



**Environmental
Protection
Agency**

DISINFECTION BYPRODUCT (DBP) CCR CALCULATOR TUTORIAL



ANNUAL SYSTEMS

- Level found: report **highest level found** for both HAA5 and TTHM
- Range of levels found: **range of levels found** for both HAA5 and TTHM
- Same process for both contaminants
- Only include if detections were reported by your certified laboratory during the calendar year of report



ANNUAL HAA5 EXAMPLE

Quarter	2023 HAA5 Results (ug/L)			
	Jan-Mar	Apr-June	Jul - Sept	Oct-Dec
Site 1 - Sample Value (ug/L)	None	None	42.1	None
Site 1 - LRAA	None	None	42.1	None
Site 2 - Sample Value (ug/L)	None	None	33.9	None
Site 2 - LRAA	None	None	33.9	None
CCR Report Values	Highest Compliance Value = 42.1 ug/L Range of Values = 33.9 - 42.1 ug/L			

- Level Found: 42.1 ppb
- Range of Levels Found: 33.9-42.1 ppb

NOTE: If one sample/year – range can be “N/A”



QUARTERLY SYSTEMS:

- Level found: report the ***highest locational running annual average (LRAA)*** for both HAA5 and TTHM found in the CCR reporting calendar year
- Range of levels found: report the ***range of levels found on individual sample results*** for both HAA5 and TTHM reported during the CCR reporting calendar year



QUARTERLY CALCULATORS ONLINE:

- Templates for 2 and 4 DBP sampling locations
- If you had a non-detect during a specific time period, enter “0” ppb for that sample result
- If you missed monitoring for a quarterly sample, leave that individual sample as blank in the calculator



<https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confidence-reports>





Consumer Confidence Reports

Drinking & Ground Waters

- Welcome
- Announcements
- About DDAGW
- Programs
- Certified Operators
- Guides & Manuals
- Engineering and Plan Approval
- Public Water Systems**
- Reports & Data
- Regulations

Consumer Confidence Reports CCR Contact Information

Launch
View Consumer Confidence Report Information

Expand All Sections

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.

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CCR Template, Instructions and Forms

Tools and Calculators for Making a CCR Table

- [Blank Table of Detected Contaminants](#) (Excel)
- [Calculating Lead and Copper 90th Percentile](#) (Excel)
- Calculating Disinfection Byproducts For Quarterly Monitoring
 - [2 Sites](#) (Excel)
 - [4 Sites](#) (Excel)
- [Calculating Chlorine](#) (Excel)

CCR Resources



TWO SAMPLING LOCATIONS

Quarterly DBP Monitoring with 2 sample sites

Instructions: Insert DBP result values for each site into the corresponding "Results" column. Please note that any results that are below detection limit (e.g., <6), should be entered as 0.

The HAA5 Level found and Range will be in Yellow. The TTHM Level Found and Range will be in Blue

For more information please see page 14, Section 8, Example 5 in the Instruction Guide, which can be found online at: <https://epa.ohio.gov/wps/portal/gov/epa/divisions-and-offices/drinking-ground-and-waters/public-water-systems/consumer-confidence-reports>

DS201				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024		#DIV/0!		#DIV/0!
3Q2024		#DIV/0!		#DIV/0!
2Q2024		#DIV/0!		#DIV/0!
1Q2024		#DIV/0!		#DIV/0!
4Q2023				
3Q2023				
2Q2023				

DS202				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024		#DIV/0!		#DIV/0!
3Q2024		#DIV/0!		#DIV/0!
2Q2024		#DIV/0!		#DIV/0!
1Q2024		#DIV/0!		#DIV/0!
4Q2023				
3Q2023				
2Q2023				

HAA5 Highest LRAA	#DIV/0!
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TTHM Highest LRAA	#DIV/0!
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HAA5 Range	0 to 0
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TTHM Range	0.00 to 0
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<https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/cr/2-Sites.xlsx>



FOUR SAMPLING LOCATIONS

Quarterly DBP Monitoring with 4 sample sites

Instructions: Insert DBP result values for each site into the corresponding "Results" column. Please note that any results that are below detection limit (e.g., <6 ppb, should be entered as 0. The HAA5 Level found and Range will be in Orange. The TTHM Level Found and Range will be in Blue. For more information please see page 14, Example 5 in the Template Instruction Guide.

The HAA5 Level found and Range will be in Orange. The TTHM Level Found and Range will be in Blue.

For more information please see page 14, Section 8, Example 5 in the Instruction Guide which can be found online at: <https://epa.ohio.gov/wps/portal/gov/epa/divisions-and-offices/drinking-ground-and-waters/public-water-systems/consumer-confidence-reports>.

DS201				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024		#DIV/0!		#DIV/0!
3Q2024		#DIV/0!		#DIV/0!
2Q2024		#DIV/0!		#DIV/0!
1Q2024		#DIV/0!		#DIV/0!
4Q2023				
3Q2023				
2Q2023				

DS202				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024		#DIV/0!		#DIV/0!
3Q2024		#DIV/0!		#DIV/0!
2Q2024		#DIV/0!		#DIV/0!
1Q2024		#DIV/0!		#DIV/0!
4Q2023				
3Q2023				
2Q2023				

DS203				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024		#DIV/0!		#DIV/0!
3Q2024		#DIV/0!		#DIV/0!
2Q2024		#DIV/0!		#DIV/0!
1Q2024		#DIV/0!		#DIV/0!
4Q2023				
3Q2023				
2Q2023				

DS204				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024		#DIV/0!		#DIV/0!
3Q2024		#DIV/0!		#DIV/0!
2Q2024		#DIV/0!		#DIV/0!
1Q2024		#DIV/0!		#DIV/0!
4Q2023				
3Q2023				
2Q2023				

HAA5 Level Found	#DIV/0!	TTHM Level Found	#DIV/0!
HAA5 Range	0 to 0	TTHM Range	0 to 0



<https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/ccr/4-Sites.xlsx>



HOW TO USE CALCULATOR

- 1) Download and open calculator
- 2) Save document
- 3) Insert individual sample results in columns labeled "Result"
- 4) The highest LRAA and ranges will be auto-populated
- 5) Highest LRAA will be used for Level Found
- 6) Range will be used for Ranges of Levels Found
- 7) Put values in table in CCR

Quarterly DBP Monitoring with 2 sample sites

Instructions: Insert DBP result values for each site into the corresponding "Results" column. Please note that any results that are below detection limit (e.g., <6), should be entered as 0.

The HAA5 Level found and Range will be in Yellow. The TTHM Level Found and Range will be in Blue.

For more information please see page 14, Section 8, Example 5 in the Instruction Guide, which can be found online at:

<https://epa.ohio.gov/wps/portal/gov/epa/divisions-and-offices/drinking-ground-and-water/public-water-systems/consumer-confidence-reports>

DS201				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024	30	27.825	56.9	56.55
3Q2024	45.6	31.75	67.8	59.2
2Q2024	23.4	34.525	12.3	50.75
1Q2024	12.3	30.975	89.2	56.3
4Q2023	45.7		67.5	
3Q2023	56.7		34	
2Q2023	9.2		34.5	

DS202				
	HAA5		TTHM	
	Result	LRAA	Result	LRAA
4Q2024	56.7	31.8	78.9	61.475
3Q2024	34.2	20	45.6	44.825
2Q2024	12.4	27.025	76.2	55.75
1Q2024	23.9	27.15	45.2	45.325
4Q2023	9.5		12.3	
3Q2023	62.3		89.3	
2Q2023	12.9		34.5	

HAA5 Highest LRAA	34.53
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TTHM Highest LRAA	61.48
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HAA5 Range	12.3 to 56.7
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TTHM Range	12.30 to 89.2
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Resources

- Ohio EPA CCR General Website - <https://epa.ohio.gov/divisions-and-offices/drinking-and-ground-waters/public-water-systems/consumer-confidence-reports>
- DBP Calculator
 - Two Sites - <https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/ccr/2-Sites.xlsx>
 - Four Sites - <https://dam.assets.ohio.gov/raw/upload/epa.ohio.gov/Portals/28/documents/ccr/4-Sites.xlsx>
- Table of Detected Contaminants (Excel) - <https://epa.ohio.gov/static/Portals/28/documents/ccr/Generic-template-style-table.xlsx>
- CCR Instruction and Template Guide - https://dam.assets.ohio.gov/image/upload/epa.ohio.gov/Portals/28/documents/ccr/CCR_Instructions_Template.pdf

Have questions?

Contact the Compliance Assurance Section at 614.644.2752 or CCR@epa.ohio.gov

