

## DUREZZA E PARAMETRI CHIMICO-FISICI DELLE ACQUE POTABILI DEL CANTONE TICINO

Durezza totale in gradi francesi (\*fr)

1 fr = 0,1 mmol/l = 10 mg/l di carbonato di calcio dissolto in acqua

16 - 25 fr = molto dolce

26 - 32 fr = media durezza

33 - 42 fr = dura

\* Possibili variazioni dovute alla variabilità delle fonti di approvvigionamento

() Tra parentesi le zone di distribuzione con la stessa acqua

Comune	Quartiere - Zona	pH	Durezza tot mmol/l	Durezza tot *fr	Ammonio mg/l	Bromuro mg/l	Calcio mg/l	Cloruro mg/l	Fluoruro mg/l	Fosfato mg/l	Magnesio mg/l	Nitrato mg/l	Potassio mg/l	Sodio mg/l	Solfato mg/l
Acquarossa Castro		8.1	1.2	< 0.05	< 0.01	29.9	0.2	0.05	< 0.01	11.1	0.9	< 0.01	1.5	1.2	49.1
Corzoneso - Peese		7.4	0.3	3	< 0.05	< 0.01	12.0	0.2	0.31	< 0.01	1.1	4.2	< 0.01	0.9	1.8
Corzoneso - Piano		7.5	0.4	4	< 0.05	< 0.01	15.1	0.3	0.41	< 0.01	1.4	< 0.01	1.1	3.4	14.9
Dorgio		7.1	0.3	3	< 0.05	< 0.01	11.4	0.5	0.28	< 0.01	0.9	2.5	< 0.01	1.1	2.1
Largario		7.1	0.4	4	< 0.05	< 0.01	14.0	0.3	0.06	< 0.01	1.4	2.4	< 0.01	1.5	1.8
Leonitica		6.5	0.1	1	< 0.05	< 0.01	3.3	0.3	0.06	0.02	1.1	3.1	< 0.01	1.5	2.1
Lottigna		8.1	0.9	9	< 0.05	< 0.01	26.6	0.2	0.24	< 0.01	5.2	1.7	< 0.01	3.0	1.8
Marolta		7.8	1.6	16	< 0.05	< 0.01	48.1	0.4	0.05	< 0.01	10.5	< 0.01	3.4	1.8	13.8
Ponto Valentino		7.7	0.6	6	< 0.05	< 0.01	18.9	0.4	< 0.05	< 0.01	3.6	4.7	< 0.01	2.2	1.6
Ponto Valentino - Campagna		8.1	1.2	12	< 0.05	< 0.01	29.9	0.2	0.05	< 0.01	11.2	0.9	< 0.01	1.6	1.2
Pruigasco		8.1	1.2	12	< 0.05	< 0.01	30.1	0.2	0.05	< 0.01	11.2	0.9	< 0.01	1.6	1.2
Agno Agno		6.1	1.1	11	< 0.05	< 0.01	27.4	7.5	< 0.05	< 0.01	10.5	7.6	< 0.01	2.2	7.1
Altro Alirolo		7.9	0.9	9	< 0.05	< 0.01	29.1	1.1	< 0.05	< 0.01	5.1	2.4	< 0.01	2.9	1.5
Brughasco		8.0	0.8	8	< 0.05	< 0.01	22.5	0.3	0.09	< 0.01	4.8	0.5	< 0.01	2.2	1.5
Di là dell'Acqua - Sotto Nante		8.1	1.2	12	< 0.05	< 0.01	41.9	0.4	< 0.05	< 0.01	3.4	2.6	< 0.01	1.8	18.8
Fontana		8.1	1.1	11	< 0.05	< 0.01	39.2	0.1	< 0.05	< 0.01	3.9	1.4	< 0.01	2.1	1.0
Madano		7.9	0.9	9	< 0.05	< 0.01	29.1	1.1	< 0.05	< 0.01	5.1	2.4	< 0.01	2.9	1.6
Nante		8.1	0.9	9	< 0.05	< 0.01	31.8	0.1	< 0.05	< 0.01	2.3	1.6	< 0.01	1.5	1.0
Alto Malcantone Arosio		5.8	0.2	2	< 0.05	< 0.01	6.9	0.6	0.05	< 0.01	1.2	5.5	< 0.01	0.9	2.2
Breno		5.8	0.6	6	< 0.05	< 0.01	19.6	0.7	0.10	< 0.01	2.5	4.8	< 0.01	1.0	2.6
Fescoggia		5.6	0.3	3	< 0.05	< 0.01	9.3	0.3	< 0.05	< 0.01	1.3	3.6	< 0.01	1.0	1.8
Mugena		5.7	0.3	3	0.08	< 0.01	9.4	0.3	< 0.05	< 0.01	1.3	3.6	< 0.01	1.0	1.8
Vezio		5.7	0.3	3	< 0.05	< 0.01	9.3	0.3	< 0.05	< 0.01	1.3	3.6	< 0.01	1.0	1.8
Aranzo Aranzio		6.1	0.3	3	< 0.05	< 0.01	10.9	0.3	0.05	< 0.01	1.4	3.4	< 0.01	1.1	3.6
Arbedo-Castione Zona Alta		6.0	0.5	5	< 0.05	< 0.01	16.7	0.5	0.05	< 0.01	1.7	3.5	< 0.01	1.3	2.2
Zona Bassa		6.1	1.2	12	< 0.05	< 0.01	42.0	0.4	0.05	< 0.01	3.4	2.6	< 0.01	2.3	2.5
Arogno Arogno		8.0	1.5	15	< 0.05	< 0.01	53.4	1.7	0.06	< 0.01	3.7	4.2	< 0.01	0.3	4.1
Ascona Zona Alta		6.3	0.9	9	< 0.05	< 0.01	28.9	0.7	0.05	< 0.01	3.7	3.2	< 0.01	1.1	2.4
Zona Bassa		6.7	1.1	11	< 0.05	< 0.01	29.3	2.8	0.07	< 0.01	7.8	8.3	< 0.01	1.7	3.6
Astano Astano		5.8	0.5	5	< 0.05	< 0.01	14.7	2.2	0.08	< 0.01	4.2	6.1	< 0.01	1.3	11.5
Avegno - Gordobio Avegno		7.4	0.2	2	< 0.05	< 0.01	6.0	0.6	0.05	0.02	1.5	5.7	< 0.01	1.1	2.5
Gordovio		7.6	0.2	2	< 0.05	< 0.01	6.9	0.3	0.05	< 0.01	1.2	3.5	< 0.01	1.1	3.1
Balerna Balema		7.7	2.5	25	< 0.05	< 0.01	82.3	10.8	0.10	< 0.01	9.9	8.2	< 0.01	2.0	6.6
Bedano Bedano		6.0	0.9	9	< 0.05	< 0.01	26.8	8.2	0.06	< 0.01	5.8	< 0.01	2.5	14.9	18.0
Bedigliora Banco - Nerocco		5.8	0.4	4	< 0.05	< 0.01	12.9	0.6	0.09	< 0.01	1.3	4.9	< 0.01	0.7	3.9
Bedigliora Beride - Beride		5.8	0.3	3	< 0.05	< 0.01	9.7	0.6	0.08	< 0.01	0.7	3.8	< 0.01	0.6	2.5
Feredino - Brivio		5.9	0.3	3	< 0.05	< 0.01	9.1	0.6	0.08	< 0.01	1.2	3.4	< 0.01	0.6	3.5
Bedretto Bedretto		6.9	0.1	1	< 0.05	< 0.01	4.7	0.1	0.39	< 0.01	0.2	1.0	< 0.01	0.5	2.0
Cossacco		8.1	1.3	13	< 0.05	< 0.01	40.3	0.1	< 0.05	< 0.01	6.3	0.8	< 0.01	2.3	1.1
Ronco		7.0	1.3	1	< 0.05	< 0.01	4.9	0.1	0.39	< 0.01	0.2	1.0	< 0.01	0.5	2.7
Villa		8.1	0.8	8	< 0.05	< 0.01	23.3	0.1	0.07	< 0.01	4.4	0.9	< 0.01	4.1	1.4





Comune	Quartiere - Zona	pH	Durezza tot mmoll/l	Durezza tot %fr	Ammonio mg/l	Bromuro mg/l	Calcio mg/l	Cloruro mg/l	Fluoruro mg/l	Fosfato mg/l	Magnesio mg/l	Nitrato mg/l	Potassio mg/l	Sodio mg/l	Solfato mg/l
Carlo Cattaneo		7.5	0.4	4	< 0.05	< 0.01	12.7	0.3	0.07	< 0.01	0.8	1.3	< 0.01	1.5	1.4
Chiasso Chiasso Pedemonte Sosedilio		7.8	1.7	17	< 0.05	< 0.01	62.1	3.0	0.07	< 0.01	4.3	8.1	< 0.01	0.5	1.8
Colferiero Colferiero Collina d'Oro		7.8	2.6	26	< 0.05	0.01	85.4	11.0	0.10	< 0.01	10.1	7.6	< 0.01	2.0	6.7
Comano Comano		7.8	2.4	24	< 0.05	< 0.01	77.0	7.8	0.09	< 0.01	11.6	8.6	< 0.01	1.5	6.0
Corippo Corippo		7.8	3.4	34	< 0.05	< 0.01	92.4	12.5	0.06	< 0.01	26.2	15.0	< 0.01	1.5	7.1
Croglio Castelrotto Madonina del Piano (Crotello, Barico, Purasca)		7.7	1.4	14	< 0.05	< 0.01	23.3	5.0	0.12	< 0.01	19.8	5.0	< 0.01	2.4	15.0
Cugnasco-Gerra Agarone Cugnasco Gerra Piano Pian Restell		7.8	0.9	9	< 0.05	< 0.01	19.2	4.5	0.08	< 0.01	9.6	6.1	< 0.01	2.0	11.5
Cureglio Cureglio Curio Bombinasco		5.7	0.7	7	< 0.05	< 0.01	18.6	5.8	0.06	< 0.01	6.2	7.7	< 0.01	1.6	5.1
Dalpe Dalpe		6.0	0.7	7	< 0.05	< 0.01	14.3	4.0	0.2	< 0.01	0.4	2.9	< 0.01	0.4	1.1
Faido Anzonico Calonico Calipigna Campello Cari Cavagnago Chiggiogna Chironico Faido - Chinchenago Faido - Zona Ospedale Faido Lavorio Marinengo Osco - Vigera Rossura Sobrio Terigia		7.2	0.4	4	< 0.05	< 0.01	14.1	8.1	0.07	< 0.01	3.8	5.3	< 0.01	1.2	15.9
Frasco Frasco Gambarogno Caviano Contone Gerra Indemini Paese Indemini Pezze Magadino Magadino - Orgnana Piazzogna Quartino St. Abbondio St. Nazzaro - Vairano St. Nazzaro - Casenzano Vira Gambarogno - Congnola-Groppo Vira Gambarogno - Fosano Giornico Giornico Gordemo		6.8	0.1	1	< 0.05	< 0.01	3.7	0.1	0.05	< 0.01	0.2	2.2	< 0.01	0.6	2.4
		6.8	0.2	2	< 0.05	< 0.01	5.8	0.5	1.62	< 0.01	0.9	2.5	< 0.01	0.5	5.7
		5.7	0.4	4	< 0.05	< 0.01	10.1	19.6	0.06	< 0.01	2.6	5.4	< 0.01	1.8	9.1
		7.0	0.1	1	< 0.05	< 0.01	3.0	0.4	0.32	< 0.01	0.5	3.2	< 0.01	0.3	2.9
		6.7	0.1	1	< 0.05	< 0.01	2.6	0.3	0.44	< 0.01	0.3	1.9	< 0.01	< 0.2	2.0
		6.7	0.1	1	< 0.05	< 0.01	2.3	0.3	0.12	< 0.01	0.3	3.0	< 0.01	0.2	2.1
		6.7	0.2	2	< 0.05	< 0.01	5.4	0.4	0.09	< 0.01	1.9	2.9	< 0.01	1.1	3.3
		5.7	0.2	2	< 0.05	< 0.01	5.7	0.4	0.09	< 0.01	1.8	2.9	< 0.01	1.0	3.5
		6.9	0.2	2	< 0.05	< 0.01	4.6	2.5	0.47	< 0.01	0.9	3.5	< 0.01	0.9	3.1
		5.8	0.2	2	< 0.05	< 0.01	5.7	0.4	0.09	< 0.01	1.9	2.8	< 0.01	1.1	3.6
		7.0	0.1	1	< 0.05	< 0.01	2.9	0.3	0.31	< 0.01	0.6	3.2	< 0.01	0.3	2.0
		6.4	0.1	1	< 0.05	< 0.01	2.4	0.3	0.26	< 0.01	0.4	4.4	< 0.02	1.8	9.1
		6.6	0.1	1	< 0.05	< 0.01	2.6	0.3	0.25	< 0.01	0.3	4.4	< 0.01	0.2	1.8
		5.8	0.3	3	< 0.05	< 0.01	6.7	0.5	0.1	< 0.01	2.2	2.3	< 0.01	1.4	5
		5.7	0.3	3	< 0.05	< 0.01	7.6	9.1	0.36	< 0.01	1.6	3.9	< 0.01	1.2	6.5
		6.4	0.3	3	< 0.05	< 0.01	7.5	9.2	0.34	< 0.01	4.0	6.6	< 0.01	1.1	6.6
		5.6	0.2	2	< 0.05	< 0.01	5.3	0.3	0.05	< 0.01	0.5	2.2	< 0.01	1.0	1.1
		6.7	0.4	4	< 0.05	< 0.01	12.3	0.6	0.09	< 0.01	2.5	3.8	< 0.01	1.6	4.2







Comune	Quartiere - Zona	pH	Durezza tot mmoll/	Durezza tot °fr	Ammonio mg/l	Bromuro mg/l	Calcio mg/l	Cloruro mg/l	Fluoruro mg/l	Fosfato mg/l	Magnesio mg/l	Nitrato mg/l	Nitrito mg/l	Potassio mg/l	Sodio mg/l	Solfato mg/l
Sonogno Sonogno	-	6.8	0.1	1	< 0.05	< 0.01	3.6	0.1	0.06	< 0.01	0.2	2.2	< 0.01	0.7	0.8	2.4
Sorenigo Sorenigo	-	1.7	17	< 0.05	0.01	34.2	10.1	0.05	< 0.01	13.0	9.1	< 0.01	2.7	9.4	30.9	
Stabio Stabio	-	6.5	3.1	31	< 0.05	< 0.01	90.5	8.9	0.16	< 0.01	21.1	15.1	< 0.01	1.2	8.4	39.2
Taverne-Torriceila Torriceila	-	5.8	0.3	3	< 0.05	< 0.01	8.2	0.5	< 0.05	< 0.01	1.5	4.0	< 0.01	1.1	2.8	5.7
Tenero Tenero	-	5.9	0.8	8	< 0.05	< 0.01	26.3	0.8	0.13	< 0.01	2.5	3.1	< 0.01	2.2	3.5	19.6
Tenero - Contra	-	5.7	0.2	2	< 0.05	< 0.01	6.0	0.6	0.11	< 0.01	1.7	3.7	< 0.01	2.2	2.7	9.6
Terre di Pedemonte Caviglianino	-	7.6	0.2	2	< 0.05	< 0.01	6.1	0.4	< 0.05	< 0.01	1.3	1.9	< 0.01	0.9	2.0	3.6
Tegna	-	7.3	0.2	2	< 0.05	< 0.01	5.7	0.4	0.05	< 0.01	1.3	2.1	< 0.01	0.8	1.9	4.1
Verscio	-	7.2	0.2	2	< 0.05	< 0.01	5.8	0.5	0.08	< 0.01	0.9	3.9	< 0.01	0.5	1.8	3.6
Vacallo Zona Alta	-	6.1	1.6	16	< 0.05	0.02	57.4	1.6	0.05	< 0.01	3.1	16.4	< 0.01	0.2	0.9	3.8
Zona Bassa	-	6.6	3.1	31	< 0.05	0.02	96.3	14.8	< 0.05	< 0.01	15.8	20.4	< 0.01	1.0	6.4	19.9
Vernate Zona Alta	-	7.0	0.3	3	< 0.05	< 0.01	11.1	0.3	0.05	< 0.01	1.5	3.4	< 0.01	1.1	2.3	9.6
Zona Bassa	-	6.8	0.7	7	< 0.05	< 0.01	19.6	1	0.06	< 0.01	4.1	3.1	< 0.01	1.8	4	12.9
Vezia Vezia	-	5.3	0.7	7	< 0.05	< 0.01	18.7	5.7	0.05	< 0.01	6.1	7.6	< 0.01	1.6	5.0	17.5
Vico Morcote Vico Morcote	-	7.9	0.8	8	< 0.05	< 0.01	20.6	1.2	0.11	< 0.01	6.9	1.7	< 0.01	0.5	5.3	6.4
Zona Lago	-	7.9	1.3	13	< 0.05	< 0.01	38.3	8.7	0.11	< 0.01	8.7	4.9	< 0.01	1.6	6.7	12.2
Vogorno S. Bartolomeo Vogorno	-	7.4	0.2	2	< 0.05	< 0.01	6.1	0.5	0.19	< 0.01	0.7	3.9	< 0.01	0.9	3.0	4.0
		7.1	0.1	1	< 0.05	< 0.01	3.4	0.2	< 0.05	< 0.01	0.6	2.9	< 0.01	1.0	1.7	2.1