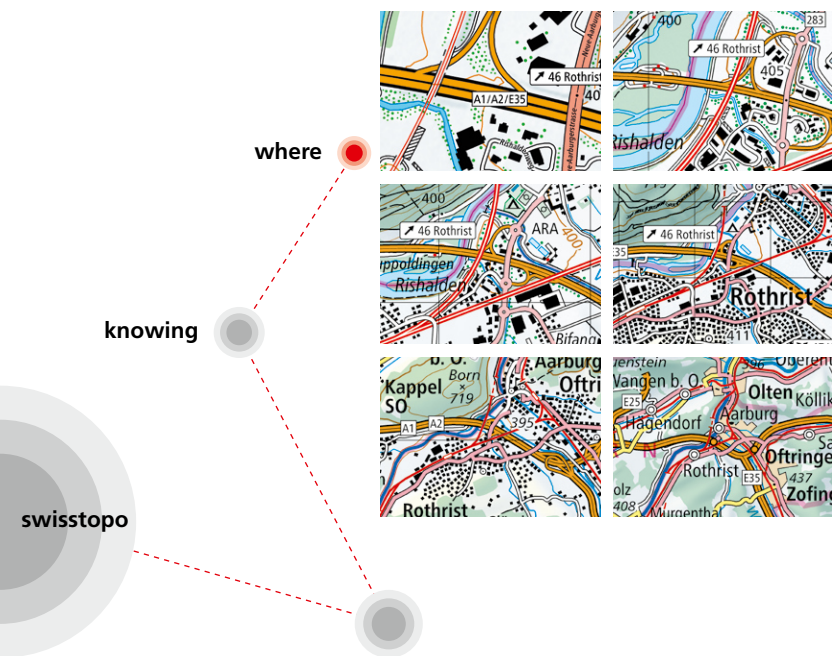


# Conventional signs

National Maps 1:10 000 to 1:1 Million



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

Federal Office of Topography swisstopo  
[www.swisstopo.ch](http://www.swisstopo.ch)

# National Maps 1:10 000, 1:25 000 and 1:50 000

## Roads, tracks

Motorway, under construction	
Expressway, under construction	
10 m Road (> 10 m) hard surface, unsurfaced	
8 m Road (> 8 m) hard surface, unsurfaced	
6 m Road (> 6 m) hard surface, unsurfaced	
4 m Road (> 4 m) hard surface, unsurfaced	
3 m Road (> 3 m) hard surface, unsurfaced, not suitable for vehicles	
2 m Track (> 2 m) hard surface, unsurfaced, not suitable for vehicles	
1 m Track (< 2 m), footbridge	
Signposted route	
Track fragment	
Via ferrata (NM10)	
Barrier, traffic ban	
Steps	
Trunk road	
Main connecting road	
Slip road, motorway interchange	

Service station	
Gallery/covered bridge	
Tunnel	

## Public transport

Railway station	
Stop, on road	
Underground railway station	
Car-loading train station	

Standard gauge railway multiple tracks, under construction	
Standard gauge railway single-track, under construction	
Narrow gauge railway multiple tracks, under construction	
Narrow gauge railway single-track /light railway, under construction	
Siding	
Gallery	
Tunnel	
Aerial cableway with pylons	
Cable car /chairlift with pylons	
Goods lift /out-of-service cableway with pylons	
Ski lift	
Conveyor	
Lift	
Landing stage	
Car ferry	
Passenger cable ferry, passenger ferry	

## Buildings and constructions

Building	
High-rise building > 25 m	
Open building /greenhouse / flying roof	
Remote inn	
Cooling tower	
Church tower/sacred tower	
Chapel	
Tower	
Observation tower	
Observation tower with antenna	

Large antenna	
Small antenna	
Tall chimney	
Triangulation pyramid	
Shrine/cross	
Monument	
Wind turbine	
Wall, ruin	
Dry wall	
Avalanche barricade	
Sports ground	
Running track	
Ski jump	
Racecourse (horses)	
Toboggan run	
Rifle range	
High-voltage power line	
Airfield, hard-surface runway	
Airfield, grass strip	
Pond, swimming pool	
Fountain	
Water supply facility (reservoir, tank, pumping station)	
Water tower	
Dam	
Dam wall	

## Sites

Airport	
Regional aerodrome	
Airfield	
Heliport	
Campsite	
Golf course	
Allotment	

Cemetery	
Leisure facility/park	
Car park/traffic zone	
Hospital/clinic	
Orchard	
Plant nursery	
Vineyard	
Electrical substation	
Solar power station	
Waste disposal site	

## Boundaries

National border of Switzerland with markers	
National border other countries	
National border disputed	
Cantonal boundary	
District boundary	
Municipal boundary	
National park boundary	

## Water

Spring, waterfall	
Watercourses (stream, river)	
Landing stage	
Lake, lake level, maximum depth	
Lake with varying water level	
Wetland (marsh, reeds, alluvial zone)	
River weirs	
Pressure pipeline, drainage tunnel	
Dry gully	

## Land cover

Contour lines: earth, scree,

lake / glacier

NM10: 10 m

NM25: 10 m (Jura Mtns., Plateau),  
20 m (Alps)

NM50: 20 m

Index contours: earth, scree,  
lake / glacier

NM10: 100 m

NM25: 100 m

NM50: 100 m

Spot height

Escarpment (earth, stone)

Doline, small depression

Gravel pit

Cave / grotto

Quarry

Rock, boulder, debris

Glacier, moraine

Forest

Scattered forest

Scrub

Isolated tree, grove (hedge)

-1800-  
-1800-  
-1800-

x 1587 713



## Lettering

Municipality  
with more than  
100 000 inhabitants

**BASEL**

Municipality  
with 50 000 to  
100 000 inhabitants

**LUGANO**

Municipality  
Place  
District / Quarter  
with 10 000 to  
50 000 inhabitants

**VEVEY**  
**Oerlikon**  
**Bethlehem**

Municipality  
Place  
District / Quarter  
with 2000 to  
10 000 inhabitants

Municipality  
Place  
District / Quarter  
with 1000 to  
2000 inhabitants

Municipality  
Place  
District / Quarter  
with 100 to  
1000 inhabitants

Municipality  
Place  
District / Quarter  
with 50 to  
100 inhabitants

Municipality  
Place  
District / Quarter  
with fewer than  
50 inhabitants

Mountains, hills

Passes

Regions, areas

Rivers, lakes, glaciers

**Sargans**  
**Wabern**  
**Loreto**

**Andermatt**  
**Niederwangen**  
**Chézard**

**Allmendingen**  
**Trübbach**  
**Hardau**

**Zwischbergen**  
**Milken**  
**Casut**

**Kammersrohr**  
**Hofwil**  
**Scherzlige**

**Piz Bernina**  
**Wildhorn**  
**Mont Tendre**  
**Belchenflue**  
**Cima Pescia**

**Passo del Bernina**  
**Col de la Croix**  
**Hohtürli**  
**Tschingelpass**

**Surselva**  
**Kiental**  
**Pfywald**  
**Allmend**  
**Grundwald**  
**Chlistalde**

**Le Léman**  
**Saane**  
**Lac de Joux**  
**Greifensee**  
**Lago Ritóm**  
**Lej dals Chöds**

# National Map 1:100 000

## Roads, tracks

Motorway, under construction	
Expressway, under construction	
10 m Road (> 10 m) hard surface, unsurfaced	
6 m Road (> 6 m) hard surface, unsurfaced	
3 m Road (> 3 m) hard surface, unsurfaced	
2 m Track (> 2 m) hard surface, unsurfaced, not suitable for vehicles	
1 m Track (< 2 m), footbridge	
Signposted route	
Track fragment	
Trunk road	
Main connecting road	
Slip road, motorway interchange	
Service station	
Gallery/covered bridge	
Tunnel	

## Public transport

Railway station, stop	
Stop on road	
Underground railway station	
Car-loading train station	
Standard gauge railway, under construction	
Narrow gauge railway, under construction	

Siding	
Gallery	
Tunnel	
Aerial cableway with pylons	
Cable car/chairlift with pylons	
Goods lift/out-of-service cableway with pylons	
Landing stage	
Car ferry	

## Buildings and constructions

Building	
Open building /greenhouse / flying roof	
Remote inn	
Cooling tower	
Church tower /sacred tower	
Chapel	
Observation tower	
Observation tower with antenna	
Large antenna	
Small antenna	
Triangulation pyramid	
Wind turbine	
Wall	
Ruin	

Monastery	†
Castle	♫
Stadium	○
High-voltage power line	---
Airfield, hard-surface runway	
Airfield, grass strip	
Pond, swimming pool	
Dam, dam wall	

## Sites

Airport	
Regional aerodrome	
Airfield	
Campsite	
Golf course	
Cemetery	
Traffic zone	
Hospital / clinic	
Electrical substation	
Solar power station	

## Boundaries

National border of Switzerland	
National border other countries	
National border disputed	
Cantonal boundary	
National park boundary	

## Water

Waterfall	
Watercourses (stream, river)	
Landing stage	
Lake, lake level, maximum depth	
Lake with varying water level	
Wetland (marsh, reeds, alluvial zone)	
River weirs	
Pressure pipeline	

## Land cover

Contour lines 50 m: earth, scree, lake / glacier	
Index contours 200 m: earth, scree, lake / glacier	
Spot height	
Escarpment (earth, stone)	
Small depression	
Gravel pit	
Quarry	
Forest	
Rock, debris	
Glacier	

Lettering

Place with more than  
100 000 inhabitants

BASEL

Place  
with 50 000  
to 100 000  
inhabitants

LUGANO

Place/district/quarter  
with 10 000  
to 50 000  
inhabitants

VEVEY  
Oerlikon  
Bethlehem

Place/district/quarter  
with 2000  
to 10 000  
inhabitants

Sargans  
Wabern  
Loreto

Place/district/quarter  
with 1000  
to 2000  
inhabitants

Salgesch  
Niederwangen  
Merlach

Place/district/quarter  
with 100  
to 1000  
inhabitants

Allmendingen  
Trübbach  
Selhofen

Place/district/quarter  
with 50  
to 100  
inhabitants

Gampelen  
Martina  
Maran

Place/district/quarter  
with fewer than 50  
inhabitants

Kammersrohr  
Tann  
Zihlbrücke

Mountains, hills

Piz Güglia  
Rothorn  
Mont Sujet  
Belchenflue  
Falkenfluh

Passes

Julierpass  
Col de la Croix

Regions, areas

Mattertal  
Val Schons  
Pfywald  
Allmend  
Breitkamm  
Chlistalde

Rivers, lakes, glaciers

Thunersee  
Lac de Joux  
Greifensee  
Lago Ritóm  
Lej dals Chöds

# National Maps 1:200 000 and 1:300 000

## Roads, tracks

Motorway, under construction	
Expressway, under construction	
6 m Road (> 6 m), under construction	
3 m Road (> 3 m), under construction	
2 m Track (> 2 m)	
1 m Track (< 2 m), footbridge	
Trunk road	
Main connecting road	
Tunnel	

## Public transport

Railway station, stop	
Car-loading train station	
Standard gauge railway, under construction	
Narrow gauge railway, cable railway and aerial cableway under construction	
Tunnel	
Tunnel, under construction	
Museum train	
Car ferry	

## Buildings and constructions

Building	
Large antenna	
Church/sacred building	
Ruin	
Monastery	
Castle	
Stadium	
Dam/dam wall	

## Sites

Airport	
Regional aerodrome	
Airfield	

## Boundaries

National border of Switzerland	
National border other countries	
National border disputed	
Cantonal boundary	
National park boundary	



## Water

Watercourses (stream, river)



Lake, lake level,  
maximum depth



## Land cover

Contour lines 100 m:  
earth, scree, lake/glacier



Index contours 500 m:  
earth, scree, lake/glacier



Spot height



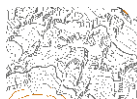
Small depression



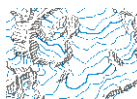
Forest



Rock, debris



Glacier



## Lettering

Place with more than  
1 000 000 inhabitants

**MILANO**

Place with 100 000 to  
1 000 000 inhabitants

**BASEL**

Place with 50 000 to  
100 000 inhabitants

**LUZERN**

Place with 10 000 to  
50 000 inhabitants

**Köniz**

Place with 2000 to  
10 000 inhabitants

**Kerzers**

Place with 100 to  
2000 inhabitants

**Zäziwil**

Place with fewer than  
100 inhabitants

**Gondo**

Mountains, hills

**Matterhorn**  
*Chasseral*  
*Kronberg*  
*Gurten*

Passes

*Furkapass*  
*Gemmipass*

Area names

**Surselva**  
**Entlebuch**  
**Randen**  
*Lavaux*  
*Palfris*

Rivers, lakes, glaciers

**Bodensee**  
**Thunersee**  
*Lac de Morat*  
*Klöntalersee*

# National Map 1:500 000

## Roads, tracks

Motorway with slip road, under construction	
Expressway with slip road, under construction	
6 m Road (> 6 m), under construction	
3 m Road (> 3 m), under construction	
2 m Track (> 2 m)	
1 m Track (< 2 m)	
Trunk road	
Main connecting road	
Tunnel	

## Public transport

Standard gauge railway, under construction	
Narrow gauge railway/cable railway, under construction	
Tunnel	
Tunnel, under construction	
Aerial cableway	
Museum train	
Car ferry	

## Buildings and constructions

Large antenna	
Monastery	
Castle	

## Sites

Airport	
Regional aerodrome	

## Boundaries

National border of Switzerland	
National border other countries	
National border disputed	
Cantonal boundary	
National park boundary	

## Water

Watercourses (stream, river)	
Lake, lake level, maximum depth	

## Land cover

Spot height	
Forest	
Rock	

## Places

more than 1 000 000 inhabitants	<b>MILANO</b>
100 000 to 1 000 000 inhabitants	<b>BASEL</b>
50 000 to 100 000 inhabitants	<b>Luzern</b>
10 000 to 50 000 inhabitants	<b>Köniz</b>
2000 to 10 000 inhabitants	
fewer than 2000 inhabitants	

## Lettering

Mountains, hills	<i>Matterhorn Chasseral Kronberg</i>
Passes	<i>Furkapass</i>
Area names	<i>Surselva Entlebuch Lavaux</i>
Rivers, lakes, glaciers	<i>Thunersee Klöntalersee</i>

# National Map 1:1 Million

## Roads, tracks

Motorway with slip road, under construction	
Expressway with slip road, under construction	
Trunk road	
Main connecting road	
Tunnel	

## Public transport

Standard gauge railway, under construction	
Narrow gauge railway/cable railway, under construction	
Tunnel	

## Sites

Airport	
Regional aerodrome	

## Boundaries

National border of Switzerland	
National border other countries	
National border disputed	
Cantonal boundary	

## Water

Watercourses (stream, river)	
Lake	

## Places

more than 1 000 000 inhabitants		<b>MILANO</b>
100 000 to 1 000 000 inhabitants		<b>Basel</b>
50 000 to 100 000 inhabitants		<b>Luzern</b>
10 000 to 50 000 inhabitants		<b>Köniz</b>
2000 to 10 000 inhabitants		⊙ Kerzers
fewer than 2000 inhabitants		○ Linthal

## Lettering

Mountains, hills	<i>Matterhorn Chasseral</i>
Passes	<i>Furkapass</i>
Spot height	<i>.713</i>
Area names	<i>Alpen Toggenburg</i>
Rivers, lakes	<i>Bodensee Thunersee</i>

# Explanatory notes on the national map

## Topographical map

The Swiss national maps are topographical maps. They show the terrain with all its landforms and features. Representation of the terrain is complemented by its natural and artificial surface cover, including, among other things, woodland, lakes, roads and houses. In addition, the maps contain geographical names, object labels and borders. The spellings are according to the corresponding official source.

## Modern fundamentals

A cartographic database is made up of fundamentals. To that end, landscape data have been collected in the topographical landscape model (TLM) in three-dimensional form. The objects required are selected from the TLM and represented cartographically. The results of all this is known as digital cartographic models (DCM) from which, among other things, the national maps are developed.

## Coordinates

On the national maps, the coordinate lines at right-angles to one another are recorded in the reference system of the Swiss national land survey. Every point in Switzerland can be accurately specified with two numbers. The starting point for the Swiss map projection is in Bern and has the values  $E = 2\,600\,000\text{ m}$  and  $N = 1\,200\,000\text{ m}$ . The first number designates the position in a west-east direction, the second number in a south-north direction.

## Updating

The national maps are updated regularly. The year of issue is shown on the map title page and the date on which the map content was last updated is indicated inside the map. Differences can occur between map and reality owing to continuous changes in the landscape. We would be grateful for details of any changes discovered; these can be reported at [www.swisstopo.ch/revision](http://www.swisstopo.ch/revision).

## Source of supply

[www.swisstopo.ch](http://www.swisstopo.ch)

