

# PWT® - pH WATER TREATMENT



## PRODUCT DATA SHEET

- Effective in antibiotic-free production programs
- Safest, most widely used and proven effective inorganic acid
- Lowers water pH without a bitter taste
- Optimizes water consumption
- Dry product composition and low addition rate saves money
- Maximizes bactericidal efficacy of chlorine through pH manipulation
- Helps to dissolve lime and scale, and restore and maintain full function of waterlines for optimum flow
- FDA approved GRAS, manufactured under GMPs in a facility certified to the most current ISO 9001 standard

As the strongest animal feed grade mineral acid available, PWT® requires a low addition rate to acidify drinking water to biologically effective low pH levels. The low addition rate allows water palatability to be maintained to promote optimum water consumption in birds and livestock. PWT can also be used to manipulate pH in order to maximize chlorine effectiveness for waterline cleaning and sanitation.

### Mixing Instructions

1. Test pH and alkalinity of incoming water.
2. Identify target pH (for general acidification or chlorine optimization).
3. Determine PWT dosage from Recommended Usage Rate Chart below or use calculator on mobile app.
4. Add PWT dosage to four gallons (15 liters) of water to create stock solution. Dissolve thoroughly. Mixing in larger quantities will help avoid interruption in continuous administration.
5. Administer stock solution at a rate of 1:128.

### PWT Recommended Usage Rate Chart

Amount of PWT	General Acidification Target pH 4.0	Chlorine Enhancement Target pH 5.5-6.5
½ lb	Alkalinity > 60-115 and pH < 6.4	
1 lb	Alkalinity < 115 and pH 6.5-7.5	Alkalinity 77-191
2 lbs	Alkalinity 115-192 and pH > 7.5	Alkalinity 191-399
3 lbs	Alkalinity 193-350 and pH > 8.0	Alkalinity > 400
4 lbs	Alkalinity > 350 and pH > 8.5	

**Note:** More or less PWT may be needed to achieve desired target pH.

\*Sodium Bisulfate has been reviewed by EPA's Safer Choice Program and qualifies for use in Safer Choice-labeled products.

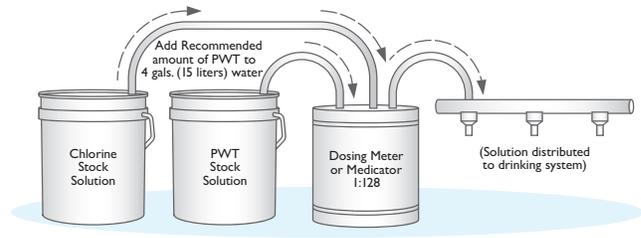


For optimal performance of PWT and to gain the maximum performance benefits for birds, the following application procedures are recommended.

## PWT APPLICATION PROCEDURES

For optimal performance of PWT and to gain the maximum health and performance benefits for birds, the following application procedures are recommended.

When chlorinating drinking water, administer PWT continuously at a rate necessary to maintain water pH around 6.0 at bird level. NEVER ADD CHLORINE DIRECTLY INTO THE PWT STOCK SOLUTION.



## GENERAL ACIDIFICATION USE WITH PWT

Refer to the front of the sheet to determine the stock solution strength required to achieve a pH of 4.0. Mix the required amount of PWT into 4 gallons of water to make a stock solution. Administer the stock solution at a rate of 1:128.

	STEP 1	STEP 2	STEP 3	STEP 4
Broilers	Mix PWT stock solution as directed. Prime drinking system with PWT prior to placement.	Administer continuously 7-10 days after placement.	Administer PWT 1-3 times per week and/or 48-72 hours before and after each feed change. Administer continuously the last 24-48 hours prior to catch.	Mix PWT stock solution as directed. Prime drinking system with PWT prior to placement.
Pullets		Administer continuously 7-10 days after placement.	Administer PWT continuously every day off feed until movement (i.e. if birds are fed Mon/Wed/Fri, deliver PWT on Sun/Tues/Thurs/Sat).	
Broiler Breeder Hens		Administer continuously 7-10 days after transfer to breeder house.	Administer PWT continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.	
Commercial Turkeys		Administer continuously 14-21 days after placement.	Administer PWT 1-3 times per week and/or 48-72 hours before and after each feed change.	Prime drinking system with PWT prior to transfer to growout barn. Administer continuously the first 7 days after transfer. Administer PWT continuously the last 24-48 hours prior to catch.
Turkey Breeders		Administer continuously 14-21 days after placement.	Administer PWT 1-3 times per week and/or 48-72 hours before and after each feed change.	
Commercial Egg Layers		Administer continuously 7-10 days after transfer to layer house.	Administer PWT continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc. Administer continuously from 48 hours before beginning of molt until 7 days after birds resume full feeding.	
Commercial Egg Layer - Pullets		Administer continuously 7-10 days after placement.	Administer PWT continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.	

### Antibiotic-Free Production

For antibiotic-free production, water acidification using an inorganic mineral acid such as PWT is recommended to reduce crop pH to 4.0 from 0-21 days, or in the first week and then 3-4 days around the time of each feed change. Intermittent applications should be considered for 72-96 hours during stress periods and the last 48 hours prior to movement.

one gallon of water (1:128). Allow a minimum of 8 hours for cleaning and descaling, but do not exceed 24 hours with cleaning solution in water lines. Flush drinking system thoroughly with clean water.

**During the Flock:** Run 1-2 pounds of PWT through drinking system to clean water lines after administering other water additives such as sugar, vitamins, or powdered milk.

## WATER LINE CLEANING AND SANITATION WITH PWT

**In Between Flocks:** When cleaning between flocks, mix 2-4 pounds of PWT with 4 gallons of water to make a stock solution.

**Note:** Extremely "hard" water may require higher amounts of PWT to reach the desired pH level. Deliver one ounce of stock solution per



30354 Tracy Road, Walbridge, OH 43465  
888-858-4425 • JonesHamiltonAg.com