

IRANIAN AND AFGHAN  
CALENDARS

There are two solar calendars, ancient and modern (Hijra-i-Shamsi), which correspond roughly, i.e., within three or four days, with each other and with the Christian dates given below:

<u>Ancient</u>	<u>Modern</u>	<u>Christian</u>
Farvardin	Hamal (31)	21 March - 20 April
Ardibehisht	Saur (31)	21 April - 21 May
Khurdad	Jauza (31)	22 May - 21 June
Tir	Saratan (32)	22 June - 23 July
Murdad	Asad (31)	24 July - 23 Aug.
Shahriwar	Sumbula (31)	24 Aug. - 23 Sept.
Mihr	Mizan (30)	24 Sept. - 23 Oct.
Aban	Akrab (30)	24 Oct. - 22 Nov.
Azur	Kaur (30)	23 Nov. - 22 Dec.
Dai	Jadi (29)	23 Dec. - 20 Jan.
Bahman	Dalv (30)	21 Jan. - 19 Feb.
Isfandarmuz	Hut (29)	20 Feb. - 20 Mar.

The Hijra-i-Kamari (lunar Hegira year) began originally on June 16, 622, with the months of Muharram, Safar ..... Rajab, Shaban, Ramazan, Shawwal, etc., but the months travel around the year. 32 solar years equal 33 Muhammadan lunar years, so 1 Muharram 1311 was 15th July 1893, difference of 582 rather than 621 years.

The solar Hijra year can be calculated for Iranian and Afghan purposes as follows:

Before March 21	1950 - 622 = 1328
After March 21	1950 - 621 = 1329
Before Dai or Jadi	1329 - 621 = 1950
After Dai or Jadi	1329 - 622 = 1951

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## EQUIVALENTS

### Length

1 in	=	2.54 cm	=	25.4 mm
1 cm	=	0.394 in		
1 ft	=	0.3048 m	=	30.48 cm
1 m	=	3.28 ft	=	1.094 yd
1 yd	=	0.914 m		
1 mi	=	1.61 km	=	5280 ft
1 km	=	0.62 mi	=	3280 ft

### Area

1 sq in	=	6.45 cm <sup>2</sup>		
1 cm <sup>2</sup>	=	0.155 sq in		
1 sq ft	=	0.0929 m <sup>2</sup>		
1 m <sup>2</sup>	=	10.76 sq ft		
1 sq yd	=	0.836 m <sup>2</sup>	=	9 sq ft
1 m <sup>2</sup>	=	1.196 sq yd		
1 acre	=	0.4047 ha (hectares)	=	4047 m <sup>2</sup>
			=	43,560 sq ft = 0.00156 sq mi
1 ha	=	2.47 acres	=	107,639 sq ft = 0.01 km <sup>2</sup>
			=	1,000 m <sup>2</sup> = 0.00386 sq mi
1 sq mi	=	2.59 km <sup>2</sup>	=	259 ha = 640 acres
			=	27,878,400 sq ft = 2,589,998 m <sup>2</sup>
1 km <sup>2</sup>	=	0.386 sq mi	=	247 acres = 100 ha
			=	10,763,900 sq ft = 1,000,000 m <sup>2</sup>



Volume

1 cu in = 16.39 cm<sup>3</sup>  
1 cm<sup>3</sup> = 0.061 cu in  
1 cu ft = 0.0283 m<sup>3</sup> = 1728 cu in  
1 m<sup>3</sup> = 35.314 cu ft  $\approx$  1000 liters  
1 cu yd = 0.7646 m<sup>3</sup> = 27 cu ft  
1 m<sup>3</sup> = 1.308 cu yd  
1 cu ft = 28.316 liters  
1 liter = 0.035315 cu ft = 1.000028 dm<sup>3</sup>  
1 U.S. gallon = 3.785 liters = 231 cu in  
1 liter = 0.264 U.S. gallons = 61.025 cu in  
1 Br gallon = 1.20094 U.S. gallon = 277.42 cu in

1 acre ft = 43,560 cu ft = 1,234 m<sup>3</sup>  
1 cusec day = 1.98 acre ft = 86,400 cu ft  
16 sq mi ft = 5163 cusec days

1 U.S. bushel = 0.352 hectoliters  
1 hectoliter = 2.838 U.S. bushels

Flow

1 cusec = 0.0283 m<sup>3</sup>/sec = 724 acre ft per yr  
1 m<sup>3</sup>/sec = 35.3 cusecs  
1 cusec  $\approx$  60.3 acre ft per month  $\approx$  1.98 acre ft per day

Time

1 year  $\approx$  365 days = 8,760 hours = 525,600 minutes  
= 31,536,000 seconds  
1 day = 1,440 minutes = 86,400 seconds

Mass

1 kilogram = 2.2046 lbs avdp  
1 lb avdp = 0.4536 kg  
1 metric ton = 1000 kg = 2204.6 lbs avdp  
= 1.102 short tons = 0.984 long tons  
1 long ton = 2240 lbs avdp = 1.016 metric tons  
1 short ton = 2000 lbs avdp = 0.907 metric tons

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