

Small Systems Bulletin

Minnesota Rural Water Association



July 2024 | Summer News



MRWA
Corporate
Partners

About Us:

**Visit Our
Website**



Welcome to this edition of the Small Systems Bulletin. The purpose of this bulletin is to keep you informed on issues concerning your water system. We issue this bulletin quarterly. Topics covered in the bulletin include operation and maintenance, treatment, backflow/cross-connections, regulations, operator training, management, and many others. Dates and locations of future workshops are included.

If you have suggestions about topics that you would find helpful, give us a call at 800-367-6792 or send us an e-mail at kyle.kedrowski@mrwa.com or jennifer.koenig@mrwa.com

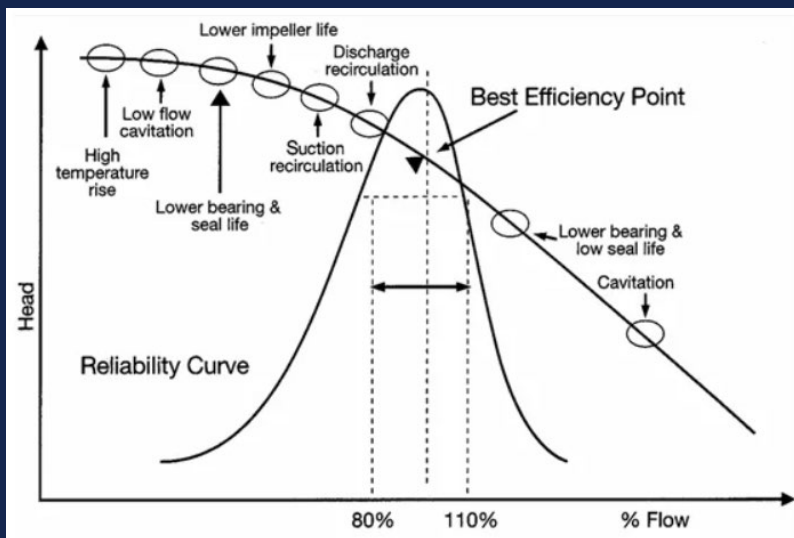
Watch for this quarterly newsletter and we'll see you at a future small system training workshop!

Feature Article: Energy Savings With Pumps and VFDs

By: Paul Hoeschen, MRWA Energy Efficiency Advisor

VFDs can save significant energy if, and only if, the pump is operating inside the efficient part of the pump curve. The spreadsheet shows the actual operation inside and outside of the pump curve.

High Service Pump #1							
	% Speed	Hertz	GPM	KW	GPM per KW		
Full Speed	100	60.0	255	7.00	36.4	39.3	Efficient Speed.
	86	51.6	175	4.55	38.5	31.8	Initial VFD speed, outside of pump curve.
Efficient Speed	85	51.0	173	4.40	39.3	7.5	GPM per KW increase.
	84	50.4	164	4.25	38.6	23.6%	Increased efficiency for increasing the speed.
	83	49.8	156	4.00	39.0		
	80	48.0	131	3.50	37.4	36.4	Full Speed.
Speed too slow	76	45.6	89	2.80	31.8	31.8	Too slow, outside of the pump curve.
						4.6	GPM per KW decrease.
						12.64%	Decreased efficiency for installing VFDs and operating too slow.



Training & Technical Assistance Update:

The dates and locations for our upcoming in-person training sessions are listed below. We also have these dates posted on our *Training Calendar* page www.mrwa.com/training/trainingcalendar/.

At the top of that page, please click on the box "Go To Small Systems Training" for our Class E & D training dates and locations. For our in-person training sessions, we will mail notices to operations specialists in those areas approximately one month prior to the class. We are working on our training

dates for July – December 2024. As soon as these dates are scheduled, we will post them on our website.

In-Person Training:

Class E Training Workshops (8am – Noon)

August 13, 2024

**Syngenta
317 – 330th Street
Stanton, MN**

October 1, 2024

**Cloquet Forestry Center
175 University Road
Cloquet, MN**

November 20, 2024

**Scandia City Hall
14727 – 209th Street North
Scandia, MN**

Class D Training Workshops (8am – 5pm)

September 10, 2024

**Centennial Square Mobile Home Park
3200 – 89th Avenue NE
Blaine, MN**

[Click Here to Register!](#)

Online Training:

We will continue to offer online remote training sessions using Zoom. If you have not received these email invites for the Zoom online training sessions, please email mrwa@mrwa.com and provide your name, public water system name, and preferred email address to us so that we can add you to our email list. If you have received emails from us in the past but not these Zoom notices, please check your Junk/Spam folder. If you use a Gmail account, you may need to check the “Promotions” folder for the email invites.



Once the online training sessions are scheduled we will post these online training session links on our website www.mrwa.com on our *Training Calendar* page. At the top of that page, please click on the box "Go To Small Systems Training" for our online training links. You will be notified via email of the date and time of each online remote training session. An email address will be needed to register for these online remote training sessions.

Each operations specialist must register and sign-in separately on their own device to receive credit for attending the online remote training session.

Additional Training Opportunities

Lead and Copper Rule Revisions/Asset Management Training

(6 direct water CEUs available)

More information on these training sessions can be found on our website www.mrwa.com, on our Training Calendar page. At the top of that page, please click on the box "Go To WATER Training" for training dates and locations.

July 11, 2024

**Waite Park City Hall – Lower Level
19 – 13th Avenue North
Waite Park, MN**

August 21, 2024

**Minnesota Rural Water Association
217 12th Avenue SE
Elbow Lake, MN**

September 12, 2024

**North Mankato Fire Station 2
1825 Howard Drive West
North Mankato, MN**

October 2, 2024

**Two Harbors Community Center
417 South Avenue
Two Harbors, MN**

November 7, 2024

**Zimmerman/Livonia Fire Hall
26140 – 136th Street NW
Zimmerman, MN**

December 4, 2024
Cologne Community Center
1211 Village Parkway
Cologne, MN

[Register Here](#)

Technical Assistance

We also wanted to let you know that if you have any questions about training or are in need of onsite technical assistance, please feel free to contact us to set up an appointment.

Thank you so much for all that you do to provide safe drinking water to your consumers!

Jennifer Koenig

jennifer.koenig@mrwa.com

320-815-4990

Kyle Kedrowski

kyle.kedrowski@mrwa.com

320-760-1475