# Australasian Soil and Plant Analysis Council Inc.

# ASPAC Plant Proficiency Testing Program Report

# 2021

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June 2022

**ISSN # 1446-3598**

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**An appropriate citation for this report is:**

Kennelly, P., Lancaster, G. and Hill, R.J. (2022). *ASPAC Plant Proficiency Testing Program Report 2021.* ASPAC, Melbourne, Victoria.

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# Foreword

This is the latest of ASPAC's many inter-laboratory proficiency program (ILPP) reports for plants since 1994. This reporting format for plants has applied since ASPAC's 2004-05 annual program (see Rayment *et al*. 2007)[1]. The ILPPs for plant tissue chemical tests have three "rounds" each of four carefully prepared samples. Similar annual programs for soil samples operate concurrently (e.g., Lyons *et al*.2013)[2].

This ILPP continued ASPAC's Australasian focus and targeted laboratories in the private, government and university sectors that provide soil testing services for a range of purposes. These mostly locate in Australia, New Zealand, Oceania, and in parts of South-east Asia.

The Service Provider for ASPAC is Global Proficiency Ltd. This company operates mainly out of New Zealand, with key personnel and contact details provided on page iv.

Technical aspects of this ILPP were specified and over-sighted by ASPAC's Laboratory Proficiency Committee (LPC), recent membership of which is listed on page iv. In addition, LPC members and two key personnel from the Service Provider participate annually in a Technical Advisory Group (TAG), chaired by a senior representative of the Service Provider.

The ASPAC-LPC and the ASPAC Executive Committee also appreciate the efforts made by laboratories who utilized this method-specific proficiency program. By participating, they share a commitment to and responsibility for perceived measurement quality across Australasia, noting that proficiency in measurement is only a component of laboratory accreditation to Australian Standard AS ISO/IEC 17025:2018, and New Zealand Standard NZS ISO/IEC 17025:2018, which should be an achievement goal for laboratory managers.

An electronic copy of this report, and other similar completed annual program reports, can be downloaded from ASPAC's public web site at www.aspac-australasia.com.

Dr Roger Hill
ASPAC-LPC Convenor

1 Rayment, G.E., Peverill, K.I., Hill, R.J., Daly, B.K., Ingram, C. and Marsh, J. (2007). ASPAC Soil Proficiency Testing Program Report 2004-05. (73 + vi pp.) ASPAC, Melbourne, Victoria.

2 Lyons, D.J., Rayment, G.E., Daly, B.K., Hill, R.J., Ingram, C. and Marsh, J. (2013). "ASPAC Plant Proficiency Testing Program Report 2008-09". (47 + vi pp.) ASPAC, Melbourne, Victoria.

## Acknowledgements

Those commissioned by GPL to prepare plant samples and confirm homogeneity prior to circulation for proficiency testing purposes [Department of Environment and Science (DES) Queensland, Australia] are acknowledged, as are operational staff of GPL.

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[A] ***Note:*** GPL, under its "PlantChek" logo, is accredited (Accreditation No. 1) by IANZ (the New Zealand accreditation authority) to ISO/IEC 17043 standard, noting that IANZ is a full member of both the International Laboratory Accreditation Cooperation (ILAC), and Asia Pacific Laboratory Accreditation Cooperation (APLAC). GPL is also recognised by NATA (National Association of Testing Authorities of Australia) as a proficiency provider.

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# 1. Introduction

This not-for-profit, annual ASPAC Plant Proficiency Testing Program Report for 2021 documents program methodology, summary statistics, and a full listing of results by test for three "rounds" of plant tissue chemical testing. For historical details on earlier annual plant ILPP's undertaken by ASPAC, refer to Rayment *et al*. (2007) referenced earlier in this report. These reports are also available for downloading from ASPAC's public web site at *www.aspac-australasia.com.*

The report includes an outline of how ASPAC now confers performance-based, method-specific certification to laboratories that regularly participate. To respect confidentiality, the cross-reference between laboratory name and laboratory identification number is not included. However, laboratories certified as proficient for specific tests in this annual program were documented at the time on ASPAC's public website.

# 2. Program Details

## 2.1 Responsibilities

GPL- see page iv -under its "PlantChek" arrangements, was contracted by ASPAC as the soil ILPP provider for 2021. Accordingly, GPL had responsibility on a "round-by-round" basis for sourcing and preparation of samples, for ensuring the samples met international and/or within-country quarantine requirements, and for the timely supply of samples to participating laboratories. GPL also undertook data analysis and "round-by-round" reporting for ASPAC and assembled the summary and "raw" data provided in Section 3 and Appendix 4, respectively, of this report.

ASPAC's LPC- see page iv- had responsibility to implement and resolve matters of policy and to provide guidance on technical matters specific to soil chemical testing both to GPL and to laboratory participants. The LPC also undertook occasional checks and audits for quality control purposes, participated in the earlier mentioned TAG, contributed to training workshops, and assisted (on request) laboratory managers with technical aspects on measurement improvement. As always, laboratory managers were encouraged to seek help from ASPAC when shown to be operating at levels of measurement performance below their peers.

Participants receive or have a unique, confidential laboratory number, subsequently used to identify the origin of each result presented in program reports and lists of results. This identification number has typically carried forward from one annual program to the next, but code numbers changed in 2014-15 and beyond.

ASPAC's web-site manager and others updated the public web site with details on method-specific certifications and lists of laboratories that undertook those soil tests. The proficiency data used was supplied by GPL and over-sighted by the Convener of the ASPAC-LPC.

## 2.2 Plant program participation

Some 40 laboratories submitted results for at least one plant test in 2021. Names and other summary contact details for the participants are provided in Appendix 1. There were 31 laboratories involved from Australia, an increase of 6 from 2020 (QLD=8; VIC=8; NSW=5; WA=5, SA=3; TAS=1; ACT=1), 6 from New Zealand (no change), and 3 from Asia and the South Pacific (Fiji, Papua New Guinea and Uruguay.), a decrease of 2 from 2020.

## 2.3 Tests and round participation

Three proficiency rounds for testing plant materials were offered in 2021, each comprising of four samples. The participation for each round is listed in Table 1. Participants are not required to submit results for every one of these

tests. Laboratories are invited to analyse each sample supplied using the methods they normally employ, on the assumption that all results were reported on a 65°C oven-dry basis, not on an "as received" basis.

Excluding Nitrate Nitrogen, all tests listed in Table 1 are assumed to be total element concentrations in the plant material. However, some results reported as "totals", such as Al and Si, may only reflect acid-digestible concentrations. The analytical methods used are not described in detail in this report, however method-indicating codes are summarized in Tables 5 and 6 of Appendix 4, while relevant codes are included with raw-data tabulations in Appendix 4.

**Table 1. Plant tests and the arithmetic average numbers of results per round submitted by participating laboratories in the ASPAC 2021 Plant ILPP ILPP.**

| Plant Tests | Symbol | Units | Number of results submitted by participating laboratories | | |
|---|---|---|---|---|---|
| | | | Feb 21 | May 21 | Aug 21 |
| Aluminium | Al | mg/kg | 29 | 25 | 29 |
| Boron | B | mg/kg | 33 | 29 | 33 |
| Cadmium | Cd | µg/kg | 23 | 17 | 22 |
| Calcium | Ca | % | 38 | 31 | 36 |
| Carbon | C | % | 25 | 25 | 27 |
| Chloride | Cl | mg/kg | 20 | 18 | 18 |
| Cobalt | Co | µg/kg | 24 | 20 | 23 |
| Copper | Cu | mg/kg | 37 | 30 | 35 |
| Iron | Fe | mg/kg | 37 | 31 | 35 |
| Lead | Pb | µg/kg | 21 | 16 | 20 |
| Magnesium | Mg | % | 38 | 32 | 35 |
| Manganese | Mn | mg/kg | 37 | 31 | 36 |
| Molybdenum | Mo | µg/kg | 25 | 21 | 23 |
| Nitrogen | N | % | 33 | 31 | 35 |
| Nitrate Nitrogen | NO3-N | mg/kg | 16 | 13 | 16 |
| Phosphorus | P | % | 38 | 31 | 37 |
| Potassium | K | % | 38 | 31 | 36 |
| Selenium | Se | µg/kg | 23 | 19 | 20 |
| Silicon | Si | % | 13 | 13 | 14 |
| Sodium | Na | % | 36 | 29 | 34 |
| Sulphur | S | % | 34 | 30 | 33 |
| Zinc | Zn | mg/kg | 37 | 31 | 36 |

## 2.4 Sample preparation and identification

Before distribution to participants, potential samples were assessed for homogeneity. Specifically, 10 containers of each sample were selected at random from the sub-sampled batch, according to the principles described by Thompson and Wood (1993)[3].These sub-samples were then tested in duplicate for plant total N, using Dumas combustion. The tests were conducted in one laboratory that was accredited to ISO 17025 standard.

Results from homogeneity testing were subsequently statistically assessed according to ISO REMCO Protocol N231 "*Harmonised Proficiency Testing Protocol*" of January 1992. Variations between samples were such that all sample batches were considered to meet homogeneity criteria suited to proficiency testing. Examples of the homogeneity data and statistical assessments are summarized in Appendix 2. In addition to testing for homogeneity, the plant samples were irradiated or otherwise rendered biologically benign to comply with international and/or national biosecurity regulations or requirements[4].

Ultimately, the samples used in the three rounds of the 2021 program were distributed and coded as follows: February 2021: ASP 2102-1 to 2102-4; May 2021: ASP 2105-1 to 2105-4 and August 2021: ASP 2108-1 to 2108-4. The first 2 digits refer to the year in which the "round" took place, the next 2 digits to the month of that year, and the final digit to 1 of the 4 samples per round. The association between sample code and sample type is provided in Table 2. All 12 plant tissue samples were sourced from Australia, with 7 samples previously presented in earlier ILPP years.

**Table 2. Sample identification and the origin of the samples included in the 2021 ASPAC plant ILPP.**

| *Sample ID* | *Round ID* | *Sample Type* | *Origin* | *Previous Rounds* |
|---|---|---|---|---|
| ASP 2102-1 | **Round 2 20210208** | Capsicum | Australia | ASP1605-2, ASP1708-4, ASP1908-1 |
| ASP 2102-2 | | Citrus Leaves | Australia | ASP1905-3 |
| ASP 2102-3 | | Lucerne Chaff | Australia | ASP1905-4 |
| ASP 2102-4 | | Fava Beans | Australia | ASP2002-4 |
| ASP 2105-1 | **Round 5 20210503** | Blueberry Leaves | Australia | ASP1705-1, ASP1908-4 |
| ASP 2105-2 | | Black Lentils | Australia | N/A |
| ASP 2105-3 | | Red Rice | Australia | N/A |
| ASP 2105-4 | | Split Peas | Australia | N/A |
| ASP 2108-1 | **Round 8 20210802** | Eggplant Leaves | Australia | N/A |
| ASP 2108-2 | | Wheat Chaff | Australia | ASP1902-4 |
| ASP 2108-3 | | Olive Leaves | Australia | N/A |
| ASP 2108-4 | | Brown Rice | Australia | ASP1605-2, ASP1708-4, ASP1908-1 |

[3] Thompson, M. and Wood, R. (1993). International harmonized protocol for proficiency testing of (chemical) analytical laboratories. *Journal of AOAC International* ***76*** (4): 926 – 940.

[4] Rayment, G.E. (2006). Australian efforts to prevent the accidental movement of pests and diseases in soil and plant samples. *Communications in Soil Science and Plant Analysis* **37**: 2107-2117.

## 2.5 Data analysis and periodic reporting

Laboratory results, after submission to GPL, were entered into a database and independently checked for data transfer accuracy prior to data processing. From the beginning of 2015, laboratories were able to submit results electronically, as .csv files, for direct transfer to the database. Checks were still made of data loaded in this way. The non-parametric assessment of laboratory performance for each sample and method was performed by an iterative statistical procedure similar to that used in WEPAL inter-laboratory proficiency programs of Wageningen University. This procedure[5,6] is suited to datasets of as few as seven laboratories, although larger laboratory populations are best. An outline of the "median / MAD" statistical procedure is provided in Appendix 3, with terms described in Table 3.

In addition to medians and MADs, other statistical parameters (also described in Table 3) were calculated before and following the omission of non-conforming results. The raw data submitted by participating laboratories on a test-by-test basis are documented in Appendix 4, sometimes rounded for table formatting purposes.

Results submitted by each laboratory were expected to have three significant figures, unless protocol or common sense dictated otherwise. For example, the program accepted data where it was common to report measured concentrations to the nearest third decimal point, such as 0.001 mg/kg for those trace metals reported in mg/kg, while two decimal places were accepted for other tests, rather than to three significant figures. However, the program (like others internationally) did not accept a zero value nor a result reported as less than (<) or greater than (>) a specified number. In cases where the expected value was below the laboratory's lower limit of reporting, the expectation was that the laboratory would either report the raw concentration readout from the instrument in absolute terms or a value half-way between that value and zero. For high values, it was expected that plant digests would be suitably diluted.

Interim reports for each "round", summarizing measurement performance relative to the performance of all laboratories that undertook the same test/s, were routinely and quickly emailed to participants. The main purpose of these Interim Reports was to provide timely feedback and to enable laboratories to take prompt remedial action where appropriate. Interim reports also provided an opportunity to correct for any data-transfer and data-processing misinterpretations. In addition, newsletters from GPL were sent to all participating laboratories. Their main purpose was to assist in the interpretation of interim reports. Also included in GPL's newsletters was information about upcoming events and operational administration of the program.

Laboratories that participated in the annual plant ILPP all received from GPL (on behalf of ASPAC) a laboratory-specific, confidential, Annual Summary Report. Each laboratory's data for the 12 plant samples, the aggregate data from all participants, other relevant statistical data, and whether or not the test/s received ASPAC Certification (if applicable), were provided. The confidential laboratory code number was included.

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5 Rayment, G.E., Miller, R.O. and Sulaeman, E. (2000). Proficiency testing and other interactive measures to enhance analytical quality in soil and plant laboratories. *Communications in Soil Science and Plant Analysis* **31**: 1513-1530.

6 Whitehouse, M.W. (1987). Medians and MADs - Statistical methodology used at Wageningen, The Netherlands, for interlaboratory comparisons in the plant exchange program. Ag. Chem. Br. Report, ACU87/36. 10 pp. (Qld Dept. Primary Ind., Brisbane.)

**Table 3. Statistical terms and their meanings in the context of this ASPAC annual report**

| *Statistical term* | *Meaning and/or derivation* |
|---|---|
| Count or number | Original population size. |
| Maximum i | The highest of a range of values, based on the initial data set. |
| Minimum i | The lowest of a range of values, based on the initial data set. |
| Median | The median is the score at the 50th percentile. It is the middle observation of a sequentially sorted array of numbers, except in the case of an even sample size. Here it is the arithmetic mean of the two observations in the middle of the sorted array of observations. The median of a reasonably sized array of numbers is insensitive to extreme scores. |
| Mean[A] | The arithmetic mean (or average) is the sum of the values of a variable divided by their number. It represents the point in a distribution of measurements about which the summed deviations equal zero. The arithmetic mean is sensitive to extreme measurements. |
| MAD | The Median of the Absolute Deviations, calculated as the median of the absolute values of the observations minus their median. |
| Interquartile range (IQR) | This is calculated by subtracting the score at the 25th percentile (referred to as the first quartile; $Q_1$) from the score at the 75th percentile (the third quartile; $Q_3$). This value is affected by the assumptions made in the calculation of the first and third quartiles, particularly for low population sizes. Moreover, these differences exist within and across statistical software packages. Prior to the 2004-05 rounds, ASPAC used the algorithm employed by EXCEL and some others. From the 2004-05 program, the algorithm employed has been that of SAS Method 4[7]. In summary, IQR = $Q_3$-$Q_1$. |
| Normalized IQR | This equates to IQR x 0.7413, where the latter is a normalizing factor. |
| Robust % CV[8] | The robust coefficient of variation (Robust % CV)<br>= (100 x normalised IQR / median). For simplicity, the Robust %CV shown is for the initial results, and also for the "final" population of results for a test after the removal of "outliers" and perhaps "stragglers", usually following one or two iterations.<br>Note that for Interim Reports, this term is estimated as = (100*MAD*1.483)/ Median, separately for "i" and "f" datasets. |
| Letter "i" and the letter "f" associated with medians, means, MADs, IQR and Robust %CVs. | The letter "i" relates to the initial data set. The letter "f" relates to the "final" data set, generated after one or two iterations typically after removal of laboratories with statistical "outliers" (if any), and statistical "stragglers" (if any). |

A When the mean is greater than the median, the distribution is positively skewed. When the mean is lower than the median, the distribution is negatively skewed.

7 SAS Procedure Guide.

8 "Guide to NATA Proficiency Testing". 27 pp. (National Association of Testing Authorities, Australia, December 1997).

## 2.6 ASPAC's criteria for certification of laboratories for plant tests

Subject to satisfactory measurement performance, typically for 12 samples across three sequential rounds in a 12-month period, ASPAC awards participating laboratories with a printed, signed and dated *Certificate of Proficiency.* The *Certificate of Proficiency* identifies performance for each test that met criteria set by ASPAC. Certification for a given test (not laboratory accreditation) applies when a laboratory incurs no more than four demerit points for the 12 samples.

Demerit points (if any) were allocated through the identification of "outliers" and "stragglers" by the "median / MAD" statistical procedure mentioned earlier in this report. Appendix 3 provides details on how "outliers" and "stragglers" were identified. Two demerit points were allocated to each statistical "outlier", while a statistical "straggler" was allocated one demerit point. As no sample result could be both an "outlier" and a "straggler", a maximum of two demerit points is all that could accrue per sample for a specific test.

For any single "round" of four samples, three (3) was set as the maximum number of demerit points for a specific test. This was done so that unsatisfactory measurement for a test in one "round" did not in itself result in failure to be certified for that test across the three rounds in the designated 12-month period.

If a "round" was missed, the maximum number of three demerit points for every test in that "round" was allocated, unless very special circumstances applied and was known or advised expeditiously to the ASPAC-LPC through its Convenor. When the explanation was accepted, performance from the three most recently completed rounds was used to assess eligibility for certification.

Finally, if less than seven laboratories submitted results for a particular test and/or sample, proficiency assessments could not be made statistically with an acceptable level of confidence and hence certification for the specific tests could not be granted.

No certification was provided for the (total) plant Si test because the LPC determined that laboratories using digestion procedures could not possibly be getting all plant Si into solution because Si is mostly insoluble in digestion acids except hydrofluoric acid. Very few laboratories currently use methods that are able to determine true total Si (e.g. acid digests that include HF, X-Ray Fluorescence Spectroscopy, Neutron Activation Analysis and Alkaline Fusion techniques).

ASPAC's *Certificates of Proficiency* are only issued on completion of each annual program of three rounds. Nowadays, ASPAC provides details of certified laboratories by test on its public web site. Certifications obtained in the 2021 Plant program remained valid until superseded by findings from the following Plant ILPP.

## 3. Summary Statistics

This section provides summary information and data (sometimes rounded only for table formatting purposes) on a test-by-test basis (in alphabetical order) for each of the 12 samples used across the three rounds in 2020. The tabulations include values relevant to the iterative "median / MAD" procedure plus other parametric and robust statistics. For the meaning or derivation of the terms used in the tabulated summaries, see Table 3 and Appendix 3. All data are expressed on a dry weight basis.

## 2021: Total Aluminum (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 30 | 30 | 30 | 27 | 26 | 24 | 25 | 25 | 29 | 29 | 29 | 27 |
| **Minimum** | 66.5 | 15.2 | 326 | 1.33 | 165 | 12 | 0.466 | 0.75 | 12.4 | 56.9 | 154 | 0.86 |
| **Maximum** | 264 | 90.2 | 630 | 13.8 | 544 | 34 | 9.57 | 19.4 | 75.7 | 114 | 355 | 23.7 |
| **Median i** | 117 | 47.3 | 409 | 3.91 | 355 | 17.2 | 3.79 | 2.16 | 42.5 | 94.6 | 306 | 2 |
| **Mean i** | 122 | 48.5 | 407 | 4.77 | 344 | 18.5 | 4.15 | 3.66 | 41.4 | 95.1 | 297 | 3.68 |
| **MAD i** | 17.5 | 6.2 | 23.5 | 0.81 | 61 | 2.7 | 0.8 | 0.74 | 5.6 | 11.4 | 20 | 0.74 |
| **IQR i** | 33.2 | 12.8 | 43.8 | 2.6 | 115 | 5.25 | 2.2 | 1.42 | 10 | 18.8 | 39 | 1.68 |
| **Robust CV % i** | 21 | 20 | 8 | 49 | 24 | 23 | 43 | 49 | 17 | 15 | 9 | 62 |
| **Median f** | 115 | 47.2 | 409 | 3.63 | 355 | 17.1 | 3.73 | 2.02 | 42.5 | 94.6 | 309 | 1.93 |
| **Mean f** | 115 | 46.9 | 402 | 3.67 | 344 | 17.4 | 3.9 | 1.95 | 41.2 | 95.1 | 314 | 2.09 |
| **MAD f** | 15.6 | 5.7 | 23 | 0.625 | 61 | 2.3 | 0.55 | 0.365 | 5.5 | 11.4 | 16 | 0.53 |
| **IQR f** | 29.5 | 10.7 | 41.3 | 1.2 | 115 | 4.75 | 1.05 | 0.863 | 9.35 | 18.8 | 31 | 1.15 |
| **Robust CV % f** | 19 | 17 | 7 | 24 | 24 | 21 | 21 | 32 | 16 | 15 | 7 | 44 |
| **Outliers** | 1 | 5 | 2 | 4 | 0 | 2 | 4 | 4 | 2 | 0 | 3 | 4 |
| **Stragglers** | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 |

## 2021: Total Boron (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 33 | 33 | 33 | 33 | 30 | 27 | 29 | 30 | 33 | 33 | 33 | 31 |
| **Minimum** | 33.5 | 44 | 7.83 | 6.18 | 55.9 | 3.25 | 0.3 | 1.39 | 9.71 | 5.83 | 1.62 | 0.1 |
| **Maximum** | 58.3 | 78 | 18.3 | 16.5 | 97.8 | 20.5 | 13.4 | 18.3 | 52.1 | 18.9 | 32.7 | 12.8 |
| **Median i** | 52.3 | 67.7 | 12.8 | 10.3 | 72.6 | 8.61 | 1.06 | 6.7 | 43.1 | 7.96 | 23.3 | 0.868 |
| **Mean i** | 50.9 | 66.3 | 12.7 | 10.3 | 72.3 | 9.06 | 1.9 | 6.88 | 41 | 8.38 | 22.8 | 1.63 |
| **MAD i** | 1.8 | 2.3 | 0.6 | 0.51 | 3.3 | 0.56 | 0.46 | 0.56 | 3 | 0.66 | 2 | 0.322 |
| **IQR i** | 3.3 | 5 | 1.1 | 0.9 | 7 | 1.1 | 1.26 | 0.993 | 5.8 | 1.29 | 4 | 0.619 |
| **Robust CV % i** | 5 | 5 | 6 | 6 | 7 | 9 | 88 | 11 | 10 | 12 | 13 | 53 |
| **Median f** | 52.5 | 67.8 | 12.9 | 10.4 | 73.2 | 8.47 | 0.956 | 6.7 | 44.2 | 7.81 | 23.6 | 0.72 |
| **Mean f** | 52.4 | 68.3 | 12.9 | 10.4 | 72.8 | 8.58 | 1.05 | 6.61 | 44.1 | 7.8 | 23.8 | 0.748 |
| **MAD f** | 0.95 | 1 | 0.4 | 0.3 | 2.7 | 0.54 | 0.285 | 0.39 | 1.85 | 0.36 | 2 | 0.29 |
| **IQR f** | 1.8 | 2.83 | 0.8 | 0.7 | 5.28 | 0.94 | 0.57 | 0.76 | 3.13 | 0.773 | 3.48 | 0.5 |
| **Robust CV % f** | 3 | 3 | 5 | 5 | 5 | 8 | 44 | 8 | 5 | 7 | 11 | 51 |
| **Outliers** | 4 | 6 | 7 | 6 | 2 | 5 | 4 | 6 | 4 | 4 | 3 | 5 |
| **Stragglers** | 3 | 3 | 1 | 2 | 2 | 0 | 2 | 0 | 5 | 1 | 0 | 0 |

## 2021: Total Cadmium (µg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 24 | 22 | 24 | 23 | 18 | 16 | 17 | 17 | 21 | 22 | 22 | 21 |
| **Minimum** | 200 | 0.719 | 50 | 0.586 | 0.776 | 0.5 | 9.6 | 14.4 | 1 | 210 | 3 | 6.5 |
| **Maximum** | 606 | 247 | 361 | 243 | 100 | 20 | 33.3 | 28 | 381 | 443 | 232 | 33 |
| **Median i** | 407 | 2.33 | 146 | 7.8 | 6.3 | 3.61 | 29.9 | 19.6 | 11.2 | 255 | 7.62 | 18.1 |
| **Mean i** | 400 | 14.4 | 150 | 18.8 | 11.7 | 6.27 | 28.5 | 19.9 | 41.1 | 261 | 20.1 | 19.3 |
| **MAD i** | 22 | 0.52 | 8 | 1.2 | 1.3 | 0.85 | 1.55 | 2.25 | 5.1 | 12 | 0.865 | 1.4 |
| **IQR i** | 36.3 | 1.16 | 12.8 | 3.62 | 2.4 | 2.85 | 3.1 | 3.1 | 13.7 | 32.5 | 4.43 | 4.5 |
| **Robust CV % i** | 7 | 37 | 6 | 34 | 28 | 59 | 8 | 12 | 91 | 9 | 43 | 18 |
| **Median f** | 407 | 2.33 | 146 | 7.8 | 6.3 | 3.61 | 29.9 | 19.6 | 11.2 | 255 | 7.62 | 18.1 |
| **Mean f** | 407 | 2.26 | 147 | 8.24 | 6.44 | 3.69 | 30.1 | 19.4 | 13.4 | 251 | 7.69 | 17.9 |
| **MAD f** | 22 | 0.52 | 8 | 1.2 | 1.3 | 0.85 | 1.55 | 2.25 | 5.1 | 12 | 0.865 | 1.4 |
| **IQR f** | 27 | 0.693 | 10 | 1.64 | 1.94 | 0.875 | 3 | 2.28 | 11.6 | 28.5 | 1.04 | 2.3 |
| **Robust CV % f** | 5 | 22 | 5 | 16 | 23 | 18 | 7 | 9 | 77 | 8 | 10 | 9 |
| **Outliers** | 3 | 4 | 3 | 6 | 3 | 4 | 2 | 1 | 3 | 3 | 9 | 6 |
| **Stragglers** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## 2021: Total Calcium (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 38 | 38 | 38 | 38 | 32 | 29 | 31 | 32 | 36 | 36 | 36 | 35 |
| **Minimum** | 0.22 | 0.22 | 0.426 | 0.0542 | 0.302 | 0.042 | 0.004 | 0.0269 | 0.43 | 0.0563 | 1.09 | 0.00504 |
| **Maximum** | 4.11 | 4.84 | 1.12 | 0.232 | 0.44 | 0.329 | 0.239 | 0.149 | 5.93 | 0.84 | 2.61 | 0.0511 |
| **Median i** | 2.25 | 2.48 | 0.634 | 0.0993 | 0.403 | 0.0584 | 0.008 | 0.0391 | 4.61 | 0.0815 | 1.96 | 0.01 |
| **Mean i** | 2.22 | 2.45 | 0.633 | 0.103 | 0.398 | 0.0693 | 0.0182 | 0.0445 | 4.37 | 0.104 | 1.93 | 0.012 |
| **MAD i** | 0.09 | 0.09 | 0.025 | 0.0042 | 0.0095 | 0.0024 | 0.00072 | 0.00115 | 0.285 | 0.0045 | 0.085 | 0.00119 |
| **IQR i** | 0.183 | 0.178 | 0.0463 | 0.009 | 0.0193 | 0.005 | 0.00193 | 0.0033 | 0.545 | 0.00908 | 0.168 | 0.00243 |
| **Robust CV % i** | 6 | 5 | 5 | 7 | 4 | 6 | 18 | 6 | 9 | 8 | 6 | 18 |
| **Median f** | 2.25 | 2.52 | 0.638 | 0.0987 | 0.404 | 0.0582 | 0.008 | 0.039 | 4.65 | 0.0804 | 1.96 | 0.0098 |
| **Mean f** | 2.23 | 2.51 | 0.631 | 0.0981 | 0.405 | 0.0584 | 0.0078 | 0.0389 | 4.66 | 0.0811 | 1.96 | 0.00958 |
| **MAD f** | 0.08 | 0.065 | 0.016 | 0.00265 | 0.007 | 0.0014 | 0.00042 | 0.0009 | 0.24 | 0.0034 | 0.07 | 0.00099 |
| **IQR f** | 0.14 | 0.123 | 0.03 | 0.005 | 0.014 | 0.00273 | 0.000655 | 0.0011 | 0.485 | 0.0061 | 0.14 | 0.0019 |
| **Robust CV % f** | 5 | 4 | 3 | 4 | 3 | 3 | 6 | 2 | 8 | 6 | 5 | 14 |
| **Outliers** | 4 | 9 | 3 | 5 | 6 | 7 | 7 | 10 | 5 | 5 | 5 | 6 |
| **Stragglers** | 3 | 1 | 4 | 3 | 1 | 2 | 4 | 1 | 0 | 2 | 2 | 0 |

## 2021: Total Carbon (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 25 | 25 | 25 | 25 | 25 | 23 | 25 | 25 | 27 | 27 | 27 | 27 |
| **Minimum** | 38 | 42 | 41 | 41 | 49.1 | 39.7 | 39.5 | 40.5 | 33.8 | 43.8 | 46.7 | 1.37 |
| **Maximum** | 40.8 | 44.8 | 44.2 | 45 | 52.6 | 45.1 | 44.3 | 44.8 | 37.5 | 47.6 | 52.2 | 44.6 |
| **Median i** | 40.2 | 44 | 43.5 | 43.7 | 51.2 | 44.1 | 43.1 | 43.5 | 36.6 | 46 | 50.4 | 43.4 |
| **Mean i** | 40.1 | 44 | 43.4 | 43.7 | 51.1 | 43.8 | 42.7 | 43.2 | 36.5 | 45.9 | 50.2 | 41.6 |
| **MAD i** | 0.2 | 0.2 | 0.3 | 0.5 | 0.5 | 0.6 | 0.8 | 0.7 | 0.3 | 0.3 | 0.3 | 0.7 |
| **IQR i** | 0.3 | 0.4 | 0.5 | 1 | 0.9 | 1.1 | 1.6 | 1.4 | 0.6 | 0.55 | 0.6 | 1.65 |
| **Robust CV % i** | 1 | 1 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 1 | 1 | 3 |
| **Median f** | 40.2 | 44.1 | 43.5 | 43.8 | 51.4 | 44.1 | 43.1 | 43.6 | 36.6 | 46.2 | 50.4 | 43.6 |
| **Mean f** | 40.2 | 44.1 | 43.5 | 43.8 | 51.3 | 43.9 | 43 | 43.4 | 36.7 | 46.1 | 50.5 | 43.3 |
| **MAD f** | 0.1 | 0.1 | 0.25 | 0.5 | 0.35 | 0.6 | 0.7 | 0.6 | 0.3 | 0.2 | 0.2 | 0.55 |
| **IQR f** | 0.175 | 0.2 | 0.525 | 0.975 | 0.65 | 1.08 | 1.4 | 1.35 | 0.575 | 0.4 | 0.3 | 1.18 |
| **Robust CV % f** | 0 | 0 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 0 | 2 |
| **Outliers** | 2 | 6 | 1 | 1 | 2 | 1 | 2 | 2 | 3 | 3 | 5 | 2 |
| **Stragglers** | 5 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 |

## 2021: Total Chloride (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| No of results | 20 | 20 | 20 | 20 | 18 | 16 | 18 | 18 | 18 | 18 | 18 | 18 |
| Minimum | 3030 | 1210 | 2520 | 411 | 206 | 350 | 82 | 162 | 1500 | 5290 | 800 | 89.8 |
| Maximum | 8380 | 4850 | 9000 | 1650 | 2020 | 1310 | 1400 | 600 | 3440 | 6800 | 2240 | 500 |
| Median i | 6990 | 1630 | 8210 | 1400 | 373 | 932 | 216 | 294 | 1960 | 6260 | 980 | 307 |
| Mean i | 6820 | 1960 | 7940 | 1310 | 556 | 900 | 295 | 350 | 2090 | 6210 | 1140 | 297 |
| MAD i | 260 | 90 | 220 | 70 | 107 | 136 | 55 | 100 | 205 | 155 | 120 | 24 |
| IQR i | 445 | 238 | 395 | 100 | 361 | 234 | 111 | 240 | 313 | 280 | 235 | 73.3 |
| Robust CV % i | 5 | 11 | 4 | 5 | 72 | 19 | 38 | 61 | 12 | 3 | 18 | 18 |
| Median f | 6990 | 1630 | 8210 | 1400 | 343 | 934 | 192 | 294 | 1950 | 6260 | 950 | 314 |
| Mean f | 6990 | 1620 | 8200 | 1400 | 335 | 936 | 195 | 350 | 1960 | 6290 | 942 | 314 |
| MAD f | 110 | 55 | 70 | 30 | 49 | 136 | 47 | 100 | 130 | 120 | 50 | 13 |
| IQR f | 170 | 100 | 130 | 55 | 74.8 | 225 | 96 | 240 | 208 | 170 | 111 | 24 |
| Robust CV % f | 2 | 5 | 1 | 3 | 16 | 18 | 37 | 61 | 8 | 2 | 9 | 6 |
| Outliers | 3 | 7 | 3 | 4 | 4 | 1 | 3 | 0 | 1 | 3 | 4 | 6 |
| Stragglers | 3 | 1 | 5 | 1 | 2 | 0 | 0 | 0 | 1 | 2 | 1 | 1 |

## 2021: Total Cobalt (µg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| No of results | 25 | 24 | 24 | 24 | 21 | 18 | 20 | 20 | 24 | 23 | 23 | 22 |
| Minimum | 500 | 10.1 | 100 | 574 | 65.7 | 36.3 | 17.9 | 33.3 | 15 | 165 | 72.4 | 1.5 |
| Maximum | 1780 | 129 | 533 | 1160 | 1000 | 100 | 58.5 | 83.1 | 1000 | 273 | 300 | 48.3 |
| Median i | 1570 | 47.7 | 402 | 914 | 75 | 59.8 | 22 | 46.5 | 38.6 | 210 | 108 | 9.83 |
| Mean i | 1490 | 51.7 | 399 | 900 | 122 | 59.6 | 26.7 | 49.2 | 98.1 | 213 | 124 | 13.3 |
| MAD i | 50 | 3.05 | 8 | 57.5 | 3.1 | 2 | 1.3 | 3.4 | 7.8 | 26 | 9.3 | 2.89 |
| IQR i | 130 | 6.33 | 18.5 | 105 | 7 | 9.23 | 5.58 | 4.53 | 47.6 | 45 | 31.1 | 6.4 |
| Robust CV % i | 6 | 10 | 3 | 9 | 7 | 11 | 19 | 7 | 91 | 16 | 21 | 48 |
| Median f | 1570 | 47.7 | 402 | 914 | 75 | 59.8 | 22 | 46.5 | 38.6 | 210 | 108 | 9.83 |
| Mean f | 1550 | 47.4 | 402 | 917 | 74.6 | 59.4 | 21.5 | 46.4 | 34.8 | 213 | 108 | 10.1 |
| MAD f | 50 | 3.05 | 8 | 57.5 | 3.1 | 2 | 1.3 | 3.4 | 7.8 | 26 | 9.3 | 2.89 |
| IQR f | 90 | 5.1 | 15 | 91 | 4.73 | 2.95 | 1.35 | 3.4 | 8 | 45 | 12.2 | 5.82 |
| Robust CV % f | 4 | 8 | 3 | 7 | 5 | 4 | 5 | 5 | 15 | 16 | 8 | 44 |
| Outliers | 4 | 4 | 7 | 3 | 3 | 7 | 5 | 5 | 8 | 0 | 6 | 2 |
| Stragglers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Withdrawn

## 2021: Total Copper (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 35 | 37 | 37 | 37 | 31 | 28 | 30 | 31 | 35 | 35 | 35 | 35 |
| **Minimum** | 105 | 4.92 | 5.04 | 5.1 | 5.24 | 8.64 | 0.516 | 3.39 | 7.37 | 28 | 5.2 | 2.3 |
| **Maximum** | 152 | 12 | 13.6 | 9.07 | 8.93 | 12.5 | 7.39 | 15.5 | 22.3 | 40 | 11.5 | 7.05 |
| **Median i** | 135 | 8.74 | 11.4 | 7.82 | 5.97 | 10.2 | 2.57 | 5.74 | 15.8 | 32.5 | 8.35 | 4.36 |
| **Mean i** | 133 | 8.8 | 11.3 | 7.71 | 6.1 | 10.2 | 2.64 | 5.92 | 15.9 | 32.2 | 8.42 | 4.36 |
| **MAD i** | 5 | 0.43 | 0.5 | 0.29 | 0.26 | 0.375 | 0.185 | 0.28 | 0.9 | 1.4 | 0.38 | 0.23 |
| **IQR i** | 12 | 0.65 | 1 | 0.6 | 0.495 | 0.685 | 0.35 | 0.58 | 1.6 | 2.85 | 0.745 | 0.44 |
| **Robust CV % i** | 7 | 6 | 7 | 6 | 6 | 5 | 10 | 7 | 8 | 7 | 7 | 7 |
| **Median f** | 135 | 8.76 | 11.5 | 7.84 | 5.96 | 10.1 | 2.57 | 5.78 | 15.6 | 32.5 | 8.34 | 4.4 |
| **Mean f** | 134 | 8.88 | 11.5 | 7.84 | 5.87 | 10.1 | 2.6 | 5.76 | 15.6 | 32 | 8.31 | 4.33 |
| **MAD f** | 5 | 0.38 | 0.45 | 0.26 | 0.2 | 0.275 | 0.17 | 0.12 | 0.7 | 1.2 | 0.33 | 0.195 |
| **IQR f** | 9.75 | 0.608 | 0.825 | 0.51 | 0.46 | 0.525 | 0.32 | 0.255 | 1.45 | 2.8 | 0.69 | 0.383 |
| **Robust CV % f** | 5 | 5 | 5 | 5 | 6 | 4 | 9 | 3 | 7 | 6 | 6 | 6 |
| **Outliers** | 4 | 3 | 3 | 3 | 3 | 4 | 5 | 6 | 3 | 1 | 6 | 5 |
| **Stragglers** | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 5 | 1 | 1 | 0 | 0 |

## 2021: Total Iron (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 37 | 37 | 37 | 37 | 31 | 28 | 31 | 31 | 35 | 35 | 35 | 35 |
| **Minimum** | 206 | 56 | 248 | 28.2 | 163 | 64 | 4.02 | 32.6 | 79.1 | 75.1 | 216 | 4.48 |
| **Maximum** | 462 | 135 | 607 | 89.7 | 245 | 91.3 | 25.7 | 51 | 211 | 268 | 341 | 31.1 |
| **Median i** | 254 | 71.9 | 336 | 46.5 | 207 | 80.2 | 8.79 | 39.7 | 106 | 217 | 288 | 12 |
| **Mean i** | 258 | 74.4 | 336 | 46.2 | 206 | 79.7 | 10.7 | 40.7 | 110 | 214 | 281 | 13.4 |
| **MAD i** | 14 | 3.4 | 19 | 2.2 | 7 | 3.5 | 1.17 | 2 | 8 | 19 | 16 | 1.6 |
| **IQR i** | 28 | 6.7 | 42 | 4.9 | 13 | 6.53 | 2.9 | 4.1 | 18.2 | 34.5 | 35.5 | 3.25 |
| **Robust CV % i** | 8 | 7 | 9 | 8 | 5 | 6 | 24 | 8 | 13 | 12 | 9 | 20 |
| **Median f** | 255 | 71.9 | 341 | 46.9 | 207 | 80.3 | 8.72 | 39.6 | 106 | 218 | 290 | 11.6 |
| **Mean f** | 256 | 71.9 | 338 | 46.4 | 208 | 80.5 | 8.75 | 39.7 | 107 | 220 | 286 | 11.5 |
| **MAD f** | 11 | 2.85 | 15 | 1.4 | 7 | 2.4 | 0.32 | 1.9 | 6.15 | 17 | 10 | 0.75 |
| **IQR f** | 19 | 5.28 | 30.5 | 2.93 | 10.5 | 4.6 | 0.63 | 3.38 | 11.2 | 31 | 28 | 1.75 |
| **Robust CV % f** | 6 | 5 | 7 | 5 | 4 | 4 | 5 | 6 | 8 | 11 | 7 | 11 |
| **Outliers** | 3 | 9 | 4 | 8 | 4 | 3 | 6 | 4 | 3 | 2 | 4 | 9 |
| **Stragglers** | 3 | 0 | 2 | 3 | 0 | 2 | 4 | 1 | 2 | 0 | 2 | 2 |

## 2021: Total Lead (µg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 22 | 21 | 21 | 20 | 17 | 15 | 16 | 16 | 21 | 20 | 21 | 19 |
| **Minimum** | 32 | 48.5 | 63.5 | 0.364 | 120 | 1 | 0.83 | 0.2 | 148 | 16.7 | 187 | 0.1 |
| **Maximum** | 1300 | 923 | 850 | 318 | 2680 | 300 | 300 | 140 | 2560 | 424 | 2450 | 231 |
| **Median i** | 58.8 | 89.5 | 152 | 5 | 150 | 4.62 | 6.21 | 3.96 | 248 | 131 | 313 | 3 |
| **Mean i** | 140 | 133 | 184 | 31.5 | 320 | 38.8 | 28.6 | 20 | 395 | 149 | 489 | 20.7 |
| **MAD i** | 2.8 | 2.85 | 6.5 | 3.02 | 7.5 | 1.22 | 4.16 | 2.5 | 17 | 11 | 15 | 1.53 |
| **IQR i** | 5.93 | 8.9 | 19 | 6.25 | 14 | 10.2 | 10.4 | 7.85 | 36 | 19 | 38 | 6.58 |
| **Robust CV % i** | 7 | 7 | 9 | 93 | 7 | 163 | 124 | 147 | 11 | 11 | 9 | 162 |
| **Median f** | 58.8 | 89.5 | 152 | 5 | 150 | 4.62 | 6.21 | 3.96 | 248 | 131 | 313 | 3 |
| **Mean f** | 58.3 | 88.6 | 151 | 5.06 | 149 | 4.06 | 7.77 | 4.57 | 249 | 132 | 315 | 3.11 |
| **MAD f** | 2.8 | 2.85 | 6.5 | 3.02 | 7.5 | 1.22 | 4.16 | 2.5 | 17 | 11 | 15 | 1.53 |
| **IQR f** | 4.85 | 5.6 | 8 | 5.21 | 11 | 1.24 | 7.04 | 4 | 32.8 | 16 | 16 | 2.93 |
| **Robust CV % f** | 6 | 5 | 4 | 77 | 5 | 20 | 84 | 75 | 10 | 9 | 4 | 72 |
| **Outliers** | 7 | 7 | 6 | 3 | 4 | 7 | 2 | 3 | 5 | 3 | 8 | 5 |
| **Stragglers** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## 2021: Total Magnesium (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 38 | 38 | 38 | 38 | 32 | 29 | 32 | 32 | 35 | 35 | 35 | 35 |
| **Minimum** | 1 | 0.434 | 0.186 | 0.079 | 0.151 | 0.077 | 0.065 | 0.0891 | 0.655 | 0.166 | 0.186 | 0.065 |
| **Maximum** | 4.62 | 1.65 | 1.85 | 1.05 | 0.21 | 0.176 | 0.152 | 0.141 | 1.3 | 0.341 | 0.416 | 0.15 |
| **Median i** | 1.22 | 0.508 | 0.233 | 0.131 | 0.192 | 0.1 | 0.0856 | 0.11 | 1.04 | 0.295 | 0.278 | 0.124 |
| **Mean i** | 1.3 | 0.539 | 0.275 | 0.153 | 0.19 | 0.102 | 0.086 | 0.112 | 1.06 | 0.292 | 0.284 | 0.121 |
| **MAD i** | 0.07 | 0.022 | 0.011 | 0.004 | 0.0055 | 0.003 | 0.0025 | 0.004 | 0.043 | 0.012 | 0.015 | 0.006 |
| **IQR i** | 0.13 | 0.038 | 0.019 | 0.00775 | 0.0105 | 0.005 | 0.0045 | 0.0095 | 0.09 | 0.0225 | 0.0295 | 0.012 |
| **Robust CV % i** | 8 | 6 | 6 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 8 | 7 |
| **Median f** | 1.21 | 0.508 | 0.233 | 0.131 | 0.193 | 0.0997 | 0.086 | 0.109 | 1.03 | 0.296 | 0.281 | 0.125 |
| **Mean f** | 1.21 | 0.513 | 0.233 | 0.13 | 0.192 | 0.0997 | 0.0855 | 0.11 | 1.04 | 0.297 | 0.285 | 0.123 |
| **MAD f** | 0.05 | 0.02 | 0.0105 | 0.003 | 0.0045 | 0.0017 | 0.002 | 0.002 | 0.0385 | 0.009 | 0.015 | 0.0055 |
| **IQR f** | 0.105 | 0.035 | 0.019 | 0.0055 | 0.00775 | 0.0035 | 0.00325 | 0.0045 | 0.07 | 0.017 | 0.0268 | 0.01 |
| **Robust CV % f** | 6 | 5 | 6 | 3 | 3 | 3 | 3 | 3 | 5 | 4 | 7 | 6 |
| **Outliers** | 2 | 2 | 2 | 5 | 3 | 8 | 7 | 7 | 5 | 3 | 3 | 5 |
| **Stragglers** | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 2 | 0 | 1 | 0 | 0 |

## 2021: Total Manganese (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 37 | 37 | 37 | 37 | 31 | 28 | 31 | 31 | 36 | 36 | 36 | 36 |
| **Minimum** | 119 | 11 | 33 | 8.89 | 262 | 10 | 12 | 11.3 | 183 | 44 | 12.8 | 18 |
| **Maximum** | 288 | 28.1 | 74.2 | 19.9 | 352 | 14.7 | 17 | 15.1 | 460 | 126 | 46.1 | 48.8 |
| **Median i** | 140 | 13.5 | 38.4 | 11.5 | 297 | 12.6 | 15.4 | 12.2 | 212 | 55.5 | 18.2 | 24.9 |
| **Mean i** | 144 | 13.9 | 39.4 | 11.7 | 295 | 12.7 | 15.3 | 12.5 | 221 | 57.3 | 18.8 | 25.4 |
| **MAD i** | 5 | 0.5 | 1.6 | 0.5 | 6 | 0.4 | 0.6 | 0.3 | 12 | 1.65 | 0.85 | 1.6 |
| **IQR i** | 10 | 1.1 | 2.7 | 1 | 17 | 0.8 | 1.2 | 1.1 | 22.5 | 3.03 | 1.65 | 3.35 |
| **Robust CV % i** | 5 | 6 | 5 | 6 | 4 | 5 | 6 | 7 | 8 | 4 | 7 | 10 |
| **Median f** | 140 | 13.5 | 38.4 | 11.5 | 298 | 12.4 | 15.5 | 12.1 | 211 | 55.5 | 17.9 | 24.9 |
| **Mean f** | 139 | 13.5 | 38.4 | 11.4 | 297 | 12.4 | 15.5 | 12.1 | 212 | 55.5 | 17.9 | 24.6 |
| **MAD f** | 4 | 0.5 | 1.25 | 0.5 | 4 | 0.3 | 0.5 | 0.3 | 11 | 1.15 | 0.7 | 1.5 |
| **IQR f** | 8.5 | 0.9 | 2.58 | 0.7 | 8.5 | 0.6 | 0.95 | 0.5 | 22 | 2.33 | 1.3 | 2.75 |
| **Robust CV % f** | 5 | 5 | 5 | 5 | 2 | 4 | 5 | 3 | 8 | 3 | 5 | 8 |
| **Outliers** | 4 | 4 | 3 | 4 | 5 | 6 | 2 | 5 | 3 | 9 | 5 | 5 |
| **Stragglers** | 2 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 0 | 1 | 2 | 0 |

## 2021: Total Molybdenum (µg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 26 | 25 | 25 | 25 | 22 | 20 | 21 | 21 | 24 | 23 | 23 | 23 |
| **Minimum** | 4420 | 31.5 | 1100 | 652 | 654 | 2540 | 425 | 2080 | 6080 | 273 | 39.9 | 114 |
| **Maximum** | 7430 | 805 | 1750 | 1530 | 2500 | 3560 | 745 | 2590 | 10800 | 995 | 625 | 874 |
| **Median i** | 5960 | 226 | 1330 | 1100 | 1040 | 3100 | 483 | 2330 | 9410 | 290 | 93 | 169 |
| **Mean i** | 5840 | 262 | 1350 | 1090 | 1090 | 3070 | 498 | 2350 | 9090 | 326 | 117 | 199 |
| **MAD i** | 190 | 11.5 | 80 | 65 | 20 | 110 | 21 | 70 | 280 | 8 | 3.3 | 7 |
| **IQR i** | 568 | 25 | 120 | 110 | 57.5 | 243 | 48 | 170 | 473 | 19.5 | 14.1 | 22.5 |
| **Robust CV % i** | 7 | 8 | 7 | 7 | 4 | 6 | 7 | 5 | 4 | 5 | 11 | 10 |
| **Median f** | 5960 | 226 | 1330 | 1100 | 1040 | 3100 | 483 | 2330 | 9410 | 290 | 93 | 169 |
| **Mean f** | 5890 | 225 | 1320 | 1090 | 1050 | 3090 | 475 | 2340 | 9440 | 290 | 92.3 | 170 |
| **MAD f** | 190 | 11.5 | 80 | 65 | 20 | 110 | 21 | 70 | 280 | 8 | 3.3 | 7 |
| **IQR f** | 245 | 11 | 120 | 110 | 50 | 180 | 42.5 | 145 | 455 | 8.75 | 5.05 | 14 |
| **Robust CV % f** | 3 | 4 | 7 | 7 | 4 | 4 | 7 | 5 | 4 | 2 | 4 | 6 |
| **Outliers** | 6 | 8 | 2 | 4 | 5 | 3 | 2 | 3 | 5 | 3 | 8 | 6 |
| **Stragglers** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## 2021: Total Nitrogen (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 33 | 33 | 33 | 33 | 31 | 28 | 31 | 31 | 35 | 35 | 35 | 35 |
| **Minimum** | 3.12 | 1.74 | 1.39 | 3.69 | 1.66 | 1.33 | 1.2 | 3.28 | 4.75 | 3.05 | 1.63 | 1.03 |
| **Maximum** | 3.91 | 2.2 | 1.72 | 4.69 | 2.51 | 4.79 | 1.72 | 4.06 | 5.63 | 3.61 | 3.55 | 44.1 |
| **Median i** | 3.74 | 2.11 | 1.63 | 4.32 | 1.99 | 4.59 | 1.61 | 3.73 | 5.44 | 3.48 | 1.93 | 1.34 |
| **Mean i** | 3.71 | 2.09 | 1.62 | 4.32 | 1.98 | 4.43 | 1.58 | 3.69 | 5.41 | 3.44 | 1.97 | 2.56 |
| **MAD i** | 0.06 | 0.04 | 0.04 | 0.08 | 0.04 | 0.095 | 0.04 | 0.09 | 0.08 | 0.06 | 0.03 | 0.05 |
| **IQR i** | 0.12 | 0.07 | 0.09 | 0.16 | 0.085 | 0.213 | 0.075 | 0.165 | 0.17 | 0.12 | 0.07 | 0.085 |
| **Robust CV % i** | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 5 |
| **Median f** | 3.75 | 2.12 | 1.63 | 4.33 | 1.99 | 4.6 | 1.61 | 3.74 | 5.47 | 3.49 | 1.93 | 1.34 |
| **Mean f** | 3.75 | 2.12 | 1.62 | 4.35 | 1.98 | 4.59 | 1.6 | 3.72 | 5.46 | 3.48 | 1.94 | 1.34 |
| **MAD f** | 0.04 | 0.04 | 0.04 | 0.07 | 0.03 | 0.07 | 0.04 | 0.08 | 0.06 | 0.04 | 0.025 | 0.04 |
| **IQR f** | 0.07 | 0.075 | 0.09 | 0.15 | 0.0575 | 0.14 | 0.06 | 0.14 | 0.12 | 0.07 | 0.0425 | 0.08 |
| **Robust CV % f** | 1 | 3 | 4 | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 2 | 4 |
| **Outliers** | 4 | 3 | 1 | 3 | 5 | 2 | 2 | 4 | 2 | 4 | 7 | 5 |
| **Stragglers** | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 4 | 2 | 0 | 1 |

## 2021: Nitrate Nitrogen (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 17 | 16 | 16 | 16 | 14 | 11 | 13 | 13 | 16 | 16 | 16 | 16 |
| **Minimum** | 2470 | 51 | 30 | 0.5 | 0.2 | 0.001 | 0.001 | 0.001 | 3380 | 0.001 | 0.001 | 0.001 |
| **Maximum** | 42500 | 1100 | 1200 | 2860 | 67 | 75 | 102 | 104 | 25000 | 55 | 62.5 | 67.5 |
| **Median i** | 3320 | 69.6 | 51.7 | 5.48 | 5.16 | 5.72 | 3.86 | 3 | 9100 | 6.27 | 7.49 | 2.24 |
| **Mean i** | 5630 | 133 | 122 | 214 | 15.1 | 15.8 | 14.8 | 12.7 | 10200 | 11.3 | 11.1 | 7.96 |
| **MAD i** | 190 | 5.25 | 5.6 | 4.07 | 3.31 | 3.25 | 3.64 | 2.42 | 720 | 2.67 | 3.68 | 1.53 |
| **IQR i** | 370 | 10.2 | 10.9 | 12.3 | 15.9 | 19 | 12.4 | 4.13 | 1230 | 4.63 | 6.97 | 3.34 |
| **Robust CV % i** | 8 | 11 | 16 | 166 | 229 | 246 | 238 | 102 | 10 | 55 | 69 | 111 |
| **Median f** | 3320 | 69.6 | 51.7 | 4.06 | 3.32 | 3 | 1 | 2.6 | 9040 | 5.5 | 6.94 | 1.18 |
| **Mean f** | 3280 | 69.4 | 51.4 | 4.01 | 3.32 | 3.77 | 2.28 | 2.83 | 8970 | 5.79 | 7.66 | 1.86 |
| **MAD f** | 140 | 3.8 | 5.15 | 2.17 | 0.365 | 1.9 | 0.999 | 1.55 | 470 | 2.26 | 3.56 | 1.08 |
| **IQR f** | 290 | 7 | 9.83 | 3.96 | 0.638 | 2.58 | 3.56 | 2.86 | 1120 | 3.88 | 6.75 | 2.28 |
| **Robust CV % f** | 6 | 7 | 14 | 72 | 14 | 64 | 264 | 82 | 9 | 52 | 72 | 143 |
| **Outliers** | 4 | 2 | 2 | 4 | 5 | 4 | 2 | 3 | 3 | 2 | 1 | 2 |
| **Stragglers** | 0 | 2 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |

## 2021: Total Phosphorus (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 38 | 38 | 38 | 38 | 32 | 29 | 32 | 32 | 37 | 37 | 37 | 37 |
| **Minimum** | 0.218 | 0.211 | 0.281 | 0.237 | 0.112 | 0.198 | 0.211 | 0.297 | 0.629 | 0.429 | 0.143 | 0.23 |
| **Maximum** | 0.357 | 0.354 | 0.454 | 0.365 | 0.153 | 0.381 | 0.279 | 0.447 | 7.31 | 0.685 | 0.249 | 0.431 |
| **Median i** | 0.309 | 0.307 | 0.385 | 0.315 | 0.135 | 0.333 | 0.242 | 0.383 | 0.798 | 0.55 | 0.18 | 0.345 |
| **Mean i** | 0.307 | 0.303 | 0.381 | 0.313 | 0.135 | 0.327 | 0.241 | 0.381 | 0.992 | 0.557 | 0.184 | 0.347 |
| **MAD i** | 0.008 | 0.008 | 0.0125 | 0.012 | 0.0035 | 0.017 | 0.012 | 0.0195 | 0.046 | 0.02 | 0.009 | 0.018 |
| **IQR i** | 0.016 | 0.0145 | 0.023 | 0.0223 | 0.00725 | 0.029 | 0.0223 | 0.0378 | 0.111 | 0.04 | 0.017 | 0.04 |
| **Robust CV % i** | 4 | 4 | 4 | 5 | 4 | 6 | 7 | 7 | 10 | 5 | 7 | 9 |
| **Median f** | 0.309 | 0.307 | 0.385 | 0.317 | 0.135 | 0.334 | 0.242 | 0.383 | 0.794 | 0.55 | 0.18 | 0.343 |
| **Mean f** | 0.31 | 0.307 | 0.383 | 0.316 | 0.136 | 0.332 | 0.241 | 0.382 | 0.801 | 0.554 | 0.182 | 0.343 |
| **MAD f** | 0.0065 | 0.002 | 0.011 | 0.0075 | 0.0025 | 0.0165 | 0.012 | 0.0185 | 0.04 | 0.016 | 0.0065 | 0.012 |
| **IQR f** | 0.013 | 0.0055 | 0.0198 | 0.0155 | 0.00675 | 0.029 | 0.0223 | 0.0343 | 0.082 | 0.0315 | 0.0145 | 0.024 |
| **Robust CV % f** | 3 | 1 | 4 | 4 | 4 | 6 | 7 | 7 | 8 | 4 | 6 | 5 |
| **Outliers** | 7 | 7 | 4 | 5 | 4 | 1 | 0 | 1 | 4 | 5 | 6 | 3 |
| **Stragglers** | 1 | 5 | 0 | 1 | 2 | 0 | 0 | 1 | 1 | 1 | 1 | 2 |

## 2021: Total Potassium (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 38 | 38 | 38 | 38 | 32 | 29 | 32 | 32 | 36 | 36 | 36 | 36 |
| **Minimum** | 3.53 | 1.34 | 1.46 | 0.705 | 0.532 | 0.623 | 0.134 | 0.805 | 3.47 | 0.322 | 0.307 | 0.147 |
| **Maximum** | 5.29 | 1.76 | 2.03 | 1.13 | 0.702 | 0.954 | 0.749 | 1.23 | 5.73 | 2.65 | 1.14 | 0.392 |
| **Median i** | 4.79 | 1.62 | 1.83 | 1.02 | 0.615 | 0.831 | 0.172 | 1.02 | 5.21 | 1.91 | 0.885 | 0.282 |
| **Mean i** | 4.69 | 1.59 | 1.8 | 1.01 | 0.615 | 0.816 | 0.192 | 1.02 | 5.07 | 1.88 | 0.878 | 0.279 |
| **MAD i** | 0.165 | 0.035 | 0.05 | 0.045 | 0.016 | 0.034 | 0.0085 | 0.0495 | 0.2 | 0.075 | 0.032 | 0.0155 |
| **IQR i** | 0.375 | 0.075 | 0.0975 | 0.084 | 0.0313 | 0.092 | 0.0148 | 0.0885 | 0.36 | 0.14 | 0.0618 | 0.0298 |
| **Robust CV % i** | 6 | 3 | 4 | 6 | 4 | 8 | 6 | 6 | 5 | 5 | 5 | 8 |
| **Median f** | 4.83 | 1.62 | 1.85 | 1.02 | 0.616 | 0.839 | 0.172 | 1.02 | 5.23 | 1.92 | 0.883 | 0.283 |
| **Mean f** | 4.82 | 1.63 | 1.86 | 1.02 | 0.62 | 0.835 | 0.174 | 1.02 | 5.25 | 1.92 | 0.884 | 0.283 |
| **MAD f** | 0.08 | 0.03 | 0.04 | 0.04 | 0.0095 | 0.022 | 0.004 | 0.04 | 0.17 | 0.05 | 0.028 | 0.014 |
| **IQR f** | 0.143 | 0.04 | 0.0775 | 0.076 | 0.0263 | 0.038 | 0.0103 | 0.075 | 0.325 | 0.1 | 0.058 | 0.0275 |
| **Robust CV % f** | 2 | 2 | 3 | 6 | 3 | 3 | 4 | 5 | 5 | 4 | 5 | 7 |
| **Outliers** | 5 | 9 | 9 | 1 | 4 | 4 | 5 | 3 | 4 | 6 | 2 | 5 |
| **Stragglers** | 5 | 0 | 1 | 0 | 2 | 2 | 5 | 0 | 1 | 1 | 1 | 0 |

## 2021: Total Selenium (µg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 24 | 22 | 23 | 23 | 20 | 18 | 19 | 19 | 20 | 20 | 20 | 19 |
| **Minimum** | 277 | 50 | 1 | 1 | 6 | 109 | 19.1 | 68 | 0.698 | 78 | 62.4 | 7 |
| **Maximum** | 25000 | 640 | 900 | 650 | 25000 | 5460 | 163 | 1830 | 20000 | 780 | 1470 | 560 |
| **Median i** | 650 | 94.1 | 79.7 | 48.4 | 14.4 | 4550 | 43.2 | 927 | 32.9 | 121 | 80.6 | 17 |
| **Mean i** | 1690 | 129 | 124 | 91.8 | 1280 | 4170 | 55.3 | 944 | 1130 | 155 | 199 | 57.8 |
| **MAD i** | 24 | 11.9 | 5.55 | 5.55 | 5.08 | 280 | 6 | 46 | 22 | 9 | 10.4 | 5 |
| **IQR i** | 54.3 | 21.3 | 25 | 13.6 | 16.9 | 658 | 18.5 | 192 | 142 | 15.3 | 34.3 | 30.7 |
| **Robust CV % i** | 6 | 17 | 23 | 21 | 87 | 11 | 32 | 15 | 320 | 9 | 32 | 134 |
| **Median f** | 650 | 94.1 | 79.7 | 48.4 | 14.4 | 4550 | 43.2 | 927 | 32.9 | 121 | 80.6 | 17 |
| **Mean f** | 644 | 89.4 | 78.6 | 49.8 | 14.8 | 4640 | 45.2 | 923 | 26.5 | 120 | 77.5 | 15.6 |
| **MAD f** | 24 | 11.9 | 5.55 | 5.55 | 5.08 | 280 | 6 | 46 | 22 | 9 | 10.4 | 5 |
| **IQR f** | 39.3 | 17.7 | 6.93 | 8.18 | 5.63 | 590 | 10.7 | 55 | 30.9 | 14 | 16.5 | 8.5 |
| **Robust CV % f** | 4 | 14 | 6 | 13 | 29 | 10 | 18 | 4 | 70 | 9 | 15 | 37 |
| **Outliers** | 6 | 5 | 9 | 7 | 4 | 3 | 4 | 6 | 7 | 3 | 5 | 6 |
| **Stragglers** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## 2021: Total Silicon (%w/w) – Not Certified

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 13 | 13 | 13 | 13 | 13 | 12 | 13 | 12 | 14 | 14 | 14 | 14 |
| **Minimum** | 0.003 | 0.002 | 0.007 | 0.001 | 0.006 | 0.003 | 0.002 | 0.000709 | 0.008 | 0.006 | 0.003 | 0.003 |
| **Maximum** | 0.14 | 0.095 | 1.38 | 0.028 | 0.303 | 0.0516 | 0.0559 | 0.0566 | 390 | 250 | 590 | 130 |
| **Median i** | 0.043 | 0.048 | 0.101 | 0.004 | 0.0554 | 0.005 | 0.004 | 0.0017 | 0.029 | 0.026 | 0.0587 | 0.0125 |
| **Mean i** | 0.0523 | 0.0515 | 0.349 | 0.0104 | 0.0892 | 0.0111 | 0.0101 | 0.00733 | 27.9 | 17.9 | 42.2 | 9.3 |
| **MAD i** | 0.0075 | 0.008 | 0.061 | 0.003 | 0.0126 | 0.00175 | 0.0014 | 0.000946 | 0.00505 | 0.0069 | 0.0147 | 0.0065 |
| **IQR i** | 0.0085 | 0.014 | 0.15 | 0.02 | 0.018 | 0.00552 | 0.004 | 0.0035 | 0.0145 | 0.0136 | 0.0407 | 0.0105 |
| **Robust CV % i** | 15 | 22 | 110 | 371 | 24 | 82 | 74 | 153 | 37 | 39 | 51 | 62 |
| **Median f** | 0.0424 | 0.0475 | 0.074 | 0.00147 | 0.0538 | 0.005 | 0.00395 | 0.00115 | 0.0243 | 0.0192 | 0.0457 | 0.01 |
| **Mean f** | 0.0407 | 0.0481 | 0.0717 | 0.00224 | 0.0547 | 0.00522 | 0.00413 | 0.0014 | 0.0263 | 0.0195 | 0.0509 | 0.0133 |
| **MAD f** | 0.0012 | 0.00625 | 0.029 | 0.003 | 0.00395 | 0.0013 | 0.0011 | 0.0003 | 0.0004 | 0.0004 | 0.0187 | 0.0051 |
| **IQR f** | 0.00415 | 0.0112 | 0.061 | 0.0015 | 0.00693 | 0.0013 | 0.0019 | 0.0006 | 0.00435 | 0.00065 | 0.0237 | 0.00922 |
| **Robust CV % f** | 7 | 17 | 61 | 76 | 10 | 19 | 36 | 39 | 13 | 3 | 38 | 68 |
| **Outliers** | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 1 |
| **Stragglers** | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 2 | 5 | 0 | 0 |

## 2021: Total Sodium (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 36 | 36 | 36 | 36 | 31 | 26 | 30 | 30 | 34 | 34 | 34 | 32 |
| **Minimum** | 40.6 | 137 | 0.226 | 89.8 | 0.0211 | 0.004 | 0.002 | 0.001 | 135 | 660 | 208 | 2.74 |
| **Maximum** | 109 | 470 | 2350 | 202 | 252 | 99.1 | 88 | 102 | 487 | 1050 | 338 | 100 |
| **Median i** | 68 | 278 | 2080 | 175 | 221 | 11 | 9.37 | 18.7 | 244 | 826 | 237 | 15.4 |
| **Mean i** | 70.5 | 278 | 1970 | 170 | 215 | 16.9 | 14.8 | 22.8 | 261 | 830 | 244 | 19.2 |
| **MAD i** | 7.35 | 14.5 | 105 | 13 | 8 | 7.67 | 3.47 | 4.05 | 13.5 | 27.5 | 11.5 | 3.2 |
| **IQR i** | 15.8 | 28 | 210 | 26.5 | 16.5 | 15.6 | 10.1 | 9.58 | 38.8 | 49.5 | 16.8 | 6.35 |
| **Robust CV % i** | 17 | 7 | 7 | 11 | 6 | 106 | 80 | 38 | 12 | 4 | 5 | 31 |
| **Median f** | 67.2 | 278 | 2110 | 177 | 220 | 10.5 | 8 | 17.6 | 240 | 826 | 236 | 13.9 |
| **Mean f** | 68.5 | 278 | 2110 | 175 | 219 | 10.1 | 7.76 | 17.7 | 240 | 824 | 238 | 14.6 |
| **MAD f** | 6.85 | 6.5 | 90 | 10 | 7 | 7.11 | 2.07 | 2.1 | 9 | 12.5 | 8 | 2.1 |
| **IQR f** | 12.7 | 12.8 | 175 | 19 | 10 | 13.3 | 4.13 | 4.4 | 17 | 23.3 | 13.5 | 4.1 |
| **Robust CV % f** | 14 | 3 | 6 | 8 | 3 | 94 | 38 | 19 | 5 | 2 | 4 | 22 |
| **Outliers** | 4 | 7 | 5 | 2 | 4 | 2 | 6 | 6 | 6 | 5 | 2 | 7 |
| **Stragglers** | 0 | 7 | 0 | 1 | 2 | 0 | 2 | 1 | 3 | 5 | 1 | 0 |

## 2021: Total Sulphur (%w/w)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 34 | 34 | 34 | 34 | 30 | 27 | 30 | 30 | 33 | 33 | 33 | 33 |
| **Minimum** | 0.127 | 0.102 | 0.101 | 0.1 | 0.169 | 0.155 | 0.0837 | 0.09 | 0.39 | 0.132 | 0.113 | 0.08 |
| **Maximum** | 0.575 | 0.214 | 0.19 | 0.192 | 0.287 | 0.266 | 0.245 | 0.238 | 0.855 | 0.33 | 0.29 | 0.136 |
| **Median i** | 0.509 | 0.187 | 0.17 | 0.166 | 0.247 | 0.226 | 0.125 | 0.132 | 0.661 | 0.263 | 0.191 | 0.095 |
| **Mean i** | 0.484 | 0.181 | 0.163 | 0.162 | 0.245 | 0.224 | 0.128 | 0.135 | 0.649 | 0.267 | 0.195 | 0.101 |
| **MAD i** | 0.0245 | 0.01 | 0.0075 | 0.007 | 0.0075 | 0.008 | 0.005 | 0.0075 | 0.025 | 0.012 | 0.012 | 0.007 |
| **IQR i** | 0.052 | 0.0175 | 0.0155 | 0.0125 | 0.016 | 0.0155 | 0.0105 | 0.0143 | 0.046 | 0.021 | 0.021 | 0.014 |
| **Robust CV % i** | 8 | 7 | 7 | 6 | 5 | 5 | 6 | 8 | 5 | 6 | 8 | 11 |
| **Median f** | 0.515 | 0.188 | 0.17 | 0.167 | 0.248 | 0.226 | 0.125 | 0.132 | 0.663 | 0.262 | 0.191 | 0.0927 |
| **Mean f** | 0.514 | 0.187 | 0.169 | 0.166 | 0.249 | 0.227 | 0.126 | 0.133 | 0.661 | 0.266 | 0.191 | 0.0933 |
| **MAD f** | 0.015 | 0.008 | 0.006 | 0.006 | 0.005 | 0.0065 | 0.004 | 0.006 | 0.015 | 0.011 | 0.01 | 0.0043 |
| **IQR f** | 0.0265 | 0.016 | 0.0133 | 0.011 | 0.0115 | 0.011 | 0.0065 | 0.0108 | 0.029 | 0.018 | 0.019 | 0.008 |
| **Robust CV % f** | 4 | 6 | 6 | 5 | 3 | 4 | 4 | 6 | 3 | 5 | 7 | 6 |
| **Outliers** | 4 | 2 | 4 | 5 | 4 | 5 | 6 | 3 | 4 | 4 | 4 | 7 |
| **Stragglers** | 3 | 1 | 0 | 0 | 3 | 2 | 5 | 1 | 4 | 0 | 0 | 1 |

## 2021: Total Zinc (mg/kg)

| Statistical parameters | Plant sample identification and values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *February 2021 (Round 2)* | | | | *May 2021 (Round 5)* | | | | *August 2021 (Round 8)* | | | |
| | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
| **No of results** | 37 | 37 | 37 | 37 | 31 | 28 | 31 | 31 | 36 | 36 | 36 | 36 |
| **Minimum** | 3.26 | 9.02 | 17.3 | 20.4 | 36 | 33 | 15 | 17.6 | 24 | 39.8 | 25 | 18 |
| **Maximum** | 76.1 | 28.9 | 48.8 | 52 | 47.5 | 47 | 30.8 | 24.4 | 45.4 | 62.7 | 44.8 | 29.4 |
| **Median i** | 37.2 | 12.9 | 23.7 | 28.1 | 43.9 | 41.5 | 18.8 | 21.3 | 28.9 | 46.1 | 29.5 | 21.4 |
| **Mean i** | 36.8 | 13.2 | 24 | 28.1 | 43.1 | 41.1 | 18.8 | 21 | 29.5 | 46.6 | 30.3 | 21.6 |
| **MAD i** | 1.4 | 0.5 | 0.8 | 1.6 | 1.7 | 1.95 | 1.1 | 1.3 | 1.85 | 1.85 | 1.65 | 1.15 |
| **IQR i** | 2.8 | 1 | 1.5 | 2.9 | 2.9 | 3.95 | 2.8 | 2.15 | 3.55 | 3.5 | 3.05 | 2.1 |
| **Robust CV % i** | 6 | 6 | 5 | 8 | 5 | 7 | 11 | 7 | 9 | 6 | 8 | 7 |
| **Median f** | 37.6 | 12.9 | 23.8 | 28.1 | 44 | 41.8 | 18.8 | 21.3 | 28.8 | 46.1 | 29.2 | 21.2 |
| **Mean f** | 37.6 | 12.9 | 23.8 | 28.2 | 43.8 | 41.9 | 18.6 | 21 | 28.6 | 46.1 | 29.2 | 21.1 |
| **MAD f** | 1 | 0.5 | 0.7 | 1.1 | 1.35 | 1.8 | 1.1 | 1.3 | 1.7 | 1.55 | 1.4 | 1 |
| **IQR f** | 2.23 | 0.85 | 1.25 | 1.95 | 2.93 | 3.4 | 2.8 | 2.15 | 3 | 3.05 | 2.7 | 1.9 |
| **Robust CV % f** | 4 | 5 | 4 | 5 | 5 | 6 | 11 | 7 | 8 | 5 | 7 | 7 |
| **Outliers** | 5 | 5 | 3 | 3 | 3 | 2 | 2 | 0 | 2 | 4 | 3 | 3 |
| **Stragglers** | 2 | 0 | 3 | 3 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 |

## 4. Comments on Measurement Performance

Full evaluation of measurement performance is beyond the scope of this report. These are typically made at ASPAC Workshops and in other national and international fora. However, a few observations are made here.

While influenced by analyte concentrations, an effective measure to evaluate improvement or otherwise in the ILPP performance of each test over time is to calculate and study the median of the 12 sample's coefficient of variations after the removal of "outliers" and "stragglers" for each test method, henceforth referred to as the grand median robust %CV. Figure 4.1 presents grand median robust %CVs for each test in program years 2019, 2020 and 2021. They ranged from the consistently best performing test in the ILPP, Carbon at 1%, to the consistently poorest performing test method, Nitrate-Nitrogen at 58%. Most tests indicate similar or improved interlaboratory precision in 2021 from the previous year, with Cobalt, Lead, Selenium and Silicon reversing the undesirable performance of 2020.

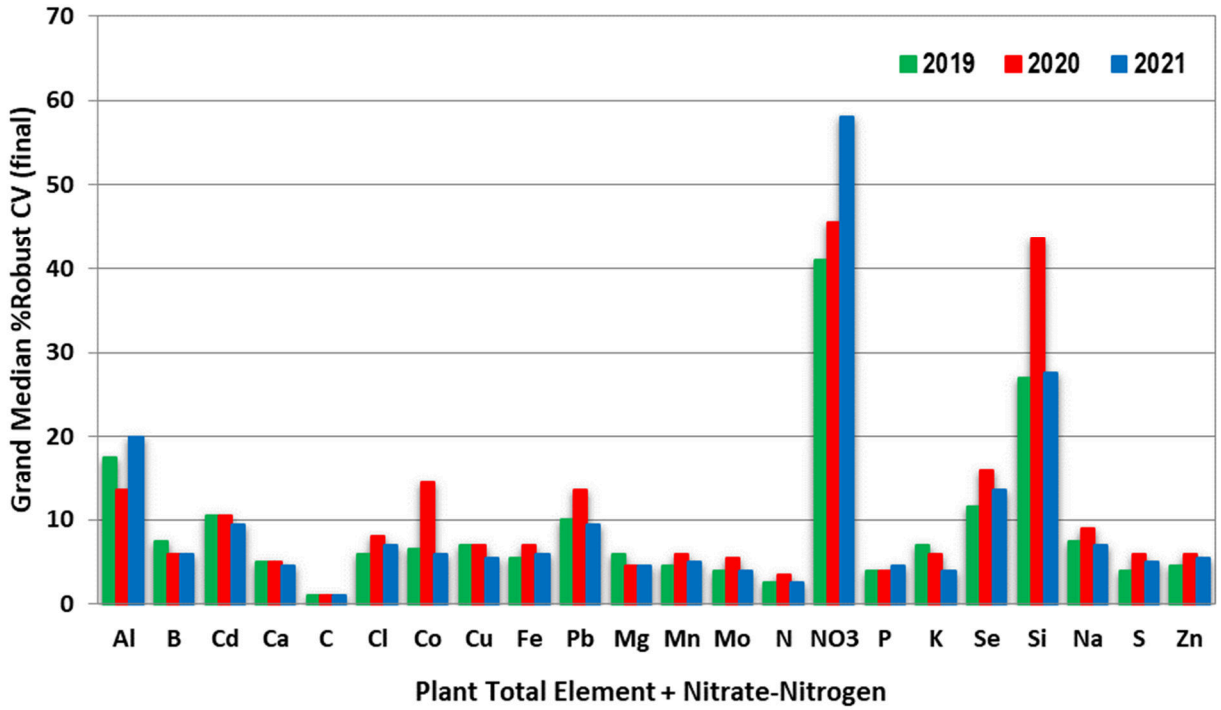


**Figure 4.1. Grand median robust %CVs (final) for plant program years 2019 to 2021, including plant Si which was not certified in either year.**

The notable precision issues for Nitrate Nitrogen in Figure 4.1 may be expected given the program usually presents at least half the samples with concentrations of this nutrient < 30mg/kg, well below the typical concentrations found in leaf petioles which are often a target sample type for this analyte. Using only the performance data of the 4 samples with concentrations of Nitrate-Nitrogen > 30mg/kg, we would calculate a median robust %CV of 8, representing reasonably good performance for this test.

Less than desirable, the "total" Silicon performance is also trending and likely to continue given the diversity of test methods known to be employed, especially by the number of laboratories that often under-recover this challenging to digest element if using an acid or acid/oxidant matrix alone without an alkaline solubilization step. A larger number of participants using a best practice and more robust methodology for this element like sodium fusion or XRF analysis would likely see performance improvement.

## Appendix 1: List of laboratories (including contact details at the time) who participated in ASPAC's Plant ILPP in 2021, arranged by country

| *Name (Position)* | *Facility* | *Street and / or Postal Address* | *Country* | *Email* |
|---|---|---|---|---|
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| Peter Keating (Managing Director) | Bioscience Pty Ltd | 488 Nicholson Rd, Forrestdale, Western Australia, Western Australia 6112 | AUSTRALIA | bioscience@biosciencewa.com |
| Chris Gendle (Chemist) | CSBP Ltd - Soil & Plant | 2 Altona Street, Bibra Lake, , Western Australia 6163 | AUSTRALIA | chris.gendle@csbp.com.au |
| Nell Peisley (DNA Sequencing Coordinator) | CSIRO Analytical Chemistry Group - Agriculture | Clunies Ross Street, Acton, ACT 2601 | AUSTRALIA | nell.peisley@csiro.au |
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| George Croatto (Senior Research Scientist) | DEDJTR Macleod Chemistry Laboratory | TER 4, Ernest Jones Drive, Macleod, Victoria 3085 | AUSTRALIA | George.Croatto@ecodev.vic.gov.au |
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| Subashini Munasinghe (Strategic Project and Technical Manager) | Dual Chelate Fertilizer Pty Ltd | 162 New Guinea Road, Robinvale, Victoria 3549 | AUSTRALIA | suba@dualchelate.com |
| Michael Smirk (Analytical Chemist) | Earth and Environment Analysis Laboratory (UWA) | 35 Stirling Highway, Crawley, Western Australia 6009 | AUSTRALIA | Michael.Smirk@uwa.edu.au |
| Stephanie Cameron (Operations Manager) | East West EnviroAg | 82 Plain Street, Tamworth, NSW 2340 | AUSTRALIA | Stephanie.c@eastwestonline.com.au |
| Graham Lancaster (Laboratory Manager) | Environmental Analysis Laboratory | University Store, Military Road, East Lismore, NSW 2480 | AUSTRALIA | Graham.Lancaster@scu.edu.au |
| James Stangoulis (Associate Professor) | Flinders University Plant Nutrition | Flinders University, Science and Engineering Store, Car Park 9, Physical Sciences Rd, Bedford Park, Adelaide, South Australia, South Australia 5042 | AUSTRALIA | james.stangoulis@flinders.edu.au |
| Stephen Finlayson | Inorganic Chemistry Laboratory | Forensic and Scientific Services, 39 Kessels Road, Coopers Plains, Queensland 4108 | AUSTRALIA | Stephen.Finlayson@health.qld.gov.au |
| Rabeya Akter (Senior Technical Officer) | Mark Wainwright Analytical Centre UNSW | Room B36 Chemical Science Building (F10), High Street, Kensington, NSW 2052 | AUSTRALIA | r.akter@unsw.edu.au |

| *Name (Position)* | *Facility* | *Street and / or Postal Address* | *Country* | *Email* |
|---|---|---|---|---|
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| Heidi du Clou | Sugar Research Australia | 51 Meiers Road, Indooroopilly, Queensland 4068 | AUSTRALIA | hduclou@sugarresearch.com.au |
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| Ngaire Foster (Laboratory Manager) | Landcare Research New Zealand Ltd | Environmental Chemistry Laboratory, Cnr Riddett Road and University Avenue, Massey University Campus, Palmerston North 4472 | NEW ZEALAND | fostern@landcareresearch.co.nz |
| Roger Cresswell (Analytical Services Manager) | Lincoln University Soil Science | C/- Central Stores, Farm Road, Lincoln 7647 | NEW ZEALAND | roger.cresswell@lincoln.ac.nz |
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| Michael Robertson | Veritec | Scion - Te Papa Tipu Innovation Park, 49 Sala Street, Whakarewarewa, Rotorua 3010 | NEW ZEALAND | Michael.Robertson@scionresearch.com |
| Rozleen Deo (Technical Officer) | Fiji Agricultural Chemistry Lab | Koronivia Research Station, Koronivia, Suva | FIJI | rozleen.deo@govnet.gov.fj |

| *Name (Position)* | *Facility* | *Street and / or Postal Address* | *Country* | *Email* |
|---|---|---|---|---|
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| Mauricio Calvo | Colaveco | Parque El Retiro, Catalina Hugo Y Brasil, Nueva Helvecia, Departmento De Colonia CP70362 | URUGUAY | colaveco@gmail.com |

## Appendix 2: Homogeneity data and statistical assessments* for Total Plant N% (Dumas N) on the 12 test plant samples in 2021.

| Sample name | | ASP 2102-1 | ASP 2102-2 | ASP 2102-3 | ASP 2102-4 | ASP 2105-1 | ASP 2105-2 | ASP 2105-3 | ASP 2105-4 | ASP 2108-1 | ASP 2108-2 | ASP 2108-3 | ASP 2108-4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Sub-sample** | | | | | | | | | | | | | |
| 1 | Rep 1 | 3.64 | 2.09 | 1.53 | 4.16 | 1.92 | 4.48 | 1.56 | 3.55 | 5.33 | 3.47 | 1.95 | 1.21 |
| | Rep 2 | 3.62 | 2.09 | 1.55 | 4.20 | 1.92 | 4.51 | 1.58 | 3.59 | 5.33 | 3.50 | 1.95 | 1.23 |
| 2 | Rep 1 | 3.64 | 2.11 | 1.54 | 4.16 | 1.91 | 4.49 | 1.55 | 3.58 | 5.34 | 3.45 | 1.94 | 1.21 |
| | Rep 2 | 3.62 | 2.11 | 1.55 | 4.14 | 1.90 | 4.50 | 1.57 | 3.58 | 5.36 | 3.45 | 1.95 | 1.23 |
| 3 | Rep 1 | 3.65 | 2.09 | 1.54 | 4.16 | 1.92 | 4.50 | 1.56 | 3.57 | 5.36 | 3.45 | 1.94 | 1.23 |
| | Rep 2 | 3.60 | 2.09 | 1.55 | 4.15 | 1.92 | 4.50 | 1.56 | 3.58 | 5.35 | 3.43 | 1.94 | 1.22 |
| 4 | Rep 1 | 3.64 | 2.11 | 1.55 | 4.16 | 1.92 | 4.47 | 1.54 | 3.56 | 5.39 | 3.46 | 1.95 | 1.23 |
| | Rep 2 | 3.60 | 2.10 | 1.55 | 4.12 | 1.90 | 4.48 | 1.55 | 3.57 | 5.38 | 3.46 | 1.95 | 1.22 |
| 5 | Rep 1 | 3.63 | 2.11 | 1.54 | 4.19 | 1.92 | 4.50 | 1.55 | 3.56 | 5.37 | 3.47 | 1.94 | 1.24 |
| | Rep 2 | 3.61 | 2.11 | 1.54 | 4.14 | 1.91 | 4.49 | 1.55 | 3.57 | 5.37 | 3.45 | 1.95 | 1.24 |
| 6 | Rep 1 | 3.64 | 2.11 | 1.55 | 4.15 | 1.92 | 4.49 | 1.54 | 3.57 | 5.39 | 3.48 | 1.94 | 1.23 |
| | Rep 2 | 3.63 | 2.11 | 1.55 | 4.15 | 1.91 | 4.50 | 1.54 | 3.56 | 5.39 | 3.46 | 1.95 | 1.22 |
| 7 | Rep 1 | 3.66 | 2.11 | 1.55 | 4.16 | 1.91 | 4.49 | 1.55 | 3.56 | 5.36 | 3.43 | 1.94 | 1.23 |
| | Rep 2 | 3.63 | 2.11 | 1.55 | 4.17 | 1.92 | 4.51 | 1.56 | 3.57 | 5.35 | 3.46 | 1.94 | 1.22 |
| 8 | Rep 1 | 3.63 | 2.12 | 1.54 | 4.17 | 1.91 | 4.48 | 1.54 | 3.56 | 5.36 | 3.41 | 1.93 | 1.23 |
| | Rep 2 | 3.63 | 2.11 | 1.55 | 4.16 | 1.91 | 4.48 | 1.54 | 3.57 | 5.37 | 3.43 | 1.94 | 1.25 |
| 9 | Rep 1 | 3.65 | 2.11 | 1.55 | 4.19 | 1.91 | 4.47 | 1.54 | 3.56 | 5.38 | 3.46 | 1.94 | 1.24 |
| | Rep 2 | 3.62 | 2.11 | 1.54 | 4.14 | 1.91 | 4.50 | 1.55 | 3.56 | 5.37 | 3.46 | 1.93 | 1.23 |
| 10 | Rep 1 | 3.63 | 2.11 | 1.55 | 4.15 | 1.91 | 4.50 | 1.55 | 3.56 | 5.34 | 3.47 | 1.94 | 1.25 |
| | Rep 2 | 3.62 | 2.11 | 1.57 | 4.11 | 1.91 | 4.50 | 1.55 | 3.56 | 5.35 | 3.43 | 1.94 | 1.26 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Mean** | 3.63 | 2.11 | 1.55 | 4.16 | 1.91 | 4.49 | 1.55 | 3.57 | 5.36 | 3.45 | 1.94 | 1.23 |
| **Analytical SD** | 0.0003 | 0.00001 | 0.0001 | 0.0006 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.00004 | 0.0002 | 0.00002 | 0.0001 |
| **Sampling SD** | 0 | 0.0001 | 0 | 0 | 0 | 0.00001 | 0.0001 | 0 | 0.0004 | 0.0002 | 0.00003 | 0.0001 |
| **SD proficiency data** | 0.06 | 0.05 | 0.06 | 0.114 | 0.042 | 0.118 | 0.05 | 0.114 | 0.117 | 0.06 | 0.036 | 0.049 |
| **Status** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **H** | **H** |

* Homogeneity statistics calculated according to: Thompson, M., Ellison, S.L.R. and Wood, R. (2006). "The International Harmonised Protocol for the Proficiency Testing of Analytical Chemistry Laboratories." *Pure Appl. Chem.***78**(1): 145-196. IUPAC Tech. Report.

## Appendix 3: Statistical procedures used by ASPAC for its contemporary plant ILPP

Refer to Table 3 for a description of most statistical terms and their meaning. Of most significance is the "median / MAD" non-parametric, iterative procedure for identifying "outliers" (††) and "stragglers" (†) within datasets for particular tests and samples from multiple (typically 7 or greater) laboratories. See references in the body of the report for more details. Also, the median (μ) is regarded as a good estimate of the true mean, while the MAD; i.e., the median of the absolute deviations from the median, @), is regarded as a good estimate of the standard deviation.

After tabulating the data with a separate column for each sample result and a separate row for each laboratory, calculations were applied iteratively. Each iteration operated at an action level of [(X- μ)/f@] (called the "ASPAC Score" for convenience)>2, where "X" is the value reported by the laboratory (one replicate assumed), "μ" is the median of the population of values, and "f@" is a code for the Gaussian distribution of the sample size "n", approximated by [0.7722 + 1.604/n * t, with t = the Student's "t" for 5% (two-tailed) with n-1 degrees of freedom]. Excluding any case when a laboratory reported no result (or a non-numeric value) [these were automatically excluded], the laboratories at first iteration with an "ASPAC score" >2 were rated as "outliers" (††). Following their removal (if any), the remaining population of laboratory data were subject to a second iteration involving a recalculation of the "ASPAC score". When again >2, the relevant laboratories were rated as "stragglers" (†).

The other statistics summarized in Table 3 were calculated on the same populations of data. Only the first (i) and second (final; f) values appear in the data summaries in Section 3.

## Appendix 4: Plant analytical method codes and raw program data for the 12 plant samples across three rounds in 2021.

The following tabulations of raw plant analytical data, as reported by participating laboratories, are listed in approximate alphabetical order by element after removal of unnecessary precision, this following completion of statistical tests. Precision adjustments were performed only to assist raw data presentation. Statistical “outliers” and “stragglers” are indicated by †† and †, respectively. All results are understood to be on an oven dry basis. Method Codes listed in the “raw data” tabulations are described in Tables 5 and 6.

**Table 5. ASPAC method indicating codes (MIC) for the preparation, extraction and/or digestion techniques used for each plant test reported in this ILPP. A separate code (see Table 6) is required to identify the relevant instrumental or analytical finishes.**

| Preparation / Extraction / Digestion Technique | ASPAC MIC Code |
|---|---|
| Dry Ashing with HF, and uptake in HCl | AA |
| Dry Ashing with HF, and uptake in $HNO_3$ | AB |
| Dry Ashing with HF, and uptake in $H_2SO_4$ | AC |
| Dry Ashing without HF, and uptake in HCl | AD |
| Dry Ashing without HF, and uptake in $HNO_3$ | AE |
| Dry Ashing without HF, and uptake in $H_2SO_4$ | AF |
| Extraction with acid(s) | BA |
| Extraction with water | BB |
| Finely-divided dry sample | CA |
| Microwave digestion - closed system with HF, and final medium $H_2SO_4$ | DA |
| Microwave digestion - closed system with HF, and final medium $HNO_3$ and/or HCl | DB |
| Microwave digestion - closed system with HF, and final medium $HClO_4$ | DC |
| Microwave digestion - closed system without HF, and final medium $H_2SO_4$ | DD |
| Microwave digestion - closed system without HF, and final medium $HNO_3$ and/or HCl | DE |
| Microwave digestion - closed system without HF, and final medium HClO4 | DF |
| Microwave digestion - open system with HF, and final medium $H_2SO_4$ | DG |
| Microwave digestion - open system with HF, and final medium $HNO_3$ and/or HCl | DH |
| Microwave digestion in open system with HF, and final medium $HClO_4$ | DI |
| Microwave digestion - open system with HF, and final medium $HNO_3$ / peroxide | DJ |
| Microwave digestion - open system without HF, and final medium $H_2SO_4$ | DK |
| Microwave digestion - open system without HF, and final medium $HNO_3$ and /or HCl | DL |
| Microwave digestion - open system without HF, and final medium $HClO_4$ | DM |
| Microwave digestion - open system without HF,and final medium $HNO_3$ / peroxide | DN |
| Pellet (fused) | EA |
| Pellet (pressed powder) | EB |
| Schoeniger combustion with Pt and $O_2$, with uptake in HCl | FA |
| Schoeniger combustion with Pt and $O_2$, with uptake in $HNO_3$ | FB |
| Wet digestion - open system with HF, and final medium $H_2SO_4$ | GA |
| Wet digestion - open system with HF, and final medium $HNO_3$ and /or HCl | GB |
| Wet digestion - open system with HF, and final medium $HClO_4$ | GC |
| Wet digestion - open system with HF, and final medium $HNO_3$ / peroxide | GD |
| Wet digestion - open system without HF, and final medium $H_2SO_4$ (includes Kjeldahl – not quantitative for $NO_3$) | GE |
| Wet digestion - open system without HF, and final medium $H_2SO_4$ (includes Kjeldahl – quantitative for $NO_3$) | GF |
| Wet digestion - open system without HF, and final medium $HNO_3$ and /or HCl | GG |
| Wet digestion - open system without HF, and final medium $HClO_4$ | GH |
| Wet digestion - open system without HF,and final medium $HNO_3$ / peroxide | GI |
| Wet digestion - open system without HF —diacid ($HNO_3$,$HClO_4$) | GJ |
| Wet digestion - open system without HF — triacid ($HNO_3$,$H_2SO_4$, $HClO_4$) | GK |
| Others | ZZ |

**Table 6. ASPAC's method indicating codes for instrumental or analytical finishes (IA-MIC) for the instrumental or analytical finishes associated with each plant test reported in this ILPP. A separate code (see Table 5) is used to identify the relevant preparation, extraction or digestion technique.**

| Instrumental and/or analytical finish | ASPAC IA-MIC Code |
|---|---|
| AAS-ETA: [Atomic Absorption Spectrophotometry Electro-Thermal Atomisation] background correction, without chemical modifier | 01 |
| AAS-ETA with deuterium background correction, without chemical modifier | 02 |
| AAS-ETA with Zeeman background correction, without chemical modifier | 03 |
| AAS-ETA with pulsed hollow cathode lamp background correction, without chemical modifier | 04 |
| AAS-ETA without background correction, with chemical modifier | 05 |
| AAS-ETA with deuterium background correction, with chemical modifier | 06 |
| AAS-ETA with Zeeman background correction, with chemical modifier | 07 |
| AAS-ETA with pulsed hollow cathode lamp background correction, with chemical modifier | 08 |
| AAS-Flame, without background correction, using air-acetylene | 09 |
| ASS – carbon rod –graphite furnace | 10 |
| AAS-Flame with deuterium background correction, using air-acetylene | 11 |
| AAS-Flame with Zeeman background correction, using air-acetylene | 12 |
| AAS-Flame with pulsed hollow cathode lamp background correction, using air-acetylene | 13 |
| AAS-Flame without background correction, using $N_2O$-acetylene | 14 |
| AAS-Flame with deuterium background correction, using $N_2O$-acetylene | 15 |
| AAS-Flame with Zeeman background correction, using $N_2O$-acetylene | 16 |
| AAS-Flame with pulsed hollow cathode lamp background correction, using $N_2O$-acetylene | 17 |
| Chromatography | 18 |
| Cold vapour technology | 19 |
| Flame emission | 20 |
| Gravimetric | 21 |
| Hydride technology and similar | 22 |
| ICP-AES | 23 |
| ICP-MS | 24 |
| Infrared — near-range (NIR) | 25 |
| Infrared — mid-range (MIR) | 26 |
| Ion selective electrode | 27 |
| Ion chromatography | 28 |
| Neutron activation analysis | 29 |
| Spectrophotometry (manual) | 30 |
| Spectrophotometry (auto; segmented flow, FIA, DA, etc.) | 31 |
| Titrimetric | 32 |
| Turbidimetric / or Nephelometric | 33 |
| Voltammetry (direct) | 34 |
| Voltammetry (stripping) | 35 |
| X-ray fluorescence | 36 |
| Dumas (e.g.,Leco) | 37 |
| Others (specify) | 38 |

## Appendix 5: "Raw" 2021 plant data reported by laboratories for 12 samples across three "rounds"

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Aluminum (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 168 | | 63.2 | | 445 | | 4.13 | | 493 | | 17.3 | | 2.99 | | 1.11 | | 40.5 | | 112 | | 355 | | 2.74 | |
| 8888 | DE-23 | 125 | | 52.2 | | 446 | | | | 544 | | 20.7 | | 8.88 | †† | | | 38.2 | | 111 | | 328 | | | |
| 10156 | GI-23 | 109 | | 47.3 | | 392 | | 2.57 | | | | | | | | | | 32.5 | | 101 | | 293 | | 1.65 | |
| 10173 | DN-24 | 174 | † | 53.5 | | 447 | | 1.33 | | | | | | | | | | 43.6 | | 108 | | 341 | | 1.96 | |
| 11079 | DE-23 | 152 | | 61.5 | | 431 | | 5.87 | | | | | | | | | | 48.3 | | 114 | | 350 | | 3.25 | |
| 20204 | GJ-23 | 146 | | 83.8 | †† | 427 | | 11.9 | †† | 469 | | 34 | †† | 0.5 | †† | 19.4 | †† | 43.1 | | 56.9 | | 298 | | 2 | |
| 21043 | GJ-23 | 99.1 | | 41.4 | | 388 | | 5.9 | | 368 | | 14.7 | | 4.2 | | 1.36 | | 29.7 | | 93 | | 306 | | 1.9 | |
| 21088 | DE-23 | 133 | | 50 | | 385 | | 8.8 | †† | 409 | | 16.7 | | 5.3 | | 5.6 | †† | 46.2 | | 94 | | 292 | | 5 | †† |
| 21100 | DE-24 | 84.4 | | 31.3 | | 326 | †† | 4.35 | | 229 | | 20.8 | | 3.29 | | 1.71 | | 23.8 | | 85.9 | | 154 | †† | 1.03 | |
| 21229 | GI-23 | 114 | | 38 | | 413 | | 3.66 | | 258 | | 16.4 | | 3.59 | | 3.13 | | 40.5 | | 96.2 | | 298 | | 23.7 | †† |
| 21230 | DE-23 | 98.7 | | 41.5 | | 352 | | | | 286 | | 14.1 | | 2 | | 0.75 | | 42.5 | | 92 | | 304 | | 1.3 | |
| 21232 | DE-23 | 143 | | 52.2 | | 420 | | 7 | †† | 492 | | 22.8 | | 4.17 | | 2.9 | | 44.6 | | 113 | | 349 | | 3.38 | |
| 50004 | DE-23 | 264 | †† | 90.2 | †† | 630 | †† | 5.74 | | 268 | | 18.6 | | 3.63 | | 1.89 | | 55.7 | | 107 | | 326 | | 1.57 | |
| 50005 | DE-23 | 123 | | 57.3 | | 409 | | 3.37 | | 337 | | 19.3 | | 3.79 | | 2.16 | | 42.9 | | 92.3 | | 314 | | 2.8 | |
| 50011 | DE-23 | 106 | | 44.1 | | 443 | | 6.63 | † | 349 | | 20.3 | | 5.37 | | 3.26 | | 36.2 | | 111 | | 342 | | 3.1 | |
| 50012 | DN-23 | 141 | | 55.3 | | 449 | | 13.8 | †† | 423 | | 20.5 | | 6.06 | | 2.38 | | 45.6 | | 113 | | 332 | | 4.29 | † |
| 50014 | DE-23 | 134 | | 70 | †† | 420 | | 2.63 | | 241 | | 14.1 | | 0.466 | †† | 1 | | 75.7 | †† | 92.3 | | 309 | | 2.23 | |
| 50017 | DE-23 | 110 | | 47.1 | | 389 | | 4.45 | | 381 | | 21.4 | | 4.55 | | 2.38 | | 45.1 | | 101 | | 307 | | 2.71 | |
| 50018 | DE-23 | 114 | | 46.4 | | 408 | | 3.91 | | 332 | | 17.1 | | 2.98 | | 2.02 | | 32.2 | | 96.1 | | 285 | | 1.68 | |
| 50020 | GI-23 | 76.8 | | 15.2 | †† | 352 | | | | 177 | | 14.2 | | | | 11 | †† | 60.9 | | 69.5 | | 240 | † | | |
| 50024 | GJ-23 | 123 | | 54.4 | | 425 | | 4.5 | | 372 | | 16.5 | | 3.66 | | 2.1 | | 50.3 | | 80.6 | | 312 | | 0.86 | |
| 50027 | DN-24 | 119 | | 48.3 | | 395 | | 3.1 | | 361 | | 17.2 | | 3.8 | | 2.17 | | 36.9 | | 106 | | 320 | | 1 | |
| 50029 | AD-23 | 127 | | 47.2 | | 382 | | 3.6 | | 389 | | 15.3 | | 9.57 | †† | 2.33 | | 37.6 | | 77.5 | | 308 | | 1.99 | |
| 50037 | DE-23 | 115 | | 46.6 | | 410 | | 3.93 | | 331 | | 17.1 | | 2.97 | | 2.01 | | 32.6 | | 95.8 | | 287 | | 1.67 | |
| 52283 | GJ-23 | 125 | | 48.3 | | 419 | | 3.67 | | 338 | | 28.4 | †† | 6.35 | † | 11.7 | †† | 49.1 | | 94.6 | | 285 | | 15.4 | †† |
| 52491 | GI-23 | 77.6 | | 21.9 | †† | 348 | | 2.91 | | 165 | | | | 3.89 | | 1.75 | | 46.3 | | 81.8 | | 212 | †† | 4.85 | †† |
| 52495 | GI-24 | 84.2 | | 27.7 | | 370 | | 3.32 | | 185 | | 12 | | 3.28 | | 1.52 | | 30.7 | | 79.8 | | 227 | †† | 1.63 | |
| 52565 | DN-23 | 105 | | 45 | | 385 | | 3.1 | | 381 | | | | 3.1 | | 1.1 | | 37 | | 93 | | 240 | † | 1.5 | |
| 52610 | DE-24 | 91 | | 32 | | 365 | | 1.4 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 66.5 | | 41.1 | | 331 | | 3.31 | | 378 | | 15.3 | | 5.33 | | 4.66 | † | 12.4 | †† | 88.2 | | 301 | | 4.09 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Boron (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 52.9 | | 70.4 | | 12.9 | | 10.5 | | 75.1 | | 8.24 | | 0.68 | | 6.65 | | 43.9 | | 7.69 | | 23.8 | | 0.615 | |
| 8888 | DE-23 | 51.9 | | 68.4 | | 12.8 | | 10.1 | | 74.9 | | 8.16 | | 1.03 | | 6.81 | | 40 | | 6.93 | | 22.1 | | | |
| 10156 | GI-23 | 33.5 | †† | 44 | †† | 7.83 | †† | 6.18 | †† | | | | | | | | | 44.9 | | 7.3 | | 23 | | 0.567 | |
| 10173 | DN-24 | 44.1 | †† | 58.8 | †† | 13.5 | | 11.3 | | 70.1 | | 7.92 | | 0.956 | | 6.1 | | 38.9 | | 6.9 | | 21.3 | | 0.767 | |
| 11079 | DE-23 | 50.1 | | 67.3 | | 12.4 | | 10.2 | | | | | | | | | | 52.1 | † | 8.59 | | 26.8 | | 0.69 | |
| 20204 | GJ-23 | 51.6 | | 67.1 | | 12.2 | | 10.1 | | 68 | | 7 | | 1.82 | | 5.84 | | 34.8 | † | 7.61 | | 21.4 | | 4.64 | †† |
| 21043 | GJ-23 | 53.1 | | 71.3 | | 16.9 | †† | 14.2 | †† | 64.5 | | 9.91 | | 4.3 | †† | 8.03 | | 45.2 | | 12.6 | †† | 27.2 | | 7.78 | †† |
| 21088 | DE-23 | 47 | † | 58 | †† | 13 | | 12 | † | 62 | † | 9 | | 2.1 | | 9 | †† | 42 | | 7 | | 21 | | 0.1 | |
| 21100 | DE-24 | 52.9 | | 72 | | 12.9 | | 11.3 | | 73.9 | | 10.8 | †† | 3.5 | †† | 10.3 | †† | 46 | | 10.4 | †† | 24.4 | | 2.87 | †† |
| 21178 | DE-23 | 55.2 | | 68.2 | | 12.1 | | 10.9 | | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 52.5 | | 67.7 | | 13.2 | | 10.3 | | 77 | | 9.07 | | 2.21 | † | 7.23 | | 44.4 | | 7.96 | | 25.6 | | 0.986 | |
| 21230 | DE-23 | 35.6 | †† | 46.3 | †† | 8.13 | †† | 6.69 | †† | 55.9 | †† | 5.8 | †† | 0.3 | | 4.63 | †† | 37.2 | † | 5.83 | † | 20 | | 0.1 | |
| 21232 | DE-23 | 50.4 | | 65.4 | | 12 | | 9.48 | | 70.8 | | 7.98 | | 0.671 | | 6.34 | | 41.7 | | 6.92 | | 22.4 | | 0.247 | |
| 50004 | DE-23 | 54.1 | | 69.5 | | 12.8 | | 10.1 | | 78.1 | | 8.33 | | 0.792 | | 6.77 | | 44.9 | | 7.2 | | 22.6 | | 0.75 | |
| 50005 | DE-23 | 51.9 | | 67.8 | | 13.3 | | 10.3 | | 69.9 | | 9.43 | | 0.394 | | 6.84 | | 39.4 | | 7.99 | | 21.6 | | 1.14 | |
| 50008 | AD-23 | 49.6 | | 68 | | 12.5 | | 10.3 | | 73.8 | | 8.16 | | 0.994 | | 4.3 | †† | 22.8 | †† | 6.89 | | 22.5 | | 0.868 | |
| 50011 | DE-23 | 51 | | 67.7 | | 13.2 | | 10.6 | | 75.7 | | 8.29 | | 1.06 | | 6.73 | | 42.2 | | 7.81 | | 24.8 | | 0.945 | |
| 50012 | DN-23 | 57.6 | † | 74.4 | † | 13 | | 10.9 | | 81 | | 9.28 | | 0.835 | | 7.39 | | 51.4 | † | 10.3 | †† | 28 | | 2.91 | †† |
| 50014 | DE-23 | 54.4 | | 70.5 | | 11.1 | † | 8.87 | † | 78.2 | | 9.1 | | 1.27 | | 7.33 | | 46.1 | | 8.03 | | 24.8 | | 1.2 | |
| 50017 | DE-23 | 52.3 | | 67.8 | | 13.6 | | 10.6 | | 62.3 | † | 7.1 | | 2.23 | † | 5.79 | | 30.8 | †† | 7.21 | | 1.62 | †† | 0.101 | |
| 50018 | DE-23 | 52.4 | | 67.4 | | 13.5 | | 10.4 | | 72.4 | | 9.12 | | 1.7 | | 7.08 | | 43.1 | | 8.04 | | 23.3 | | 0.417 | |
| 50020 | GI-23 | 53.4 | | 70 | | 12.8 | | 10 | | 75.1 | | 8.62 | | | | 6.74 | | 49.4 | | 8.08 | | 26.9 | | | |
| 50024 | DE-23 | 49.6 | | 67.7 | | 15.7 | †† | 10.9 | | 72.3 | | 8.05 | | 0.57 | | 6.11 | | 44.4 | | 7.96 | | 24.5 | | 0.546 | |
| 50025 | GJ-23 | 54.1 | | 60.4 | † | 18.3 | †† | 16.5 | †† | 71.6 | | 20.5 | †† | 13.4 | †† | 18.3 | †† | 49.1 | | 18.9 | †† | 32.7 | †† | 12.8 | †† |
| 50027 | DN-24 | 51.6 | | 70.7 | | 12.2 | | 10.4 | | 72.6 | | 8.3 | | 0.6 | | 6.3 | | 43 | | 7.63 | | 24.3 | | 0.68 | |
| 50029 | AD-23 | 53.4 | | 72.6 | | 12.8 | | 11.1 | | 76 | | 9.9 | | 0.616 | | 5.39 | | 47.5 | | 8.87 | | 25.8 | | 1.14 | |
| 50032 | DE-30 | | | | | | | | | | | | | | | | | 19.8 | †† | 8.8 | | 17.7 | | 1.15 | |
| 50037 | DE-23 | 52.3 | | 67.2 | | 13.4 | | 10.2 | | 72.5 | | 9.1 | | 1.68 | | 7.1 | | 42.8 | | 8.03 | | 23.3 | | 0.421 | |
| 52283 | GJ-23 | 54.3 | | 66.5 | | 12.6 | | 9.73 | | 97.8 | †† | 15.5 | †† | 5.36 | †† | 6.39 | | 35.6 | † | 8.25 | | 29.6 | | 1.37 | |
| 52491 | GI-23 | 58.3 | † | 78 | †† | 13.9 | | 10.6 | | 77.4 | | | | 0.895 | | 6.4 | | 44.6 | | 7.7 | | 25.6 | | 0.525 | |
| 52494 | GG-23 | 50.1 | | 65.4 | | 12.1 | | 9.79 | | 68.1 | | | | 1.1 | | 6.99 | | 42.3 | | 7.69 | | 22.2 | | 1.5 | |
| 52495 | GI-24 | 54.2 | | 74.4 | † | 13.3 | | 10.8 | | 73.7 | | 8.61 | | 0.893 | | 6.66 | | 48.1 | | 8.63 | | 26.1 | | 1.04 | |
| 52565 | DN-23 | 42 | †† | 55 | †† | 10 | †† | 8.5 | †† | 65 | | | | 1.22 | | 5.6 | | 44 | | 9 | | 20 | | 1 | |
| 52636 | DE-23 | 53 | | 62.2 | | 10.4 | †† | 7.7 | †† | 64.5 | | 3.25 | †† | 2.05 | | 1.39 | †† | 9.71 | †† | 7.8 | | 5.63 | †† | 0.573 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Cadmium (µg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-24 | 456 | | 2.26 | | 156 | | 7.8 | | 7.59 | | 3.49 | | 31.8 | | 20.2 | | 7.73 | | 264 | | 7.44 | | 16.2 | |
| 10156 | GI-23 | 349 | | 0.719 | | 124 | | 0.586 | †† | | | | | | | | | 29 | | 283 | | 20 | †† | 24 | †† |
| 10173 | DN-24 | 390 | | 5 | †† | 149 | | 6.48 | | | | | | | | | | | | 270 | | 7.04 | | 17.4 | |
| 11079 | DE-23 | 343 | | | | 140 | | | | | | | | | | | | 12.4 | | 307 | †† | 7.9 | | 33 | †† |
| 20204 | GJ-23 | 390 | | 2.7 | | 142 | | 11.1 | | 7.1 | | 9.8 | †† | 9.6 | †† | 20.1 | | 1.2 | | 228 | | 17 | †† | 6.5 | †† |
| 21088 | DE-23 | 400 | | 20 | †† | 150 | | 20 | †† | 10 | | 20 | †† | 30 | | 20 | | 10 | | 230 | | 30 | †† | 30 | †† |
| 21100 | DE-24 | 457 | | 2.38 | | 172 | | 11.7 | | 0.776 | †† | 3.68 | | 30.7 | | 19 | | 8.39 | | 267 | | 6.48 | | 16.8 | |
| 21178 | DE-24 | 385 | | 2.03 | | 135 | | 7.97 | | | | | | | | | | | | | | | | | |
| 21229 | GI-24 | 408 | | 1.19 | | 144 | | 8.71 | | 5.26 | | 2.38 | | 24.8 | | 15.4 | | 10.9 | | 225 | | 5.69 | | 13.9 | |
| 21230 | DE-24 | 456 | | 3.4 | | 169 | | 13.3 | †† | 12.3 | †† | 18.8 | †† | 28.8 | | 26.2 | | 51.3 | †† | 239 | | 7.84 | | 18.9 | |
| 50004 | DE-24 | 235 | †† | 3 | | 86.1 | †† | 5.46 | | 6.9 | | 5.57 | | 30.4 | | 18.7 | | 22.1 | | 230 | | 7.37 | | 15.4 | |
| 50005 | DE-24 | 399 | | 2.25 | | 138 | | 7.76 | | 6.17 | | 7.32 | †† | 23.2 | †† | 14.7 | | 20.1 | | 255 | | 22.2 | †† | 30 | †† |
| 50011 | DE-24 | 368 | | 2.6 | | 141 | | 7.36 | | 5.79 | | 2.76 | | 29.2 | | 17.2 | | 11.2 | | 259 | | 8.41 | | 16.5 | |
| 50012 | DN-24 | 407 | | 1 | | 142 | | 9 | | 5 | | 6 | | 32 | | 28 | †† | 21 | | 258 | | 9 | | 21 | |
| 50014 | DE-24 | 406 | | 4.3 | †† | 151 | | 10.1 | | 4.1 | | 3.45 | | 32.7 | | 22 | | 16.1 | | 262 | | 8.51 | | 19 | |
| 50018 | DE-24 | 407 | | 2.28 | | 147 | | 7.42 | | 7.03 | | 3.61 | | 33.3 | | 21.9 | | 6.12 | | 251 | | 3.21 | †† | 18.1 | |
| 50020 | GI-23 | 606 | †† | 247 | †† | 361 | †† | 243 | †† | 100 | †† | | | | | | | 381 | †† | 443 | †† | 232 | †† | | |
| 50024 | GJ-24 | 482 | | 2.7 | | 167 | | 8.9 | | 6.8 | | 5.7 | | 29.3 | | 19.2 | | 17.6 | | 263 | | 7.8 | | 18.5 | |
| 50027 | DN-24 | 407 | | 2 | | 143 | | 6.6 | | 4.9 | | 0.5 | | 29 | | 14.4 | | 1 | | 241 | | 8 | | 18 | |
| 50037 | DE-24 | 405 | | 2.23 | | 146 | | 7.4 | | 7.04 | | 3.63 | | 33.2 | | 21.8 | | 6.1 | | 250 | | 3.23 | †† | 18.2 | |
| 52491 | GI-24 | 417 | | 3.22 | | 150 | | 13.8 | †† | | | | | | | | | 190 | †† | 231 | | 12.4 | †† | 21.5 | |
| 52495 | GI-24 | 434 | | 3.24 | | 156 | | 9.66 | | 4.99 | | 3.55 | | 28.7 | | 18.9 | | 10.9 | | 266 | | 8.46 | | 19.8 | |
| 52565 | DN-24 | 200 | †† | 1.5 | | 50 | †† | 1.5 | †† | 8 | | | | 27 | | 20 | | 28.8 | | 210 | †† | 3 | †† | 13 | †† |
| 52610 | DE-24 | 385 | | | | 130 | | 6.6 | | | | | | | | | | | | | | | | | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Calcium (%w/w) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | | | |
| | | **ASP 2102-1** | | **ASP 2102-2** | | **ASP 2102-3** | | **ASP 2102-4** | | **ASP 2105-1** | | **ASP 2105-2** | | **ASP 2105-3** | | **ASP 2105-4** | | **ASP 2108-1** | | **ASP 2108-2** | | **ASP 2108-3** | | **ASP 2108-4** | |
| 22 | DE-23 | 2.28 | | 2.59 | | 0.638 | | 0.102 | | 0.397 | | 0.058 | | 0.007 | | 0.037 | | 4.86 | | 0.078 | | 2.02 | | 0.01 | |
| 8888 | DE-23 | 2.33 | | 2.6 | | 0.643 | | 0.096 | | 0.407 | | 0.056 | | 0.008 | | 0.039 | | 4.56 | | 0.08 | | 1.92 | | 0.011 | |
| 10156 | GI-23 | 1.95 | † | 2.13 | †† | 0.544 | †† | 0.086 | † | | | | | | | | | 4.34 | | 0.0778 | | 1.8 | | 0.00988 | |
| 10173 | DN-24 | 2.13 | | 2.43 | | 0.606 | | 0.097 | | 0.389 | | 0.055 | | 0.007 | | 0.037 | | 4.65 | | 0.091 | | 1.96 | | 0.008 | |
| 10181 | GF-23 | 2.53 | † | 2.68 | | 0.644 | | 0.105 | | 0.424 | | 0.063 | | 0.00806 | | 0.0425 | † | | | | | | | | |
| 11079 | DE-23 | 2.28 | | 2.67 | | 0.7 | | 0.119 | †† | | | | | | | | | 5.29 | | 0.096 | † | 2.22 | † | 0.014 | †† |
| 20204 | GJ-23 | 2.32 | | 2.57 | | 0.656 | | 0.085 | †† | 0.44 | †† | 0.128 | †† | 0.09 | †† | 0.104 | †† | 4.18 | | 0.0897 | | 1.94 | | 0.0106 | |
| 21043 | GJ-23 | 1.97 | | 2.42 | | 0.595 | | 0.104 | | 0.373 | † | 0.05 | †† | 0.004 | †† | 0.032 | †† | 4.47 | | 0.0844 | | 1.88 | | 0.0079 | |
| 21088 | DE-23 | 1.98 | | 2.15 | †† | 0.556 | † | 0.098 | | 0.362 | †† | 0.048 | †† | 0.0077 | | 0.0434 | †† | 4.43 | | 0.0738 | | 1.71 | † | 0.0101 | |
| 21100 | DE-24 | 2.07 | | 2.23 | † | 0.575 | | 0.099 | | 0.427 | | 0.070 | †† | 0.00872 | | 0.0449 | †† | 4.93 | | 0.0868 | | 2 | | 0.0105 | |
| 21178 | DE-23 | 2.28 | | 2.52 | | 0.607 | | 0.092 | | | | | | | | | | | | | | | | | |
| 21190 | AD-09 | 2.27 | | 2.52 | | 0.663 | | 0.11 | † | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 2.26 | | 2.46 | | 0.635 | | 0.097 | | 0.408 | | 0.058 | | 0.00725 | | 0.0381 | | 4.61 | | 0.0838 | | 2.08 | | 0.00874 | |
| 21230 | DE-23 | 1.92 | †† | 1.71 | †† | 0.426 | †† | 0.054 | †† | 0.302 | †† | 0.043 | †† | 0.0049 | †† | 0.0269 | †† | 3.13 | †† | 0.0563 | †† | 1.23 | †† | 0.00504 | †† |
| 21232 | DE-23 | 2.12 | | 2.35 | | 0.583 | | 0.091 | | 0.393 | | 0.058 | | 0.0075 | | 0.0387 | | 4.24 | | 0.0833 | | 1.89 | | 0.011 | |
| 21234 | GH-09 | 4.11 | †† | 4.84 | †† | 1.12 | †† | 0.161 | †† | | | | | | | | | 5.93 | †† | 0.124 | †† | 2.61 | †† | 0.02 | †† |
| 50004 | DE-23 | 2.19 | | 2.4 | | 0.62 | | 0.097 | | 0.409 | | 0.057 | | 0.011 | †† | 0.038 | | 4.56 | | 0.08 | | 1.89 | | 0.009 | |
| 50005 | DE-23 | 2.27 | | 2.48 | | 0.641 | | 0.096 | | 0.403 | | 0.056 | | 0.0101 | † | 0.0433 | †† | 4.67 | | 0.0809 | | 2.01 | | 0.0346 | †† |
| 50008 | GJ-23 | 2.25 | | 2.51 | | 0.622 | | 0.096 | | 0.394 | | 0.056 | | 0.007 | | 0.037 | | 4.7 | | 0.072 | | 1.95 | | 0.008 | |
| 50011 | DE-23 | 2.15 | | 2.49 | | 0.63 | | 0.099 | | 0.412 | | 0.06 | | 0.008 | | 0.04 | | 4.31 | | 0.082 | | 2.06 | | 0.01 | |
| 50012 | DN-23 | 2.55 | †† | 2.84 | †† | 0.708 | † | 0.112 | † | 0.437 | †† | 0.064 | † | 0.00837 | | 0.0436 | †† | 5.25 | | 0.0877 | | 2.29 | †† | 0.00926 | |
| 50014 | DE-23 | 2.33 | | 2.54 | | 0.633 | | 0.101 | | 0.4 | | 0.059 | | 0.008 | | 0.0403 | | 4.68 | | 0.0793 | | 1.97 | | 0.0093 | |
| 50017 | DE-23 | 2.38 | | 2.6 | | 0.664 | | 0.101 | | 0.399 | | 0.056 | | 0.008 | | 0.039 | | 4.41 | | 0.0925 | † | 1.91 | | 0.0511 | †† |
| 50018 | DE-23 | 2.23 | | 2.46 | | 0.64 | | 0.101 | | 0.403 | | 0.059 | | 0.0075 | | 0.0391 | | 5.16 | | 0.084 | | 2.04 | | 0.008 | |
| 50020 | GI-23 | 2.41 | | 2.61 | | 0.675 | | 0.105 | | 0.415 | | 0.065 | † | | | 0.04 | | 4.74 | | 0.08 | | 2.07 | | | |
| 50024 | GJ-23 | 2.16 | | 2.39 | | 0.632 | | 0.103 | | 0.407 | | 0.057 | | 0.008 | | 0.039 | | 4.39 | | 0.079 | | 1.93 | | 0.0084 | |
| 50025 | GJ-23 | 2.19 | | 2.18 | †† | 0.557 | † | 0.096 | | 0.419 | | 0.061 | | 0.011 | †† | 0.043 | †† | 4.15 | | 0.086 | | 1.82 | | 0.012 | |
| 50027 | DN-24 | 2.31 | | 2.53 | | 0.638 | | 0.099 | | 0.4 | | 0.061 | | 0.0083 | | 0.0399 | | 4.71 | | 0.0804 | | 1.96 | | 0.0098 | |
| 50029 | AD-23 | 2.19 | | 2.55 | | 0.65 | | 0.101 | | 0.398 | | 0.059 | | 0.00847 | | 0.0391 | | 5.1 | | 0.0792 | | 2.03 | | 0.00881 | |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 2.67 | †† | 0.065 | †† | 1.09 | †† | 0.013 | |
| 50037 | DE-23 | 2.25 | | 2.43 | | 0.638 | | 0.1 | | 0.404 | | 0.059 | | 0.0074 | | 0.0392 | | 5.14 | | 0.0841 | | 2.06 | | 0.0081 | |
| 52283 | GJ-23 | 2.24 | | 2.46 | | 0.632 | | 0.092 | | 0.418 | | 0.329 | †† | 0.239 | †† | 0.149 | †† | 5.22 | | 0.84 | †† | 2.07 | | 0.009 | |
| 52387 | DE-14 | 1.96 | † | 2.18 | †† | 0.64 | | 0.232 | †† | 0.391 | | 0.042 | †† | 0.011 | †† | 0.039 | | 0.68 | †† | 0.074 | | 1.37 | †† | 0.011 | |
| 52491 | GI-23 | 2.36 | | 2.62 | | 0.64 | | 0.102 | | 0.412 | | | | 0.00746 | | 0.0388 | | 4.41 | | 0.0884 | | 1.93 | | 0.00808 | |
| 52494 | GG-23 | 2.15 | | 2.39 | | 0.591 | | 0.091 | | 0.345 | †† | | | 0.006 | † | 0.035 | †† | 4.67 | | 0.077 | | 1.86 | | 0.008 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52495 | GI-24 | 2.42 | | 2.56 | | 0.657 | | 0.106 | | 0.406 | | 0.057 | | 0.00822 | | 0.0392 | | 4.61 | | 0.083 | | 2.07 | | 0.0103 | |
| 52565 | DN-23 | 0.22 | †† | 0.22 | †† | 0.56 | † | 0.09 | | 0.36 | †† | | | 0.01 | † | 0.038 | | 0.43 | †† | 0.11 | †† | 1.85 | | 0.01 | |
| 52610 | GG-23 | 2.1 | | 2.15 | †† | 0.58 | | 0.09 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 2.16 | | 2.48 | | 0.605 | | 0.093 | | 0.392 | | 0.059 | | 0.01 | † | 0.041 | | 4.06 | | 0.072 | | 1.87 | | 0.01 | |
| 52639 | DE-38 | | | | | | | | | | | | | | | | | 5 | | 0.073 | | 1.96 | | 0.019 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Carbon (%w/w) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | CA-37 | 39.9 | | 43.7 | † | 43.3 | | 43.2 | | 50.7 | | 43.2 | | 41.9 | | 42.6 | | 36.6 | | 45.9 | | 50.5 | | 42.7 | |
| 10156 | CA-37 | | | | | | | | | | | | | | | | | 35 | †† | 44 | †† | 49.2 | †† | 40.3 | †† |
| 10173 | CA-37 | 40.3 | | 44.3 | | 43.3 | | 44.1 | | 49.1 | †† | 42.5 | | 41.6 | | 42 | | 37.1 | | 46 | | 49.8 | | 44.1 | |
| 10181 | CA-37 | 40 | | 44 | | 44 | | 45 | | 51.9 | | 44.7 | | 43.7 | | 44 | | 36.5 | | 46.5 | | 51.1 | | 43.5 | |
| 11079 | CA-37 | | | | | | | | | | | | | | | | | 36.6 | | 46.3 | | 50.7 | | 44.1 | |
| 20204 | CA-37 | 40.1 | | 44.3 | | 43.6 | | 43.5 | | 51.8 | | 43.4 | | 42.3 | | 42.7 | | 36.7 | | 46.5 | | 52.2 | †† | 42.6 | |
| 21100 | CA-37 | 40.7 | † | 44.5 | † | 44.1 | | 44.7 | | 52.6 | | 44.7 | | 44.3 | | 44.8 | | 36.9 | | 46.2 | | 50.8 | | 44 | |
| 21229 | CA-37 | 40.4 | | 44.2 | | 43.9 | | 43.7 | | 50.4 | | 42.8 | | 42.7 | | 43.1 | | 37.5 | | 47.6 | †† | 46.7 | †† | 44.3 | |
| 21230 | CA-37 | 39.2 | †† | 42.9 | †† | 42.7 | | 43.1 | | 51.2 | | 44.4 | | 43.3 | | 43.7 | | 35.9 | | 45.6 | | 50.4 | | 43.4 | |
| 21232 | CA-37 | | | | | | | | | | | | | | | | | 33.8 | †† | 43.8 | †† | 48.4 | †† | 41.7 | |
| 50004 | CA-37 | 40.2 | | 44 | | 43.5 | | 43.8 | | 51.2 | | 43.6 | | 42.5 | | 43.3 | | 36.5 | | 46 | | 50.4 | | 43.3 | |
| 50005 | CA-37 | 40.1 | | 44.1 | | 43.5 | | 44 | | 51.6 | | 43.4 | | 42.2 | | 42.7 | | 37.4 | | 46.3 | | 51.1 | | 42.9 | |
| 50008 | CA-37 | 40 | | 44 | | 43.4 | | 44 | | 51.1 | | 44.1 | | 43.1 | | 43.6 | | 36.8 | | 46.2 | | 50.6 | | 43.7 | |
| 50011 | CA-37 | 40.6 | † | 44.8 | †† | 44 | | 43.6 | | 51.4 | | 44.7 | | 43.8 | | 43.8 | | 36.6 | | 46.3 | | 50.4 | | 43.7 | |
| 50012 | CA-37 | 40.3 | | 44 | | 43.4 | | 43.4 | | 51 | | 44.1 | | 43.1 | | 43.6 | | 36.4 | | 45.7 | | 49.8 | | 43.1 | |
| 50014 | CA-37 | 40.8 | † | 44.8 | †† | 44.2 | | 44.8 | | 51.8 | | 44.7 | | 43.9 | | 44.2 | | 36.3 | | 45.9 | | 50.5 | | 43.6 | |
| 50017 | CA-37 | 40.1 | | 43.3 | †† | 42.8 | | 43.3 | | 50.4 | | 44.1 | | 43.4 | | 43.5 | | 36.8 | | 46.4 | | 50.4 | | 1.37 | †† |
| 50018 | CA-37 | 40.2 | | 44.1 | | 43.7 | | 44.2 | | 51.5 | | 44.4 | | 43.6 | | 44.1 | | 37.3 | | 46.2 | | 50.3 | | 44.6 | |
| 50020 | CA-37 | 40.5 | | 44.3 | | 43.8 | | 44.5 | | 50.6 | | 44 | | 42.8 | | 43.6 | | 36.3 | | 45.8 | | 50.2 | | 43.1 | |
| 50024 | CA-37 | 39.7 | † | 43.1 | †† | 42.8 | | 43.1 | | 51.2 | | 43.4 | | 43.2 | | 43.2 | | 37.1 | | 46.5 | | 51.3 | † | 44.3 | |
| 50027 | CA-37 | 40.2 | | 44 | | 43.3 | | 43.3 | | 51.4 | | 43.3 | | 42 | | 42.4 | | 36.6 | | 45.8 | | 51.1 | | 41.9 | |
| 50029 | CA-37 | 40.1 | | 43.9 | | 43.2 | | 43 | | 51.5 | | 43.3 | | 41.8 | | 42.4 | | 36.9 | | 45.6 | | 49.9 | | 42 | |
| 50037 | CA-37 | 40.2 | | 44.2 | | 43.8 | | 44.1 | | 51.7 | | 44.5 | | 43.6 | | 44.2 | | 37.2 | | 46.3 | | 50.4 | | 44.6 | |
| 52283 | CA-37 | 40.3 | | 44.2 | | 43.6 | | 44.4 | | 51.9 | | 45.1 | | 44.1 | | 44.5 | | 34.9 | †† | 46.2 | | 49.1 | †† | 43.9 | |
| 52491 | CA-37 | 40 | | 44 | | 43.3 | | 43.2 | | 51 | | | | 41.7 | | 42.4 | | 36 | | 45.3 | † | 50.5 | | 41.5 | |
| 52495 | CA-37 | 40.7 | † | 44.4 | | 43.9 | | 44.7 | | 51.4 | | 44.3 | | 43.9 | | 44.3 | | 36.3 | | 46 | | 50.2 | | 43.7 | |
| 52565 | CA-37 | 38 | †† | 42 | †† | 41 | †† | 41 | †† | 49.5 | † | | | 39.8 | †† | 40.6 | †† | | | | | | | | |
| 52636 | CA-37 | 40.2 | | 43.9 | | 43.3 | | 43 | | 49.3 | †† | 39.7 | †† | 39.5 | †† | 40.5 | †† | 36.2 | | 45.1 | † | 50.6 | | 41.3 | † |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Chloride (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | BA-32 | 6970 | | 1590 | | 8410 | | 1380 | | 290 | | 772 | | 211 | | 238 | | 2000 | | 6380 | | 969 | | 301 | |
| 10173 | BA-27 | 6880 | | 1540 | | 8290 | | 1400 | | | | | | | | | | 2010 | | 6450 | | 991 | | 319 | |
| 20204 | BB-27 | 7270 | | 1710 | | 8100 | | 1330 | | 345 | | 962 | | 82 | | 355 | | 3440 | †† | 6210 | | 1430 | †† | 89.8 | †† |
| 21043 | BB-31 | 6520 | | 1670 | | 7820 | | 1400 | | | | | | | | | | | | | | | | | |
| 21088 | BB-31 | 7230 | | 3490 | †† | 7720 | † | 1650 | †† | 877 | †† | 1310 | | 165 | | 528 | | 2570 | | 5640 | †† | 1690 | †† | 299 | |
| 21100 | BB-31 | 3030 | †† | 1500 | | 2520 | †† | 411 | †† | 737 | † | 1070 | | 256 | | 593 | | 1960 | | 6520 | | 959 | | 286 | |
| 21229 | BB-31 | 7050 | | 1630 | | 8090 | | 1320 | | 343 | | 757 | | 171 | | 239 | | 1940 | | 6260 | | 1050 | | 324 | |
| 21230 | BB-28 | | | | | | | | | 206 | | 640 | | 149 | | 162 | | | | | | | | | |
| 21232 | BB-31 | 5500 | †† | 1330 | † | 7170 | †† | 1000 | †† | 500 | | 833 | | 500 | †† | 500 | | 1500 | | 5500 | †† | 1000 | | 500 | †† |
| 50005 | BB-32 | 7050 | | 1700 | | 8210 | | 1410 | | 355 | | 350 | †† | 137 | | 162 | | 2130 | | 6140 | | 2240 | †† | 214 | †† |
| 50011 | BB-31 | 6660 | | 1620 | | 8200 | | 1240 | † | 394 | | 798 | | 239 | | 294 | | 1960 | | 6190 | | 950 | | 325 | |
| 50012 | BB-31 | 7660 | † | 1980 | †† | 8710 | † | 1400 | | 286 | | 929 | | 192 | | 293 | | 1870 | | 6280 | | 814 | | 219 | †† |
| 50014 | BB-31 | 7800 | † | 2100 | †† | 9000 | †† | 1400 | | 600 | † | 890 | | 220 | | 210 | | 2200 | | 6800 | † | 1200 | † | 300 | |
| 50018 | BB-32 | 7010 | | 1630 | | 8260 | | 1470 | | 341 | | 1000 | | 271 | | 412 | | 1630 | | 6260 | | 946 | | 314 | |
| 50020 | BA-31 | 8380 | †† | 4850 | †† | 8940 | † | 1350 | | 983 | †† | 934 | | 154 | | 228 | | | | | | | | | |
| 50027 | BB-32 | 6880 | | 1210 | †† | 8170 | | 1050 | †† | 390 | | 1070 | | 490 | †† | 600 | | 1870 | | 6380 | | 820 | | 240 | † |
| 50027 | BB-27 | 6940 | | 1300 | †† | 8150 | | 1470 | | 390 | | 1070 | | 490 | †† | 600 | | 2290 | | 6420 | | 700 | † | 290 | |
| 50029 | BB-31 | 7530 | | 3480 | †† | 8780 | † | 1430 | | 776 | †† | 1070 | | 261 | | 521 | | 2480 | | 6480 | | 1770 | †† | 334 | |
| 50032 | BB-31 | | | | | | | | | | | | | | | | | 2700 | † | 6690 | † | 800 | | 490 | †† |
| 50037 | BB-32 | 7010 | | 1630 | | 8260 | | 1480 | | 343 | | 1010 | | 270 | | 410 | | 1630 | | 6260 | | 945 | | 312 | |
| 52494 | BA-32 | 6840 | | 1540 | | 8440 | | 1400 | | 230 | | | | 141 | | 278 | | 1920 | | 5960 | | 880 | | 132 | †† |
| 52565 | BA-31 | 6200 | † | 1700 | | 7500 | † | 1300 | | 2020 | †† | | | 1400 | †† | 280 | | 1720 | | 5290 | †† | 1120 | | 342 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Cobalt (µg/kg) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-24 | 1670 | | 44.9 | | 411 | | 917 | | 78.1 | | | | 22.2 | | 46.3 | | 15 | | 176 | | 94.6 | | 8.8 | |
| 8888 | DE-24 | 1680 | | 49 | | 479 | †† | 1010 | | 80.6 | | 61.1 | | 19.7 | | 49.9 | | 31.4 | | 222 | | 105 | | | |
| 10156 | GI-23 | 1450 | | 38.6 | | 365 | †† | 761 | | | | | | | | | | 34 | | 190 | | 104 | | 6 | |
| 10173 | DN-24 | 1430 | | 56.5 | | 394 | | 851 | | 69.8 | | 49.2 | | 17.9 | | 39.1 | | 77.2 | †† | 184 | | 131 | | 7.5 | |
| 11079 | DE-23 | | | | | | | | | | | | | | | | | 92.2 | †† | 268 | | 154 | †† | 42.2 | †† |
| 20204 | GJ-23 | 1470 | | 49.7 | | 380 | | 574 | †† | 80.7 | | 36.3 | | 37.9 | †† | 48.4 | | 235 | †† | 230 | | 300 | †† | 10 | |
| 21088 | DE-23 | 1410 | | 92 | †† | 414 | | 948 | | 80 | | 44 | | 29 | †† | 48 | | 93 | †† | 199 | | 179 | †† | 15 | |
| 21100 | DE-24 | 1600 | | 48.6 | | 401 | | 930 | | 69.6 | | 51.8 | | 20.7 | | 33.4 | †† | 35.7 | | 165 | | 98.7 | | 12.4 | |
| 21178 | DE-24 | 1360 | †† | 46.4 | | 353 | †† | 839 | | | | | | | | | | | | | | | | | |
| 21229 | GI-24 | 1550 | | 41.7 | | 409 | | 971 | | 65.7 | | 89.2 | | 28.6 | †† | 60.9 | †† | 26.1 | | 210 | | 89.6 | | 10.3 | |
| 21230 | DE-24 | 1780 | †† | 129 | †† | 533 | †† | 1160 | †† | 114 | †† | 100 | | 58.5 | †† | 83.1 | †† | 75.4 | †† | 273 | | 148 | †† | 48.3 | †† |
| 50004 | DE-24 | 1590 | | 10.1 | †† | 473 | †† | 971 | | 75.7 | | 59.7 | | 22 | | 45.7 | | 30.8 | | 263 | | 103 | | 7.22 | |
| 50005 | DE-24 | 1580 | | 45.9 | | 395 | | 901 | | 76.7 | | 58.3 | | 22.7 | | 44.4 | | 40.5 | | 230 | | 159 | †† | 18 | |
| 50011 | DE-24 | 1610 | | 54.9 | | 394 | | 856 | | 76.3 | | 58.6 | | 22.2 | | 46.5 | | 40 | | 211 | | 114 | | 11.9 | |
| 50012 | DN-24 | 1590 | | 51 | | 409 | | 910 | | 75 | | 59 | | 21 | | 47 | | 39 | | 225 | | 96 | | 13 | |
| 50014 | DE-24 | 1510 | | 46.7 | | 410 | | 934 | | 75 | | 61.7 | | 26 | | 51 | | 35.5 | | 223 | | 108 | | 9.36 | |
| 50018 | DE-24 | 1540 | | 47.4 | | 402 | | 989 | | 74.4 | | 61.8 | | 21.3 | | 48.6 | | 112 | †† | 212 | | 132 | | 4.51 | |
| 50020 | GI-23 | 500 | †† | | | | | | | 1000 | †† | | | | | | | 1000 | †† | | | | | | |
| 50024 | GJ-24 | 1500 | | 51 | | 386 | | 869 | | 71.5 | | 53.9 | | 20.5 | | 42 | | 24.3 | | 170 | | 98.8 | | 14 | |
| 50027 | DN-24 | 1560 | | 48 | | 404 | | 892 | | 73 | | 58 | | 23 | | 46 | | 44 | | 175 | | 110 | | 15 | |
| 50029 | AD-23 | 1460 | | 43.4 | | 440 | †† | 957 | | 70.6 | | 48.2 | | 21.5 | | 33.3 | †† | 31.6 | | 238 | | 105 | | 10.5 | |
| 50037 | DE-24 | 1540 | | 47.2 | | 401 | | 986 | | 74.6 | | 61.9 | | 21.4 | | 48.7 | | 113 | †† | 210 | | 132 | | 4.52 | |
| 52491 | GI-24 | 1570 | | 43.9 | | 391 | | 905 | | | | | | | | | | 38.2 | | 255 | | 110 | | 14.3 | |
| 52495 | GI-24 | 1650 | | 61.8 | †† | 429 | | 977 | | 75.8 | | 59.8 | | 21.1 | | 44.5 | | 51.9 | | 186 | | 111 | | 8.88 | |
| 52565 | DN-24 | 1200 | †† | 50 | | 100 | †† | 600 | †† | 115 | †† | | | 56.2 | †† | 76.5 | †† | 38.6 | | 173 | | 72.4 | †† | 1.5 | |
| 52610 | DE-24 | 1500 | | 44 | | 400 | | 880 | | | | | | | | | | | | | | | | | |

Withdrawn

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Copper (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 137 | | 9.23 | | 11.7 | | 8.01 | | 6.15 | | 10.1 | | 2.73 | | 5.75 | | 16.5 | | 32.6 | | 8.34 | | 4.29 | |
| 8888 | DE-23 | 144 | | 9.58 | | 12.2 | | 8.25 | | 6.4 | | 10.8 | | 2.65 | | 6.12 | | 17.1 | | 32.5 | | 8.66 | | 4.11 | |
| 10156 | GI-23 | 105 | †† | 6.63 | †† | 7.95 | †† | 5.69 | †† | | | | | | | | | 15 | | 30.2 | | 8.03 | | 2.3 | †† |
| 10173 | DN-24 | 130 | | 7.84 | | 11.2 | | 7.59 | | 5.24 | | 8.74 | †† | 2.15 | | 5.1 | † | 16.8 | | 32.9 | | 8.33 | | 4.36 | |
| 11079 | DE-23 | 142 | | 9.67 | | 12.2 | | 9.07 | †† | | | | | | | | | 22.3 | †† | 40 | †† | 11 | †† | 7.05 | †† |
| 20204 | GJ-23 | 140 | | 9.61 | | 12.3 | | 8.3 | | 5.8 | | 9.85 | | 2.29 | | 4.65 | †† | 15.6 | | 32.9 | | 7.74 | | 3.49 | †† |
| 21043 | GJ-23 | 112 | †† | 8.31 | | 10.8 | | 7.72 | | 5.46 | | 9.27 | | 2.36 | | 5.25 | | 14.9 | | 31.1 | | 8.2 | | 4.46 | |
| 21088 | DE-23 | 123 | | 8.3 | | 10.3 | | 7.4 | | 7.8 | †† | 9.4 | | 3 | | 15.5 | †† | 18.3 | | 30.4 | | 7.8 | | 4.5 | |
| 21100 | DE-24 | 135 | | 9.26 | | 11.6 | | 7.78 | | 6.24 | | 10.3 | | 2.61 | | 5.65 | | 16.4 | | 34.1 | | 9.02 | | 4.62 | |
| 21178 | DE-23 | 139 | | 8.63 | | 11.3 | | 8.06 | | | | | | | | | | | | | | | | | |
| 21190 | AD-13 | 147 | | 4.92 | †† | 5.04 | †† | 5.1 | †† | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 135 | | 8.72 | | 11.3 | | 7.7 | | 6.2 | | 10.1 | | 2.43 | | 5.71 | | 15.2 | | 32.9 | | 8.71 | | 4.47 | |
| 21230 | DE-23 | 124 | | 7.79 | | 10.8 | | 7.06 | | 5.76 | | 9.86 | | 2.4 | | 5.53 | | 14.4 | | 30.2 | | 7.94 | | 4.13 | |
| 21232 | DE-23 | 128 | | 8.26 | | 10.8 | | 7.16 | | 5.6 | | 9.71 | | 2.3 | | 5.39 | | 16.3 | | 32.5 | | 8.69 | | 4.52 | |
| 21234 | GH-09 | 134 | | 9.14 | | 11.7 | | 7.46 | | | | | | | | | | 14.7 | | 30.4 | | 7.97 | | 3.95 | |
| 50004 | DE-23 | 143 | | 9.14 | | 11.7 | | 7.62 | | 6.04 | | 10.2 | | 2.49 | | 5.73 | | 17.4 | | 29.6 | | 8.24 | | 4.07 | |
| 50005 | DE-23 | 132 | | 8.65 | | 11.3 | | 7.64 | | 6.04 | | 9.6 | | 3.15 | | 5.92 | | 15.9 | | 32.3 | | 8.51 | | 4.72 | |
| 50008 | GJ-23 | 125 | | 8.58 | | 10.7 | | 7.67 | | 5.82 | | 10 | | 2.75 | | 5.74 | | 14.8 | | 31.9 | | 8.14 | | 4.47 | |
| 50011 | DE-23 | 125 | | 8.79 | | 11.7 | | 8.07 | | 6.23 | | 10.4 | | 2.76 | | 5.87 | | 14.9 | | 32.2 | | 8.92 | | 4.66 | |
| 50012 | DN-24 | | | 8.78 | | 10.9 | | 7.53 | | 6.05 | | 10.4 | | 2.56 | | 5.9 | | 13.3 | | 28.7 | | 7.35 | | 3.9 | |
| 50012 | DN-23 | 153 | †† | | | | | | | | | | | | | | | | | | | | | | |
| 50014 | DE-24 | 127 | | 8.65 | | 11.4 | | 7.82 | | 5.96 | | 10.3 | | 2.75 | | 5.9 | | 15.9 | | 35.6 | | 8.67 | | 4.57 | |
| 50017 | DE-23 | 130 | | 8.71 | | 11.5 | | 7.86 | | 5.97 | | 11.3 | † | 2.9 | | 6.26 | | 15.8 | | 33.3 | | 8.56 | | 4.48 | |
| 50018 | DE-23 | 135 | | 8.74 | | 11.2 | | 7.84 | | 5.94 | | 10.3 | | 2.69 | | 5.89 | | 15.9 | | 32.5 | | 8.35 | | 4.21 | |
| 50020 | GI-23 | 152 | †† | 12 | †† | 12.9 | | 8.5 | | 5.44 | | 9.75 | | | | 4.47 | †† | 21.9 | †† | 33.6 | | 11.5 | †† | 4.99 | |
| 50024 | GJ-23 | 139 | | 8.6 | | 11.9 | | 8.1 | | 5.79 | | 9.53 | | 2.46 | | 5.46 | | 17.7 | | 33.9 | | 8.74 | | 4.44 | |
| 50025 | GJ-23 | | | 8.55 | | 11.4 | | 8.37 | | 7.06 | †† | 12.2 | †† | 7.39 | †† | 7.44 | †† | 14.3 | | 33.7 | | 10 | †† | 6.72 | †† |
| 50027 | DN-24 | 133 | | 9.17 | | 11.6 | | 7.85 | | 6.02 | | 10.1 | | 2.57 | | 5.81 | | 16.2 | | 32.6 | | 8.43 | | 4.2 | |
| 50029 | AD-23 | 140 | | 9.95 | | 10.8 | | 8.35 | | 6.36 | | 11.3 | † | 0.959 | †† | 6.43 | † | 18.7 | † | 35 | | 9.9 | †† | 2.91 | †† |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 15.4 | | 29.6 | | 7.79 | | 3.84 | |
| 50037 | DE-23 | 135 | | 8.72 | | 11.1 | | 7.86 | | 5.96 | | 10.3 | | 2.68 | | 5.88 | | 15.9 | | 32.6 | | 8.35 | | 4.21 | |
| 52283 | GJ-23 | 139 | | 9.12 | | 11.6 | | 7.93 | | 8.93 | †† | 12.5 | †† | 0.516 | †† | 3.39 | †† | 14.8 | | 33.2 | | 7.93 | | 4.23 | |
| 52387 | DE-11 | 131 | | 9.66 | | 12.9 | | 7.3 | | 5.68 | | 8.64 | †† | 2.46 | | 4.58 | †† | 15.2 | | 28.6 | | 8.43 | | 4.54 | |
| 52491 | GI-23 | 147 | | 9.33 | | 13.6 | †† | 8.1 | | 5.42 | | | | 1.84 | †† | 4.99 | † | 15.2 | | 32.5 | | 8.28 | | 4.14 | |
| 52494 | GG-23 | 125 | | 8.3 | | 10.7 | | 6.9 | † | 5.4 | | | | 2.4 | | 5.6 | | 15 | | 30.4 | | 7.69 | | 3.8 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52495 | GI-24 | 144 | | 9.5 | | 12.4 | | 8.46 | | 6.15 | | 10.6 | | 2.56 | | 5.82 | | 16.5 | | 34.4 | | 9.26 | | 4.62 | |
| 52565 | DN-23 | 120 | | 8.7 | | 12 | | 7.5 | | 5.5 | | | | 2.8 | | 5.2 | † | 13.3 | | 28 | † | 6.2 | †† | 4.5 | |
| 52610 | DE-24 | 130 | | 8.9 | | 11 | | 7.3 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 136 | | 9.02 | | 12.1 | | 8.41 | | 6.83 | † | 10.5 | | 3.62 | †† | 6.47 | † | 7.37 | †† | 28.4 | | 5.2 | †† | 3.99 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Iron (mg/kg) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 274 | | 84.6 | †† | 358 | | 46.9 | | 216 | | 78.4 | | 8.79 | | 39.5 | | 103 | | 223 | | 290 | | 11 | |
| 8888 | DE-23 | 262 | | 72.7 | | 353 | | 47.8 | | 245 | †† | 82.1 | | 15.7 | †† | 41.5 | | 93.2 | | 252 | | 277 | | 11.5 | |
| 10156 | GI-23 | 213 | † | 60.5 | †† | 281 | † | 34.5 | †† | | | | | | | | | 99 | | 218 | | 256 | | 10.3 | |
| 10173 | DN-24 | 282 | | 115 | †† | 326 | | 40.5 | † | 220 | | 73.9 | | 8.19 | | 39.6 | | 211 | †† | 214 | | 341 | † | 9.44 | |
| 11079 | DE-23 | 274 | | 84.4 | †† | 384 | | 52.4 | | | | | | | | | | 130 | † | 252 | | 337 | † | 13.6 | |
| 20204 | GJ-23 | 270 | | 72.3 | | 353 | | 52.7 | † | 207 | | 78.9 | | 20 | †† | 47.6 | †† | 106 | | 215 | | 260 | | 5.75 | †† |
| 21043 | GJ-23 | 242 | | 84.4 | †† | 327 | | 36.4 | †† | 206 | | 67.6 | †† | 4.02 | †† | 32.6 | †† | 126 | | 210 | | 293 | | 9.74 | |
| 21088 | DE-23 | 254 | | 68 | | 317 | | 46.5 | | 200 | | 64 | †† | 9.03 | | 38.2 | | 111 | | 197 | | 261 | | 12 | |
| 21100 | DE-24 | 223 | | 65.6 | | 248 | †† | 57.6 | †† | 187 | | 91.3 | † | 20.5 | †† | 50.1 | †† | 103 | | 169 | | 216 | †† | 13.3 | |
| 21178 | DE-23 | 206 | †† | 60.6 | †† | 272 | †† | 44.3 | | | | | | | | | | | | | | | | | |
| 21190 | AD-13 | 210 | † | 58.6 | †† | 256 | †† | 30.3 | †† | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 258 | | 71.4 | | 343 | | 45.7 | | 207 | | 78.8 | | 7.75 | | 42.3 | | 91.8 | | 208 | | 264 | | 10.7 | |
| 21230 | DE-23 | 306 | †† | 67.7 | | 311 | | 28.2 | †† | 177 | †† | 75.2 | | 7.05 | | 36.8 | | 79.1 | †† | 192 | | 223 | †† | 7.53 | † |
| 21232 | DE-23 | 287 | | 72.4 | | 355 | | 41.6 | | 222 | | 80.7 | | 8.72 | | 38.2 | | 110 | | 253 | | 299 | | 13.8 | |
| 21234 | GH-09 | 462 | †† | 135 | †† | 607 | †† | 89.7 | †† | | | | | | | | | 80 | † | 163 | | 224 | †† | 4.48 | †† |
| 50004 | DE-23 | 283 | | 75.7 | | 365 | | 46.8 | | 214 | | 82.9 | | 20.9 | †† | 41.2 | | 103 | | 245 | | 286 | | 10.9 | |
| 50005 | DE-23 | 255 | | 72.1 | | 342 | | 45.2 | | 207 | | 85.6 | | 12.2 | † | 41.6 | | 111 | | 201 | | 302 | | 18 | †† |
| 50008 | GJ-23 | 248 | | 70.4 | | 310 | | 47.1 | | 197 | | 76.6 | | 8.73 | | 39 | | 99.7 | | 185 | | 268 | | 10.5 | |
| 50011 | DE-23 | 243 | | 74.8 | | 341 | | 47.1 | | 212 | | 81.2 | | 9.96 | | 42.3 | | 104 | | 223 | | 294 | | 12.3 | |
| 50012 | DN-23 | 287 | | 80.9 | | 381 | | 57.6 | †† | 230 | | 87.4 | | 9.44 | | 44.3 | | 121 | | 231 | | 297 | | 11.8 | |
| 50014 | DE-23 | 272 | | 76.6 | | 364 | | 47.5 | | 209 | | 81.6 | | 7.2 | | 41.7 | | 111 | | 202 | | 300 | | 12.2 | |
| 50017 | DE-23 | 257 | | 69 | | 341 | | 44.4 | | 214 | | 85.1 | | 10 | | 42.4 | | 103 | | 228 | | 290 | | 31.1 | †† |
| 50018 | DE-23 | 254 | | 71.8 | | 346 | | 47.1 | | 205 | | 80.3 | | 8.43 | | 39.7 | | 94.2 | | 205 | | 286 | | 10.4 | |
| 50020 | GI-23 | 212 | † | 75.3 | | 296 | | 52 | | 202 | | 90.7 | † | 10.4 | | 44.1 | | 121 | | 75.1 | †† | 272 | | 21.6 | †† |
| 50024 | GJ-23 | 253 | | 69 | | 336 | | 44 | | 209 | | 76.2 | | 8.61 | | 39.2 | | 114 | | 236 | | 310 | | 11.6 | |
| 50025 | GJ-23 | 254 | | 68.6 | | 325 | | 41.3 | | 214 | | 84.4 | | 25.7 | †† | 46.2 | † | 111 | | 257 | | 297 | | 15.7 | † |
| 50027 | DN-24 | 266 | | 77.1 | | 330 | | 42.8 | | 205 | | 76.8 | | 8.3 | | 37.8 | | 123 | | 234 | | 300 | | 9.9 | |
| 50029 | AD-23 | 239 | | 70.7 | | 362 | | 49.6 | | 213 | | 81.6 | | 10.1 | | 41.4 | | 106 | | 236 | | 297 | | 12.2 | |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 89.1 | | 217 | | 260 | | 22.6 | †† |
| 50037 | DE-23 | 256 | | 71.4 | | 344 | | 47 | | 207 | | 80.1 | | 8.45 | | 39.5 | | 94.1 | | 207 | | 288 | | 10.4 | |
| 52283 | GJ-23 | 263 | | 71.8 | | 346 | | 46.1 | | 218 | | 87.5 | | 12.3 | † | 35.3 | | 125 | | 212 | | 320 | | 24.5 | †† |
| 52387 | DE-11 | 223 | | 64.8 | | 308 | | 47.4 | | 187 | | 67.6 | †† | 8.77 | | 36.1 | | 95.4 | | 221 | | 255 | | 25.1 | †† |
| 52491 | GI-23 | 240 | | 74.1 | | 307 | | 47.7 | | 176 | †† | | | 8.4 | | 39.8 | | 137 | †† | 249 | | 316 | | 12.3 | |
| 52494 | GG-23 | 216 | | 68.4 | | 279 | † | 44.3 | | 163 | †† | | | 5.5 | † | 36.4 | | 100 | | 146 | †† | 224 | †† | 12.3 | |
| 52495 | GI-24 | 251 | | 75.2 | | 344 | | 48.5 | | 196 | | 77.9 | | 8.4 | | 39 | | 125 | | 182 | | 269 | | 11.2 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52565 | DN-23 | 250 | | 56 | †† | 331 | | 40 | † | 202 | | | | 9 | | 36.5 | | 110 | | 250 | | 284 | | 12 | |
| 52610 | DE-24 | 250 | | 73 | | 320 | | 45 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 260 | | 71.9 | | 312 | | 35.4 | †† | 221 | | 77.9 | | 12.4 | † | 51 | †† | 109 | | 268 | | 294 | | 17.4 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Lead (µg/kg) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 10156 | GI-23 | 32 | †† | 48.5 | †† | 63.5 | †† | 3.2 | | | | | | | | | | 260 | | 126 | | 335 | | | |
| 10173 | DN-24 | 60.4 | | 86.7 | | 154 | | 1.3 | | | | | | | | | | 266 | | 117 | | 311 | | 1.32 | |
| 11079 | DE-23 | | | | | | | | | | | | | | | | | 652 | †† | 424 | †† | 655 | †† | 39.4 | †† |
| 20204 | GJ-23 | 65.9 | | 112 | †† | 163 | | 125 | †† | 160 | | 178 | †† | 49.3 | †† | 140 | †† | 189 | | 140 | | 545 | †† | 231 | †† |
| 21088 | DE-23 | 200 | †† | 200 | †† | 200 | †† | 100 | †† | 500 | †† | 300 | †† | 300 | †† | 100 | †† | 800 | †† | 300 | †† | 800 | †† | 10 | †† |
| 21100 | DE-24 | 53.3 | | 82.8 | | 151 | | 1 | | 147 | | 4.62 | | 3.1 | | 0.463 | | 148 | †† | 16.7 | †† | 187 | †† | 0.1 | |
| 21178 | DE-24 | 46.8 | †† | 79.1 | †† | 120 | †† | 3.92 | | | | | | | | | | | | | | | | | |
| 21229 | GI-24 | 61.4 | | 86.6 | | 152 | | 2.79 | | 120 | †† | 3.47 | | 0.83 | | 4.29 | | 231 | | 101 | | 279 | | 1.24 | |
| 21230 | DE-24 | 87.2 | †† | 113 | †† | 180 | †† | 9.49 | | 158 | | 11.4 | †† | 6.73 | | 4.36 | | 267 | | 128 | | 334 | | 3.4 | |
| 50004 | DE-24 | 55.8 | | 91.4 | | 151 | | 4.8 | | 157 | | 16.1 | †† | 13.4 | | 10.1 | | 234 | | 131 | | 298 | | 1.2 | |
| 50005 | DE-24 | 60.1 | | 92.3 | | 157 | | 8.02 | | 125 | | 12.3 | †† | 8.42 | | 8.16 | | 148 | †† | 144 | | 1030 | †† | 21.5 | †† |
| 50011 | DE-24 | 56 | | 87.6 | | 141 | | 9.3 | | 146 | | 21.1 | †† | 17 | | 12.5 | | 222 | | 136 | | 282 | | 2.3 | |
| 50012 | DN-24 | 56 | | 91 | | 144 | | 8 | | 157 | | 7 | | 5 | | 2 | | 266 | | 148 | | 327 | | 4 | |
| 50014 | DE-24 | 58.5 | | 83.4 | | 150 | | 5 | | 137 | | 1 | | 1 | | 1 | | 263 | | 130 | | 313 | | 1.9 | |
| 50018 | DE-24 | 59.9 | | 92 | | 154 | | 5.94 | | 154 | | 4.02 | | 3.91 | | 3.61 | | 246 | | 142 | | 320 | | 4.52 | |
| 50020 | GI-23 | 500 | †† | | | | | | | 2680 | †† | | | | | | | 2560 | †† | | | 2450 | †† | | |
| 50024 | GJ-24 | 61.3 | | 92.3 | | 182 | †† | 11.1 | | 134 | | 3.4 | | 11.8 | | 0.2 | | 260 | | 144 | | 326 | | 2.5 | |
| 50027 | DN-24 | 56 | | 88 | | 144 | | 1 | | 167 | | 10 | †† | 7 | | 6 | | 271 | | 133 | | 321 | | 3 | |
| 50037 | DE-24 | 59.1 | | 92.3 | | 151 | | 5.96 | | 152 | | 4.01 | | 3.92 | | 3.62 | | 247 | | 141 | | 319 | | 4.53 | |
| 52491 | GI-24 | 49.6 | | 77.8 | †† | 156 | | 0.364 | | | | | | | | | | 231 | | 103 | | 259 | †† | 6.14 | |
| 52495 | GI-24 | 61.9 | | 93.4 | | 165 | | 4.91 | | 148 | | 4.92 | | 5.69 | | 3.13 | | 279 | | 122 | | 336 | | 7.35 | |
| 52565 | DN-24 | 1300 | †† | 923 | †† | 850 | †† | 318 | †† | 200 | †† | | | 21 | | 20 | †† | 248 | | 155 | | 238 | †† | 48 | †† |
| 52610 | DE-24 | 46 | †† | 80 | | 135 | | | | | | | | | | | | | | | | | | | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Magnesium (%w/w) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | | | |
| | | **ASP 2102-1** | | **ASP 2102-2** | | **ASP 2102-3** | | **ASP 2102-4** | | **ASP 2105-1** | | **ASP 2105-2** | | **ASP 2105-3** | | **ASP 2105-4** | | **ASP 2108-1** | | **ASP 2108-2** | | **ASP 2108-3** | | **ASP 2108-4** | |
| 22 | DE-23 | 1.29 | | 0.528 | | 0.243 | | 0.137 | | 0.19 | | 0.098 | | 0.084 | | 0.108 | | 1.08 | | 0.307 | | 0.284 | | 0.125 | |
| 8888 | DE-23 | 1.21 | | 0.517 | | 0.239 | | 0.133 | | 0.196 | | 0.099 | | 0.089 | | 0.111 | | 0.993 | | 0.277 | | 0.271 | | 0.117 | |
| 10156 | GI-23 | 1.16 | | 0.501 | | 0.225 | | 0.127 | | | | | | | | | | 1.01 | | 0.281 | | 0.271 | | 0.115 | |
| 10173 | DN-24 | 1.14 | | 0.493 | | 0.227 | | 0.125 | | 0.188 | | 0.094 | | 0.08 | | 0.111 | | 1.01 | | 0.292 | | 0.277 | | 0.125 | |
| 10181 | GF-23 | 1.33 | | 0.542 | | 0.244 | | 0.135 | | 0.199 | | 0.105 | | 0.086 | | 0.115 | | | | | | | | | |
| 11079 | DE-23 | 4.62 | †† | 1.65 | †† | 1.85 | †† | 1.05 | †† | | | | | | | | | 1.3 | †† | 0.322 | | 0.307 | | 0.147 | †† |
| 20204 | GJ-23 | 1.23 | | 0.564 | | 0.231 | | 0.13 | | 0.199 | | 0.111 | †† | 0.095 | †† | 0.126 | †† | 0.997 | | 0.289 | | 0.266 | | 0.118 | |
| 21043 | GJ-23 | 1 | † | 0.471 | | 0.21 | | 0.13 | | 0.172 | †† | 0.087 | †† | 0.077 | †† | 0.095 | †† | 0.953 | | 0.269 | | 0.263 | | 0.119 | |
| 21088 | DE-23 | 1.06 | | 0.435 | † | 0.201 | | 0.122 | | 0.178 | | 0.077 | †† | 0.065 | †† | 0.117 | | 1.02 | | 0.26 | † | 0.239 | | 0.108 | |
| 21100 | DE-24 | 1.16 | | 0.496 | | 0.225 | | 0.136 | | 0.199 | | 0.114 | †† | 0.0948 | †† | 0.13 | †† | 1.12 | | 0.341 | †† | 0.297 | | 0.15 | †† |
| 21178 | DE-23 | 1.17 | | 0.434 | †† | 0.217 | | 0.12 | | | | | | | | | | | | | | | | | |
| 21190 | AD-13 | 1.13 | | 0.467 | | 0.208 | | 0.112 | †† | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 1.23 | | 0.507 | | 0.234 | | 0.131 | | 0.191 | | 0.099 | | 0.0851 | | 0.106 | | 1.09 | | 0.296 | | 0.293 | | 0.124 | |
| 21230 | DE-23 | 1.46 | †† | 0.479 | | 0.186 | †† | 0.079 | †† | 0.151 | †† | 0.077 | †† | 0.0658 | †† | 0.0891 | †† | 1.04 | | 0.24 | †† | 0.226 | †† | 0.085 | †† |
| 21232 | DE-23 | 1.1 | | 0.482 | | 0.219 | | 0.121 | | 0.181 | | 0.093 | | 0.0777 | † | 0.102 | | 0.977 | | 0.286 | | 0.275 | | 0.113 | |
| 21234 | GH-09 | 1.23 | | 0.53 | | 0.237 | | 0.13 | | | | | | | | | | 1.01 | | 0.268 | | 0.266 | | 0.106 | |
| 50004 | DE-23 | 1.05 | | 0.5 | | 0.237 | | 0.132 | | 0.192 | | 0.098 | | 0.088 | | 0.107 | | 1.05 | | 0.281 | | 0.273 | | 0.122 | |
| 50005 | DE-23 | 1.23 | | 0.513 | | 0.234 | | 0.131 | | 0.194 | | 0.098 | | 0.0836 | | 0.107 | | 1.07 | | 0.305 | | 0.306 | | 0.1 | †† |
| 50008 | GJ-23 | 1.2 | | 0.507 | | 0.226 | | 0.128 | | 0.187 | | 0.103 | | 0.086 | | 0.114 | | 1.08 | | 0.295 | | 0.273 | | 0.121 | |
| 50011 | DE-23 | 1.24 | | 0.518 | | 0.239 | | 0.131 | | 0.197 | | 0.098 | | 0.086 | | 0.109 | | 1.01 | | 0.302 | | 0.303 | | 0.129 | |
| 50012 | DN-23 | 1.34 | | 0.577 | | 0.264 | | 0.147 | †† | 0.206 | | 0.109 | † | 0.0916 | | 0.121 | † | 1.25 | †† | 0.327 | | 0.315 | | 0.134 | |
| 50014 | DE-23 | 1.29 | | 0.538 | | 0.246 | | 0.137 | | 0.196 | | 0.103 | | 0.089 | | 0.117 | | 1.11 | | 0.311 | | 0.296 | | 0.13 | |
| 50017 | DE-23 | 1.17 | | 0.503 | | 0.232 | | 0.129 | | 0.186 | | 0.098 | | 0.084 | | 0.107 | | 1.03 | | 0.289 | | 0.269 | | 0.123 | |
| 50018 | DE-23 | 1.22 | | 0.508 | | 0.234 | | 0.131 | | 0.191 | | 0.101 | | 0.086 | | 0.107 | | 1.04 | | 0.294 | | 0.273 | | 0.128 | |
| 50020 | GI-23 | 1.32 | | 0.56 | | 0.255 | | 0.14 | | 0.21 | † | 0.115 | †† | 0.09 | | 0.13 | †† | 1.12 | | 0.295 | | 0.315 | | 0.13 | |
| 50024 | GJ-23 | 1.15 | | 0.523 | | 0.254 | | 0.145 | †† | 0.198 | | 0.101 | | 0.087 | | 0.112 | | 1.08 | | 0.321 | | 0.307 | | 0.134 | |
| 50025 | GJ-23 | 1.12 | | 0.497 | | 0.228 | | 0.131 | | 0.195 | | 0.101 | | 0.087 | | 0.116 | | 0.972 | | 0.298 | | 0.273 | | 0.128 | |
| 50027 | DN-24 | 1.17 | | 0.506 | | 0.23 | | 0.129 | | 0.194 | | 0.102 | | 0.0838 | | 0.111 | | 1.02 | | 0.3 | | 0.289 | | 0.123 | |
| 50029 | AD-23 | 1.26 | | 0.531 | | 0.245 | | 0.138 | | 0.191 | | 0.098 | | 0.0865 | | 0.107 | | 1.12 | | 0.303 | | 0.297 | | 0.128 | |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 1.03 | | 0.295 | | 0.278 | | 0.119 | |
| 50037 | DE-23 | 1.21 | | 0.505 | | 0.232 | | 0.13 | | 0.192 | | 0.102 | | 0.087 | | 0.106 | | 1.03 | | 0.296 | | 0.274 | | 0.129 | |
| 52283 | GJ-23 | 1.22 | | 0.511 | | 0.231 | | 0.129 | | 0.2 | | 0.176 | †† | 0.152 | †† | 0.127 | †† | 1.16 | | 0.301 | | 0.298 | | 0.131 | |
| 52387 | DE-11 | 1.35 | | 0.532 | | 0.258 | | 0.133 | | 0.2 | | 0.112 | †† | 0.085 | | 0.141 | †† | 1.26 | †† | 0.316 | | 0.416 | †† | 0.132 | |
| 52491 | GI-23 | 1.3 | | 0.551 | | 0.244 | | 0.134 | | 0.192 | | | | 0.0803 | | 0.106 | | 1.09 | | 0.315 | | 0.308 | | 0.127 | |
| 52494 | GG-23 | 1.14 | | 0.486 | | 0.217 | | 0.119 | † | 0.156 | †† | | | 0.071 | †† | 0.097 | † | 0.999 | | 0.268 | | 0.259 | | 0.108 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52495 | GI-24 | 1.33 | | 0.551 | | 0.251 | | 0.14 | | 0.193 | | 0.1 | | 0.0831 | | 0.109 | | 1.2 | †† | 0.313 | | 0.307 | | 0.13 | |
| 52565 | DN-23 | 1.2 | | 0.49 | | 0.22 | | 0.12 | | 0.18 | | | | 0.082 | | 0.11 | | | | | | | | | |
| 52610 | GG-23 | 1.11 | | 0.44 | | 0.22 | | 0.12 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 1.26 | | 0.548 | | 0.244 | | 0.127 | | 0.183 | | 0.092 | † | 0.083 | | 0.105 | | 0.989 | | 0.289 | | 0.285 | | 0.124 | |
| 52639 | DE-38 | | | | | | | | | | | | | | | | | 0.655 | †† | 0.166 | †† | 0.186 | †† | 0.065 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Manganese (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 143 | | 14 | | 40 | | 11.7 | | 299 | | 12.3 | | 15.4 | | 12 | | 213 | | 56.3 | | 18.1 | | 24.9 | |
| 8888 | DE-23 | 149 | | 13.6 | | 40.5 | | 11.6 | | 317 | † | 12.9 | | 15.8 | | 12.3 | | 212 | | 54.2 | | 17.7 | | 23.3 | |
| 10156 | GI-23 | 138 | | 13.2 | | 37.3 | | 10.6 | | | | | | | | | | 206 | | 51.1 | | 16.7 | | 22 | |
| 10173 | DN-24 | 135 | | 13.3 | | 37.3 | | 11.1 | | 298 | | 12.2 | | 15.3 | | 12.4 | | 224 | | 57 | | 18.9 | | 23.4 | |
| 11079 | DE-23 | 144 | | 14.6 | | 41.8 | | 12.5 | | | | | | | | | | 254 | †† | 66.7 | †† | 20.8 | † | 30.4 | †† |
| 20204 | GJ-23 | 131 | | 13.3 | | 36.8 | | 11.6 | | 263 | †† | 14.7 | †† | 15.2 | | 13.1 | | 197 | | 56.1 | | 21.7 | †† | 25.4 | |
| 21043 | GJ-23 | 127 | | 14.5 | | 35 | | 8.89 | †† | 270 | †† | 11.8 | | 15.5 | | 13.2 | † | 212 | | 49.2 | †† | 14.8 | †† | 18.3 | †† |
| 21088 | DE-23 | 123 | †† | 12 | | 33 | †† | 11 | | 273 | †† | 10 | †† | 12 | †† | 13 | | 233 | | 50 | †† | 16 | | 23 | |
| 21100 | DE-24 | 143 | | 14.4 | | 37.6 | | 12.2 | | 301 | | 14.7 | †† | 16.8 | | 13.9 | †† | 235 | | 63.7 | †† | 18.6 | | 29.9 | |
| 21178 | DE-23 | 133 | | 12.4 | | 35.7 | | 10.5 | | | | | | | | | | | | | | | | | |
| 21190 | AD-13 | 137 | | 14.2 | | 36.2 | | 12.2 | | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 140 | | 13 | | 38.6 | | 11.5 | | 298 | | 12.4 | | 15.5 | | 11.9 | | 198 | | 55.4 | | 17.7 | | 24.5 | |
| 21230 | DE-23 | 119 | †† | 11.3 | †† | 35.7 | | 10.6 | | 297 | | 12.9 | | 15.4 | | 12.1 | | 198 | | 54.2 | | 17.3 | | 24.9 | |
| 21232 | DE-23 | 141 | | 13.3 | | 38 | | 10.8 | | 291 | | 12.4 | | 14.9 | | 11.9 | | 211 | | 56.4 | | 18.3 | | 24.3 | |
| 21234 | GH-09 | 288 | †† | 28.1 | †† | 74.2 | †† | 19.9 | †† | | | | | | | | | 460 | †† | 126 | †† | 46.1 | †† | 33.8 | †† |
| 50004 | DE-23 | 142 | | 14 | | 40 | | 11.6 | | 288 | | 12.4 | | 14.7 | | 12.1 | | 204 | | 53.8 | | 17.4 | | 24.9 | |
| 50005 | DE-23 | 136 | | 13.1 | | 39.5 | | 11.4 | | 292 | | 12.6 | | 15.6 | | 12.2 | | 210 | | 55.9 | | 18.7 | | 25.3 | |
| 50008 | GJ-23 | 144 | | 13.6 | | 38.4 | | 11.5 | | 306 | | 13 | | 15.3 | | 12.3 | | 224 | | 57 | | 17.9 | | 25.5 | |
| 50011 | DE-23 | 139 | | 13.7 | | 40 | | 11.7 | | 298 | | 13 | | 16 | | 12.5 | | 210 | | 57.1 | | 19.3 | | 26.4 | |
| 50012 | DN-23 | 170 | †† | 15.9 | †† | 46 | †† | 13.8 | †† | 312 | | 14.1 | †† | 16.7 | | 13.4 | †† | 252 | †† | 65.2 | †† | 20.8 | † | 29.6 | |
| 50014 | DE-23 | 153 | | 14.5 | | 41.4 | | 12.2 | | 309 | | 14 | †† | 17 | | 13.6 | †† | 231 | | 60.4 | † | 19.6 | | 28.1 | |
| 50017 | DE-23 | 134 | | 13.1 | | 38.1 | | 11.2 | | 299 | | 13.9 | † | 16.7 | | 13 | | 212 | | 55.4 | | 18.2 | | 48.8 | †† |
| 50018 | DE-23 | 140 | | 13.4 | | 38.8 | | 11.6 | | 295 | | 12.6 | | 15.9 | | 12.1 | | 201 | | 55.4 | | 16.8 | | 25.5 | |
| 50020 | GI-23 | 154 | † | 14.4 | | 41.1 | | 12.2 | | 302 | | 14 | †† | 16.5 | | 13.6 | †† | 231 | | 55.2 | | 19.5 | | 25.9 | |
| 50024 | GJ-23 | 141 | | 13.1 | | 38 | | 11.5 | | 301 | | 12.8 | | 15.8 | | 12.4 | | 221 | | 57.6 | | 18.5 | | 25.9 | |
| 50025 | GJ-13 | 134 | | 13.5 | | 37.5 | | 12 | | 281 | | 12.7 | | 15.5 | | 12.4 | | 204 | | 58.5 | | 17.4 | | 26.5 | |
| 50027 | DN-24 | 147 | | 13.9 | | 38 | | 11 | | 280 | † | 12.1 | | 14 | | 11.8 | | 237 | | 54.6 | | 18.5 | | 22.9 | |
| 50029 | AD-23 | 136 | | 13.3 | | 39.7 | | 12.2 | | 306 | | 12.8 | | 16.2 | | 12.2 | | 216 | | 57.2 | | 18.8 | | 26.7 | |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 212 | | 55.4 | | 12.8 | †† | 20.2 | |
| 50037 | DE-23 | 141 | | 13.2 | | 38.6 | | 11.5 | | 294 | | 12.6 | | 15.9 | | 12.1 | | 200 | | 55.6 | | 16.7 | | 25.4 | |
| 52283 | GJ-23 | 144 | | 12.8 | | 40.1 | | 11.9 | | 352 | †† | 11.9 | | 15 | | 15.1 | †† | 209 | | 56.4 | | 18.3 | | 20.8 | |
| 52387 | DE-11 | 131 | | 14.7 | | 38.4 | | 13.6 | †† | 302 | | 11.7 | | 13.2 | †† | 11.8 | | 183 | | 45.3 | †† | 17.6 | | 23.5 | |
| 52491 | GI-23 | 150 | | 14.3 | | 39.6 | | 11.7 | | 297 | | | | 14.7 | | 11.9 | | 223 | | 54.5 | | 17.6 | | 22.7 | |
| 52494 | GG-23 | 134 | | 12.7 | | 35.6 | | 10.4 | | 262 | †† | | | 14 | | 11.6 | | 198 | | 49.3 | †† | 15.9 | | 21.4 | |
| 52495 | GI-24 | 156 | † | 14 | | 41.1 | | 11.4 | | 291 | | 12.2 | | 14.5 | | 11.6 | | 233 | | 57.9 | | 19 | | 26.3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52565 | DN-23 | 130 | | 11 | †† | 35 | | 10 | | 277 | † | | | 13.8 | † | 11.5 | | 200 | | 53 | | 16 | | 21 | |
| 52610 | DE-24 | 140 | | 14 | | 38 | | 11 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 141 | | 12 | | 38.8 | | 9.97 | | 281 | | 11.8 | | 14.5 | | 11.3 | | 187 | | 52.2 | | 17.2 | | 23.5 | |
| 52639 | DE-38 | | | | | | | | | | | | | | | | | 207 | | 44 | †† | 23 | †† | 18 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Molybdenum (µg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-24 | 6120 | | 266 | †† | 1380 | | 1110 | | 1050 | | 3080 | | 483 | | 2320 | | 9060 | | 287 | | 93 | | 159 | |
| 8888 | DE-24 | 6020 | | 227 | | 1400 | | 1200 | | 1070 | | 3210 | | 512 | | 2410 | | 9300 | | 308 | | 105 | †† | 189 | |
| 10156 | GI-23 | 6340 | | 805 | †† | 1750 | †† | 1530 | †† | | | | | | | | | | | | | | | | |
| 10173 | DN-24 | 6290 | | 361 | †† | 1490 | | 1220 | | 1020 | | 3170 | | 509 | | 2450 | | 10200 | | 308 | | 96.6 | | 170 | |
| 11079 | DE-23 | 5240 | †† | 176 | †† | 1280 | | 1080 | | | | | | | | | | 10800 | †† | 357 | †† | 109 | †† | 199 | †† |
| 20204 | GJ-23 | 5810 | | 252 | | 1340 | | 652 | †† | 968 | †† | 2700 | †† | 745 | †† | 2130 | | 7100 | †† | 291 | | 51.5 | †† | 126 | †† |
| 21088 | DE-23 | 5460 | | 220 | | 1320 | | 1200 | | 1110 | | 2540 | †† | 445 | | 2590 | †† | 9120 | | 285 | | 120 | †† | 137 | †† |
| 21100 | DE-24 | 6840 | †† | 31.5 | †† | 1420 | | 1050 | | 1070 | | 3310 | | 505 | | 2500 | | 9890 | | 299 | | 85.9 | | 164 | |
| 21178 | DE-24 | 5950 | | 239 | | 1400 | | 1130 | | | | | | | | | | | | | | | | | |
| 21229 | GI-24 | 5970 | | 225 | | 1330 | | 1090 | | 1030 | | 2730 | | 425 | | 2330 | | 9800 | | 291 | | 83.4 | | 162 | |
| 21230 | DE-24 | 7430 | †† | 280 | †† | 1650 | †† | 1380 | †† | 1070 | | 3350 | | 462 | | 2360 | | 9320 | | 277 | | 92.5 | | 168 | |
| 50004 | DE-24 | 4420 | †† | 626 | †† | 1130 | | 933 | | 952 | †† | 2900 | | 496 | | 2080 | †† | 9170 | | 357 | †† | 103 | | 149 | |
| 50005 | DE-24 | 6110 | | 231 | | 1410 | | 1100 | | 1070 | | 3180 | | 454 | | 2310 | | 6080 | †† | 280 | | 137 | †† | 236 | †† |
| 50011 | DE-24 | 5440 | | 212 | | 1230 | | 973 | | 1010 | | 3000 | | 457 | | 2260 | | 9860 | | 289 | | 99.2 | | 161 | |
| 50012 | DN-24 | 5820 | | 223 | | 1310 | | 1090 | | 1090 | | 3180 | | 487 | | 2420 | | 9730 | | 291 | | 96 | | 176 | |
| 50014 | DE-24 | 5760 | | 243 | | 1440 | | 1150 | | 1050 | | 3210 | | 510 | | 2430 | | 9070 | | 283 | | 88.9 | | 173 | |
| 50018 | DE-24 | 5990 | | 226 | | 1320 | | 1160 | | 1040 | | 3100 | | 485 | | 2390 | | 9410 | | 287 | | 91 | | 189 | |
| 50020 | GI-23 | 5840 | | | | | | | | 2500 | †† | | | | | | | 9140 | | | | | | | |
| 50024 | GJ-24 | 5150 | †† | 218 | | 1190 | | 959 | | 1050 | | 2960 | | 462 | | 2240 | | 9270 | | 317 | | 94 | | 168 | |
| 50027 | DN-24 | 5830 | | 220 | | 1300 | | 1060 | | 1000 | | 2880 | | 443 | | 2260 | | 9520 | | 278 | | 93 | | 168 | |
| 50029 | AD-23 | 5850 | | 215 | | 1280 | | 1140 | | 1000 | | 3560 | †† | 427 | | 2580 | †† | 9180 | | 288 | | 39.9 | †† | 114 | †† |
| 50037 | DE-24 | 5990 | | 224 | | 1320 | | 1160 | | 1040 | | 3100 | | 483 | | 2390 | | 9410 | | 289 | | 92 | | 188 | |
| 52491 | GI-24 | 5420 | | 196 | | 1210 | | 957 | | | | | | | | | | 9400 | | 273 | | 83 | | 148 | |
| 52495 | GI-24 | 6140 | | 235 | | 1400 | | 1180 | | 1020 | | 3100 | | 476 | | 2320 | | 9530 | | 290 | | 92.9 | | 177 | |
| 52565 | DN-24 | 5000 | †† | 170 | †† | 1100 | | 800 | †† | 1150 | †† | | | 500 | | 2250 | | 7900 | †† | 280 | | 123 | †† | 176 | |
| 52610 | DE-24 | 5700 | | 220 | | 1300 | | 1050 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | | | | | | | | | 654 | †† | 3070 | | 691 | †† | 2430 | | 7010 | †† | 995 | †† | 625 | †† | 874 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Nitrogen (%w/w) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | CA-37 | 3.81 | | 2.12 | | 1.63 | | 4.4 | | 1.95 | | 4.53 | | 1.57 | | 3.7 | | 5.52 | | 3.51 | | 1.93 | | 1.34 | |
| 8888 | CA-37 | 3.65 | | 2.01 | | 1.55 | | 4.43 | | 2.51 | †† | 4.67 | | 1.62 | | 3.71 | | 5.26 | | 3.32 | † | 1.88 | | 1.29 | |
| 10156 | CA-37 | | | | | | | | | | | | | | | | | 5.21 | † | 3.3 | † | 1.9 | | 1.27 | |
| 10173 | CA-37 | 3.91 | † | 2.19 | | 1.71 | | 4.53 | | 1.89 | | 4.37 | | 1.53 | | 3.51 | | 5.3 | | 3.44 | | 1.89 | | 1.34 | |
| 10181 | CA-37 | 3.82 | | 2.16 | | 1.67 | | 4.5 | | 2.02 | | 4.72 | | 1.66 | | 3.83 | | 5.57 | | 3.54 | | 1.96 | | 1.39 | |
| 10181 | GF-31 | 3.65 | | 2.09 | | 1.62 | | 4.22 | | 1.93 | | 4.6 | | 1.62 | | 3.86 | | 5.23 | † | 3.4 | | 1.76 | †† | 1.36 | |
| 11079 | CA-37 | | | | | | | | | | | | | | | | | 5.63 | | 3.56 | | 2.01 | | 1.42 | |
| 20204 | CA-37 | 3.65 | | 2.05 | | 1.58 | | 4.18 | | 1.93 | | 4.46 | | 1.55 | | 3.61 | | 5.4 | | 3.39 | | 1.91 | | 1.28 | |
| 21043 | CA-37 | 3.84 | | 2.17 | | 1.67 | | 4.52 | | 2.03 | | 4.73 | | 1.67 | | 3.88 | | 5.61 | | 3.53 | | 1.93 | | 1.36 | |
| 21088 | CA-37 | 3.5 | †† | 2 | | 1.5 | | 4.1 | | 1.9 | | 4.3 | † | 1.5 | | 3.5 | | 5.5 | | 3.4 | | 1.82 | †† | 1.24 | |
| 21100 | CA-37 | 3.91 | † | 2.19 | | 1.66 | | 4.52 | | 2 | | 4.69 | | 1.61 | | 4.06 | †† | 5.48 | | 3.57 | | 1.99 | | 1.35 | |
| 21190 | GE-38 | 3.3 | †† | 1.94 | †† | 1.39 | †† | 3.89 | †† | | | | | | | | | | | | | | | | |
| 21229 | GE-31 | 3.6 | † | 2.08 | | 1.58 | | 4.33 | | 1.92 | | 4.34 | | 1.58 | | 3.7 | | 5.22 | † | 3.5 | | 1.98 | | 1.44 | |
| 21229 | CA-37 | 3.74 | | 2.1 | | 1.62 | | 4.24 | | 1.97 | | 4.43 | | 1.63 | | 3.72 | | 5.33 | | 3.53 | | 2 | | 1.52 | †† |
| 21230 | CA-37 | 3.66 | | 2.03 | | 1.55 | | 4.3 | | 2.48 | †† | 4.53 | | 1.72 | | 3.93 | | 5.44 | | 3.47 | | 1.93 | | 1.35 | |
| 21232 | CA-37 | 3.42 | †† | 1.94 | †† | 1.52 | | 4.07 | † | 1.93 | | 4.56 | | 1.55 | | 3.57 | | 5.16 | †† | 3.37 | | 1.89 | | 1.33 | |
| 21234 | GE-32 | 3.74 | | 2.17 | | 1.67 | | 4.46 | | | | | | | | | | 4.75 | †† | 3.05 | †† | 1.63 | †† | 1.03 | †† |
| 50004 | CA-37 | 3.79 | | 2.08 | | 1.66 | | 4.32 | | 1.99 | | 4.49 | | 1.59 | | 3.77 | | 5.38 | | 3.49 | | 1.92 | | 1.32 | |
| 50005 | CA-37 | 3.74 | | 2.09 | | 1.61 | | 4.31 | | 1.99 | | 4.6 | | 1.57 | | 3.7 | | 5.49 | | 3.46 | | 1.93 | | 1.29 | |
| 50008 | CA-27 | 3.77 | | 2.13 | | 1.65 | | 4.4 | | 2 | | 4.63 | | 1.64 | | 3.79 | | 5.51 | | 3.52 | | 1.93 | | 1.38 | |
| 50011 | CA-37 | 3.74 | | 2.14 | | 1.64 | | 4.25 | | 1.98 | | 4.64 | | 1.62 | | 3.75 | | 5.47 | | 3.48 | | 1.92 | | 1.35 | |
| 50012 | CA-37 | 3.72 | | 2.1 | | 1.59 | | 4.27 | | 1.98 | | 4.59 | | 1.63 | | 3.77 | | 5.47 | | 3.5 | | 1.94 | | 1.37 | |
| 50014 | CA-37 | 3.86 | | 2.18 | | 1.69 | | 4.49 | | 2.03 | | 4.79 | | 1.69 | | 3.91 | | 5.51 | | 3.54 | | 1.96 | | 1.39 | |
| 50017 | CA-37 | 3.89 | † | 2.17 | | 1.72 | | 4.69 | †† | 1.99 | | 4.68 | | 1.6 | | 3.74 | | 5.54 | | 3.55 | | 3.55 | †† | 44.1 | †† |
| 50018 | CA-37 | 3.75 | | 2.12 | | 1.63 | | 4.39 | | 2 | | 4.63 | | 1.63 | | 3.73 | | 5.47 | | 3.49 | | 1.93 | | 1.35 | |
| 50020 | CA-37 | 3.79 | | 2.1 | | 1.63 | | 4.47 | | 2.02 | | 4.77 | | 1.67 | | 3.89 | | 5.43 | | 3.46 | | 1.9 | | 1.32 | |
| 50024 | CA-37 | 3.74 | | 2.1 | | 1.64 | | 4.3 | | 2.02 | | 4.59 | | 1.61 | | 3.75 | | 5.56 | | 3.54 | | 2.06 | †† | 1.37 | |
| 50027 | CA-37 | 3.73 | | 2.1 | | 1.6 | | 4.27 | | 1.99 | | 4.45 | | 1.56 | | 3.59 | | 5.42 | | 3.4 | | 1.95 | | 1.29 | |
| 50029 | CA-37 | 3.67 | | 2.06 | | 1.57 | | 4.14 | | 1.93 | | 4.45 | | 1.57 | | 3.62 | | 5.32 | | 3.42 | | 1.92 | | 1.27 | |
| 50037 | CA-37 | 3.76 | | 2.13 | | 1.62 | | 4.4 | | 1.99 | | 4.64 | | 1.62 | | 3.74 | | 5.47 | | 3.48 | | 1.92 | | 1.36 | |
| 52283 | CA-37 | 3.75 | | 2.15 | | 1.67 | | 4.28 | | 2.04 | | 4.67 | | 1.65 | | 3.82 | | 5.38 | | 3.46 | | 2.1 | †† | 1.64 | †† |
| 52387 | CA-37 | 3.12 | †† | 1.74 | †† | 1.5 | | 3.69 | †† | 1.69 | †† | 3.73 | †† | 1.63 | | 3.28 | †† | 5.38 | | 3.25 | †† | 1.98 | | 1.2 | † |
| 52491 | CA-37 | 3.77 | | 2.11 | | 1.62 | | 4.31 | | 1.95 | | | | 1.53 | | 3.64 | | 5.55 | | 3.49 | | 1.95 | | 1.3 | |
| 52494 | CA-37 | 3.7 | | 2.08 | | 1.57 | | 4.25 | | 1.96 | | | | 1.54 | | 3.64 | | 5.36 | | 3.35 | | 1.88 | | 1.28 | |
| 52495 | CA-37 | 3.78 | | 2.13 | | 1.71 | | 4.39 | | 2.01 | | 4.56 | | 1.63 | | 3.74 | | 5.44 | | 3.51 | | 1.99 | | 1.41 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52565 | CA-37 | 3.8 | | 2.2 | | 1.7 | | 4.4 | | 1.7 | †† | | | 1.2 | †† | 3.35 | †† | 5.23 | † | 3.22 | †† | 1.71 | †† | 1.1 | †† |
| 52636 | CA-37 | 3.71 | | 2.13 | | 1.67 | | 4.29 | | 1.66 | †† | 1.33 | †† | 1.3 | †† | 3.31 | †† | 5.22 | † | 3.27 | †† | 1.8 | †† | 1.34 | |
| 52639 | CA-37 | | | | | | | | | | | | | | | | | 5.53 | | 3.61 | | 1.98 | | 1.78 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Nitrate Nitrogen (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | BA-31 | 3510 | | 68.3 | | 45.9 | | 1.14 | | 0.2 | † | 0.001 | | 0.001 | | 0.001 | | 9510 | | 0.001 | | 0.001 | | 0.001 | |
| 10173 | BB-31 | 3520 | | 56 | | 55.8 | | 38.4 | †† | | | | | | | | | 9820 | | 11.8 | | 19.2 | | 28.7 | †† |
| 20204 | BB-30 | 3460 | | 75 | | 60 | | 2860 | †† | 3.5 | | 3 | | 40.2 | †† | 2.5 | | 25000 | †† | 5 | | 4 | | 3 | |
| 21088 | BB-31 | 3450 | | 51 | † | 30 | †† | 24 | †† | | | | | | | | | 10200 | | 10 | | 6 | | 1 | |
| 21100 | BB-31 | 5580 | †† | 79.2 | | 56.6 | | 5.48 | | 20.9 | †† | 24.6 | †† | 0.703 | | 5.85 | | 8730 | | 44.5 | †† | 10.5 | | 1.18 | |
| 21229 | BB-31 | 3090 | | 76.1 | | 62 | | 6.5 | | 9.14 | † | 19.4 | †† | 13.1 | † | 2.7 | | 9030 | | 8.5 | | 17.2 | | 2.7 | |
| 21232 | BB-31 | 3180 | | 65.3 | | 50.5 | | 5.6 | | 6.3 | † | 4.9 | | 4.52 | | 5.42 | | 9150 | | 6.53 | | 9.03 | | 3.85 | |
| 50005 | BB-31 | 3320 | | 72.4 | | 57.1 | | 3.98 | | 3.14 | | 5.72 | | 2.12 | | 5.02 | | 17800 | †† | 6 | | 10.6 | | 5.11 | |
| 50011 | BB-31 | 2970 | | 70.3 | | 59.1 | | 4.14 | | 18.1 | †† | 27.9 | †† | 7.76 | | 15.1 | †† | 9040 | | 7.68 | | 6.94 | | 0.858 | |
| 50012 | BB-31 | 3380 | | 64.5 | | 51 | | 1.69 | | 2.53 | | 7.32 | | 0.296 | | 1.63 | | 8290 | | 4.6 | | 8.03 | | 0.701 | |
| 50017 | BB-31 | 3240 | | 68.9 | | 52.4 | | 5.48 | | | | | | | | | | | | | | | | | |
| 50020 | BA-31 | 2470 | †† | | | | | | | 50 | †† | | | | | | | | | | | | | | |
| 50025 | BB-31 | 42500 | †† | 1100 | †† | 1200 | †† | 450 | †† | 67 | †† | 75 | †† | 102 | †† | 104 | †† | 9500 | | 55 | †† | 62.5 | †† | 67.5 | †† |
| 50027 | BB-31 | 3160 | | 71 | | 35 | | 0.5 | | 3 | | 3 | | 1 | | 3 | | 8380 | | 5 | | 5 | | 7 | † |
| 50029 | BB-31 | 3340 | | 53.3 | † | 39.8 | | 0.5 | | 4.01 | | 2.47 | | 3.86 | | 0.464 | | 9150 | | 3.16 | | 2.93 | | 3.13 | |
| 50032 | BB-31 | | | | | | | | | | | | | | | | | 3380 | †† | 3.17 | | 11.7 | | 1.78 | |
| 52494 | BA-31 | 3050 | | 66.3 | | 47.6 | | 2.1 | | 3.73 | | | | 0.222 | | 1.72 | | 8260 | | 3.02 | | 3.61 | | 0.72 | |
| 52565 | BA-31 | 2500 | †† | 90 | †† | 47 | | 11 | | 19.5 | †† | | | 16 | † | 17.5 | †† | 7500 | | 6.6 | | 0.1 | | 0.1 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Phosphorus (%w/w) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 0.309 | | 0.307 | | 0.397 | | 0.328 | | 0.135 | | 0.334 | | 0.245 | | 0.387 | | 0.781 | | 0.574 | | 0.175 | | 0.351 | |
| 8888 | DE-23 | 0.312 | | 0.306 | | 0.391 | | 0.329 | | 0.143 | | 0.355 | | 0.263 | | 0.403 | | 0.737 | | 0.523 | | 0.17 | | 0.324 | |
| 10156 | GI-23 | 0.312 | | 0.307 | | 0.378 | | 0.303 | | | | | | | | | | 0.794 | | 0.53 | | 0.176 | | 0.321 | |
| 10173 | DN-24 | 0.321 | | 0.334 | †† | 0.389 | | 0.321 | | 0.148 | †† | 0.349 | | 0.252 | | 0.414 | | 0.837 | | 0.563 | | 0.197 | | 0.349 | |
| 10181 | GF-31 | 0.325 | | 0.305 | | 0.405 | | 0.327 | | 0.136 | | 0.36 | | 0.255 | | 0.409 | | 0.84 | | 0.602 | | 0.19 | | 0.396 | † |
| 11079 | DE-23 | 0.279 | †† | 0.293 | † | 0.372 | | 0.311 | | | | | | | | | | 0.814 | | 0.579 | | 0.186 | | 0.381 | |
| 20204 | GJ-23 | 0.318 | | 0.309 | | 0.391 | | 0.325 | | 0.134 | | 0.322 | | 0.229 | | 0.37 | | 0.762 | | 0.54 | | 0.173 | | 0.327 | |
| 21043 | GJ-23 | 0.27 | †† | 0.299 | | 0.369 | | 0.328 | | 0.123 | † | 0.291 | | 0.22 | | 0.332 | | 0.756 | | 0.529 | | 0.179 | | 0.347 | |
| 21088 | DE-23 | 0.243 | †† | 0.235 | †† | 0.298 | †† | 0.267 | †† | 0.139 | | 0.292 | | 0.217 | | 0.447 | † | 0.755 | | 0.49 | † | 0.155 | † | 0.312 | |
| 21100 | DE-24 | 0.302 | | 0.295 | | 0.351 | | 0.308 | | 0.139 | | 0.339 | | 0.236 | | 0.392 | | 0.859 | | 0.583 | | 0.179 | | 0.377 | |
| 21178 | DE-23 | 0.283 | † | 0.278 | †† | 0.356 | | 0.283 | † | | | | | | | | | | | | | | | | |
| 21190 | GE-30 | 0.302 | | 0.281 | † | 0.372 | | 0.302 | | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 0.312 | | 0.308 | | 0.387 | | 0.31 | | 0.133 | | 0.307 | | 0.226 | | 0.352 | | 0.885 | | 0.555 | | 0.191 | | 0.337 | |
| 21230 | DE-23 | 0.218 | †† | 0.211 | †† | 0.281 | †† | 0.237 | †† | 0.122 | †† | 0.305 | | 0.211 | | 0.346 | | 0.669 | | 0.483 | †† | 0.15 | †† | 0.302 | |
| 21232 | DE-23 | 0.302 | | 0.295 | | 0.371 | | 0.311 | | 0.132 | | 0.325 | | 0.238 | | 0.367 | | 0.752 | | 0.545 | | 0.176 | | 0.333 | |
| 21234 | GE-30 | 0.352 | †† | 0.354 | †† | 0.454 | †† | 0.365 | †† | | | | | | | | | 0.967 | †† | 0.685 | †† | 0.216 | †† | 0.384 | |
| 50004 | DE-23 | 0.326 | | 0.315 | | 0.397 | | 0.311 | | 0.135 | | 0.329 | | 0.225 | | 0.378 | | 0.817 | | 0.535 | | 0.173 | | 0.308 | |
| 50005 | DE-23 | 0.311 | | 0.311 | | 0.384 | | 0.315 | | 0.132 | | 0.343 | | 0.248 | | 0.385 | | 0.781 | | 0.553 | | 0.179 | | 0.331 | |
| 50008 | GJ-23 | 0.306 | | 0.305 | | 0.377 | | 0.314 | | 0.134 | | 0.328 | | 0.236 | | 0.375 | | 0.79 | | 0.557 | | 0.182 | | 0.35 | |
| 50011 | DE-23 | 0.297 | | 0.301 | | 0.384 | | 0.318 | | 0.139 | | 0.334 | | 0.253 | | 0.387 | | 0.723 | | 0.548 | | 0.187 | | 0.357 | |
| 50012 | DN-23 | 0.357 | †† | 0.349 | †† | 0.432 | †† | 0.355 | †† | 0.153 | †† | 0.381 | | 0.279 | | 0.435 | | 0.942 | † | 0.671 | †† | 0.22 | †† | 0.424 | †† |
| 50014 | DE-23 | 0.321 | | 0.318 | | 0.402 | | 0.331 | | 0.14 | | 0.358 | | 0.266 | | 0.414 | | 0.83 | | 0.59 | | 0.193 | | 0.393 | † |
| 50017 | DE-23 | 0.306 | | 0.303 | | 0.39 | | 0.318 | | 0.131 | | 0.335 | | 0.243 | | 0.372 | | 7.31 | †† | 0.532 | | 0.167 | | 0.373 | |
| 50018 | DE-23 | 0.306 | | 0.308 | | 0.39 | | 0.322 | | 0.133 | | 0.334 | | 0.248 | | 0.385 | | 0.745 | | 0.547 | | 0.173 | | 0.342 | |
| 50020 | GI-23 | 0.33 | | 0.33 | † | 0.395 | | 0.33 | | 0.145 | † | 0.365 | | 0.27 | | 0.425 | | 0.895 | | 0.56 | | 0.2 | | 0.37 | |
| 50024 | GJ-23 | 0.296 | | 0.285 | † | 0.367 | | 0.293 | | 0.133 | | 0.316 | | 0.235 | | 0.362 | | 0.793 | | 0.55 | | 0.177 | | 0.333 | |
| 50025 | GJ-23 | 0.306 | | 0.307 | | 0.394 | | 0.302 | | 0.14 | | 0.307 | | 0.225 | | 0.366 | | 0.907 | | 0.675 | †† | 0.22 | †† | 0.431 | †† |
| 50027 | DN-24 | 0.309 | | 0.308 | | 0.366 | | 0.297 | | 0.131 | | 0.314 | | 0.225 | | 0.363 | | 0.798 | | 0.534 | | 0.182 | | 0.324 | |
| 50029 | AD-23 | 0.309 | | 0.318 | | 0.403 | | 0.336 | | 0.133 | | 0.343 | | 0.248 | | 0.391 | | 0.889 | | 0.587 | | 0.189 | | 0.373 | |
| 50032 | DE-30 | | | | | | | | | | | | | | | | | 1.24 | †† | 0.539 | | 0.169 | | 0.337 | |
| 50037 | DE-23 | 0.306 | | 0.307 | | 0.389 | | 0.321 | | 0.132 | | 0.333 | | 0.249 | | 0.383 | | 0.746 | | 0.545 | | 0.174 | | 0.343 | |
| 52283 | GJ-23 | 0.311 | | 0.309 | | 0.391 | | 0.322 | | 0.142 | | 0.198 | †† | 0.246 | | 0.297 | †† | 0.789 | | 0.546 | | 0.186 | | 0.341 | |
| 52387 | DE-30 | 0.303 | | 0.302 | | 0.37 | | 0.31 | | 0.132 | | 0.307 | | 0.236 | | 0.351 | | 0.798 | | 0.512 | | 0.249 | †† | 0.33 | |
| 52491 | GI-23 | 0.318 | | 0.309 | | 0.386 | | 0.313 | | 0.138 | | | | 0.241 | | 0.383 | | 0.868 | | 0.587 | | 0.198 | | 0.354 | |
| 52494 | GG-23 | 0.313 | | 0.307 | | 0.376 | | 0.302 | | 0.112 | †† | | | 0.212 | | 0.349 | | 0.783 | | 0.52 | | 0.176 | | 0.317 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52495 | GI-24 | 0.318 | | 0.317 | | 0.384 | | 0.322 | | 0.132 | | 0.332 | | 0.228 | | 0.365 | | 0.867 | | 0.567 | | 0.195 | | 0.345 | |
| 52565 | DN-23 | 0.35 | †† | 0.33 | † | 0.42 | | 0.33 | | 0.135 | | | | 0.27 | | 0.41 | | 0.81 | | 0.57 | | 0.18 | | 0.35 | |
| 52610 | GG-23 | 0.29 | | 0.27 | †† | 0.37 | | 0.31 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 0.302 | | 0.294 | | 0.355 | | 0.272 | †† | 0.142 | | 0.351 | | 0.247 | | 0.402 | | 0.747 | | 0.557 | | 0.19 | | 0.353 | |
| 52639 | DE-38 | | | | | | | | | | | | | | | | | 0.629 | †† | 0.429 | †† | 0.143 | †† | 0.23 | †† |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Potassium (%w/w) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 5.13 | | 1.7 | | 1.95 | | 1.09 | | 0.641 | | 0.855 | | 0.18 | | 1.07 | | 5.52 | | 2.02 | | 0.918 | | 0.297 | |
| 8888 | DE-23 | 4.95 | | 1.69 | | 1.93 | | 1.09 | | 0.626 | | 0.831 | | 0.18 | | 1.03 | | 5.03 | | 1.87 | | 0.872 | | 0.277 | |
| 10156 | GI-23 | 4.83 | | 1.64 | | 1.84 | | 1.05 | | | | | | | | | | 5.11 | | 1.87 | | 0.838 | | 0.269 | |
| 10173 | DN-24 | 4.94 | | 1.68 | | 1.89 | | 1.08 | | 0.651 | | 0.871 | | 0.169 | | 1.1 | | 5.51 | | 2.01 | | 0.926 | | 0.321 | |
| 10181 | GF-23 | 5.28 | † | 1.76 | †† | 2.03 | †† | 1.13 | | 0.702 | †† | 0.954 | †† | 0.206 | †† | 1.2 | †† | | | | | | | | |
| 11079 | DE-23 | 4.62 | | 1.65 | | 1.85 | | 1.05 | | | | | | | | | | 5.17 | | 0.322 | †† | 0.307 | †† | 0.147 | †† |
| 20204 | GJ-23 | 4.68 | | 1.66 | | 1.85 | | 0.991 | | 0.598 | | 0.732 | † | 0.245 | †† | 0.899 | | 5.43 | | 1.95 | | 0.911 | | 0.252 | |
| 21043 | GJ-23 | 4.29 | † | 1.62 | | 1.78 | | 1.08 | | 0.575 | | 0.749 | | 0.16 | | 0.942 | | 5.11 | | 1.83 | | 0.868 | | 0.284 | |
| 21088 | DE-23 | 4.22 | †† | 1.52 | | 1.63 | †† | 0.997 | | 0.561 | † | 0.623 | †† | 0.134 | †† | 0.992 | | 5.25 | | 1.77 | | 0.787 | | 0.267 | |
| 21100 | DE-24 | 4.76 | | 1.56 | | 1.81 | | 1.11 | | 0.602 | | 0.861 | | 0.186 | | 1.23 | †† | 5.36 | | 2.14 | † | 0.879 | | 0.251 | |
| 21178 | DE-23 | 4.57 | | 1.64 | | 1.83 | | 1.01 | | | | | | | | | | | | | | | | | |
| 21190 | GE-09 | 4.43 | | 1.41 | †† | 1.63 | †† | 0.895 | | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 4.81 | | 1.57 | | 1.83 | | 1.01 | | 0.616 | | 0.839 | | 0.175 | | 1.01 | | 5.05 | | 1.96 | | 0.882 | | 0.286 | |
| 21230 | DE-23 | 3.53 | †† | 1.34 | †† | 1.46 | †† | 0.705 | †† | 0.532 | †† | 0.71 | †† | 0.148 | † | 0.902 | | 4.75 | | 1.88 | | 0.901 | | 0.299 | |
| 21232 | DE-23 | 4.57 | | 1.64 | | 1.57 | †† | 0.991 | | 0.611 | | 0.818 | | 0.166 | | 0.971 | | 5.06 | | 1.45 | †† | 0.978 | | 0.27 | |
| 21234 | GH-20 | 4.42 | † | 1.49 | †† | 1.65 | †† | 1.01 | | | | | | | | | | 5.11 | | 1.83 | | 0.989 | † | 0.392 | †† |
| 50004 | DE-23 | 5.13 | | 1.72 | | 1.91 | | 1.04 | | 0.608 | | 0.829 | | 0.171 | | 1.02 | | 5.22 | | 1.9 | | 0.853 | | 0.268 | |
| 50005 | DE-23 | 4.87 | | 1.62 | | 1.87 | | 1.04 | | 0.614 | | 0.834 | | 0.187 | | 1.02 | | 5.57 | | 1.92 | | 0.859 | | 0.249 | |
| 50008 | GJ-23 | 4.8 | | 1.65 | | 1.83 | | 1.01 | | 0.637 | | 0.843 | | 0.176 | | 1.03 | | 5.44 | | 1.95 | | 0.9 | | 0.297 | |
| 50011 | DE-23 | 4.71 | | 1.61 | | 1.86 | | 1.03 | | 0.644 | | 0.841 | | 0.183 | | 1.06 | | 5.21 | | 2 | | 0.981 | | 0.311 | |
| 50012 | DN-23 | 4.76 | | 1.59 | | 1.87 | | 1.1 | | 0.635 | | 0.872 | | 0.166 | | 1.07 | | 5.16 | | 2.07 | | 0.927 | | 0.285 | |
| 50014 | DE-23 | 5.14 | | 1.68 | | 1.92 | | 1.06 | | 0.621 | | 0.862 | | 0.178 | | 1.09 | | 5.53 | | 2.03 | | 0.917 | | 0.307 | |
| 50017 | DE-23 | 4.48 | | 1.47 | †† | 1.65 | †† | 0.942 | | 0.608 | | 0.803 | | 0.168 | | 0.988 | | 4.5 | †† | 1.84 | | 0.785 | | 0.338 | †† |
| 50018 | DE-23 | 4.86 | | 1.63 | | 1.81 | | 0.97 | | 0.613 | | 0.831 | | 0.171 | | 1.03 | | 5.27 | | 1.93 | | 0.932 | | 0.286 | |
| 50020 | GI-23 | 4.84 | | 1.62 | | 1.88 | | 1.02 | | 0.64 | | 0.91 | | 0.19 | † | 1.15 | | 5.23 | | 1.79 | | 0.91 | | 0.28 | |
| 50024 | GJ-23 | 4.92 | | 1.62 | | 1.84 | | 1.01 | | 0.612 | | 0.797 | | 0.17 | | 0.991 | | 5.47 | | 1.88 | | 0.883 | | 0.277 | |
| 50025 | GJ-23 | 4.1 | †† | 1.6 | | 1.81 | | 1.04 | | 0.666 | † | 0.887 | | 0.206 | †† | 1.1 | | 3.55 | †† | 1.9 | | 0.896 | | 0.326 | |
| 50027 | DN-24 | 4.87 | | 1.62 | | 1.92 | | 1.06 | | 0.615 | | 0.866 | | 0.182 | | 1.08 | | 5.21 | | 1.97 | | 0.894 | | 0.292 | |
| 50029 | AD-23 | 4.88 | | 1.59 | | 1.81 | | 0.9 | | 0.599 | | 0.758 | | 0.148 | † | 0.938 | | 5.6 | | 1.86 | | 0.797 | | 0.19 | †† |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 5.3 | | 1.58 | †† | 0.881 | | 0.275 | |
| 50037 | DE-23 | 4.84 | | 1.62 | | 1.82 | | 0.968 | | 0.614 | | 0.83 | | 0.17 | | 1.02 | | 5.29 | | 1.94 | | 0.934 | | 0.287 | |
| 52283 | GJ-23 | 4.83 | | 1.63 | | 1.85 | | 1.03 | | 0.647 | | 0.698 | †† | 0.749 | †† | 0.805 | †† | 3.47 | †† | 1.96 | | 0.867 | | 0.255 | |
| 52387 | DE-09 | 3.67 | †† | 1.36 | †† | 1.58 | †† | 0.932 | | 0.624 | | 0.769 | | 0.143 | † | 0.97 | | 4.98 | | 2.65 | †† | 1.14 | †† | 0.209 | †† |
| 52491 | GI-23 | 5.09 | | 1.69 | | 1.92 | | 1.03 | | 0.643 | | | | 0.173 | | 1.06 | | 3.55 | †† | 1.94 | | 0.887 | | 0.283 | |
| 52494 | GG-23 | 4.78 | | 1.62 | | 1.81 | | 0.984 | | 0.533 | †† | | | 0.148 | † | 0.987 | | 5.23 | | 1.85 | | 0.856 | | 0.271 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52495 | GI-24 | 5.29 | † | 1.75 | †† | 1.98 | | 1.11 | | 0.61 | | 0.854 | | 0.169 | | 1.06 | | 5.73 | | 2.09 | | 0.979 | | 0.31 | |
| 52565 | DN-23 | 4.2 | †† | 1.4 | †† | 1.6 | †† | 0.96 | | 0.62 | | | | 0.17 | | 0.985 | | 4.9 | | 2.2 | †† | 0.8 | | 0.3 | |
| 52610 | GG-23 | 4.29 | † | 1.34 | †† | 1.67 | † | 0.94 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 4.78 | | 1.59 | | 1.78 | | 0.913 | | 0.551 | †† | 0.725 | † | 0.172 | | 0.923 | | 4.57 | † | 1.77 | | 0.81 | | 0.272 | |
| 52639 | DE-38 | | | | | | | | | | | | | | | | | 4.95 | | 1.61 | †† | 0.877 | | 0.264 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Selenium (µg/kg) | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-24 | 651 | | 78 | | 73.5 | | 42.2 | | 7.34 | | 4510 | | 42.7 | | 921 | | 9.64 | | 119 | | 64.7 | | 13.6 | |
| 8888 | DE-24 | 751 | †† | 99 | | 83 | | 48 | | 30.2 | | 4660 | | 49.3 | | 958 | | | | 135 | | 73.3 | | | |
| 10156 | GI-23 | 888 | †† | | | 169 | †† | 280 | †† | | | | | | | | | | | | | | | | |
| 10173 | DN-24 | 667 | | 87.1 | | 67.3 | | 42.6 | | 6 | | 4180 | | 37.2 | | 849 | | 23.8 | | 105 | | 77.9 | | 12.6 | |
| 20204 | GJ-23 | 586 | | 90.5 | | 156 | †† | 246 | †† | 13 | | 109 | †† | 163 | †† | 1830 | †† | 621 | †† | 125 | | 845 | †† | 47.8 | †† |
| 21088 | DE-23 | 1390 | †† | 640 | †† | 900 | †† | 650 | †† | 200 | †† | 3030 | †† | 120 | †† | 770 | | 1050 | †† | 780 | †† | 1470 | †† | 560 | †† |
| 21100 | DE-24 | 557 | †† | 184 | †† | 1 | †† | 1 | †† | 93.5 | †† | 4850 | | 70 | †† | 1090 | | 153 | †† | 110 | | 242 | †† | 145 | †† |
| 21178 | DE-24 | 695 | | 94 | | 83.3 | | 58.1 | | | | | | | | | | | | | | | | | |
| 21229 | GI-24 | 651 | | 96.7 | | 85 | | 61.2 | | 22.9 | | 4390 | | 41.5 | | 944 | | 194 | †† | 206 | †† | 120 | †† | 39.7 | †† |
| 21230 | DE-24 | 665 | | 103 | | 113 | †† | 49.5 | | 36.8 | †† | 4140 | | 50.8 | | 926 | | 20.5 | | 111 | | 86.5 | | 20.5 | |
| 50004 | DE-24 | 625 | | 297 | †† | 165 | †† | 99 | †† | 9.32 | | 2240 | †† | 61.4 | | 466 | †† | 10.7 | | 125 | | 81.6 | | 13.8 | |
| 50005 | DE-24 | 673 | | 97.3 | | 80.2 | | 51.9 | | 13.7 | | 5460 | | 19.1 | †† | 729 | †† | 25.1 | | 126 | | 143 | †† | 51.4 | †† |
| 50011 | DE-24 | 643 | | 109 | | 85.5 | | 48.8 | | 14.4 | | 4680 | | 40 | | 973 | | 21.3 | | 122 | | 101 | | 23.2 | |
| 50012 | DN-24 | 652 | | 79 | | 75 | | 45 | | 14 | | 5010 | | 46 | | 1030 | | 42 | | 140 | | 91 | | 22 | |
| 50014 | DE-24 | 607 | | 70 | | 80 | | 48 | | 14.7 | | 4580 | | 54.3 | | 940 | | 11.9 | | 127 | | 70 | | 16.8 | |
| 50018 | DE-24 | 648 | | 94.6 | | 79.4 | | 19.8 | †† | 12.1 | | 5220 | | 43.3 | | 1420 | †† | 160 | †† | 121 | | 62.5 | | 11.2 | |
| 50020 | GI-23 | 25000 | †† | | | | | | | 25000 | †† | | | | | | | 20000 | †† | | | | | | |
| 50024 | GJ-24 | 662 | | 138 | †† | 131 | †† | 57 | | 19 | | 4290 | | 63 | | 903 | | 68 | | 78 | †† | 72 | | 12 | |
| 50027 | DN-24 | 622 | | 86 | | 80 | | 45 | | 10 | | 3820 | | 29 | | 765 | | 49 | | 113 | | 82 | | 22 | |
| 50037 | DE-24 | 647 | | 94.2 | | 79.1 | | 19.6 | †† | 12.3 | | 5220 | | 43.2 | | 1420 | †† | 161 | †† | 123 | | 62.4 | | 11.3 | |
| 52491 | GI-24 | 576 | | 70.5 | | 57.3 | †† | 57.1 | | | | | | | | | | 0.698 | | 112 | | 65.6 | | 51.3 | †† |
| 52495 | GI-24 | 695 | | 91.5 | | 76.5 | | 48.7 | | 10.2 | | 4620 | | 38.8 | | 927 | | 11.1 | | 127 | | 80.6 | | 17.2 | |
| 52565 | DN-24 | 277 | †† | 50 | †† | 50 | †† | 50 | | 28 | | | | 38 | | 68 | †† | 51 | | 94 | | 91 | | 7 | |
| 52610 | DE-24 | 625 | | 79 | | 72 | | 43 | | | | | | | | | | | | | | | | | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Silicon (%w/w) – Not Certified | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | **ASP 2102-1** | | **ASP 2102-2** | | **ASP 2102-3** | | **ASP 2102-4** | | **ASP 2105-1** | | **ASP 2105-2** | | **ASP 2105-3** | | **ASP 2105-4** | | **ASP 2108-1** | | **ASP 2108-2** | | **ASP 2108-3** | | **ASP 2108-4** | |
| 21088 | DE-24 | 0.044 | | 0.046 | | 0.074 | | 0.006 | | 0.06 | | 0.008 | | 0.007 | | 0.004 | † | 0.032 | | 0.032 | † | 0.053 | | 0.01 | |
| 21100 | DE-24 | 0.0353 | | 0.064 | | 0.077 | | 0.026 | †† | 0.0579 | | 0.051 | †† | 0.0559 | †† | 0.0566 | †† | 0.0279 | | 0.0309 | † | 0.0268 | | 0.0268 | |
| 21229 | ZZ-23 | 0.0355 | | 0.053 | | 1.04 | †† | 0.022 | †† | 0.096 | † | 0.021 | †† | 0.0173 | †† | 0.0102 | †† | 0.0374 | † | 0.0314 | † | 0.0732 | | 0.0264 | |
| 50004 | DE-23 | 0.055 | † | 0.054 | | 0.072 | | 0.001 | | 0.042 | | 0.005 | | 0.003 | | 0.001 | | 0.039 | † | 0.033 | † | 0.089 | | 0.015 | |
| 50005 | DE-23 | 0.0417 | | 0.050 | | 0.155 | | 0.001 | | 0.0554 | | 0.004 | | 0.00389 | | 0.00070 | | 0.0245 | | 0.0198 | | 0.0644 | | 0.00878 | |
| 50008 | ZZ-23 | 0.14 | † | 0.095 | †† | 1.25 | †† | 0.028 | †† | 0.303 | †† | 0.013 | †† | 0.017 | †† | 0.006 | †† | 0.066 | †† | 0.058 | †† | 0.15 | †† | 0.02 | |
| 50012 | DN-23 | 0.04 | | 0.04 | | 0.04 | | 0.002 | | 0.05 | | 0.005 | | 0.004 | | 0.0008 | | 390 | †† | 250 | †† | 590 | †† | 130 | †† |
| 50018 | DB-31 | 0.0431 | | 0.048 | | 0.103 | | 0.021 | †† | 0.0521 | | 0.003 | | 0.0026 | | 0.0014 | | 0.0241 | | 0.0191 | | 0.0457 | | 0.0048 | |
| 50020 | GI-23 | 0.003 | † | 0.002 | †† | 0.007 | | 0.001 | | 0.006 | †† | 0.003 | | 0.002 | | | | 0.008 | †† | 0.006 | † | 0.003 | | 0.003 | |
| 50024 | ZZ-23 | 0.126 | † | 0.092 | †† | 1.38 | †† | 0.004 | | 0.287 | †† | 0.009 | | 0.007 | | 0.003 | | 0.077 | †† | 0.06 | †† | 0.153 | †† | 0.018 | |
| 50032 | DE-31 | | | | | | | | | | | | | | | | | 0.024 | | 0.019 | | 0.044 | | 0.015 | |
| 50037 | DB-31 | 0.043 | | 0.047 | | 0.101 | | 0.02 | †† | 0.052 | | 0.003 | | 0.0028 | | 0.0013 | | 0.0238 | | 0.0193 | | 0.0456 | | 0.0049 | |
| 52565 | DN-23 | 0.03 | † | 0.04 | | 0.016 | | 0.001 | | 0.03 | † | | | 0.004 | | 0.001 | | 0.0241 | | 0.0185 | | 0.044 | | 0.0097 | |
| 52636 | DE-23 | 0.043 | | 0.037 | | 0.222 | † | 0.001 | | 0.068 | | 0.005 | | 0.005 | | 0.002 | | 0.03 | | 0.021 | | 0.071 | | 0.01 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Sodium (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 75 | | 279 | | 2190 | | 186 | | 221 | | 3.27 | | 6.05 | | 15.8 | | 233 | | 840 | | 237 | | 12.3 | |
| 8888 | DE-23 | 60 | | 270 | | 2150 | | 180 | | 245 | † | 20.7 | | 19.5 | † | 35.1 | †† | 211 | | 794 | | 214 | | | |
| 10156 | GI-23 | 40.6 | †† | 137 | †† | 1060 | †† | 89.8 | †† | | | | | | | | | 220 | | 767 | † | 208 | | 2.74 | †† |
| 10173 | DN-24 | 82 | | 271 | | 2130 | | 179 | | 210 | | 2.85 | | 5.6 | | 14.5 | | 236 | | 832 | | 233 | | 10.9 | |
| 11079 | DE-23 | 54.5 | | 233 | † | 1890 | | 140 | † | | | | | | | | | 280 | † | 898 | † | 270 | † | 16.6 | |
| 20204 | GJ-23 | 50 | | 308 | † | 0.226 | †† | 190 | | 0.0211 | †† | 0.004 | | 0.002 | | 0.001 | †† | 135 | †† | 822 | | 235 | | 9.5 | |
| 21043 | GJ-23 | 74.5 | | 348 | †† | 2000 | | 191 | | 221 | | 18.6 | | 17.8 | † | 30 | † | 251 | | 776 | | 265 | | 32.1 | †† |
| 21088 | DE-23 | 71 | | 470 | †† | 1920 | | 156 | | 234 | | 16 | | 11.6 | | 26 | | 283 | † | 807 | | 240 | | 31 | †† |
| 21100 | DE-24 | 61.6 | | 281 | | 2260 | | 200 | | 220 | | 3.42 | | 5.86 | | 17.1 | | 230 | | 869 | | 219 | | 16.2 | |
| 21178 | DE-23 | 69.5 | | 284 | | 2080 | | 169 | | | | | | | | | | | | | | | | | |
| 21190 | AD-09 | 95.2 | †† | 292 | | 2180 | | 177 | | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 67.4 | | 258 | | 2110 | | 178 | | 221 | | 11.6 | | 25.1 | †† | 17.6 | | 228 | | 831 | | 234 | | 13.1 | |
| 21230 | DE-23 | 62.2 | | 227 | †† | 1990 | | 120 | †† | 228 | | 19.9 | | 11.4 | | 20.9 | | 216 | | 849 | | 225 | | 13.3 | |
| 21232 | DE-23 | 66.7 | | 257 | | 1900 | | 150 | | 203 | | | | 3.33 | | 16.7 | | 240 | | 820 | | 233 | | 10 | |
| 50004 | DE-23 | 79 | | 283 | | 2200 | | 178 | | 222 | | 5.19 | | 9.93 | | 18.6 | | 236 | | 783 | | 224 | | 13.9 | |
| 50005 | DE-23 | 69.6 | | 276 | | 2120 | | 172 | | 210 | | 7.8 | | 7.5 | | 12.2 | | 244 | | 825 | | 236 | | 19 | |
| 50008 | GJ-23 | 74 | | 308 | † | 2030 | | 202 | | 241 | | 20.7 | | 22.1 | †† | 39.3 | †† | 237 | | 837 | | 235 | | 15.4 | |
| 50011 | DE-23 | 62 | | 274 | | 2170 | | 178 | | 228 | | 5.25 | | 8 | | 18.8 | | 243 | | 862 | | 258 | | 18 | |
| 50012 | DN-23 | 102 | †† | 338 | †† | 2350 | | 199 | | 247 | † | 7 | | 8 | | 22 | | 472 | †† | 1050 | †† | 305 | †† | 19 | |
| 50014 | DE-23 | 67 | | 277 | | 2200 | | 177 | | 210 | | 10 | | 10 | | 10 | | 240 | | 860 | | 240 | | 14.7 | |
| 50017 | DE-23 | 83.5 | | 308 | † | 2200 | | 171 | | 204 | | 11.1 | | 8.43 | | 19.3 | | 275 | | 827 | | 223 | | 26.3 | †† |
| 50018 | DE-23 | 68.5 | | 278 | | 2080 | | 146 | | 216 | | 11 | | 9.38 | | 19.4 | | 309 | †† | 832 | | 248 | | 13 | |
| 50020 | GI-23 | 84.3 | | 284 | | 2250 | | 187 | | 225 | | | | | | | | 257 | | 769 | † | 242 | | | |
| 50024 | GJ-23 | 58.6 | | 271 | | 2150 | | 177 | | 211 | | 2.88 | | 5.08 | | 13.4 | | 248 | | 829 | | 234 | | 10.6 | |
| 50025 | GJ-23 | 88 | | 247 | † | 1640 | †† | 159 | | 252 | †† | 98 | †† | 88 | †† | 102 | †† | 250 | | 660 | †† | 250 | | 100 | †† |
| 50027 | DN-24 | 62 | | 266 | | 2050 | | 172 | | 213 | | 0.1 | | 11 | | 14 | | 231 | | 810 | | 232 | | 12 | |
| 50029 | AD-23 | 88.7 | | 297 | | 2000 | | 188 | | 212 | | 19.8 | | 23.5 | †† | 27 | | 487 | †† | 751 | † | 338 | †† | 16 | |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 239 | | 812 | | 252 | | 26.3 | †† |
| 50037 | DE-23 | 68.8 | | 276 | | 2080 | | 147 | | 214 | | 10.9 | | 9.36 | | 19.4 | | 308 | †† | 834 | | 249 | | 13.1 | |
| 52283 | GJ-23 | 60.2 | | 292 | | 2090 | | 163 | | 220 | | 99.1 | †† | 51.9 | †† | 33 | †† | 283 | † | 817 | | 265 | | 12.5 | |
| 52387 | DE-09 | 109 | †† | 229 | †† | 1490 | †† | 171 | | 249 | †† | 11.1 | | 12.8 | | 12.6 | | 218 | | 677 | †† | 220 | | 30.8 | †† |
| 52491 | GI-23 | 63.7 | | 291 | | 2310 | | 194 | | 229 | | | | 5.53 | | 15.8 | | 243 | | 819 | | 234 | | 17.6 | |
| 52494 | GG-23 | 77.3 | | 321 | † | 2010 | | 168 | | 193 | †† | | | 7.89 | | 22.6 | | 252 | | 783 | | 240 | | 15.3 | |
| 52495 | GI-24 | 60.3 | | 281 | | 2280 | | 188 | | 218 | | 2.89 | | 5.38 | | 15.5 | | 265 | | 901 | † | 244 | | 13.7 | |
| 52565 | DN-23 | 55 | | 250 | † | 1900 | | 160 | | 222 | | | | 8.5 | | 18 | | 248 | | 996 | †† | 236 | | 20 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 52610 | GG-23 | 62 | | 271 | | 2040 | | 170 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 64.4 | | 177 | †† | 1380 | †† | 147 | | 222 | | 21.1 | | 25.7 | †† | 37.6 | †† | 335 | †† | 996 | †† | 265 | | 19.9 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Sulphur (%w/w) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 0.516 | | 0.192 | | 0.174 | | 0.173 | | 0.248 | | 0.224 | | 0.125 | | 0.132 | | 0.663 | | 0.276 | | 0.191 | | 0.097 | |
| 8888 | DE-23 | 0.575 | | 0.209 | | 0.19 | | 0.192 | †† | 0.287 | †† | 0.266 | †† | 0.148 | †† | 0.154 | | 0.678 | | 0.279 | | 0.201 | | 0.097 | |
| 10156 | GI-23 | 0.127 | †† | 0.102 | †† | 0.101 | †† | 0.1 | †† | | | | | | | | | 0.691 | | 0.29 | | 0.24 | †† | 0.132 | †† |
| 10173 | DN-24 | 0.528 | | 0.205 | | 0.175 | | 0.177 | | 0.254 | | 0.226 | | 0.128 | | 0.139 | | 0.704 | | 0.288 | | 0.215 | | 0.12 | †† |
| 11079 | DE-23 | 0.451 | † | 0.176 | | 0.157 | | 0.161 | | | | | | | | | | 0.679 | | 0.273 | | 0.192 | | 0.103 | |
| 20204 | GJ-23 | 0.516 | | 0.188 | | 0.173 | | 0.171 | | 0.244 | | 0.218 | | 0.125 | | 0.14 | | 0.648 | | 0.27 | | 0.193 | | 0.087 | |
| 21043 | GJ-23 | 0.427 | †† | 0.176 | | 0.151 | | 0.166 | | 0.224 | † | 0.197 | †† | 0.111 | † | 0.115 | | 0.636 | | 0.251 | | 0.187 | | 0.095 | |
| 21088 | DE-23 | 0.447 | † | 0.158 | | 0.138 | †† | 0.153 | | 0.233 | | 0.181 | †† | 0.103 | †† | 0.141 | | 0.648 | | 0.235 | | 0.162 | | 0.085 | |
| 21100 | CA-37 | 0.459 | | 0.2 | | 0.187 | | 0.178 | | 0.268 | | 0.249 | | 0.15 | †† | 0.156 | † | 0.613 | | 0.32 | †† | 0.223 | | 0.136 | †† |
| 21178 | DE-23 | 0.435 | † | 0.157 | † | 0.142 | †† | 0.137 | †† | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 0.518 | | 0.186 | | 0.168 | | 0.165 | | 0.248 | | 0.22 | | 0.123 | | 0.133 | | 0.643 | | 0.262 | | 0.192 | | 0.0927 | |
| 21230 | DE-23 | 0.304 | †† | 0.124 | †† | 0.109 | †† | 0.104 | †† | 0.169 | †† | 0.155 | †† | 0.0837 | †† | 0.09 | †† | 0.58 | † | 0.243 | | 0.172 | | 0.0877 | |
| 21232 | DE-23 | 0.476 | | 0.177 | | 0.156 | | 0.158 | | 0.243 | | 0.216 | | 0.119 | | 0.125 | | 0.607 | † | 0.254 | | 0.179 | | 0.0893 | |
| 50004 | DE-23 | 0.506 | | 0.188 | | 0.169 | | 0.164 | | 0.248 | | 0.229 | | 0.123 | | 0.132 | | 0.624 | | 0.262 | | 0.188 | | 0.091 | |
| 50005 | DE-23 | 0.524 | | 0.182 | | 0.163 | | 0.165 | | 0.239 | | 0.219 | | 0.125 | | 0.129 | | 0.677 | | 0.262 | | 0.182 | | 0.0883 | |
| 50008 | GJ-23 | 0.545 | | 0.202 | | 0.174 | | 0.175 | | 0.256 | | 0.233 | | 0.129 | | 0.136 | | 0.721 | † | 0.278 | | 0.203 | | 0.103 | |
| 50011 | DE-23 | 0.488 | | 0.187 | | 0.17 | | 0.168 | | 0.253 | | 0.226 | | 0.13 | | 0.133 | | 0.629 | | 0.274 | | 0.202 | | 0.102 | |
| 50012 | DN-23 | 0.56 | | 0.203 | | 0.18 | | 0.178 | | 0.27 | † | 0.256 | †† | 0.142 | †† | 0.147 | | 0.739 | † | 0.294 | | 0.211 | | 0.104 | |
| 50014 | DE-23 | 0.537 | | 0.198 | | 0.178 | | 0.176 | | 0.26 | | 0.245 | | 0.14 | † | 0.146 | | 0.701 | | 0.291 | | 0.207 | | 0.108 | † |
| 50017 | DE-23 | 0.503 | | 0.186 | | 0.17 | | 0.169 | | 0.239 | | 0.219 | | 0.121 | | 0.124 | | 0.561 | †† | 0.257 | | 0.162 | | 0.13 | †† |
| 50018 | DE-23 | 0.515 | | 0.188 | | 0.17 | | 0.168 | | 0.243 | | 0.229 | | 0.128 | | 0.131 | | 0.663 | | 0.26 | | 0.178 | | 0.093 | |
| 50020 | GI-23 | 0.525 | | 0.195 | | 0.17 | | 0.17 | | 0.25 | | 0.235 | | 0.13 | | 0.135 | | 0.65 | | 0.24 | | 0.19 | | 0.09 | |
| 50024 | GJ-23 | 0.477 | | 0.171 | | 0.155 | | 0.148 | | 0.224 | † | 0.199 | † | 0.111 | † | 0.112 | | 0.66 | | 0.258 | | 0.191 | | 0.09 | |
| 50025 | GJ-23 | 0.5 | | 0.18 | | 0.159 | | 0.158 | | 0.246 | | 0.222 | | 0.121 | | 0.132 | | 0.657 | | 0.258 | | 0.19 | | 0.095 | |
| 50027 | DN-24 | 0.513 | | 0.188 | | 0.158 | | 0.159 | | 0.241 | | 0.213 | | 0.12 | | 0.124 | | 0.671 | | 0.266 | | 0.192 | | 0.0875 | |
| 50029 | CA-37 | 0.491 | | 0.194 | | 0.172 | | 0.173 | | 0.246 | | 0.222 | | 0.127 | | 0.131 | | 0.39 | †† | 0.274 | | 0.197 | | 0.0905 | |
| 50032 | DE-30 | | | | | | | | | | | | | | | | | 0.421 | †† | 0.132 | †† | 0.113 | †† | 0.121 | †† |
| 50037 | DE-23 | 0.514 | | 0.186 | | 0.172 | | 0.167 | | 0.245 | | 0.23 | | 0.129 | | 0.13 | | 0.661 | | 0.261 | | 0.179 | | 0.095 | |
| 52283 | GJ-23 | 0.522 | | 0.191 | | 0.171 | | 0.169 | | 0.26 | | 0.253 | † | 0.245 | †† | 0.238 | †† | 0.664 | | 0.263 | | 0.188 | | 0.121 | †† |
| 52491 | GI-23 | 0.541 | | 0.214 | | 0.178 | | 0.159 | | 0.265 | | | | 0.126 | | 0.135 | | 0.855 | †† | 0.324 | †† | 0.271 | †† | 0.121 | †† |
| 52494 | GG-23 | 0.512 | | 0.186 | | 0.163 | | 0.158 | | 0.213 | †† | | | 0.111 | † | 0.124 | | 0.671 | | 0.26 | | 0.186 | | 0.089 | |
| 52495 | GI-24 | 0.546 | | 0.191 | | 0.167 | | 0.17 | | 0.247 | | 0.227 | | 0.119 | | 0.127 | | 0.701 | | 0.281 | | 0.204 | | 0.1 | |
| 52565 | CA-37 | 0.5 | | 0.16 | | 0.16 | | 0.16 | | 0.22 | †† | | | 0.11 | † | 0.105 | †† | 0.67 | | 0.33 | †† | 0.29 | †† | 0.1 | |
| 52610 | GG-23 | 0.47 | | 0.16 | | 0.16 | | 0.16 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 0.404 | †† | 0.17 | | 0.175 | | 0.142 | †† | 0.256 | | 0.239 | | 0.138 | | 0.15 | | 0.632 | | 0.24 | | 0.171 | | 0.08 | |

| Lab. Code # | Method Codes | Plant sample identification and values for 2021: Total Zinc (mg/kg) | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *February 2021 (Round 2)* | | | | | | | | *May 2021 (Round 5)* | | | | | | | | *August 2021 (Round 8)* | | | | | |
| | | ASP 2102-1 | | ASP 2102-2 | | ASP 2102-3 | | ASP 2102-4 | | ASP 2105-1 | | ASP 2105-2 | | ASP 2105-3 | | ASP 2105-4 | | ASP 2108-1 | | ASP 2108-2 | | ASP 2108-3 | | ASP 2108-4 | |
| 22 | DE-23 | 38.4 | | 13.6 | | 25.1 | | 30.3 | | 47.1 | | 43.8 | | 19.9 | | 22.6 | | 29.3 | | 50.5 | | 31.1 | | 23.1 | |
| 8888 | DE-23 | 37.7 | | 12.9 | | 23.8 | | 28.1 | | 45.8 | | 43.2 | | 19.5 | | 21.8 | | 26.3 | | 42.6 | | 28.5 | | 20 | |
| 10156 | GI-23 | 3.26 | †† | 14.9 | †† | 21.9 | | 23.8 | | | | | | | | | | 29.1 | | 44.1 | | 29.2 | | 18.2 | |
| 10173 | DN-24 | 36.8 | | 12.4 | | 23.4 | | 27.5 | | 40.4 | | 37.4 | | 16.2 | | 19.1 | | 30.5 | | 47.5 | | 30.7 | | 21.2 | |
| 11079 | DE-23 | 39.1 | | 14 | | 25 | | 30.7 | | | | | | | | | | 39.4 | †† | 57.8 | †† | 44.8 | †† | 29.4 | †† |
| 20204 | GJ-23 | 37.1 | | 12.2 | | 23.8 | | 28.1 | | 44.5 | | 43.1 | | 19.7 | | 23.1 | | 26.5 | | 48.2 | | 27.8 | | 20.9 | |
| 21043 | GJ-23 | 30.8 | †† | 11 | †† | 23.2 | | 28.1 | | 36.2 | †† | 34.5 | †† | 15.6 | | 17.6 | | 25.4 | | 44.2 | | 27.1 | | 21.2 | |
| 21088 | DE-23 | 35 | | 12 | | 24 | | 31 | | 42 | | 33 | †† | 15 | †† | 23 | | 25 | | 40 | † | 25 | | 18 | |
| 21100 | DE-24 | 38.6 | | 13.2 | | 24.3 | | 27.7 | | 44.7 | | 40.5 | | 18.5 | | 20.5 | | 27.4 | | 43.3 | | 28.2 | | 21.1 | |
| 21178 | DE-23 | 36.2 | | 12.4 | | 22.7 | | 26.6 | | | | | | | | | | | | | | | | | |
| 21190 | AD-13 | 38.6 | | 12.8 | | 21.6 | | 25.6 | | | | | | | | | | | | | | | | | |
| 21229 | GI-23 | 37.8 | | 12.9 | | 23.7 | | 27.8 | | 43.9 | | 40.3 | | 19 | | 21.9 | | 26.6 | | 46.1 | | 29.5 | | 21 | |
| 21230 | DE-23 | 27.2 | †† | 9.02 | †† | 17.3 | †† | 20.4 | †† | 36 | †† | 35.4 | † | 15.6 | | 17.7 | | 26.3 | | 44.2 | | 27.3 | | 20.1 | |
| 21232 | DE-23 | 36 | | 12.1 | | 23 | | 25.9 | | 42 | | 39.3 | | 17.1 | | 19.6 | | 28.8 | | 46.4 | | 30 | | 20.2 | |
| 21234 | GH-09 | 76.1 | †† | 28.9 | †† | 48.8 | †† | 52 | †† | | | | | | | | | 45.4 | †† | 62.7 | †† | 40.4 | †† | 22.2 | |
| 50004 | DE-23 | 35.9 | | 12.5 | | 24 | | 28.5 | | 40.7 | | 39.5 | | 18.2 | | 21.1 | | 27.4 | | 44.3 | | 28.2 | | 20.7 | |
| 50005 | DE-23 | 37.1 | | 13.1 | | 23.5 | | 29.3 | | 44.2 | | 40.5 | | 19.9 | | 22 | | 33.7 | | 45.9 | | 41.4 | †† | 28.2 | †† |
| 50008 | GJ-23 | 37.2 | | 12.8 | | 22.8 | | 28.1 | | 42.2 | | 41.3 | | 18.3 | | 20.8 | | 28.9 | | 47.6 | | 29.4 | | 21.9 | |
| 50011 | DE-23 | 35.4 | | 12.4 | | 22.7 | | 26.2 | | 42.2 | | 38.8 | | 18 | | 20 | | 28.8 | | 45.6 | | 30.6 | | 21.6 | |
| 50012 | DN-23 | 40.7 | | 13.8 | | 25 | | 29.7 | | 47.5 | | 46.7 | | 20.7 | | 23.8 | | 31 | | 50.1 | | 31.7 | | 22.6 | |
| 50014 | DE-23 | 40.4 | | 13.6 | | 24.7 | | 28.8 | | 45.1 | | 42.9 | | 19.4 | | 22.1 | | 31 | | 48.7 | | 31.2 | | 22.7 | |
| 50017 | DE-23 | 36.1 | | 12.7 | | 23.1 | | 25.8 | | 43.5 | | 41.8 | | 18.8 | | 21 | | 26.9 | | 45.5 | | 27 | | 19.3 | |
| 50018 | DE-23 | 37.8 | | 13.1 | | 23.7 | | 29.1 | | 43.9 | | 43.4 | | 19.9 | | 21.3 | | 28.9 | | 46.4 | | 29.1 | | 21.9 | |
| 50020 | GI-23 | 36.7 | | 12.7 | | 23.3 | | 27.6 | | 44.2 | | 44.5 | | 20 | | 22.8 | | 30.4 | | 45.2 | | 31.6 | | 22.6 | |
| 50024 | GJ-23 | 37.6 | | 12.9 | | 24.1 | | 27.6 | | 42.6 | | 42 | | 30.8 | †† | 19.8 | | 29.7 | | 47.7 | | 29.9 | | 20.7 | |
| 50025 | GJ-23 | 35.6 | | 14 | | 24.8 | | 31.2 | | 45.2 | | 47 | | 21.7 | | 24.4 | | 30 | | 53.7 | †† | 31.4 | | 25.9 | †† |
| 50027 | DN-24 | 38.8 | | 13 | | 23 | | 26.3 | | 42.9 | | 40 | | 17 | | 20 | | 31 | | 45.5 | | 30 | | 19.9 | |
| 50029 | AD-23 | 37.6 | | 13.9 | | 24.9 | | 30.6 | | 45.3 | | 43.7 | | 21 | | 22.2 | | 31.9 | | 49.3 | | 32 | | 24.1 | |
| 50032 | DE-11 | | | | | | | | | | | | | | | | | 34.6 | † | 46.8 | | 31.2 | | 22.1 | |
| 50037 | DE-23 | 37.6 | | 13.2 | | 23.6 | | 29.1 | | 44 | | 43.4 | | 19.9 | | 21.3 | | 28.9 | | 46.3 | | 29.2 | | 21.9 | |
| 52283 | GJ-23 | 37.9 | | 12.9 | | 24.1 | | 28.2 | | 46.3 | | 44.2 | | 19.6 | | 21.3 | | 27.1 | | 46.2 | | 27.6 | | 21.6 | |
| 52387 | DE-09 | 28.4 | †† | 11.8 | | 21.2 | † | 23.4 | † | 44 | | 38 | | 15.8 | | 19.6 | | 28.4 | | 39.8 | †† | 28.4 | | 19.4 | |
| 52491 | GI-23 | 39.7 | | 14.1 | | 25.6 | | 28.7 | | 46.4 | | | | 19.2 | | 21.5 | | 29.1 | | 45.7 | | 30.2 | | 20.4 | |
| 52494 | GG-23 | 33.3 | † | 11.8 | | 20.5 | †† | 23.3 | † | 37.3 | †† | | | 16.4 | | 19.2 | | 27.6 | | 40.5 | | 26.2 | | 18.5 | |
| 52495 | GI-24 | 40.9 | | 13.4 | | 24.5 | | 30.4 | | 44 | | 41.6 | | 18.5 | | 21.4 | | 31.7 | | 47.7 | | 32.4 | | 22.5 | |

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| 52565 | DN-23 | 33.6 | † | 10.5 | †† | 21.3 | † | 23.3 | † | 40.5 | | | | 17.1 | | 20 | | 27.7 | | 46.1 | | 26.7 | | 20 | |
| 52610 | DE-24 | 38 | | 13 | | 24 | | 27 | | | | | | | | | | | | | | | | | |
| 52636 | DE-23 | 35.1 | | 11.4 | | 21.1 | † | 22.5 | †† | 40.4 | | 39.9 | | 18 | | 19.8 | | 27 | | 43.6 | | 28.6 | | 21.6 | |
| 52639 | DE-38 | | | | | | | | | | | | | | | | | 24 | | 40 | † | 28 | | 22 | |