FARM NAME

Doc.No. **2.01**
Title: **Sanitation of Crop Spray Water Including a Chlorination Rate Table***
Effective Date: _____
Reviewed by: _____ GAP Coordinator, Date: _____

This procedure is to be used when there is no source of potable water to fill sprayers or fertigation equipment.

1. Determine the source of water to be used for spraying.
2. Well or municipal water sources will use the **5ppm** recommendation from the Chlorination Table on this SOP. Pond, stream or reservoir will use the **10ppm** recommendation.
3. Wear required personal protective equipment as directed from the pesticide label that you are using.
4. Pre-fill one-fourth of the spray tank with clean water.
5. Mix into the tank the appropriate amount of chlorine bleach according to the Chlorination Table.
6. Continue to fill the tank until one-half full then proceed to mix in crop protectants according to requirements.
7. Finish filling spray tank to top and prepare to move to field.

CHLORINATION OF CROP SPRAY WATER

Gallons of Mix	5.25% Bleach Solution		6% Bleach Solution		10% Bleach Solution	
	5 ppm	10 ppm	5 ppm	10 ppm	5 ppm	10 ppm
1	0.5 cc	0.8 cc	0.3 cc	0.6 cc	0.2 cc	0.4 cc
2	0.8 cc	1.1 cc	0.6 cc	1.2 cc	0.4 cc	0.8 cc
3	1.1 cc	2.2 cc	1 cc	2 cc	0.6 cc	1.2 cc
4	1.5 cc	3 cc	1.2 cc	2.4 cc	0.8 cc	1.6 cc
5	1.8 cc	3.6 cc	1.6 cc	3.2 cc	1 cc	2 cc
10	3.6 cc	7.2 cc	3.2 cc	6.4 cc	2 cc	4 cc
15	5.4 cc	10.8 cc	4.8 cc	9.6 cc	3 cc	6 cc
25	9 cc	18 cc	8 cc	16 cc	5 cc	10 cc
50	0.6 fl oz	1.2 fl oz	0.5 fl oz	1.1 fl oz	0.33 fl oz	0.67 fl oz
100	1.2 fl oz	2.4 fl oz	1.1 fl oz	2.2 fl oz	0.67 fl oz	1.3 fl oz
250	3 fl oz	6.1 fl oz	2.7 fl oz	5.4 fl oz	1.6 fl oz	3.2 fl oz
500	6.1 fl oz	12.2 fl oz	5.4 fl oz	10.7 fl oz	3.2 fl oz	6.4 fl oz
1000	12.2 fl oz	24.4 fl oz	10.7 fl oz	21.4 fl oz	6.4 fl oz	12.8 fl oz

* Information provided by Dr. Allen Straw, Small Fruit and Vegetable Specialist, Virginia Tech, Blacksburg, VA