

# 1

# Land and Climate





**T**he statistical information appeared in this chapter includes the Geographical characteristics and administrative divisions, and Climate.

### *Introduction*

#### *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° 00' and 39° 47' north, and longitudes 44° 02' and 63° 20' east. The land's average height is over 1200 meters. 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, Caspian Sea, Azerbaijan, and Armenia on the north, Afghanistan and Pakistan on the east, Oman Sea and 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 cities 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 Azarbayegan, 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 Ostanon the east of Iran.

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, Oshoran Kuh and Zard Kuh and form Zagros ranges. The highest peak of this range is "Dena" with a 4409 m height.

Southern mountain range stretches from Khuzestan province to Sistan & Baluchestan province 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 (Great Faroor), Hendurabi, Khark, Minou, Siri, Khan, Abu Mosa, Espir (Orumiyeh Lake), Tonb Bozorg (Great Tonb), Morghi, Kharku, Arezoo, (Orumiyeh Lake), Faroor Kuchak (Small Faroor) and Tunb Kuchak (Small 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 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 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 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** of the interior and far south, characterized by long, warm and dry periods, lasting some years over 7 months. The annual precipitation in such regions varies between 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 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 annum.

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) centers. They include temperature, precipitation, and relative humidity, the number of frosty days, hours of bright sunshine and speed of 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, respectively in the year 1383.

The Statistics in this Chapter have been gathered from Armed Forces Geographical Organization, Ministry of Interior, I.R. of Iran Meteorological Organization and Iran Water Resource Management Company.

### Definitions and concepts

**Shahrestan (subprovince):** an administrative division with a certain geographical boundary,

formed from joining of a few neighboring Bakhshes(county) which enjoy 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 Shahr, 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.

**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 I.R. Iran's borderlines is 8574 kilometers out of which the longest borderline is for that of south waters with 2040 kilometers and the shortest one goes to Iran-Armenia which equals 45 kilometers.

In the year 1391, Sistan & Baluchestan, Kerman, South Khorasan, Fars, Khorasan-e-Razavi and Esfahan were among the largest provinces in the country respectively, and each of them has an area of more than 100000 Km<sup>2</sup>. Tehran province with an area of about 14000 Km<sup>2</sup> ranks 29th among the nation's provinces.

In the year 1391, I.R.Iran was divided into 31 Ostans (provinces), 422 Shahrestans (sub-provinces), 1041 Bakhshes (counties), 1224 Shahr (cities) and 2566 Dehestans (rural agglomerations).

In 1392 average maximum and minimum temperatures in Ostans' centers belong to Bandar Abbas with 26.5<sup>o</sup> C and Ardebil with 9.3<sup>o</sup> C respectively. Furthermore, the absolute maximum belongs to Ahvaz with 50.4<sup>o</sup> C and the absolute minimum goes to Shahr-e-Kord with -28.6<sup>o</sup> C. Also in the said year, the highest annual precipitation of the country belongs to Rasht and Sari, which amounted to 1325 and 741 mm respectively, and Semnan and Yazd with 80 and 64 mm respectively had the lowest annual precipitation amongst all Ostans' centers. In the year 1392, the maximum frosty days belong to Shahr-e-Kord with 137 days, Yasuj with 117 days and Hamedan with 114 days; and Ahvaz, Bandar Abbas and Bushehr have not experienced any frosty day.

The volume of precipitation in national main basins during the aquatic year of 1391-92 was approximately 393.276 bln m<sup>3</sup> out of which the

share of each basin is as follows: the Caspian Sea 70.789 bln m<sup>3</sup>, the Persian Gulf and Oman Sea 148.588 bln m<sup>3</sup>, the Lake of Orumiyeh 17.105 bln m<sup>3</sup>, Central Plateau 136.064 bln m<sup>3</sup>, Eastern Border 11.58 bln m<sup>3</sup> & Qareh Qum 9.15 bln 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 26.00%, Lake of Orumiyeh 3.00%, Central Plateau 51.00%, Eastern Border 6.00 % and Qareh Qum 3.00%.



**1. 1. LENGTH OF IRANIAN BORDERLINES:THE YEAR 1392 (km)**

Total	Iran-Iraq borderline	Iran- Turkey borderline	Iran- Turkmenistan borderline	Iran- Azerbaijan borderline
8574.....	1608	566.1	1190	756.8

Iran- Armenia border	Northern coastline	Iran- Afghanistan borderline	Iran- Pakistan borderline	Southern coastline
45	524	919.1	924.8	2040

Source: Armed Forces Geographical Organization

**1. 2. LONGITUDE AND LATITUDE OF OSTANS, THE YEAR 1392**

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>20</b>	<b>63</b>	<b>0</b>	<b>25</b>	<b>47</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 & Bakhtiari	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 .....	42	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, CITIES AND DEHESTANS ACCORDING TO THE ADMINISTRATIVE DIVISIONS

Year	Number of Shahrestans	Number of Bakhshes	Number of cities	Number of Dehestans
1375.....	265	707	678	2227
1380.....	299	794	889	2305
1385.....	336	889	1015	2400
1387.....	363	919	1061	2430
1388.....	380	945	1105	2459
1389.....	397	982	1144	2496
1390.....	400	994	1166	2507
<b>1391.....</b>	<b>422</b>	<b>1041</b>	<b>1224</b>	<b>2566</b>

Sources: Statistical Centre of Iran;  
- Ministry of the Interior.



#### 1. 4. GENERAL CHARACTERISTICS OF OSTANS ACCORDING TO THE ADMINISTRATIVE DIVISIONS AT THE END OF THE YEAR 1391

Ostan	Capital of Ostan	Area <sup>(2)</sup> (sq km)	Number of Shahrestans	Number of Bakhshes	Number of cities	Number of Dehestans
<b>Total country</b> .....	××	<b>1628763</b>	<b>422</b>	<b>1041</b>	<b>1224</b>	<b>2566</b>
East Azarbayejan .....	Tabriz	45650	20	44	59	142
West Azarbayejan .....	Orumiyeh	37411	17	40	42	113
Ardebil .....	Ardebil	17799	10	29	26	71
Esfahan .....	Esfahan	107019	23	48	106	126
Alborz.....	Karaj	5124	5	11	16	25
Ilam .....	Ilam	20132	9	22	23	43
Bushehr .....	Bushehr	22742	10	24	36	46
Tehran .....	Tehran	13689	16	33	43	71
Chaharmahal & Bakhtiyari...	Shahr-e-Kord	16327	9	24	36	49
South Khorasan .....	Birjand	150797	11	25	28	61
Khorasan-e-Razavi .....	Mashhad	118851	28	70	72	164
North Khorasan .....	Bojnurd	28434	8	19	18	45
Khuzestan .....	Ahvaz	64054	27	67	77	142
Zanjan .....	Zanjan	21773	7	16	19	46
Semnan .....	Semnan	97490	8	15	20	31
Sistan & Baluchestan.....	Zahedan	181785	18	47	37	111
Fars .....	Shiraz	122608	29	84	101	205
Qazvin .....	Qazvin	15567	6	19	25	46
Qom .....	Qom	11526	1	5	6	9
Kordestan .....	Sanandaj	29137	10	31	29	86
Kerman .....	Kerman	180726	23	58	71	151
Kermanshah .....	Kermanshah	25008	14	31	31	86
Kohgiluyeh & Boyerahmad..	Yasuj	15504	8	19	17	45
Golestan .....	Gorgan	20367	14	27	27	60
Gilan .....	Rasht	14042	16	43	52	109
Lorestan .....	Khorramabad	28294	10	29	25	85
Mazandaran .....	Sari	23842	21	56	58	131
Markazi .....	Arak	29127	12	23	35	66
Hormozgan .....	BandarAbbas	70697	13	38	39	85
Hamedan .....	Hamedan	19368	9	25	29	73
Yazd .....	Yazd	73873	10	19	21	43

1. Only land area

Source: Ministry of the Interior.

### ADMINISTRATIVE DIVISIONS , THE YEAR 1392



### 1. 5. BAKHSHES, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
<b>Total country</b> .....	<b>1041</b>	<b>1224</b>	<b>2566</b>
<b>East Azarbajejan</b> .....	<b>44</b>	<b>59</b>	<b>142</b>
Azarshahr .....	3	4	7
Osku .....	2	3	5
Ahar .....	2	2	9
Bostanabad .....	2	2	9
Bonab .....	1	1	3
Tabriz .....	2	4	6
Jolfa .....	2	3	5
Charoimaq .....	2	1	6
Khoda Afarien .....	3	1	7
Sarab .....	2	4	9
Shabestar .....	3	9	8
Ajabshir .....	2	1	4
Kaleibar .....	2	2	7
Maragheh .....	2	2	6
Marand .....	2	5	9
Malekan .....	2	2	5
Miyaneh .....	4	4	17
Haris .....	2	5	6
Hashtrud .....	2	2	7
Varzaqan .....	2	2	7
<b>West Azarbajejan</b> .....	<b>40</b>	<b>42</b>	<b>113</b>
Orumiyeh .....	5	5	20
Oshnaviyeh .....	2	2	4
Bukan .....	2	2	7
Poldasht .....	2	2	4
Piranshahr .....	2	2	5
Takab .....	2	1	6
Chaldoran .....	2	2	5
Chaypareh Eh .....	2	1	4
Khoy .....	4	6	11
Sardasht .....	2	3	6
Salmas .....	2	2	7
Shahindezh .....	2	3	5
Shout .....	2	2	4
Maku .....	2	2	5
Mahabad .....	2	2	5
Miandoab .....	3	3	11
Naqadeh .....	2	2	4

**1. 5. BAKHSHES, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
<b><i>Ardebil</i></b> .....	<b>29</b>	<b>26</b>	<b>71</b>
Ardebil .....	3	2	10
Bilehsavar .....	2	2	4
Parsabad .....	4	4	8
Khalkhal .....	3	3	8
Sareyn.....	2	1	4
Kowsar .....	2	1	4
Garmi .....	3	2	9
Meshkinshahr .....	5	6	12
Namin .....	3	3	7
Nayer .....	2	2	5
<b><i>Esfahan</i></b> .....	<b>48</b>	<b>106</b>	<b>126</b>
Aran & Bidgol .....	2	4	3
Ardestan .....	2	3	7
Esfahan .....	6	15	19
Borkhar .....	2	7	4
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	4	8
Shahin Shahr& Meymeh ....	2	6	4
Shahreza .....	1	2	4
Faridan .....	2	4	9
Fereydunshahr .....	1	2	5
Falavarjan .....	3	8	6
Kashan .....	4	6	9
Golpayegan .....	1	3	3
Lenjan .....	2	9	5
Mobarakeh .....	2	5	5
Naeen .....	2	3	5
Najafabad .....	2	6	5
Natanz.....	2	4	5
<b><i>Alborz</i></b> .....	<b>11</b>	<b>16</b>	<b>25</b>
Eshtehard .....	2	1	4
Savojbalagh.....	3	5	6
Taleghan.....	2	1	4
Karaj.....	2	7	6
Nazarabad.....	2	2	5
<b><i>Ilam</i></b> ... ..	<b>22</b>	<b>23</b>	<b>43</b>

### 1. 5. BAKHSHEH, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Abdanan .....	3	3	6
Ilam .....	3	2	6
Ivan .....	2	2	4
Darrehshahr .....	3	3	6
Dehloran .....	3	4	6
Sirvan.....	2	1	4
Shirvan & Chardavel .....	2	3	5
Malekshahi.....	2	3	4
Mehran .....	2	2	2
<b>Bushehr .....</b>	<b>24</b>	<b>36</b>	<b>46</b>
Bushehr .....	2	3	2
Tangestan .....	2	3	4
Jam .....	2	3	5
Dashtestan .....	6	9	12
Dashti .....	3	4	7
Dayyer .....	2	5	4
Deylam .....	2	2	4
Asalouye.....	2	2	4
Kangan .....	1	3	2
Genaveh .....	2	2	2
<b>Tehran .....</b>	<b>33</b>	<b>43</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	4	9
Shemiranat .....	2	4	3
Shahriar .....	1	7	6
Firuzkuh.....	2	2	5
Qods.....	1	1	2
Qarchak .....	1	1	2
Malard .....	2	2	4
Varamin .....	2	2	4
<b>Chaharmahal &amp; Bakhtiyari ...</b>	<b>24</b>	<b>36</b>	<b>49</b>
Ardal .....	2	4	4
Borujen .....	3	6	5
Bon.....	2	2	4
Saman.....	2	1	4
Shahr-e-Kord .....	2	8	4
Farsan .....	3	6	5
Kuhrang .....	3	1	7
Keyar.....	2	4	5
Lordegan .....	5	4	11
<b>South Khorasan .....</b>	<b>25</b>	<b>28</b>	<b>61</b>
Boshroye .....	2	2	4

**1. 5. BAKHSHEH, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Birjand.....	1	1	6
Khosaf.....	2	2	5
Darmiyan .....	3	4	6
Zeerkooh.....	3	2	6
Sarayan .....	2	3	4
Sarbisheh .....	3	2	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>70</b>	<b>72</b>	<b>164</b>
Bakharz.....	2	1	4
Bajestan.....	2	2	4
Bardeskan .....	3	3	6
Binalood.....	2	2	4
Taybad .....	2	3	4
Torbat-e-Jam .....	5	5	13
Torbat-e-Heydariyeh .....	4	4	8
Joghatay.....	2	1	4
Jovin.....	2	1	4
Chenaran .....	2	2	5
Khalil Abad ..	2	2	4
Khaf .....	4	5	8
Khooshab.....	2	1	5
Davarzan.....	2	1	4
Dargaz .....	4	4	7
Rashtkhar .....	2	2	4
Zaveh.....	2	1	4
Sabzevar .....	3	3	11
Serakhs .....	2	2	6
Fariman .....	2	4	5
Firooze <sup>(1)</sup> .....	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>18</b>	<b>45</b>
Esfarayen .....	2	2	7
Bojnurd .....	2	2	5
Jajarm .....	3	3	5
Raz & Jargalan.....	3	1	6
Shirvan .....	3	2	9
Faruj .....	2	2	5

**1. 5. BAKHSHES, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Garmeh.....	1	3	2
Maneh and Samalqan .....	3	3	6
<b>Khuzestan .....</b>	<b>67</b>	<b>77</b>	<b>142</b>
Abadan .....	2	3	6
Aghajaree.....	2	1	2
Omidiyeh .....	2	2	3
Andimeshk .....	2	5	4
Endika .....	3	2	6
Ahvaz .....	3	2	6
Izeh .....	3	2	10
Baghmalek .....	3	4	8
Bavi.....	2	3	4
Bandar-e-Mahshahr .....	2	3	1
Hamidiyeh .....	3	4	6
Behbahan .....	2	1	4
Khorramshahr .....	2	3	4
Dezful .....	4	9	11
Dasht-e-Azadegan .....	2	4	5
Ramshir .....	2	2	4
Ramhormoz .....	4	1	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	2	6
haftgol.....	2	1	3
Hendijan .....	2	2	4
Hovayzeh.....	2	2	4
<b>Zanjan .....</b>	<b>16</b>	<b>19</b>	<b>46</b>
Abhar .....	2	4	8
Ijerud .....	2	2	4
Khodabandeh .....	4	5	10
Khorramdarreh .....	1	1	2
Zanjan .....	3	3	12
Tarom .....	2	2	5
Mahnesan .....	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
Garmsar .....	2	2	3
Mehdishahr.....	2	3	3
Mayamee .....	2	1	5
<b>Sistan &amp; Baluchestan .....</b>	<b>47</b>	<b>37</b>	<b>111</b>
Iranshahr .....	3	4	7
Chabahar .....	3	2	6
Khash .....	3	2	11
Delgan .....	2	1	5
Zabol .....	1	2	1



**1. 5. BAKHSHES, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Zahedan .....	3	2	6
Zahak .....	2	1	4
Saravan .....	3	5	8
Sarbaz .....	4	3	11
Sibsavarani.....	2	2	4
Ghaser-e Ghand.....	3	1	6
Konarak .....	2	2	4
Mehrestan.....	2	1	4
Mirjave.....	3	1	7
Neekshahr.....	5	4	14
Neemrooz.....	2	1	4
Hamoon.....	2	2	4
Hirmand.....	2	1	5
<b>Fars .....</b>	<b>84</b>	<b>101</b>	<b>205</b>
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
Khorrambid .....	2	2	3
Khonj .....	2	1	4
Darab .....	4	4	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	5	8
Firuzabad .....	2	2	5
Qirokarzin .....	2	5	5
Kazerun .....	6	6	14
Kavar.....	2	1	4
Gerash.....	2	1	4
Larestan .....	6	8	13
Lamerd .....	4	4	8
Marvdasht .....	5	5	15
Mamasani .....	3	3	9
Mohr .....	4	5	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

**1. 5. BAKHSHES, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
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>29</b>	<b>86</b>
Baneh .....	4	4	8
Bijar .....	3	5	11
Dehgalan.....	2	2	5
Divandarreh .....	3	2	8
Sarvabad .....	2	2	8
Saqqez .....	4	2	11
Sanandaj .....	4	2	12
Qorveh .....	4	4	10
Kamyaran .....	2	2	7
Marivan .....	3	4	6
<b>Kerman .....</b>	<b>58</b>	<b>71</b>	<b>151</b>
Arzooeyeh.....	2	1	5
Anar.....	1	2	2
Baft .....	2	2	6
Bardsir .....	4	5	8
Bam .....	2	2	4
Jiroft .....	4	4	14
Rabar.....	2	2	4
Ravar .....	2	2	3
Rafsanjan .....	4	5	14
Rudbar-e-Jonub .....	2	2	4
Reegan.....	2	2	4
Zarand .....	2	4	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	1	5
Kerman .....	6	13	16
Kahnuj .....	2	1	5
Kohbonan .....	2	2	3
Manujan .....	2	2	5
Narmashir .....	2	2	4
<b>Kermanshah .....</b>	<b>31</b>	<b>31</b>	<b>86</b>
Eslamabad-E-Gharb .....	2	2	7
Paveh .....	3	5	5
Salas-e-Babajani .....	2	2	6
Javanrud .....	2	1	4
Dalahu .....	2	3	5
Ravansar .....	2	2	6

**1. 5. BAKHSHEH, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Sar-e-pol-e-Zahab .....	2	1	6
Sonqor .....	2	2	8
Sahneh .....	2	2	7
Qasr-e-Shirin .....	2	2	4
Kermanshah .....	5	4	13
Kangavar .....	1	1	5
Gilan-e-Gharb .....	2	2	6
Harsin .....	2	2	4
<b><i>Kohgiluyeh &amp; Boyerahmad .....</i></b>	<b>19</b>	<b>17</b>	<b>45</b>
Basht.....	2	1	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>27</b>	<b>60</b>
Azadshahr .....	2	3	4
Aq Qala .....	2	2	5
Bandar Gaz .....	2	2	4
Torkaman .....	2	1	4
Ramyar .....	2	4	4
Aliabad .....	2	2	4
Kordkuy .....	1	1	3
Kalaleh .....	2	2	5
Galikesh.....	2	1	4
Gorgan .....	2	3	5
Gomishan.....	2	2	4
Gonbad-e-Kavus .....	2	2	6
Marave-Tapeh.....	2	1	4
Minudasht .....	2	1	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
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

**1. 5. BAKHSHEH, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Fuman .....	2	3	6
Lahijan .....	2	2	7
Langrud .....	3	5	7
Masal .....	2	2	4
<b>Lorestan ....</b>	<b>29</b>	<b>25</b>	<b>85</b>
Azna .....	2	2	4
Aligudarz .....	5	2	12
Borujerd .....	2	2	7
Poldokhtar .....	2	2	7
Khorramabad .....	4	4	17
Delfan .....	2	2	10
Doreh.....	3	2	6
Dorud .....	2	2	5
Selseleh .....	2	2	6
Kuhdasht .....	5	5	11
<b>Mazandaran .....</b>	<b>56</b>	<b>58</b>	<b>131</b>
Amol .....	5	5	11
Babol .....	6	7	13
Babolsar .....	3	3	6
Behshahr .....	2	3	5
Tonkabon .....	3	4	7
Juybar .....	2	2	4
Chalus .....	3	4	6
Ramsar .....	1	2	4
Sari .....	6	4	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
Galugah .....	2	1	4
Mahmoudabad .....	2	2	5
Miandorood.....	2	1	5
Neka .....	2	1	5
Nur .....	3	5	9
Noshahr .....	2	3	6
<b>Markazi .....</b>	<b>23</b>	<b>35</b>	<b>66</b>
Ashtian .....	1	1	3
Arak .....	3	6	11
Tafresh .....	1	1	4
Khomein ....	2	2	7
Khondab .....	2	2	5
Delijan .....	1	2	4

**1. 5. BAKHSHES, CITIES AND DEHESTANS BY OSTAN AND SHAHRESTAN AT THE END OF THE YEAR 1391 (continued)**

Ostan and Shahrestan	Number of Bakhshes	Number of cities	Number of Dehestans
Zarandiyeh.....	2	5	6
Saveh .....	2	4	7
Shazand .....	4	6	9
Farahan.....	2	2	4
Komeijan ....	2	2	4
Mahallat .....	1	2	2
<b>Hormozgan .....</b>	<b>38</b>	<b>39</b>	<b>85</b>
Abumusa .....	2	1	2
Bastak .....	3	3	7
Bashagerd.....	3	2	6
Bandar Abbas .....	4	5	11
Bandar Lengeh .....	4	5	8
parsiyan .....	2	3	4
Jask .....	2	1	5
Hajiabad .....	3	3	6
Khamir .....	2	2	4
Rudan .....	4	3	10
Sireek.....	2	3	4
Qeshm .....	3	4	7
Minab .....	4	4	11
<b>Hamedan .....</b>	<b>25</b>	<b>29</b>	<b>73</b>
Asadabad .....	2	2	6
Bahar .....	3	4	6
Tuyserkan .....	2	3	7
Razan .....	3	3	7
Famenin.....	2	1	4
Kabudarahang .....	3	3	10
Malayer .....	4	5	15
Nahavand .....	4	4	9
Hamedan .....	2	4	9
<b>Yazd .....</b>	<b>19</b>	<b>21</b>	<b>43</b>
Abarkuh .....	2	2	4
Ardakan .....	3	3	5
Bafgh .....	1	1	3
Behabad.....	2	1	3
Taft .....	3	2	10
Khatam .....	2	2	4
Sadugh .....	2	3	3
Mehriz .....	1	1	5
Meybod .....	1	2	2
Yazd .....	2	4	4

1. Takhte Jolge Shahrastan was renamed "Firooze".

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 1390**

Capital of Ostan	Station characteristics		Air temperature (°c)				Mean
	Year of establishment	Altitude (m)	Average max	Average min	Absolute max	Absolute min	
Arak .....	1328	1702.8	20.8	7.1	44	-30.5	14
Ardebil .....	1355	1335.2	15.6	3.1	39.8	-33.8	9.3
Orumiyeh .....	1330	1328	17.8	5.5	39.2	-22.8	11.6
Esfahan .....	1330	1550	23.5	9.1	43	-19.4	16.3
Ahvaz .....	1330	22.5	33.2	17.9	54	-7	25.6
Ilam .....	1361	1337	22.6	11.4	41.4	-13.6	17
Bojnurd .....	1355	1112	19.9	7	42.3	-25	13.4
Bandar Abbas .....	1335	9.8	32.2	21.9	51	2	27
Bushehr .....	1330	6	28.3	21.5	47	4	24.9
Birjand .....	1334	1491	24.7	8.5	44	-21.5	16.6
Tabriz .....	1327	1345	18.2	7	42	-25	12.6
Tehran .....	1321	1191	22.8	12	43	-15	17.4
Khorramabad .....	1328	1147.8	25.3	9.1	47	-14.6	17.2
Rasht .....	1334	24.8	21.1	11.8	37.5	-13.6	16.4
Zahedan .....	1330	1370	26.9	10.2	43	-22	18.5
Zanjan .....	1335	1659.4	18.2	4.1	43	-30	11.2
Sari .....	1378	23	22	11.6	46	-11	16.8
Semnan .....	1342	1127	23.9	12.5	44	-12.6	18.2
Sanandaj .....	1338	1373.4	21.6	5.6	44	-31	13.6
Shahr-e-Kord .....	1334	2050	20.2	3.3	42	-32.4	11.8
Shiraz .....	1336	1488	25.8	9.9	43.2	-14	17.8
Qazvin .....	1334	1279.1	21.3	6.9	43	-24	14.1
Qom .....	1364	879.1	25.8	10.9	46	-23	18.3
Karaj .....	1352	1292.9	21.3	8.8	42	-17	15.1
Kerman .....	1328	1754	24.8	7	42	-30	15.9
Kermanshah .....	1321	1318.5	22.8	6.1	44.1	-27	14.5
Gorgan .....	1331	0	22.8	12.8	45	-11.8	17.8
Mashhad .....	1328	999	21.2	7.3	43.8	-28	14.3
Hamedan .....	1354	1740.8	19.4	3.5	40	-32.8	11.5
Yasuj .....	1365	1816.3	22.5	7.9	40.4	-19	15.2
Yazd .....	1331	1230.2	26.6	11.9	45.6	-16	19.3

**1.6. METEOROLOGICAL DATA FROM SYNOPTIC STATIONS IN CAPITALS OF OSTANS  
FROM THE YEAR OF ESTABLISHMENT TO THE END OF THE YEAR 1390 (continued)**

Capital of Ostan	Average annual precipitation (mm)	Max. daily precipitation (mm)	Mean of relative humidity (%)		Average number of frosty days	Average total bright sunshine (hours )	Max. wind speed (mps)
			Max.	Min.			
Arak .....	337.1	80	63	31	79	2759.8	28
Ardebil .....	295.5	63	90	53	113	2359.9	31
Orumiyeh .....	338.9	79	78	42	100	2678.7	31
Esfahan .....	125	48	59	24	65	2972	30
Ahvaz .....	209.2	107	63	27	2	2746.6	30
Ilam.....	583.7	162	54	27	33	2855.8	25
Bojnurd .....	267.8	54.3	80	40	82	2635.1	35
Bandar Abbas .....	176.1	211	82	47	0	2864.4	30
Bushehr .....	268	150	80	55	0	2933.5	30
Birjand .....	168.5	52	54	22	68	3116.7	19
Tabriz .....	283.8	63	71	36	91	2617.3	26
Tehran .....	232.7	50	56	28	36	2847	23
Khorramabad .....	504.3	78	65	29	41	2762.7	26
Rasht .....	1337.5	170	97	64	15	1736.8	18
Zahedan .....	89.3	62	50	19	45	2966.6	41
Zanjan .....	311.1	50.6	75	37	107	2681.2	23
Sari .....	738.9	77.2	92	70	14	1858.1	30
Semnan .....	140.7	41	54	30	37	2831.9	26
Sanandaj .....	449.9	73	70	29	91	2744	25
Shahr-e-Kord .....	321.8	88.8	68	30	113	2933.6	23
Shiraz .....	334.7	128	60	24	37	3147.1	29
Qazvin .....	314.4	50	73	32	78	2776.1	34
Qom .....	148.2	43	59	27	42	2625.8	31
Karaj .....	251.7	57	69	32	59	2819.4	25
Kerman .....	148	60	51	19	77	2978.6	35
Kermanshah .....	439.2	108	66	29	80	2730.4	31
Gorgan .....	583.8	105	85	53	12	1917.4	31
Mashhad .....	251.5	52	74	36	76	2758.3	22
Hamedan .....	317.7	56	76	35	111	2673.2	22
Yasuj.....	823.3	135	65	25	59	3131.9	30
Yazd .....	59.2	48	46	20	39	2920	33

Source: I. R. I. Meteorological Organization.



**1. 7. CLIMATIC CONDITIONS OF CAPITALS OF OSTANS, THE YEAR 1392**

Capital of Ostan	Air temperature (°c)					Annual precipitation (mm)
	Average max	Average min	Absolute min	Absolute max	Mean	
Arak .....	21	7.2	-22	41.6	14.1	264
Ardebil .....	15.1	3.4	-23	34.2	9.3	268
Orumiyeh .....	17.9	4.3	-17.6	35.2	11.1	241
Esfahan .....	24	9.6	-13.6	42	16.8	157
Ahva .....	32.6	18.8	1.2	50.4	25.7	238
Ilam .....	23.3	9.9	-5.6	42	16.6	664
Bojnurd .....	20.3	6.6	-17.6	38.6	13.5	116
Bandar Abbas .....	31.3	21.7	4.3	43.9	26.5	272
Bushehr.....	29.2	20.8	5	41.8	25	325
Birjand .....	25	8.4	-14.2	41.2	16.7	114
Tabriz .....	18.7	6.7	-18	37.6	12.7	226
Tehran.....	22.3	12.1	-7.6	42.6	17.2	82
Khorramabad .....	25.1	8.3	-7.6	44	16.7	434
Rasht .....	20.6	12.1	-8.6	37.2	16.4	1325
Zahedan .....	26.5	10.6	-13	41.8	18.6	108
Zanjan .....	18.4	3.9	-18.6	38.6	11.2	290
Sari .....	22.6	13.4	-5.6	40.2	18	741
Semnan .....	24.5	13.1	-8.4	43.2	18.8	80
Sanandaj .....	22.5	5.7	-12.5	42	14.1	319
Shahr-e-Kord .....	20	0.7	-28.6	38.6	10.4	324
Shiraz .....	25.8	9.6	-5.8	41.8	17.7	381
Qazvin .....	21.7	7	-10.7	40.6	11.4	250
Qom .....	26.7	11.1	-8.1	46.8	14.4	82
Karaj.....	21.8	9	-12	41	18.9	134
Kerman .....	25.2	7.8	-20.8	40.8	15.4	169
Kermanshah.....	23.3	6.7	-13.8	42.7	16.5	409
Gorgan.....	22.6	13	-7.4	42.8	15	387
Mashhad .....	22.2	8.7	-17.4	39.6	17.8	141
Hamedan .....	19.5	3.3	-23.4	39.6	15.5	310
Yasuj .....	22.6	6.7	-13.6	40	14.7	648
Yazd .....	26.5	13.3	-10.1	44.4	19.9	64

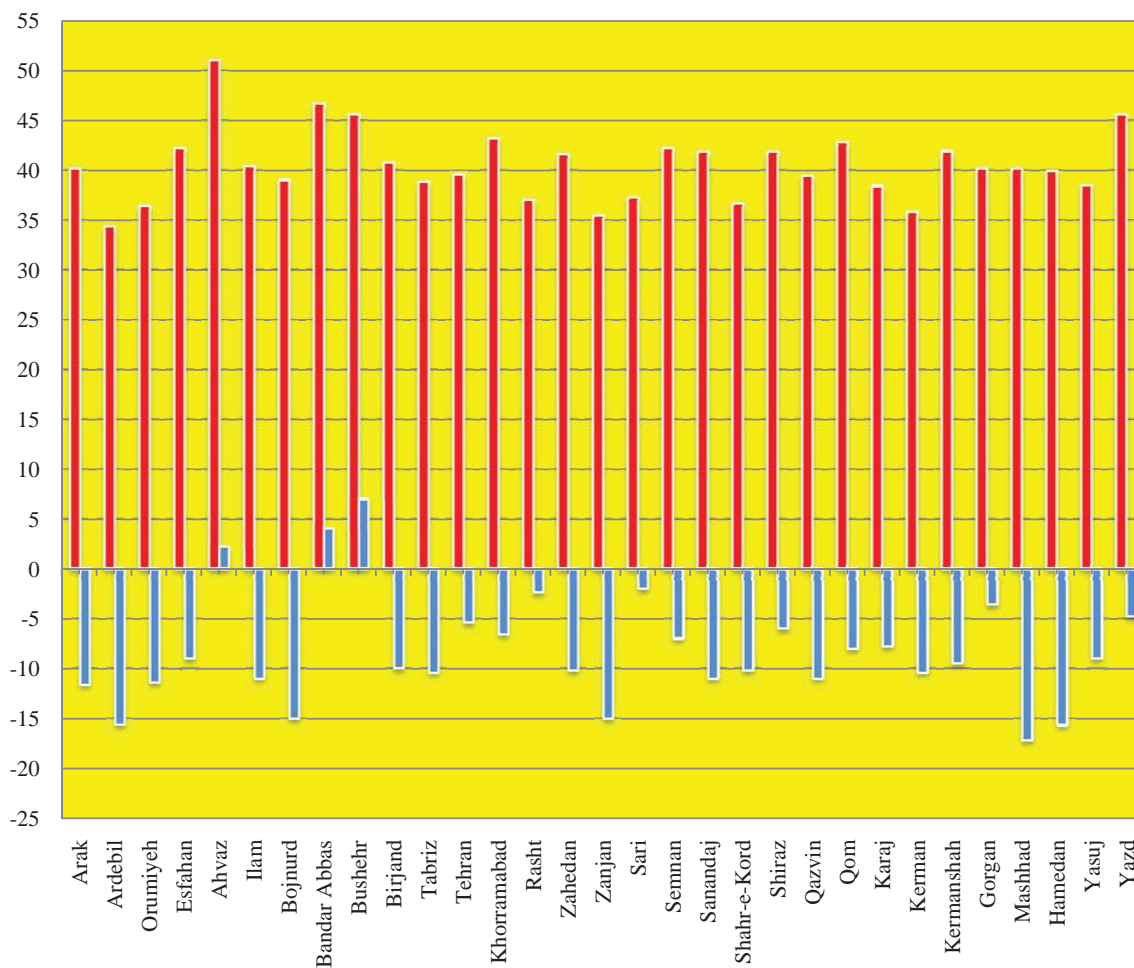
**1. 7. CLIMATIC CONDITIONS OF CAPITALS OF OSTANS, THE YEAR 1392 (continued)**

Capital of Ostan	Max. daily precipitation (mm)	Mean of relative humidity (%)		Number of frosty days	Bright sunshine (hours)	Max. wind speed (mps)
		Max.	Min.			
Arak .....	28.7	64	30	75	3048.7	13
Ardebil .....	23.9	89	51	108	2590.8	29
Orumiyeh .....	21.6	80	37	105	3058.8	22
Esfahan .....	22.6	80	8	65	3368.2	15
Ahva .....	27.6	85	14	0	3233.1	35
Ilam .....	55.9	61	28	45	3045.9	20
Bojnurd .....	13	81	30	94	2925.2	18
Bandar Abbas .....	110.5	84	45	0	3118.2	14
Bushehr.....	61.8	81	34	0	3251.1	20
Birjand .....	18.6	78	4	75	3444.1	16
Tabriz .....	15	71	30	97	2959.9	18
Tehran.....	15.2	53	22	55	3073	20
Khorramabad .....	29.7	67	23	51	3143.8	14
Rasht .....	92.4	97	32	12	1678.2	14
Zahedan .....	17.1	49	17	53	3334.8	24
Zanjan .....	33.9	79	34	107	3004.1	13
Sari .....	85.7	96	61	13	2023.5	17
Semnan .....	16	55	23	47	3201.1	15
Sanandaj .....	54.5	73	26	96	3077.1	15
Shahr-e-Kord .....	41.6	79	21	137	3244.2	24
Shiraz .....	71.3	66	20	60	3391.1	12
Qazvin .....	26.8	79	30	80	3017.7	20
Qom .....	12.2	81	13	47	3315	26
Karaj.....	12.1	89	15	58	2973.5	25
Kerman .....	21.9	55	18	81	3465	22
Kermanshah.....	32.8	62	24	72	2809.3	16
Gorgan.....	51	94	50	37	2317.1	24
Mashhad .....	13	92	8	70	3044.9	14
Hamedan .....	30.9	71	31	114	3001.8	13
Yasuj .....	36.9	85	4	117	3308.8	15
Yazd .....	11.4	68	7	42	3469.2	22

Source: I. R. I. Meteorological Organization.

**1. 1. ABSOLUTE MAXIMUM AND MINIMUM TEMPERATURES IN CAPITALS OF OSTANS, THE YEAR 1392**

Centigrade

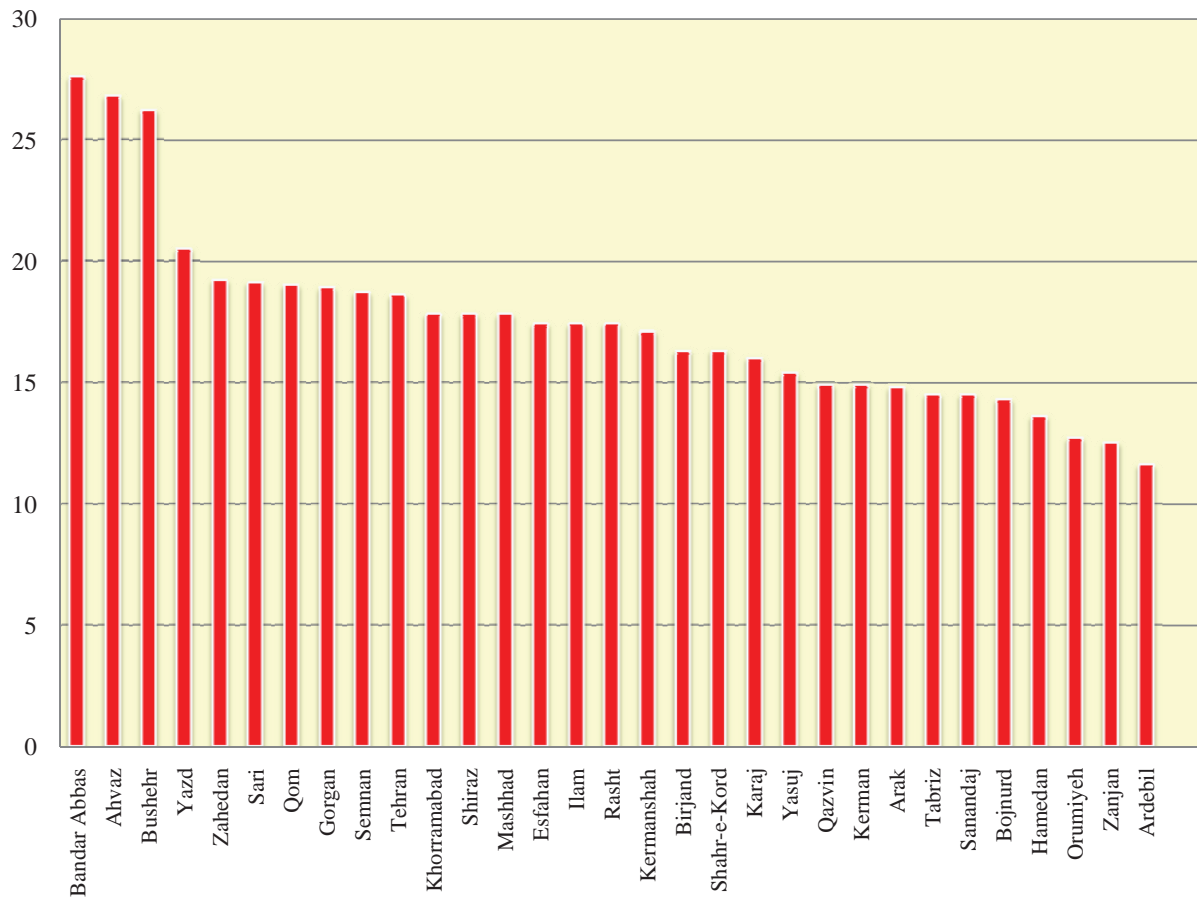


For data see Table 1. 7.



**1. 2. AVERAGE ANNUAL TEMPERATURES IN CAPITALS OF OSTANS, THE YEAR 1392**

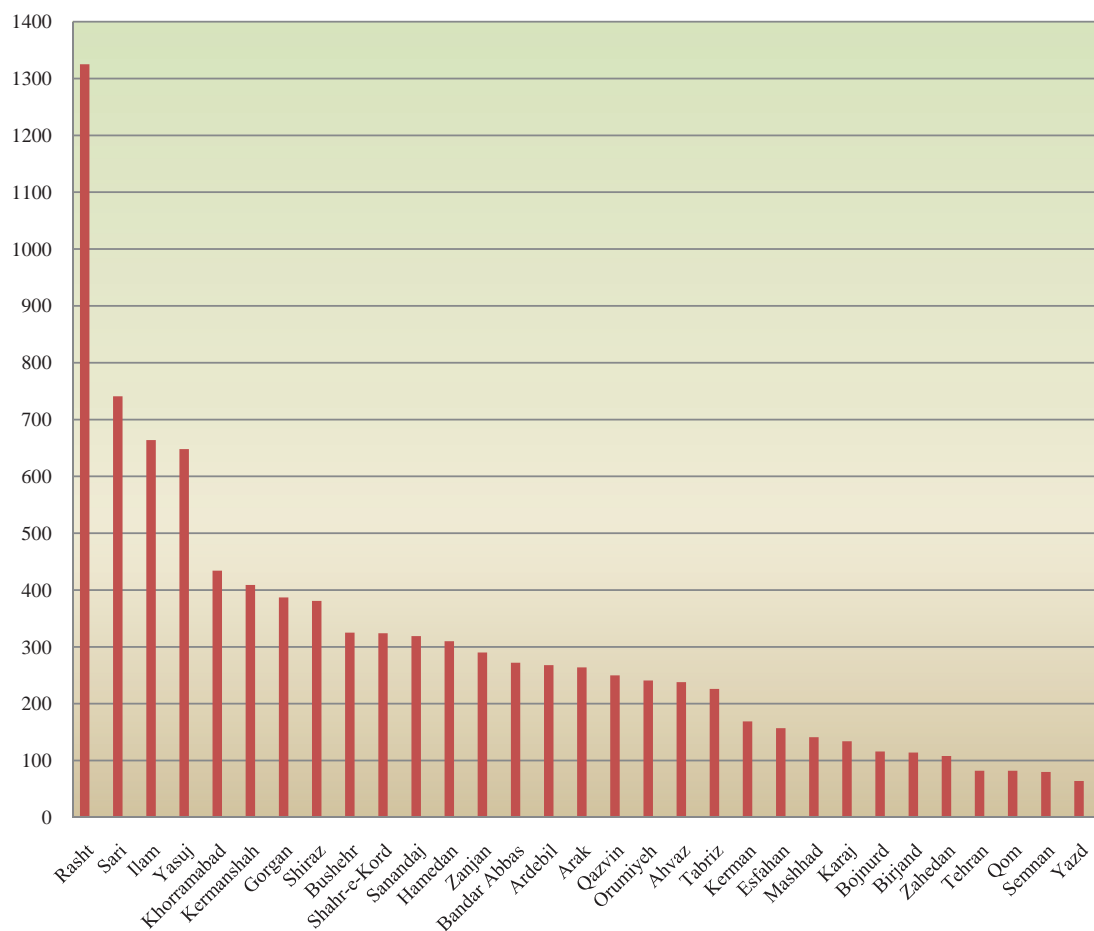
Centigrade



For data see Table 1.7.

### 1. 3. ANNUAL RAINFALL IN CAPITALS OF OSTANS, THE YEAR 1392

Millimetre



For data see Table 1.7.

### 1.8. ABSOLUTE MAXIMUM TEMPERATURE IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1392

Capital of Ostan	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	24.2	28.2	35.8	40.8	41.6	35.6
Ardebil .....	26.6	25.2	29.4	34.2	26.8	34.2
Orumiyeh .....	25	25	33.6	35.2	34	34.4
Esfahan .....	28	33.4	38.2	42	41.4	36.8
Ahva .....	37	41.4	46.8	50.4	48	46.6
Ilam .....	27	28.6	38.2	41.6	42	37.4
Bojnurd .....	27.2	30.2	36.4	38	38.6	37.4
Bandar Abbas .....	36.2	38.7	43.9	40.2	40.8	37.5
Bushehr.....	37	39.8	38.4	41.8	39.4	39.8
Birjand .....	29.4	35.2	40.5	41.2	41.2	36.7
Tabriz .....	25.2	25.6	36	37.6	36.6	35.2
Tehran.....	27.6	30	36.6	40.4	42.6	37.4
Khorramabad .....	27.4	30.6	41.2	44	44	39.6
Rasht .....	33.4	32.6	32.6	33.6	31.8	32.2
Zahedan .....	32	37.5	40.8	41.8	41.6	37.2
Zanjan .....	23	25.4	32.8	38.6	38.4	35.8
Sari .....	35.4	34	33.4	38	34.4	33.6
Semnan .....	28.6	31.6	39	42.4	43.2	39
Sanandaj .....	25.8	28.6	40	42	42	38.4
Shahr-e-Kord .....	21.6	25.2	34.4	38.2	38.6	33.6
Shiraz .....	28	32	39.8	41	41.8	37.8
Qazvin .....	27.6	28	36.2	40	40.6	36.4
Qom .....	32.6	34	41.9	44.7	46.8	42.3
Karaj.....	27	28.6	35.4	40	41	37
Kerman .....	28.4	33.6	39.6	40.8	40.8	36.4
Kermanshah.....	25.6	28.9	40.7	42.6	42.7	39.8
Gorgan.....	34	36	39	42.8	36.8	36.2
Mashhad .....	29.3	36.3	37.3	39.5	39.6	36.8
Hamedan .....	18.8	26.1	37.3	39.6	39.6	35.8
Yasuj .....	23.5	28.4	36.8	40	39.5	35.8
Yazd .....	31.8	35.4	42.4	43.5	44.4	39.4

**1.8. ABSOLUTE MAXIMUM TEMPERATURE IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1392 (continued)**

Capital of Ostan	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	30.4	21.6	19.2	7	15.4	21.4
Ardebil .....	29.4	19.4	19	6.8	13.6	18.2
Orumiyeh .....	28	18.1	15.8	9.2	13.6	18.8
Esfahan .....	32.6	23	22	12.2	17.4	23.6
Ahva .....	41.8	33.2	27.4	21.6	24.2	33.4
Ilam .....	31.6	25.6	20	16.4	16.4	22.6
Bojnurd .....	33.6	19.9	20	10	18.2	20.4
Bandar Abbas .....	41.2	37.7	32.2	24.2	25.1	32.4
Bushehr.....	35.8	32.4	26.8	23.6	25	33
Birjand .....	36.1	25.3	23.6	15.8	20.7	23.9
Tabriz .....	28.8	20.4	15.2	6.8	13.2	20.4
Tehran.....	33.2	12.2	21.4	12.2	16	21.4
Khorramabad .....	33.4	27.2	20.8	16.6	18.8	22.4
Rasht .....	37.2	22	28.8	18.6	14.6	27.8
Zahedan .....	37.5	27.5	25.2	15.4	23	25.6
Zanjan .....	28.4	19	16.6	6.4	12.4	17.8
Sari .....	40.2	28.2	29.6	18.8	21.8	27.4
Semnan .....	34.4	22.6	21.4	11.4	19.4	24
Sanandaj .....	31.6	23.2	19.5	12.6	17	22.4
Shahr-e-Kord .....	29	22.2	17.4	11	11.9	19
Shiraz .....	35.2	27	21.4	15.6	18.4	24.2
Qazvin .....	32	21	20	12.3	15.4	21.6
Qom .....	37.7	24.2	22.6	16.5	12.4	26.8
Karaj.....	37.2	21	18.2	11.8	15.3	20.3
Kerman .....	35.6	27	23.2	15	21	23.2
Kermanshah.....	32.2	25.7	19.4	11.5	17.7	21.8
Gorgan.....	41	29.6	31	17.2	22.4	25.6
Mashhad .....	39	22.7	22.3	14.2	21.1	22.3
Hamedan .....	28.7	21	17	5.4	10.5	14.8
Yasuj .....	30	24.5	20	14.4	15.4	21.2
Yazd .....	37.2	25.6	25.4	14.8	22.6	25.8

Source: I. R. I. Meteorological Organization.



**1.9. ABSOLUTE MINIMUM TEMPERATURE IN CAPITALS OF OSTANS BY MONTH  
THE YEAR 1392**

(°c)

Capital of Ostan	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	1.4	3	10.2	15.4	16	11.2
Ardebil .....	-4.2	-3	19	5.6	8.2	7.6
Orumiyeh .....	-3.4	-1.8	7	10.8	11.4	6.8
Esfahan .....	2.8	4.8	11.8	19	16.8	14.2
Ahva .....	11.6	14.4	23.4	27	25.4	20.8
Ilam .....	-0.6	3.2	12	15	17	13
Bojnurd .....	-2	1.4	9	15	10.2	12.4
Bandar Abbas .....	15.6	19.7	22.3	28	28.8	27
Bushehr.....	12.6	16.6	22.6	24.2	26.4	24.6
Birjand .....	2.5	4.5	9.1	14.7	11	7.2
Tabriz .....	-1.6	2.4	7.2	12	16	12.4
Tehran.....	6.2	6.4	13.4	19	20	19
Khorramabad.....	2.4	3.2	10.6	13.6	14.6	9.4
Rasht .....	4	4.2	14.2	16.6	18.4	17.2
Zahedan .....	4.5	10.2	13.2	16.5	14.4	11.7
Zanjan .....	-3.8	-2.6	4.4	6.2	11	6.4
Sari .....	6.8	8	13.6	19.4	19.4	18.8
Semnan .....	7.6	8	17	21	19	18.6
Sanandaj .....	-2.8	0.6	7.4	12.6	11.1	6.6
Shahr-e-Kord .....	-6.8	-4	0.4	5.4	6.4	2.8
Shiraz .....	3.4	5.8	12.4	16.4	17.2	12.6
Qazvin .....	0.4	-0.4	8.2	13.6	14.2	11
Qom .....	3.4	6	14	18.4	17.8	15.3
Karaj.....	2.4	0.2	6.8	13.6	14.8	14
Kerman .....	0.4	5	11	13.4	9.8	10
Kermanshah.....	-2.3	0.2	8.7	13.1	13	9.5
Gorgan.....	2.8	6	13.6	18.6	16.8	17.6
Mashhad .....	1.3	5	11.6	18.4	14.9	11.6
Hamedan .....	-3.5	-2.4	5.3	11.5	11.6	6.4
Yasuj .....	0.8	2.6	8	13.6	14.8	10
Yazd .....	4.4	12	17.4	23	19	18.4

**1. 9. ABSOLUTE MINIMUM TEMPERATURE IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1392 (continued)**

Capital of Ostan	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	2	-0.6	-8	-22	-14.2	-2.6
Ardebil .....	-3.6	-2.6	-18.6	-20.6	-23	-6.6
Orumiyeh .....	0	-1	-14.8	-17.6	-12.8	-4.2
Esfahan .....	6.8	0.8	-7.6	-13.6	-7.8	-2.8
Ahva .....	26.4	11.2	1.2	2.6	3	8.2
Ilam .....	5	3.4	-5.6	-3.2	-5	0.6
Bojnurd .....	2.2	-5	-7.6	-10.8	-17.6	-6
Bandar Abbas .....	21.1	14.4	10.4	4.3	8.5	12
Bushehr.....	17	15	8.6	5	7	9.8
Birjand .....	5.3	-2.4	-7.8	-14.2	-10.2	-6.9
Tabriz .....	1.8	0.8	-15.4	-18	-12.6	-2.4
Tehran.....	8.5	-2.2	-3.2	-2.2	-7.6	0.8
Khorramabad.....	1.8	1.2	-4.6	-7	-7.6	-1.8
Rasht .....	10	7.8	-0.6	0	-8.6	0.8
Zahedan .....	9	1.2	-5.6	-13	-7.9	-3.1
Zanjan .....	-2	-1.6	-15.2	-18.6	-14.8	-5
Sari .....	10.8	7.4	0.4	-0.4	-5.6	2
Semnan .....	9.4	6.2	-3.4	-5	-8.4	1
Sanandaj .....	0	-1.2	-8.6	-11.4	-12.5	-4.2
Shahr-e-Kord .....	-3.4	-6.6	-11	-28.6	-22.1	-7.7
Shiraz .....	5	4.2	-3	-5.8	-4.6	-1.6
Qazvin .....	1	1.6	-6.8	-8.4	-10.7	-2.4
Qom .....	7.1	1.9	-4.9	-6.7	-8.1	-1.8
Karaj.....	5.2	2	-5	-7.4	-12	-2.6
Kerman .....	5	-2.2	-8.2	-20.8	-8.8	-3.6
Kermanshah.....	1.2	-0.6	-6.5	-7.8	-13.8	-4.8
Gorgan.....	10.2	4.4	-0.8	-3	-7.4	-0.8
Mashhad .....	5.2	-3.5	-5.2	-9	-17.4	-3.6
Hamedan .....	-2.4	-2.9	-16.7	-23.4	-21.7	-5.6
Yasuj .....	2.4	0	-4.4	-13.6	-9.5	-4.6
Yazd .....	12.2	5.9	-4	-5.2	-10.1	2.7

Source: I. R. I. Meteorological Organization.

### 1. 10. MONTHLY AVERAGE TEMPERATURE IN CAPITALS OF OSTANS, THE YEAR 1392 (°c)

Capital of Ostan	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	13.4	15.4	22.8	28.1	28	24.4
Ardebil .....	9.6	11.2	16.1	17.5	17.3	18.3
Orumiyeh .....	11.1	13.5	18.9	23.1	22.7	20.4
Esfahan .....	15.6	18.2	26	30	30.2	26
Ahva .....	25.3	27.6	34.8	38.3	37	35.1
Ilam .....	14.6	16.3	23.6	29	29.4	25.6
Bojnurd .....	11.9	15.2	22.2	24.9	24.4	23.7
Bandar Abbas .....	25.7	28.4	32.1	33.5	33.5	32.2
Bushehr.....	24	26.7	30.1	33.3	33.3	32.7
Birjand .....	15.4	19.5	26.7	28.2	27.7	24
Tabriz .....	12.3	14.8	21.5	26	26	23.7
Tehran.....	17.6	19.8	26.7	30.1	30	28.9
Khorramabad.....	14.9	17.1	25.2	30.5	28.5	25.2
Rasht .....	14.2	18.4	23.5	25.4	24.3	24.5
Zahedan .....	18	23.2	28.4	29	29	25.4
Zanjan .....	10.6	12.7	19	22.3	23.2	21.5
Sari .....	15.7	19.6	24.5	27.2	26.2	26.7
Semnan .....	18.2	21.4	28.5	31.8	31.9	29.6
Sanandaj .....	12.5	15.4	21.6	27.4	29.7	23.3
Shahr-e-Kord .....	9.3	11.2	17.7	23	23.1	19
Shiraz .....	15.6	18.3	26.1	29.5	29.9	26.1
Qazvin .....	13.6	15.7	22.6	25.9	25.5	24.5
Qom .....	18.4	21.5	28.1	32.1	31.8	29.1
Karaj.....	15.4	16.7	23.6	26.6	26.3	25.4
Kerman .....	15.1	19.1	26.4	28.2	27.5	23.6
Kermanshah.....	13.4	15.1	23.3	29.1	28.9	25
Gorgan.....	14.7	19.3	25.4	28	27.1	27.6
Mashhad .....	13.6	18.6	25	27.8	27.4	24.9
Hamedan .....	11.7	13.9	22.2	27.8	27.1	23.2
Yasuj .....	13	14.8	22.4	26.8	26.4	23.4
Yazd .....	17.4	20	30.2	33.5	33.4	29.4

**1. 10. MONTHLY AVERAGE TEMPERATURE IN CAPITALS OF OSTANS, THE YEAR 1392**  
(continued) (°C)

Capital of Ostan	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	17.9	9.1	5.2	-4.3	-0.1	8.6
Ardebil .....	12.9	6.6	0.9	-4.7	-0.2	5.6
Orumiyeh .....	13.4	8.5	6.9	-6.4	0.4	7.5
Esfahan .....	20.4	11.8	7.8	0.1	4	11
Ahva .....	27.5	21.8	15.6	11.6	14	19.8
Illam .....	19	12.9	7.7	4.9	5.6	10.4
Bojnurd .....	16.5	8.4	4.7	0.6	1.4	7
Bandar Abbas .....	30.4	25.4	21.2	15.7	17.6	21.5
Bushehr.....	27.4	23.5	18.5	14.1	15.6	20.4
Birjand .....	21.9	12.3	8.9	1.2	4.7	10.1
Tabriz .....	15.7	9.6	0.2	-6	0.6	8
Tehran.....	21.7	3.6	7.7	3.6	5.2	11.7
Khorramabad .....	19	12.2	7.3	3	5.3	10.6
Rasht .....	18.8	14	9.2	7.8	5.7	10.2
Zahedan .....	22.8	14.1	10.9	2.8	6.1	12.7
Zanjan .....	14	7.8	1.7	-4.5	-0.5	6.4
Sari .....	21.9	15.6	11.5	8	7.2	10.9
Semnan .....	22.6	14	7.5	2.8	5.4	11.6
Sanandaj .....	16.7	10.1	4.6	-0.3	2	8.3
Shahr-e-Kord .....	13.1	7.9	3.7	-5.9	-3.1	8.2
Shiraz .....	20.3	14.3	9.7	3.3	7	11
Qazvin .....	17.4	9.8	4.3	0.9	2.8	9
Qom .....	21.9	13.3	8.1	3.7	6.3	12.5
Karaj.....	18.9	11.3	6	1.3	3.6	9.6
Kerman .....	20.7	12.7	8.8	0.7	4.7	10.2
Kermanshah.....	17.8	11.3	6	0.9	2.4	9
Gorgan.....	22.2	15.3	10.3	6.8	6.3	10.6
Mashhad .....	19.2	10.2	6.3	2.2	2.7	7.9
Hamedan .....	15.8	7.7	2.4	-7.1	-3.4	6.7
Yasuj .....	17.8	11.4	7.1	0.3	3.4	8.9
Yazd .....	24	15.2	10.6	3.3	7	14.6

Source: I.R. I. Meteorological Organization.

## 1. 11. ANNUAL PRECIPITATION IN CAPITALS OF OSTANS

(mm)

Capital of Ostan	1375	1380	1385	1388	1389	1390	1391	1392
Arak .....	303	260	283	322	262	199	289	264
Ardebil .....	347	234	237	296	237	259	282	268
Orumiyeh .....	263	228	372	300	342	334	317	241
Esfahan .....	67	94	220	179	98	150	222	157
Ahva .....	152	235	184	186	173	89	210	238
Ilam .....	578	598	555	477	473	361	455	664
Bojnurd .....	172	176	241	282	232	209	205	116
Bandar Abbas .....	167	85	277	186	99	58	84	272
Bushehr.....	217	488	224	156	145	124	201	325
Birjand .....	102	145	135	233	83	95	162	114
Tabriz .....	259	210	129	233	180	272	245	226
Tehran.....	156	192	227	238	213	316	215	82
Khorramabad .....	428	440	510	475	415	286	382	434
Rasht .....	1015	1262	1476	1088	1127	1637	1442	1325
Zahedan .....	73	14	55	99	99	47	53	108
Zanjan .....	249	232	308	325	233	366	392	290
Sari .....	000	591	684	955	547	919	855	741
Semnan .....	128	73	177	141	105	176	133	80
Sanandaj .....	413	310	449	414	311	373	306	319
Shahr-e-Kord .....	258	334	413	420	274	240	386	324
Shiraz .....	202	317	305	270	239	274	305	381
Qazvin .....	265	232	325	338	353	424	315	250
Qom .....	78	125	111	165	87	123	150	82
Karaj.....	290	351	302	285	295	351	290	134
Kerman .....	123	119	134	78	119	108	119	169
Kermanshah.....	396	357	430	415	342	415	317	409
Gorgan.....	477	468	522	649	360	724	676	387
Mashhad .....	170	153	223	277	156	254	282	141
Hamedan .....	213	225	283	396	301	313	230	310
Yasuj .....	474	1126	777	561	769	661	826	648
Yazd .....	29	60	44	45	36	22	77	64

Source: I.R. I. Meteorological Organization.

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

Ostan	1380	1385	1388	1389	1390	1391	1392	Long term
<b>Total country</b> .....	<b>195. 98</b>	<b>147. 68</b>	<b>249. 68</b>	<b>201. 69</b>	<b>205. 92</b>	<b>226. 3</b>	<b>219. 6</b>	<b>234. 8</b>
East Azarbayejan .....	206. 66	204. 80	287. 85	253. 36	295. 60	308. 6	245. 8	287. 9
West Azarbayejan .....	278. 78	289. 83	374. 10	334. 72	407. 57	408. 3	311. 9	377. 4
Ardebil.....	291. 21	195. 15	365. 61	341. 60	378. 85	368. 1	294. 6	335
Esfahan .....	136. 10	127. 9	195. 20	145. 77	144. 56	216. 3	176. 6	173. 1
Alborz.....	<sup>(1)</sup> 000	<sup>(1)</sup> 000	<sup>(1)</sup> 000	<sup>(1)</sup> 000	<sup>(1)</sup> 000	332. 6	191. 9	332. 1
Ilam .....	432. 08	245. 55	386. 53	365. 15	262. 11	355. 7	515. 8	433. 2
Bushehr .....	457. 87	174. 04	280. 00	182. 08	124. 28	207. 6	362. 3	274. 9
Tehran .....	<sup>(1)</sup> 235. 47	<sup>(1)</sup> 185. 01	<sup>(1)</sup> 290. 00	<sup>(1)</sup> 283. 77	<sup>(1)</sup> 380. 99	324. 3	177. 1	332. 4
Chaharmahal & Bakhtiyari..	670. 53	432. 25	647. 53	540. 78	488. 99	687. 9	548. 8	661. 9
South Khorasan .....	<sup>(2)</sup> 000	36. 53	146. 25	81. 29	99. 10	110. 6	102. 2	121. 3
Khorasan-e-Razavi .....	<sup>(2)</sup> 114. 95	86. 85	232. 69	163. 17	198. 34	217. 6	117. 7	208. 4
North Khorasan .....	<sup>(2)</sup> 000	185. 51	339. 32	273. 00	300. 66	312. 4	174. 8	304. 6
Khuzestan .....	360. 70	195. 36	293. 75	261. 39	179. 27	326. 7	319. 3	322. 6
Zanjan .....	237. 74	211. 37	358. 87	323. 32	383. 55	370	287. 3	321. 4
Semnan .....	110. 04	105. 22	142. 47	117. 20	156. 36	174. 3	72. 1	150. 7
Sistan & Baluchestan .....	31. 95	48. 78	137. 08	107. 18	74. 10	72	150. 6	108. 2
Fars .....	305. 62	205. 79	317. 05	260. 11	226. 74	235. 6	294. 1	294. 7
Qazvin .....	330. 04	266. 95	361. 22	378. 05	422. 24	335. 8	282. 7	337. 8
Qom .....	107. 95	99. 01	170. 40	115. 92	141. 74	177	103. 2	175. 5
Kordestan .....	399. 62	309. 74	456. 10	407. 02	472. 39	410. 3	395. 5	467. 9
Kerman .....	93. 08	58. 79	139. 67	112. 63	79. 30	103. 4	172. 4	123. 9
Kermanshah .....	370. 12	285. 22	469. 26	391. 59	432. 58	372. 6	455. 3	451. 8
Kohgiluyeh & Boyerahmad	712. 05	286. 45	553. 75	488. 65	426. 15	577. 6	496. 8	539. 4
Golestan .....	382. 98	302. 73	532. 67	379. 66	567. 95	652. 2	345	484. 6
Gilan .....	1057. 41	897. 20	841. 07	916. 54	1231. 13	907. 5	912. 6	960
Lorestan .....	405. 97	336. 20	460. 64	414. 99	331. 13	418. 8	432. 7	450. 6
Mazandaran .....	774. 84	570. 26	751. 63	585. 17	909. 19	749. 4	604. 8	709. 7
Markazi .....	193. 89	190. 95	351. 18	252. 87	238. 27	294. 1	265. 2	291. 1
Hormozgan .....	105. 33	93. 91	197. 52	121. 08	73. 51	98. 6	199. 7	153. 5
Hamedan .....	271. 51	248. 53	401. 94	356. 54	350. 89	270. 2	284. 5	351. 7
Yazd .....	76. 19	46. 52	94. 40	57. 89	60. 31	102	83. 5	77. 1

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. 13. MONTHLY PRECIPITATION IN CAPITALS OF OSTANS, THE YEAR 1392 (mm)**

Capital of Ostan	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	32.4	10.1	0.7	0.5	0	0
Ardebil .....	10.7	48.1	57.3	0.7	16	6.4
Orumiyeh .....	21	35.2	29.9	0	0.1	0
Esfahan .....	17.7	18.7	0	0	0.3	0
Ahva .....	1.9	44.9	0	0	0	0
Ilam .....	6	56.5	0	0	0	0
Bojnurd .....	19.9	23.2	16.3	4.9	2.6	0.01
Bandar Abbas .....	36.9	0.1	0	0	0	0.01
Bushehr .....	1.7	22	0	0	0	0
Birjand .....	32.7	0.2	0.1	0	12	0
Tabriz .....	38.1	34.9	14.7	4.7	0	0
Tehran .....	8.4	11.4	1.8	0.01	0	0
Khorramabad .....	29.8	72.4	0.2	0	0	0
Rasht .....	27.9	34.8	6.4	7.3	115.1	66.7
Zahedan .....	31.6	0.9	0.1	0.01	4.4	0
Zanjan .....	13.9	48.3	6.1	0.01	2	3
Sari .....	18.2	58.8	7.6	4.8	49.8	26.3
Semnan .....	7.8	8.6	0.1	0	0.2	0
Sanandaj .....	27.5	72.2	0.2	0	0	0
Shahr-e-Kord .....	47.3	17.9	0	0	0	0
Shiraz .....	99.9	41.9	0	0	3.5	0
Qazvin .....	12.6	47.9	23	0	0	0.4
Qom .....	7.7	8.4	0	0	0	0
Karaj .....	10.6	16.3	5.6	0.3	2.5	1.6
Kerman .....	48.2	10.5	0	0	7.1	0
Kermanshah .....	10/7	69/5	0/2	0	0	0
Gorgan .....	37/2	53/7	7/1	0/2	25/1	0/01
Mashhad .....	18/6	23/5	14/9	0/01	2/4	0
Hamedan .....	24/5	22/5	1/3	0	0	0
Yasuj .....	40/3	52	0	0	2/5	0
Yazd .....	14/4	5/8	0	0/01	0/01	0

**1. 13. MONTHLY PRECIPITATION IN CAPITALS OF OSTANS, THE YEAR 1392 (continued)****(mm)**

Capital of Ostan	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	0	55.5	49.8	39.6	14.6	61.1
Ardebil .....	6.3	36.2	45.5	0.6	14.8	25.5
Orumiyeh .....	0.2	47.8	57.3	3	32	14.9
Esfahan .....	0	20	0.4	34.2	5.5	60.1
Ahva .....	0	53.3	9	88	4.7	35.7
Ilam .....	0	163.7	103.3	89.9	151.3	93.1
Bojnurd .....	0.6	3.5	20.5	5.8	7.5	10.9
Bandar Abbas .....	0	8.1	0.5	85.3	20.3	121.2
Bushehr .....	0	129.4	0.2	163.4	3.5	4.6
Birjand .....	0.01	14.3	6.7	5.1	14.3	29
Tabriz .....	5.7	33.6	34.5	0.5	23.9	35
Tehran .....	0	1.9	29	1.9	14.6	13
Khorramabad .....	0	76.2	65.3	80.8	40.8	68.4
Rasht .....	367	314.2	156.7	73.1	96.3	59.4
Zahedan .....	0.1	1.9	3.1	26.1	4.5	35.7
Zanjan .....	0.4	68.6	80.7	4.8	16.2	45.5
Sari .....	241.8	108.3	140.7	7.3	48.2	29.1
Semnan .....	0	34.9	3.9	5.3	0.2	18.7
Sanandaj .....	0	60.6	84	8.4	30.6	35.3
Shahr-e-Kord .....	0	53.6	58.3	50.7	16	80.5
Shiraz .....	0	101.2	1.1	94.7	29.2	9
Qazvin .....	0	66	66.6	1	10	22.6
Qom .....	0	23.4	12.7	8.3	11.3	10.2
Karaj .....	0	35.8	32.9	1.7	11.5	15
Kerman .....	0	3.2	11.1	41.3	21.3	25.9
Kermanshah .....	10/7	69/5	0/2	0	0	0
Gorgan .....	37/2	53/7	7/1	0/2	25/1	0/01
Mashhad .....	18/6	23/5	14/9	0/01	2/4	0
Hamedan .....	24/5	22/5	1/3	0	0	0
Yasuj .....	40/3	52	0	0	2/5	0
Yazd .....	14/4	5/8	0	0/01	0/01	0

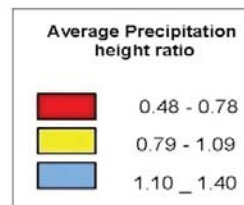
Source: I. R. I. Meteorological Organization.



**1.4. AVERAGE PRECIPITATION HEIGHT RATIO IN OSTANS  
IN THE YEAR 1392 TO LONG\_TERM AVERAGE**



For Data See Tabel 1.12



**1. 14. HOURS OF BRIGHT SUNSHINE IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1392 (hour)**

Capital of Ostan	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	255. 5	258. 7	357. 5	372. 5	359. 1	352. 2
Ardebil .....	214. 5	247	280. 1	346. 9	253. 9	275
Orumiyeh .....	269. 9	257. 7	342. 3	392. 6	366. 3	342. 7
Esfahan .....	273. 8	308. 3	377. 6	385. 3	359. 5	339. 5
Ahva .....	264. 5	280. 3	352. 4	374	362. 7	338. 6
Ilam .....	269. 8	214. 6	306. 2	378. 3	355. 4	339. 1
Bojnurd .....	237. 9	287	315. 6	359. 5	315. 4	325. 5
Bandar Abbas .....	245. 5	275. 4	306. 8	298. 9	253. 6	259. 7
Bushehr .....	254	276	336. 2	350. 4	314. 9	306. 5
Birjand .....	262. 2	310	355. 9	376. 5	354. 7	356
Tabriz .....	252. 9	251. 3	327. 7	379. 7	356. 5	340. 2
Tehran .....	256	264	344	368	349	324
Khorramabad .....	270. 5	228. 2	351. 2	382	367. 7	335. 4
Rasht .....	105. 1	225. 4	261. 3	270	110. 2	127. 9
Zahedan .....	231. 6	299. 1	329. 7	346. 4	290. 2	332. 8
Zanjan .....	260. 9	269. 6	353. 8	374. 4	371. 5	337. 7
Sari .....	147. 4	252. 6	243. 3	259. 6	136. 8	158. 6
Semnan .....	255. 8	304. 5	367. 5	361. 8	338. 1	318. 5
Sanandaj .....	262. 4	235. 2	342. 9	393. 7	366. 7	339. 1
Shahr-e-Kord .....	261. 4	271. 2	377. 3	371. 2	358. 9	310. 2
Shiraz .....	273. 1	301. 1	370	366. 1	337. 8	320. 1
Qazvin .....	247. 3	267. 6	341. 6	375. 1	355. 7	324
Qom .....	261. 2	294	356. 7	376. 2	355. 9	324. 8
Karaj .....	243. 1	239	340	364	339	307
Kerman .....	250. 5	319. 4	367. 3	373. 5	328. 2	342. 5
Kermanshah .....	226	165. 3	286. 4	360. 6	333. 9	315. 5
Gorgan .....	160	258. 1	250. 3	295. 3	181. 9	242. 2
Mashhad .....	232. 7	303. 1	341. 6	363. 5	350. 2	343. 8
Hamedan .....	256	248. 2	350. 9	382. 2	361. 4	325. 3
Yasuj .....	282. 6	294. 6	377. 6	376. 1	342. 7	324. 6
Yazd .....	272. 3	326. 1	372	376. 8	342. 9	345. 9

**1. 14. HOURS OF BRIGHT SUNSHINE IN CAPITALS OF OSTANS BY MONTH, THE YEAR  
1392 (continued) (hour)**

Capital of Ostan	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	308. 6	150. 3	170. 3	86. 8	178. 2	199
Ardebil .....	210. 1	127. 2	140. 2	157. 2	197. 6	141. 1
Orumiyeh .....	295. 4	178. 4	132. 9	102	186. 4	192. 2
Esfahan .....	315. 5	186. 8	224	149. 1	228. 6	220. 2
Ahva .....	312. 5	177. 4	177. 9	158. 8	216. 5	217. 5
Ilam .....	311. 5	178. 6	117	165. 5	213. 3	196. 6
Bojnurd .....	259. 4	192. 9	118	152	202. 3	159. 7
Bandar Abbas .....	281. 6	253. 5	257. 8	218	236. 2	231. 2
Bushehr.....	301	216. 8	226	201. 2	234. 3	233. 8
Birjand .....	298. 6	227. 2	238. 7	198. 9	229. 4	236
Tabriz .....	279. 7	182. 5	97. 5	96. 1	207. 5	188. 3
Tehran.....	285	165	167	165	193	193
Khorramabad .....	311	160. 8	162. 4	183. 6	204	187
Rasht .....	121. 6	101. 3	85	117. 7	81. 9	70. 8
Zahedan .....	300	262. 5	244. 6	218. 7	246. 4	232. 8
Zanjan .....	297. 1	137. 6	112. 6	137. 5	174. 5	176. 9
Sari .....	168. 2	127. 8	126. 2	156. 9	144. 9	101. 2
Semnan .....	305. 9	189. 5	178. 9	154. 4	233. 1	193. 1
Sanandaj .....	301. 7	164. 5	145. 9	137. 9	195	192. 1
Shahr-e-Kord .....	314. 4	182. 2	203. 3	160. 2	220. 9	213
Shiraz .....	310. 3	215. 3	245. 7	169. 6	249. 1	232. 9
Qazvin .....	288. 6	150. 3	153. 4	148. 1	188. 2	177. 8
Qom .....	398	176. 5	177. 3	185. 3	207. 4	201. 7
Karaj.....	291	141	162	178	191	178. 4
Kerman .....	308. 5	252. 3	251. 9	203. 4	237. 9	229. 6
Kermanshah.....	291. 1	154. 7	140. 7	161. 5	197	176. 6
Gorgan .....	198. 1	152. 4	136. 5	168. 4	155	118. 9
Mashhad .....	279. 4	189. 7	136. 6	159. 1	208. 9	136. 3
Hamedan .....	309. 9	163. 5	158. 1	102. 7	168. 8	174. 8
Yasuj .....	319. 7	187. 2	197. 6	160	225	221. 1
Yazd .....	306. 6	236	217. 8	194. 4	241. 1	237. 3

Source: I. R. I. Meteorological Organization.

**1. 15. MAXIMUM WIND SPEED IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1392**  
(mps)

Capital of Ostan	Farvardin	Ordibehesht	Khordad	Tir	Mordad	Shahrivar
Arak .....	11	10	10	8	8	9
Ardebil .....	23	15	19	17	14	14
Orumiyeh .....	16	11	22	10	9	14
Esfahan .....	15	15	12	9	12	9
Ahva.....	8	8	8	8	8	8
Ilam .....	11	18	20	10	10	10
Bojnurd .....	12	10	14	10	13	10
Bandar Abbas .....	14	12	8	9	8	7
Bushehr .....	20	15	15	9	10	10
Birjand .....	12	10	11	16	12	12
Tabriz .....	18	16	12	15	14	15
Tehran .....	15	20	15	12	8	13
Khorramabad .....	10	11	11	11	13	11
Rasht .....	8	9	10	6	8	5
Zahedan .....	24	21	17	14	14	14
Zanjan .....	11	12	10	11	11	8
Sari .....	15	17	10	7	6	6
Semnan .....	9	15	12	11	10	9
Sanandaj .....	13	11	10	8	9	10
Shahr-e-Kord .....	15	17	11	10	10	9
Shiraz .....	11	11	8	9	9	9
Qazvin .....	14	20	17	14	16	10
Qom .....	20	23	26	15	16	14
Karaj.....	16	14	25	11	9	9
Kerman .....	18	15	14	15	13	11
Kermanshah .....	11	16	10	9	9	11
Gorgan .....	24	20	17	15	12	12
Mashhad .....	10	14	10	12	11	10
Hamedan .....	13	12	12	9	11	10
Yasuj .....	11	15	8	10	9	8
Yazd .....	22	20	15	15	17	13

**1. 15. MAXIMUM WIND SPEED IN CAPITALS OF OSTANS BY MONTH, THE YEAR 1392**  
(continued) (mps)

Capital of Ostan	Mehr	Aban	Azar	Dey	Bahman	Esfand
Arak .....	9	13	10	4	9	13
Ardebil .....	20	15	22	18	17	29
Orumiyeh .....	20	8	13	6	9	16
Esfahan .....	12	12	15	6	10	12
Ahva.....	9	10	11	9	11	35
Ilam .....	8	10	10	11	16	10
Bojnurd .....	17	11	18	10	14	15
Bandar Abbas .....	7	12	12	13	13	12
Bushehr.....	12	19	15	12	11	16
Birjand .....	10	10	11	9	14	14
Tabriz .....	18	13	15	9	12	18
Tehran.....	12	11	14	11	16	13
Khorramabad .....	10	11	14	9	10	11
Rasht .....	9	11	13	7	14	12
Zahedan .....	16	15	17	11	12	21
Zanjan .....	13	10	12	12	10	9
Sari .....	7	7	15	6	10	6
Semnan .....	11	7	13	4	10	9
Sanandaj .....	15	9	11	7	11	11
Shahr-e-Kord .....	14	12	20	4	10	24
Shiraz .....	8	9	10	8	8	12
Qazvin .....	15	8	12	7	7	13
Qom .....	15	17	19	13	15	17
Karaj.....	10	9	10	10	12	14
Kerman .....	19	16	17	15	15	22
Kermanshah.....	9	10	10	9	15	10
Gorgan .....	15	9	15	11	12	15
Mashhad .....	10	8	12	8	13	12
Hamedan .....	12	11	11	7	13	13
Yasuj .....	9	8	9	7	9	9
Yazd .....	12	18	13	12	13	21

Source: I. R. I. Meteorological Organization.

**1. 16. AREA AND OVERLAND FLOW COEFFICIENT OF MAIN BASINS**

Main basin	Area (1000 km2)	Coefficient of overland flow, 43-year average (1347-1391)( %)
<b>Total country</b> .....	<b>1622.6</b>	<b>22. 2</b>
Caspian Sea .....	174.6	22. 9
Persian Gulf and Oman Sea .....	424.5	31. 4
Lake Orumiyeh .....	51.8	30. 1
Central Plateau .....	824.4	10. 1
Eastern Border .....	103.2	14. 3
Qareh Qum .....	44.2	31. 4

Source: Ministry of Energy.

**1. 17. VOLUME OF PRECIPITATION IN THE MAIN BASINS****(bln m3)**

Aquatic year	Total country	Caspian Sea	Persian Gulf & Oman Sea	Lake Orumiyeh	Central Plateau	Eastern Border	Qareh Qum
Average 43-year ( from the years 1347-48 through 1389-91) .....	401. 725	73. 947	155. 071	17. 613	134. 598	10. 796	9. 701
1374-75 .....	511. 800	68. 410	212. 650	16. 000	189. 200	19. 490	6. 040
1379-80.....	229. 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
1386-87.....	227. 973	52. 985	80. 709	10. 048	71. 886	7. 091	5. 255
1387-88 .....	352. 384	75. 312	107. 879	15. 514	128. 816	13. 664	11. 200
1388-89 .....	390. 763	78. 210	151. 606	20. 055	121. 485	10. 37	9. 036
1389-90 .....	328. 184	66. 913	120. 200	15. 405	110. 723	8. 331	6. 613
1390-91 .....	337.197	90.121	95.865	15.393	116.623	8.226	10.969
<b>1391-92 .....</b>	<b>393. 276</b>	<b>70. 789</b>	<b>148. 588</b>	<b>17. 105</b>	<b>136. 064</b>	<b>11. 58</b>	<b>9. 15</b>

Source: Ministry of Energy.

**1. 18. ESTIMATED VOLUME OF OVERLAND FLOWS OF THE MAIN BASINS (bln m3)**

Aquatic year	Total country	Caspian Sea	Persian Gulf & Oman Sea	Lake Orumiyeh	Central Plateau	Eastern Border & Qareh Qum
Average 43-year ( from the years 1347-48 through 1390-91). .....	89. 07	16. 94	48. 72	5. 31	13. 53	4. 57
1374-75.....	109. 560	19. 360	59. 890	4. 770	22. 200	3. 340
1379-80.....	37. 640	6. 540	23. 560	1. 270	4. 520	1. 750
1384-85 .....	90. 317	11. 148	62. 297	3. 701	11. 458	1. 713
1386-87.....	41. 595	7. 172	24. 695	1. 680	6. 291	1. 757
1387-88 .....	37.600	7. 760	18. 830	2. 050	7. 240	1. 720
1388-89 .....	52. 070	10. 410	27. 520	3. 140	9. 290	1. 710
1389-90 .....	44. 187	7. 904	23. 290	2. 947	8. 718	1. 327
1390-91 .....	50. 891	14. 188	20. 04	4. 184	10. 731	1. 749
<b>1391-92.....</b>	<b>49</b>	<b>8. 46</b>	<b>27. 16</b>	<b>3. 03</b>	<b>7. 9</b>	<b>2. 45</b>

Source: Ministry of Energy.

