

LAB RESOURCE: Food Safety Modernization Act (FSMA) water testing expectations for farmers who grow produce that is commonly eaten raw

Production Water for Produce (excluding sprouts)

- Water in contact with the harvestable portion of produce during growth
- Testing:
 - Municipal water: copies of municipal testing
 - Ground water: 4 quantitative tests in the first year, and 1 test per year after to create a rolling 4-year data set of at least 4 samples.
 - Surface water: 20 quantitative tests in the first 2-4 years, and 5 tests per year after to create a rolling 4-year data set of at least 20 samples.
 - Approved quantitative methods must be tested within 6 hours of sampling: http://bit.ly/FSMAagwatermethods
- · Thresholds:
 - ≤ 126 CFU or MPN/100 mL geometric mean (GM)
 - ≤ 410 CFU or MPN/100 mL statistical threshold value (STV)
 - Calculator: http://agwater.arizona.edu/onlinecalc/

Postharvest Water for Produce (excluding sprouts)

- Water used during or after harvest
- Testing:
 - Municipal water: copies of municipal testing
 - Ground water: 4 quantitative or presence/absence tests in first year, and 1 test per year after.
 - No untreated surface water allowed for postharvest use.
 - Approved quantitative methods must be tested within 6 hours of sampling, and approved presence/absence methods must be tested within 30 hours of sampling: http://bit.ly/FSMAagwatermethods
- Threshold:
 - No detectable generic E. coli per 100 mL. If generic E. coli is detected, use a Corrective Measure and conduct 4 more quantitative or presence/absence tests in the first year of use after the Corrective Measure.

Corrective Measures:

- 1. Delay harvest after last use of Production Water on the harvestable portion of the crop.
- 2. Re-inspect the Production or Postharvest Water source and distribution system, fix any problems, document, and confirm that the fix was effective with another test.
- 3. Treat Production or Postharvest water with a sanitizer labeled for use on fruits and vegetables and/or food contact surfaces as applicable.

Geometric Mean (GM) CFU or MPN/100 mL	Statistical Threshold Value (STV) CFU or MPN/100 mL	Time to delay harvest if water touches harvestable part of produce
Up to 126	Up to 410	0 days (unrestricted)
Up to 398	Up to 1,297	1 day
Up to 1,260	Up to 4,100	2 days
Up to 3,984	Up to 12,965	3 days
Up to 12,600	Up to 41,000	4 days
Over 12,600	Over 41,000	Not allowed

Don't do these tests yourselves? Find a lab that does: http://bit.ly/Mlagwaterlabmap Want your lab on this map? Fill out this form: http://bit.ly/Mlagwaterlabsurvey