

AOAC Ag. Community FERT Sub-Committee Method Ranking 05/05

Rank	Method	Method Description	Champion
1	Nutritive Metals by New Procedures	Nutritive Metals by New Procedures - Using the new trace metals procedure we can also analyze nutritive metals such as Cu, Mn & Zn. This method has already been collaborated for trace metals.	
2	Trace Metals by Alternate Equipment	Trace Metals by Alternate Equipment Champion - James Bartos U. of KY Reg. Services; Hotplate and Hot Block digestion for ICP OES trace metals analysis. This method is needed for labs without microwave capability	James Bartos/ University of KY
3	Quality Control Guidelines For Fert. Labs	Quality Control Guidelines For Fertilizer Labs GLP quality programs	
4	Citrate Extractable P₂O₅ & K₂O by ICP OES	Citrate Extractable P₂O₅ & K₂O by ICP OES Champion - Sanford Siegel, CF Industries; Description and drivers - Current wet chemistry equipment may soon not be supported by vendors. An alternate to wet chemistry is ICP-OES for determining major nutrients. This method could be used to rapidly determine P ₂ O ₅ and K ₂ O in a more timely and hopefully as accurate & precise manner.	Sanford Siegel/ CF Industries
5	Accelerated Extraction of Slow Release Nut.	Accelerated Extraction of Slow Release Nut. Some products are making specific release claims for nutrients in days of availability. No method is available to analyze for these claims.	Bill Hall
6	Update Methods of Sample Preparation	Update Methods of Sample Preparation - Expand section with more explanations and equipment options.	
7	Hg - New Methods	Hg - New Methods No method is currently available for fertilizers.	
8	Total P analysis by ICP - OES AFPC method	Total P analysis by ICP - OES AFPC method	
9	Update Wet Chemistry Methods	Update Wet Chemistry Methods New instruments, computerization, data handling and safer reagents make this update important for many reasons.	
10	New Physical Parameter Methods - SGN...	New Physical Parameter Methods - Include Sieve analysis, SGN, UI and Mixing Quality Index. Include computer calculations and rapid methods, blending tools and decision aids.	
11	Simultaneous Citrate soluble N-P-K Analysis by ICP	Simultaneous Citrate soluble N-P-K Analysis by ICP - Time and money saver if possible and achieves needed accuracy.	
12	Bag Sampling - Mini - Bulk Bags And Large Sacks	Bag Sampling - Mini - Bulk Bags And Large Sacks - Already complete, just needs to be put into AOAC style and submitted for approval.	

13	Improved Method for Citrate Insoluble P2O5	Improved Method for Citrate Insoluble P₂O₅ - Improve reproducibility by automating shaking and temperature control methods to reduce sample and analyst variation sample to sample.	
14	Update Methods of Sampling and Equipment	Update Methods of Sampling and Equipment -Include new sampling of bulk trucks and Killebrews as well as updating trier specifications.	
15	Phosphite Method Differentiate HPO3 from P2O5	Phosphite Method Differentiate HPO₃ from P₂O₅ Now allowed as an ingredient, but considered a non-effective form of P. Need to differentiate from P2O5.	
16	Compost Sampling, Preparation and Analytical Methods	Compost Sampling, Preparation and Analytical Methods -Discuss Adoption of TMECC methods and analysis by traditional fertilizer methods. Should this group have its own Community due to such differences in the methods and the large number of methods that need to be adopted?	
17	Boron in Raw Materials @ High Concentrations	Boron in Raw Materials @ High Concentrations -(>10%) Current method does not work for High B concentrations. A simple method modification can be made to allow for accurate analysis.	
18	Harmonize Current AOAC/CEN Methods	Harmonize Current AOAC/CEN Methods - Collaborating with other international organizations (CEN, ASTM...) during method development.	
19	IC Analysis of ClO4- in high TDS matrices	IC Analysis of ClO₄⁻ in high TDS matrices - Study is already complete. Just needs to be put into AOAC style and submitted.	
20	EPA Initiatives - Zn in waste ZN SO4	EPA Initiatives (Likely Covered by Nutritive method) Zn in waste ZN SO4	
21	Total N Analysis by ICP - OES	Total N Analysis by ICP - OES	
22	Chem. Background & explanation for interferences	Chem. Background & explanation for interferences - incorporating a section in each method to address problem areas and likely interferences.	
23	Available Si Analysis	Available Si Analysis - Per AAPFCO Definition Proposed Si as a nutrient, will need analytical method for regulatory purposes.	
24	Humic/Fulvic acid Methods of Analysis	Humic and Fulvic acid Methods of Analysis - Compost related?	
25	Low/mid-Level TN, NO3N, NH3N & P in Water		
26	Water-dispersible elemental sulfur		
27	Single FL w/s micronutrient/method		
28	Screening method for trace metals (Th, U...)		