

# New Data Reporting and Statistical Reports

## Magruder 2015

Significant change is occurring with the Magruder Program in 2015. Laboratories will enter results on the web rather than mailing or emailing paper report forms to the Statistician. The statistical reports will also be in a different format. The March 2015 sample is the first sample where the change will take place.

### User Log In

Laboratories will report results on the web rather than filling out and mailing or emailing paper report forms to the Statistician. Clicking on LAB PORTAL takes the user to a log in web page to enter the Federation of Animal Science Societies (FASS) web site used for data entry and posting reports. A user name and password will be supplied to each laboratory contact via email. Multiple users are allowed for each laboratory. Once in the site, users have the option to enter data for the methods they perform. Detailed instructions on Data Entry are available at the “Data Entry Instructions” link.

### Method Codes

Method codes have undergone *significant* revision and will be available on the web site at the “Method Codes” link. Only new methods codes will be available for data entry. The list of method codes was modified to provide more meaningful data in statistical analyses. Examples of changes are the new codes for sulfur and metals. The old method codes for sulfur (144.xx) no longer exist. These codes did not readily distinguish between different forms of sulfur (sulfate vs total sulfur). New method codes for sulfur exist from 143.xx through 149.xx that provides greater specificity on the form of sulfur and the type of fertilizer. The codes for metal analyses provide greater specificity on the method used.

### Reports

Statistical reports will also undergo a major change. Examples of the reports to be generated are available in the LAB PORTAL web site under the 2014 Regular Check Sample Program for 3 Magruder samples in 2014.

General reports are available summarizing all laboratory data sorted by analyte (first three numbers of method code) or by method (last two numbers of method code). Individual lab performance reports (Report Cards) are also available through the LAB PORTAL which requires user log in. Definitive letter grades are not recommended by the International Harmonized Protocol for proficiency testing programs. Rather than providing letter grades for each method tested, information will be provided for laboratories to interpret and evaluate their performance using their own standards. There will be an Analyte Report Card and a Method Report Card. The Analyte Report Card will compare the individual lab value to all lab values for the analyte regardless of method. This comparison is what is appropriate for evaluating laboratory proficiency in testing the analyte. A chart is present in this report with a graphical depiction of how the individual lab values compares to all other lab results for that analyte. The Method Report Card compares the individual lab result to all other results for a particular method to test the analyte.

A unique aspect of the statistical reports will be inclusion of information showing when a lab result falls below the robust mean for a guaranteed analyte minus the Investigational Allowance defined by the American Association of Plant Food Control Officials (AAPFCO).