand .....	32.8	2.5	17.2	34.2	6.4	20.1	39.4	11.1	26.4
Tabriz .....	24.2	0.2	12.9	26.8	3.0	15.1	31.2	10.6	21.4
Tehran .....	30.3	3.2	17.6	29.4	7.6	19.5	37.2	16.8	26.8
Khorramabad.....	30.3	3.3	15.3	30.0	5.6	17.2	37.0	11.8	24.6
Rasht .....	29.4	1.6	13.3	29.2	7.2	19.1	31.6	14.4	23.0
Zahedan .....	34.5	3.6	20.5	36.0	7.1	24.0	41.6	11.5	28.0
Zanjan .....	27.2	-4.4	11.8	25.8	1.0	13.3	31.9	7.8	19.3
Sari .....	34.6	4.2	15.4	35.0	10.2	20.4	34.4	16.4	24.2
Semnan .....	30.6	2.8	18.3	31.2	9.0	20.5	38.6	19.6	28.4
Sanandaj .....	27.8	1.1	14.0	29.0	3.6	15.2	35.4	9.6	21.8
Shahr-e-Kord .....	25.7	-5.5	10.5	25.5	1.8	13.4	34.0	3.3	19.1
Shiraz .....	30.8	4.4	17.3	32.4	8.0	20.2	40.2	14.0	27.4
Qazvin .....	30.0	-2.4	13.9	28.0	3.8	15.9	34.9	9.0	22.5
Qom .....	34.2	3.3	19.0	34.8	7.4	21.0	41.0	14.4	27.9
Karaj.....	29.8	-0.3	14.9	29.0	5.7	17.0	35.3	11.0	23.6
Kerman .....	32.9	0.0	16.9	33.6	6.1	19.7	39.1	9.8	26.8
Kermanshah .....	28.2	1.2	14.2	28.0	3.3	15.2	34.8	10.3	22.1
Gorgan.....	31.9	1.8	14.6	37.0	8.5	20.1	38.5	13.8	25.6
Mashhad .....	32.9	1.0	14.5	36.1	8.4	19.4	40.1	13.7	25.4
Hamedan .....	26.2	-1.5	11.7	25.0	2.8	12.7	31.8	7.4	18.7
Yasuj .....	27.4	3.2	13.6	27.0	4.8	15.2	36.2	9.2	23.0
Yazd .....	34.9	6.6	20.3	33.9	12.6	22.3	41.5	18.9	30.8

**1.8. HIGHEST MAXIMUM TEMPERATURE, LOWEST MINIMUM TEMPERATURE AND AVERAGE MONTHLY TEMPERATURE IN CAPITALS OF OSTANS, THE YEAR 1397 (continued) (°C)**

Capital of Ostan	Month								
	Tir			Mordad			Shahrivar		
	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.
Arak .....	39.8	16.0	28.6	39.0	17.6	29.4	36.8	12.2	25.0
Ardebil .....	36.8	8.0	21.5	33.2	8.2	20.2	33.4	6.5	17.5
Orumiyeh ....	39.6	11.6	25.4	38.6	12.5	25.1	34.0	6.4	21.3
Esfahan .....	39.6	17.8	29.7	40.0	18.6	29.7	37.8	15.6	27.1
Ahvaz .....	52.4	26.9	39.4	50.2	27.9	39.0	48.2	25.0	37.3
Ilam .....	41.2	16.7	29.5	41.1	18.1	29.6	39.5	16.2	27.6
Bojnurd .....	41.2	13.6	27.7	38.8	13.6	26.5	37.0	7.0	22.1
Bandar Abbas .....	44.7	27.3	34.4	43.1	28.6	34.9	39.7	25.4	32.4
Bushehr .....	45.6	26.8	33.8	39.7	28.6	34.1	41.3	28.1	33.8
Birjand .....	38.4	16.0	28.4	39.5	14.3	27.3	37.8	7.9	22.7
Tabriz .....	40.8	17.2	29.3	41.0	16.6	28.7	36.2	14.0	24.6
Tehran .....	41.0	23.4	32.6	41.4	19.8	32.2	37.6	19.2	28.4
Khorramabad.....	44.5	15.2	30.7	45.3	16.4	31.3	42.7	12.0	27.9
Rasht .....	36.4	19.2	28.4	35.0	20.0	27.3	32.6	17.6	25.3
Zahedan .....	41.7	17.1	29.7	42.0	17.0	29.0	37.2	10.5	23.5
Zanjan .....	40.0	10.8	26.3	39.0	9.8	26.3	35.9	6.2	21.8
Sari .....	38.0	18.4	29.5	38.0	21.6	29.0	35.2	17.2	26.6
Semnan .....	41.6	23.6	33.8	43.0	22.6	33.1	39.0	17.0	28.6
Sanandaj .....	42.6	11.8	28.3	42.8	14.2	29.5	39.8	10.4	24.9
Shahr-e-Kord .....	36.8	6.5	23.4	36.2	9.5	23.6	35.6	4.4	21.0
Shiraz .....	40.6	16.0	29.7	40.6	18.0	30.1	40.2	14.4	28.0
Qazvin .....	40.9	13.7	29.3	41.7	13.7	28.7	36.6	12.3	24.5
Qom .....	45.5	17.6	32.9	45.0	18.8	33.2	41.6	14.1	28.3
Karaj.....	41.0	16.1	30.3	40.8	14.8	29.5	37.0	13.9	25.4
Kerman .....	40.6	13.2	27.2	39.4	13.4	26.9	37.0	9.9	23.5
Kermanshah .....	42.8	11.9	28.7	43.5	14.8	29.2	40.6	10.2	25.6
Gorgan.....	43.5	19.9	31.0	39.5	20.1	30.2	37.3	14.5	26.8
Mashhad .....	40.9	18.3	30.2	44.2	17.4	28.5	39.2	9.0	23.4
Hamedan .....	38.8	10.6	25.6	39.5	12.5	26.9	37.1	7.1	22.1
Yasuj .....	38.0	14.4	26.5	37.0	16.8	000	36.8	13.6	24.8
Yazd .....	43.0	21.7	32.8	42.9	22.0	32.6	41.1	18.2	30.1

**1.8. HIGHEST MAXIMUM TEMPERATURE, LOWEST MINIMUM TEMPERATURE AND AVERAGE MONTHLY TEMPERATURE IN CAPITALS OF OSTANS, THE YEAR 1397 (continued) (°C)**

Capital of Ostan	Month								
	Mehr			Aban			Azar		
	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.
Arak .....	31.6	6.8	18.0	23.8	-0.4	9.6	16.2	-2.8	6.4
Ardebil .....	30.0	-1.8	14.1	23.9	-2.8	7.9	15.6	-4.5	5.8
Orumiyeh ....	29.4	4.8	16.1	22.0	-1.4	8.6	14.4	-4.4	4.8
Esfahan .....	33.4	8.8	20.3	27.0	0.8	12.4	18.0	-2.6	8.5
Ahvaz .....	45.8	19.0	31.8	34.0	12.1	21.9	26.5	7.1	17.2
Ilam .....	33.6	10.4	22.4	24.6	3.4	13.0	19.6	0.0	9.0
Bojnurd .....	29.8	0.2	15.4	30.0	-3.0	10.1	19.6	-4.8	6.7
Bandar Abbas .....	40.2	19.8	30.6	34.6	16.2	26.1	32.8	9.8	21.2
Bushehr .....	38.6	24.5	31.4	33.2	16.7	24.1	28.5	12.7	19.8
Birjand .....	32.7	-0.7	16.8	29.1	-1.9	13.2	22.0	-3.6	8.9
Tabriz .....	29.8	5.4	18.3	23.0	0.8	10.1	13.4	-2.3	5.4
Tehran .....	32.6	12.2	21.4	26.2	5.8	13.0	17.4	3.4	10.2
Khorrabad.....	36.8	10.1	22.3	27.2	3.0	13.9	19.0	-1.3	8.9
Rasht .....	31.0	12.2	20.5	36.0	6.6	15.5	27.6	4.8	12.5
Zahedan .....	31.8	5.1	19.3	30.0	-1.8	15.2	23.6	-3.8	11.0
Zanjan .....	30.4	2.3	16.1	23.2	-3.4	8.0	16.3	-3.7	5.4
Sari .....	31.6	11.2	21.4	37.4	8.0	16.4	27.2	5.6	12.9
Semnan .....	32.4	10.0	21.0	27.2	5.0	13.5	17.4	2.0	9.7
Sanandaj .....	33.4	6.6	18.6	25.2	-0.1	11.3	16.2	-2.8	6.5
Shahr-e-Kord .....	29.4	-0.1	14.5	23.0	-4.4	8.3	16.9	-9.8	4.8
Shiraz .....	35.0	9.8	21.7	28.2	2.8	13.9	20.4	-2.4	9.6
Qazvin .....	32.7	5.7	18.3	25.2	-0.2	10.4	16.5	-0.7	7.5
Qom .....	35.9	10.0	21.8	31.2	4.4	14.1	20.4	-0.7	10.2
Karaj.....	31.4	7.4	19.0	26.3	0.0	10.9	17.5	0.6	8.6
Kerman .....	33.5	4.8	18.1	27.9	-0.2	13.0	23.9	-6.4	8.7
Kermanshah .....	33.7	8.1	20.3	25.5	1.3	12.3	17.1	-2.2	7.7
Gorgan.....	33.4	7.3	20.9	39.6	4.7	15.4	26.1	1.4	11.4
Mashhad .....	30.0	2.6	16.6	30.8	-1.3	10.7	22.2	-0.6	8.7
Hamedan .....	30.0	3.1	15.9	22.3	-1.4	8.7	14.8	-5.0	4.7
Yasuj .....	31.0	6.2	18.9	25.0	-0.4	10.9	19.4	-2.8	7.3
Yazd .....	36.5	10.8	23.0	30.2	4.4	15.2	23.8	1.8	12.3

**1.8. HIGHEST MAXIMUM TEMPERATURE, LOWEST MINIMUM TEMPERATURE AND AVERAGE MONTHLY TEMPERATURE IN CAPITALS OF OSTANS, THE YEAR 1397 (continued) (°C)**

Capital of Ostan	Month								
	Dey			Bahman			Esfand		
	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.	Highest Max. Temp.	Lowest Min. Temp.	Mean Temp.
Arak .....	16.8	-8.0	3.1	15.2	-6.4	4.5	19.2	-4.2	5.2
Ardebil .....	12.0	-11.1	2.3	15.0	-12.4	2.8	16.8	-6.3	4.2
Orumiyeh .....	11.2	-9.0	0.4	11.6	-7.5	2.4	15.2	-5.6	4.6
Esfahan .....	17.4	-5.4	5.8	19.0	-5.0	6.9	20.0	-3.0	8.4
Ahvaz .....	23.3	2.9	14.3	25.0	4.3	15.3	27.0	7.1	17.1
Ilam .....	15.8	-5.4	5.4	16.7	-3.3	6.2	18.1	-2.3	6.5
Bojnurd .....	18.2	-5.4	4.7	16.8	-5.6	3.8	22.0	-6.4	6.3
Bandar Abbas .....	28.7	6.8	19.4	27.2	6.7	18.8	28.2	10.7	19.6
Bushehr .....	25.2	8.3	17.4	26.5	8.3	17.5	26.0	11.0	17.8
Birjand .....	22.8	-7.7	7.0	20.1	-8.8	6.2	22.3	-6.4	8.4
Tabriz .....	10.0	-8.4	1.0	12.6	-8.6	2.4	15.6	-4.2	4.7
Tehran .....	14.8	-2.8	6.2	15.4	-1.6	7.3	19.2	-0.5	9.6
Khorramabad .....	18.7	-4.1	6.5	17.1	-3.9	6.7	18.8	-2.2	7.6
Rasht .....	24.8	1.0	9.7	21.6	1.0	8.9	26.6	2.2	10.8
Zahedan .....	25.6	-5.6	11.6	22.8	-6.2	9.8	23.1	-2.2	10.9
Zanjan .....	12.5	-10.7	1.1	13.9	-10.9	2.1	17.1	-7.5	3.7
Sari .....	25.8	0.0	10.2	24.3	0.4	10.2	29.8	-0.4	11.9
Semnan .....	13.8	-2.4	5.5	16.0	-1.8	7.1	21.8	-2.0	9.4
Sanandaj .....	15.6	-7.6	3.5	15.6	-7.4	4.3	17.2	-4.8	6.0
Shahr-e-Kord .....	14.6	-12.1	2.8	15.2	-12.3	2.3	15.8	-20.3	1.5
Shiraz .....	19.0	-5.0	8.3	21.0	-4.0	8.4	20.8	-3.2	9.5
Qazvin .....	12.8	-6.8	3.7	15.9	-6.2	5.0	19.3	-3.6	6.7
Qom .....	16.2	-4.9	5.7	17.4	-3.6	7.8	22.9	-3.5	9.9
Karaj.....	14.8	-5.5	4.7	15.9	-5.2	5.6	18.2	-4.4	7.4
Kerman .....	22.2	-9.7	8.5	20.0	-9.5	7.3	24.3	-4.6	9.1
Kermanshah .....	16.1	-9.6	4.8	15.8	-6.8	5.4	18.3	-5.0	6.5
Gorgan .....	23.5	-3.1	8.5	23.7	-1.6	8.9	27.6	-2.6	10.9
Mashhad .....	21.6	-3.6	7.0	17.3	-4.9	6.0	23.8	-5.0	8.7
Hamedan .....	14.8	-15.4	1.5	12.8	-12.3	2.1	17.0	-9.4	3.2
Yasuj .....	15.6	-6.0	5.6	17.0	-5.8	5.1	16.6	-6.0	5.6
Yazd .....	25.6	-3.2	10.4	24.7	-2.9	10.5	26.0	2.2	12.4

Source: I. R. I. Meteorological Organization.

**1.9. TOTAL PRECIPITATION IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1397 (mm)**

Capital of Ostan	Month					
	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	19.6	138.5	55.6	0.0	0.0	0.3
Ardebil .....	10.8	59.1	28.8	4.3	0.9	7.6
Orumiyeh .... ..	77.9	105.2	22.6	0.0	0.0	2.6
Esfahan .....	5.4	35.0	7.9	0.0	0.0	0.0
Ahvaz .....	31.8	12.1	0.0	0.0	0.0	0.0
Ilam .....	99.1	114.4	0.1	0.0	0.0	0.0
Bojnurd .....	24.8	63.5	10.4	0.1	2.1	0.2
Bandar Abbas .....	2.3	0.0	0.0	0.0	0.0	0.0
Bushehr .....	0.3	15.1	0.0	0.0	0.0	0.0
Birjand .....	28.3	15.9	0.0	0.0	0.0	0.0
Tabriz .....	43.1	54.2	35.9	0.0	0.1	9.8
Tehran .....	37.0	32.9	8.3	0.0	0.0	0.1
Khorramabad.....	104.6	140.9	12.9	0.0	0.0	2.4
Rasht .....	6.4	36.9	42.8	32.6	46.6	18.1
Zahedan .....	3.6	0.1	0.0	0.0	0.0	0.0
Zanjan .....	14.4	61.0	25.7	0.0	0.7	2.2
Sari .....	39.4	18.6	11.7	5.8	73.9	12.8
Semnan .....	14.9	27.0	4.8	0.0	0.1	1.3
Sanandaj .....	69.2	108.8	5.2	0.0	0.0	0.1
Shahr-e-Kord .....	28.6	48.6	9.3	0.0	0.0	0.0
Shiraz .....	22.2	38.2	0.5	0.0	0.0	0.0
Qazvin .....	10.2	58.7	21.6	0.0	0.0	0.4
Qom .....	8.4	33.9	15.2	0.0	0.0	0.0
Karaj.....	33.4	37.6	40.0	0.0	0.0	0.0
Kerman .....	26.7	10.2	0.8	0.0	0.0	0.0
Kermanshah .....	63.5	168.0	6.1	0.0	0.0	0.2
Gorgan.....	25.0	17.8	4.7	15.8	22.0	9.0
Mashhad .....	37.7	41.8	18.1	0.0	0.0	0.1
Hamedan .....	43.9	129.3	29.2	0.0	0.0	0.0
Yasuj .....	66.2	128.6	0.0	0.0	0.0	1.5
Yazd .....	10.9	13.8	0.2	0.0	0.0	0.0

**1.9. TOTAL PRECIPITATION IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1397****(continued)****(mm)**

Capital of Ostan	Month					
	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	5.5	70.6	77.8	75.5	29.6	53.3
Ardebil .....	8.9	36.5	33.3	28.5	58.5	25.7
Orumiyeh .....	3.4	46.1	102.2	20.8	70.2	63.9
Esfahan .....	4.4	11.5	30.0	48.1	7.0	4.8
Ahvaz .....	13.9	97.2	103.3	29.8	32.1	12.1
Ilam .....	47.3	222.6	165.2	91.6	185.7	102.6
Bojnurd .....	15.9	3.9	37.1	32.9	60.6	49.8
Bandar Abbas .....	0.5	3.8	15.0	0.1	40.6	55.3
Bushehr.....	30.0	158.6	89.3	23.0	41.0	0.3
Birjand .....	1.6	23.7	5.2	12.6	68.5	40.8
Tabriz .....	7.5	8.4	86.6	22.8	61.7	33.9
Tehran.....	8.4	49.9	49.8	32.2	29.6	23.6
Khorramabad.....	7.9	140.1	146.8	129.6	114.9	89.1
Rasht .....	201.2	145.9	106.9	97.8	218.9	129.7
Zahedan .....	0.3	0.1	0.0	0.1	6.0	42.1
Zanjan .....	9.1	26.3	66.2	27.1	47.3	27.1
Sari .....	186.9	58.1	45.1	167.8	97.0	170.4
Semnan .....	19.6	10.6	17.0	60.6	11.3	10.7
Sanandaj .....	15.8	49.9	111.8	56.4	90.0	43.4
Shahr-e-Kord .....	6.0	54.4	37.2	93.5	20.0	38.4
Shiraz .....	0.8	42.9	40.6	26.1	55.1	17.4
Qazvin .....	6.6	39.6	81.7	57.0	27.9	27.9
Qom .....	12.0	26.6	21.7	32.2	23.6	31.5
Karaj.....	17.8	51.0	59.8	45.7	28.0	39.5
Kerman .....	1.5	20.3	0.6	8.2	18.6	13.8
Kermanshah.....	30.1	118.8	104.8	34.9	95.1	70.8
Gorgan.....	54.5	46.7	37.4	125.5	115.1	173.7
Mashhad .....	6.9	34.8	19.1	13.4	39.2	26.6
Hamedan .....	17.7	72.9	91.4	50.3	38.3	46.3
Yasuj .....	0.4	247.6	157.0	180.5	191.1	81.7
Yazd .....	0.3	2.4	0.2	0.2	40.1	2.3

Source: I. R. I. Meteorological Organization.



**1.10. TOTAL MONTHLY HOURS OF BRIGHT SUNSHINE IN CAPITALS OF OSTANS, BY  
THE YEAR 1397 (hour)**

Capital of Ostan	Month					
	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	203 .3	181 .9	310 .4	348 .3	323 .6	313 .7
Ardebil .....	177 .0	202 .8	261 .2	354 .3	266 .4	283 .6
Orumiyeh .....	249 .8	194 .8	330 .1	398 .7	372 .4	346 .3
Esfahan .....	246 .8	252 .8	355 .9	389 .0	358 .0	338 .7
Ahvaz.....	273 .9	240 .5	335 .8	365 .2	358 .3	302 .7
Ilam .....	231 .8	229 .6	321 .7	386 .4	358 .0	326 .1
Bojnurd .....	180 .9	224 .3	337 .5	377 .3	363 .4	344 .5
Bandar Abbas .....	272 .3	290 .9	321 .6	312 .6	269 .9	300 .5
Bushehr.....	000	000	000	000	000	000
Birjand .....	258 .6	282 .7	357 .8	390 .2	372 .9	359 .1
Tabriz .....	231 .3	213 .9	311 .0	380 .9	336 .7	336 .5
Tehran.....	214 .7	226 .6	317 .7	382 .5	356 .6	332 .3
Khorrarnabad .....	222 .7	194 .0	318 .6	356 .6	334 .7	330 .3
Rasht .....	137 .7	158 .0	236 .1	289 .3	151 .8	219 .3
Zahedan .....	282 .4	271 .8	329 .7	339 .7	321 .2	333 .3
Zanjan .....	238 .9	207 .4	334 .6	368 .0	329 .5	335 .7
Sari .....	148 .7	194 .5	171 .2	255 .1	142 .8	182 .8
Semnan .....	217 .2	218 .3	327 .9	336 .8	347 .5	330 .0
Sanandaj .....	233 .5	213 .9	346 .8	388 .8	328 .6	333 .6
Shahr-e-Kord .....	241 .8	239 .5	338 .3	362 .4	321 .8	324 .0
Shiraz .....	269 .4	265 .9	355 .5	365 .5	364 .1	324 .5
Qazvin .....	230 .4	210 .2	306 .3	367 .9	314 .2	321 .4
Qom .....	219 .9	229 .4	329 .0	377 .3	362 .4	319 .3
Karaj.....	225 .6	240 .2	309 .4	378 .5	352 .7	333 .4
Kerman .....	279 .4	284 .6	310 .7	379 .1	363 .7	348 .7
Kermanshah.....	207 .7	193 .8	317 .1	362 .2	333 .6	318 .3
Gorgan.....	153 .2	198 .8	251 .4	304 .7	194 .8	254 .8
Mashhad .....	175 .9	236 .9	340 .7	389 .0	369 .5	331 .0
Hamedan .....	236 .0	206 .1	335 .1	375 .3	324 .9	330 .5
Yasuj .....	261 .6	246 .1	360 .9	371 .2	354 .0	213 .7
Yazd .....	266 .6	257 .3	347 .9	388 .1	366 .8	337 .9

**1.10. TOTAL MONTHLY HOURS OF BRIGHT SUNSHINE IN CAPITALS OF OSTANS, BY THE YEAR 1397 (continued) (hour)**

Capital of Ostan	Month					
	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	238 .5	128 .8	163 .7	152 .3	180 .9	215 .8
Ardebil .....	193 .4	122 .3	101 .0	183 .5	172 .6	173 .6
Orumiyeh .....	240 .9	145 .0	98 .2	158 .3	175 .0	188 .9
Esfahan .....	267 .0	193 .0	222 .2	197 .8	238 .2	257 .5
Ahvaz .....	269 .0	179 .3	157 .8	126 .2	198 .8	245 .8
Ilam .....	217 .4	169 .5	121 .3	174 .5	188 .4	218 .6
Bojnurd .....	271 .8	170 .9	131 .6	153 .5	166 .5	190 .3
Bandar Abbas .....	279 .7	237 .8	262 .0	235 .9	200 .3	234 .1
Bushehr .....	000	000	000	000	000	000
Birjand .....	300 .7	210 .5	241 .8	201 .3	217 .3	233 .0
Tabriz .....	267 .9	171 .6	80 .6	146 .3	162 .4	183 .2
Tehran .....	253 .1	153 .7	181 .3	184 .8	196 .8	211 .2
Khorramabad.....	243 .6	170 .5	143 .1	174 .6	172 .7	217 .5
Rasht .....	122 .3	83 .7	52 .9	139 .6	88 .9	124 .0
Zahedan .....	278 .7	246 .6	266 .1	237 .6	217 .0	219 .0
Zanjan .....	242 .7	141 .1	108 .6	139 .3	158 .7	198 .3
Sari .....	154 .6	127 .4	98 .3	133 .8	132 .2	127 .6
Semnan .....	262 .2	177 .3	183 .4	183 .5	199 .7	225 .2
Sanandaj .....	235 .2	171 .6	101 .8	170 .4	167 .7	194 .1
Shahr-e-Kord .....	237 .3	184 .9	214 .4	191 .0	239 .0	230 .7
Shiraz .....	263 .9	177 .6	240 .1	200 .8	217 .3	257 .0
Qazvin .....	242 .4	130 .2	135 .5	164 .6	178 .8	192 .9
Qom .....	265 .2	158 .1	177 .4	182 .1	211 .9	223 .0
Karaj.....	249 .5	149 .7	159 .3	187 .2	189 .4	208 .2
Kerman .....	274 .7	212 .8	269 .8	208 .5	219 .9	236 .5
Kermanshah .....	207 .3	148 .4	98 .8	144 .3	140 .0	186 .8
Gorgan.....	229 .9	160 .8	117 .0	133 .7	147 .8	169 .3
Mashhad .....	275 .8	129 .9	154 .5	177 .3	175 .9	178 .7
Hamedan .....	244 .8	164 .8	143 .2	180 .5	183 .7	218 .1
Yasuj .....	259 .2	163 .6	222 .2	165 .6	201 .3	223 .2
Yazd .....	290 .4	197 .7	236 .6	215 .9	241 .1	262 .8

Source: I. R. I. Meteorological Organization.

**1.11. MAXIMUM WIND SPEED IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1397 (mps)**

Capital of Ostan	Month					
	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	16	13	15	9	12	11
Ardebil .....	23	13	15	14	17	12
Orumiyeh ....	15	9	13	10	16	14
Esfahan .....	20	27	22	14	15	22
Ahvaz .....	17	24	16	14	17	7
Ilam .....	19	19	19	12	12	14
Bojnurd .....	12	12	16	14	15	9
Bandar Abbas .....	10	13	9	9	8	7
Bushehr .....	000	000	000	000	000	000
Birjand .....	14	16	15	15	15	11
Tabriz .....	14	18	13	16	12	12
Tehran .....	15	19	22	10	11	12
Khorramabad.....	15	16	20	11	12	15
Rasht .....	10	16	13	6	6	8
Zahedan .....	14	18	12	12	12	11
Zanjan .....	17	17	19	14	13	14
Sari .....	25	12	15	10	8	9
Semnan .....	12	14	16	11	11	11
Sanandaj .....	12	11	10	9	10	9
Shahr-e-Kord .....	23	22	18	17	14	18
Shiraz .....	10	11	7	10	8	7
Qazvin .....	16	14	21	15	14	15
Qom .....	21	22	30	17	17	21
Karaj.....	10	14	20	9	10	13
Kerman .....	16	18	20	16	14	18
Kermanshah .....	15	11	13	10	10	9
Gorgan.....	25	12	18	11	13	25
Mashhad .....	12	15	10	13	11	9
Hamedan .....	17	16	14	16	14	14
Yasuj .....	8	12	8	9	10	8
Yazd .....	20	25	22	18	18	14

**1.11. MAXIMUM WIND SPEED IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1397****(continued)****(mps)**

Capital of Ostan	Month					
	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	11	10	13	11	22	10
Ardebil .....	10	20	16	18	14	18
Orumiyeh....	8	12	10	10	7	11
Esfahan .....	19	18	20	24	19	24
Ahvaz .....	12	8	13	19	9	14
Ilam .....	20	15	23	17	20	17
Bojnurd .....	10	9	8	18	13	11
Bandar Abbas .....	10	11	9	9	10	10
Bushehr .....	000	000	000	000	000	000
Birjand .....	10	12	13	13	12	14
Tabriz .....	12	11	10	9	9	12
Tehran .....	11	13	12	17	17	15
Khorramabad.....	12	11	13	11	13	14
Rasht .....	7	9	9	11	7	9
Zahedan .....	11	16	15	18	17	20
Zanjan .....	16	15	12	16	13	16
Sari .....	10	16	13	25	9	16
Semnan .....	12	10	7	13	14	15
Sanandaj .....	15	60	8	12	10	10
Shahr-e-Kord .....	22	15	18	28	48	21
Shiraz .....	13	7	7	9	12	10
Qazvin .....	18	12	12	17	14	14
Qom .....	18	14	13	17	17	18
Karaj.....	15	14	12	16	16	19
Kerman .....	17	12	15	21	18	24
Kermanshah .....	12	10	10	14	11	11
Gorgan.....	12	9	10	25	19	30
Mashhad .....	9	7	10	14	12	16
Hamedan .....	14	24	14	19	18	17
Yasuj .....	14	9	8	13	8	15
Yazd .....	21	13	18	21	20	19

Source: I. R. I. Meteorological Organization.

**1.12. TOTAL ANNUAL PRECIPITATION IN CAPITALS OF OSTANS****(mm)**

Capital of Ostan	Year							
	1380	1385	1390	1393	1394	1395	1396	1397
Arak .....	260	283	199	264	285	374	168	526
Ardebil .....	234	237	259	279	297	230	232	303
OrumiyeH ....	228	372	334	347	277	286	244	515
Esfahan .....	94	220	150	96	96	71	90	154
Ahvaz .....	235	184	89	137	270	113	90	332
Ilam .....	598	555	361	383	842	449	559	1029
Bojnurd .....	176	241	209	250	227	276	121	301
Bandar Abbas .....	85	277	58	190	152	149	83	118
Bushehr .....	488	224	124	99	273	80	233	358
Birjand .....	145	135	95	111	144	97	67	197
Tabriz .....	210	129	272	300	287	263	315	364
Tehran .....	192	227	316	134	209	194	160	272
Khorramabad.....	440	510	286	370	536	563	332	889
Rasht .....	1262	1476	1637	1318	1388	1479	864	1084
Zahedan .....	14	55	47	68	104	55	30	52
Zanjan .....	232	308	366	299	283	230	216	307
Sari .....	591	684	919	641	725	824	540	888
Semnan .....	73	177	176	110	108	128	67	178
Sanandaj .....	310	449	373	265	444	317	337	551
Shahr-e-Kord .....	334	413	240	297	310	317	150	336
Shiraz .....	317	305	274	225	272	284	172	244
Qazvin .....	232	325	424	221	314	297	292	332
Qom .....	125	111	123	74	112	139	94	205
Karaj.....	351	302	351	191	221	211	170	353
Kerman .....	119	134	108	123	110	98	35	101
Kermanshah .....	357	430	415	224	513	457	342	692
Gorgan.....	468	522	724	364	478	491	424	647
Mashhad .....	153	223	254	287	183	287	186	238
Hamedan .....	225	283	313	172	216	344	208	519
Yasuj .....	1126	777	661	624	611	533	356	1055
Yazd .....	60	44	22	43	38	24	24	70

Source: I. R. I. Meteorological Organization.

**1.13. AVERAGE ANNUAL HEIGHT OF PRECIPITATION IN OSTANS (mm)**

Ostan	Year								Long term
	1380	1385	1390	1393	1394	1395	1396	1397	
<b>Total country...</b>	<b>195 .98</b>	<b>147 .68</b>	<b>205 .92</b>	<b>220 .2</b>	<b>221 .3</b>	<b>233 .2</b>	<b>232 .3</b>	<b>323 .5</b>	<b>317 .3</b>
East Azarbayejan .....	206 .66	204 .80	295 .60	337 .7	326 .4	279 .0	315 .1	262 .7	256 .8
West Azarbayejan .....	278 .78	289 .83	407 .57	361 .2	391 .8	319 .2	244 .3	434 .4	379 .8
Ardebil .....	291 .21	195 .15	378 .85	341 .0	378 .3	338 .2	231 .8	248 .8	301 .4
Esfahan.....	136 .10	127 .90	144 .56	175 .4	121 .8	128 .9	90 .1	224 .4	167 .8
Alborz .....	000 <sup>(1)</sup>	000 <sup>(1)</sup>	000 <sup>(1)</sup>	202 .2	388 .9	403 .9	170 .2	191 .3	249 .1
Ilam .....	432 .08	245 .55	262 .11	357 .5	562 .2	430 .5	559 .0	614 .9	431 .4
Bushehr .....	457 .87	174 .04	124 .28	124 .3	264 .7	268 .6	233 .0	256 .9	245 .6
Tehran .....	235 .47 <sup>(1)</sup>	185 .01 <sup>(1)</sup>	380 .99 <sup>(1)</sup>	230 .7	263 .7	307 .0	160 .1	358 .2	304 .7
Chaharmahal & Bakhtiari...	670 .53	432 .25	488 .99	448 .8	500 .0	549 .5	150 .2	386 .6	517 .8
South Khorasan .....	000 <sup>(2)</sup>	36 .53	99 .10	109 .5	85 .6	94 .4	67 .2	129 .5	113 .4
Khorasan-e-Razavi .....	114 .95 <sup>(2)</sup>	86 .85	198 .34	236 .1	137 .1	212 .9	185 .9	176 .1	189 .1
North Khorasan .....	000 <sup>(2)</sup>	185 .51	300 .66	245 .9	257 .3	282 .6	121 .4	207 .4	229 .5
Khuzestan.....	360 .70	195 .36	179 .27	187 .1	347 .2	244 .6	89 .9	428 .5	285 .3
Zanjan .....	237 .74	211 .37	383 .55	252 .7	295 .7	280 .4	216 .2	145 .1	286 .1
Semnan .....	110 .04	105 .22	156 .36	134 .0	111 .3	131 .8	67 .1	186 .2	124 .8
Sistan & Baluchestan .....	31 .95	48 .78	74 .10	78 .5	71 .0	92 .8	30 .1	58 .3	91 .2
Fars .....	305 .62	205 .79	226 .74	223 .6	246 .3	374 .2	171 .9	211 .3	267 .1
Qazvin .....	330 .04	266 .95	422 .24	250 .7	282 .0	283 .2	292 .4	299 .2	289 .2
Qom .....	107 .95	99 .01	141 .74	80 .5	117 .4	173 .7	93 .6	155 .8	133 .8
Kordestan .....	399 .62	309 .74	472 .39	392 .1	473 .9	392 .5	336 .8	484 .4	458 .1
Kerman.....	93 .08	58 .79	79 .30	145 .2	122 .8	135 .1	34 .8	38 .7	128 .9
Kermanshah .....	370 .12	285 .22	432 .58	331 .8	575 .4	472 .8	341 .8	510 .0	397 .0
Kohgiluyeh & Boyerahmad...	712 .05	286 .45	426 .15	417 .2	471 .3	386 .1	356 .2	621 .8	523 .3
Golestan .....	382 .98	302 .73	567 .95	408 .5	547 .5	557 .6	424 .4	470 .0	435 .0
Gilan .....	1057 .41	897 .20	1231 .13	1104 .1	977 .2	1011 .6	863 .7	623 .8	1060 .1
Lorestan .....	405 .97	336 .20	331 .13	412 .2	601 .3	591 .8	331 .5	620 .5	425 .9
Mazandaran .....	774 .84	570 .26	909 .19	700 .4	722 .4	774 .5	539 .9	712 .2	775 .9
Markazi .....	193 .89	190 .95	238 .27	232 .5	257 .1	314 .6	167 .7	378 .1	246 .0
Hormozgan .....	105 .33	93 .91	73 .51	87 .8	184 .2	192 .0	83 .1	111 .5	143 .2
Hamedan .....	271 .51	248 .53	350 .89	272 .4	354 .9	395 .4	207 .5	416 .4	316 .1
Yazd .....	76 .19	46 .52	60 .31	87 .8	68 .7	59 .1	23 .7	64 .6	63 .9

1. Statistics for Alborz are included with Tehran.

2. Statistics for South Khorasan and North Khorasan are included with Khorasan-e-Razavi.

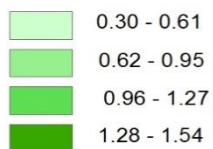
Source: I.R.I. Meteorological Organization.

**1.5. AVARAGE PRECIPITATION HEIGHT RATIO IN OSTANS IN THE YEAR 1397 TO THE LONG – TERM AVERAGE**



For data see Table 1.13.

Millimeter



**1.14. AREA AND OVERLAND FLOW COEFFICIENT OF MAIN BASINS**

Main basin	Area (1000 km <sup>2</sup> )	Coefficient of overland flow, the 49-year average (1347-1396)(%) <sup>(1)</sup>
<b>Total country</b> .....	<b>1622 .6</b>	<b>000</b>
Caspian Sea .....	174 .6	000
Persian Gulf and Oman Sea .....	424 .5	000
Lake Orumiyeh .....	51 .8	000
Central Plateau .....	824 .4	000
Eastern Border .....	103 .2	000
Qareh Qum .....	44 .2	000

1. Not available. The process of table calculation is being revised.

Source: Ministry of Energy.

**1.15. VOLUME OF PRECIPITATION IN THE MAIN BASINS (bln m<sup>3</sup>)**

Aquatic year	Total country	Caspian Sea	Persian Gulf & Oman Sea	Lake Orumiyeh	Central Plateau	Eastern Border	Qareh Qum
The 49-year average ( from the years 1347-1348 through 1395-1396) .....	405.975	74.973	155.589	17.695	136.521	11.383	9.848
1379-80 .....	299 .550	60 .756	110 .450	12 .031	105 .931	3 .923	6 .459
1384-85 .....	351 .635	66 .164	147 .105	17 .102	109 .583	4 .731	6 .950
1389-90 .....	328 .184	66 .913	120 .200	15 .405	110 .723	8 .331	6 .613
1392-93 .....	357 .175	63 .969	141 .775	14 .635	118 .303	10 .484	8 .009
1393-94 .....	328 .846	80 .725	101 .152	19 .560	108 .311	9 .499	9 .598
1394-95 .....	397 .210	90 .540	153 .160	20 .920	111 .210	10 .070	11 .170
1395-96 .....	378 .390	60 .290	156 .600	14 .360	132 .730	6 .440	7 .970
<b>1396-97</b> .....	<b>277.640</b>	<b>69.870</b>	<b>89.950</b>	<b>21.200</b>	<b>86.150</b>	<b>4.170</b>	<b>6.300</b>

Source: Ministry of Energy.



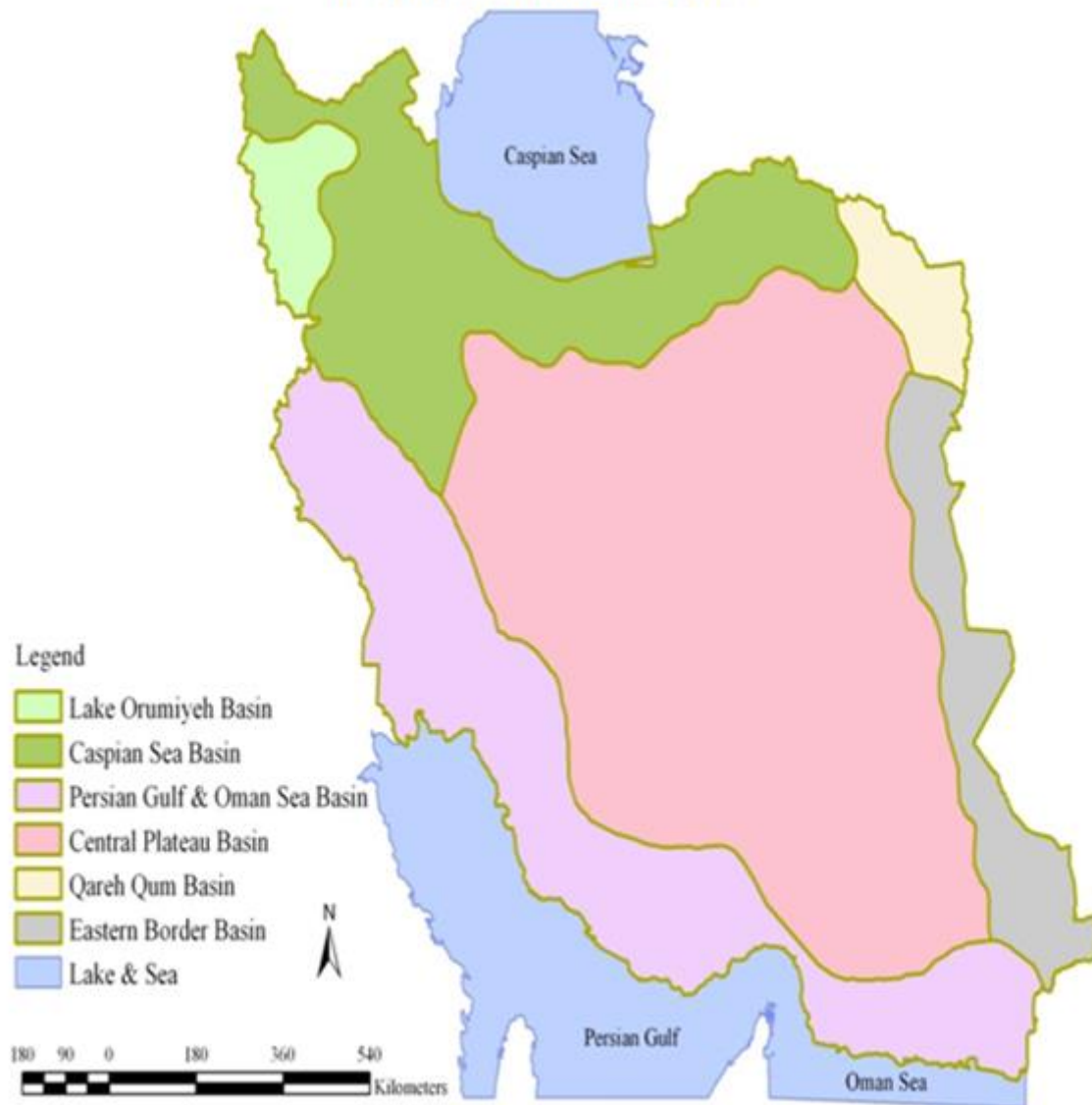
**1.16. ESTIMATED VOLUME OF OVERLAND FLOWS OF THE MAIN BASINS (bln m<sup>3</sup>)**

Aquatic year	Total country	Caspian Sea	Persian Gulf & Oman Sea	Lake Orumiyeh	Central Plateau	Eastern Border	Qareh Qum
The 49-year average ( from the years 1347-1348 through 1395-1396) <sup>(1)</sup> ....	000	000	000	000	000	000	000
1379-80 .....	37 .640	6 .540	23 .560	1 .270	4 .520	0 .462	1 .284
1384-85 .....	90 .317	11 .148	62 .297	3 .701	11 .458	0 .322	1 .391
1389-90 .....	44 .187	7 .904	23 .290	2 .947	8 .718	0 .293	1 .034
1392-93 .....	42 .703	6 .356	25 .805	2 .570	6 .405	0 .346	1 .222
1393-94 .....	40 .879	6 .976	22 .261	2 .118	7 .973	0 .300	1 .252
1394-95 .....	59 .112	9 .942	33 .559	4 .956	8 .715	0 .307	1 .632
1395-96 .....	52 .960	9 .219	29 .397	2 .904	9 .962	0 .341	1 .137
<b>1396-97<sup>(1)</sup> .....</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>	<b>000</b>

1. Not available. The process of table calculation is being revised.

Source: Ministry of Energy.

## 1.6.MAIN BASINS OF IRAN



For data see Table 1.14.