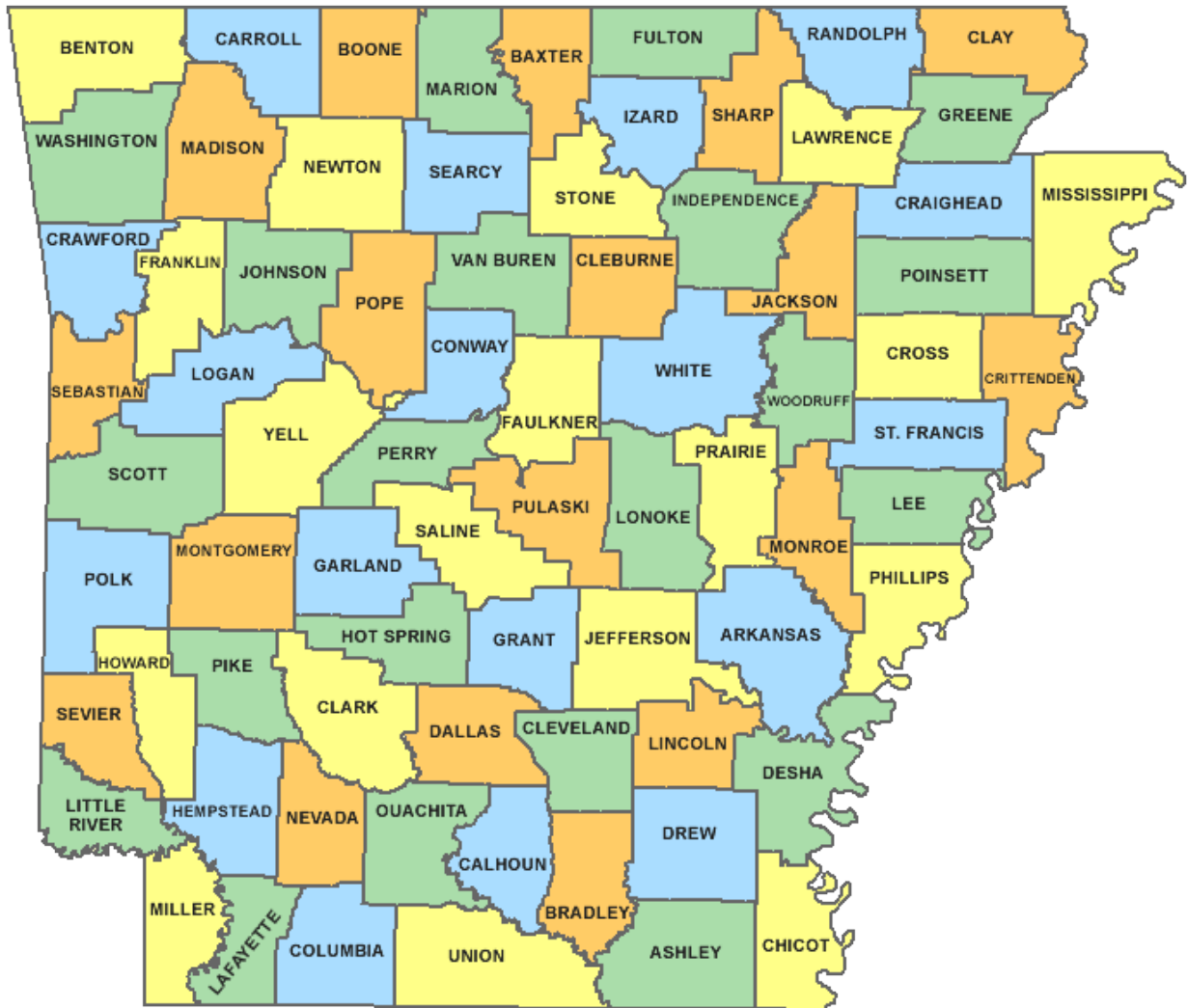


Multimin PUTS MICRO MINERALS ON THE MAP!

ARKANSAS – Micro Minerals (Cu, Mn, Zn, Se) in Cattle:

Hay analyses have indicated that forages in Arkansas are deficient in the trace minerals copper, zinc and selenium (Davis et al., 2002). Davis et al. (2002) also indicated that 24%, 10% and 1% of Arkansas hays contained antagonistic levels of sulfur, Iron and Molybdenum, respectively. These trace minerals can interfere with copper metabolism.



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Cattle with trace mineral deficiencies often show no clinical signs until they are severely deficient, but a chronic deficiency inhibits performance and decrease production.

Clinical signs of copper deficiency include:

- Immune suppression – disease breakouts and failure to respond to vaccination
- Rough, red dull hair coat
- Anemia

Clinical signs of selenium deficiency include:

- Muscle degeneration (white muscle disease)
- Reproductive failure
- Immune suppression

Clinical signs of manganese deficiency include:

- Bone abnormalities
- Reduced growth rate
- Reduced fertility

Clinical signs of zinc deficiency include:

- Compromised hoof integrity
- Bull reproductive failure
- Anorexia and weight loss esp. in calves

Where does Multimin fit in?

- Multimin provides zinc, manganese, copper and selenium in a readily available form as an injection.
- Multimin rapidly increases trace mineral status of animals.
- Multimin rapidly increases liver storage of trace minerals following injection.
- Multimin bypasses antagonists in feed, forage, distillers grain and drinking water that can reduce the absorption of these critical trace minerals.

Reference :

Gadberry M.S., Troxel T.R., Davis G.V. Blood trace mineral concentration of cows and heifers from farms enrolled in Arkansas beef improvement program.