



Climate normals Luzern

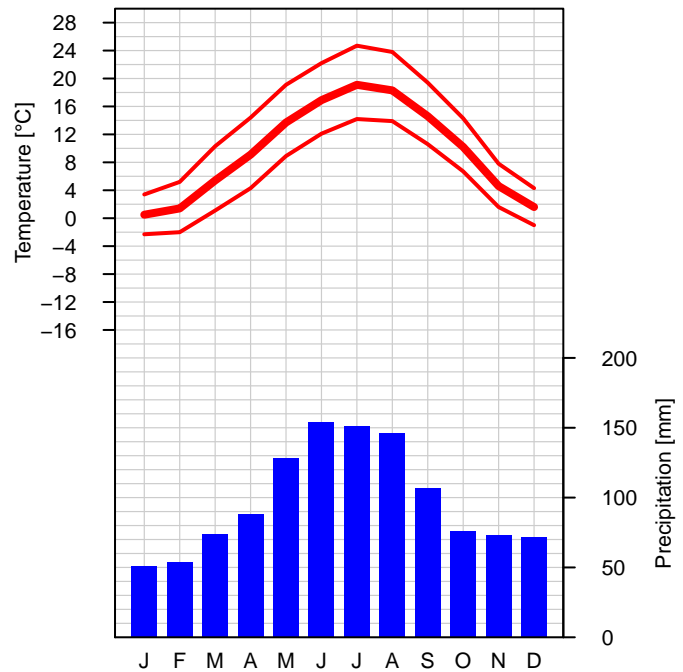
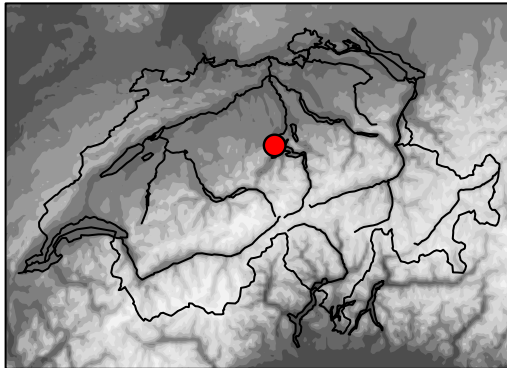
Reference period 1981–2010

Altitude a.s.l.: 454 m

Geogr. coord.: 47.04 N / 8.3 E

Swiss coord.: 2'665'545 / 1'209'850

Climate region: Central plateau



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Temperature [°C]	0.5	1.4	5.4	9.1	13.7	16.9	19.1	18.3	14.6	10.2	4.6	1.6	9.6
Maximum temp [°C]	3.4	5.2	10.3	14.4	19.1	22.2	24.7	23.8	19.4	14.3	7.8	4.3	14.1
Minimum temp [°C]	-2.3	-2.0	1.1	4.3	8.9	12.1	14.2	13.9	10.6	6.7	1.6	-1.0	5.7
Ice days [days]	7.7	4.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.8	18.8
Frost days [days]	22.6	19.9	11.6	2.0	0.0	0.0	0.0	0.0	0.0	0.7	8.3	18.7	83.8
Summer days [days]	0.0	0.0	0.0	0.3	3.6	9.7	15.8	12.9	2.6	0.1	0.0	0.0	45.0
Heat days [days]	0.0	0.0	0.0	0.0	0.2	1.5	3.2	1.7	0.0	0.0	0.0	0.0	6.6
Sunshine [h]	47	72	122	141	161	171	201	187	137	97	52	36	1424
Sunshine [%]	21	28	36	36	37	38	45	45	39	32	22	17	35
Bright days [days]	2.9	3.9	5.0	5.4	5.1	4.7	6.4	6.4	5.4	4.3	2.7	1.9	54.1
Cloudy days [days]	20.9	16.3	13.3	12.5	13.0	11.8	9.4	9.5	11.9	15.0	19.3	22.4	175.3
Precipitation sum [mm]	51	54	74	88	128	154	151	146	107	76	73	72	1173
Precipitation 1 mm [days]	9.3	8.7	11.8	11.8	12.9	13.5	12.5	12.5	10.2	9.4	9.6	10.0	132.2
Precipitation 5 mm [days]	3.7	3.8	4.9	5.9	8.1	8.8	8.3	8.0	6.0	5.1	5.0	4.8	72.4
Precipitation 10 mm [days]	1.4	1.3	2.2	2.8	4.8	5.8	5.5	5.2	3.7	2.5	2.2	2.5	39.9
Precipitation 50 mm [days]	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.7
Precipitation 100 mm [days]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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Precipitation 0%–q [mm]	7	11	29	18	18	76	17	29	35	1	23	23	943
Precipitation 20%–q [mm]	21	31	50	58	80	113	91	106	66	43	38	35	1044
Precipitation 40%–q [mm]	42	43	60	75	116	144	128	131	86	70	55	49	1147
Precipitation 60%–q [mm]	54	55	70	86	147	171	151	157	117	79	72	71	1180
Precipitation 80%–q [mm]	83	71	94	129	179	189	209	185	157	103	108	104	1278
Precipitation 100%–q [mm]	104	119	172	189	258	251	288	292	207	149	175	186	1472
Snowfall [cm]	16	20	8	1	0	0	0	0	0	0	5	15	65
Snowfall [days]	3.8	4.4	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.6	15.4
Snow cover > 0 cm [days]	11.1	11.2	4.6	0.6	0.0	0.0	0.0	0.0	0.0	0.1	2.4	7.9	37.9
Snow cover > 1 cm [days]	10.0	10.1	4.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	2.0	6.3	32.8
Snow cover > 10 cm [days]	3.0	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	9.0
Snow cover > 50 cm [days]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Relative humidity [%]	83	79	73	70	72	72	72	75	80	83	84	84	77
Vapor pressure [hPa]	5.4	5.5	6.7	8.1	11.2	13.8	15.8	15.9	13.4	10.6	7.4	6.0	10.0
Air pressure station [hPa]	966.0	964.3	963.2	960.4	961.9	963.7	964.4	964.1	964.6	964.2	963.6	964.3	963.7
Air pressure red. sea [hPa]	1022	1020	1018	1014	1015	1016	1017	1016	1018	1018	1019	1020	1018
Wind speed [m/s]	1.4	1.5	1.7	1.7	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.3	1.4
Wind 10 m/s [days]	1.5	1.5	1.4	0.6	0.4	0.8	0.7	0.6	0.4	0.7	0.6	0.9	10.1
Wind 20 m/s [days]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wind 30 m/s [days]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Visibility < 100 m [days]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Visibility < 1000 m [days]	3.1	1.7	0.8	0.7	0.3	0.1	0.1	0.2	1.0	1.5	3.0	3.2	15.7



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Legend:

Climate graph:	Graph showing long-term means of monthly mean temperature, mean monthly maximum and minimum temperature as well as monthly precipitation sums of a certain measuring site.
Table:	Long-term means of monthly mean values and monthly sums of different climatological parameters. Missing values (no measurements or measuring period too short) are labeled as "-".
<i>Temperature [°C]</i>	monthly mean temperature
<i>Maximum temp [°C]</i>	monthly mean of daily maximum temperature
<i>Minimum temp [°C]</i>	monthly mean of daily minimum temperature
<i>Ice days [days]</i>	number of days with maximum temperature below 0° Celsius
<i>Frost days [days]</i>	number of days with minimum temperature below 0° Celsius
<i>Summer days [days]</i>	number of days with maximum temperature equal to or above 25° Celsius
<i>Heat days [days]</i>	number of days with maximum temperature equal to or above 30° Celsius
<i>Sunshine [h]</i>	measured sunshine duration
<i>Sunshine [%]</i>	ratio of measured sunshine duration to possible sunshine duration
Bright days [days]	number of days with sunshine duration greater than 80%
Cloudy days [days]	number of days with sunshine duration less than 20%
<i>Precipitation sum [mm]</i>	monthly precipitation sum
<i>Precipitation X mm [days]</i>	number of days with precipitation equal to or above X mm
<i>Precipitation X%-q [mm]</i>	X%-quantile of the monthly precipitation sums (0%: lowest value; 40%: 40%/60% of the values are lower/higher than this value; 100%: highest value) Attention: Annual values do not correspond to the sum of the monthly values.
Snowfall [cm]	monthly snowfall sum
Snowfall [days]	number of days with snowfall equal to or above 1 cm
Snow cover > X cm [days]	number of days with snow cover above X cm
Relative humidity [%]	monthly mean of relative humidity
<i>Vapor pressure [hPa]</i>	monthly mean of vapor pressure
<i>Air pressure station [hPa]</i>	monthly mean of air pressure at station level
<i>Air pressure red. sea [hPa]</i>	monthly mean of air pressure reduced to sea level
<i>Wind speed [m/s]</i>	mean monthly wind speed
Wind X m/s [days]	number of days with wind speed (10min mean) equal to or above X m/s
Visibility < X m [days]	number of days with visibility < X m (at least once a day). A visibility below 1000 m is also called fog.

Homogeneous data series were used to calculate long-term means for the parameters shown in italics. The selection of the parameters is based on the guidelines of the World Meteorological Organization (WMO–No. 1203). The values can change due to continuous quality control and homogeneity updates. Further information on the Swiss climate and on the homogenization topic can be found on www.meteoswiss.ch.