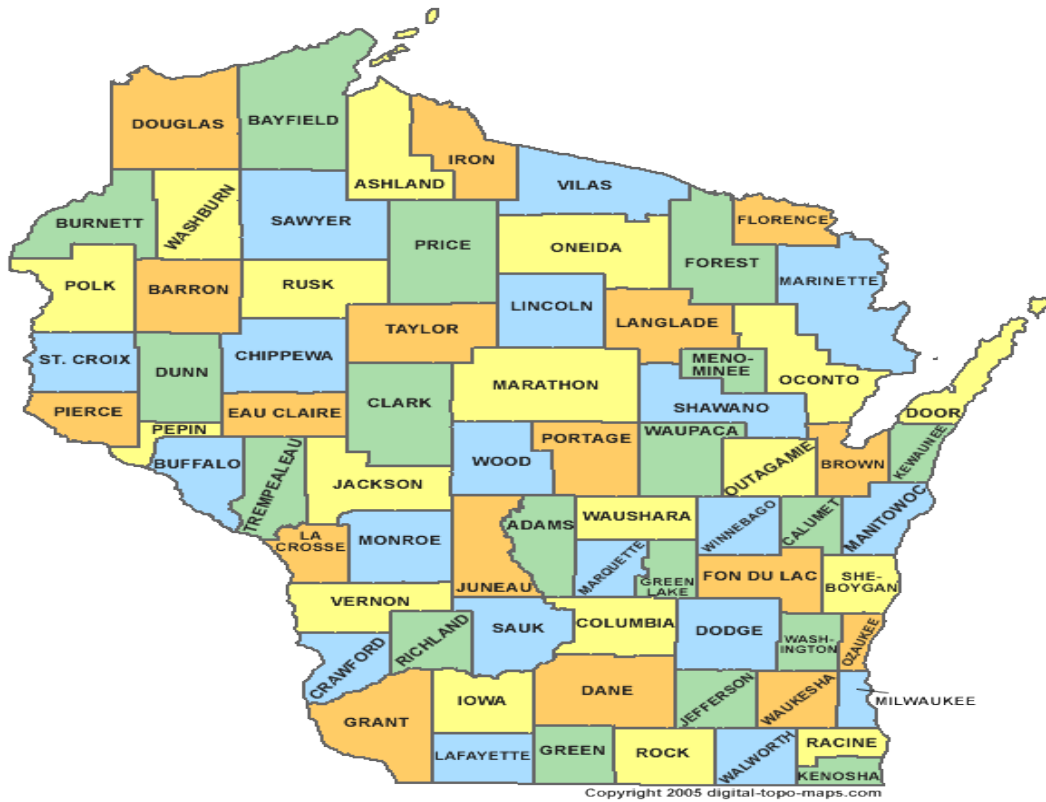


## Multimin PUTS MICRO MINERALS ON THE MAP!

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

Plants may have subnormal zinc levels in Wisconsin so producers need to be concerned about zinc with cattle on feed from these areas. Signs of zinc deficiency include reduced feed intake and rate of gain. In the United States, copper deficiencies are most common in Florida, Wisconsin, Michigan and New York where fruits and vegetables are grown.



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 :

Cattle nutrition. 7 Vital trace minerals for cattle.

Power J.F., Prasad R. Soil fertility management for sustainable agriculture