

Users are advised to consult the Canadian Environmental Quality Guidelines introductory text, factsheet, and/or protocols for specific information and implementation guidance pertaining to each environmental quality guideline.

		Water Quality Guidelines for the Protection of Agriculture			
		Irrigation		Livestock	
		Concentration (µg/L)	Date	Concentration (µg/L)	Date
Chemical name	Chemical groups				
1,1,1-Trichloroethane <b>CASRN 71556</b>	Organic Halogenated aliphatic compounds Chlorinated ethanes	Insufficient data	1991	Insufficient data	1991
1,1,2,2- Tetrachloroethene PCE (Tetrachloroethylene) <b>CASRN 127184</b>	Organic Halogenated aliphatic compounds Chlorinated ethenes	Insufficient data	1993	Insufficient data	1993
1,1,2,2-Tetrachlorethane <b>CASRN 79345</b>	Organic Halogenated aliphatic compounds Chlorinated ethanes	Insufficient data	1991	Insufficient data	1991
1,1,2-Trichloroethene TCE (Trichloroethylene) <b>CASRN 79-01-6</b>	Organic Halogenated aliphatic compounds Chlorinated ethenes	Insufficient data	1991	50	1991
1,2,3,4-Tetrachlorobenzene <b>CASRN 634662</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,2,3,5-Tetrachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,2,3-Trichlorobenzene <b>CASRN 87616</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,2,4,5-Tetrachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997

1,2,4-Trichlorobenzene <b>CASRN 120801</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,2-Dichlorobenzene <b>CASRN 95501</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,2-Dichloroethane <b>CASRN 1070602</b>	Organic Halogenated aliphatic compounds Chlorinated ethanes	Insufficient data	1991	5	1991
1,3,5-Trichlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,3-Dichlorobenzene <b>CASRN 541731</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
1,4-Dichlorobenzene <b>CASRN 106467</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
Aldicarb <b>CASRN 116063</b>	Organic Pesticides Carbamate pesticides	54.9	1993	11	1993
Aluminium	Inorganic Metals	5000	1987	5000	1987
Aniline <b>CASRN 62533</b>	Organic	Insufficient data	1993	Insufficient data	1993
Arsenic <b>CASRN none</b>	Inorganic Metals	100	1997	25	1997
Atrazine <b>CASRN 1912249</b>	Organic Pesticides Triazine compounds	10	1989	5	1989
Beryllium	Inorganic Metals	100	1987	100	1987
Boron	Inorganic Metals	Variable	1987	5000	1987

Bromacil <b>CASRN 314409</b>	Organic Pesticides	0.2	1997	1100	1997
Bromoxynil	Organic Pesticides Benzonitrile compounds	0.33	1993	11	1993
Cadmium <b>CASRN 7440439</b>	Inorganic Metals	5.1	1996	80	1996
Calcium	Inorganic Metals	No data	No data	1 000 000	1987
Captan <b>CASRN 133062</b>	Organic Pesticides	Insufficient data	1991	13	1991
Carbaryl <b>CASRN 63252</b>	Organic Pesticides Carbamate pesticides	Insufficient data	1997	1100	1997
Carbofuran <b>CASRN 1564662</b>	Organic Pesticides Carbamate pesticides	Insufficient data	1989	45	1989
Chlordane	Organic Pesticides Organochlorine compounds	<i>No data</i>	<i>No data</i>	7	1987
Chloride	Inorganic	Variable	1987	<i>No data</i>	<i>No data</i>
Chlorothalonil <b>CASRN 1897456</b>	Organic Pesticides	5.8 (other crops)	1994	170	1994
Chlorpyrifos <b>CASRN 2921882</b>	Organic Pesticides Organophosphorus compounds	Insufficient data	1997	24	1997
Chromium, hexavalent (Cr(VI)) <b>CASRN 7440473</b>	Inorganic Metals	8	1997	50	1997
Chromium, trivalent (Cr(III)) <b>CASRN 7440473</b>	Inorganic Metals	4.9	1997	50	1997

Cobalt	Inorganic Metals	50	1987	1000	1987
Coliforms, fecal (Escherichia coli) E. coli	Biological	100 per 100 mL	1987	No data	No data
Coliforms, total Coliforms	Biological	1000 per 100 mL	1987	No data	No data
Colour  CASRN N/A	Physical	No data	No data	Narrative	1999
Copper	Inorganic Metals	Variable	1987	Variable	1987
Cyanazine  CASRN 2175462	Organic Pesticides Triazine compounds	0.5	1990	10	1990
Cyanobacteria Blue-green algae	Biological	No data	No data	Narrative	1999
Deltamethrin  CASRN 52918635	Organic Pesticides	Insufficient data	1997	2.5	1997
Dibromochloromethane	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	100	1992
Dicamba  CASRN 1918009	Organic Pesticides Aromatic Carboxylic Acid	0.006	1993	122	1993
Dichloro diphenyl trichloroethane; 2,2-Bis(p-chlorophenyl)-1,1,1- trichloroethane DDT (total)	Organic Pesticides Organochlorine compounds	No data	No data	∞	1987
Dichlorobromomethane	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	100	1992
Dichloromethane Methylene chloride CASRN 75092	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	50	1992

Diclofop-methyl <b>CASRN 51338273</b>	Organic Pesticides	0.18	1993	9	1993
Diethylene glycol <b>CASRN 111466</b>	Organic Glycols	Insufficient data	1997	Insufficient data	1997
Diisopropanolamine DIPA <b>CASRN 110974</b>	Organic	2 000	2006	Insufficient data	2006
Dimethoate <b>CASRN 60515</b>	Organic Pesticides Organophosphorus compounds	Insufficient data	1993	3	1993
Dinoseb <b>CASRN 88857</b>	Organic Pesticides	16	1992	150	1992
Endrin	Organic Pesticides Organochlorine compounds	<i>No data</i>	<i>No data</i>	0.2	1987
Ethylbenzene <b>CASRN 100414</b>	Organic Monocyclic aromatic compounds	Insufficient data	1996	2.4	1996
Ethylene glycol <b>CASRN 107211</b>	Organic Glycols	Insufficient data	1997	Insufficient data	1997
Fluoride	Inorganic	1000	1987	Variable	1987
Glyphosate <b>CASRN 1071836</b>	Organic Pesticides Organophosphorus compounds	<i>No data</i>	<i>No data</i>	280	1989
Heptachlor Heptachlor epoxide	Organic Pesticides Organochlorine compounds	<i>No data</i>	<i>No data</i>	3	1987
Hexachlorobenzene	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	0.52	1991
Hexachlorocyclohexane Lindane	Organic Pesticides Organochlorine compounds	<i>No data</i>	<i>No data</i>	4	1987

Iron	Inorganic Metals	5000	1987	No data	No data
Lead	Inorganic Metals	200	1987	100	1987
Linuron <b>CASRN 41205214</b>	Organic Pesticides	0.071	1995	Insufficient data	1995
Lithium	Inorganic Metals	2500	1987	No data	No data
Manganese	Inorganic Metals	200	1987	No data	No data
Mercury <b>CASRN 7439976</b>	Inorganic Metals	No data	No data	3	1987
Methylchlorophenoxyacetic acid (4-Chloro-2-methyl phenoxy acetic acid; 2-Methyl-4-chloro phenoxy acetic acid) MCPA <b>CASRN 94746</b>	Organic Pesticides	0.025	1995	25	1995
Metolachlor <b>CASRN 51218452</b>	Organic Pesticides Organochlorine compounds	28	1991	50	1991
Metribuzin <b>CASRN 21087649</b>	Organic Pesticides Triazine compounds	0.5	1990	80	1990
Molybdenum	Inorganic Metals	Narrative	1987	500	1987
Monobromomethane Methyl bromide	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	Insufficient data	1992
Monochlorobenzene <b>CASRN 108907</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
Monochloromethane Methyl chloride	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	Insufficient data	1992

Nickel	Inorganic Metals	200	1987	1000	1987
Nitrate + Nitrite	Inorganic Inorganic nitrogen compounds	<i>No data</i>	<i>No data</i>	100 000 NO <sub>3</sub> +NO <sub>2</sub> -N	1987
Nitrite	Inorganic Inorganic nitrogen compounds	<i>No data</i>	<i>No data</i>	10 000 NO <sub>2</sub> -N	1987
Pentachlorobenzene <b>CASRN 608935</b>	Organic Monocyclic aromatic compounds Chlorinated benzenes	Insufficient data	1997	Insufficient data	1997
Phenols (mono- & dihydric) <b>CASRN 108952</b>	Organic Aromatic hydroxy compounds	<i>No data</i>	<i>No data</i>	2	1987
Phenoxy herbicides 2,4 D; 2,4-Dichlorophenoxyacetic acid	Organic Pesticides	<i>No data</i>	<i>No data</i>	100	1987
Picloram <b>CASRN 1918021</b>	Organic Pesticides	Insufficient data	1990	190	1990
Propylene glycol <b>CASRN 57556</b>	Organic Glycols	Insufficient data	1997	Insufficient data	1997
Selenium	Inorganic Metals	Variable	1987	50	1987
Simazine <b>CASRN 122349</b>	Organic Pesticides Triazine compounds	0.5	1991	10	1991
Sodium adsorption ratio SAR		<i>No data</i>	<i>No data</i>	<i>No data</i>	<i>No data</i>
		<b>Concentration (µg/L)</b>	<b>Date</b>	<b>Concentration (µg/L)</b>	<b>Date</b>
<b>Chemical name</b>	<b>Chemical groups</b>				
Sulfolane Bondelane <b>CASRN 126330</b>	Organic Organic sulphur compound	500	2005	Insufficient data	2005
Sulphate	Inorganic Inorganic sulphur compounds	<i>No data</i>	<i>No data</i>	1 000 000	1987

Tebuthiuron <b>CASRN 34014181</b>	Organic Pesticides	0.27 (cereals, tame hays, and pastures)	1995	130	1995
Tetrachloromethane Carbon tetrachloride <b>CASRN 56235</b>	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	5	1992
Toluene <b>CASRN 108883</b>	Organic Monocyclic aromatic compounds	Insufficient data	1996	24	1996
Total dissolved solids (salinity) TDS	Physical Turbidity, clarity and suspended solids	Variable	1987	3 000 000	1987
Toxaphene	Organic Pesticides Organochlorine compounds	<i>No data</i>	<i>No data</i>	5	1987
Triallate <b>CASRN 2303175</b>	Organic Pesticides Carbamate pesticides	Insufficient data	1992	230	1992
Tribromomethane Bromoform	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	100	1992
Tributyltin	Organic Organotin compounds	Insufficient data	1992	250	1992
Trichloromethane Chloroform <b>CASRN 67663</b>	Organic Halogenated aliphatic compounds Halogenated methanes	Insufficient data	1992	100	1992
Tricyclohexyltin	Organic Organotin compounds	Insufficient data	1992	250	1992
Trifluralin <b>CASRN 1582098</b>	Organic Pesticides Dinitroaniline pesticides	Insufficient data	1992	45	1992
Triphenyltin	Organic Organotin compounds	Insufficient data	1992	820	1992
Uranium <b>CASRN 7440-61-1</b>	Inorganic Metals	10	1987	200	1987
Vanadium	Inorganic Metals	100	1987	100	1987



Zinc	Inorganic Metals	Equation	1987	50 000	1987
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Chemical name		Chemical groups
Sodium adsorption ratio SAR		