



# Poultry Water Concerns



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# MAXIMUM SLAUGHTER CAPACITY IN TN > 6 MILLION BIRDS/WK



- 1 Tyson Foods, OBC – Union City
- 2 Tyson Foods – Shelbyville
- 3 Pilgrim's – Chattanooga
- 4 Koch Foods – Chattanooga
- 5 Koch Foods – Morristown
- 6 and, Keystone Foods – Albany, KY

- H Hubbard, LLC – Pikeville, 1996-97
- A Aviagen – Crossville, Pedigree Div.; 1991-92
- E Aviagen – Elkmont, AL
- C Cobb-Vantress – Lafayette; 2010-11
- D Cobb-Vantress – Dry Creek Pedigree Div.; 2012
- 7 Pilgrim's – Mayfield, KY




## Bedford County - Shelbyville, TN

- 225 poultry houses, #2 in the state
- Underperforming wells
- BCUD water storage issues; at capacity
- New growers have to sign a letter of agreement to *have their service cut off first* in the event of a drought or shortage
- Metered water ~\$7.75/1000 gal

# Surface water – Avian Influenza biosecurity concerns





**Georgia** wants TN's water, ongoing feud in the Chattanooga region; Atlanta is looking further out

## **Alabama**

- UD in NW AL.: 2" meters @\$60 grand
- Another county, ~\$16 grand
- Cullman Co. - \$9.95/1000 gallons
  - Projected to increase to \$11
  - Reliance on metered water, underperforming wells



## 2 Rainwater Harvesting Projects in AL

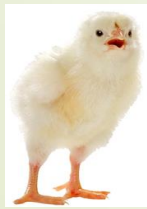
- 1) Auburn NPTC has a CIG project ongoing on a broiler farm near Snead
  - 2) Cullman project - funded by
    - EQIP cost-share for gutters/conveyance
    - NPTC, the grower and RWR
- 4-houses to harvest & feed ~1.75 mln gal. of RW and meet 85% of the annual bird & cool cell needs; 50" annual rainfall



Sq. ft. x 0.623 coefficient x inches of rainfall x  
90% efficiency x # houses =

500' x 50' x .623 x 45" x .90 x 4 = 2.5 mln gallons

- Storage becomes the limiting factor
- ROI & cost-share determine storage capacity
- Still have to deal with periods of drought
- Holding as surface water not recommended
  - biosecurity and performance concerns
- Added advantage of stormwater mgmt







## USDA/NRCS

Water needs to be a *resource concern*  
before current sources deplete

Biosecurity cannot be compromised;  
can't cut corners on storage & treatment

Who decides, and how?

What can we all do?

