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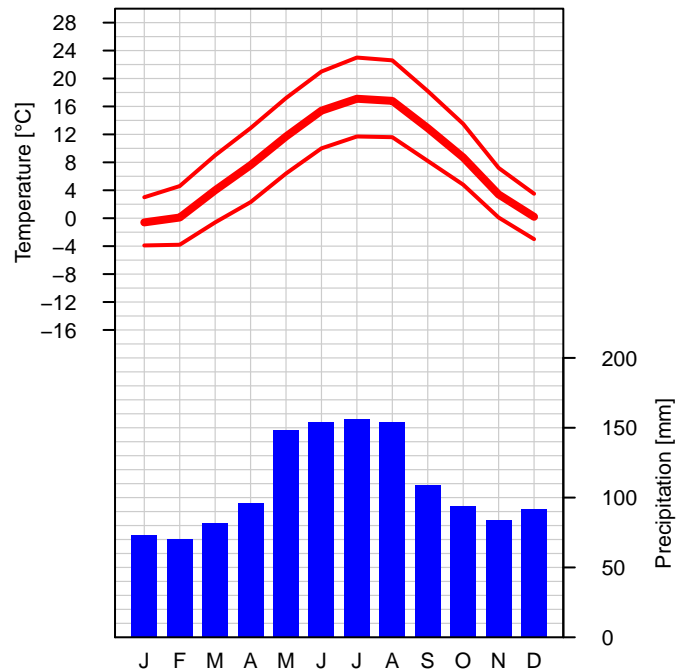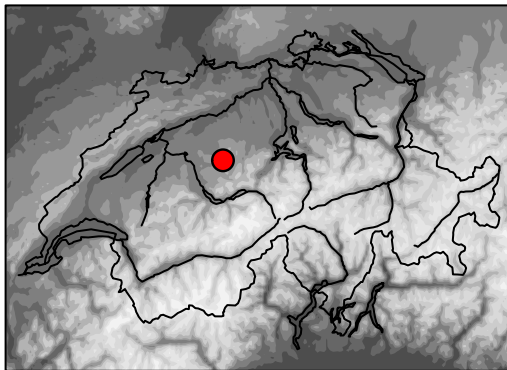**Federal Office of Meteorology and Climatology MeteoSwiss**

MeteoSwiss

Climate normals Langnau i.E.

Reference period 1991–2020

Altitude a.s.l.:   744 m

Geogr. coord.:   46.94 N / 7.81 E

Swiss coord.:   2'628'004 / 1'198'793

Climate region: Central Alpine north slope

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Temperature [°C]	–0.6	0.1	4.0	7.6	11.7	15.4	17.1	16.8	12.9	8.7	3.4	0.2	8.1
Maximum temp [°C]	3.0	4.6	9.0	12.9	17.2	21.0	23.0	22.6	18.2	13.5	7.2	3.5	13.0
Minimum temp [°C]	–3.9	–3.8	–0.6	2.3	6.4	10.0	11.7	11.6	8.2	4.8	0.1	–3.0	3.7
Ice days [days]	7.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	6.4	21.9
Frost days [days]	25.5	23.1	17.0	7.3	0.9	0.0	0.0	0.0	0.1	2.9	13.4	23.9	114.1
Summer days [days]	0.0	0.0	0.0	0.0	1.9	7.3	11.4	10.7	1.4	0.0	0.0	0.0	32.7
Heat days [days]	0.0	0.0	0.0	0.0	0.1	0.7	1.4	1.2	0.0	0.0	0.0	0.0	3.4
Sunshine [h]	–	–	–	–	–	–	–	–	–	–	–	–	–
Sunshine [%]	–	–	–	–	–	–	–	–	–	–	–	–	–
Bright days [days]	–	–	–	–	–	–	–	–	–	–	–	–	–
Cloudy days [days]	–	–	–	–	–	–	–	–	–	–	–	–	–
Precipitation sum [mm]	73	70	82	96	148	154	156	154	109	94	84	92	1312
Precipitation 1 mm [days]	10.7	10.0	11.3	11.4	13.6	13.5	13.0	12.1	10.3	10.9	10.9	11.9	139.6
Precipitation 5 mm [days]	5.1	5.1	5.6	6.1	8.9	8.9	8.4	8.4	6.1	6.7	5.3	6.6	81.2
Precipitation 10 mm [days]	2.3	2.1	2.9	3.3	5.3	5.6	5.1	5.5	3.8	3.6	2.7	3.0	45.2
Precipitation 50 mm [days]	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.0	0.8
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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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Precipitation 0%–q [mm]	15	20	35	23	50	75	42	21	35	6	1	1	1025
Precipitation 20%–q [mm]	42	38	56	56	92	110	98	90	64	61	48	45	1158
Precipitation 40%–q [mm]	56	48	63	71	119	134	129	137	95	81	67	77	1255
Precipitation 60%–q [mm]	73	73	71	102	159	165	149	176	119	100	95	98	1317
Precipitation 80%–q [mm]	108	100	104	159	202	195	189	210	130	138	122	134	1457
Precipitation 100%–q [mm]	199	199	252	209	281	237	378	297	208	172	190	183	1728
Snowfall [cm]	26	29	14	7	0	0	0	0	0	2	10	27	115
Snowfall [days]	4.6	5.0	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.1	2.1	4.6	20.7
Snow cover > 0 cm [days]	15.1	13.5	5.5	1.7	0.0	0.0	0.0	0.0	0.0	0.3	3.9	13.2	53.2
Snow cover > 1 cm [days]	12.9	11.7	4.4	1.2	0.0	0.0	0.0	0.0	0.0	0.3	3.3	11.1	44.9
Snow cover > 10 cm [days]	4.0	5.4	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.2	1.1	3.8	15.9
Snow cover > 50 cm [days]	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9
Relative humidity [%]	86	84	78	76	77	75	75	77	82	86	89	88	81
Vapor pressure [hPa]	5.3	5.3	6.5	8.0	10.6	13.3	14.8	15.1	12.6	10.0	7.3	5.7	9.5
Air pressure station [hPa]	932.0	930.9	929.9	928.2	930.2	931.9	932.4	932.5	932.2	931.4	930.0	931.6	931.1
Air pressure red. 850 [m]	1473	1466	1468	1462	1491	1516	1525	1525	1511	1493	1467	1472	1489
Wind speed [m/s]	–	–	–	–	–	–	–	–	–	–	–	–	–
Wind 10 m/s [days]	–	–	–	–	–	–	–	–	–	–	–	–	–
Wind 20 m/s [days]	–	–	–	–	–	–	–	–	–	–	–	–	–
Wind 30 m/s [days]	–	–	–	–	–	–	–	–	–	–	–	–	–
Visibility < 100 m [days]	–	–	–	–	–	–	–	–	–	–	–	–	–
Visibility < 1000 m [days]	–	–	–	–	–	–	–	–	–	–	–	–	–

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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 "–".
Temperature [°C]	monthly mean temperature
Maximum temp [°C]	monthly mean of daily maximum temperature
Minimum temp [°C]	monthly mean of daily minimum temperature
Ice days [days]	number of days with maximum temperature below 0° Celsius
Frost days [days]	number of days with minimum temperature below 0° Celsius
Summer days [days]	number of days with maximum temperature equal to or above 25° Celsius
Heat days [days]	number of days with maximum temperature equal to or above 30° Celsius
Sunshine [h]	measured sunshine duration
Sunshine [%]	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%
Precipitation sum [mm]	monthly precipitation sum
Precipitation X mm [days]	number of days with precipitation equal to or above X mm
Precipitation X%–q [mm]	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
Vapor pressure [hPa]	monthly mean of vapor pressure
Air pressure station [hPa]	monthly mean of air pressure at station level
Air pressure red. 850 [m]	monthly mean of the geopotential height of the 850 hPa level
Wind speed [m/s]	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.