



**Environmental  
Protection  
Agency**

# **Calculating Chlorine for Your CCR Table**



# Reporting Chlorine in the Table of Detected Contaminants



Contaminants (Units)	MCLG or MRDLG	MCL or MRDL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source(s) of Contaminant
Disinfectant and Disinfectant By-Products							
Total Chlorine (ppm)	4	4	1.14	0.8 - 1.5	NO	2024	Water additive used to control microbes.
Total Trihalomethane (TTHM) (ppb)	NA	80	68.1	37.9 - 68.1	NO	2024	By-product of drinking water chlorination.

For Chlorine, the correct term for the allowable limit is MRDL = Maximum Residual Disinfectant Level

Contaminants (Units)	MCLG	MCL	Level Found	Range of Detections	Violation	Year Sampled	Typical Source(s) of Contaminant
Disinfectant and Disinfectant By-Products							
Total Chlorine (ppm)	MRDGL = 4	MRDL = 4	1.14	0.8 - 1.5	NO	2024	Water additive used to control microbes.
Total Trihalomethane (TTHM) (ppb)	NA	80	68.1	37.9 - 68.1	NO	2024	By-product of drinking water chlorination.

And the goal is called the MRDLG = Maximum Residual Disinfectant Level Goal



# Reporting Chlorine Levels

Use Data from Monthly Operating Reports (MORs) to find your chlorine numbers

Level Found	Range of Detections		
Report the highest quarterly running annual average (RAA) as the level found.	From the 12 monthly average chlorine values in the CCR calendar year, report the lowest monthly value, and the highest monthly value as the range.		
1 <sup>st</sup> Quarter RAA = 1.01 ppm	January	February	March
2 <sup>nd</sup> Quarter RAA = 1.14 ppm	April	May	June
3 <sup>rd</sup> Quarter RAA = 0.98 ppm	July	August	September
4 <sup>th</sup> Quarter RAA = 1.10 ppm	October	November	December
<i>2024 CCR Example: Use data from April 2023 to December 2024 to calculate RAA's each quarter</i>	<i>2024 CCR Example: Use data from January 2024 to December 2024</i>		





# The Chlorine Calculator: Start on the Ohio EPA DDAGW Page



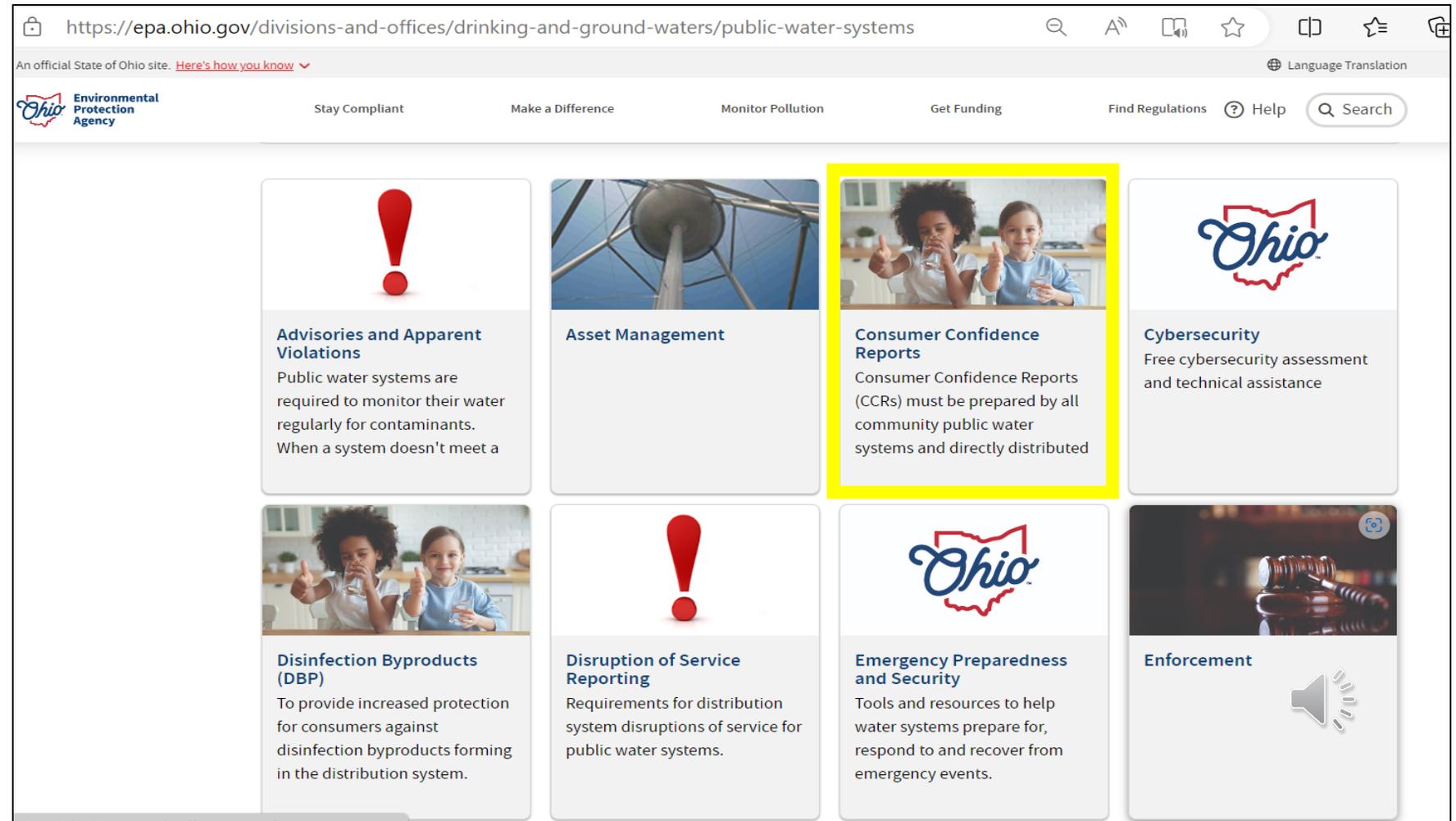
[epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters](https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters)

The screenshot shows the Ohio EPA website page for Drinking & Ground Waters. The browser address bar displays the URL: <https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters>. The page header includes the Ohio EPA logo and navigation links: Stay Compliant, Make a Difference, Monitor Pollution, Get Funding, Find Regulations, and Help. A search bar is also present. The main content area features the title "Drinking & Ground Waters" and a sub-header "Drinking & Ground Waters" with a description: "Ensures compliance with the federal Safe Drinking Water Act and evaluates potential threats to source waters that supply Ohio's more than 4,800 public drinking water systems." A sidebar on the left lists various sections: Welcome, Announcements, About DDAGW, Programs, Certified Operators, Guides & Manuals, Engineering and Plan Approval, Public Water Systems, and Source Water Protection and Underground Injection Control (UIC). The main content area includes a photograph of a woman and a child at a kitchen sink, and a blue box titled "Our Mission" with the text: "Protect human health and the environment by characterizing and protecting ground water quality and ensuring that Ohio's public water systems provide adequate supplies of safe drinking water." A "Learn More" button is located below the mission statement. A speaker icon is visible in the bottom right corner of the page.

# Scroll Down to the CCR Page



[epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confidence-reports](https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confidence-reports)



The screenshot shows the website <https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems>. The page features a navigation bar with links: Stay Compliant, Make a Difference, Monitor Pollution, Get Funding, Find Regulations, and Help. A search bar is also present. The main content area displays eight cards. The card for "Consumer Confidence Reports" is highlighted with a yellow border. The text on this card reads: "Consumer Confidence Reports (CCRs) must be prepared by all community public water systems and directly distributed". Other cards include "Advisories and Apparent Violations", "Asset Management", "Cybersecurity", "Disinfection Byproducts (DBP)", "Disruption of Service Reporting", "Emergency Preparedness and Security", and "Enforcement".

# Choose Tools and Calculators



https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confi...

An official State of Ohio site. [Here's how you know](#)

Environmental Protection Agency

Stay Compliant    Make a Difference    Monitor Pollution    Get Funding    Find Regulations    Help    Search

## Drinking & Ground Waters

Consumer Confidence Reports    **CCR Contact Information**

Welcome [Expand All Sections](#)

Announcements

About DDAGW

Programs

Certified Operators

Guides & Manuals

Engineering and Plan Approval

**Public Water Systems**

Consumer Confidence Reports (CCRs) must be prepared by all community public water systems and directly distributed to customers by July 1 annually. Public water systems that sell water to community public water systems must provide information that is necessary to complete their CCRs to the communities by April 1 annually. Please consult [Ohio Administrative Code \(OAC\) Chapter 3745-96](#) for the rules associated with CCRs.

- CCR Template, Instructions and Forms
- Tools and Calculators for Making a CCR Table**
- CCR Resources
- CCR Electronic Delivery Options
- Table of Detected Contaminants

**Launch** View Consumer Confidence Report Information

Share this

# Download the Calculating Chlorine Spreadsheet



Environmental  
Protection  
Agency



<https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/ccr/Chlorine-Calculator.xlsx>

The screenshot shows the EPA Ohio website page for Consumer Confidence Reports (CCRs). The page includes a navigation menu with links for 'Stay Compliant', 'Make a Difference', 'Monitor Pollution', and 'Get Funding'. The main content area is titled 'Drinking & Ground Waters' and features a sub-menu with 'Consumer Confidence Reports' and 'CCR Contact Information'. A text block explains that CCRs must be prepared by all community public water systems and distributed to customers by July 1 annually. Below this, there are two expandable sections: 'CCR Template, Instructions and Forms' and 'Tools and Calculators for Making a CCR Table'. The 'Tools and Calculators' section is expanded, showing a list of resources: 'Blank Table of Detected Contaminants (Excel)', 'Calculating Lead and Copper 90th Percentile (Excel)', 'Calculating Disinfection Byproducts For Quarterly Monitoring' (with sub-links for '2 Sites (Excel)' and '4 Sites (Excel)'), and 'Calculating Chlorine (Excel)'. A red arrow points to the 'Calculating Chlorine (Excel)' link. A speaker icon is visible on the right side of the page.

# Calculator Template

## Chlorine Calculations for CCR

	Average Monthly Value	Quarterly Average	Running Annual Average
December 2024		#DIV/0!	#DIV/0!
November 2024			
October 2024			
September 2024		4Q2024	4Q2024
August 2024		#DIV/0!	#DIV/0!
July 2024			
June 2024			
May 2024		3Q2024	3Q2024
April 2024		#DIV/0!	#DIV/0!
March 2024			
February 2024			
January 2024		1Q2024	1Q2024
December 2023		#DIV/0!	#DIV/0!
November 2023			
October 2023			
September 2023		4Q2023	
August 2023		#DIV/0!	#DIV/0!
July 2023			
June 2023			
May 2023		3Q2023	
April 2023		#DIV/0!	#DIV/0!
		2Q2023	

Level Found (ppm)	Range (ppm)
#DIV/0!	0 to 0

Instructions:  
 Insert average monthly values of Chlorine from MORs into Column B. The level found will be highlighted in Blue the Range will be highlighted in Yellow.  
 For more information please see page 18 Example 8 in the Template Instruction Guide.



<https://dam.assets.ohio.gov/faw/upload/epa.ohio.gov/Portals/28/documents/ccr/Chlorine-Calculator.xlsx>

# Enter Monthly AVG Values from MORs

## The Range and Level Found For Chlorine will automatically be calculated



Environmental  
Protection  
Agency

### Chlorine Calculations for CCR

	Average Monthly Value	Quarterly Average	Running Annual Average
December 2024	1.35	1.383333	1.416667
November 2024	1.4		
October 2024	1.4		
September 2024	1.3	4Q2024	4Q2024
August 2024	1.4	1.366667	1.425
July 2024	1.4	3Q2024	3Q2024
June 2024	1.45	1.45	1.408333
May 2024	1.4		
April 2024	1.5	2Q2024	2Q2024
March 2024	1.5	1.466667	1.414167
February 2024	1.4		
January 2024	1.5		
December 2023	1.6	1.416667	
November 2023	1.3		
October 2023	1.35	4Q2023	
September 2023	1.2	1.3	
August 2023	1.4		
July 2023	1.3		
June 2023	1.03	1.473333	
May 2023	1.5		
April 2023	1.89		

Level Found (ppm)	Range (ppm)
1.425	1.3 to 1.5



<https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/ccr/Chlorine-Calculator.xlsx>

# Accessing MOR Data

- The eDWR system allows PWSs and laboratories to create and submit MORs
- Authorized users can view, print, and download submitted SSR and MOR reports by laboratory or PWS and submission date.
- Information on drinking water MORs, including viewing and printing the reports, is located on the DDAGW website in "Guides and Manuals" under "eDWR Data Reporting"



[epa.ohio.gov/static/Portals/28/documents/reporting/eDWR FAQs and How To.pdf](https://epa.ohio.gov/static/Portals/28/documents/reporting/eDWR%20FAQs%20and%20How%20To.pdf)



[epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/guides-manuals/data-reporting-faqs](https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/guides-manuals/data-reporting-faqs)

# Resources



[epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confidence-reports](https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confidence-reports)



<https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/ccr/Chlorine-Calculator.xlsx>



[epa.ohio.gov/static/Portals/28/documents/reporting/eDWR FAQs and How To.pdf](https://epa.ohio.gov/static/Portals/28/documents/reporting/eDWR%20FAQs%20and%20How%20To.pdf)



[epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/guides-manuals/data-reporting-faqs](https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/guides-manuals/data-reporting-faqs)



# Thank You

Compliance Assurance Section  
614.644.2752  
CCR@epa.ohio.gov

Follow Ohio EPA on



**Environmental  
Protection  
Agency**

