

INFOHYDRO

Switzerland

Hydrological observation in the country are largely undertaken by Federal Office for the Environment, Federal Office of Meteorology and Climatology

The following information pertaining to:

Federal Office for the Environment, Federal Office of Meteorology and Climatology

Preliminary information

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Percentage of coverage represented by these data:

N/A

Last update:

03/03/2006

Preliminary information

Main unit of institution name (*Base name of an institution, usually the name of the governing body*)

Subordinate unit of institution name (*Part of a name of an institution that defines a subdivision or department or unit of the institution*)

Abbreviated name

Full mailing address (*of the Institution*)

Full location address (*of the Institution*). Indicate only if not the same then mailing address

Telephone number (*Central operator*)

Telefacsimile number (*Central operator*)

Electronic mail identifier (*E-mail address*)

Host system network address (*Web site address*)

Switzerland

Federal Office for the Environment, Federal Office of Meteorology and Climatology

Hydrology Division

FOEN, MeteoSwiss

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Preliminary information		Switzerland
Protocol options (<i>Code, word or phrase that specifies capabilities that are supported by a service provider ; "yes" -If activity undertaken - "no" otherwise</i>)	General Hydrology	yes
	Hydropower	yes
	Agriculture	yes
	Water supply	yes
	Flood control	yes
	Pollution control	yes
	Navigation	no
	Others (<i>please specify</i>)	
Coverage	National (<i>if not leave blank</i>)	yes
	Other (Regional, State, Province...)	
Types of stations operated	Hydrometric	yes
	Groundwater	yes
	Climate	yes
	Snow	yes
	Lake levels	yes
	Glaciers	yes
	Estuaries	no
	Ice thickness	yes
	Soil Moisture	yes
	Sediment	yes
	Water quality	yes
Bio diversity	no	
Geographical Descriptors	Area of country or region (State) (<i>km²</i>)	41925 km2
	Mean Annual Precipitation (<i>mm</i>)	1'456 mm/year (1901-1980)
	Standard Deviation of Annual Precipitation (<i>mm</i>)	-
	General climate (<i>Tropical,sub-tropical, Arid, semi-arid, temperate etc...</i>)	temperate zone

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Pluviographs - Continuous Precipitation Recording		Switzerland
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		100
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	no
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	3
	5 years to 10 years	1
	11 years to 30 years	72
	Greater than 30 years	24
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	100
	Radio	
	Satellite	
	Others (<i>Please specify and give number operating</i>)	
Method used to estimate precipitation (<i>Number of sites currently operating</i>)	Tipping Bucket	75
	Siphon	
	Others (<i>Please specify and give number operating</i>)	25 / Hellmann
Number of radar stations located in the country (<i>Number of sites</i>)		3
Date that this information was last updated (<i>month and year</i>)		
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Daily Precipitation		Switzerland
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		340
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	no
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	4
	5 years to 10 years	24
	11 years to 30 years	44
	Greater than 30 years	268
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	
	Radio	
	Satellite	
	Post/Collected	340
	Others (<i>Please specify and give number operating</i>)	
Date that this information was last updated (<i>month and year</i>)		
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Evaporation		Switzerland
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		0
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		0
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	no
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	0
	5 years to 10 years	0
	11 years to 30 years	0
	Greater than 30 years	0
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	
	Radio	
	Satellite	
	Post/Collected	
	Others (<i>Please specify and give number operating</i>)	
Method used to estimate evaporation (<i>Yes -If activity undertaken- No, otherwise</i>)	Direct measurement	no
	Indirect calculation	no
Date that this information was last updated (<i>month and year</i>)		
Are the data: Available in an electronic medium (<i>yes or no</i>)		no
Stored in a database (<i>yes or no</i>)		no

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Stage non-recording		Switzerland
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		
Number of sites at which measurements are taken (<i>Number of sites currently operating</i>)		0
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	
	5 years to 10 years	
	11 years to 30 years	
	Greater than 30 years	
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	
	Post/Collected	
	Others (<i>Please specify and give number operating</i>)	
Method used to estimate stage (<i>Yes -If activity undertaken. -No- otherwise</i>)	Gauge-board	no
	Others (<i>Please specify</i>)	
Date that this information was last updated (<i>month and year</i>)		12-2005
Are the data: Available in an electronic medium (<i>yes or no</i>)		
Stored in a database (<i>yes or no</i>)		

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Stage recording		Switzerland
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		10 min
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		34
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Specify if Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	0
	5 years to 10 years	1
	11 years to 30 years	4
	Greater than 30 years	29
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	29
	Radio	0
	Satellite	0
	Post/Collected	5
	Others (<i>Please specify and give number operating</i>)	0
Method used to estimate stage (<i>Yes -If activity undertaken. -No- otherwise</i>)	Gauge-board	no
	Float Well	yes
	Gas-pressure	yes
	Others (<i>Please specify</i>)	Radar
Date that this information was last updated (<i>month and year</i>)		12-2005
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Discharge non-recording		Switzerland
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		
Number of sites at which measurements are taken (<i>Number of sites currently operating</i>)		0
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	no
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	
	5 years to 10 years	
	11 years to 30 years	
	Greater than 30 years	
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	
	Post/Collected	
	Others (<i>Please specify and give number operating</i>)	
Method used to determine stage (<i>Yes -If activity undertaken- No, otherwise</i>)	Direct measurement (<i>Gauge Boards</i>)	
	Indirect calculation	
Method used to estimate discharge (<i>Yes -If activity undertaken. -No- otherwise</i>)	Rating Curve	
	Others (<i>Please specify</i>)	
Date that this information was last updated (<i>month and year</i>)		12-2005
Are the data: Available in an electronic medium (<i>yes or no</i>)		
Stored in a database (<i>yes or no</i>)		

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Discharge recording		Switzerland
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		10 min
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		185
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	0
	5 years to 10 years	0
	11 years to 30 years	52
	Greater than 30 years	133
Method of transmission of data from sites and number of sites using this method of transmission (<i>Number of sites currently operating</i>)	Telephone	169
	Radio	0
	Satellite	0
	Post/Collected	16
	Others (<i>Please specify and give number operating</i>)	
Method used to determine stage (<i>Yes -If activity undertaken- No, otherwise</i>)	Gauge-board	no
	Float Well	yes
	Gas-pressure	yes
	Others (<i>Please specify</i>)	Radar
Method used to estimate discharge (<i>Yes -If activity undertaken- No, otherwise</i>)	Rating Curve	yes
	Others (<i>Please specify</i>)	
Date that this information was last updated (<i>month and year</i>)		12-2005
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Groundwater		Switzerland
Recording frequency	Non-continuous	
	Continuous	56
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		56
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	44
	5 years to 10 years	6
	11 years to 30 years	4
	Greater than 30 years	2
Date that this information was last updated (<i>month and year</i>)		01-2006
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes
Are water quality data taken (<i>yes or no</i>)		yes

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Sediment		Switzerland
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Twice per week
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		12
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	yes
	Other (<i>Regional, State, Province...</i>)	
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	3
	5 years to 10 years	
	11 years to 30 years	4
	Greater than 30 years	5
Date that this information was last updated (<i>month and year</i>)		month
Are the data: Available in an electronic medium (<i>yes or no</i>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Water quality		Switzerland
Data routinely measured (Yes -if activity undertaken. -No- otherwise)	Water Temperature	yes
	Air Temperature	yes
	pH	yes
	Specific Conductivity	yes
	Dissolved Oxygen	yes
	Turbidity	no
	Major ions	yes
	Metals	no
	Organics	no
	Pesticides	no
	Herbicides	no
	Mercury	no
	Phenols	no
	Nutrients	yes
BOD & COD	no	
POPs	no	
Others (Please specify)		
Number of sites at which recordings are taken (Number of sites currently operating)		16
Level of responsibility for national coverage (Yes if "National" or specify "Other" but not both)	National (if not leave blank)	yes
	Other (Regional, State, Province...)	
Tabular information on the number of stations operated for different time periods (Number of sites currently operating)	Less than 5 years	5
	5 years to 10 years	4
	11 years to 30 years	1
	Greater than 30 years	6
Date that this information was last updated (month and year)		03-2006
Are the data: Available in an electronic medium (yes or no)		yes
Stored in a database (yes or no)		yes