**TOXIC METALS (TOTAL)**

![Graph showing the distribution of toxic metals (As, Cd, Cr, Pb, Hg, Ni, Co, Mo) across different categories: CN - Does Not Have Capability, Not CN, CN - Has Capability.]

![Graph showing the distribution of Selenium (Se) across different categories: CN - Does Not Have Capability, Not CN, CN - Has Capability.]

The graphs illustrate the total content of various toxic metals and Selenium (Se) across different capability categories.
TOXIC METALS (SPECIATION)
MICROBIAL PATHOGENS

Salmonella spp.
L. monocytogenes
Pathogenic E.coli
Mold Identification

CN - Does Not Have Capability
Not a CN
CN - Has Capability
POISONS/TOXINS

- Total Aflatoxins
- Fumonisin
- Deoxynivalenol
- Ochratoxin
- Zearalenone
- T2 & HT2
- Dioxin
- Pentobarbital

Legend:
- Blue: CN - Does Not Have Capability
- Red: Not a CN
- Grey: CN - Has Capability
VITAMINS & VETERINARY DRUGS

Vitamin D
Lasalocid
Monensin

CN - Does Not Have Capability
Not a CN
CN - Has Capability
Human Important Antibiotics
Ionophore Drugs
Monensin, Lasalocid, CTC, Decoquinate, Amprolium
Most Commonly Used Animal Drugs
Only Done When There Is A Need (Complaint, News, Etc...)

DRUG RESIDUES

- CN - Does Not Have Capability
- Not a CN
- CN - Has Capability
PESTICIDE RESIDUES

- Driven by Complaint or External Factor
- Organophosphates, Herbicides Most Commonly Used in Production of Grains
- USDA NOP List
NEXT STEPS/TAKEAWAYS

Next Steps
- Identifying Equipment Needs
- Matrix Extension Work
- New Method Validation Work
- Future Training Opportunities
- Best Practices Guidance

A Few Takeaways
- Se
- Speciation
- Microbial Pathogens
- Dioxin and Pentobarbital
- Vitamins/Drugs/Drug Residues
- Pesticide Residue Work
THANK YOU!