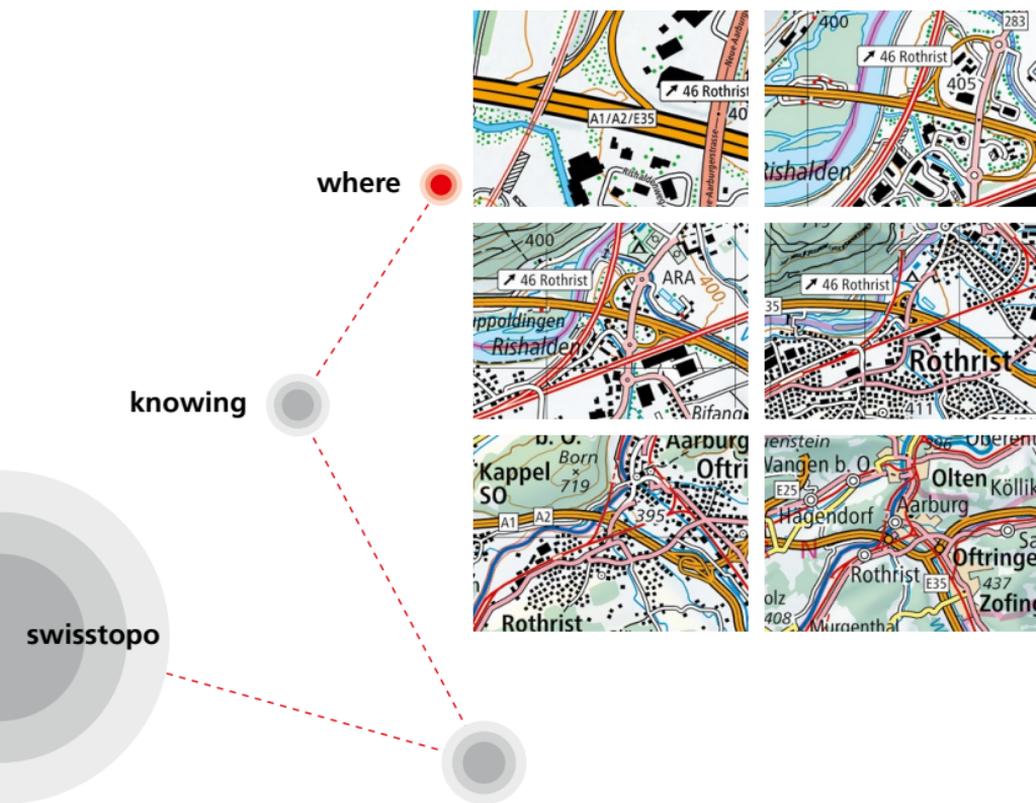


Conventional signs

National Maps 1:10 000 to 1:1 Million



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
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Swiss Confederation

Federal Office of Topography swisstopo
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National Maps 1:10 000, 1:25 000 and 1:50 000

Roads, tracks

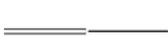
Motorway, under construction 

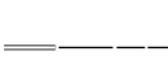
Expressway, under construction 

10 m Road (> 10 m)
hard surface, unsurfaced 

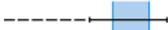
8 m Road (> 8 m)
hard surface, unsurfaced 

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 

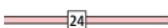
Signposted route 

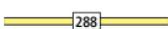
Track fragment 

Via ferrata (NM10) 

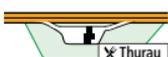
Barrier, traffic ban 

Steps 

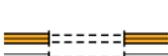
Trunk road 

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 

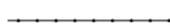
Tunnel 

Aerial cableway with pylons 

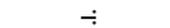
Cable car /chairlift with pylons 

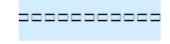
Goods lift /out-of-service
cableway with pylons 

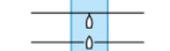
Ski lift 

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 (Lake: 20 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

x 1587 713

Escarpment (earth, stone)



Doline, small depression



Gravel pit



Cave/grotto



Quarry



Rock, boulder, debris



Glacier, moraine



Forest



Scattered forest



Scrub



Isolated tree, grove (hedge)



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

Sargans
Wabern
Loreto

Municipality
Place
District/Quarter
with 1000 to
2000 inhabitants

Andermatt
Niederwangen
Chézard

Municipality
Place
District/Quarter
with 100 to
1000 inhabitants

Allmendingen
Trübbach
Hardau

Municipality
Place
District/Quarter
with 50 to
100 inhabitants

Zwischbergen
Milken
Casut

Municipality
Place
District/Quarter
with fewer than
50 inhabitants

Kammersrohr
Hofwil
Scherzlige

Mountains, hills

Piz Bernina
Wildhorn
Mont Tendre
Bölchflue
Cima Pescia

Passes

Passo del Bernina
Col de la Croix
Hohtürli
Tschingelpass

Regions, areas

Surselva
Kiental
Pfywald
Allmend
Grundwald
Chlitalde

Rivers, lakes, glaciers

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 

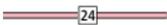
3 m Road (> 3 m)
hard surface, unsurfaced 

2 m Track (> 2 m)
hard surface, unsurfaced,
not suitable for vehicles 

1 m Track (< 2 m), footbridge 

Signposted route 

Track fragment 

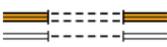
Trunk road 

Main connecting road 

Slip road,
motorway interchange 

Service station 

Gallery/covered bridge 

Tunnel 

Public transport

Railway station, stop 

Stop on road 

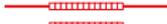
Underground railway station 

Car-loading train station 

Standard gauge railway,
under construction 

Narrow gauge railway,
under construction 

Siding 

Gallery 

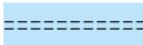
Tunnel 

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
Bölcheflue
Falkenfluh

Passes

Julierpass
Col de la Croix

Regions, areas

Mattertal
Val Schons
Lötschental
Allmend
Val Fristal
Köniztal

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

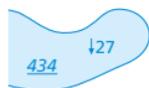
National border of Switzerland	
National border other countries	
National border disputed	
Cantonal boundary	
National park boundary	

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



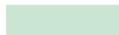
Spot height



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

Räziwil

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		MILANO
100 000 to 1 000 000 inhabitants		BASEL
50 000 to 100 000 inhabitants		Luzern
10 000 to 50 000 inhabitants		Köniz
2000 to 10 000 inhabitants		Kerzers
fewer than 2000 inhabitants		Zäziwil

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		MILANO
100 000 to 1 000 000 inhabitants		Basel
50 000 to 100 000 inhabitants		Luzern
10 000 to 50 000 inhabitants		Köniz
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>Surselva Goms</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.

Source of supply

www.swisstopo.ch

