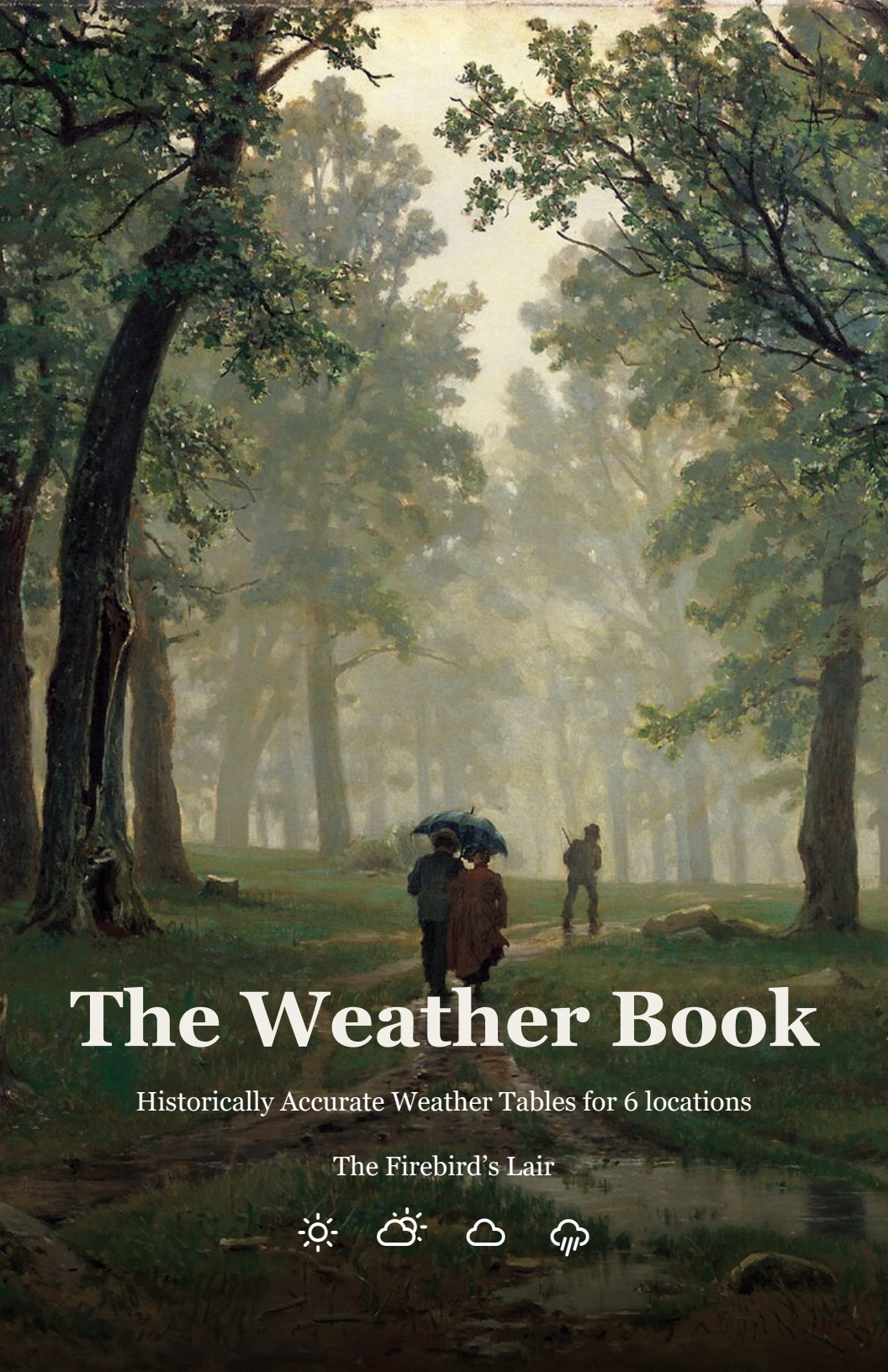




The Weather Book

Historically Accurate Weather Tables for 6 locations

The Firebird's Lair



The Weather Book

Writing & Design

The weather matrices were developed at The Firebird's Lair. Early notes regarding the development of the system, as well as the complete zine and a few additional matrices, are available at thefirebirdslair.com. If you like the matrices, look for the complete version of "The Weather Book", containing 46 locations, available for purchase as a pdf.

Art

On the cover: Rain in an Oak Forest, Iwanowitsch Schischkin, 1891. Colosseum Plate: Veduta dell'Anfiteatro Flavio detto il Colosseo, Giovanni Battista Piranesi, 1776. These works and their photographic reproductions are available in the public domain. Sky pictograms are from the Weather Icons font by Erik Flowers, released under the SIL Open Font License, or modified from these by the author. The maps were made using Earth geometry available from Natural Earth (naturalearthdata.com) which is in the public domain.

Fonts

Georgia and Segoe UI. This zine was typeset using LaTeX.

Data

Underlying data is the ERA5 dataset obtained via the Copernicus Climate Data Store (cds.climate.copernicus.eu). This data is licensed under the CC BY 4.0 license (<https://creativecommons.org/licenses/by/4.0/>).

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By Climate Type

Af	Tropical rainforest	Belém	10
Am	Tropical monsoon	Mumbai	28
BWh	Hot desert	Cairo	14
Cfb	Oceanic	Paris	34
Csa	Mediterranean	Rome	40
Dfb	Warm-summer continental	Moscow	20

What This Book Is

I love RPG weather. Establishing daily weather makes the game feel immersive, like the world is living and would continue to live in the absence of players. In an overland hex crawl (my favorite style of campaign), it gives meaning to the seasons and forces difficult choices—given it is winter in the North, do we chance it and explore those ruins, or remain safe and risk being beaten to the punch? Such choices are myriad in both adventure literature and history: think of the Fellowship’s decision to turn back from Caradhras or Lawrence’s hard march to Aqaba.

But in practice, I find weather difficult to deal with at the table. There is a hard tradeoff between realism and practicality. More realistic systems are also more onerous, requiring several rolls across many tables and often with modifiers based on season. Faster systems need just one roll, but present two challenges. First, there may be no memory effects—today’s weather has no bearing on tomorrow’s—giving the players less to go on when making choices. Second, the generated weather does not correspond to a real place, making it both less intuitive and less immersive. Computer-aided methods, such as looking up historical weather in some location and iterating day by day, are useful but require a computer and some additional legwork. (They also mean the weather is fixed in advance rather than rolled, which is perfectly acceptable but not to my taste.)

The weather matrices here attempt to resolve these issues: they are based on real weather patterns, they require a single roll on a single table, and they have memory effects.

How did I construct these? To begin with, I determined weather patterns for real locations. A legion of scientists have assembled historical weather data (since 1940) into a dataset they denote “ERA5” which compiles (when available) and interpolates (when not) weather data across the globe. I took this data, and for each day, coded the daily weather according to temperature, precipitation, and cloud cover, and determined appropriate seasons. Within these seasons, I determined the probability of each type of weather (e.g., “rainy” or “partly cloudy”) transitioning into any other type of weather (or repeating). This process yields a ‘transition matrix’ showing how the weather evolves. Cleaning up these transition matrices allowed me to produce the weather tables, d100 tables for each season which encode that weather evolution into a game mechanic.

The resulting tables are a close match for historic weather patterns (e.g., matching daily probabilities with 1%) while being easy to use at the table (one roll on one table). This last point has been readily apparent during play. I will give the table to one of my players and have them roll day-by-day, and several of my players have remarked on how easy—even fun!—it has been to generate new weather.

I hope you find these tables useful and enjoyable in your gaming!

How to Use This Book

Each location comes with a cover spread, giving you information about the seasons and how they develop, including daylight and precipitation levels. These are followed by the matrices for that location. For example, here is the Cairo summer matrix. Each entry gives both the temperature (in words) and the cloud cover/precipitation (as an image). See the definitions section.

To use the matrix, you begin by setting the starting weather. This can be done via the shaded column, which is the most common type of weather for that season. (The daily probabilities of each day within the season are stated in the row labels). Next, you determine tomorrow's weather. To do so, roll d100, counting 00/0 as 100, and reference the current column. You transition to the weather in that row. Then the process repeats.

For example, suppose I begin my campaign in my fantasy city of Rhakote, which I decide has similar weather to Cairo. I select Cairo and decide we begin in summer. The first day of the campaign is hot and sunny, because this is the most common weather in Cairo: Summer. After the campaign's first day, I roll to determine the weather on day 2, getting a 05 on d100. This lands in row B, which is warm and sunny; day 2 is therefore warm and sunny. The adventure continues, and when another day passes I now roll on column B (warm and sunny). This time, I roll a 49; this is also on row B, and the weather remains sunny on Day 3. This process continues as we progress through the season.

Cairo: Summer

May 15 – Oct 5

			Today: Roll on this column			
Tomorrow: Move to this row			A	B	C	D
			 Warm	 Warm	 Hot	 Hot
	A	 Warm 2.9%	01-23	01-06	01-05	—
	B	 Warm 29.6%	24-86	07-82	06-19	01-08
	C	 Hot 3.1%	87-89	83	20-36	09-11
	D	 Hot 63.3%	90-100	84-100	37-100	12-100

Changing Seasons

When changing seasons, there are two options. First, I can simply assert a new weather type when the season changes. For example, suppose I began my campaign in Spring on May 1. When my in-game calendar reaches May 15, no roll is made for the day; I declare the weather is hot and sunny, and we move from the Cairo: Spring Table to the Cairo: Summer table. Alternatively, I can define a ‘band’ of days where the season may change, such as May 10-May 20. Then, each day, I check to see if the weather I generate on the Cairo: Spring table is also on the Cairo: Summer table. In this case, the season changes and I move to the new table. If not, I remain on the Cairo: Spring table. For example, if on May 10 I roll on the Cairo: Spring table and obtain a result of warm and sunny, which is on the Cairo: Summer table, then summer has arrived and I jump to column B on the Cairo: Summer table. If I instead roll cool and sunny, which is not possible in Cairo: Summer, then I remain on the Cairo: Spring table. (It may be necessary to force a change in season, as in option 1, if no season change occurs after many days).

Definitions

Temperature

Frigid II	-45 — -20°F
Frigid I	-20 — 0°F
Cold	0 — 35°F
Cool	35 — 55°F
Warm	55 — 80°F
Hot	80 — 100°F

Sky

	Overcast
	Partly Cloudy
	Clear

Precipitation (Daily)

	Rain	0.2–0.8" of rain
	Heavy Rain	over 0.8" of rain
	Snow	0.3–3" of snow

There are a few weather dynamics not captured in the table which may be worth including. First, many locations have large daily temperature swings: for example, in Cairo, daily highs and lows vary by ≈ 20 °F. This can be seen from the “Temperature” panel on the cover page. In such cases, the referee may wish to increase/decrease the temperature by one band at midday or at night (not both). Second, the book does not account for wind or fog. This absence is regrettable, as their inclusion would make for great gaming! However, the data are comparatively poor and they are challenging to include without increasing the complexity of the weather system. I recommend the referee include these conditions based on reference to the daily results—for example, overcast, cool days in Istanbul can have early fog, while the day before heavy rain may have high winds. Third, certain locations have odd, rare weather not represented in the tables: for example, Cairo may develop sandstorms, especially in Winter and Spring. These are noted in the description for each location.

Finally, given the diversity of systems these rules are applicable to, I do not include specific recommendations for rules associated with weather effects.

Belém



Location: 1.30° S, 48.40° W

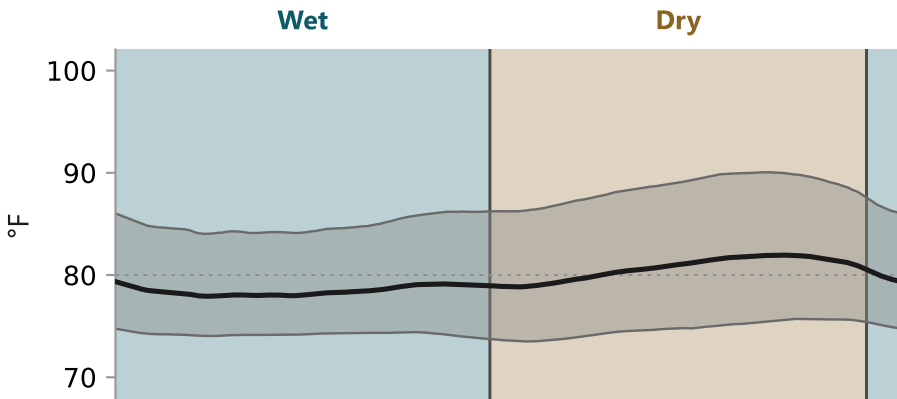
Elevation: 10 m

Climate: Tropical rainforest (Af)

Belém is a port city at the mouth of the Amazon and good for a rain-forest or jungle campaign. It is near the equator and both temperature and daylight vary little. Precipitation is substantial, especially during the wet season where it rains almost daily. There is a daily rhythm to these rains, which tend to peak in the afternoon (2 to 3 pm), trending later (5-9 pm) in June, July, and August. Thunderstorms, winds, and flooding are all common, and thunder is heard on about 160 days yearly, but hurricanes and cyclones do not occur.

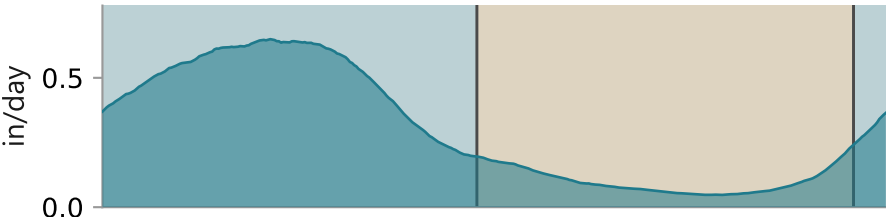
Optional rules: heavy rainfall during the wet season has a 1-in-4 chance of turning into a deluge (>2" of rain). All rainfall has a 1-in-4 chance of developing a significant thunderstorm.

Temperature (line = mean, range = daily low-high)

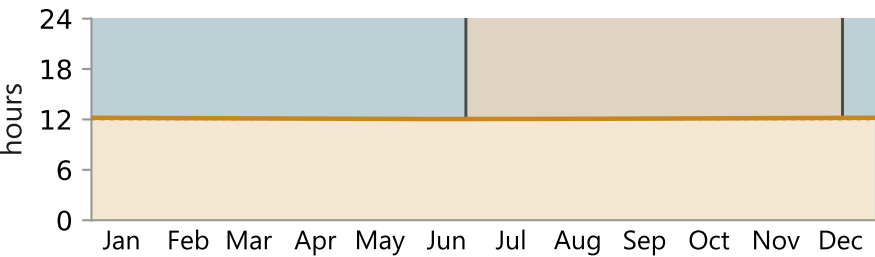


Belém

Precipitation (rain = blue, snow = grey)



Daylight



Season / dates	Mean °F	Rain	Snow	Wet days
Wet Season Dec 16 – Jun 23 (190 days)	78.6	0.48	—	85%
Dry Season Jun 24 – Dec 15 (175 days)	80.7	0.10	—	27%
Annual	79.6	109 in/yr	0.0 in/yr	57%

Belém: Wet Season

Dec 16 – Jun 23

Today: Roll on this column

	A	B	C	D	E	F
	Hot	Hot	Hot	Hot	Hot	Hot
A	Hot 14.3%	01-30	01-13	01-06	01-14	01-03
B	Hot 52.7%	31-72	14-77	07-65	15-51	04-05
C	Hot 15.8%	73-77	78-95	66-99	52-55	–
D	Hot 10.9%	78-93	96-98	–	35-78	06-63
E	Hot 4.8%	94-99	99-100	100	80-98	64-75
F	Hot 1.3%	100	–	94-100	99-100	76-100

Tomorrow: Move to this row

Belém: Dry Season

Jun 24 – Dec 15

Today: Roll on this column

	A	B	C	D	E	
	 Hot	 Hot	 Hot	 Hot	 Hot	
A	 Hot 18.3%	01-43	01-32	01-14	01-11	01-04
B	 Hot 7.8%	44-53	33-70	15-18	12-25	05
C	 Hot 46.9%	54-92	71-91	19-74	26-72	06-50
D	 Hot 6.7%	93-95	92-99	75-81	73-92	51-54
E	 Hot 19.6%	96-100	100	82-100	93-100	55-100

Tomorrow: Move to this row

Cairo



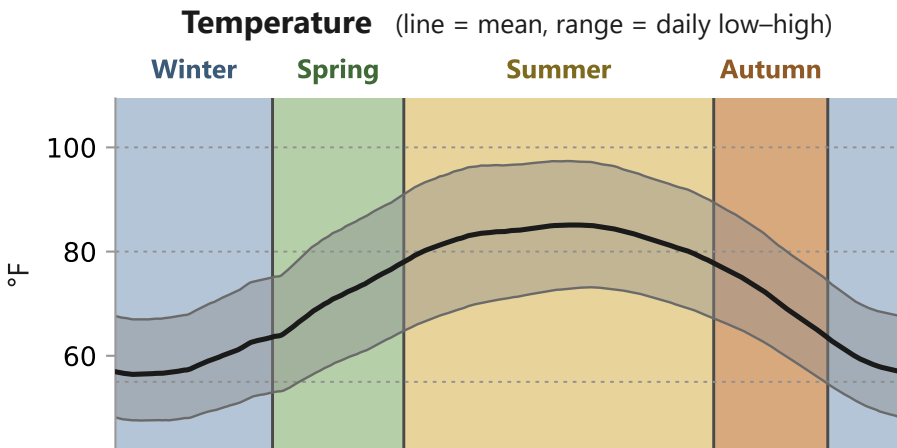
Location: 30.05° N, 31.19° E

Elevation: 14 m

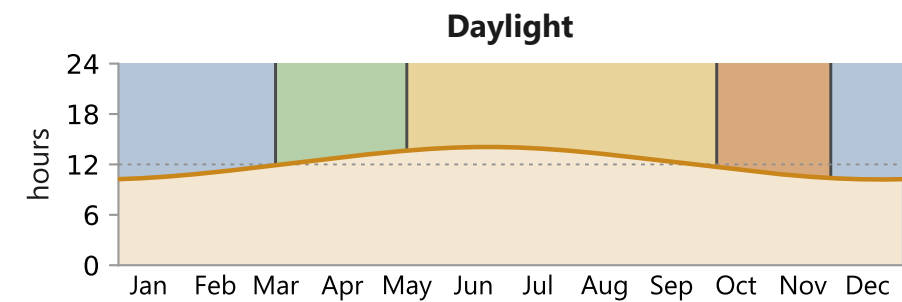
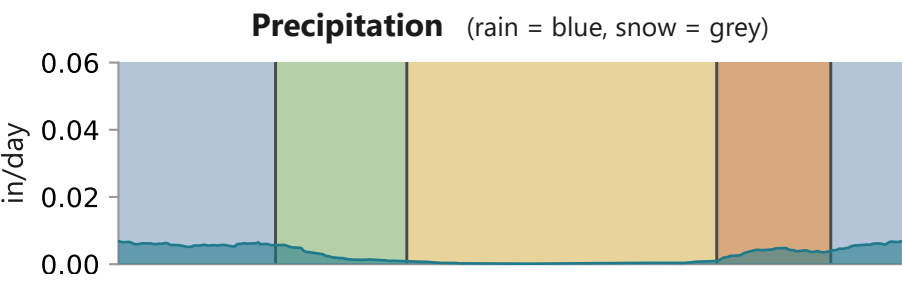
Climate: Hot desert (BWh)

At the head of the Nile Delta, Cairo is an old mainstay of adventure storytelling (The Four Feathers, Raiders of the Lost Ark, The Mummy). Its weather is straightforward—it almost never rains and skies are clear and cloudless. Daily temperature swings are substantial, and summers are scorching and dry; consider increasing the temperature band during hot days around noon to make travel difficult. Sandstorms (Khamaseen) are possible, lasting from several hours to a few days, and concentrated in the springtime.

Optional rules: In spring, 5% daily chance of a sandstorm lasting 1d4 hours (4s explode).



Cairo



Season / dates	Mean °F	Rain	Snow	Wet days
Spring Mar 15 – May 14 (61 days)	70.8	—	—	0%
Summer May 15 – Oct 5 (144 days)	82.7	—	—	0%
Autumn Oct 6 – Nov 27 (53 days)	71.2	—	—	1%
Winter Nov 28 – Mar 14 (107 days)	59.0	0.01	—	1%
Annual	72.1	1.0 in/yr	0.0 in/yr	0%

Cairo: Spring

Mar 15 – May 14

Today: Roll on this column

	A	B	C	D	E	F
	 Cool	 Cool	 Warm	 Warm	 Warm	 Hot
A	 Cool 3.5%	01-19	01	01-02	01	–
B	 Cool 4%	20-62	02	03	02-03	–
C	 Warm 8.4%	63-65	03-28	04-16	04-07	01-26
D	 Warm 23%	66-79	29-63	17-49	08-27	27-63
E	 Warm 57.8%	73-100	64-98	50-99	28-100	64-79
F	 Hot 1.1%	–	99-100	100	–	80-100

Tomorrow: Move to this row

Cairo: Summer

May 15 – Oct 5

Today: Roll on this column

	A	B	C	D
	 Warm	 Warm	 Hot	 Hot
A	 Warm 2.9%	01-23	01-06	01-05
B	 Warm 29.6%	24-86	07-82	06-19
C	 Hot 3.1%	87-89	83	20-36
D	 Hot 63.3%	90-100	84-100	37-100

Tomorrow: Move to this row

Cairo: Autumn

Oct 6 – Nov 27

Today: Roll on this column

	A	B	C	D	E	F
	 Cool	 Cool	 Warm	 Warm	 Warm	 Hot
A	 Cool 1%	01-23	01	01	–	–
B	 Cool 1.2%	24-64	02	02	–	–
C	 Warm 7.8%	–	03-38	03-13	01-04	01-05
D	 Warm 27.4%	65-79	39-72	14-54	05-26	06-14
E	 Warm 58.3%	80-100	73-100	55-100	27-98	15-52
F	 Hot 2.5%	–	–	–	99-100	53-100

Tomorrow: Move to this row

Cairo: Winter

Nov 28 – Mar 14

Today: Roll on this column

	A	B	C	D	E	F
	Cool	Cool	Cool	Warm	Warm	Warm
A	Cool 7.6% 01-21	01-13	01-06	01-04	01-02	01
B	Cool 27.5% 22-67	14-60	07-36	05-13	03-12	02-07
C	Cool 28.4% 68-86	61-91	37-88	14-21	13-22	08-19
D	Warm 7.4% 87-92	92-93	89	22-58	23-36	20-27
E	Warm 12.6% 93-97	94-97	90-93	59-84	37-70	28-50
F	Warm 16.1% 98-100	98-100	94-100	85-100	71-100	51-100

Tomorrow: Move to this row

Moscow



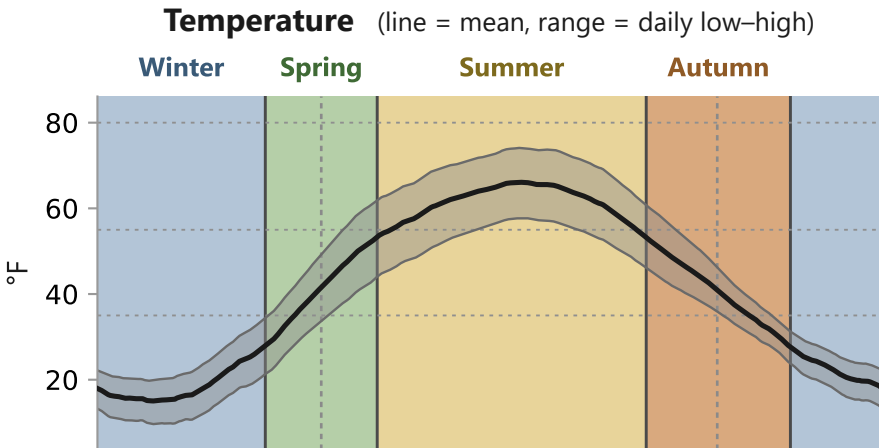
Location: 55.76° N, 37.62° E

Elevation: 156 m

Climate: Warm-summer
continental (Dfb)

Moscow's intense winter is a dramatic example of weather effects on history: the winter of 1812 devastated Napoleon's army during his retreat from the city, precipitating his defeat in Europe. There are two primary seasons, the cold winter and a mild summer, with rapid, and variable, transitions between the two. Summer heat waves occur occasionally.

Optional rules: 1-in-4 chance each summer of a 2d4 day heat wave, increasing all temperature bands by one. This should be placed randomly during the summer (d100, counting from 10 days after the onset of summer is appropriate).

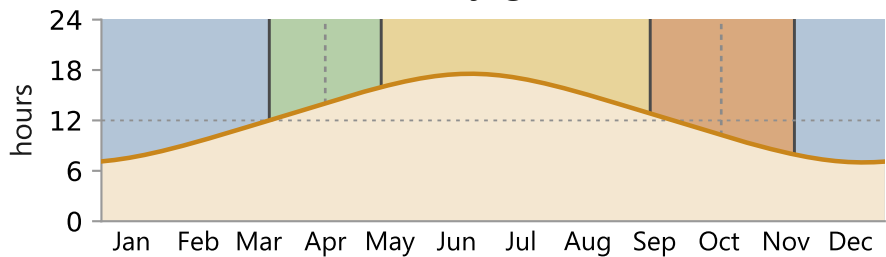


Moscow

Precipitation (rain = blue, snow = grey)



Daylight



Season / dates	Mean °F	Rain	Snow	Wet days
Early Spring Mar 20 – Apr 14 (26 days)	34.3	0.03	0.18	18%
Late Spring Apr 15 – May 10 (26 days)	47.7	0.06	0.03	20%
Summer May 11 – Sep 12 (125 days)	61.4	0.10	—	27%
Early Autumn Sep 13 – Oct 15 (33 days)	47.3	0.08	0.02	24%
Late Autumn Oct 16 – Nov 18 (34 days)	34.5	0.04	0.18	22%
Winter Nov 19 – Mar 19 (121 days)	19.8	0.01	0.35	19%
Annual	40.9	19 in/yr	55 in/yr	22%

Moscow: Early Spring

Mar 20 – Apr 14

Today: Roll on this column

		A	B	C	D	E	F	G	H
		Cold	Cold	Cold	Cold	Cold	Cool	Cool	Cool
A	Cold 40.6%	01-54	01-56	01-46	01-40	01-29	01-15	01-11	–
B	Cold 1.9%	55-56	57-64	47-48	41-42	30	16-18	–	–
C	Cold 13.9%	57-71	65-79	49-82	43-52	31-32	19	–	–
D	Cold 17%	72-89	80-84	83-96	53-78	33-55	20-23	12-22	01-09
E	Cold 10%	90-95	85-87	97-99	79-94	56-96	24	23-26	10-18
F	Cool 8.1%	96-99	88-97	100	95-97	97	25-77	27-66	19-45
G	Cool 3.4%	100	98-100	–	98-99	98	78-94	67-88	46-79
H	Cool 1.6%	–	–	–	100	99-100	95-100	89-100	80-100

Tomorrow: Move to this row

Moscow: Late Spring

Today: Roll on this column

Apr 15 – May 10

	A	B	C	D	E	F	G	H	I	J	K	L
	Cold	Cold	Cold	Cold	Cold	Cool	Cool	Cool	Cool	Warm	Warm	Warm
A	Cold 15.7%	01-43	01-42	01-52	01-34	01-19	01-06	01-13	01-05	01	–	–
B	Cold 1.8%	44-48	43-45	53-55	–	–	07	14-20	–	–	–	–
C	Cold 1.8%	49-53	46-48	56-72	35-36	–	–	21-23	–	–	–	–
D	Cold 8.7%	54-73	49-66	73-87	37-65	20-38	08-10	24-27	06-07	02-03	–	–
E	Cold 2%	74-76	–	88-92	66-72	39-57	11	28	08-09	04	–	–
F	Cool 28.8%	77-91	67-84	93-97	73-83	58-66	12-59	29-74	10-44	05-23	01-15	01-15
G	Cool 5.8%	92-93	85-89	–	84	67-68	60-70	75-87	45-50	24-26	16-17	–
H	Cool 16.8%	94-98	90-100	98-100	85-94	69-82	71-88	88-96	51-78	27-61	18-25	16-30
I	Cool 9.5%	99-100	–	–	95-100	83-100	89-95	97-98	79-95	62-92	26-31	31-33
J	Warm 2.9%	–	–	–	–	–	96-97	99-100	96-97	93-94	32-67	34-49
K	Warm 3.1%	–	–	–	–	–	98-99	–	98	95-96	68-94	50-82
L	Warm 1.9%	–	–	–	–	–	100	–	99-100	97-100	95-100	83-100

Tomorrow: Move to this row

Moscow: Summer

May 11 – Sep 12

Today: Roll on this column

	A	B	C	D	E	F	G	H	I
	 Cool	 Cool	 Cool	 Cool	 Warm	 Warm	 Warm	 Warm	 Warm
A	 Cool 15.3%	01-44	01-47	01-28	01-15	01-05	01-09	01-03	01
B	 Cool 5.4%	45-57	48-68	29-35	16	06-08	10-15	04-05	07
C	 Cool 10%	58-78	69-85	36-66	17-40	09-11	16-19	06-09	02
D	 Cool 2.7%	79-81	86	67-75	41-63	12	20	10	03
E	 Warm 21.4%	82-91	87-94	76-83	64-67	13-50	21-56	11-36	04-17
F	 Warm 7.8%	92-93	95-97	84-85	68	51-65	57-77	37-44	18-20
G	 Warm 23.3%	94-99	98-100	86-97	69-83	66-92	78-97	45-83	21-60
H	 Warm 1.3%	–	–	–	84	93-94	98	84-85	61-63
I	 Warm 9.7%	100	–	98-100	85-100	95-100	99-100	86-100	64-100

Tomorrow: Move to this row

Moscow: Early Autumn

Today: Roll on this column

Sep 13 – Oct 15

	A	B	C	D	E	F	G	H	I	J	K	L
	Cold	Cold	Cold	Cold	Cold	Cool	Cool	Cool	Cool	Warm	Warm	Warm
A	Cold 15.6%	01-53	01-41	01-50	01-39	01-28	01-07	01-13	01	01	-	-
B	Cold 2.3%	54-58	42-57	51-57	40-42	-	08-09	14-16	-	-	-	-
C	Cold 1.1%	59-61	58-62	58-84	43-44	-	-	-	-	-	-	-
D	Cold 4.5%	62-70	63-75	85-92	45-70	29-42	10-12	17-18	02	02	-	-
E	Cold 1.7%	71-73	-	93-96	71-75	43-70	-	03-04	03-04	-	-	-
F	Cool 42.5%	74-93	76-92	97-100	76-89	71-84	13-70	19-70	05-50	05-34	01-29	01-17
G	Cool 8.6%	94-98	93-100	-	90-92	-	71-80	71-91	51-57	35-37	30-41	18-26
H	Cool 13%	99-100	-	-	93-98	85-95	81-94	92-98	58-83	38-67	42-57	27-41
I	Cool 5.1%	-	-	-	99-100	96-100	95-98	99	84-96	68-96	58-61	42-43
J	Warm 1.8%	-	-	-	-	-	99	100	97	-	62-82	44-54
K	Warm 1.6%	-	-	-	-	-	100	-	98-99	97-99	83-90	55-82
L	Warm 1.1%	-	-	-	-	-	-	-	100	100	91-100	83-100

Tomorrow: Move to this row

Moscow: Late Autumn

Oct 16 – Nov 18

Today: Roll on this column

		A	B	C	D	E	F	G	H
		 Cold	 Cold	 Cold	 Cold	 Cold	 Cool	 Cool	 Cool
A	 Cold 53.3%	01-65	01-56	01-56	01-51	01-38	01-30	01-39	01-13
B	 Cold 3.1%	66-69	57-64	57-58	52	–	31-32	40-43	14-16
C	 Cold 13.3%	70-83	65-74	59-94	53-62	39-40	33	44	–
D	 Cold 8%	84-90	75-83	95-99	63-84	41-56	34-38	45-50	17-28
E	 Cold 3.8%	91-92	84	–	85-95	57-97	–	–	29-31
F	 Cool 12.5%	93-99	85-93	100	96-98	98	39-86	51-85	32-75
G	 Cool 2.5%	100	94-100	–	99	–	87-96	86-100	76-81
H	 Cool 1.2%	–	–	–	100	99-100	97-100	–	82-100

Tomorrow: Move to this row

Moscow: Winter

Nov 19 – Mar 19

Today: Roll on this column

	A	B	C	D	E	F	G	H	I	
	 Frigid II	 Frigid I	 Frigid I	 Frigid I	 Frigid I	 Cold	 Cold	 Cold	 Cold	
A	 Frigid II 1.2%	01-44	01-03	01-04	01	01-02	–	–	–	
B	 Frigid I 12.2%	45-79	04-50	05-34	02-29	03-26	01-05	01-06	01-02	01
C	 Frigid I 3.7%	80-95	51-63	35-51	30-38	27-29	06	07-08	–	–
D	 Frigid I 2.6%	–	64-71	52-55	39-54	30-50	07	09	03	02
E	 Frigid I 1.6%	–	72-74	56	55-69	51-81	08	–	04	03-04
F	 Cold 42.6%	–	75-88	57-68	70-88	82-90	09-68	10-53	05-47	05-35
G	 Cold 27.1%	96-100	89-100	69-100	89-97	91-92	69-94	54-97	48-66	36-39
H	 Cold 4.1%	–	–	–	98-99	93-97	95-99	98-100	67-85	40-68
I	 Cold 2%	–	–	–	100	98-100	100	–	86-100	69-100

Tomorrow: Move to this row

Mumbai



Location: 19.08° N, 72.88° E

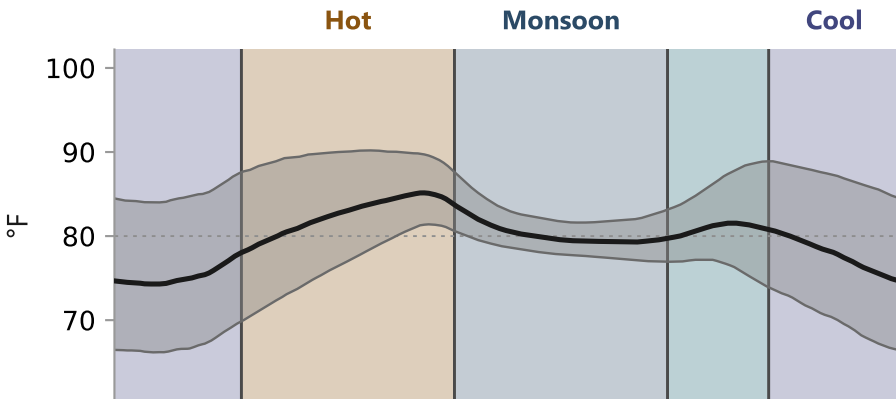
Elevation: 6 m

Climate: Tropical monsoon (Am)

On the Arabian Sea coast, Mumbai's climate is driven by the monsoon. It has intense rains during the summer months, while the rest of the year is dry. Temperature variations throughout the year are modest. The high rainfall can cause flooding during the monsoon months. Thunderstorms occur during the onset at the beginning and end of the wet season. Cyclones also occur, although they are rare enough (once-a-decade events) to not be included in a model.

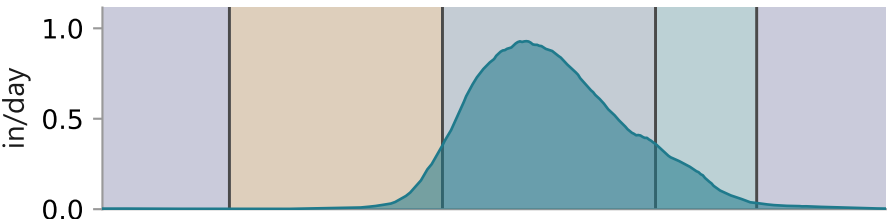
Optional rules: Heavy rain has a 1-in-6 chance to turn into a deluge ($>2''$). Rain during the first month of the monsoon and monsoon retreat has a 1-in-3 chance of being a thunderstorm (1-in-10 otherwise).

Temperature (line = mean, range = daily low-high)

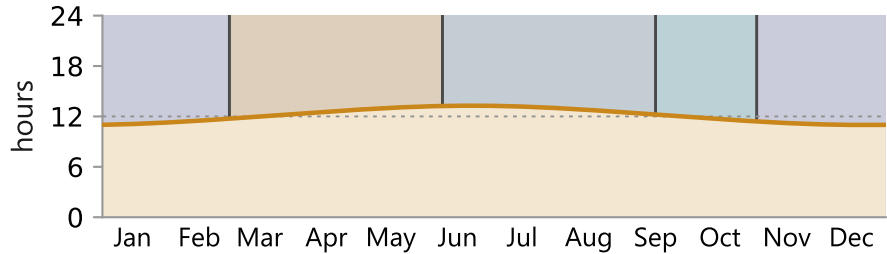


Mumbai

Precipitation (rain = blue, snow = grey)



Daylight



Season / dates	Mean °F	Rain	Snow	Wet days
Hot Season Mar 1 – Jun 7 (99 days)	82.6	0.03	—	6%
Monsoon Jun 8 – Sep 14 (99 days)	80.2	0.70	—	92%
Monsoon Retreat Sep 15 – Oct 31 (47 days)	80.9	0.17	—	33%
Cool Season Nov 1 – Feb 28 (120 days)	76.5	0.01	—	2%
Annual	79.7	81 in/yr	0.0 in/yr	31%

Mumbai: Hot Season

Mar 1 – Jun 7

Today: Roll on this column

	A	B	C	D	E	F
	Warm	Warm	Hot	Hot	Hot	Hot
A	Warm 1.1%	01-07	–	–	–	–
B	Warm 7%	08-73	01	–	01	01-02
C	Hot 7.6%	74	02-47	01-25	02-12	03
D	Hot 2.2%	–	48-55	26-81	13	–
E	Hot 28.4%	75-77	56-91	82-98	14-69	04-21
F	Hot 52.3%	78-100	92-100	99-100	70-100	22-100

Tomorrow: Move to this row

Mumbai: Monsoon

Jun 8 – Sep 14

Today: Roll on this column

	A	B	C	D	E	F
	Warm	Hot	Hot	Hot	Hot	Hot
A	Warm 2.1%	01-48	–	01-04	–	–
B	Hot 17.3%	49	01-12	05	01-34	01-18
C	Hot 46.6%	50-64	56-86	13-81	06-34	35-47
D	Hot 25.7%	65-100	87-88	82-97	35-100	48
E	Hot 6.2%	–	89-98	98-99	–	49-96
F	Hot 1.5%	–	99-100	100	–	97-100
						83-100

Tomorrow: Move to this row

Mumbai: Monsoon Retreat

Sep 15 – Oct 31

Today: Roll on this column

	A	B	C	D	E	F
	Hot	Hot	Hot	Hot	Hot	Hot
A	Hot 23.1%	01-46	01-15	01-22	01-19	01-04
B	Hot 14.1%	47-62	16-56	23-26	20-36	–
C	Hot 3.8%	63-64	57-96	–	37	–
D	Hot 30.6%	65-95	97-99	27-75	38-81	05-26
E	Hot 1.8%	96	100	76-77	82-97	–
F	Hot 25.8%	97-100	100	78-100	98-100	27-100

Tomorrow: Move to this row

Mumbai: Cool Season

Nov 1 – Feb 28

Today: Roll on this column

	A	B	C	D	E	F
	 Warm	 Warm	 Warm	 Hot	 Hot	 Hot
A	 Warm 4.1%	01-34	01-02	01-04	01-02	–
B	 Warm 10.6%	35-65	13-41	03-12	05-07	03-06
C	 Warm 55.2%	66-90	42-92	13-95	08-10	07-13
D	 Hot 4.5%	91-97	93	–	11-61	14-27
E	 Hot 7.3%	98	94-96	96	62-87	28-63
F	 Hot 17.5%	99-100	97-100	97-100	88-100	64-100

Tomorrow: Move to this row

Paris



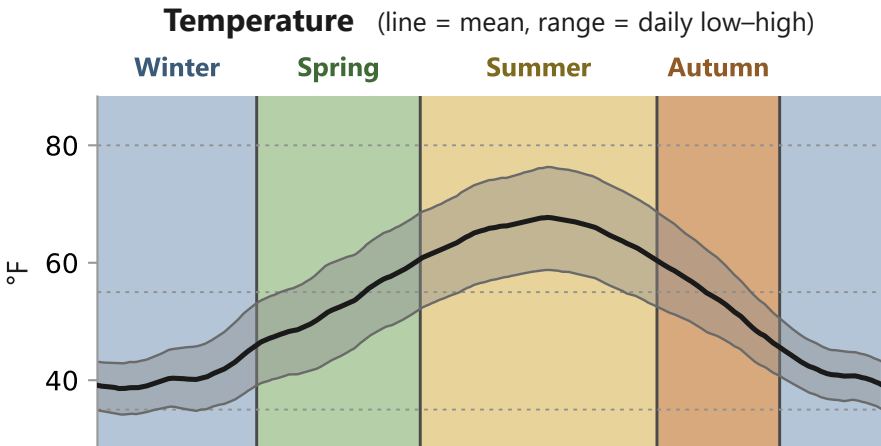
Location: 48.86° N, 2.35° E

Elevation: 35 m

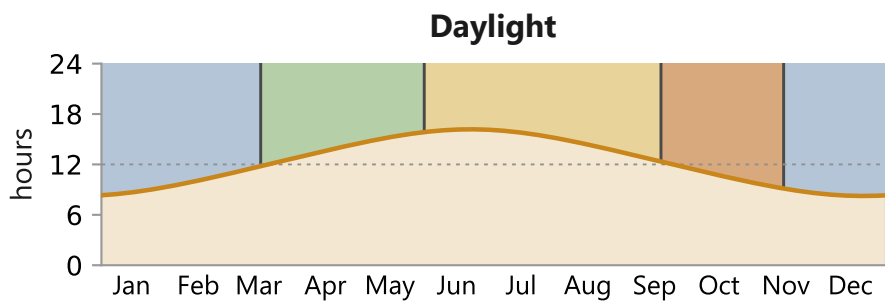
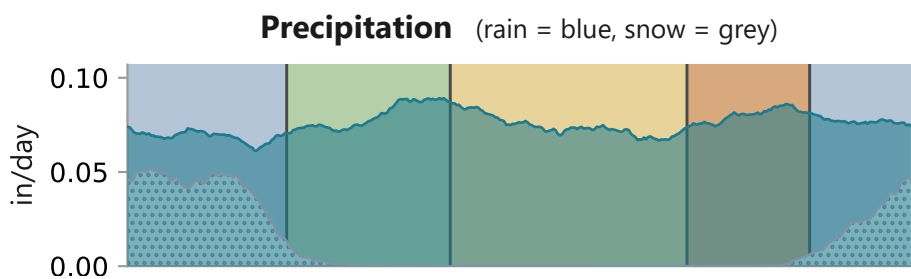
Climate: Oceanic (Cfb)

Paris is a great fit for a typical “Northern European” campaign, including modules like *The Temple of Elemental Evil*, *Keep on the Borderlands*, or *The Sinister Secret of Saltmarsh*. It has a temperate climate with mild winters and warm summers. Precipitation is relatively constant year-round, and some snow falls during the winter. The summers are generally pleasant but experience occasional heat waves.

Optional rules: Each year has a 1-in-5 chance of a heat wave lasting 2d3 days, during which the temperature is increased by one band. This can be placed randomly during the summer (d100, starting after the first 10 days is appropriate).



Paris



Season / dates	Mean °F	Rain	Snow	Wet days
Spring Mar 16 – May 30 (76 days)	52.6	0.08	—	26%
Summer May 31 – Sep 17 (110 days)	65.0	0.07	—	21%
Autumn Sep 18 – Nov 13 (57 days)	53.5	0.08	—	24%
Winter Nov 14 – Mar 15 (122 days)	41.0	0.07	0.04	25%
Annual	52.6	28 in/yr	4.5 in/yr	24%

Paris: Spring

Mar 16 – May 30

Today: Roll on this column

	A	B	C	D	E	F	G	H	I	J
	 Cold	 Cold	 Cool	 Cool	 Cool	 Cool	 Warm	 Warm	 Warm	 Warm
A	 Cold 4%	01-39	01-02	01-03	01	–	–	–	–	–
B	 Cold 3.4%	40-59	03-04	04	02	01-02	–	–	–	–
C	 Cool 37.9%	60-83	05-59	05-55	03-43	03-18	01-19	01-24	01-13	01-04
D	 Cool 9.9%	84-91	60-72	56-79	44-50	19-20	20-26	25-39	14-15	–
E	 Cool 16.6%	92-98	73-89	80-95	51-80	21-44	27-30	40-46	16-21	05-08
F	 Cool 7.4%	99-100	90-92	–	81-93	45-87	31	47	22-23	09-14
G	 Warm 7.7%	–	93-97	96-98	94-96	88-89	32-69	48-74	24-52	15-25
H	 Warm 1.9%	–	98	99	–	–	70-80	75-94	53-58	26-28
I	 Warm 4.8%	–	99-100	100	97-99	90-94	81-94	95-100	59-85	29-52
J	 Warm 3.5%	–	–	–	100	95-100	95-100	–	86-100	53-100

Tomorrow: Move to this row

Paris: Summer

May 31 – Sep 17

Today: Roll on this column

	A	B	C	D	E	F	G	
	Cool	Cool	Cool	Warm	Warm	Warm	Warm	
A	Cool 7.9%	01-35	01-41	01-29	01-04	01-07	01-02	–
B	Cool 2.4%	36-45	42-63	30-32	05	08-10	03	–
C	Cool 5.1%	46-61	64-77	33-63	06-08	11-14	04-05	01
D	Warm 34.8%	62-86	78-93	64-77	09-58	15-59	06-40	02-19
E	Warm 8%	87-90	94-96	78-79	59-69	60-76	41-46	20-22
F	Warm 25.1%	91-98	97-100	80-95	70-94	77-98	47-82	23-55
G	Warm 12.6%	99-100	–	96-100	95-100	99-100	83-100	56-100

Tomorrow: Move to this row

Paris: Autumn

Sep 18 – Nov 13

Today: Roll on this column

	A	B	C	D	E	F	G	H	I	J	K
	 Cold	 Cold	 Cold	 Cool	 Cool	 Cool	 Cool	 Warm	 Warm	 Warm	 Warm
A	 Cold 2.4%	01-34	01-24	01-22	01-02	–	01-02	01	–	–	–
B	 Cold 1.8%	35-49	25-51	23-52	03	01	03-04	–	–	–	–
C	 Cold 1.1%	50-51	52-65	53-82	–	02	05	02-03	–	–	–
D	 Cool 38.5%	52-87	66-89	83-87	04-59	03-48	06-48	04-25	01-18	01-24	01-04
E	 Cool 9.4%	88-97	90-94	88-89	60-71	49-72	49-56	26-27	19-22	25-36	09 05
F	 Cool 16.1%	98-100	95-97	90-100	72-89	73-93	57-83	28-50	23-28	37-43	10-15 06
G	 Cool 6.2%	–	98-100	–	90-92	94	84-94	51-89	29	44	16-19 07-10
H	 Warm 12%	–	–	–	93-98	95-97	95-97	90-91	30-71	45-76	20-55 11-33
I	 Warm 3.1%	–	–	–	99	98-100	–	–	72-83	77-94	56-60 34-36
J	 Warm 4.7%	–	–	–	100	–	98-99	92-94	84-96	95-99	61-82 37-62
K	 Warm 3.4%	–	–	–	–	–	100	95-100	97-100	100	83-100 63-100

Tomorrow: Move to this row

Paris: Winter

Nov 14 – Mar 15

Today: Roll on this column

	A	B	C	D	E	F	G	H	I	
	 Cold	 Cold	 Cold	 Cold	 Cold	 Cool	 Cool	 Cool	 Cool	
A	 Cold 29.7%	01-52	01-37	01-42	01-41	01-26	01-12	01-14	01-11	01-05
B	 Cold 3.7%	53-57	38-49	43-48	42-46	27	13-14	15-19	12	–
C	 Cold 2.4%	58-61	50-51	49-69	47-50	28-29	–	–	–	–
D	 Cold 12.1%	62-74	52-67	70-89	51-75	30-53	15-19	20-25	13-21	06-09
E	 Cold 6.8%	75-79	68-69	90-93	76-88	54-95	20	26	22-23	10-15
F	 Cool 30.9%	80-95	70-88	94-98	89-96	96-97	21-80	27-75	24-66	16-35
G	 Cool 7.5%	96-99	89-99	99-100	97-98	–	81-92	76-94	67-74	36
H	 Cool 4.4%	100	100	–	99-100	98	93-99	95-100	75-90	37-60
I	 Cool 1.5%	–	–	–	–	99-100	100	–	91-100	61-100

Tomorrow: Move to this row

Rome



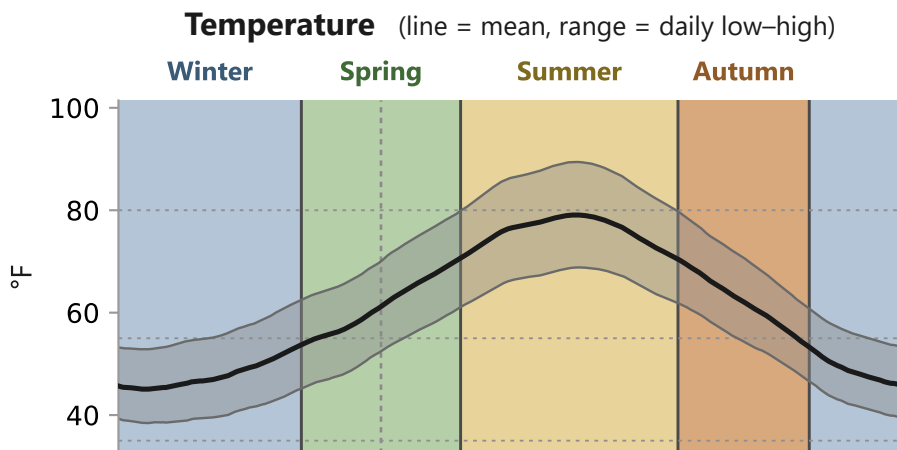
Location: 41.90° N, 12.50° E

Elevation: 21 m

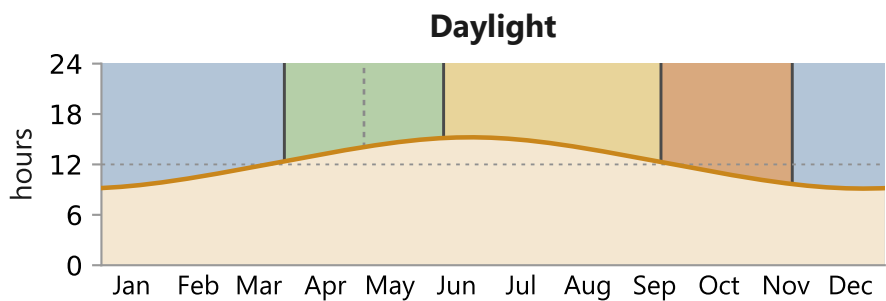
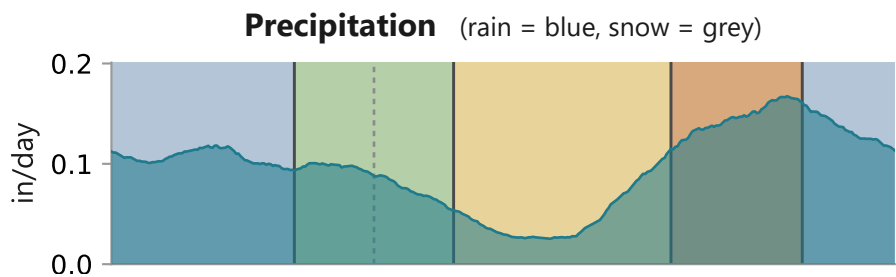
Climate: Mediterranean (Csa)

Roman weather has hot dry summers and mild, rainy winters. Autumn exhibits the heaviest rain of the year and can develop substantial thunderstorms. Flooding occurred every few to several years during antiquity, and significant floods which made the city navigable by boat for a few days have been recorded. Snow is technically possible during the winter but occurs so rarely as to not be modeled. Heat waves are possible during the summers.

Optional rules: Each year has a 1-in-4 chance of a heat wave lasting 2d4 days, during which the temperature is increased by one band. This can be placed randomly during the summer (d100 is appropriate). Flooding occurs after 2 consecutive days of heavy rain, increasing in severity with additional rain.



Rome



Season / dates	Mean °F	Rain	Snow	Wet days
Early Spring Mar 27 – May 2 (37 days)	56.8	0.10	—	26%
Late Spring May 3 – Jun 8 (37 days)	65.9	0.07	—	18%
Summer Jun 9 – Sep 17 (101 days)	75.9	0.05	—	10%
Autumn Sep 18 – Nov 17 (61 days)	62.2	0.15	—	27%
Winter Nov 18 – Mar 26 (129 days)	48.0	0.12	—	27%
Annual	60.8	35 in/yr	0.3 in/yr	21%

Rome: Early Spring

Mar 27 – May 2

Today: Roll on this column

	A	B	C	D	E	F	G	H	I	J
	 Cool	 Cool	 Cool	 Cool	 Cool	 Cool	 Warm	 Warm	 Warm	 Warm
A	 Cool 16.2%	01-31	01-27	01-29	01-26	01-14	01-13	01-04	01-07	01-03
B	 Cool 9.2%	32-46	28-51	30-64	27-35	15-41	14-16	05-09	08-20	04-05
C	 Cool 1.1%	47-49	52-54	–	36	42-45	–	10	21	–
D	 Cool 18.4%	50-71	55-80	65-91	37-65	46-80	17-46	11-14	22-29	06-10
E	 Cool 1.6%	72-74	81-84	92-94	66	81-84	–	15	30-31	–
F	 Cool 13.4%	75-82	85-90	95-97	67-87	85-98	47-89	16	32-33	11-15
G	 Warm 12.6%	83-91	91	98-100	88-91	99-100	90-91	17-54	34-46	16-45
H	 Warm 3.8%	92-94	92-94	–	–	–	–	55-65	47-66	46-51
I	 Warm 13.8%	95-99	95-100	–	92-97	–	92-95	66-93	67-95	52-80
J	 Warm 8.8%	100	–	–	98-100	–	96-100	94-100	96-100	81-100

Tomorrow: Move to this row

Rome: Late Spring

May 3 – Jun 8

Today: Roll on this column

	A	B	C	D	E	F
	 Cool	 Warm	 Warm	 Warm	 Warm	 Warm
A	 Cool 1.8%	01-34	–	01-02	01	–
B	 Warm 19.9%	35-45	01-35	03-23	02-23	01-17
C	 Warm 7.2%	46-48	36-48	24-47	24-28	18-33
D	 Warm 37%	49-82	49-84	48-87	29-71	34-79
E	 Warm 2.4%	–	85-87	88-93	72-74	80-83
F	 Warm 27%	83-100	88-100	94-100	75-100	84-100

Tomorrow: Move to this row

Rome: Summer

Jun 9 – Sep 17

Today: Roll on this column

	A	B	C	D	E	F	G	H
	 Warm	 Warm	 Warm	 Warm	 Warm	 Hot	 Hot	 Hot
A	 Warm 5.7%	01-23	01-19	01-10	01-08	01-04	01-02	–
B	 Warm 2.8%	24-33	20-37	11-15	09-19	05	03-04	–
C	 Warm 20.2%	34-71	38-69	16-51	20-52	06-28	05-11	01-03
D	 Warm 2.1%	72-74	70-77	52-54	53-60	29	12-13	04
E	 Warm 33.6%	75-94	78-98	55-93	61-99	30-89	14-24	05-13
F	 Hot 1.1%	95	–	94	–	–	25-35	14
G	 Hot 7.5%	96-98	99	95-96	100	90-91	32-62	15-27
H	 Hot 25.5%	99-100	100	97-100	–	92-100	63-100	28-100

Tomorrow: Move to this row

Rome: Autumn

Today: Roll on this column

Sep 18 – Nov 17

	A	B	C	D	E	F	G	H	I	J
	Cool	Cool	Cool	Cool	Warm	Warm	Warm	Warm	Warm	Warm
A	Cool 5.3%	01-23	01-26	01-23	01-13	–	01-04	01-02	01	01-03 –
B	Cool 3.1%	24-35	27-50	24-31	14-16	01	05-07	03-08	02	04-06 –
C	Cool 6.4%	36-57	51-66	32-54	17-39	02	08-12	09-11	03-04	07-10 01
D	Cool 8.1%	58-70	67-80	55-80	40-88	03	13-14	12	05-07	11-16 02-03
E	Warm 17.1%	71-81	81-88	81-86	89	04-38	15-34	13-28	08-29	17-23 04-14
F	Warm 9.4%	82-90	89-94	87-90	–	39-55	35-53	29-57	30-39	24-30 15-16
G	Warm 3.8%	91-93	95-96	91	–	56-62	54-63	58-74	40-42	31-33 17
H	Warm 22.6%	94-98	97-99	92-97	90-93	63-89	64-88	75-93	43-74	34-72 18-46
I	Warm 2.2%	–	–	–	–	90-91	89-96	94-97	75-76	73-78 47
J	Warm 20%	99-100	100	98-100	94-100	92-100	97-100	98-100	77-100	79-100 48-100

Tomorrow: Move to this row

Rome: Winter

Nov 18 – Mar 26

Today: Roll on this column

	A	B	C	D	E	F	G	H	I	J
	 Cold	 Cold	 Cold	 Cool	 Cool	 Cool	 Cool	 Cool	 Cool	 Warm
A	 Cold 2.1%	01-21	01-11	01-08	01	–	–	01	–	–
B	 Cold 3.6%	22-39	12-31	09-26	02	–	01	02	01	–
C	 Cold 6.7%	40-61	32-61	27-75	03	04	01-02	03-09	02-05	–
D	 Cool 27.5%	62-80	62-76	76-82	04-46	05-31	03-24	10-32	06-22	01-17
E	 Cool 13.4%	81-89	77-83	83-84	47-64	32-61	25-63	33-47	23-25	18-33
F	 Cool 2.3%	90-92	84	–	65-66	62-68	64-75	48-52	–	34-36
G	 Cool 21.2%	93-99	85-95	85-91	67-88	69-89	76-94	53-80	26-50	37-57
H	 Cool 1.2%	–	–	–	89	90-93	95-97	81-83	–	58-60
I	 Cool 17.8%	100	96-100	92-100	90-98	94-99	98-100	84-99	51-100	61-64
J	 Warm 1.5%	–	–	–	99-100	100	–	100	–	65-100

Tomorrow: Move to this row



*Giovanni Battista Piranesi, Veduta
dell'Anfiteatro Flavio detto il Colosseo, 1776*

The Weather Book

