



# TRIANGULAR WAVE Fact Sheet

## Turkey Farm Uses Triangular Wave System To Control Scale and Biofilm Deposits and Boost Production

### **Miller Turkey Farm:**

8,000 Bird Facility  
6,000 Gallons of Water Per Day  
50 Grains of Water Hardness

### **Shank's Inc. (Chicken Farm-Egg Laying Facility)**

250,000 Bird Facility  
9,600 Gallons of Water Per Day  
21 Grains of Water Hardness

Extremely hard water was of great concern to the operators of both the Miller Turkey Farm and Shanks, Inc.

At the Miller Farm, scale would build up on the bell nipple waterers and coat them with a thick white crust. It would also clog the medicators used for disease prevention. The scale and biofilm provided a bacterial breeding ground. In response, a Triangular Wave Deposit Control Unit and an Ionization Unit were installed.

The installations have eliminated the scale and biofilm, as well as the need for the sodium and chlorine treatment of the water. Similar methods were used at the Shanks' Facility. Only one TWT-5C8-402 was installed to eliminate scale

and biofilm build up, because it also served to keep three ultraviolet light disinfection systems clean. The UV System is necessary, because their water source is contaminated with bacteria.

At both locations, the methods employed resulted in the following benefits:

- **Saves salt and other chemical additive costs**
- **Saves equipment maintenance costs**
- **Saves chemical handling costs**
- **Saves electricity costs**
- **Produces healthier products**
- **Reduces mortality rates**
- **Produces higher profit margin**
- **Improves food conversion rates**



Bell Nipple Watering System is Scale Free



Triangular Wave System Installed on Water Pipe Serving the Turkey Barns