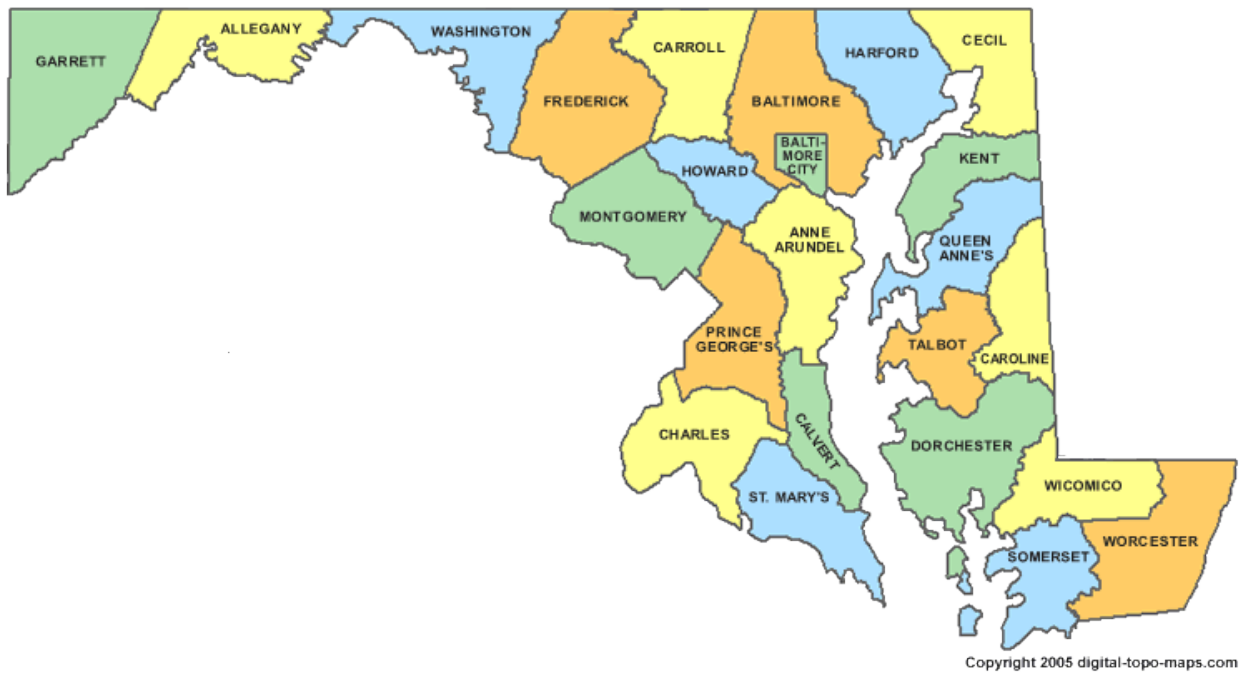


Multimin PUTS MICRO MINERALS ON THE MAP!

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

Moderate and extreme cobalt deficient areas exist primarily in the Central, Northeast and Southeast sections of the U.S. Soils or plants in the upper Midwest, along the West Coast, in Florida and along the East Coast in the Virginia-Maryland area are low in copper. Manganese deficiencies of plants and grazing animals occur in the upper Midwest and along both coasts. Plants and soils as well as animals in these areas may have a marginal manganese status. Zinc is deficient in scattered areas of the Pacific Coast states plus Arizona and Utah, but the largest deficient areas are in the Southeast and Texas.



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 :

Seven vital trace minerals for cattle – Cattle Nutrition.