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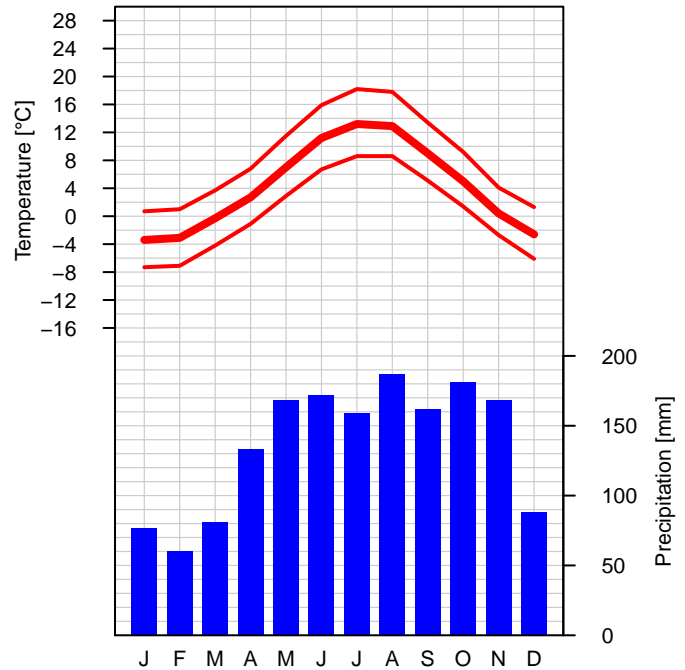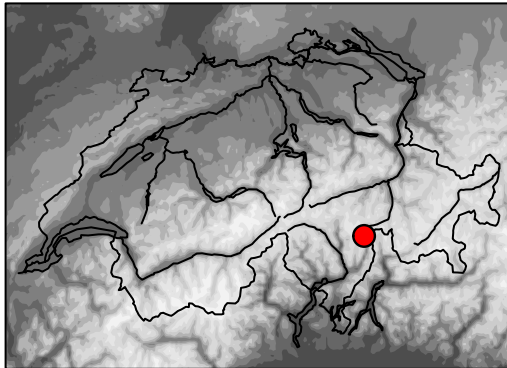# *Climate normals S. Bernardino*
Reference period 1991–2020

Altitude a.s.l.:   1639 m

Geogr. coord.:   46.46 N / 9.18 E

Swiss coord.:   2'734'116 / 1'147'294

Climate region: Alpine south side

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Temperature [°C]	–3.4	–3.1	–0.3	2.7	7.0	11.2	13.2	12.9	9.0	5.0	0.4	–2.6	4.3
Maximum temp [°C]	0.7	1.0	3.7	6.8	11.5	15.9	18.2	17.8	13.4	9.2	4.1	1.3	8.6
Minimum temp [°C]	–7.3	–7.1	–4.2	–1.1	2.9	6.7	8.6	8.6	5.1	1.4	–2.7	–6.1	0.4
Ice days [days]	13.9	12.1	5.8	1.3	0.1	0.0	0.0	0.0	0.0	0.4	5.0	11.5	50.1
Frost days [days]	30.3	27.2	27.0	18.0	3.9	0.2	0.0	0.0	1.1	10.6	22.7	29.8	170.8
Summer days [days]	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.6	0.0	0.0	0.0	0.0	1.1
Heat days [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
Sunshine [h]	97	107	141	128	128	145	163	154	133	109	81	86	1470
Sunshine [%]	54	56	52	44	40	44	49	50	49	48	45	51	48
Bright days [days]	13.4	12.4	11.9	8.4	6.7	6.3	7.2	8.6	9.8	11.4	10.6	12.5	119.2
Cloudy days [days]	9.4	7.9	8.9	11.2	12.5	9.2	6.9	7.9	9.6	11.8	12.6	10.7	118.6
Precipitation sum [mm]	77	60	81	133	168	172	159	187	162	181	168	88	1637
Precipitation 1 mm [days]	7.6	6.5	8.1	10.1	14.1	12.5	12.0	12.7	10.0	11.1	10.7	8.5	123.9
Precipitation 5 mm [days]	4.0	3.3	4.4	6.4	8.7	8.0	7.9	8.4	6.4	7.4	6.7	4.4	76.0
Precipitation 10 mm [days]	2.5	1.7	2.6	4.4	5.9	5.4	5.0	5.9	4.3	5.1	5.0	2.6	50.4
Precipitation 50 mm [days]	0.1	0.1	0.1	0.2	0.3	0.6	0.4	0.7	0.7	0.9	0.7	0.1	4.9
Precipitation 100 mm [days]	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.4

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Reference period 1991–2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Precipitation 0%–q [mm]	6	3	3	17	35	55	55	7	29	5	3	0	870
Precipitation 20%–q [mm]	25	22	31	68	109	99	102	131	60	65	56	41	1337
Precipitation 40%–q [mm]	49	31	61	91	131	147	135	174	115	118	101	67	1538
Precipitation 60%–q [mm]	72	59	86	134	155	192	155	209	146	172	167	96	1679
Precipitation 80%–q [mm]	118	94	115	199	229	236	221	242	273	287	238	146	1907
Precipitation 100%–q [mm]	246	258	224	395	395	383	323	320	458	501	647	253	2389
Snowfall [cm]	98	81	69	67	–	–	–	–	–	–	70	89	–
Snowfall [days]	8.5	7.5	7.8	6.4	–	–	–	–	–	–	7.1	9.2	–
Snow cover > 0 cm [days]	30.0	28.2	30.3	21.1	–	–	–	–	–	–	17.0	25.9	–
Snow cover > 1 cm [days]	29.9	28.2	30.3	20.9	–	–	–	–	–	–	15.7	25.5	–
Snow cover > 10 cm [days]	28.4	28.0	29.3	18.4	–	–	–	–	–	–	9.4	22.6	–
Snow cover > 50 cm [days]	19.1	21.1	20.3	8.9	–	–	–	–	–	–	2.4	9.1	–
Relative humidity [%]	66	63	66	71	73	72	72	75	77	77	74	68	71
Vapor pressure [hPa]	3.2	3.1	4.0	5.2	7.3	9.6	10.9	11.1	8.8	6.8	4.8	3.5	6.5
Air pressure station [hPa]	833.4	832.2	832.3	832.1	835.2	837.6	838.6	839.0	837.6	836.3	833.3	833.5	835.1
Air pressure red. 850 [m]	1484	1472	1472	1468	1496	1517	1527	1531	1518	1507	1481	1484	1496
Wind speed [m/s]	2.7	3.0	2.8	2.5	2.3	2.3	2.4	2.2	2.1	2.0	2.2	2.5	2.4
Wind 10 m/s [days]	5.1	4.9	3.4	1.0	0.6	0.4	0.3	0.4	0.6	0.8	2.5	3.6	23.6
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]	–	–	–	–	–	–	–	–	–	–	–	–	–
Visibility < 1000 m [days]	–	–	–	–	–	–	–	–	–	–	–	–	–

Snow data: MeteoSchweiz, Eidg. Institut für Schnee– und Lawinenforschung

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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.