

INFOHYDRO

Chile

Hydrological observation in the country are largely undertaken by
 DIRECCION GENERAL DE AGUAS
 MINISTERIO DE OBRAS PUBLICAS



The following information pertaining to:

DIRECCION GENERAL DE AGUAS
 MINISTERIO DE OBRAS PUBLICAS

Preliminary information

Pluviographs - Continuous Precipitation Recording

Daily Precipitation

Evaporation

Stage non-recording

Stage recording

Discharge non-recording

Discharge recording

Groundwater

Sediment

Water quality

Percentage of coverage represented by these data:

N/A

Last update:

13/07/2007

Preliminary information

Chile

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

DIRECCION GENERAL DE AGUAS
 MINISTERIO DE OBRAS PUBLICAS

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

DEPARTAMENTO DE HIDROLOGIA
 de la DIRECCION GENERAL DE AGUAS

Abbreviated name

DGA

Full mailing address (*of the Institution*)

DIRECCION GENERAL DE AGUAS
 MINISTERIO DE OBRAS PUBLICAS
 Morandé 59, piso 8
 Santiago
 CHILE

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

-

Telephone number (*Central operator*)

56-2-4493757

Telefacsimile number (*Central operator*)

56-2-4493759

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Host system network address (*Web site address*)

www.dga.cl

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Preliminary information		Chile
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	no
	Agriculture	no
	Water supply	no
	Flood control	no
	Pollution control	no
	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	no
	Snow	yes
	Lake levels	yes
	Glaciers	yes
	Estuaries	no
	Ice thickness	yes
	Soil Moisture	no
	Sediment	yes
	Water quality	yes
Bio diversity	no	
Geographical Descriptors	Area of country or region (State) (<i>km²</i>)	750,000 Km2
	Mean Annual Precipitation (<i>mm</i>)	Por extensión latitudinal, de 1 mm a 5000 mm
	Standard Deviation of Annual Precipitation (<i>mm</i>)	-
	General climate (<i>Tropical,sub-tropical, Arid, semi-arid, temperate etc...</i>)	Todos los enunciados, menos el tropical

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Pluviographs - Continuous Precipitation Recording		Chile
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		138
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	52
	5 years to 10 years	34
	11 years to 30 years	26
	Greater than 30 years	26
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	71
	Others (<i>Please specify and give number operating</i>)	67 Recopilación mensual
Method used to estimate precipitation (<i>Number of sites currently operating</i>)	Tipping Bucket	80
	Siphon	58
	Others (<i>Please specify and give number operating</i>)	-
Number of radar stations located in the country (<i>Number of sites</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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Daily Precipitation		Chile
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		442
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	4
	5 years to 10 years	26
	11 years to 30 years	194
	Greater than 30 years	218
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	442
	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		Chile
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Diaria (12 UTC)
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		110
Level of responsibility for national coverage (<i>Yes if "National" or specify "Other" but not both</i>)	National (<i>if not leave blank</i>)	-
	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	1
	5 years to 10 years	14
	11 years to 30 years	52
	Greater than 30 years	43
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	110
	Post/Collected	-
Method used to estimate evaporation (<i>Yes -If activity undertaken- No, otherwise</i>)	Others (<i>Please specify and give number operating</i>)	-
	Direct measurement	yes
	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>)		yes
Stored in a database (<i>yes or no</i>)		yes

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Stage non-recording		Chile
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Considera sólo embalses y lagos 1 medición diaria
Number of sites at which measurements are taken (<i>Number of sites currently operating</i>)		31
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	8
	5 years to 10 years	9
	11 years to 30 years	8
	Greater than 30 years	6
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	31
	Others (<i>Please specify and give number operating</i>)	-
Method used to estimate stage (<i>Yes -If activity undertaken. -No- otherwise</i>)	Gauge-board	yes
	Others (<i>Please specify</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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Stage recording		Chile
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Considera sólo embalses y lagos Cada 1 hora
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		21
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	10
	5 years to 10 years	4
	11 years to 30 years	7
	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	-
	Radio	-
	Satellite	11
	Post/Collected	10
	Others (<i>Please specify and give number operating</i>)	-
Method used to estimate stage (<i>Yes -If activity undertaken. -No- otherwise</i>)	Gauge-board	yes
	Float Well	yes
	Gas-pressure	yes
	Others (<i>Please specify</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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Discharge non-recording		Chile
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		2 mediciones al dia
Number of sites at which measurements are taken (<i>Number of sites currently operating</i>)		11
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	2
	5 years to 10 years	-
	11 years to 30 years	6
	Greater than 30 years	3
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	11
	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>)	yes
	Indirect calculation	-
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>)		-
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 recording		Chile
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Electrónico cada hora Gráfico continuo
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		427
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	61
	5 years to 10 years	51
	11 years to 30 years	130
	Greater than 30 years	185
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	130
	Post/Collected	297
Method used to determine stage (<i>Yes -If activity undertaken- No, otherwise</i>)	Others (<i>Please specify and give number operating</i>)	-
	Gauge-board	yes
	Float Well	yes
	Gas-pressure	yes
Method used to estimate discharge (<i>Yes -If activity undertaken- No,</i>	Others (<i>Please specify</i>)	-
	Rating Curve	yes
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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Groundwater		Chile
Recording frequency	Non-continuous	-
	Continuous	650
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		650
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>)	Regiones I a VI
Tabular information on the number of stations operated for different time periods (<i>Number of sites currently operating</i>)	Less than 5 years	70
	5 years to 10 years	54
	11 years to 30 years	248
	Greater than 30 years	278
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
Are water quality data taken (<i>yes or no</i>)		yes

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Sediment		Chile
Recording frequency (<i>Instantaneous, seconds, minutes, hours, days, etc.</i>)		Diaria
Number of sites at which recordings are taken (<i>Number of sites currently operating</i>)		83
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	7
	5 years to 10 years	6
	11 years to 30 years	41
	Greater than 30 years	29
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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Water quality		Chile
Data routinely measured (Yes -if activity undertaken. -No- otherwise)	Water Temperature	yes
	Air Temperature	yes
	pH	yes
	Specific Conductivity	yes
	Dissolved Oxygen	yes
	Turbidity	yes
	Major ions	yes
	Metals	yes
	Organics	no
	Pesticides	no
	Herbicides	no
	Mercury	yes
	Phenols	no
	Nutrients	yes
BOD & COD	yes	
POPs	no	
Others (Please specify)	Clorofila	
Number of sites at which recordings are taken (Number of sites currently operating)		480
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 years to 10 years	-
	11 years to 30 years	-
	Greater than 30 years	-
Date that this information was last updated (month and year)		-
Are the data: Available in an electronic medium (yes or no)		yes
Stored in a database (yes or no)		yes