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Soil and Plant  
Analysis Council Inc.



**ASPAC**  
**Soil Proficiency Testing**  
**Program Report**

**2005-06**

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## Foreword

One of the main activities listed in ASPAC's original Membership Information and Objectives Brochure in 1990 was to "conduct regular National Quality Assurance Programs to enhance standards of analysis and assist standardisation of soil and plant analytical methods across laboratories". For the next dozen years, soil and plant Inter-Laboratory Proficiency Programs (ILPPs) of ASPAC operated at around 12 to 18 month intervals with only minor changes. Members of ASPAC's Laboratory Proficiency Committee overviewed these programs and discussed them nationally and internationally.

As part of a continuous improvement process that included a comprehensive written review, the ASPAC Executive agreed in 2002-03 that its ILPPs should be upgraded to increase their frequency and the number of samples assessed annually. This annual report is the second in the upgraded inter-laboratory proficiency program (ILPP) for soil chemical tests. It covers three "rounds" each of four homogeneous samples sent to 39 participants in December 2005, in March 2006 and in May 2006. There is a companion 2005/06 annual report covering plant chemical tests.

ASPAC's Laboratory Proficiency Committee, the membership of which is listed on page iv, oversaw the program. The ASPAC Executive is grateful to all of those who contributed to the report, inclusive of staff of Proficiency Services Limited, New Zealand, our service provider.

The ASPAC Executive also appreciates the effort and commitment made by participating laboratories. We recognise that laboratories share responsibility for measurement quality.

David Orr  
ASPAC Chairperson 2006-2008

## Acknowledgements

All periods of transition have their challenges and the upgrading of ASPAC's ILPPs was no exception. Participating laboratories across Australasia are commended for their patience and loyal support.

We thank the staff of DPI-Werribee (previously known as the State Chemistry Laboratory), particularly Bruce Shelley, Pat Johnstone and Kathryn Parker, for their assistance in helping with the preparation and transfer of ASPAC test samples from Victoria, Australia, to Hamilton, New Zealand.

In New Zealand we thank Landcare Research and Hill Laboratories for the sample homogeneity testing they undertook for PSL. Within PSL, we extend thanks to Joanne Bedford, other PSL staff and to Dr Philip Poole for their inputs.

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## Your Notes

## 1. Introduction

The Australasian Soil and Plant Analysis Council Inc (ASPAC) commenced its not-for-profit ILPPs in 1990 and issued its first soil program report in 1993. Its ILPPs specifically target soil and plant chemical laboratories in the Australasian region, although there are no restrictions on who can participate. A service provider operates the programs for ASPAC under contract.

ILPPs support ASPAC's overall goals to:

- promote excellence in all aspects of soil and plant analysis
- encourage and promote the adoption of preferred methods and protocols used in soil and plant analysis within Australasia.

More details on ASPAC can be obtained from its public web site at [www.aspac-australasia.com](http://www.aspac-australasia.com). The site includes the ASPAC Strategic Plan and the names of its elected and appointed office holders.

Published ASPAC soil ILPP reports are dated or cover 1993, 1995, 1997, 1998, 1999, 2000, 2001/02, 2002/03 and 2004/05. The first eight were conducted and reported through an Australian provider as discrete entities, based on six homogeneous samples of dried and ground soil and subsequent laboratory analysis for a comprehensive range of soil chemical tests, mostly based on empirical procedures.

This is the second annual report from ASPAC's new, upgraded soil ILPP that commenced in 2004 and now operates out of New Zealand through a Provider Agreement with Proficiency Services Limited (PSL). The program is a composite of three "rounds", each of four homogeneous samples of dried and ground soils. Laboratory participants (Appendix 1) receive individual progress reports of their results (relative to others) for each of these "rounds". They also receive a consolidated, individual annual summary report on their measurement performance relative to others.

This annual program report consolidates (for ASPAC members and the public record) the three soil "rounds" that occurred in 2005-06. It also records program methodology, summary statistics, and a full listing of results by test for the three "rounds". In addition, the report includes an outline of how ASPAC periodically 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, ASPAC's public web site now lists the laboratories certified as proficient for specific tests for the most recently completed program year. ASPAC's plan is to update information on certified tests and certifications for participating laboratories soon after completion of each annual program for both plants and soils. The first displayed were from the 2005-06 program year.

An inaugural Mehlich 3 sample exchange was conducted by ASPAC through PSL during 2005-06. Key findings have been documented in a separate publication<sup>1</sup>.

## 2. Program Details

### 2.1 Responsibilities

PSL (see Page iv for contact details) was contracted by ASPAC as the soil ILPP provider for 2005-06. Accordingly, PSL 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. PSL also undertook data analysis and "round-by-round" reporting for

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<sup>1</sup> Rayment, G.E., Hill, R., Peverill, K. and Daly, B. ((in press). Initiatives of the Australasian Soil and Plant Analysis Council to assess the measurement quality of common methods for soil and plant analysis in Australasia. *Commun. Soil Sci. Plant Anal.*

ASPAC, and assembled the summary and “raw” data provided in Section 3 and Appendix 4, respectively, of this report. PSL is a proficiency service provider accredited to *ISO Guide 43-1 Part 1: Development and operation of proficiency testing schemes*.

ASPAC’s LPC had responsibility to implement and resolve matters of policy and to provide guidance on technical matters specific to soil chemical testing both to PSL and to laboratory participants. The LPC also undertook statistical checks and audits for quality control purposes, participated in a Technical Advisory Group operated by the service provider, and contributed to training workshops. ASPAC, through members of its LPC or via its state representatives, may contact managers of laboratories with less certain analytical performance to ensure a measurement improvement program is commenced where necessary. Laboratories are encouraged to seek help from ASPAC if they are shown to be operating at levels of measurement performance below their peers.

Participants receive a unique, confidential laboratory number, subsequently used to identify the origin of each result presented in program reports and lists of results. Typically, this identification number carries forward from one annual program to the next.

## **2.2 Soil program participation**

Up to 39 laboratories participated in the ASPAC soil ILPP in 2005-06 but the numbers that reported results varied by “round” and soil test (see Table 1). Contact details for laboratories that submitted results for any test in one or more of the three “rounds” are provided in Appendix 1. Most results, averaged across the three “rounds”, were submitted for method 4A1 (pH, 1:5 soil-water) and method 3A1 (Electrical conductivity, 1:5 soil-water). Participation counts for each test and sample are also summarized in Section 3.

## **2.3 Tests and methods**

The three proficiency “rounds” for soils – each comprising four samples – were offered in December 2005, in March, and in May 2006. Participants were invited to analyse each sample by the methods listed and/or coded in Table 1. Participants were not required to submit results for all 44 tests, noting that phosphate buffer index (Colwell) and phosphate buffer index (Olsen) were “scored” as one method each, independent of which analytical finish was used. The moisture status of results were assumed to be as recommended by Rayment and Higginson (1992), which vary from air dry to oven dry depending on method. However, it is understood at least some laboratories reported their results only on a weight / weight basis for air-dry (40°C) soil.

## **2.4 Sample preparation and identification**

Before distribution to participants, potential samples were analysed for homogeneity by laboratories accredited to ISO 17025. Specifically, 10 containers of each sample were selected at random by PSL and batched according to the principles described by Thompson and Wood (1993)<sup>2</sup>. These sub-samples were then analysed in duplicate for a representative parameter or parameters. Test methods included the following:

- Total N — Dumas (combustion) method
- Olsen P (method 9C).

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<sup>2</sup> Thompson, M and Wood, R. (1993). International harmonized protocol for proficiency testing of (chemical) analytical laboratories. *Journal of AOAC International* 76 (4), 926 – 940.



Table 1. Test methods, corresponding method codes and the number of participating laboratories in each "round" of the ASPAC 2005-06 soil ILPP

2005-06 Soil Tests	Method Codes <sup>3</sup>	Number of participants		
		Dec 05	March 06	May 06
Electrical conductivity 1:5 soil-water	3A1	37	34	38
Soil pH, 1:5 soil-water	4A1	39	33	39
Soil pH, 1:5 0.01 M CaCl <sub>2</sub> — direct	4B1	16	12	16
Soil pH, 1:5 0.01 M CaCl <sub>2</sub> — indirect	4B2	22	23	23
Water soluble Cl — potentiometric	5A1	15	11	15
Water soluble Cl — autocolour	5A2	11	12	14
Organic Carbon —W&B	6A1	17	15	20
Organic Carbon — Other		2	2	2
Total Organic C — Heanes	6B1	4	4	3
Total Organic C — HF Induction, Vol	6B2	3	4	2
Total Organic C — HF Induction, IR	6B3	9	8	8
Total Organic C — Other		5	4	4
Total N — Kjeldahl, steam distillation	7A1	10	7	11
Total N — Kjeldahl, autocolour	7A2	9	9	8
Total N — Dumas		18	17	17
Water Soluble Nitrate N — autocolour	7B1	12	12	13
KCl Extractable Nitrate N — autocolour	7C2	20	19	21
KCl Ext. Ammonium N — autocolour	7C2	23	25	26
Total P — all methods	9A1 and others	26	21	23
Colwell Extractable P — manual	9B1	12	12	13
Colwell Extractable P — autocolour	9B2	10	9	9
Olsen Extractable P — manual	9C1	9	6	8
Olsen Extractable P — autocolour	9C2	7	8	8
Bray-1 Extractable P — manual	9E1	12	8	8
Bray-1 Extractable P — autocolour	9E2	7	6	7
Phosphorus buffer index (with Colwell P)	9I2a + 9I2b + 9I2c <sup>4</sup>	13	11	10
Phosphorus buffer index (with Olsen P)	9I3a + 9I3b + 9I3c <sup>4</sup>	4	4	4
Phosphate Extractable S	10B3	6	7	6
KCl 40 Extractable S	Blair <i>et al</i> <sup>5</sup>	11	9	10
DTPA Extractable Fe	12A1	27	25	29
DTPA Extractable Cu	12A1	27	25	29
DTPA Extractable Mn	12A1	27	25	29
DTPA Extractable Zn	12A1	27	24	29
Hot CaCl <sub>2</sub> Extractable B — manual colour	12C1	6	5	6

<sup>3</sup> Unless otherwise indicated, soil method codes are as defined by Rayment, G.E. and Higginson, F.R. (1992). Australian Laboratory Handbook of Soil and Water Chemical Methods. Reed International Books Australia P/L, trading as Inkata Press, Port Melbourne. 330 pp. This reference also includes background information on all of the coded methods.

<sup>4</sup> These are ASPAC endorsed tests. See the Table Notes for more details.

<sup>5</sup> Blair, G.J., Chinoim, N., Lefroy, R.D.B., Anderson, G.C., and Crocker, G.J. (1991). A soil sulfur test for pastures and crops. *Aust. J. Soil Research*. 29, 619-626.

2005-06 Soil Tests	Method Codes <sup>3</sup>	Number of participants		
		Dec 05	March 06	May 06
Hot CaCl <sub>2</sub> Extractable B — ICPAES	12C2	15	12	14
Exchangeable Ca — 1M NH <sub>4</sub> Cl extract	15A1	16	16	20
Exchangeable Mg — 1M NH <sub>4</sub> Cl extract	15A1	16	16	20
Exchangeable Na — 1M NH <sub>4</sub> Cl extract	15A1	15	16	19
Exchangeable K — 1M NH <sub>4</sub> Cl extract	15A1	16	16	20
Exchangeable Ca — 1M NH <sub>4</sub> OAc extract	15D3	15	14	15
Exchangeable Mg — 1M NH <sub>4</sub> OAc extract	15D3	15	14	15
Exchangeable Na — 1M NH <sub>4</sub> OAc extract	15D3	16	14	16
Exchangeable K — 1M NH <sub>4</sub> OAc extract	15D3	16	14	16
Exchangeable Al — 1M KCl extract	15G1	20	15	20

**Notes for Table 1:**

- 9I2a Phosphorus buffer index – Colwell – Murphy and Riley finish (9I2C in earlier ASPAC reports)  
9I2b Phosphorus buffer index – Colwell – ICPAES finish (9I3C in earlier ASPAC reports)  
9I2c Phosphorus buffer index – Colwell – Vanadate finish (9I4C in earlier ASPAC reports)  
9I3a Phosphorus buffer index – Olsen – Murphy and Riley finish (9I2O in earlier ASPAC reports)  
9I3b Phosphorus buffer index – Olsen – ICPAES finish (9I3O in earlier ASPAC reports)  
9I3c Phosphorus buffer index – Olsen – Vanadate finish (9I4O in earlier ASPAC reports)

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Results from the homogeneity testing were subsequently statistically assessed by PSL according to ISO REMCO Protocol N231 "*Harmonised Proficiency Testing Protocol*" of January 1992. Variations between samples were such that all sample batches were deemed to be homogeneous and therefore suitable for use in proficiency testing. Examples of the homogeneity data and statistical assessments on the data are summarised in Appendix 2. In addition to testing for homogeneity, the soil samples were irradiated or otherwise rendered biologically benign to comply with international and/or national biosecurity regulations or requirements<sup>6</sup>.

Ultimately, the samples used in the three "rounds" of the 2005-06 program were distributed and coded as follows: round 205 of December 2005 — ASS 121-124; round 405 of March 2006 — ASS 31-34; and round 605 of May 2006 — ASS 51-54. The association between sample code and origin of the various soils are provided in Table 2.

Table 2. Sample identification and the origin of the samples included in the ASPAC 2005-06 soil ILPP

<i>Sample ID</i>	<i>Sample origin (texture)</i>	<i>Sample ID</i>	<i>Sample origin</i>
ASS 121	North America	ASS 33	Tasmania
ASS 122	New Zealand	ASS 34	Western Australia
ASS 123	New South Wales	ASS 51	Northern Territory
ASS 124	Victoria	ASS 52	North America
ASS 31	New Zealand	ASS 53	Australia
ASS 32	Australia	ASS 54	Queensland

<sup>6</sup> Rayment, G.E (2006). Australian efforts to prevent the accidental movement of pests and diseases in soil and plant samples. *Commun. Soil Sci. Plant Anal.* 37, 2107-2117.

Test samples ASS 121 and ASS 52 were provided by the North American Proficiency Testing Program, and sub-sampled by Landcare Research, New Zealand. Samples ASS 123, ASS 124, ASS 32, ASS 51 and ASS 53 were prepared by Victoria's DPI-Werribee and mixed and sub-sampled by PSL, New Zealand. The remaining test samples, from Australia and New Zealand (ASS 122, ASS 31, ASS 33, ASS 34, ASS 54), were prepared by Landcare Research, New Zealand.

## 2.5 Data analysis and periodic reporting

Laboratory results, after submission to PSL, were entered into a database and independently checked for data transfer accuracy prior to data processing. In keeping with past practice for soils<sup>7</sup>, the results for similar methods were "pooled" (eg. manual and automated "finishes") to obtain larger populations of laboratories for statistical assessments and to calculate means/medians in the case of 9I3a + 9I3b + 9I3c. "Pooling" details for the 2005-06 soil program are summarised in Table 3.

Table 3. Method "pooling" summary for the ASPAC 2005-06 soil ILPP

2004-05 Soil Tests	Method Codes	Average participants
Soil pH, 1:5 0.01 M CaCl <sub>2</sub> — pooled	4B1 + 4B2	38
Water soluble Cl — pooled	5A1 + 5A2	26
Organic Carbon — pooled	6A1 + Other	19
Total Organic Carbon — pooled	6B1 + 6B2 + 6B3 + Other	19
Total N — part-pool	7A1 + 7A2	18
Total N — full-pool	7A1 + 7A2 + Dumas	36
Colwell Extractable P — pooled	9B1 + 9B2	22
Olsen Extractable P — pooled	9C1 + 9C2	15
Bray-1 Extractable P — pooled	9E1 + 9E2	16
Phosphorus buffer index ( <i>Colwell – all analytical finishes</i> )	9I2a + 9I2b + 9I2c <sup>8</sup>	11
Phosphorus buffer index ( <i>Olsen – all analytical finishes</i> )	9I3a + 9I3b + 9I3c <sup>8</sup>	4
Hot CaCl <sub>2</sub> Extractable B — pooled	12C1 + 12C2	20

The non-parametric assessment of laboratory performance for each sample and method (and/or "pooled" method) was performed by an iterative statistical procedure similar to that used in WEPAL inter-laboratory proficiency programs of Wageningen University. This procedure<sup>9,10</sup> is suited to datasets of as few as six to eight 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 4.

<sup>7</sup> Johnstone, P; Shelley, B; Kitching, M. (2002). *Soil Proficiency Testing Program Report 2001*, Vol 2, No. 1. ASPAC, c/- State Chemistry Laboratory: Victoria, (July 2002).

<sup>8</sup> This test was reported with superseded codes in "round" reports to laboratories in 2005-06.

<sup>9</sup> 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. *Commun. Soil Sci. Plant Anal.* 31, 1513-1530.

<sup>10</sup> 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 4. Statistical terms and their meanings in the context of this ASPAC annual report

<i>Statistical term</i>	<i>Meaning and/or derivation</i>
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 50 <sup>th</sup> 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 <sup>A</sup>	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 equals zero. The arithmetic mean is sensitive to extreme measurements.
MAD	The <u>M</u> edian of the <u>A</u> bsolute <u>D</u> eviations, 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 25 <sup>th</sup> percentile (referred to as the first quartile; $Q_1$ ) from the score at the 75 <sup>th</sup> 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 was that of SAS Method 4 <sup>11</sup> . In summary, $IQR = Q_3 - Q_1$ .
Normalised IQR	This equates to $IQR \times 0.7413$ , where the latter is a normalising factor.
Robust % CV <sup>12</sup>	The robust coefficient of variation (Robust % CV) = $(100 \times \text{normalised IQR} / \text{median})$ . For simplicity, the Robust %CVs shown are for the initial results, and for the “final” population of results for a test after the removal of any “outliers” or “stragglers”, following one or two iterations. Note that for Interim Reports, this term is estimated as = $(100 \times \text{MAD} \times 1.483) / \text{Median}$ , separately for “i” and “f” datasets.
Letter “i” and the letter “f” associated with medians, means, MADs, IQR and Robust %CVs in data summaries.	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).

<sup>A</sup> 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.

<sup>11</sup> SAS Procedure Guide.

<sup>12</sup> “Guide to NATA Proficiency Testing”. 27 pp. (National Association of Testing Authorities, Australia, December 1997).

In addition to medians and MADs, other statistical parameters (also described in Table 4) were calculated before and following the omission of non-conforming results. The “raw” data from participating laboratories on a test-by-test basis are documented in Appendix 4.

Results submitted by each laboratory were expected to reflect the reporting guidelines in the chapter on that topic in Rayment and Higginson (1992). Like other programs nationally and internationally, the program did not accept as a numeric value 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 report a value half way between that value and zero. For high values, dilution was the expected option. In practice, this did not always occur in 2005-06, witnessed by the inclusion of a few zero values in the “raw” data compilations in Appendix 4.

Interim “round” reports, summarising measurement performance relative to the performance of all laboratories in the program that undertook the same test/s, were routinely and promptly e-mailed to laboratory participants. The main purpose of the interim reports was to provide feedback and to enable laboratories to take prompt action where appropriate. Interim reports also provided an opportunity to correct for data-transfer and data-processing misinterpretations. In addition, a Newsletter from the service provider went to all participating laboratories. Its main purpose was to assist in the interpretation of interim reports. Also included in the Newsletter was information about upcoming events and operational administration of the program.

Laboratories that participated in the 2005-06 soil ILPP each received from PSL (on behalf of ASPAC) a laboratory specific, confidential, annual summary report. Each laboratory’s data for the 12 soil 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 laboratory code number was included.

## **2.6 ASPAC certification of laboratories for soil tests**

Subject to satisfactory measurement performance for 12 samples across three sequential “rounds” over a twelve-month period, ASPAC awards participating laboratories with a printed signed and dated *Certificate of Proficiency*. The *Certificate of Proficiency* identifies each test that met good performance criteria set in advance by ASPAC. Method specific certification applied when a laboratory incurred no more than four demerit points for the 12 samples in 2005-06.

Demerit points (if any) were allocated through the identification of “outliers” and “stragglers” (see Appendix 3 for numbers of these) by the “median / MAD” statistical procedure mentioned earlier in this report. 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.

The same procedure applied to “pooled” methods but there was a caveat. When both “unpooled” and “pooled” data for a test such as soil C could be assessed statistically and both subsequently qualified for certification, only the “unpooled” method was recorded on the Certificate rather than both.

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 ASPAC’s LPC through its Convenor. When the explanation was accepted, performance from the three most recently completed “rounds” was used to assess eligibility for certification. No “special circumstances” arose in 2005-06.

Finally, when less than six (6) 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 affected tests could not be granted. Importantly, ASPAC’s *Certificates of Proficiency* are only issued on completion of each annual program of three “rounds”. Moreover, the certifications obtained in the 2005-06 Soils’ Program remain valid until completion of the corresponding 2006-07 Program. Nowadays, ASPAC provides details of certified laboratories by test on its public web site.

### **3. Summary Statistics**

This section provides summary statistics on all tests (plus key “pooled” combinations) for each of the 12 samples used across three soil “rounds” in 2005-06. The tabulations include initial and subsequent values for the iterative “median / MAD” procedure plus other robust statistics. Table 4 and Appendix 3 have the meaning or derivation of the terms and statistics used in the tabulated summaries. Moisture status is commonly included. When the number of results is less than six either in the initial data set or the final data set, the derived parameters IQR and robust CV% are not displayed in summary tables.

## 2005-06: Electrical conductivity 1:5 soil-water (3A1) dS/m air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	37	37	37	37	34	34	34	34	38	38	38	38
Minimum	0.08	0.216	0.074	0.092	0.14	0.21	0.05	0.21	0.01	0.096	0.094	0.061
Maximum	140	330	140	150	22	380	80	38	0.591	0.621	0.2	0.122
Median i	0.118	0.27	0.114	0.13	0.21	0.3475	0.08	0.349	0.1	0.549	0.168	0.106
Mean i	3.91	9.18	3.89	4.19	0.85	11.5	2.44	1.45	0.11	0.534	0.166	0.105
MAD i	0.008	0.015	0.006	0.01	0.012	0.0188	0.0065	0.018	0.007	0.0275	0.0125	0.0055
IQR i	0.0096	0.0245	0.0122	0.0152	0.0176	0.028	0.0102	0.0274	0.0126	0.0398	0.0222	0.0082
Robust CV % i	8.2	9.1	11	12	8.4	8.1	13	7.9	13	7.3	13	7.7
Median f	0.118	0.27	0.114	0.13	0.209	0.348	0.08	0.349	0.1	0.554	0.168	0.107
Mean f	0.116	0.267	0.113	0.131	0.208	0.347	0.079	0.35	0.01	0.551	0.167	0.106
MAD f	0.008	0.014	0.006	0.008	0.011	0.0175	0.0055	0.017	0.0058	0.028	0.012	0.005
IQR f	0.0085	0.0224	0.0119	0.0133	0.0163	0.0274	0.0082	0.0258	0.0096	0.0402	0.0196	0.0082
Robust CV % f	7.2	8.3	10	10	7.8	7.9	10	7.4	9.6	7.3	12	7.6
Outliers	4	2	4	3	3	4	4	2	4	2	1	1
Stragglers	0	1	0	1	0	0	0	0	0	0	0	0

## 2005-06: Soil pH, 1:5 soil-water (4A1) air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	39	39	39	39	33	33	33	33	39	39	39	39
Minimum	6.4	6.14	4.6	5.88	4.72	6.67	4.83	4.61	5.39	5.61	5.07	6.08
Maximum	7.63	7.03	6.39	6.6	5.85	8.22	6.61	5.72	6.21	6.3	5.82	6.7
Median i	6.86	6.52	5.27	6.395	5.24	7.93	5.42	5.10	5.90	5.94	5.40	6.50
Mean i	6.83	6.52	5.26	6.32	5.25	7.86	5.44	5.10	5.88	5.94	5.39	6.45
MAD i	0.12	0.08	0.07	0.095	0.06	0.08	0.08	0.06	0.1	0.07	0.09	0.1
IQR i	0.215	0.119	0.111	0.148	0.093	0.137	0.137	0.089	0.148	0.111	0.141	0.133
Robust CV % i	3.1	1.8	2.1	2.3	1.8	1.7	2.5	1.7	2.5	1.9	2.6	2.1
Median f	6.90	6.53	5.28	6.41	5.24	7.95	5.42	5.10	5.91	5.95	5.40	6.54
Mean f	6.87	6.55	5.27	6.38	5.24	7.94	5.40	5.08	5.90	5.95	5.39	6.52
MAD f	0.095	0.07	0.06	0.09	0.065	0.07	0.075	0.05	0.09	0.06	0.08	0.065
IQR f	0.119	0.082	0.098	0.104	0.085	0.115	0.13	0.083	0.133	0.096	0.122	0.122
Robust CV % f	1.7	1.2	1.9	1.6	1.6	1.4	2.4	1.6	2.3	1.6	2.3	1.9
Outliers	3	6	7	5	3	4	3	3	2	3	1	4
Stragglers	4	0	0	0	0	0	0	0	0	0	1	3

## 2005-06: Soil pH, 1:5 0.01 M CaCl<sub>2</sub> — direct (4B1) air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	16	16	16	16	12	12	12	12	16	16	16	16
Minimum	5.56	5.4	4.14	5.21	4.48	6.5	4.28	4.34	5.04	5.29	4.59	5.35
Maximum	6.73	6.36	4.8	5.98	4.9	7.37	4.8	4.9	5.9	6.17	5.56	5.99
Median i	6.26	6.03	4.65	5.74	4.75	7.16	4.64	4.69	5.30	5.71	4.82	5.78
Mean i	6.23	6.04	4.59	5.67	4.74	7.12	4.63	4.68	5.36	5.71	4.90	5.73
MAD i	0.18	0.11	0.085	0.065	0.035	0.1	0.03	0.035	0.095	0.11	0.09	0.095
IQR i	0.282	0.198	0.137	0.163	0.074	0.154	0.056	0.05	0.241	0.161	0.165	0.139
Robust CV % i	4.5	3.3	2.9	2.8	1.6	2.1	1.2	1.1	4.5	2.8	3.4	2.4
Median f	6.26	6.03	4.66	5.75	4.74	7.17	4.64	4.69	5.26	5.71	4.81	5.80
Mean f	6.23	6.08	4.65	5.76	4.74	7.18	4.65	4.69	5.29	5.71	4.83	5.76
MAD f	0.18	0.1	0.08	0.025	0.03	0.1	0.025	0.03	0.06	0.11	0.06	0.1
IQR f	0.282	0.2	0.119	0.056	0.041	0.141	0.048	0.046	0.104	0.161	0.115	0.141
Robust CV % f	4.5	3.3	2.5	0.97	0.86	2	1	0.99	2	2.8	2.4	2.4
Outliers	0	1	2	3	1	1	2	2	1	0	2	1
Stragglers	0	0	0	3	2	0	0	0	1	0	0	0

## 2005-06: Soil pH, 1:5 0.01 M CaCl<sub>2</sub> — indirect (4B2) air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	22	22	22	22	23	23	23	23	23	23	23	23
Minimum	5.95	5.9	4.43	5.55	4.5	6.6	4.41	4.48	5.02	5.2	4.55	5.45
Maximum	6.6	6.38	4.98	6.06	5.1	7.55	5	4.8	5.7	6.02	5.38	6.17
Median i	6.35	6.12	4.64	5.80	4.77	7.33	4.68	4.71	5.29	5.72	4.81	5.80
Mean i	6.34	6.12	4.66	5.80	4.77	7.31	4.67	4.69	5.32	5.71	4.84	5.80
MAD i	0.11	0.04	0.065	0.035	0.05	0.12	0.03	0.04	0.09	0.08	0.05	0.05
IQR i	0.176	0.069	0.083	0.059	0.082	0.185	0.082	0.074	0.148	0.148	0.089	0.074
Robust CV % i	2.8	1.1	1.8	1	1.7	2.5	1.7	1.6	2.8	2.6	1.8	1.3
Median f	6.35	6.12	4.63	5.80	4.77	7.36	4.70	4.73	5.28	5.72	4.81	5.80
Mean f	6.34	6.12	4.64	5.80	4.76	7.35	4.68	4.73	5.27	5.72	4.82	5.80
MAD f	0.11	0.015	0.06	0.01	0.05	0.09	0.01	0.03	0.04	0.08	0.03	0.035
IQR f	0.176	0.028	0.078	0.03	0.074	0.139	0.026	0.059	0.074	0.126	0.074	0.05
Robust CV % f	2.8	0.45	1.7	0.51	1.6	1.9	0.55	1.3	1.4	2.2	1.5	0.86
Outliers	0	3	1	4	2	1	4	3	3	1	2	3
Stragglers	0	3	0	3	0	0	6	1	3	1	2	2



## 2005-06: Soil pH, 1:5 0.01 M CaCl<sub>2</sub> — pooled (4B1 + 4B2)

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	38	38	38	38	35	35	35	35	39	39	39	39
Minimum	5.56	5.4	4.14	5.21	4.48	6.5	4.28	4.34	5.02	5.2	4.55	5.35
Maximum	6.73	6.38	4.98	6.06	5.1	7.55	5	4.9	5.9	6.17	5.56	6.17
Median i	6.30	6.11	4.64	5.78	4.75	7.29	4.67	4.70	5.29	5.72	4.81	5.80
Mean i	6.29	6.09	4.63	5.75	4.76	7.25	4.65	4.69	5.33	5.71	4.86	5.77
MAD i	0.105	0.09	0.07	0.04	0.05	0.12	0.04	0.05	0.09	0.1	0.07	0.05
IQR i	0.191	0.133	0.106	0.074	0.082	0.193	0.067	0.074	0.141	0.148	0.089	0.133
Robust CV % i	3	2.2	2.3	1.3	1.7	2.6	1.4	1.6	2.7	2.6	1.8	2.3
Median f	6.32	6.11	4.64	5.80	4.76	7.30	4.67	4.71	5.28	5.72	4.80	5.80
Mean f	6.33	6.12	4.65	5.79	4.76	7.29	4.66	4.71	5.27	5.72	4.81	5.79
MAD f	0.1	0.085	0.06	0.035	0.05	0.11	0.03	0.04	0.05	0.09	0.02	0.04
IQR f	0.172	0.128	0.104	0.05	0.070	0.178	0.059	0.056	0.083	0.141	0.048	0.063
Robust CV % f	2.7	2.1	2.2	0.86	1.5	2.4	1.3	1.2	1.6	2.5	1	1.1
Outliers	4	2	3	10	3	2	4	4	5	3	3	8
Stragglers	0	0	0	0	0	0	4	1	4	0	7	2

## 2005-06: Water soluble Cl — potentiometric (5A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	15	15	15	15	11	11	11	11	15	15	15	15
Minimum	0	0	0	0	0.11	0.43	0.1	0.28	2.25	1.83	18	25.5
Maximum	45.3	50	45	38	46.5	172	128	118	46.9	535	226	149
Median i	9.12	19.1	28.0	23.0	25.4	116	21.0	74.5	16.0	183	31.6	31.0
Mean i	12.2	20.6	24.9	22.2	22.9	93.9	27.2	64.5	18.5	184	46	43.3
MAD i	4.12	9.45	13.3	8.5	8.4	41	7.67	8.5	8.25	12	5.6	5
IQR i	6.67	15.7	20.8	13	17	92.7	14.6	48.6	13.3	21.5	11.8	17
Robust CV % i	73	82	74	56	67	80	69	65	83	12	37	55
Median f	8.13	19.1	28.0	23.0	25.4	116	19.0	76.2	16.0	189	28.8	29.0
Mean f	8.25	20.6	24.9	22.2	22.9	93.9	17.1	75.6	18.5	189	29.8	28.9
MAD f	3.97	9.45	13.3	8.5	8.4	41	6.33	5.2	8.25	10	3.55	2.4
IQR f	6.15	15.7	20.8	13	17	92.7	11.2	8.84	13.3	15.6	5.17	3.93
Robust CV % f	76	82	74	56	67	80	59	12	83	8.2	18	14
Outliers	2	0	0	0	0	0	1	4	0	4	1	2
Stragglers	0	0	0	0	0	0	0	1	0	0	2	3

## 2005-06: Water soluble Cl — autocolour (5A2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	11	11	11	11	12	12	12	12	14	14	14	14
Minimum	0.62	3	10	3	15	45	12.67	33	2.3	0	15	20
Maximum	17.4	27.1	63.7	40.8	77.9	288	64	116	320	206	88	95
Median i	4.20	15.0	18.8	15.0	22.0	121	18.5	72.6	8.52	184	26.5	27.5
Mean i	7.07	16.4	21.8	18.7	27.6	128	26.0	76.3	41.2	161	31.5	32.8
MAD i	2.96	3	2.8	5	3	2.25	5	2.7	5.89	10	3.5	3.2
IQR i	7.04	5.78	3.71	11.1	8.15	4.17	8.21	5.93	21.1	29.3	5.37	6.54
Robust CV % i	170	39	20	74	37	3.4	44	8.2	250	16	20	24
Median f	4.20	15.0	16.0	14.5	20.2	121	17.8	72.3	3.5	186	26.0	26.0
Mean f	7.07	16.4	16.3	16.5	20.1	121	18.7	73.5	6.05	189	25.6	25.7
MAD f	2.96	3	3	4.45	1.8	1	3.3	1.3	1.2	4	3.05	2
IQR f	7.04	5.78	3.71	10.6	3.42	2.41	7.28	4.48	4.11	10.7	5.02	3.71
Robust CV % f	170	39	23	73	17	2	41	6.2	120	5.8	19	14
Outliers	0	0	1	1	2	2	2	3	3	2	2	2
Stragglers	0	0	1	0	1	1	0	0	2	2	0	1

## 2005-06: Water soluble Cl — pooled (5A1 + 5A2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	26	26	26	26	23	23	23	23	29	29	29	29
Minimum	0	0	0	0	0.11	0.43	0.1	0.28	2.25	0	15	20
Maximum	45.3	50	63.7	40.8	77.9	288	128	118	320	535	226	149
Median i	7.62	18.5	19.0	19.0	22.0	121	19.0	73.0	16.0	184	28.0	29.0
Mean i	10.1	18.8	23.6	20.8	25.4	112	26.6	70.7	29.5	173	39.0	38.2
MAD i	4.62	5.35	9	8.95	5	7	5	6	9.7	13	4.3	3.4
IQR i	7.1	7.71	14.6	13.8	11.1	8.9	8.23	8.67	15.3	24.8	8.15	11
Robust CV % i	93	42	77	73	51	7.4	43	12	95	13	29	38
Median f	6.45	18.0	19.0	19.0	21.1	121	18.0	72.6	12.1	186	26.4	28.0
Mean f	7.71	17.6	22	20.8	20.9	120	18.8	73.7	14.5	188	26.5	27.2
MAD f	4.38	4.8	9	8.95	4.2	3.25	3.9	2.15	8.75	8.05	2.9	2
IQR f	6.89	7.09	13.8	13.8	6.36	4.82	6.75	5.37	13.2	13.5	4.56	3.3
Robust CV % f	110	39	73	73	30	4	37	7.4	110	7.3	17	12
Outliers	2	1	1	0	3	9	3	8	2	6	5	7
Stragglers	0	0	0	0	2	0	1	1	1	1	2	1

## 2005-06: Organic Carbon — W&B (6A1) %C

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	17	17	17	17	15	15	15	15	20	20	20	20
Minimum	1.42	4.17	0.38	2.16	4	0.814	1.98	0.832	0.62	0.6	1.12	0.08
Maximum	2.59	5.38	2.33	5.09	5.32	1.67	2.71	1.21	3.03	2.51	7.92	1.43
Median i	1.62	4.67	0.572	2.44	4.81	1.10	2.35	0.990	1.29	1.01	3.37	0.589
Mean i	1.70	4.76	0.689	2.58	4.76	1.15	2.37	1.01	1.36	1.05	3.28	0.591
MAD i	0.1	0.19	0.095	0.1	0.1	0.17	0.15	0.1	0.165	0.105	0.135	0.0765
IQR i	0.17	0.425	0.169	0.196	0.17	0.252	0.208	0.163	0.226	0.156	0.371	0.122
Robust CV % i	11	9.1	30	8.1	3.5	23	8.8	16	18	15	11	21
Median f	1.60	4.67	0.571	2.44	4.82	1.1	2.35	0.99	1.28	1	3.4	0.59
Mean f	1.62	4.76	0.586	2.43	4.83	1.15	2.37	1.01	1.27	0.971	3.41	0.589
MAD f	0.093	0.19	0.091	0.095	0.08	0.17	0.15	0.1	0.16	0.1	0.11	0.06
IQR f	0.148	0.425	0.16	0.146	0.135	0.252	0.208	0.163	0.215	0.156	0.193	0.0964
Robust CV % f	9.2	9.1	28	6	2.8	23	8.8	16	17	16	5.7	16
Outliers	2	0	1	1	3	0	0	0	1	1	5	2
Stragglers	0	0	0	0	0	0	0	0	0	0	0	1

## 2005-06: Organic Carbon — Other %C

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	2	2	2	2	2	2	2	2	2	2	2	2
Minimum	1.51	4.36	0.525	2.24	4.46	0.971	2.19	1	1.38	0.68	2.87	0.2
Maximum	2.4	9.6	0.8	4.9	5.5	1.5	3.5	1.7	1.73	0.998	3.4	0.732
Median i	1.96	6.98	0.663	3.57	4.98	1.24	2.85	1.35	1.56	0.839	3.14	0.466
Mean i	1.96	6.98	0.663	3.57	4.98	1.24	2.85	1.35	1.56	0.839	3.14	0.466
MAD i	0.445	2.62	0.138	1.33	0.52	0.265	0.655	0.35	0.175	0.159	0.265	0.266

## 2005-06: Organic Carbon — pooled (6A1 + other) %C

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	121	122	123	124	31	32	33	34	51	52	53	54
No of results	19	19	19	19	17	17	17	17	22	22	22	22
Minimum	1.42	4.17	0.38	2.16	4	0.814	1.98	0.832	0.62	0.6	1.12	0.08
Maximum	2.59	9.6	2.33	5.09	5.5	1.67	3.5	1.7	3.03	2.51	7.92	1.43
Median i	1.62	4.67	0.572	2.44	4.81	1.10	2.35	1.00	1.31	0.999	3.37	0.589
Mean i	1.73	4.99	0.686	2.69	4.79	1.16	2.42	1.05	1.37	1.03	3.27	0.58
MAD i	0.1	0.24	0.095	0.16	0.13	0.17	0.16	0.09	0.165	0.105	0.135	0.086
IQR i	0.2	0.526	0.176	0.274	0.204	0.259	0.276	0.17	0.235	0.174	0.424	0.138
Robust CV % i	12	11	31	11	4.2	24	12	17	18	17	13	23
Median f	1.60	4.65	0.571	2.43	4.81	1.10	2.34	0.995	1.31	0.998	3.40	0.590
Mean f	1.61	4.73	0.595	2.42	4.80	1.16	2.36	1.01	1.33	0.958	3.44	0.581
MAD f	0.0865	0.195	0.091	0.09	0.1	0.17	0.155	0.085	0.125	0.098	0.09	0.07
IQR f	0.15	0.413	0.162	0.167	0.145	0.259	0.243	0.146	0.221	0.175	0.148	0.104
Robust CV % f	9.4	8.9	28	6.9	3	24	10	15	17	18	4.4	18
Outliers	3	1	1	2	3	0	1	1	2	1	5	3
Stragglers	0	0	0	0	1	0	0	0	0	0	2	0

## 2005-06: Total Organic Carbon — Heanes (6B1) %C

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	121	122	123	124	31	32	33	34	51	52	53	54
No of results	4	4	4	4	4	4	4	4	3	3	3	3
Minimum	1.52	4.68	0.58	2.29	4.52	0.97	2.06	0.95	1.42	1.1	3.68	0.63
Maximum	1.85	5.06	0.667	2.62	5.65	1.3	2.8	1.25	1.73	1.59	4.82	1.09
Median i	1.81	4.97	0.641	2.46	4.85	1.12	2.61	1.03	1.60	1.11	3.70	0.740
Mean i	1.75	4.92	0.632	2.46	4.97	1.13	2.52	1.06	1.58	1.27	4.07	0.820
MAD i	0.033	0.0475	0.0185	0.134	0.29	0.085	0.1	0.05	0.13	0.01	0.02	0.11

## 2005-06: Total Organic Carbon — HF Induction, IR (6B3) %C

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	9	9	9	9	8	8	8	8	8	8	8	8
Minimum	1.45	4.23	0.42	2.43	3.86	0.78	2.3	0.85	0.821	1	2.93	0.52
Maximum	1.99	6.29	0.68	3.23	5.61	1.28	2.72	1.09	1.57	1.19	4.2	0.67
Median i	1.84	5.20	0.581	2.54	5.44	1.14	2.63	1.04	1.46	1.10	4.03	0.647
Mean i	1.79	5.27	0.577	2.61	5.27	1.10	2.59	1.02	1.37	1.09	3.91	0.634
MAD i	0.09	0.12	0.016	0.07	0.095	0.045	0.07	0.045	0.095	0.03	0.11	0.016
IQR i	0.167	0.393	0.0234	0.0927	0.15	0.0649	0.107	0.089	0.139	0.0834	0.206	0.0287
Robust CV % i	9.1	7.6	4	3.6	2.8	5.7	4.1	8.6	9.6	7.6	5.1	4.4
Median f	1.84	5.20	0.581	2.54	5.48	1.14	2.63	1.04	1.49	1.10	4.03	0.652
Mean f	1.79	5.28	0.585	2.54	5.47	1.15	2.59	1.02	1.45	1.09	4.05	0.650
MAD f	0.09	0.11	0.014	0.05	0.09	0.04	0.07	0.045	0.07	0.03	0.09	0.012
IQR f	0.167	0.259	0.0222	0.0871	0.148	0.0667	0.107	0.089	0.141	0.0834	0.111	0.0185
Robust CV % f	9.1	5	3.8	3.4	2.7	5.9	4.1	8.6	9.5	7.6	2.8	2.8
Outliers	0	2	2	1	1	1	0	0	1	0	1	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Total Organic Carbon — Other % C

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	5	5	5	5	4	4	4	4	4	4	4	4
Minimum	1.4	4.22	0.5	2.27	4.5	1.04	2.29	0.862	0.003	0.0022	0.007	0.003
Maximum	1.9	5.7	0.6	2.8	5.6	1.15	2.66	1.03	1.58	1.21	3.64	0.679
Median i	1.53	5.30	0.520	2.58	5.09	1.08	2.49	0.980	1.21	0.968	1.72	0.582
Mean i	1.62	5.06	0.547	2.53	5.07	1.09	2.48	0.963	1.00	0.787	1.77	0.461
MAD i	0.13	0.4	0.02	0.18	0.48	0.03	0.095	0.035	0.195	0.133	1.64	0.053

## 2005-06: Total Organic Carbon — pooled (6B1 + 6B2 + 6B3 + Other) %C

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	21	21	21	21	20	20	20	20	17	17	17	16
Minimum	1.4	4.22	0.42	2.27	3.86	0.78	2.06	0.85	0.003	0.002	0.007	0.003
Maximum	1.99	6.29	0.68	3.23	5.66	1.3	2.8	1.25	1.73	1.59	4.82	1.09
Median i	1.84	5.13	0.597	2.56	5.38	1.14	2.62	1.03	1.49	1.10	3.99	0.646
Mean i	1.75	5.14	0.584	2.57	5.20	1.12	2.57	1.02	1.34	1.06	3.46	0.626
MAD i	0.08	0.17	0.023	0.07	0.205	0.045	0.06	0.035	0.09	0.09	0.22	0.025
IQR i	0.226	0.319	0.0308	0.13	0.593	0.0612	0.115	0.0704	0.204	0.122	0.5	0.0528
Robust CV % i	12	6.2	5.2	5.1	11	5.4	4.4	6.9	14	11	13	8.2
Median f	1.848	5.135	0.599	2.565	5.49	1.14	2.63	1.03	1.49	1.1	4.01	0.65
Mean f	1.84	5.18	0.597	2.56	5.46	1.14	2.63	1.03	1.46	1.10	3.98	0.647
MAD f	0.045	0.16	0.019	0.06	0.12	0.04	0.04	0.03	0.08	0.04	0.19	0.02
IQR f	0.0797	0.255	0.0222	0.0964	0.185	0.0612	0.0815	0.0445	0.17	0.104	0.347	0.0315
Robust CV % f	4.3	5	3.7	3.8	3.4	5.4	3.1	4.3	11	9.4	8.6	4.8
Outliers	2	3	2	2	3	1	3	3	2	2	3	3
Stragglers	3	0	2	1	2	1	0	0	0	0	0	0

## 2005-06: Total N — Kjeldahl, steam distillation (7A1) %N

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	10	10	10	10	7	7	7	7	11	11	11	11
Minimum	0.001	0.005	0.007	0.001	0.005	0.012	0	0.0151	0.01	0.01	0.02	0.01
Maximum	0.2	0.503	0.078	0.244	0.69	0.16	0.182	0.115	0.14	0.36	0.28	0.16
Median i	0.151	0.449	0.066	0.159	0.483	0.112	0.147	0.085	0.089	0.140	0.256	0.052
Mean i	0.125	0.358	0.056	0.124	0.450	0.108	0.138	0.074	0.088	0.145	0.210	0.060
MAD i	0.014	0.040	0.0085	0.046	0.013	0.01	0.023	0.0197	0.018	0.01	0.018	0.015
IQR i	0.0637	0.201	0.0274	0.14	0.0519	0.0297	0.0274	0.0393	0.0286	0.0274	0.119	0.0245
Robust CV % i	42	45	42	88	11	26	19	46	32	20	47	47
Median f	0.160	0.472	0.068	0.159	0.483	0.116	0.158	0.085	0.089	0.140	0.270	0.050
Mean f	0.154	0.469	0.067	0.124	0.491	0.124	0.162	0.074	0.088	0.137	0.267	0.050
MAD f	0.0125	0.028	0.005	0.046	0.011	0.01	0.0135	0.02	0.018	0.01	0.004	0.014
IQR f	0.0176	0.046	0.0078	0.14		0.0285	0.0256	0.0393	0.0286	0.0208	0.0133	0.0229
Robust CV % f	11	9.8	11	88		25	16	46	32	15	4.9	46
Outliers	2	2	2	0	2	1	1	0	0	2	3	1
Stragglers	0	1	0	0		0	0	0	0	0	1	0

## 2005-06: Total N — Kjeldahl, autocolour (7A2) %N

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	9	9	9	9	9	9	9	9	8	8	8	8
Minimum	0.14	0.069	0.061	0.164	0.405	0.103	0.104	0.073	0.074	0.118	0.22	0.041
Maximum	0.197	0.565	0.084	0.205	5800	1200	1800	870	0.21	0.16	0.387	0.079
Median i	0.160	0.430	0.066	0.181	0.517	0.121	0.167	0.088	0.093	0.1395	0.2705	0.057
Mean i	0.165	0.423	0.069	0.182	645	133	200	96.7	0.105	0.142	0.28	0.059
MAD i	0.007	0.052	0.004	0.009	0.024	0.011	0.009	0.007	0.009	0.011	0.0145	0.0064
IQR i	0.0163	0.0608	0.0095	0.0137	0.0593	0.0159	0.0185	0.0174	0.0154	0.0161	0.0339	0.0116
Robust CV % i	10	14	14	7.6	11	13	11	20	17	12	13	20
Median f	0.160	0.456	0.066	0.181	0.517	0.119	0.167	0.087	0.090	0.140	0.271	0.057
Mean f	0.161	0.468	0.069	0.182	0.530	0.122	0.167	0.089	0.090	0.142	0.273	0.0585
MAD f	0.0055	0.036	0.004	0.009	0.009	0.009	0.008	0.0054	0.0082	0.011	0.0075	0.0064
IQR f	0.0106	0.0534	0.0095	0.0137	0.0511	0.0148	0.0126	0.0141	0.0133	0.0161	0.0187	0.0116
Robust CV % f	6.6	12	14	7.6	9.9	12	7.5	16	15	12	6.9	20
Outliers	1	1	0	0	1	1	2	1	1	0	1	0
Stragglers	0	0	0	0	1	0	0	0	0	0	1	0

## 2005-06: Total N — part-pool (7A1 + 7A2) %N

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	19	19	19	19	16	16	16	16	19	19	19	19
Minimum	0.001	0.005	0.007	0.001	0.005	0.012	0	0.015	0.01	0.01	0.02	0.01
Maximum	0.2	0.565	0.084	0.244	5800	1200	1800	870	0.21	0.36	0.387	0.16
Median i	0.160	0.438	0.066	0.178	0.5105	0.1185	0.164	0.086	0.090	0.140	0.266	0.054
Mean i	0.144	0.389	0.062	0.152	363	75.1	113	54.5	0.095	0.144	0.240	0.059
MAD i	0.01	0.044	0.005	0.012	0.034	0.0145	0.0165	0.0135	0.0098	0.01	0.014	0.011
IQR i	0.0193	0.0675	0.0089	0.0341	0.0689	0.0193	0.0235	0.0202	0.017	0.017	0.04	0.0153
Robust CV % i	12	15	13	19	14	16	14	23	19	12	15	28
Median f	0.16	0.472	0.068	0.184	0.508	0.1185	0.164	0.086	0.09	0.14	0.27	0.0535
Mean f	0.159	0.468	0.070	0.183	0.505	0.123	0.16	0.086	0.091	0.142	0.267	0.054
MAD f	0.0055	0.031	0.0046	0.006	0.025	0.011	0.0155	0.009	0.009	0.01	0.0055	0.011
IQR f	0.0107	0.0519	0.0085	0.011	0.0382	0.0178	0.0217	0.0161	0.0126	0.0163	0.0115	0.015
Robust CV % f	6.7	11	12	6	7.5	15	13	19	14	12	4.3	28
Outliers	3	3	3	5	3	2	2	2	3	3	5	1
Stragglers	2	1	0	1	0	0	0	0	0	0	2	0

## 2005-06: Total N – Dumas %N

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	18	18	18	18	17	17	17	17	17	17	17	17
Minimum	0.124	0.406	0.05	0.154	0.443	0.084	0.145	0.067	0.07	0.106	0.024	0.03
Maximum	0.173	0.63	0.09	0.22	0.59	0.148	0.2	0.11	0.13	0.168	0.32	0.08
Median i	0.160	0.480	0.068	0.174	0.542	0.120	0.170	0.090	0.091	0.143	0.289	0.052
Mean i	0.157	0.486	0.068	0.177	0.539	0.118	0.169	0.091	0.095	0.140	0.270	0.055
MAD i	0.01	0.02	0.0065	0.0065	0.012	0.009	0.01	0.01	0.011	0.011	0.021	0.012
IQR i	0.0161	0.0269	0.0078	0.0096	0.023	0.0145	0.0182	0.0204	0.017	0.0148	0.0282	0.0196
Robust CV % i	10	5.6	12	5.6	4.2	12	11	23	19	10	9.7	38
Median f	0.16	0.48	0.0675	0.171	0.543	0.12	0.17	0.09	0.091	0.143	0.289	0.052
Mean f	0.157	0.477	0.068	0.173	0.545	0.118	0.169	0.091	0.095	0.14	0.286	0.055
MAD f	0.010	0.020	0.007	0.007	0.011	0.009	0.010	0.010	0.011	0.011	0.017	0.012
IQR f	0.0161	0.0278	0.0078	0.00797	0.02	0.0145	0.0182	0.0204	0.017	0.0148	0.0278	0.0196
Robust CV % f	10	5.8	12	4.7	3.7	12	11	23	19	10	9.6	38
Outliers	0	1	0	2	1	0	0	0	0	0	1	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Total N — full-pool (7A1 + 7A2 + Dumas) %N

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	38	38	38	38	33	33	33	33	36	36	36	36
Minimum	0.001	0.005	0.007	0.001	0.005	0.012	0	0.015	0.01	0.01	0.02	0.01
Maximum	0.2	0.63	0.09	0.244	5800	1200	1800	870	0.21	0.36	0.387	0.16
Median i	0.160	0.476	0.066	0.176	0.534	0.120	0.167	0.088	0.091	0.140	0.271	0.054
Mean i	0.149	0.433	0.065	0.163	176	36.5	54.7	26.4	0.095	0.142	0.254	0.057
MAD i	0.01	0.026	0.0055	0.0115	0.026	0.01	0.014	0.012	0.01	0.01	0.0185	0.012
IQR i	0.02	0.0524	0.0088	0.0176	0.0411	0.017	0.0222	0.0182	0.0161	0.0148	0.0284	0.0174
Robust CV % i	13	11	13	10	7.7	14	13	21	18	11	10	33
Median f	0.160	0.478	0.067	0.176	0.535	0.120	0.169	0.089	0.090	0.140	0.275	0.053
Mean f	0.159	0.470	0.067	0.177	0.532	0.120	0.167	0.090	0.092	0.140	0.277	0.054
MAD f	0.01	0.022	0.0055	0.0073	0.0195	0.009	0.0115	0.009	0.0096	0.01	0.014	0.012
IQR f	0.0137	0.046	0.0086	0.0119	0.0291	0.0145	0.0206	0.017	0.0126	0.0148	0.0202	0.0178
Robust CV % f	8.6	9.6	13	6.7	5.4	12	12	19	14	11	7.3	34
Outliers	5	6	4	7	4	3	3	2	4	4	5	1
Stragglers	0	1	0	2	1	1	0	1	0	0	1	0



## 2005-06: Water Soluble Nitrate N— autocolour (7B1) mg/kg dry wt

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	12	12	12	12	12	12	13	13	12	13	13	13
Minimum	0.135	0	3.16	0.064	0.15	0.114	0	41	5.7	0.3	0.03	0.53
Maximum	49	120	37	8.4	61	6.02	2.84	176	191	179	4.9	36.8
Median i	39.0	104	28.3	6.10	52.5	5.22	0.30	129	23.9	159	3.10	28.0
Mean i	33.9	83.4	25.1	5.37	46.4	4.55	0.67	123	36.2	132	2.65	24.9
MAD i	1.6	11.2	2.5	1.25	4.96	0.485	0.2	31	0.926	19	0.684	1
IQR i	3.74	58.2	4.08	2.74	10.7	0.89	0.617	48.1	4.08	62.3	1.81	5.69
Robust CV % i	9.6	56	14	45	20	17	210	37	17	39	58	20
Median f	39.0	107	29.5	6.20	54.5	5.26	0.30	129	23.8	168	3.10	28.0
Mean f	38.9	108	29.3	5.85	52.8	5.35	0.328	123	23.6	161	2.65	27.8
MAD f	1	8	1.73	1.2	3	0.435	0.125	31	0.149	9.5	0.684	0
IQR f	1.92	8.68	3.21	1.85	6.67	0.556	0.227	48.1	0.741	24.8	1.81	0.741
Robust CV % f	4.9	8.1	11	30	12	11	76	37	3.1	15	58	2.6
Outliers	3	3	2	1	2	2	2	0	5	3	0	5
Stragglers	0	0	0	0	0	0	1	0	0	0	0	1

## 2005-06: KCl Extractable Nitrate N — autocolour (7C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	20	20	20	20	19	19	19	19	21	21	21	21
Minimum	32.4	62.5	21.4	3.9	5.76	1.3	0	29.6	7	18	2.37	2.8
Maximum	84	117	60	24	56	7	2	165	29.1	210	4.9	31
Median i	38.2	101	27.0	5.85	51.6	5.40	0.30	149	24.0	176	3.20	27.8
Mean i	40.0	98.7	28.2	7.30	46.5	5.16	0.55	138	22.8	159	3.35	26.0
MAD i	1.5	5.35	1	0.6	1.6	0.2	0.2	5	1.5	10	0.37	1.2
IQR i	2.26	10.8	2.15	1.05	4.52	0.445	0.618	7.41	2.3	25	0.656	2.1
Robust CV % i	5.9	11	8	18	8.8	8.2	210	5	9.6	14	21	7.5
Median f	38.2	101	27.0	5.80	52.0	5.50	0.30	150	24.0	179	3.15	28.0
Mean f	38	101	27	5.7	51.5	5.52	0.47	150	24.1	182	3.20	28.2
MAD f	1.15	5	1	0.49	2	0.1	0.2	4.5	0.96	5	0.32	1
IQR f	2.04	7.93	1.37	0.645	2.28	0.23	0.587	7.04	1.56	8.15	0.497	2.08
Robust CV % f	5.3	7.9	5.1	11	4.4	4.2	200	4.7	6.5	4.6	16	7.4
Outliers	1	1	3	3	3	4	1	3	2	4	1	2
Stragglers	1	0	0	0	0	2	0	0	1	2	1	0

## 2005-06: KCl Ext. Ammonium N — autocolour (7C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	23	23	23	23	25	25	25	25	26	26	26	26
Minimum	11.9	5.3	10.6	11.9	6.3	2	7.9	2.7	6.7	3.71	7.6	1.6
Maximum	48	67	47	54	40	24.7	45.6	20.6	68	140	360	34
Median i	20.7	8.80	19.9	17.5	31.5	17.1	37.0	13.0	16.0	35.0	37.8	9.25
Mean i	22.3	12.3	21.1	19.8	29.5	15.9	34.3	12.4	16.8	35.7	45.6	10.2
MAD i	1.3	1.2	1.1	0.72	1.5	1.5	2	1	1.51	4	1.76	0.85
IQR i	1.93	2	1.93	1.26	2.59	2.08	3.19	1.59	3.28	10.2	3.78	1.35
Robust CV % i	9.3	23	9.7	7.2	8.2	12	8.6	12	21	29	10	15
Median f	20.4	8.70	19.8	17.4	31.8	18.0	38.0	13.0	16.0	36.1	38.0	9.06
Mean f	20.4	8.58	19.7	17.5	31.7	17.9	37.8	13.3	15.5	35.4	38.0	9.16
MAD f	0.95	1.2	1.2	0.59	1.1	1	1.5	0.5	1.4	2.4	0.4	0.84
IQR f	1.47	1.93	1.82	0.797	1.67	1.48	2.08	0.89	2.74	3.74	0.371	1.26
Robust CV % f	7.2	22	9.2	4.6	5.3	8.2	5.5	6.8	17	10	0.98	14
Outliers	3	2	3	4	7	5	6	5	3	4	7	4
Stragglers	2	0	0	3	0	1	0	1	0	4	4	0

## 2005-06: Total P – all methods including 9A1 (%P)

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	26	26	26	26	21	21	21	21	23	23	23	23
Minimum	0.0034	0.001	0.0008	0.0024	0.0010	0.001	0.0012	0.0043	0.01	0.03	0.0108	0.01
Maximum	347	1950	231	245	0.2	0.131	0.044	0.044	286	1230	549	361
Median i	0.039	0.184	0.020	0.026	0.180	0.114	0.025	0.022	0.033	0.120	0.061	0.040
Mean i	13.4	75.2	8.90	9.46	0.168	0.109	0.025	0.021	12.5	53.6	23.9	15.7
MAD i	0.0022	0.0225	0.0018	0.0023	0.01	0.006	0.0022	0.002	0.005	0.014	0.008	0.005
IQR i	0.0038	0.046	0.0023	0.0038	0.017	0.0093	0.0034	0.0036	0.0064	0.0215	0.0187	0.0074
Robust CV % i	9.9	25	12	15	9.5	8.1	14	17	19	18	31	19
Median f	0.038	0.193	0.020	0.026	0.186	0.117	0.025	0.022	0.032	0.120	0.060	0.040
Mean f	0.039	0.192	0.019	0.025	0.181	0.116	0.025	0.022	0.032	0.121	0.060	0.039
MAD f	0.002	0.0115	0.0006	0.0019	0.011	0.005	0.002	0.0012	0.0020	0.012	0.005	0.0029
IQR f	0.0024	0.0172	0.0017	0.003	0.015	0.0089	0.003	0.0023	0.0046	0.017	0.0074	0.0047
Robust CV % f	6.3	9	8.6	12	8.1	7.6	12	11	14	14	12	12
Outliers	5	5	4	4	3	2	2	3	5	8	6	7
Stragglers	0	3	2	1	0	0	0	0	2	0	1	0

## 2005-06: Colwell Extractable P – manual (9B1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	12	12	12	12	12	12	12	12	13	13	13	13
Minimum	9.83	20.8	4.88	7.87	64.6	209	7	28.1	47.8	87	8.92	41.1
Maximum	44.5	173	12.4	32.5	197	422	41.9	67.9	279	863	94.4	87.2
Median i	32.6	129	7.69	16.9	100	348	11.9	53.0	60.4	171	15.2	49.0
Mean i	32.8	126	7.63	18.9	106	329	14.1	53.1	81.9	229	21.5	54.3
MAD i	4.95	26.5	1.68	2.64	12.5	57.5	2.67	3.25	4	34	4.9	5.92
IQR i	9.49	39.3	2.24	6.6	21.3	103	4.33	5.19	13.4	60.5	7.89	13.6
Robust CV % i	29	30	29	39	21	30	36	9.8	22	35	52	28
Median f	32.6	129	7.69	16.7	96.7	348	10.8	53.0	60.0	170	15.1	48.9
Mean f	32.8	126	7.63	16.8	97.6	329	11.6	54.2	61.9	176	15.4	51.6
MAD f	4.95	26.5	1.68	1.7	9.7	57.5	2.2	2.75	3.6	29.6	4.45	5.81
IQR f	9.49	39.3	2.24	3.61	18.5	103	3.4	4.45	9.34	44.8	7.14	11.6
Robust CV % f	29	30	29	22	19	30	31	8.4	16	26	47	24
Outliers	0	0	0	1	1	0	1	1	2	1	1	1
Stragglers	0	0	0	1	0	0	0	1	0	0	0	0

## 2005-06: Colwell Extractable P – autocolour (9B2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	10	10	10	10	9	9	9	9	9	9	9	9
Minimum	24.7	102	4.47	10	13	36	0.81	5.9	28	73	8.9	25
Maximum	46.2	200	22.1	28.1	113	380	33	57	78	255	15	58
Median i	29.7	134	6.46	16.7	89.0	351	10.4	46.0	56.0	180	12.0	48.0
Mean i	32.2	134	8.09	16.4	86.2	321	11.5	42.6	58.5	174	12.0	46.8
MAD i	3	10.5	0.77	3.25	10.2	8	0.7	0.2	4	34	1.4	5
IQR i	7.16	23.5	1.67	4.78	13	13.3	2.08	1.41	15.7	76.4	2.27	7.02
Robust CV % i	24	17	26	29	15	3.8	20	3.1	28	42	19	15
Median f	28.4	128	6.40	16.7	94.1	354	10.4	46.0	55.3	180	12.0	48.0
Mean f	30.6	127	6.53	16.4	95.4	357	9.93	46.0	57.2	174	12.0	46.8
MAD f	2.6	14	0.73	3.25	8	6.5	0.6	0	2.69	34	1.4	5
IQR f	5.39	24.2	1.27	4.78	12.3	12.2	1.7		6.33	76.4	2.27	7.02
Robust CV % f	19	19	20	29	13	3.5	16		11	42	19	15
Outliers	1	1	1	0	1	1	2	3	3	0	0	0
Stragglers	0	0	0	0	0	0	0	1	0	0	0	0

## 2005-06: Colwell Extractable P — pooled (9B1 + 9B2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	22	22	22	22	21	21	21	21	22	22	22	22
Minimum	9.83	20.8	4.47	7.87	13	36	0.81	5.9	28	73	8.9	25
Maximum	46.2	200	22.1	32.5	197	422	41.9	67.9	279	863	94.4	87.2
Median i	31.8	131	6.86	16.9	96.7	351	10.5	49.5	59.3	176	13.0	48.9
Mean i	32.5	129	7.84	17.8	97.4	326	13.0	48.6	72.3	206	17.6	51.2
MAD i	4.57	18	1.17	3.15	9.9	31	2.5	3.5	6.99	30.6	2.55	5.45
IQR i	7.83	29.5	2.11	5.26	16.8	70.4	3.29	7.19	14.4	54.5	4.82	8.12
Robust CV % i	25	22	31	31	17	20	31	15	24	31	37	17
Median f	32.0	135	6.46	16.8	96.7	360	10.4	49.5	58.6	176	12.9	48.8
Mean f	33.6	135	6.89	17.1	96.6	367	10.5	50.1	62.1	175	13.4	49.7
MAD f	4.54	20.3	1.1	3.08	9.7	18.5	1.48	3.5	5.4	30.5	2.3	4.2
IQR f	8.12	28.7	1.64	4.08	14.2	27.4	2.4	6.08	10.4	47.5	3.54	6.4
Robust CV % f	25	21	25	24	15	7.6	23	12	18	27	28	13
Outliers	1	1	2	1	2	3	2	4	3	1	2	2
Stragglers	0	0	0	0	0	2	2	0	0	0	0	1

## 2005-06: Olsen Extractable P — manual (9C1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	9	9	9	9	6	6	6	6	8	8	8	8
Minimum	0.73	2.6	0.38	0.39	23	104	5	16.1	17	0	0	18
Maximum	33.2	58.4	6.98	12	44.9	230	13.1	35.5	50	99	14.1	33
Median i	13.1	41.0	3.20	8.00	33.0	145	8.37	25.7	21.9	46.8	6.15	22.7
Mean i	14.9	37.3	3.18	8.03	34.4	155	9.02	25.3	27.4	47.7	6.18	23.3
MAD i	3.8	5.2	0.8	1.39	6.1	34.5	2.67	3.3	4.65	6.35	2.05	1.65
IQR i	4.1	10.1	1.15	3.37	10.8	63.9	5.11	7.26	13.8	9.25	4.39	3.09
Robust CV % i	31	25	36	42	33	44	61	28	63	20	71	14
Median f	13.1	41.8	3.20	8.00	33.0	145	8.37	25.7	20.8	46.8	6.15	22.4
Mean f	12.7	41.7	3.18	8.99	34.4	155	9.02	25.3	24.2	47.2	6.18	21.9
MAD f	2.95	4.93	0.8	1.2	6.1	34.5	2.67	3.3	3.3	5	2.05	1
IQR f	4.2	9.5	1.15	3.32	10.8	63.9	5.11	7.26	11.5	8.02	4.39	2.52
Robust CV % f	32	23	36	41	33	44	61	28	55	17	71	11
Outliers	1	1	0	1	0	0	0	0	1	2	0	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Olsen Extractable P — autocolour (9C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	7	7	7	7	8	8	8	8	8	8	8	8
Minimum	10.3	25.3	0.4	5.39	22	148	2.6	19.6	15	38	3.4	12
Maximum	14	40.7	5.51	8.5	36	214	7.3	26	26	58	6.7	44
Median i	12.0	33.5	2.00	6.90	26.0	168	4.33	20.9	19.2	50.3	4.60	19.9
Mean i	12.2	33.5	2.45	6.93	27.2	173	4.45	21.6	19.5	50.1	4.72	21.9
MAD i	1.5	2.7	0.86	1.3	1.65	14.5	1.03	0.85	1.22	2.8	0.77	2.23
IQR i	2.52	5.34	2.12	2.02	4.54	20.9	1.66	1.85	2.18	5.85	1.37	4.34
Robust CV % i	21	16	110	29	17	12	38	8.9	11	12	30	22
Median f	12.0	33.5	2.00	6.90	25.0	168	4.33	20.8	18.8	50.3	4.60	19.7
Mean f	12.2	33.5	2.45	6.93	26.0	173	4.45	21.0	18.6	50.1	4.72	18.7
MAD f	1.5	2.7	0.86	1.3	2	14.5	1.03	0.8	1.2	2.8	0.77	1.35
IQR f	2.52	5.34	2.12	2.02	2.45	20.9	1.66	1.26	1.8	5.85	1.37	3.71
Robust CV % f	21	16	110	29	9.8	12	38	6.1	9.6	12	30	19
Outliers	0	0	0	0	1	0	0	1	1	0	0	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Olsen Extractable P — Pooled (9C1 + 9C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	16	16	16	16	14	14	14	14	16	16	16	16
Minimum	0.73	2.6	0.38	0.39	22	104	2.6	16.1	15	0	0	12
Maximum	33.2	58.4	6.98	12	44.9	230	13.1	35.5	50	99	14.1	44
Median i	13.0	35.7	2.50	7.48	28.7	167	5.38	21.4	20.1	48.4	5.10	21.4
Mean i	13.7	35.7	2.86	7.55	30.3	165	6.41	23.2	23.5	48.9	5.45	22.6
MAD i	1.65	4.95	0.98	0.945	4.15	18.5	1.95	1.7	2.52	4.75	1.27	1.95
IQR i	3.71	7.86	1.4	1.49	7.34	31.1	3.2	4.32	5.52	7.06	2.09	2.99
Robust CV % i	29	22	56	20	26	19	59	20	28	15	41	14
Median f	13.0	35.7	2.40	7.18	28.7	167	5.38	21.0	19.5	48.4	5.00	21.0
Mean f	13.3	36.4	2.58	7.14	30.3	165	6.41	21.8	19.6	48.9	4.87	21.0
MAD f	1.15	4.52	1	0.8	4.15	18.5	1.95	1.2	1.5	4.6	1.2	1.8
IQR f	2.37	7.12	1.16	1.15	7.34	31.1	3.2	2.65	2.49	5.91	1.88	2.72
Robust CV % f	18	20	48	16	26	19	59	13	13	12	38	13
Outliers	2	2	1	3	0	0	0	1	3	2	1	3
Stragglers	0	0	0	1	0	0	0	1	0	0	0	0

## 2005-06: Bray-1 Extractable P — manual (9E1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	12	12	12	12	8	8	8	8	8	8	8	8
Minimum	1.2	1.3	1.07	0.8	2.88	67	1.85	21.2	12	16.5	0.6	8.7
Maximum	60	154	5.82	28	14.5	322	6	57	128	155	7	35
Median i	20.0	39.2	2.70	9.90	5.85	204	4.22	39.0	66.2	101	5.97	27.9
Mean i	22.8	46.3	2.92	11.4	6.45	190	4.04	40.8	63.7	97.7	5.34	26.3
MAD i	5.65	12.4	0.75	2.62	1.52	41.1	0.83	9.95	13.1	38.4	0.73	4.4
IQR i	13.4	24	1.69	4.35	3.08	109	1.16	15.1	26.3	60.6	1.18	7.72
Robust CV % i	67	61	62	44	53	53	28	39	40	60	20	28
Median f	20.0	38.3	2.70	9.80	5.80	204	4.22	39.0	66.2	101	6.00	27.9
Mean f	19.4	36.6	2.92	9.87	5.30	190	4.04	40.8	63.7	97.7	6.01	26.3
MAD f	5.3	10.7	0.75	2.23	0.53	41.1	0.83	9.95	13.1	38.4	0.7	4.4
IQR f	7.41	17	1.69	4.25	2.2	109	1.16	15.1	26.3	60.6	1.08	7.72
Robust CV % f	37	45	62	43	38	53	28	39	40	60	18	28
Outliers	1	1	0	1	1	0	0	0	0	0	1	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Bray-1 Extractable P — autocolour (9E2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	7	7	7	7	6	6	6	6	7	7	7	7
Minimum	16	20.7	0.96	7.5	1.64	23.7	1.69	35	54	125	4.72	25
Maximum	22.5	54.6	2.6	9.7	8.9	225	4.7	49	110	228	6.21	71
Median i	18.0	40.3	2.20	9.22	4.95	164	3.70	43.2	72.0	155	5.54	29.7
Mean i	18.3	38.6	1.99	8.78	5.08	157	3.50	42.5	73.0	160	5.60	34.8
MAD i	1	6.7	0.25	0.48	2.02	30	0.4	5.65	2	10	0.46	1.7
IQR i	1.48	17	0.793	1.53	3.59	70.7	1	9.66	8.75	18.5	0.519	2.52
Robust CV % i	8.2	42	36	17	72	43	27	22	12	12	9.4	8.5
Median f	18.0	40.3	2.20	9.22	4.95	164	3.70	43.2	72.0	151	5.54	29.0
Mean f	18.3	38.6	1.99	8.78	5.08	157	3.50	42.5	71.6	148	5.60	28.7
MAD f	1	6.7	0.25	0.48	2.02	30	0.4	5.65	0.25	9	0.46	1
IQR f	1.48	17	0.793	1.53	3.59	70.7	1	9.66		17.4	0.519	2.3
Robust CV % f	8.2	42	36	17	72	43	27	22		12	9.4	7.9
Outliers	0	0	0	0	0	0	0	0	2	1	0	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Bray-1 Extractable P — pooled (9E1 + 9E2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	19	19	19	19	14	14	14	14	15	15	15	15
Minimum	1.2	1.3	0.96	0.8	1.64	23.7	1.69	21.2	12	16.5	0.6	8.7
Maximum	60	154	5.82	28	14.5	322	6	57	128	228	7	71
Median i	18.7	40.0	2.25	9.67	5.85	187	3.90	42.1	72.0	140	5.93	28.9
Mean i	21.2	43.5	2.58	10.4	5.86	176	3.81	41.5	68.1	127	5.46	30.2
MAD i	3.49	12.4	0.55	1.37	2.25	34	0.6	7	11.3	15	0.53	2.5
IQR i	4.82	17	0.815	1.98	3.22	65.4	0.912	11.3	14.1	60.9	0.719	4.74
Robust CV % i	26	43	36	20	55	35	23	27	20	44	12	16
Median f	18.3	39.2	2.20	9.47	5.85	204	3.90	42.1	72.0	147	5.97	28.9
Mean f	18.7	37.4	2.11	9.07	5.86	198	3.81	41.5	66.7	146	5.80	28.8
MAD f	1.67	10.7	0.4	0.35	2.25	31.6	0.6	7	2	9	0.495	2
IQR f	2.81	16.3	0.808	1.33	3.22	47.1	0.912	11.3	9.27	17.3	0.699	3.52
Robust CV % f	15	42	37	14	55	23	23	27	13	12	12	12
Outliers	4	1	3	3	0	1	0	0	2	5	1	2
Stragglers	1	0	0	3	0	1	0	0	2	0	0	0

## 2005-06: Phosphorus buffer index (Colwell-vanadate finish) (9I2c) L/kg dry wt

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	6	6	6	6	4	4	4	4	5	5	5	5
Minimum	31.5	396	144	28	532	120	139	17.4	81.7	85.7	200	29.5
Maximum	48	628	165	41.9	1380	163	197.7	36	111	159	325	54.4
Median i	39.0	466	157	39.4	1158	157	186	35.4	94.5	121	252	38.0
Mean i	39.0	481	157	37.2	1060	149	177	31.1	95.3	117	251	39.4
MAD i	5.7	61.5	4	1.7	189	5.5	11.4	0.59	6.5	24.9	40	2.5
IQR i	9.4	111	8.34	5.86								
Robust CV % i	24	24	5.3	15								
Median f	39.0	466	158	40.0								
Mean f	39.0	481	157	40.2								
MAD f	5.7	61.5	4	0.6								
IQR f	9.4	111	8.34									
Robust CV % f	24	24	5.3									
Outliers	0	0	0	1								
Stragglers	0	0	0									

## 2005-06: Phosphorus buffer index pooled (9I2a + 9I2b + 9I2c) L/kg dry wt

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	13	13	13	13	11	11	11	11	10	10	10	10
Minimum	31	363	142	28	532	119	139	17.4	81.7	85.7	197	29.5
Maximum	411	1203	607	412	2860	662	639	402	111	222	325	61.2
Median i	36.0	408	155	39.7	1379	156	183	34.8	93.8	117	229	40.3
Mean i	66.6	497	188	76.5	1530	196	221	67.1	94.8	125	236	43.7
MAD i	5	20	8	5.4	378	7	14.7	3.52	6.2	13.5	20.5	8.95
IQR i	7.38	98.2	11.5	9.79	712	12.6	23.5	7.93	10.2	26.7	34.7	14.6
Robust CV % i	20	24	7.4	25	52	8.1	13	23	11	23	15	36
Median f	36.0	402	154	39.2	1379	159	179	34.8	93.8	113	229	40.3
Mean f	37.9	398	153	38.2	1530	158	179	35.5	94.8	114	236	43.7
MAD f	4.7	14	7.5	4.9	378	4	16	1.82	6.2	10	20.5	8.95
IQR f	7.14	21.9	10	5.86	712	7.41	23.7	5.08	10.2	19.7	34.7	14.6
Robust CV % f	20	5.4	6.5	15	52	4.7	13	15	11	17	15	36
Outliers	1	4	1	2	0	3	1	2	0	1	0	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Phosphorus buffer index pooled (9I3a + 9I3b + 9I3c) L/kg dry wt

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	34	393	134	28	1348	191	200	40	80.9	103	193	36
Maximum	53	643	164	56	2560	296	220	48	117	173	244	56.7
Median i	48.2	488	159	42.3	1458	260	205	44.2	105	132	219	52.0
Mean i	45.8	503	154	42.2	1710	252	208	44.1	102	135	219	49.2
MAD i	2.95	73	2.5	7.5	61	27.1	3.75	2.57	8	22	13.5	4.35
IQR i												
Robust CV % i												
Median f												
Mean f												
MAD f												
IQR f												
Robust CV % f												
Outliers												
Stragglers												



## 2005-06: Phosphate Extractable S (10B3) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	6	6	6	6	7	7	7	7	6	6	6	6
Minimum	6.05	31.7	23.5	14	66	54	12	24	6.5	64	33	1.7
Maximum	11.7	49	43.5	18	170	61	25	35.9	16	129	61	9
Median i	10.5	39.5	37.0	15.5	150	58.2	23.0	28.3	11.5	81.0	45.5	7.35
Mean i	9.71	40.4	35.8	15.9	140	57.3	21.4	28.7	11.2	88.8	45.8	6.53
MAD i	0.85	6.65	6	1	12.8	2.2	1.8	2.7	3.25	14	11	0.9
IQR i	2.44	11.5	10.4	2.13	21.5	3.63	4.3	4.45	5.37	33.2	17.4	2.35
Robust CV % i	23	29	28	14	14	6.2	19	16	47	41	38	32
Median f	10.5	39.5	37.0	15.5	155	58.2	23.5	28.3	11.5	81.0	45.5	7.35
Mean f	9.71	40.4	35.8	15.9	152	57.3	23.0	28.7	11.2	88.8	45.8	6.53
MAD f	0.85	6.65	6	1	11	2.2	1.25	2.7	3.25	14	11	0.9
IQR f	2.44	11.5	10.4	2.13	20.6	3.63	2.5	4.45	5.37	33.2	17.4	2.35
Robust CV % f	23	29	28	14	13	6.2	11	16	47	41	38	32
Outliers	0	0	0	0	1	0	1	0	0	0	0	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: KCl<sub>40</sub> Extractable S (Blair *et al.*) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	11	11	11	11	9	9	9	9	10	10	10	10
Minimum	4.9	23.2	10	9.4	18.7	51.9	2.01	16.3	5.65	65.5	23.2	6.4
Maximum	19	45	18.8	21.1	70.6	69.7	33.8	62.1	15.7	124	59.6	12.1
Median i	9.40	33.0	15.9	15.0	49.0	57.0	11.0	26.3	8.90	86.5	31.4	8.16
Mean i	10.4	32.3	15.3	15.4	48.2	58.8	13.4	30.5	9.83	89.9	35.5	8.70
MAD i	2.6	7.2	2.1	2.5	6.7	2	1	2.5	1.76	6.3	3.4	1.15
IQR i	3.78	11	3.71	4.08	14.3	7.6	4.11	6.08	4.04	14.6	9.94	2.38
Robust CV % i	40	33	23	27	29	13	37	23	45	17	32	29
Median f	9.40	33.0	15.9	15.0	49.0	56.7	11.0	26.2	8.90	84.0	30.4	8.16
Mean f	10.4	32.3	15.3	15.4	48.2	55.8	12.1	26.6	9.83	86.1	30.4	8.70
MAD f	2.6	7.2	2.1	2.5	6.7	1.5	1	2.15	1.76	5	2.1	1.15
IQR f	3.78	11	3.71	4.08	14.3	4.6	3.71	3.98	4.04	10.2	3.89	2.38
Robust CV % f	40	33	23	27	29	8.1	34	15	45	12	13	29
Outliers	0	0	0	0	0	2	2	1	0	1	2	0
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: DTPA Extractable Fe (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	27	27	27	27	25	25	25	25	29	29	29	29
Minimum	12.8	25.6	23.2	21.4	30.7	9.28	34.9	22.8	13	9.8	30	27.8
Maximum	10000	7000	28000	15000	20000	27000	36000	16000	15000	50000	31000	14000
Median i	19.1	104	50.0	52.0	68.8	16.0	151	44.0	25.0	17.2	98.6	52.4
Mean i	390	367	1090	614	892	1100	1600	686	544	1750	1170	534
MAD i	3.1	12	10	12	5.2	2.7	17	9	6	4.47	8.6	9
IQR i	5.93	20.8	21.1	19.1	11.1	3.97	37.8	14	10.3	8.6	32.7	13.7
Robust CV % i	31	20	42	37	16	25	25	32	41	50	33	26
Median f	18.0	100	43.0	51.3	68.0	15.2	146	42.9	22.0	16.0	95.6	50.2
Mean f	19.2	102	47.4	49.4	68.8	14.8	150	43.8	24.2	16.5	95.7	50.5
MAD f	3.5	7	5.2	9.5	3.5	1.65	11	8	3.81	2.6	3.6	7.6
IQR f	4.82	10.4	11.4	17	5.93	2.5	17.8	12.4	7.86	4.16	6.41	12
Robust CV % f	27	10	27	33	8.7	17	12	29	36	26	6.7	24
Outliers	2	6	3	3	6	4	6	3	3	4	10	1
Stragglers	0	0	3	1	0	1	2	0	1	3	2	2

## 2005-06: DTPA Extractable Cu (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	27	27	27	27	25	25	25	25	29	29	29	29
Minimum	0.17	1.96	0.32	0.5	0.35	2.36	2.39	0.44	0.08	0.27	6.9	0.75
Maximum	7.3	20	13	7.6	18000	22000	23000	8000	6.19	67	110	11
Median i	0.38	2.71	0.95	0.84	1.30	2.99	3.00	0.58	0.30	4.00	10.0	1.26
Mean i	0.77	3.76	1.50	1.24	721	883	923	321	0.56	6.37	13.9	1.76
MAD i	0.113	0.317	0.11	0.084	0.16	0.29	0.15	0.058	0.051	0.86	0.82	0.16
IQR i	0.176	0.741	0.245	0.245	0.248	0.31	0.231	0.090	0.113	1.4	1.42	0.259
Robust CV % i	46	27	26	29	19	10	7.7	15	38	35	14	21
Median f	0.36	2.675	0.944	0.82	1.3	2.915	3	0.542	0.276	4	9.8	1.245
Mean f	0.39	2.72	0.934	0.822	1.23	2.83	2.99	0.555	0.279	4.28	9.88	1.27
MAD f	0.07	0.22	0.050	0.050	0.115	0.155	0.100	0.058	0.026	0.800	0.620	0.150
IQR f	0.156	0.363	0.077	0.072	0.154	0.254	0.156	0.060	0.043	1.1	1.1	0.234
Robust CV % f	43	14	8.2	8.7	12	8.7	5.2	11	16	28	11	19
Outliers	3	5	6	7	5	4	6	4	5	4	4	3
Stragglers	1	0	3	2	0	1	1	0	4	0	2	0

## 2005-06: DTPA Extractable Mn (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	121	122	123	124	31	32	33	34	51	52	53	54
No of results	27	27	27	27	25	25	25	25	29	29	29	29
Minimum	17.9	6.49	17.4	18	27.7	25.8	28	7.49	2	3.52	35.5	34.1
Maximum	650	890	170	890	1000	220	1952	27	512	6100	1300	380
Median i	116	13.0	44.0	300	105	39.0	120	10.5	3.70	454	210	63.3
Mean i	139	47.8	49.2	332	137	49.5	227	11.5	23.3	602	232	79.0
MAD i	10	1.1	5	18	8.6	2	10	0.5	0.45	43	14	7.3
IQR i	16.3	3.04	10.2	54.9	14	5.41	21.1	0.815	0.719	71.9	24.5	10.6
Robust CV % i	14	23	23	18	13	14	18	7.8	19	16	12	17
Median f	113	12.4	43.8	297	108	38.3	117	10.3	3.70	461	211	63.0
Mean f	114	12.5	43.9	299	106	38.6	119	10.4	3.67	466	209	62.2
MAD f	7.5	0.6	2.82	10.5	4.5	1.2	7	0.6	0.405	19	9	4.9
IQR f	11.1	0.927	4.74	16.7	7.26	2.41	11.9	0.815	0.637	30.9	14.5	8.08
Robust CV % f	9.8	7.5	11	5.6	6.8	6.3	10	7.9	17	6.7	6.9	13
Outliers	5	7	3	8	7	7	6	4	2	7	6	4
Stragglers	0	2	1	1	1	1	0	0	1	2	2	2

## 2005-06: DTPA Extractable Zn (12A1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	12 1	12 2	12 3	12 4	31	32	33	34	51	52	53	54
No of results	27	27	26	27	24	24	24	24	29	29	29	29
Minimum	2.2	7.6	0.06	1.39	2.8	1.53	1.38	0.74	0.3	0.69	1.7	0.72
Maximum	39	61	19	15	90	41	20	6	9.1	110	43	47.5
Median i	2.90	10.0	0.20	1.99	6.65	1.97	1.72	1.00	0.514	1.42	2.85	1.07
Mean i	4.36	12.4	1.04	2.50	10.4	3.79	2.57	1.31	0.874	5.38	4.23	4.18
MAD i	0.34	0.64	0.064	0.143	0.847	0.175	0.094	0.1	0.124	0.22	0.35	0.07
IQR i	0.526	1.01	0.206	0.215	1.26	0.269	0.146	0.169	0.185	0.434	0.545	0.167
Robust CV % i	18	10	100	11	19	14	8.5	17	36	31	19	16
Median f	2.84	9.90	0.17	1.90	6.55	1.93	1.67	0.976	0.506	1.40	2.82	1.06
Mean f	2.88	9.92	0.18	1.91	6.55	1.95	1.67	0.977	0.516	1.43	2.85	1.06
MAD f	0.27	0.6	0.037	0.1	0.642	0.16	0.095	0.073	0.094	0.14	0.38	0.0415
IQR f	0.406	0.89	0.0578	0.126	1	0.23	0.148	0.112	0.158	0.245	0.552	0.0741
Robust CV % f	14	9	34	6.6	15	12	8.9	11	31	17	20	7
Outliers	3	4	5	5	4	3	4	4	2	6	1	7
Stragglers	0	0	2	3	0	0	0	0	1	2	0	2

## 2005-06: Hot CaCl<sub>2</sub> Extractable B — manual colour (12C1) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	6	6	6	6	5	5	5	5	6	6	6	6
Minimum	0.03	0.05	0	0.02	0.014	0.149	0.02	0.068	0.12	0.3	0.1	0.1
Maximum	14	15	5.3	8.1	1.35	3.14	0.764	1.3	0.792	1	1.06	0.6
Median i	0.55	2.33	0.70	2.04	0.60	2.43	0.63	0.90	0.20	0.66	0.75	0.36
Mean i	2.94	4.17	1.41	3.38	0.63	2.14	0.51	0.83	0.32	0.67	0.67	0.34
MAD i	0.323	0.555	0.323	1.28	0.01	0.37	0.134	0.19	0.06	0.29	0.165	0.185
IQR i	3.52	3.39	1.34	4.33					0.308	0.452	0.361	0.298
Robust CV % i	640	150	190	210					160	69	48	83
Median f				2.04						0.66	0.746	0.36
Mean f				3.38						0.67	0.67	0.34
MAD f				1.28						0.29	0.16	0.19
IQR f				4.33						0.452	0.361	0.298
Robust CV % f				210						69	48	83
Outliers	1	1	1	0					1	0	0	0
Stragglers				0						0	0	0

## 2005-06: Hot CaCl<sub>2</sub> Extractable B — ICPAES (12C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	15	15	15	15	12	12	12	12	14	14	14	14
Minimum	0.28	1.36	0.39	0.63	0.39	1.7	0.49	0.85	0.1	0.7	0.39	0.37
Maximum	1.1	3.24	1.6	2.29	24.3	3.85	1.54	2.38	0.50	91	1.4	0.93
Median i	0.63	2.40	0.80	1.39	0.72	2.66	0.76	1.35	0.20	1.16	1.05	0.60
Mean i	0.67	2.31	0.83	1.43	2.68	2.74	0.86	1.44	0.22	7.60	0.95	0.61
MAD i	0.185	0.4	0.136	0.18	0.228	0.415	0.152	0.145	0.06	0.306	0.148	0.058
IQR i	0.289	0.667	0.225	0.282	0.335	0.78	0.42	0.322	0.093	0.5	0.293	0.108
Robust CV % i	46	28	28	20	47	29	55	24	47	43	28	18
Median f	0.63	2.40	0.78	1.39	0.63	2.66	0.73	1.28	0.20	1.11	1.05	0.60
Mean f	0.67	2.31	0.78	1.43	0.71	2.74	0.80	1.30	0.20	1.19	0.95	0.61
MAD f	0.185	0.4	0.13	0.17	0.168	0.415	0.129	0.125	0.053	0.226	0.148	0.024
IQR f	0.289	0.667	0.226	0.259	0.337	0.78	0.225	0.172	0.088	0.466	0.293	0.049
Robust CV % f	46	28	29	19	53	29	31	14	45	42	28	8.1
Outliers	0	0	1	1	1	0	1	1	1	1	0	1
Stragglers	0	0	0	1	0	0	0	1	0	0	0	3

## 2005-06: Hot CaCl<sub>2</sub> Extractable B — pooled (12C1 + 12C2) mg/kg air dry

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	21	21	21	21	17	17	17	17	20	20	20	20
Minimum	0.03	0.05	0	0.02	0.014	0.15	0.02	0.07	0.1	0.3	0.1	0.1
Maximum	14	15	5.3	8.1	24.3	3.85	1.54	2.38	0.79	91	1.4	0.93
Median i	0.60	2.40	0.80	1.50	0.62	2.52	0.70	1.25	0.20	1.00	0.90	0.58
Mean i	1.32	2.84	1.00	1.99	2.08	2.56	0.76	1.26	0.25	5.52	0.86	0.53
MAD i	0.19	0.4	0.2	0.28	0.178	0.48	0.104	0.16	0.06	0.275	0.22	0.095
IQR i	0.371	0.656	0.357	0.493	0.317	0.662	0.197	0.341	0.094	0.505	0.408	0.165
Robust CV % i	62	27	45	33	51	26	28	27	47	51	45	28
Median f	0.54	2.40	0.78	1.47	0.62	2.66	0.70	1.25	0.16	1.00	0.90	0.60
Mean f	0.61	2.35	0.78	1.51	0.69	2.71	0.67	1.26	0.18	1.02	0.86	0.58
MAD f	0.181	0.4	0.152	0.235	0.179	0.415	0.09	0.15	0.04	0.249	0.22	0.092
IQR f	0.282	0.645	0.234	0.38	0.29	0.638	0.145	0.23	0.067	0.434	0.408	0.127
Robust CV % f	52	27	30	26	47	24	21	18	41	43	45	21
Outliers	2	2	1	3	1	1	4	2	3	1	0	2
Stragglers	0	0	2	0	0	0	0	0	1	0	0	0

## 2005-06: Exchangeable Ca — 1M NH<sub>4</sub>Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	16	16	16	16	16	16	16	16	20	20	20	20
Minimum	0.25	0.37	0.10	0.16	2.5	10.8	2.74	1.87	0.52	2.13	3.29	2
Maximum	15.7	20.9	4.1	8.3	6.34	16.9	14.5	3.33	7.86	15.4	20.5	23.9
Median i	10.2	15.1	3.14	6.10	5.30	14.6	2.90	2.66	1.92	4.64	6.36	6.48
Mean i	10.4	14.9	3.05	5.90	5.20	14.5	3.69	2.68	2.26	4.90	6.70	7.13
MAD i	0.53	0.95	0.19	0.43	0.44	0.5	0.1	0.155	0.18	0.335	0.58	0.475
IQR i	1.4	1.85	0.337	0.63	0.619	0.752	0.278	0.252	0.237	0.504	0.847	0.84
Robust CV % i	14	12	11	10	12	5.2	9.6	9.5	12	11	13	13
Median f	10.1	14.8	3.14	6.10	5.30	14.6	2.85	2.70	1.91	4.70	6.42	6.49
Mean f	10.1	15.2	3.18	6.14	5.38	14.5	2.84	2.73	1.93	4.69	6.39	6.59
MAD f	0.3	0.84	0.14	0.315	0.38	0.445	0.05	0.16	0.09	0.27	0.525	0.215
IQR f	0.489	1.37	0.33	0.556	0.519	0.745	0.082	0.245	0.185	0.454	0.754	0.36
Robust CV % f	4.8	9.2	11	9.1	9.8	5.1	2.9	9.1	9.7	9.7	12	5.5
Outliers	4	3	2	2	1	2	3	1	4	4	3	4
Stragglers	1	0	0	0	0	0	2	0	1	0	1	2

## 2005-06: Exchangeable Mg — 1M NH<sub>4</sub>Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	121	122	123	124	31	32	33	34	51	52	53	54
No of results	16	16	16	16	16	16	16	16	20	20	20	20
Minimum	0.19	0.21	0.18	0.07	0.88	3.45	1.16	0.46	0.25	0.97	3.2	1.56
Maximum	5.5	8	6.3	2.3	1.3	4.5	1.4	0.85	4.52	3.97	15.7	9.35
Median i	3.41	3.40	3.17	1.61	1.01	3.90	1.26	0.73	1.16	1.16	4.81	2.50
Mean i	3.35	3.48	3.19	1.55	1.03	3.91	1.26	0.72	1.30	1.31	5.29	2.78
MAD i	0.195	0.205	0.185	0.115	0.044	0.21	0.035	0.04	0.06	0.04	0.192	0.085
IQR i	0.319	0.374	0.297	0.193	0.088	0.337	0.067	0.0614	0.08	0.070	0.291	0.122
Robust CV % i	9.4	11	9.4	12	8.8	8.6	5.3	8.4	6.9	6.1	6.1	4.9
Median f	3.41	3.40	3.17	1.61	1.00	3.90	1.26	0.73	1.15	1.16	4.82	2.50
Mean f	3.42	3.39	3.18	1.60	1.00	3.91	1.26	0.73	1.14	1.15	4.86	2.47
MAD f	0.155	0.19	0.14	0.1	0.034	0.21	0.035	0.038	0.05	0.032	0.15	0.05
IQR f	0.245	0.322	0.237	0.163	0.064	0.337	0.067	0.059	0.078	0.056	0.222	0.104
Robust CV % f	7.2	9.5	7.5	10	6.4	8.6	5.3	8.1	6.8	4.8	4.6	4.2
Outliers	2	2	2	2	2	0	0	1	3	4	4	4
Stragglers	0	0	0	0	0	0	0	0	1	0	1	1

## 2005-06: Exchangeable Na — 1M NH<sub>4</sub>Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
	121	122	123	124	31	32	33	34	51	52	53	54
No of results	15	16	16	15	16	16	16	16	19	19	20	20
Minimum	0	0.06	0.17	0	0.06	0.65	0.04	0.06	0	0.01	0.14	0.18
Maximum	0.86	0.78	0.45	1.14	0.23	1.7	1.42	58	0.66	0.71	1.22	0.83
Median i	0.045	0.132	0.340	0.030	0.160	1.52	0.130	0.265	0.020	0.078	0.390	0.280
Mean i	0.130	0.185	0.330	0.145	0.150	1.43	0.200	3.87	0.090	0.150	0.470	0.345
MAD i	0.02	0.024	0.044	0.022	0.039	0.075	0.024	0.04	0.014	0.038	0.099	0.068
IQR i	0.059	0.035	0.062	0.042	0.069	0.145	0.035	0.058	0.068	0.119	0.132	0.123
Robust CV % i	130	26	18	140	43	9.5	27	22	340	150	34	44
Median f	0.037	0.128	0.344	0.024	0.159	1.54	0.125	0.265	0.012	0.062	0.374	0.265
Mean f	0.039	0.122	0.333	0.031	0.149	1.53	0.115	0.271	0.016	0.059	0.379	0.271
MAD f	0.012	0.017	0.044	0.016	0.039	0.06	0.02	0.035	0.01	0.024	0.09	0.035
IQR f	0.019	0.031	0.062	0.031	0.069	0.085	0.031	0.056	0.017	0.038	0.128	0.062
Robust CV % f	51	24	18	130	43	5.6	25	21	150	61	34	23
Outliers	3	2	0	2	0	2	2	2	5	3	3	3
Stragglers	1	0	0	0	0	0	0	0	0	2	0	0

## 2005-06: Exchangeable K — 1M NH<sub>4</sub>Cl extract (15A1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	16	16	16	16	16	16	16	16	20	20	20	20
Minimum	0.02	0.12	0.02	0.06	0.2	0.73	0.16	0.25	0.03	0.3	0.41	0.2
Maximum	0.63	1.42	0.50	2.1	1	1.13	0.30	0.43	0.9	2.48	2.7	1.12
Median i	0.299	0.798	0.288	1.06	0.855	0.845	0.205	0.370	0.254	0.773	0.816	0.336
Mean i	0.316	0.781	0.287	1.04	0.815	0.863	0.212	0.365	0.302	0.809	0.881	0.370
MAD i	0.013	0.083	0.022	0.08	0.046	0.06	0.016	0.03	0.028	0.055	0.058	0.017
IQR i	0.029	0.14	0.037	0.182	0.087	0.091	0.026	0.047	0.051	0.086	0.088	0.035
Robust CV % i	9.8	18	13	17	10	11	13	13	20	11	11	10
Median f	0.298	0.798	0.288	1.060	0.860	0.840	0.200	0.370	0.254	0.790	0.824	0.332
Mean f	0.299	0.783	0.286	1.030	0.856	0.846	0.206	0.365	0.258	0.775	0.838	0.328
MAD f	0.01	0.062	0.015	0.065	0.041	0.06	0.013	0.03	0.012	0.028	0.044	0.014
IQR f	0.016	0.119	0.023	0.146	0.064	0.09	0.024	0.047	0.021	0.067	0.083	0.024
Robust CV % f	5.2	15	7.9	14	7.5	11	12	13	8.2	8.5	10	7.3
Outliers	5	2	3	2	1	1	1	0	4	3	3	4
Stragglers	0	0	1	0	0	0	0	0	2	1	1	2

## 2005-06: Exchangeable Ca — 1M NH<sub>4</sub>OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	15	15	15	15	14	14	14	14	15	15	15	15
Minimum	7.51	11.5	2.39	0.33	2.47	7.41	1.5	1.37	1.68	4.2	2.72	2.45
Maximum	11.3	16.7	3.5	6.88	5.99	14.9	3.24	2.82	4.6	14	6.84	7.21
Median i	10.3	15.4	2.98	5.86	4.73	13.5	2.86	2.54	1.96	4.73	6.21	6.54
Mean i	10.3	15.3	3.01	5.63	4.61	13.2	2.77	2.45	2.15	5.32	5.97	6.40
MAD i	0.3	0.73	0.22	0.26	0.345	0.39	0.18	0.165	0.12	0.3	0.38	0.44
IQR i	0.786	1.13	0.437	0.445	0.507	0.589	0.293	0.265	0.2	0.368	0.571	0.675
Robust CV % i	7.6	7.4	15	7.6	11	4.4	10	10	10	7.8	9.2	10
Median f	10.4	15.6	2.98	5.86	4.75	13.6	2.86	2.61	1.94	4.69	6.22	6.74
Mean f	10.5	15.5	3.01	5.94	4.78	13.6	2.87	2.58	1.93	4.70	6.21	6.68
MAD f	0.35	0.65	0.22	0.16	0.32	0.4	0.16	0.14	0.1	0.265	0.34	0.38
IQR f	0.682	1.08	0.437	0.36	0.5	0.63	0.245	0.239	0.204	0.389	0.558	0.595
Robust CV % f	6.6	6.9	15	6.1	11	4.6	8.6	9.2	11	8.3	9	8.8
Outliers	1	1	0	1	1	1	1	1	2	1	1	1
Stragglers	0	0	0	1	0	0	0	1	0	0	0	0

## 2005-06: Exchangeable Mg — 1M NH<sub>4</sub>OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	15	15	15	15	14	14	14	14	15	15	15	15
Minimum	2.87	2.84	2.75	1.36	0.54	2.14	0.69	0.32	0.91	0.9	1.32	0.77
Maximum	3.69	3.69	3.59	1.77	1.46	4.17	1.93	1.47	1.43	4.08	4.93	2.79
Median i	3.29	3.26	2.99	1.50	0.97	3.80	1.24	0.72	1.05	1.12	4.68	2.37
Mean i	3.29	3.24	3.03	1.52	0.98	3.70	1.25	0.732	1.09	1.34	4.42	2.33
MAD i	0.17	0.15	0.13	0.07	0.095	0.105	0.07	0.05	0.066	0.05	0.21	0.11
IQR i	0.252	0.245	0.222	0.111	0.144	0.174	0.115	0.082	0.096	0.096	0.28	0.163
Robust CV % i	7.7	7.5	7.4	7.4	15	4.6	9.3	11	9.2	8.6	6	6.9
Median f	3.29	3.26	2.97	1.50	0.97	3.81	1.24	0.715	1.03	1.10	4.70	2.39
Mean f	3.29	3.24	2.99	1.52	0.98	3.82	1.24	0.705	1.05	1.12	4.64	2.44
MAD f	0.17	0.15	0.14	0.07	0.084	0.1	0.06	0.04	0.05	0.05	0.14	0.09
IQR f	0.252	0.245	0.211	0.111	0.124	0.17	0.1	0.073	0.091	0.078	0.262	0.145
Robust CV % f	7.7	7.5	7.1	7.4	13	4.5	8.1	10	8.9	7.1	5.6	6
Outliers	0	0	1	0	2	1	2	2	2	2	1	1
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0

## 2005-06: Exchangeable Na — 1M NH<sub>4</sub>OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	16	16	16	16	14	14	14	14	16	16	16	16
Minimum	0.03	0.11	0.31	0	0.12	0.81	0.1	0.16	0	0.01	0.16	0.14
Maximum	0.19	0.36	0.6	0.24	0.24	1.66	0.20	0.36	0.27	1.55	1.36	0.44
Median i	0.060	0.158	0.392	0.044	0.178	1.48	0.140	0.274	0.032	0.099	0.384	0.274
Mean i	0.070	0.178	0.398	0.060	0.179	1.43	0.152	0.271	0.072	0.230	0.445	0.284
MAD i	0.019	0.028	0.032	0.020	0.029	0.08	0.026	0.03	0.024	0.035	0.035	0.027
IQR i	0.04	0.048	0.047	0.03	0.049	0.159	0.038	0.048	0.064	0.068	0.056	0.046
Robust CV % i	67	30	12	67	27	11	27	17	200	69	15	17
Median f	0.059	0.154	0.388	0.038	0.178	1.51	0.140	0.274	0.03	0.088	0.368	0.273
Mean f	0.062	0.154	0.385	0.041	0.179	1.47	0.152	0.271	0.036	0.094	0.382	0.274
MAD f	0.018	0.025	0.028	0.018	0.029	0.08	0.026	0.03	0.02	0.027	0.033	0.024
IQR f	0.027	0.039	0.036	0.027	0.049	0.126	0.038	0.048	0.036	0.049	0.046	0.035
Robust CV % f	45	25	9.2	73	27	8.3	27	17	120	55	13	13
Outliers	1	2	1	2	0	1	0	0	3	3	3	3
Stragglers	0	0	0	0	0	0	0	0	0	0	0	0



## 2005-06: Exchangeable K — 1M NH<sub>4</sub>OAc extract (15D3) cmol+/kg

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	16	16	16	16	14	14	14	14	16	16	16	16
Minimum	0.24	0.08	0.24	0.88	0.43	0.21	0.12	0.2	0.17	0.58	0.25	0.32
Maximum	0.34	0.92	0.34	1.6	0.97	0.95	0.25	0.42	0.86	0.92	0.98	0.42
Median i	0.288	0.760	0.284	1.08	0.824	0.790	0.206	0.334	0.269	0.810	0.859	0.362
Mean i	0.293	0.726	0.284	1.09	0.797	0.730	0.199	0.330	0.304	0.807	0.821	0.364
MAD i	0.014	0.025	0.016	0.045	0.078	0.055	0.013	0.042	0.012	0.03	0.047	0.022
IQR i	0.023	0.043	0.027	0.08	0.118	0.101	0.032	0.067	0.023	0.053	0.071	0.034
Robust CV % i	8.1	5.6	9.4	7.4	14	13	15	20	8.6	6.6	8.3	9.3
Median f	0.288	0.760	0.245	1.07	0.840	0.809	0.207	0.334	0.266	0.818	0.866	0.362
Mean f	0.293	0.766	0.284	1.05	0.826	0.797	0.205	0.330	0.264	0.822	0.859	0.364
MAD f	0.014	0.02	0.016	0.03	0.07	0.036	0.011	0.042	0.012	0.031	0.052	0.022
IQR f	0.024	0.041	0.027	0.063	0.114	0.074	0.022	0.067	0.021	0.054	0.059	0.034
Robust CV % f	8.1	5.4	9.4	5.9	14	9.1	11	20	7.9	6.6	6.8	9.3
Outliers	0	2	0	2	1	2	1	0	4	1	1	0
Stragglers	0	1	0	1	0	0	0	0	0	0	0	0

## 2005-06: Exchangeable Al — 1M KCl (15G1) cmol+/kg

Statistical parameters	Soil sample identification and values											
	December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
	ASS 121	ASS 122	ASS 123	ASS 14	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
No of results	19	20	20	20	15	15	15	15	20	20	20	20
Minimum	0	0	0	0	0.08	0	0.04	0.02	0	0	0.04	0
Maximum	0.2	6.65	4.58	0.88	11.7	0.1	3.88	1.9	1.73	0.54	4.1	0.45
Median i	0.010	0.034	0.215	0.020	0.610	0.010	0.225	0.090	0.051	0.014	0.156	0.020
Mean i	0.041	0.381	0.453	0.083	1.26	0.028	0.443	0.212	0.210	0.059	0.419	0.053
MAD i	0.01	0.028	0.052	0.017	0.072	0.01	0.06	0.025	0.042	0.011	0.052	0.02
IQR i	0.044	0.052	0.076	0.048	0.125	0.046	0.11	0.047	0.113	0.031	0.077	0.04
Robust CV % i	440	150	35	240	21	460	49	52	220	210	50	200
Median f	0.004	0.020	0.207	0.010	0.616	0.004	0.218	0.086	0.048	0.010	0.149	0.011
Mean f	0.008	0.030	0.212	0.014	0.632	0.005	0.198	0.092	0.046	0.012	0.139	0.022
MAD f	0.004	0.019	0.032	0.008	0.044	0.004	0.053	0.024	0.028	0.005	0.027	0.01
IQR f	0.007	0.038	0.058	0.012	0.07	0.007	0.098	0.046	0.034	0.011	0.06	0.032
Robust CV % f	210	200	28	130	11	180	45	54	70	110	40	290
Outliers	5	3	3	3	4	4	1	1	4	4	3	2
Stragglers	2	1	1	3	0	1	0	0	1	1	1	1

## 4. Comments on Measurement Performance

Detailed evaluation of measurement performance is beyond the scope of this report. Such evaluations mostly occur at ASPAC Workshops, at other national and international meetings, and in the scientific literature. However, it is appropriate to make a few brief observations.

The median robust % CVs across the 12 samples, after the removal of “outliers” and “stragglers”, ranged from 1.5 to 90%. This covered 41 tests reported by a minimum of six laboratories. Table 5 provides the identity of the six best performed and six worst performed tests, with their corresponding (final) median robust % CVs, noting that for Colwell (9B), Olsen (9C) and Bray-1 extractable P (9E) tests, only combined data (manual + autocolour finishes) rather than individual analytical finishes were considered for tabulation.

The best-performed extractable P test was the autocolour finish of Colwell (9B2), followed by Olsen and Bray-1 (both with autocolour finish), which is in keeping with findings from previous ILPPs. Had individual P analytical finishes been considered for inclusion in Table 5, then manual finishes for both Olsen and Bray P would have made the six worst performed tests. Once again, water-soluble Cl by potentiometric titration (5A1) was less well performed than its autocolour counterpart (5A2). Both analytical finishes for hot CaCl<sub>2</sub> extractable B featured in the six worst performed tests.

The performances of the best tests were similar but slightly better in 2004-05. Some of the worst tests in 2004-05 were better in 2005-06 (Bray P tests, autocolour chloride 5A2), but in general there were higher robust CV's in 2005-06, particularly for exchangeable Al, manual Cl (5A1) and manual B (12C1). Median concentrations of Cl and B in exchange samples were generally higher in 2005-06, so reasons for higher robust % CVs are not solely due to concentrations.

The grand median final robust CV across the 40+ tests was 14.0%, higher than in 2004-05, when the value was 11.3% across 12 soils. The minimum in 2005-06 was 9.1% for test soil ASS32, while the maximum was 16% for test soil ASS51. The data summaries in Section 3 show many examples of skewed data; i.e. there were quite large differences at times between the median and mean values for individual tests. This emphasised the importance of using medians and MADs, which are less influenced by ‘rogue’ results in small data sets.

Table 5. The six best performed and worst performed soil chemical tests, based on percent robust coefficients of variation (grand medians) after the removal of “outliers” and “stragglers”.

<i>Best (Lowest Robust %CVs)</i>		<i>Worst (Highest Robust %CVs)</i>	
<i>Soil Method</i>	<i>%CV</i>	<i>Soil Method</i>	<i>%CV</i>
Soil pH, 1:5 0.01 M CaCl <sub>2</sub> (4B2)	1.5	Hot CaCl <sub>2</sub> Extractable B (12C2)	29.0
Soil pH, 1:5 water (4A1)	1.7	Exchangeable Na (15A1)	29.5
Soil pH, 1:5 0.01 M CaCl <sub>2</sub> (4B1)	2.2	Water soluble Cl (5A1 + 5A2)	33.5
Total Organic Carbon (6B3)	4.6	Hot CaCl <sub>2</sub> Extractable B (12C1)	61.5
KCl Extractable Nitrate N (7C2)	5.9	Water soluble Cl - potentiometric (5A1)	63.0
Exchangeable Mg (15A1)	7.0	Exchangeable Al (15G1)	90.0

Consistent with the observations made in the 2004-05 annual report, the measurement performance of exchangeable Al by method 15G1 (1M KCl extraction) worsened (as judged by final robust CVs) as soil hydrogen ion concentrations decreased. Figure 1 shows clearly the significant exponential increase in robust %CVs at soil pH values above 5 to 5.5 for both water and CaCl<sub>2</sub> soil pH tests (4A1 and 4B1/2, respectively). The relationship with soil acidity, expressed as the hydrogen ion concentration in moles, using pH data for method 4A1 is:

$$\text{Final Robust \%CV for exchangeable Al (method 15G1)} = -35.02 \ln(x) - 374.38; r^2 = 0.61^{**}$$

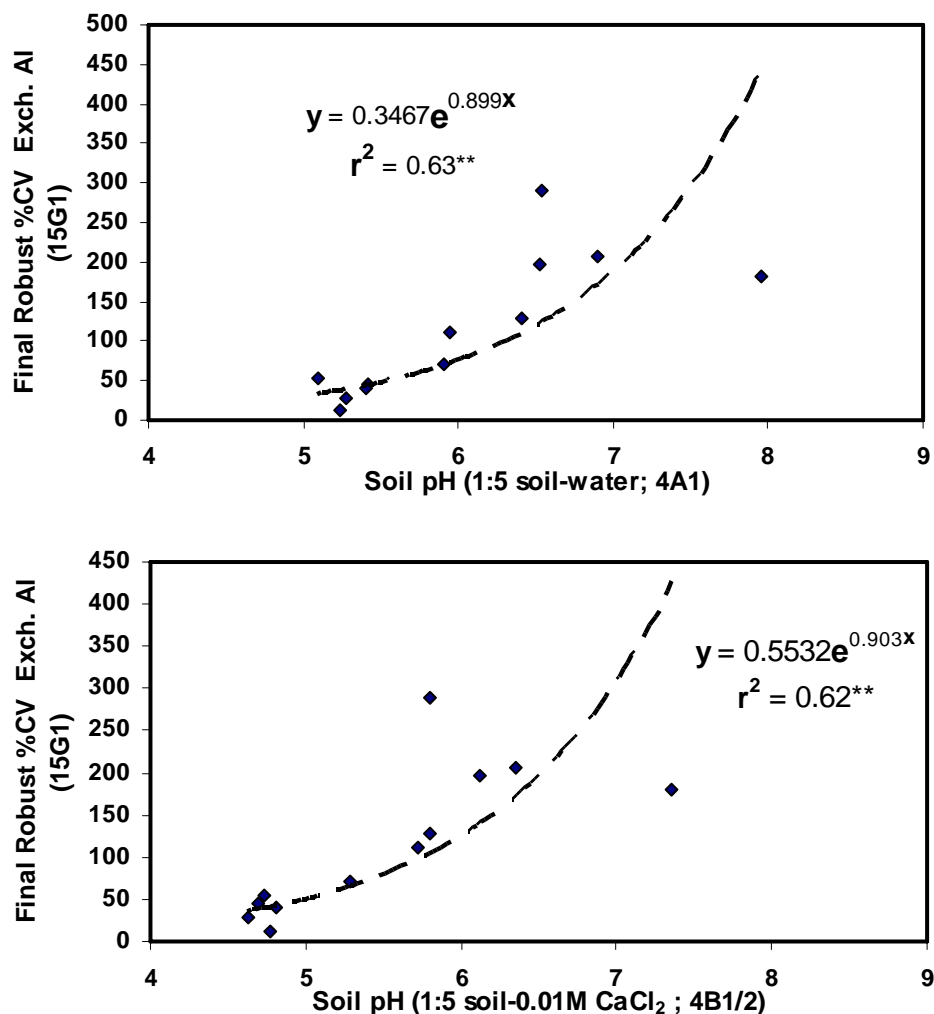


Figure 1. The relationships between soil pH (methods 4A1 and 4B1/2) and robust %CVs for exchangeable Al (method 15G1) for the 12 soils used in the ASPAC ILPP for soils in 2005-06. The robust %CV values were those applicable after the removal of “outliers” and the identification of “stragglers”.

The full data set also provide insights into which test samples were “easiest to measure” and “hardest to measure”, as inferred by lower and higher robust CVs, respectively, across all 12 samples. Sample ASS 32 had the lowest grand median robust %CV (9.1%; best), followed by a sample from North America (ASS 121 = 11.0%) and one of the two from New Zealand (ASS 31 = 11.0%). Most variation across all methods was ASS 51, with a grand median around 16%, mainly due to between laboratory variations in extractable S (both tests), water soluble Cl, and exchangeable Na. Levels of water soluble Cl (method 5A) and exchangeable Na (15A1) were very low.

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## Appendix 2: Summary examples of homogeneity data and statistical assessments for Olsen P and total N (Dumas) in soil samples used in ASPAC's Soil ILPP, 2005-06.

Sample name		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
<i>Test Method<sup>d</sup></i>		<i>Dumas N</i>	<i>Dumas N</i>	<i>Olsen P</i>	<i>Olsen P</i>	<i>Dumas N</i>	<i>Dumas N</i>	<i>Dumas N</i>	<i>Dumas N</i>	<i>Dumas N</i>	<i>Dumas N</i>	<i>Olsen P</i>	<i>Dumas N</i>
Sample 1	Rep 1	0.129	0.466	3	7	0.543	0.110	0.192	0.096	0.091	0.129	5	0.117
	Rep 2	0.138	0.452	3	10	0.500	0.112	0.172	0.099	0.086	0.122	5	0.064
Sample 2	Rep 1	0.124	0.469	3	10	0.523	0.103	0.174	0.098	0.087	0.126	4	0.078
	Rep 2	0.115	0.463	4	8	0.499	0.112	0.167	0.104	0.090	0.127	5	0.092
Sample 3	Rep 1	0.119	0.464	3	10	0.497	0.118	0.184	0.109	0.091	0.098	5	0.077
	Rep 2	0.132	0.462	3	9	0.502	0.125	0.180	0.098	0.084	0.105	4	0.064
Sample 4	Rep 1	0.120	0.467	3	7	0.494	0.112	0.187	0.094	0.085	0.122	5	0.047
	Rep 2	0.133	0.449	3	8	0.508	0.112	0.165	0.104	0.087	0.126	4	0.067
Sample 5	Rep 1	0.118	0.466	3	8	0.526	0.117	0.195	0.098	0.086	0.113	5	0.071
	Rep 2	0.124	0.454	3	10	0.496	0.112	0.185	0.100	0.079	0.122	4	0.089
Sample 6	Rep 1	0.120	0.455	4	7	0.503	0.131	0.192	0.098	0.079	0.106	5	0.042
	Rep 2	0.110	0.452	3	8	0.519	0.107	0.162	0.100	0.083	0.142	4	0.064
Sample 7	Rep 1	0.114	0.449	4	8	0.521	0.111	0.184	0.104	0.090	0.081	5	0.057
	Rep 2	0.119	0.467	4	8	0.514	0.112	0.173	0.094	0.091	0.122	5	0.096
Sample 8	Rep 1	0.105	0.440	3	7	0.510	0.118	0.176	0.093	0.089	0.097	5	0.051
	Rep 2	0.119	0.446	3	7	0.508	0.107	0.175	0.091	0.093	0.116	5	0.057
Sample 9	Rep 1	0.120	0.475	3	8	0.495	0.103	0.172	0.098	0.091	0.111	5	0.068
	Rep 2	0.122	0.453	3	9	0.535	0.112	0.177	0.110	0.095	0.105	4	0.060
Sample 10	Rep 1	0.116	0.464	3	7	0.536	0.108	0.178	0.099	0.081	0.124	5	0.075
	Rep 2	0.118	0.474	3	8	0.515	0.100	0.182	0.097	0.088	0.122	5	0.072
Mean		0.121	0.459	3.200	8.200	0.512	0.112	0.179	0.099	0.087	0.116	4.70	0.070
Analytical SD		0.0066	0.007	0.009	0.316	1.049	0.017	0.007	0.010	0.005	0.003	0.013	0.548
Sampling SD		0.0043	0.004	0.003	0.269	0.358	0.009	0.002	0.005	0.001	0.003	0.004	0.289
SD of proficiency data		0.015	0.015	0.030	1.186	1.770	0.032	0.014	0.017	0.018	0.016	0.016	3.039
Homogeneity index		0.2872	0.287	0.114	0.227	0.202	0.282	0.121	0.289	0.078	0.190	0.260	0.095
Status		H <sup>**</sup>	H	H	H	H	H	H	H	H	H	H	H
F-statistic		1.86	1.28	2.44	1.23	0.45	1.12	0.54	0.85	2.50	1.19	0.44	1.14
F critical		3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02
F<F critical		Y <sup>***</sup>	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

\* Units for Olsen P and Total N (Dumas) are mg P/kg and %N, respectively

\*\* H = homogeneous

\*\*\* Y = yes

## Appendix 3: Statistical procedures used by ASPAC for its Soil ILPP, 2005-06

Refer to Table 4 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 6 or greater) laboratories. See references in the body of the report for more details. Also, the median is regarded as a good estimate of the true mean ( $\mu$ ), while the MAD; ie. 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  $[(X - \mu)/f@]$  (called the “ASPAC Score” for convenience)  $> 2$ , where “X” is the value reported by the laboratory (one replicate assumed), “ $\mu$ ” 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 2.5% (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”. Where this was again  $> 2$ , the relevant laboratories were rated as “stragglers” (†).

Further iterations can be undertaken if the sample is targeted for upgrading to the status of a reference, only to converge the mean and the median, thereby providing a more likely “correct” reference result.

The other statistics summarised in Table 4 were calculated on the same populations of data. However, only the first (i) and second (final; f) values appear in the data summaries in Section 3.

## Appendix 4: “Raw” program data for the 12 samples across three “rounds”.

The following tabulations list the “raw” data provided by participating laboratories for each method, with unnecessary precision removed after completion of statistical tests to assist data presentation. Statistical “outliers” and “stragglers” are indicated by †† and †, respectively.

Lab. Code #	Method Codes	2005-06 Electrical conductivity 1:5 soil-water (3A1) dS/m air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	3A1	0.107	0.247	0.102	0.122	0.198	0.332	0.072	0.353	0.092	0.552	0.164	0.099
L003	3A1									0.088	0.523	0.125	0.092
L006	3A1	0.130	0.284	0.120	0.150	0.192	0.320	0.076	0.330	0.093	0.497	0.161	0.100
L009	3A1	0.122	0.270	0.109	0.132	0.170	0.353	0.084	0.323	0.094	0.515	0.157	0.110
L010	3A1	0.120	0.260	0.120	0.130	0.200	0.330	0.070	0.330	0.100	0.520	0.180	0.113
L011	3A1	0.120	0.280	0.120	0.130	0.209	0.345	0.079	0.348	0.099	0.566	0.169	0.104
L013	3A1	0.110	0.260	0.110	0.130	0.190	0.330	0.080	0.330	0.080	0.530	0.150	0.100
L014	3A1	0.130	0.332 ††	0.137 ††	0.170 ††					0.100	0.600	0.160	0.100
L018	3A1	0.111	0.259	0.104	0.122	0.199	0.337	0.087	0.341	0.098	0.530	0.170	0.100
L019	3A1	0.115	0.267	0.114	0.135	0.242	0.370	0.112 ††	0.395	0.095	0.490	0.137	0.094
L022	3A1	0.113	0.256	0.108	0.129	0.201	0.312	0.074	0.335	0.093	0.543	0.148	0.103
L023	3A1	0.130	0.290	0.120	0.150	0.230	0.370	0.090	0.370	0.100	0.580	0.190	0.110
L026	3A1	0.121	0.244	0.115	0.126	0.184	0.321	0.079	0.317	0.095	0.524	0.168	0.106
L027	3A1	0.601 ††	0.286	0.105	0.265 ††	0.311 ††	0.570 ††	0.329 ††	0.326	0.591 ††	0.096 ††	0.149	0.111
L028	3A1	0.110	0.250	0.100	0.130	0.200	0.330	0.070	0.330	0.090	0.530	0.160	0.100
L030	3A1	0.124	0.261	0.130	0.145	0.202	0.376	0.092	0.339	0.100	0.533	0.175	0.111
L032	3A1	0.107	0.285	0.118	0.136	0.212	0.359	0.082	0.379	0.101	0.559	0.174	0.107
L036	3A1	0.121	0.275	0.127	0.146	0.217	0.375	0.088	0.378	0.110	0.605	0.194	0.112
L040	3A1	0.112	0.230	0.103	0.121	0.223	0.356	0.079	0.353	0.099	0.555	0.175	0.103
L042	3A1	0.120	0.270	0.110	0.120	0.200	0.340	0.070	0.350	0.090	0.610	0.150	0.100
L044	3A1	0.109	0.273	0.115	0.132	0.216	0.351	0.079	0.370	0.097	0.546	0.167	0.101
L045	3A1	0.110	0.230	0.100	0.120	0.220	0.350	0.080	0.360	0.110	0.570	0.190	0.110
L046	3A1	0.093	0.253	0.101	0.116								
L053	3A1	0.120	0.280	0.120	0.140	0.220	0.370	0.080	0.380	0.010 ††	0.510	0.170	0.110
L055	3A1	0.124	0.288	0.114	0.137	0.211	0.350	0.075	0.353	0.106	0.610	0.180	0.107
L056	3A1	0.080 ††	0.250	0.080 ††	0.100	0.190	0.320	0.060	0.340	0.080	0.570	0.160	0.090
L060	3A1	0.118	0.276	0.119	0.134	0.218	0.355	0.082	0.366	0.102	0.563	0.172	0.104
L063	3A1	0.100	0.230	0.100	0.120	0.170	0.280 ††	0.060	0.300	0.110	0.570	0.180	0.110
L064	3A1	0.110	0.240	0.100	0.120	0.194	0.379	0.071	0.342	0.100	0.484	0.149	0.115
L080	3A1	0.110	0.282	0.121	0.144	0.244	0.341	0.086	0.359	0.116	0.621	0.199	0.122
L084	3A1	0.108	0.263	0.104	0.124	0.216	0.336	0.084	0.344	0.097	0.541	0.161	0.103
L092	3A1	0.120	0.270	0.110	0.130								
L100	3A1	0.129	0.304	0.116	0.141	0.233	0.367	0.091	0.366	0.110	0.601	0.195	0.112
L123	3A1	140 ††	330 ††	140 ††	150 ††	22 ††	380 ††	80 ††	38 ††	0.110	0.560	0.140	0.120
L126	3A1	0.110	0.300	0.120	0.130	0.229	0.367	0.088	0.376	0.100	0.515	0.139	0.102
L132	3A1	0.120	0.270	0.120	0.140	0.220	0.330	0.080	0.340	0.103	0.595	0.179	0.110
L133	3A1	0.130	0.290	0.130	0.150	0.206	0.345	0.084	0.363	0.121	0.585	0.200	0.117
L137	3A1	0.085 ††	0.216 †	0.074 ††	0.092 †					0.061 ††	0.353 ††	0.094 ††	0.061 ††
L139	3A1									0.110	0.480	0.160	0.120
L140	3A1					0.140 ††	0.210 ††	0.050 ††	0.210 ††	0.130 ††	0.570	0.200	0.110

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Soil pH, 1:5 soil-water (4A1) air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS	ASS
121	122	123	124	31	32	33	34	51	52	53	54		
L001	4A1	6.89	6.51	5.07	6.24	5.16	7.91	5.24	5.01	5.93	5.91	5.41	6.57
L003	4A1									5.8	5.91	5.3	6.42
L006	4A1	6.47 †	6.16 ††	4.8 ††	6 ††	5.21	7.85	5.32	5.01	5.95	6.09	5.34	6.46
L009	4A1	6.95	6.63	5.3	6.47	5.31	7.99	5.49	5.13	5.88	6.06	5.55	6.68
L010	4A1	6.79	6.49	5.07	6.31	5.32	7.86	5.43	5.18	5.85	5.94	5.34	6.54
L011	4A1	6.9	6.5	5.2	6.3	5.19	7.94	5.3	5.02	5.7	5.88	5.26	6.4
L013	4A1	6.8	6.5	5.3	6.3	5.3	7.8	5.5	5.2	5.8	6.1	5.5	6.4
L014	4A1	6.53 †	6.21 ††	4.6 ††	5.93 ††					5.76	5.75	5.19	6.25 †
L018	4A1	7.09	6.66	5.34	6.53	5.46	8.22	5.6	5.2	5.9	6	5.4	6.6
L019	4A1	6.44 †	6.35	5.24	6.21	5.24	7.92	5.42	5.01	5.39 ††	5.63 ††	5.07 †	6.25 †
L022	4A1	6.93	6.56	5.3	6.41	5.26	8.12	5.45	5.08	5.95	6.04	5.44	6.57
L023	4A1	6.93	6.58	5.27	6.44	5.26	7.95	5.36	5.05	5.89	5.84	5.28	6.5
L026	4A1	6.98	6.59	5.27	6.43	5.21	8.02	5.41	5.09	5.84	6.03	5.38	6.54
L027	4A1	6.67	6.72	6.39 ††	6.3	5.85 ††	7.29 ††	6.18 ††	5.72 ††	6	6.3 ††	5.7	6.7
L028	4A1	6.8	6.6	5.2	6.4	5.1	7.9	5.2	5	5.5 ††	5.8	5.2	6.1 ††
L029	4A1	6.83	6.53	5.57 ††	6.4					6.21	5.86	5.82 ††	6.39
L030	4A1	6.95	6.52	5.13	6.29	5.15	7.92	5.21	5.02	5.72	5.94	5.35	6.54
L032	4A1	7.09	6.62	5.33	6.44	5.35	8.02	5.48	5.14	5.96	6.02	5.43	6.61
L036	4A1	7.08	6.61	5.24	6.42	5.32	8.02	5.49	5.14	5.94	5.9	5.41	6.56
L040	4A1	6.59	6.4	5.25	6.17	5.13	7.86	5.26	4.97	5.91	5.93	5.29	6.48
L042	4A1	6.96	6.6	5.29	6.44	5.22	8.01	5.42	5.02	5.92	5.99	5.48	6.58
L044	4A1	6.91	6.52	5.25	6.41	5.22	7.86	5.37	5.08	6.06	5.96	5.46	6.46
L045	4A1	6.7	6.4	5.2	6.3	5.2	7.6 ††	5.3	5.1	6	6	5.5	6.7
L046	4A1	6.8	6.52	5.44	6.41								
L053	4A1	7.1	6.7	5.4	6.6	5.3	8	5.5	5.1	5.9	6	5.5	6.6
L055	4A1	6.99	6.69	5.44	6.54	5.3	7.99	5.5	5.1	5.85	5.94	5.4	6.54
L056	4A1	6.96	6.53	5.22	6.42	5.23	8.03	5.36	5.04	5.91	6.08	5.45	6.61
L060	4A1	6.58	6.42	5.39	6.45	5.38	8.04	5.55	5.16	6.03	5.95	5.5	6.4
L063	4A1	7.1	6.67	5.3	6.51	5.25	8	5.4	5.1	6	6	5.4	6.6
L080	4A1	7.63 ††	7.03 ††	5.55 ††	5.93 ††	5.49 ††	6.67 ††	6.61 ††	5.63 ††	6.18	5.93	5.35	6.27
L084	4A1	6.67	6.49	5.37	6.41	5.18	7.73	5.36	5.07	6.01	5.87	5.49	6.09 ††
L091	4A1									5.87	5.96	5.44	6.46
L092	4A1	6.91	6.45	5.28	6.36								
L100	4A1	6.85	6.61	5.24	6.32	5.31	7.93	5.43	5.18	6	5.84	5.37	6.53
L108	4A1	6.8	6.51	5.11	6.12								
L123	4A1	6.4 ††	6.2 ††	5.1	6.2	5.1	7.7	5.3	5.1	5.64	5.78	5.13	6.1 ††
L126	4A1	6.6	6.14 ††	4.78 ††	5.88 ††	4.72 ††	7.46 ††	4.83 ††	4.61 ††	5.71	5.72	5.14	6.35
L132	4A1	6.86	6.57	5.3	6.44	5.3	8.01	5.43	5.1	5.89	6.02	5.39	6.54
L133	4A1	6.4 ††	6.2 ††	4.7 ††	6 ††	5.2	8	5.4	5	5.8	6	5.4	6.4
L137	4A1	6.89	6.52	5.35	6.32					5.99	5.61 ††	5.54	6.08 ††

L139	4A1									5.6	5.9	5.2	6.2 †
L140	4A1	6.5 †	6.6	5.4	6.5	5.1	7.8	5.5	5.1	6.1	6.1	5.5	6.5

Lab. Code #	Method Codes	2005-06 Soil pH, 1:5 soil-water (4B1) air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	4B1	6.21	5.96	4.47	5.6 †	4.67	7.15	4.61	4.65				
L009	4B1	6.23	6.02	4.54	5.73	4.73	7.29	4.65	4.68	5.21	5.77	4.81	5.81
L011	4B1	6.4	6.2	4.7	5.8	4.77	7.37	4.67	4.71	5.16	5.82	4.71	5.86
L014	4B1	6.48	6.36	4.74	5.98 †					5.9 ††	6.17	5.33 ††	5.99
L019	4B1	6.26	5.99	4.58	5.56 †								
L029	4B1	5.56	5.4 ††	4.14 ††	5.21 ††					5.68 †	5.38	5.56 ††	5.35 ††
L036	4B1	6.2	6.13	4.66	5.76					5.23	5.61	4.82	5.82
L042	4B1	6.27	6.07	4.58	5.75	4.75	7.23	4.62	4.66	5.4	5.91	5.02	5.98
L044	4B1	6.34	6.03	4.55	5.71	4.74	7.1	4.62	4.72	5.29	5.82	4.89	5.76
L055	4B1	6.54	6.34	4.73	5.8	4.73	7.27	4.63	4.65	5.2	5.71	4.8	5.8
L060	4B1	5.86	5.91	4.72	5.71	4.77	7.07	4.63	4.64	5.21	5.6	4.78	5.67
L064	4B1	6.73	6.31	4.8	5.82	4.82	7.33	4.68	4.81	5.32	5.76	4.84	5.84
L091	4B1									5.58	5.71	5.01	5.5
L092	4B1	6.25	6.03	4.64	5.74								
L100	4B1	6.54	6.24	4.66	5.74	4.86 †	7.17	4.7	4.7	5.31	5.64	4.8	5.85
L123	4B1					4.7	6.5 ††	4.7	4.7	5.23	5.61	4.71	5.66
L126	4B1					4.48 ††	6.91	4.28 ††	4.34 ††	5.04	5.48	4.59	5.66
L133	4B1	5.7	5.7	4.2 ††	5.4 ††	4.9 †	7.1	4.8 ††	4.9 ††	5.6	6	5	5.7
L137	4B1	6.04	5.97	4.76	5.36 ††					5.33	5.29	4.8	5.46

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Soil pH, 1:5 soil-0.01 M CaCl <sub>2</sub> - indirect (4B2) air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	4B2									5.11	5.6	4.63 †	5.63 †
L006	4B2	6.12	6.01	4.56	5.68 †	4.66	7.2	4.55 ††	4.57 †	5.12	5.76	4.73	5.74
L014	4B2	6.45	6.38 ††	4.74	6.01 ††					5.68 ††	6.02 †	5.38 ††	6.17 ††
L018	4B2	6.4	6.13	4.62	5.77	4.77	7.44	4.66	4.73	5.3	5.7	4.8	5.8
L019	4B2					4.73	7.29	4.71	4.54 ††	5.02 †	5.6	4.79	5.65
L022	4B2	6.18	6.1	4.64	5.81	4.81	7.47	4.67	4.75	5.27	5.78	4.8	5.78
L023	4B2	6.33	6.13	4.62	5.8	4.82	7.41	4.64	4.69	5.2	5.58	4.74	5.8
L026	4B2	6.41	6.18	4.71	5.87	4.81	7.5	4.7	4.72	5.28	5.8	4.86	5.85
L027	4B2	6.25	6.08	4.57	5.74	4.58	7.09	4.41 ††	4.48 ††	5.7 ††	5.2 ††	4.8	5.8
L028	4B2	6.3	6.1	4.6	5.8	4.9	7.4	4.8 †	4.8				
L030	4B2	6.4	6.13	4.64	5.81	4.82	7.5	4.69	4.75	5.31	5.78	4.77	5.84
L032	4B2	6.38	6.11	4.63	5.76	4.82	7.45	4.7	4.74	5.27	5.76	4.82	5.83
L036	4B2	6.49	6.25 †	4.79	5.89 †	4.78	7.45	4.65	4.7	5.28	5.66	4.78	5.85
L040	4B2	5.95	5.98 †	4.52	5.58 ††	4.72	7.33	4.59 †	4.69	5.32	5.72	4.82	5.79
L044	4B2					4.73	7.2	4.6 †	4.71	5.29	5.82	4.89	5.76
L045	4B2	6.2	6.1	4.6	5.8	4.8	7.3	4.7	4.7	5.3	5.8	4.8	5.9
L046	4B2	6.23	6.12	4.7	5.81								
L053	4B2	6.6	6.2	4.8	5.9 †	5.1 ††	7.3	5 ††	4.8	5.4	5.7	4.9	5.8
L055	4B2	6.55	6.3 ††	4.72	5.84	4.7	7.3	4.56 †	4.62	5.23	5.72	4.81	5.83
L056	4B2	6.5	6.14	4.64	5.79	4.78	7.47	4.7	4.74	5.32	5.83	4.9	5.86
L063	4B2	6.59	6.16	4.98 ††	6.06 ††	4.9	7.55	4.8 †	4.8	5.7 ††	5.8	5 †	6.1 ††
L084	4B2	6.15	6.11	4.63	5.8	4.73	7.29	4.68	4.7	5.43	5.6	4.94	5.45 ††
L123	4B2					4.7	6.6 ††	4.7	4.8				
L126	4B2	6.28	5.97 †	4.43	5.55 ††	4.71	7.2	4.7	4.78	5.05 †	5.51	4.55 ††	5.6 †
L132	4B2	6.37	6.05	4.62	5.77	4.74	7.39	4.59 †	4.65	5.2	5.72	4.82	5.75
L140	4B2	6.3	5.9 ††	4.7	5.8	4.5 ††	7.1	4.5 ††	4.5 ††	5.5 †	5.9	4.9	5.8

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Water soluble Cl - potentiometric (5A1) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	5A1									2.25	1.83 ††	26.7	25.5
L003	5A1									46.9	535 ††	226 ††	149 ††
L009	5A1	18.4	17.9	18.3	16.3	8.97	12.9	6.99	10.6 ††	25.7	40.8 ††	26.1	28
L011	5A1	14	22	28	23	33	25	128 ††	118 ††	17	183	28	30
L013	5A1	3	13	13	15	10	113	9	66				
L018	5A1					26	124	16	71	3.1	176	33	28
L023	5A1	9.12	19.1	33.9	29.6	25.4	157	21.9	78	7.1	180	23.7	26
L030	5A1	12.5	18.9	21.8	14.5								
L040	5A1	45.3 ††	30.8	43.5	36.2	18	33	17	17 ††	13	189	26	30
L055	5A1	5.8	9.1	14.7	10.1	17	130	21	81.4	22	195	42	51 †
L060	5A1	12.1	9.65	4.45	8.41	25.8	116	21.6	74.5	11.2	171	31.6	31.8
L063	5A1	7.1	35	41	32	0.11	0.43	0.1	0.28 ††	16	209	51 †	51 †
L064	5A1	8.13	26.2	44.1	23.4	41.2	150	28.9	82.5	7.75	179	29.5	25.6
L080	5A1	11.6	36.5	34.4	29.4	46.5	172	28.7	110 †				
L084	5A1	31 ††	50	45	38					29	200	55 †	50 †
L123	5A1	5	20	31	21								
L133	5A1	0.5	0.5	0.5	36.6					45	195	40	60 ††
L137	5A1	0	0	0	0					16	205	33	33
L140	5A1									16	100 ††	18	31

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Water soluble Cl - autocolour (5A2) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	5A2	3.4	18	16	24	16.7	121	12.67	72.3				
L019	5A2	16.7	22.1	63.7 ††	40.75 ††	32 †	288 ††	64 ††	106 ††	105 ††	198	88 ††	95 ††
L022	5A2	4.8	15	19	13.9	22.9	117.5	17.5	75.1	5.6	186	25	28
L026	5A2	4.2	12	19	10	22	120	18	71	3	187	22	28
L027	5A2	12.5	20	10	10	77.9 ††	122	61 ††	116 ††	320 ††	0 ††	30	20
L028	5A2	3	3	13	3	19	116	14	71	3	184	26	29
L030	5A2	1.24	13.2	18.8	12	20.2	114 †	14.9	69.7	2.97	182	23.9	24.6
L032	5A2	3.9	21	20	17	24	125	19	79	6.3	184	27	27
L044	5A2									2.3	190	22	26
L045	5A2	10	14	15	25	19	122	26	71	21 †	62 ††	15	20
L080	5A2									10.8	206	46.8 ††	39.1 †
L084	5A2					41 ††	122	24	79				
L123	5A2									24.6 †	179	32.7	42.5 ††
L126	5A2	17.4	27.1	29.7 †	35.4					52 ††	155 †	30	23
L132	5A2	0.62	15	16	15	22	121	15	73	3.5	198	27	26
L133	5A2					15	45 ††	26	33 ††				
L139	5A2									17	145 †	26	31



Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Organic Carbon - W&B (6A1) %C											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	6A1									0.85	0.6	1.12 ††	0.556
L006	6A1	1.42	4.63	0.477	2.23	4.15 ††	0.888	1.98	0.869	1.12	0.802	2.92	0.463
L009	6A1	1.83	5.19	0.701	2.44	5.32 ††	1.1	2.71	1.21	1.49	1.11	3.51	0.678
L011	6A1	2.1 ††	5.3	0.76	2.5	4.64	1.55	2.55	1.09	1.3	1	2 ††	0.55
L013	6A1									0.62	0.61	2.3 ††	0.31 †
L014	6A1	2.59 ††	4.73	2.33 ††	5.09 ††					0.8	0.64	1.14 ††	0.66
L018	6A1	1.51	4.67	0.483	2.34	4.76	0.99	2.3	0.99	1.27	0.98	3.34	0.53
L022	6A1	1.7	4.54	0.57	2.46	4.94	1.06	2.5	0.99	1.23	1.01	3.39	0.59
L023	6A1	1.72	4.77	0.5	2.34	4.91	1.33	2.29	0.87	1.2	0.95	3.4	0.54
L026	6A1	1.52	4.43	0.463	2.28	4.75	0.939	2.27	0.865	1.2	0.9	3.31	0.493
L028	6A1	1.59	5.38	0.73	2.47	4.87	1.27	2.18	1.07	1.57	1.06	3.24	0.08 ††
L030	6A1	1.67	4.97	0.572	2.43	4.71	1.3	2.35	1.06	1.73	1.33	3.47	0.587
L040	6A1	1.79	4.35	0.8	2.65	4.96	1.28	2.66	1.19	1.36	1.03	3.25	0.608
L045	6A1	1.62	4.8	0.7	2.71	4.75	1	2.36	1.01	3.03 ††	2.51 ††	7.92 ††	1.43 ††
L060	6A1	1.48	4.17	0.492	2.16	4 ††	0.814	1.98	0.832	1.51	1.11	3.85	0.762
L064	6A1	1.72	5.36	0.38	2.73	5.06	1.14	2.39	0.94	1.28	0.97	3.46	0.38
L080	6A1	1.60	4.53	0.519	2.2	4.84	1.67	2.66	1.18	1.45	1.06	3.46	0.624
L084	6A1	1.56	4.48	0.58	2.43	4.81	0.96	2.33	0.98	1.28	0.9	3.25	0.59
L123	6A1									1.31	1.23	3.67	0.67
L137	6A1	1.53	4.56	0.655	2.45					1.54	1.15	3.64	0.724

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Organic Carbon - Other (Pooled) %C											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	6A1									0.85	0.6	1.12 ††	0.556
L006	6A1	1.42	4.63	0.477	2.23	4.15 ††	0.888	1.98	0.869	1.12	0.802	2.92 †	0.463
L009	6A1	1.83	5.19	0.701	2.44	5.32 †	1.1	2.71	1.21	1.49	1.11	3.51	0.678
L011	6A1	2.1 ††	5.3	0.76	2.5	4.64	1.55	2.55	1.09	1.3	1	2 ††	0.55
L013	6A1									0.62 ††	0.61	2.3 ††	0.31
L014	6A1	2.59 ††	4.73	2.33 ††	5.09 ††					0.8	0.64	1.14 ††	0.66
L018	6A1	1.51	4.67	0.483	2.34	4.76	0.99	2.3	0.99	1.27	0.98	3.34	0.53
L022	6A1	1.7	4.54	0.57	2.46	4.94	1.06	2.5	0.99	1.23	1.01	3.39	0.59
L023	6A1	1.72	4.77	0.5	2.34	4.91	1.33	2.29	0.87	1.2	0.95	3.4	0.54
L026	6A1	1.52	4.43	0.463	2.28	4.75	0.939	2.27	0.865	1.2	0.9	3.31	0.493
L028	6A1	1.59	5.38	0.73	2.47	4.87	1.27	2.18	1.07	1.57	1.06	3.24	0.08 ††
L029	Other									1.73	0.68	2.87 †	0.2 ††
L030	6A1	1.67	4.97	0.572	2.43	4.71	1.3	2.35	1.06	1.73	1.33	3.47	0.587
L040	6A1	1.79	4.35	0.8	2.65	4.96	1.28	2.66	1.19	1.36	1.03	3.25	0.608
L045	6A1	1.62	4.8	0.7	2.71	4.75	1	2.36	1.01	3.03 ††	2.51 ††	7.92 ††	1.43 ††
L060	6A1	1.48	4.17	0.492	2.16	4 ††	0.814	1.98	0.832	1.51	1.11	3.85	0.762
L064	6A1	1.72	5.36	0.38	2.73	5.06	1.14	2.39	0.94	1.28	0.97	3.46	0.38
L080	6A1	1.60	4.53	0.519	2.2	4.84	1.67	2.66	1.18	1.45	1.06	3.46	0.624
L084	6A1	1.56	4.48	0.58	2.43	4.81	0.96	2.33	0.98	1.28	0.9	3.25	0.59
L100	Other	1.51	4.36	0.525	2.24	4.46	0.971	2.19	1	1.38	0.998	3.4	0.732
L123	Other	2.4 ††	9.6 ††	0.8	4.9 ††	5.5 ††	1.5	3.5 ††	1.7 ††	1.31	1.23	3.67	0.67
L137	6A1	1.53	4.56	0.655	2.45					1.54	1.15	3.64	0.724

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Total Organic C - HF Induction, IR (6B3) %C											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	6B3	1.61	5.08	0.6	2.52	5.36	1.08	2.55	1.05	1.33	1.1	4.03	0.66
L010	6B3	1.93	5.79	0.58	2.53	5.61	1.14	2.66	0.95	1.49	1.19	4.2	0.641
L018	6B3					5.35	1.14	2.56	1.02				
L019	6B3	1.99	6.29 ††	0.68 ††	3.23 ††	5.54	1.18	2.71	1.09	1.34	1	3.82	0.62
L027	6B3	1.45	4.23 ††	0.42 ††	2.43	3.86 ††	0.78 ††	2.3	0.85	0.821 ††	1	2.93 ††	0.52 ††
L030	6B3	1.85	5.2	0.597	2.57					1.42	1.1	4	0.665
L032	6B3	1.84	5.09	0.581	2.54	5.39	1.14	2.62	1.07	1.57	1.11	4.02	0.652
L042	6B3	1.88	5.2	0.57	2.61	5.48	1.09	2.63	1.01	1.49	1.14	4.15	0.64
L046	6B3	1.75	5.13	0.567	2.47								
L063	6B3	1.81	5.44	0.6	2.63	5.56	1.28	2.72	1.09	1.53	1.08	4.12	0.67

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Total Organic C - Heanes/HF Induction, Vol/HF Induction, IR/Other (Pooled) %C											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	6B3	1.61	5.08	0.6	2.52	5.36	1.08	2.55	1.05	1.33	1.1	4.03	0.66
L010	6B3	1.93	5.79	0.58	2.53	5.61	1.14	2.66	0.95	1.49	1.19	4.2	0.641
L013	6B2	1.85	5.14	0.59	2.5	5.3	1.1	2.6	1				
L018	6B3					5.35	1.14	2.56	1.02	1.54	1.23	3.99	
L019	6B3	1.99	6.29 ††	0.68 †	3.23 ††	5.54	1.18	2.71	1.09	1.34	1	3.82	0.62
L022	6B1	1.78	4.98	0.58	2.62	5.1	1.09	2.6	1	1.42	1.11	3.68	0.63
L023	6B2	1.84	4.96	0.63	2.56	5.34	1.21	2.75	1.15	1.6	1.1	3.7	0.74
L027	6B3	1.45 ††	4.23 ††	0.42 ††	2.43	3.86 ††	0.78 ††	2.3 ††	0.85 ††	0.821 ††	1	2.93 ††	0.52 ††
L028	Other	1.9	5.7	0.6	2.6	5.6	1.1	2.5	1				
L030	6B3	1.85	5.2	0.597	2.57	5.49	1.14	2.67	1.03	1.42	1.1	4	0.665
L032	6B3	1.84	5.09	0.581	2.54	5.39	1.14	2.62	1.07	1.57	1.11	4.02	0.652
L040	6B2	1.92	5.11	0.62	2.67	5.66	1.17	2.63	1.03	1.49	1.14	4.21	0.65
L042	6B3	1.88	5.2	0.57	2.61	5.48	1.09	2.63	1.01	1.49	1.14	4.15	0.64
L045	6B2	1.87	5.36	0.6	2.76								
L046	6B3	1.75	5.13	0.567	2.47								
L053	6B1					4.52 ††	0.97 †	2.06 ††	0.95				
L055	Other	1.74	4.46	0.52	2.4	4.5 ††	1.04	2.47	0.96	1.19	0.945	3.64	0.59
L056	Other	1.52 †	4.22 ††	0.517 †	2.27 ††	4.64 †	1.06	2.29 ††	0.862 ††	1.23	0.99	3.28	0.573
L060	6B1	1.52 †	4.68	0.667	2.29 †	4.59 †	1.14	2.61	1.05	1.73	1.59 ††	4.82	1.09 ††
L063	6B3	1.81	5.44	0.6	2.63	5.56	1.28	2.72	1.09	1.53	1.08	4.12	0.67
L097	Other	1.53 †	5.3	0.599	2.58	5.54	1.15	2.66	1.03	1.58	1.21	0.156 ††	0.679
L108	6B1	1.85	5.06	0.651	2.35								
L123	Other	1.4 ††	5.6	0.5 ††	2.8					0.003 ††	0.002 ††	0.007 ††	0.003 ††
L140	6B1					5.65	1.3	2.8	1.25 ††				

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Total N - Kjeldahl, steam distillation (7A1) %N											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	7A1									0.088	0.14	0.256	0.065
L006	7A1	0.143	0.434	0.064	0.001	0.47	0.102	0.182	0.115	0.089	0.142	0.274	0.048
L014	7A1	0.001 ††	0.005 ††	0.007 ††	0.001					0.01	0.01 ††	0.02 ††	0.01
L023	7A1					0.54	0.12	0.17	0.085				
L029	7A1	0.144	0.472	0.067	0.142					0.11	0.15	0.28	0.07
L044	7A1	0.158	0.478	0.069	0.184	0.483	0.112	0.147	0.087				
L060	7A1	0.098	0.281 †	0.044	0.108	0.489	0.11	0.147	0.047	0.071	0.113	0.204 †	0.047
L064	7A1	0.161	0.503	0.075	0.244	0.472	0.142	0.143	0.065	0.088	0.179	0.271	0.075
L091	7A1									0.14	0.13	0.27	0.16 ††
L108	7A1	0.169	0.438	0.078	0.176								
L123	7A1									0.1	0.36 ††	0.11 ††	0.037
L133	7A1	0.014 ††	0.008 ††	0.017 ††	0.001	0.005 ††	0.012 ††	0 ††	0.015	0.071	0.096	0.11 ††	0.031
L137	7A1	0.161	0.46	0.074	0.187					0.092	0.149	0.266	0.064
L140	7A1	0.2	0.5	0.065	0.2	0.69 ††	0.16	0.18	0.1	0.11	0.13	0.25	0.052

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Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Total N - Kjeldahl, autocolour (7A2) %N											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L009	7A2	0.197 ††	0.565	0.084	0.205	0.577	0.103	0.174	0.081	0.105	0.155	0.305	0.068
L018	7A2	0.16	0.43	0.064	0.178	0.513	0.121	0.161	0.085	0.086	0.14	0.263	0.053
L023	7A2	0.16	0.43	0.07	0.19					0.1	0.16	0.27	0.06
L026	7A2	0.164	0.482	0.064	0.181	0.518	0.132	0.175	0.106	0.090	0.139	0.278	0.050
L027	7A2	0.185	0.069 ††	0.077	0.188	0.405 †	0.137	0.104 ††	0.103	0.21 ††	0.138	0.387 ††	0.079
L036	7A2	0.158	0.499	0.066	0.188	0.517	0.114	0.158	0.081				
L055	7A2	0.14	0.408	0.061	0.164	0.493	0.115	0.149	0.073	0.082	0.131	0.249	0.054
L084	7A2	0.153	0.427	0.063	0.172	0.508	0.117	0.167	0.088	0.074	0.118	0.22 †	0.041
L123	7A2					5800 ††	1200 ††	1800 ††	870 ††				
L126	7A2	0.17	0.5	0.0756	0.169	0.584	0.135	0.182	0.091	0.095	0.153	0.271	0.063

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Total N (Dumas) %N											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	Dumas	0.124	0.446	0.05	0.169	0.512	0.091	0.145	0.068	0.089	0.154	0.294	0.058
L010	Dumas	0.17	0.526	0.061	0.176	0.542	0.116	0.162	0.08	0.088	0.147	0.28	0.048
L011	Dumas	0.15	0.46	0.06	0.17	0.517	0.084	0.153	0.067				
L013	Dumas	0.16	0.48	0.06	0.17	0.56	0.12	0.18	0.11	0.08	0.12	0.29	0.04
L019	Dumas	0.17	0.63 ††	0.09	0.22 ††	0.52	0.12	0.15	0.08	0.11	0.15	0.31	0.08
L022	Dumas	0.14	0.5	0.06	0.17	0.535	0.116	0.182	0.087	0.091	0.13	0.289	0.062
L023	Dumas									0.08	0.14	0.31	0.03
L028	Dumas	0.16	0.49	0.07	0.17	0.55	0.12	0.17	0.09	0.07	0.12	0.26	0.04
L030	Dumas	0.153	0.473	0.064	0.172	0.552	0.114	0.161	0.084	0.088	0.143	0.276	0.052
L032	Dumas	0.17	0.479	0.069	0.182	0.544	0.126	0.173	0.096	0.104	0.145	0.289	0.056
L040	Dumas	0.165	0.478	0.07	0.185	0.567	0.123	0.171	0.092	0.095	0.13	0.29	0.052
L042	Dumas	0.17	0.48	0.07	0.18	0.53	0.1	0.16	0.09	0.1	0.16	0.31	0.07
L045	Dumas	0.17	0.5	0.08	0.19	0.59	0.14	0.2	0.11	0.13	0.15	0.32	0.08
L046	Dumas	0.143	0.465	0.061	0.159								
L055	Dumas	0.155	0.421	0.058	0.175	0.542	0.148	0.185	0.107	0.088	0.147	0.266	0.043
L063	Dumas	0.16	0.5	0.07	0.18	0.55	0.13	0.17	0.09	0.11	0.14	0.28	0.05
L097	Dumas	0.153	0.511	0.083	0.204 ††	0.575	0.139	0.196	0.108	0.117	0.168	0.024 ††	0.069
L100	Dumas	0.132	0.406	0.072	0.154	0.443 ††	0.111	0.161	0.108	0.096	0.132	0.247	0.067
L132	Dumas	0.173	0.496	0.066	0.162	0.534	0.106	0.15	0.075	0.076	0.106	0.262	0.034

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Water Soluble Nitrate N - autocolour (7B1) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L011	7B1	39	10 ††	37	3.3	28 ††	1 ††	0.3	41	6.6 ††	55 ††	2	34 ††
L026	7B1	38	103	30	6.2	61	4.4	1.5 ††	135	23	176	3.4	28
L027	7B1	0.14 ††	0 ††	3.2 ††	0.06 ††	0.15 ††	0.11 ††	0.15	88.3	191 ††	0.3 ††	0.03	18.4 ††
L028	7B1	35	104	25	6	43	6	0.5	128	24	159	3	27
L040	7B1	38	88.7	26.9	5.74	56	5.7	0.295	129	30 ††	129	4.8	32 †
L045	7B1	49 ††	115	31	7.7	53	5.3	0	160	5.7 ††	53 ††	0.25	7.4 ††
L055	7B1	39	104	26	5	56	5.7	0.4	162	23	178	3.1	28
L064	7B1	41	107	30	7.5	42	5.23	2.84 ††	80.2	35.7 ††	176	4.9	36.8 ††
L080	7B1	40.2	115	27.5	7.2	52.1	6.02	1.01	116	23.8	171	3.78	28.8
L123	7B1							0.02	92		146	0.3	0.53 ††
L132	7B1	41	115	29	6.4	58	5.2	0.3	176	24	179	3.3	28
L133	7B1	6.91 ††	19 ††	4.7 ††	0.89	50	5.1	0.3	143	24	165	3.1	28
L139	7B1									23	134	2.5	27
L140	7B1	39	120	31	8.4	57	4.8	1.1 †	150				

Lab. Code #	Method Codes	Soil sample identification and values for 2005-06 KCL Extractable Nitrate N - autocolour (7C2) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	7C2	36	96	25	5.3	52	5.8	0.75	155	23.8	186	3.05	27.8
L010	7C2	32.4 †	88.8	22.8 ††	5.2	5.76 ††	5.46	0.2	155	24	176	3.15	28.6
L013	7C2	36.1	89.5	23.4	12.9 ††	10 ††	1.3 ††	0.1	29.6 ††	22.5	197	3.4	26.5
L018	7C2	38	99	27	6.1	50	5.6	0.93	146	24	180	3.2	28
L019	7C2	33	84	21.4 ††	3.9	44 ††	4 ††	0.4	107 ††	23.1	172	4.9 ††	25
L022	7C2	39	103	28	5.8	52	5.8	0.5	151	24.6	179	3.7	29.8
L023	7C2	38.4	101	25.4	5.1	54	5.4	0.16	149	23.1	184	2.74	27.8
L028	7C2	40	104	28	7	55	7 ††	2 ††	144	23	199	4	31
L030	7C2	36.4	113	27.7	6.75	49.6	5 †	0	144	26.1	18 ††	2.83	27.8
L032	7C2	38	102	27	5.7	50	5.2	0.19	149	24	175	2.9	29
L036	7C2	39	98	27	5.2	53.1	4.27 ††	0.13	133	21.9	185	2.37	26.6
L042	7C2	41.7	106	27.8	12.2 ††	53	5.5	0.2	150	27	205	3.14	30.1
L044	7C2	38.8	99.2	26.9	5.8	51.6	5.8	1.1	160	20.8	164	4.1	23.9
L046	7C2					45	5.38	0.99	151				
L055	7C2	39	107	25	5.1	53	4.8 †	0.3	154	22	176	3.2	27
L060	7C2	37.8	62.5 ††	28.5	6.29	46.9	5.36	1.12	85.8 ††	24.5	99.3 ††	2.63	29
L084	7C2	36	90	28	5.9					27.1	140 †	3.8	27.4
L097	7C2	40	103	28	6	56	5.4	0.08	165	29.1 †	210 †	3.1	30.9
L126	7C2	39.3	110	29.9	6.04	50	5.5	1	145	28	179	3.5	31
L132	7C2	37	101	27	5.8	52	5.5	0.3	149	24	175	3.2	28
L137	7C2	84 ††	117	60 ††	24 ††					7 ††	84 ††	2.8	2.8 ††
L140	7C2									8.3 ††	59 ††	4.6 †	7.2 ††



Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 KCL Extractable Ammonium N - autocolour (7C2) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	7C2	20	6.5	18	18	32	18	38	13	16.6	38.3	37.5	8.82
L010	7C2	16.4	6.32	16.4	14.1 ††	30.3	16.1	36.1	12.8	15.2	34.2	34.7 †	8.01
L011	7C2					15 ††	6.9 ††	21 ††	9 ††	11	21 †	13 ††	7.3
L013	7C2	17.9	9.9	18.4	17.2	6.3 ††	3.3 ††	7.9 ††	2.7 ††	12.6	20.3 †	36.1	8.8
L018	7C2	21	10	20	19	31	17	37	13	16	39	38	9.8
L019	7C2	11.9 ††	5.3	10.6 ††	11.9 ††	18 ††	8.3 ††	25 ††	8.5 ††	11	20.5 †	16.4 ††	6.9
L022	7C2	20.7	7.3	19.7	16.9	31.5	17.2	39.2	13.2	16.2	37.2	37.9	9.9
L023	7C2	19.4	9.1	19.4	17.3	32.5	16.4	35.5	12.8	17.5	26.8	37.4	10.2
L026	7C2	22	8.4	21	18	30.5	18	36.5	13	15	35	38	9.8
L028	7C2	25 †	12	22	18	34	19	39	15	16	35	38	10
L030	7C2	21.3	7.98	19.9	16.8	30.8	16.3	36.3	11.7	15.7	3.71 ††	38	9.02
L032	7C2	20	8	18	16	30	17	36	13	18	39	38	9.9
L036	7C2	18	9.3	20	17	32.6	17.1	36.4	13.1	17.5	26.2	39.6	8.95
L042	7C2	23.7	8.8	22.8	20.1 †	34.9	18.6	40.6	14.3	16.3	40.8	37.4	8.8
L044	7C2	19.9	7.1	19.2	18.5	39.4 ††	19.3	43.4	15.8	13.7	31	30.6 ††	7.14
L045	7C2	16 †	10	19	20 †	30	13 †	29 ††	10 †	18	50 †	39	7.6
L046	7C2					28.5	16.7	34	12.1				
L055	7C2	23	8.7	21	18	33	19	39	14	16	39	40	10
L060	7C2	19.6	6.98	17.2	15.3 †	38.9 ††	24.7 ††	45.6 ††	20.6 ††	17.4	38.1	40.9 †	11.5
L084	7C2	20	9.1	19.1	16.7	34.2	18	39.1	13.5	16.5	38.6	37.6	9.1
L097	7C2	21	8.2	21	17	32	19	40	14	17.6	36.1	14.1 ††	12.3
L123	7C2									68 ††	140 ††	360 ††	34 ††
L126	7C2	21.4	11.5	21.2	17.5	31	21	38	14	13	35	34 †	8.3
L132	7C2	22	9.7	20	18	32	17	37	13	16	36	38	9.4
L133	7C2					9.6 ††	2 ††	10.7 ††	6 ††	6.7 ††	17 ††	7.6 ††	1.6 ††
L137	7C2	48 ††	36 ††	35 ††	41 ††					13	32	41 †	13 ††
L140	7C2	45 ††	67 ††	47 ††	54 ††	40 ††	19	38	12	7.5 ††	18 ††	22 ††	14 ††

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Total P - all methods (other) %P											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	Other	0.045	0.014 ††	0.002 ††	0.017 †	0.135 ††	0.079 ††	0.017	0.013 ††	0.052 †	0.253 ††	0.106 ††	0.374 ††
L009	Other	0.038	0.202	0.0201	0.026	0.185	0.128	0.029	0.024	0.039	0.138	0.07	0.041
L010	Other	0.035	0.22	0.0177	0.023	0.188	0.114	0.023	0.019	0.034	0.133	0.064	0.043
L011	Other	0.04	0.21	0.02	0.03	0.187	0.122	0.025	0.022				
L013	Other	0.052 ††	0.239 †	0.028 ††	0.035 ††	0.169	0.112	0.022	0.021				
L018	Other	0.037	0.202	0.019	0.025	0.175	0.103	0.023	0.021	0.031	0.12	0.061	0.037
L019	Other	0.039	0.181	0.016	0.021					0.027	0.096	0.03 †	0.029
L022	Other	0.038	0.182	0.02	0.027	0.188	0.118	0.029	0.022	0.033	0.133	0.058	0.039
L023	Other	0.04	0.22	0.02	0.03	0.19	0.11	0.022	0.017	0.03	0.11	0.057	0.035
L026	Other	0.035	0.212	0.0194	0.026	0.19	0.129	0.025	0.019	0.030	0.134	0.061	0.037
L027	Other	0.042	0.028 ††	0.0219	0.027	0.136 ††	0.106	0.021	0.024	0.136 ††	0.035 ††	0.079	0.035
L028	Other									0.01 ††	0.03 ††	0.04	0.01 ††
L030	Other	347 ††	1950 ††	231 ††	245 ††	0.2	0.122	0.025	0.022	0.028	0.108	0.054	0.036
L032	Other	0.039	0.185	0.023	0.028					286 ††	1230 ††	549 ††	361 ††
L036	Other	0.037	0.201	0.017	0.026	0.197	0.12	0.026	0.022				
L040	Other	0.04	0.18	0.02	0.02	0.164	0.107	0.027	0.022	0.037	0.12	0.053	0.045
L044	Other	0.033	0.176	0.019	0.024	0.17	0.131	0.027	0.024	0.072 ††	0.276 ††	0.102 ††	0.097 ††
L046	Other	0.038	0.199	0.02	0.025								
L055	Other	0.04	0.181	0.019	0.026	0.168	0.11	0.025	0.021	0.032	0.114	0.05	0.04
L060	Other	0.038	0.13 †	0.013 †	0.023	0.153	0.11	0.044 ††	0.044 ††	0.021	0.105	0.054	0.037
L064	Other	0.034	0.146	0.018	0.0237	0.172	0.117	0.025	0.025	0.032	0.128	0.058	0.043
L084	Other	0.043	0.191	0.02	0.271 ††	0.2	0.114	0.027	0.022	0.031	0.118	0.064	0.042
L108	Other	0.021 ††	0.096 †	0.016	0.0177								
L123	Other									0.034	0.031 ††	0.13 ††	0.014 ††
L126	Other	0.036	0.18	0.017	0.024	0.188	0.117	0.024	0.018	0.038	0.133	0.069	0.049
L133	Other	0.003 ††	0.001 ††	0.001 ††	0.002 ††	0.001 ††	0.01 ††	0.001 ††	0.004 ††	0.016 †	0.051 ††	0.011 ††	0.014 ††
L137	Other	0.041	0.194	0.024 †	0.028					0.082 ††	0.314 ††	0.152 ††	0.104 ††
L140	Other	0.056 ††	0.08 ††	0.021	0.03	0.18	0.12	0.028	0.024	0.038	0.12	0.061	0.042

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Colwell Extractable P - manual (9B1) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	9B1	32	135	9.1	17	89.8	336	15.4	49.5	56.4	147	20.6	41.1
L011	9B1	37	161	10	23	112	386	18	56	69	207	22	55
L019	9B1					106	418	13	53				
L022	9B1	27.8	99.1	7.5	14.8					58.6	177	9.3	48.8
L023	9B1	37.7	156	8.7	18.2	118	422	13.5	57	60	205	16.5	49
L027	9B1	42	149	5	27 †	104	253	7	67	279 ††	87	11	61
L044	9B1	43.2	173	12.4	32.5 ††	132	254	7.9	28.1 ††	60.4	171	15.2	47.7
L060	9B1	29.1	123	8.0	15.6	96.7	382	8.9	55.4	105 ††	863 ††	18.6	9
L064	9B1	31.6	94.7	7.9	16.7	64.6	220	9.6	48.6	58	127	10.3	
L080	9B1	33.1	115	6	16.8	67	209	10.1	51.5	47.8	146	8.9	
L084	9B1	26	124	6	13.7	96.2	318	10.8	50.5	56.4	153	12.7	
L100	9B1					87	394	13	53	64	169	15	
L108	9B1	9.8	20.8	6.0	7.9								
L123	9B1									75	270	25	65
L133	9B1	44.5	156	4.9	24.2	197 ††	361	41.9 ††	67.9 †	75.5	249	94.4 ††	70.1

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Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Colwell Extractable P - autocolour (9B2) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L018	9B2	27	113	5.7	10	84	360	7.8	46	52	180	8.9	46
L019	9B2	27.4	141	4.5	12.4					78 ††	239	15	54
L022	9B2					102	351	11.1	43.5 ††				
L026	9B2	28	124	6.2	11	89	366	8.7	46	56	183	12	49
L028	9B2	33	142	9	20	113	380	11	57 ††	70	214	14	53
L030	9B2	24.7	105	6.5	13.5	99.2	347	10.4	45.9	54.6	160	11.5	42.7
L032	9B2	31	141	6.4	16					58	87	13	48
L036	9B2	36	145	7.6	18	86.8	357	10.5	46.2	52.6	176	10.3	45.4
L040	9B2	46.2 ††	128	22.1 ††	28.1	103	343	10	46	28 ††	73	13	25
L123	9B2	40	200 ††	7.2	18	13 ††	36 ††	0.8 ††	5.9 ††				
L126	9B2	28.4	102	5.7	17.4	86	351	33 ††	47 †	77 ††	255	10.6	58

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Olsen Extractable P - manual (9C1) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	9C1	12.2	36.3	2.06	6.61								
L009	9C1	17.3	46.2	3.56	11.9	44.9	190	8.73	27.4	20.1	47.8	14.1	21.7
L014	9C1	0.73	2.6 ††	0.38	0.39 ††								
L022	9C1	13.1	31.9	2.6	7.6					20.8	53.3	5.2	22.4
L027	9C1	33.2 ††	58.4	2.4	12	31.8	133	8	27.6	50 ††	0 ††	0	20
L044	9C1					42.2	104	13.1	16.1	17	40	8.4	18
L045	9C1	17	45	3.4	8	30	157	6.4	24	23	53	6.1	25
L060	9C1	16.9	42.6	6.98	10.8	34.2	230	12.9	35.5	17.5	45.8	1.43	23.4
L063	9C1	11	32	4	7	23	117	5	21	33	43	8	23
L137	9C1	13	41	3.2	8					38	99 ††	6.2	33 ††

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Olsen Extractable P - autocolour (9C2) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L013	9C2	13	40.7	4	8.5	31.4	181	5.76	20.7	18.8	47.4	6.7	23.2
L022	9C2					27	185	3.4	21.7				
L026	9C2	12	35	2.1	6.9	25	169	4.7	23	21	53	4.8	21
L030	9C2	10.5	30.8	2	5.39	27.3	152	4.02	19.6	18.5	51.7	3.99	19.2
L036	9C2	14	38	2	5.6	25	167	4.63	20.8	17.57	56.2	3.67	19.6
L040	9C2	13.9	33.5	5.51	8.33	36 ††	214	7.3	26 ††	15	38	5.8	16
L042	9C2	11.7	31.5	0.4	6.4	22	148	2.6	20	19.5	48.8	3.4	20.1
L126	9C2	10.3	25.3	1.14	7.36	24	167	3.2	21	26 ††	58	4.4	44 ††
L139	9C2									20	48	5	12

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Bray-1 Extractable P - manual (9E1) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	9E1	20	38.3	2.2	9.7	6.00	174	4.3	36.9	72.3	155	6.3	26.9
L011	9E1	60 ††	43	4.6	28 ††	8.3	256	6	57				
L014	9E1	1.2	1.3	1.2	0.8					12	16.5	0.6 ††	8.7
L027	9E1	8.08	18.9	1.07	9.1	2.9	322	1.8	21.2	128	62	6	22
L029	9E1	22.2	27.6	1.9	10.3					76.9	133	4.9	34.6
L032	9E1	24	66	4.8	17								
L053	9E1	18	30	3	10	3	208	5	52				
L056	9E1	20	40	2.8	9.8	5.8	221	4.4	53	73	130	7	25
L060	9E1	14.7	49	2.6	7.6	14.5 ††	200	3.3	32.1	60	148	5.9	28.9
L063	9E1	14	26	2	7	5.9	67	4.1	33	37	64	6.7	29
L064	9E1	36.8	62.1	5.82	13.3	5.3	75.9	3.3	41.1	50.7	72.8	5.2	35
L137	9E1	35	154 ††	3	14								

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Bray-1 Extractable P - manual, autocolour (9E1, 9E2) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	9E1	20	38.3	2.2	9.7	6.0	174	4.3	36.9	72.3	155	6.3	26.9
L011	9E1	60 ††	43	4.6 ††	28 ††	8.3	256	6	57				
L014	9E1	1.2 ††	1.3	1.2	0.8 ††					12 ††	16.5 ††	0.6 ††	8.7 ††
L019	9E2	18.7	54.6	2.6	8.3	3	23.7 ††	4	35	72	158	6	28
L023	9E2	22.5	40.3	2.2	9.7	3.8	225	3.2	43	70	165	5.5	31.4
L026	9E2	16	46	0.96	7.5	8.9	171	4.7	36	54	125	5.4	25
L027	9E1	8.1 †	18.9	1.1	9.1	2.9	322	1.8	21.2	128 ††	62 ††	6	22
L029	9E1	22.2	27.6	1.9	10.3					76.9	133	4.9	34.6
L030	9E2	17	47	2.4	9.7	7.0	213	3.8	43.4	72.5	155	6.2	29.7
L032	9E1	24	66	4.8 ††	17 ††								
L036	9E2	18	24	2.2	7.6								
L053	9E1	18	30	3	10	3	208	5	52				
L055	9E2	19	20.7	1.4	9.5	1.6	157	1.7	48.7	60.7	140	4.7	28.3
L056	9E1	20	40	2.8	9.8	5.8	221	4.4	53	73	130	7	25
L060	9E1	14.7	49	2.6	7.6	14.5	200	3.3	32.1	60	148	5.9	28.9
L063	9E1	14	26	2	7 †	5.9	67 †	4.1	33	37 †	64 ††	6.7	29
L064	9E1	36.8 ††	62.1	5.8 ††	13.3 †	5.3	75.9	3.3	41.1	50.7	72.8 ††	5.2	35
L126	9E2	17.1	37.5	2.2	9.2	6.1	153	3.6	49	72	147	5.3	30
L137	9E2	35 ††	154 ††	3	14 †					110 †	228 ††	6	71 ††

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Phosphorus buffer index (9I2a, 9I2b, 9I2c) L/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	9I4C	42.5	408	157	39.7	532	120 ††	139	17.4 ††	81.7	96.1	200	35.5
L011	9I2C	411 ††	1203 ††	607 ††	412 ††	2856	662 ††	639 ††	402 ††				
L018	9I2C	36	388	142	34	944	146	163	31.3				
L022	9I3C	35.9	380	147	39.2	1635	156	166	33	93	112	238	41
L023	9I4C	32.7	524 ††	165	28					88.6	159	264	29.5
L026	9I4C	35.4	402	155	40.2	1001	152	175	36	94.5	121	212	39.5
L028	9I3C	31	419	146	29	1360	162	183	42				
L030	9I2C									103	122	221	61.2
L032	9I4C	31.5	396	144	34.3								
L036	9I4C	48	525 ††	158	39	1314	161	198	34.8	111	85.7	325	54.4
L040	9I4C	44.1	628 ††	163	41.9	1379	163	197	36	101	123	252	38
L044	9I2C	42.8	422	160	44.2	1430	155	206	33.6	97.6	113	211	50.7
L060	9I2C	41.1	408	153	50.5	2431	165	195	28.5	85.4	222 ††	197	32.8
L064	9I3C	34.3	363	146	163 ††	1961	119 ††	169	44	92.6	95.8	236	54.8

Lab. Code #	Method Codes	Soil sample identification and values for											
		<b>NOT ASSESSABLE</b>				2005-06 Phosphorus buffer index (9I3a, 9I3b, 9I3c) L/kg air dry				<b>NOT ASSESSABLE</b>			
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L036	9I4O	53	539	159	41	1348	241.8	200.5	42.87				
L040	9I4O	47.1	643	164	43.6	1445	278	202	48	108	147	244	48
L044	9I2O					1470	191	220	40	101	116	217	56.7
L060	9I2O	49.2	436	159	56	2565 ††	296	208	45.5	80.9	103	193	36
L137	9I2O	34	393	134 ††	28					117	173	221	56

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Phosphate Extractable S (10B3) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L011	10B3	10	43	40	16	150	59	24	27				
L013	10B3	11	36	31	15	133	56	19	24	10	85	40	6
L019	10B3	6.05	31.7	23.5	15	66 ††	54	12 ††	25	7.5	77	34	7
L026	10B3	8.5	34	34	14	137.2	54.1	22.3	28.3	14	108	56	7.8
L028	10B3	11	49	43	18	160	59	25	30	16	129	61	9
L040	10B3	11.7	48.9	43.5	17.5	170	61	23	31	6.5	70	51	1.7
L044	10B3					162	58.2	24.8	35.9				
L139	10B3									13	64	33	7.7

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 KCl <sub>40</sub> Extractable S (Blair <i>et al.</i> ) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	KCl <sub>40</sub>	6.52	39.8	15.9	14.7	69.4	51.9	2.0 ††	16.3	5.6	80.4	30.8	12.1
L011	KCl <sub>40</sub>	4.9	24	10	9.4	49	52	11	26	7.4	82	27	6.9
L018	KCl <sub>40</sub>	12	34	15	15	49	57	12	25	8.3	84	29	7.4
L022	KCl <sub>40</sub>	8.3	28.5	16	14.2	49	55.8	10	28.8	8.4	89	32	8
L023	KCl <sub>40</sub>	13	45	18	21	70.6	69.7 ††	15.1	35.5	12.5	124 ††	52 ††	9.2
L026	KCl <sub>40</sub>	7.9	25	13	12	47.9	56.7	10.3	26.3	7	80	30	6.4
L030	KCl <sub>40</sub>	8	23.2	12.9	12.5	42.3	59	10.1	24.5				
L032	KCl <sub>40</sub>	9.4	33	16	16					9.4	90	33	7.6
L036	KCl <sub>40</sub>	11	37	15	18					10.5	98	38.5	8.3
L064	KCl <sub>40</sub>	14.2	25.8	18.2	15.7	37.6	58.2	16.1	30.4	13.5	65.5	23.2	10.6
L133	KCl <sub>40</sub>	19	40.4	18.8	21.1	18.7	69.3 ††	33.8 ††	62.1 ††	15.7	106	59.6 ††	10.5



Soil sample identification and values for  
2005-06 DTPA Extractable Fe (12A1) mg/kg air dry

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 DTPA Extractable Fe (12A1) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	12A1									19	15.8	86	54.2
L006	12A1	17.7	107	50	47.1	69.5	9.28	168	54	36.9	19.1	101	63.9
L009	12A1	26.5	196 ††	88.9 †	98.8 †	157 ††	33.5 ††	389 ††	107 ††	33	19.6	179 ††	61.4
L011	12A1	22	119	55	108 ††	78	15	183	60	46 †	18	151 ††	49
L013	12A1	29.7	169 ††	84.8 †	67.6	640 ††	30.9 ††	289 ††	87 ††	13	9.8	70.6 †	41.4
L014	12A1	22	128	90 ††	243 ††					72 ††	15	136 ††	39
L018	12A1	16	93	40	42	70	15	151	44				
L019	12A1	16.5	96.8	41.6	68.0	68	16	207 †	65	50 ††	22	141 ††	57
L022	12A1	20.5	108	44	45	74	16.6	154	44	20.5	15.7	90	48.8
L023	12A1	22	92	42	52	66	16	140	49	33.8	32.2 †	93.9	52.4
L026	12A1	18	99	39	56	64.5	12.8	154	52.7	26	17	96	46
L027	12A1	16.4	106	67.9	33.6	68.8	25.1 †	56 ††	41.7	30.2	37.8 ††	137 ††	86.4 †
L028	12A1	14.5	98	43	43	63	13	131	35	19.9	15.9	98.6	55.2
L029	12A1									27.1	30.5 †	134 ††	61.9
L030	12A1	19.1	89.5	40.6	36.3	47.6 ††	10.7	94.1 †	27.9				
L032	12A1	13	89	40	64					34	16	145 ††	45
L036	12A1	25.3	122	69.1	34.9	68	15.3	134	31	18.6	29.6 †	95.6	49.4
L040	12A1	19.6	97.2	59.5	37.1	66	16	135	34	19	22	86	51
L044	12A1	12.8	78.2	36.7	51.3	59.2	13	146	37.4	22	10	92	33
L045	12A1	49 ††	209 ††	66	82	110 ††	70 ††	318 ††	51	25	35 ††	144 ††	72
L055	12A1	16.2	100	55.8	60.8	80.4	17.4	164	41.7	30.2	24.3	96.4	58.6
L060	12A1	15	103	48.2	41.8	66.8	14.4	127	40.8	23.7	12.8	101	45.6
L063	12A1	15	104	50	32	70	18	153	37	21	16	101	57
L080	12A1	12.9	25.6 ††	23.2	21.4	30.7 ††	12.7	34.8 ††	22.8	18.2	12.7	30.0 ††	27.8
L084	12A1	16.4	104	42.7	54.3	81.5	16.5	188	57.5	18.8	12.2	92.7	40.7
L091	12A1									17.5	13.9	94.5	34.2
L100	12A1	24	94	40	52	64	16	135	46	28	23	103	39
L123	12A1	10000 ††	7000 ††	28000 ††	15000 ††	20000 ††	27000 ††	36000 ††	16000 ††	15000 ††	50000 ††	31000 ††	14000 ††
L126	12A1	22	117	91 ††	60	57	19	145	54	21	16	93	73
L133	12A1	26.9	166 ††	78.6 †	54.8	72.5	13.3	140	36.7	20.6	17.2	106	56
L139	12A1									29	80 ††	66 †	87 †

Soil sample identification and values for  
2005-06 DTPA Extractable Cu (12A1) mg/kg air dry

Lab. Code #	Method Codes	Soil sample identification and values for 2005-06 DTPA Extractable Cu (12A1) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	12A1									0.46 †	3.84	10.1	1.7
L006	12A1	0.3	2.94	0.96	0.921	1.07	2.36	2.53 †	0.44	0.41 †	4.91	10.7	4.67 ††
L009	12A1	1.8 ††	4.4 ††	2.72 ††	2.51 ††	3.44 ††	4.34 ††	4.52 ††	1.8 ††	0.46 †	3.43	10.5	1.38
L011	12A1	0.34	2.8	0.96	0.84	1.4	2.9	3.2	0.65	0.3	3	9.3	1.2
L013	12A1	0.6	4.38 ††	1.32 †	1.2 ††	2.48 ††	5.64 ††	5.9 ††	1.18 ††	0.08 ††	3.16	9.18	1.1
L014	12A1	0.43	3.5	1.2	1.3 ††					0.34	4.6	13 †	1.6
L018	12A1	0.36	2.8	0.95	0.84	1.4	2.9	3	0.53				
L019	12A1	0.3	2.4	0.84	0.77	1.3	2.7	3	0.6	0.32	4	10	1.4
L022	12A1	0.34	2.5	0.92	0.77	1.32	2.65	2.64	0.51	0.31	3.43	9.52	1.26
L023	12A1	0.47	2.5	0.89	0.69	1.3	3	2.9	0.53	0.31	6.41	11	1.34
L026	12A1	0.35	2.7	0.87	0.81	1.15	2.6	2.89	0.49	0.25	3.9	9.1	1.2
L027	12A1	0.79 †	3.18	1.93 ††	1.62 ††	0.82	3.74 †	3.61 ††	0.66	6.19 ††	0.44 ††	13.8 ††	1.67
L028	12A1	0.3	2.6	0.9	0.5 ††	1.3	3	3	0.6	0.3	4	10.8	1.4
L029	12A1									0.3	6.76	14.9 ††	1.46
L030	12A1	0.49	2.39	0.85	0.79	0.93	2.36	2.39 ††	0.44				
L032	12A1	0.18	2.3	0.67 †	0.67					0.12 †	3.4	9.5	1
L036	12A1	0.55	3.04	1.06	0.87	1.31	2.98	2.99	0.53	0.27	5.73	11.1	1.22
L040	12A1	0.51	3.11	0.97	0.85	1.1	3.1	3.2	0.60	0.28	4.9	9.9	1.2
L044	12A1	0.17	1.96	0.49 ††	0.57 †	0.98	2.68	2.85	0.48	0.21	2.6	8	1
L045	12A1	2 ††	7.7 ††	2.5 ††	2.3 ††	3 ††	6.3 ††	5.8 ††	2.4 ††	1.3 ††	9.8 ††	16 ††	2.4 ††
L055	12A1	0.38	2.32	0.66 †	0.77	1.31	2.93	3.09	0.58	0.23	4.86	9.77	1.25
L060	12A1	0.34	2.65	0.94	0.79	1.17	3.04	3.05	0.54	0.27	3.54	9.45	1.24
L063	12A1	0.2	2.7	0.7	1	1.2	3	3.2	0.6	0.9 ††	4.2	12	1.5
L080	12A1	0.38	2.71	0.32 ††	0.86	1.14	2.68	2.89	0.55	0.25	3.04	8.02	1.04
L084	12A1	0.32	2.6	0.97	0.76	1.53	2.99	3.1	0.6	0.24	3.32	9.22	1.09
L091	12A1									0.19	0.27 ††	9.08	0.75
L100	12A1	0.53	2.6	0.97	0.82	1.3	3	2.8	0.53	0.25	5.6	10	1.2
L123	12A1	7.3 ††	20 ††	13 ††	7.6 ††	18000 ††	22000 ††	23000 ††	8000 ††	0.27	67 ††	110 ††	11 ††
L126	12A1	0.61	5.1 ††	0.68	1.1 †	0.35 ††	3.1	3.1	0.65	0.75 ††	5.8	9.8	1.5
L133	12A1	0.52	3.51	1.17	0.97	1.51	2.64	2.94	0.53	0.28	3.88	11.3	1.26
L139	12A1									0.4	4.8	6.9 †	1.1

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 DTPA Extractable Mn (12A1) mg/kg air dry											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	12A1									3.31	411	220	54.2
L006	12A1	112	12.4	44.6	289	119	34.4	109	9.6	4.36	450	210	82.9
L009	12A1	133	15.5 †	61.6 †	378 ††	153 ††	50.1 ††	145	12.9 ††	3.51	465	197	57.8
L011	12A1	105	14	45	154 ††	114	39	126	11	3.8	533	218	69
L013	12A1	158 ††	23 ††	69.8 ††	404 ††	216 ††	76.8 ††	236 ††	21.4 ††	3	461	196	47
L014	12A1	122	22 ††	53	270					2 †	199 ††	126 ††	43
L018	12A1	120	13	41	311	115	41	128	11				
L019	12A1	106	11.8	43.8	294	95	37	114	10	4.1	447	216	66
L022	12A1	97	10.5	41	284	105	37.1	110	9.8	3.7	454	189	64
L023	12A1	100	13	39	290	110	39	110	10	4.15	486	209	63.3
L026	12A1	115	12	44	306	105	37.3	116	10.3	3.6	442	202	61
L027	12A1	116	6.49 ††	42.2	300	38.7 ††	46.4 †	180 ††	10.5	512 ††	3.52 ††	233	87.4 †
L028	12A1	112	13	50	349	109	41	118	10.9	4.1	527	252 †	73.8
L029	12A1									4.4	457	226	71.5
L030	12A1	97.3	10.3	36.9	282	92.2	28.3 ††	91	7.49 ††				
L032	12A1	106	12	39	283					3.3	466	209	61
L036	12A1	121	16.1 †	52.8	307	99.4	38.3	116	9.7	3.31	441	213	58.1
L040	12A1	106	12.4	44.4	299	86 †	38	120	10	2.8	342 †	185	59
L044	12A1	128	12.3	30.4	286	67.2 ††	42.6	120	9.12	3.1	534	220	61
L045	12A1	226 ††	44 ††	55	542 ††	109	82 ††	310 ††	12	5.1	796 ††	280 ††	178 ††
L055	12A1	116	12.6	39.1	319	103	40.9	124	10.8	3.03	414	206	70.6
L060	12A1	121	13.9	45.5	329	99	38.3	110	10.1	3.69	465	212	60.5
L063	12A1	117	12	44	360 †	102	40	136	11	3.9	508	229	73
L080	12A1	17.9 ††	14.1	17.4 ††	18.0 ††	27.7 ††	25.8 ††	28 ††	10.6	4.2	36.8 ††	35.5 ††	34.1 ††
L084	12A1	109	11.9	42.4	292	108	38	130	10	3.36	482	216	65.2
L091	12A1									3.1	364 †	182	42.6
L100	12A1	110	14	41	299	111	38	117	11	3.9	100 ††	101 ††	63
L123	12A1	650 ††	890 ††	170 ††	890 ††	1000 ††	220 ††	700 ††	27 ††	66 ††	6100 ††	1300 ††	380 ††
L126	12A1	210 ††	19 ††	38	453 ††	45 ††	52 ††	1950 ††	12	4.2	410	170 †	140 ††
L133	12A1	132	29 ††	58.6	382 ††	108	35.7	117	9.67	3.72	460	211	63.6
L139	12A1									2.7	201 ††	65 ††	39 †

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 DTPA Extractable Zn (12A1) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L003	12A1									0.89 †	1.62	2.79	1.1
L006	12A1	2.2	9.36	0.12	1.39 ††	5.59	1.53	1.42	0.74	0.51	1.26	2.28	47.5 ††
L009	12A1	2.83	11	0.52 ††	2.06	8.43	2.2	1.92	1.14	0.73	1.4	3.51	1.35 ††
L011	12A1	2.8	10	0.42 †	2.1	7.7	2.3	2.2 ††	1.6 ††	0.64	1.3	3	1
L013	12A1	4.84 ††	17 ††	0.44 †	3 ††	13.7 ††	4.08 ††	3.66 ††	2.54 ††	0.3	1.08	2.34	0.84 †
L014	12A1	2.9	7.6	0.68 ††	2					0.6	1.4	3	1.1
L018	12A1	3	11	0.19	2								
L019	12A1	2.52	9.15	0.14	1.85	6.5	1.9	1.8	1	0.54	1.5	3	1.1
L022	12A1	2.72	9.4	0.2	1.85	7.35	1.98	1.65	0.91	0.38	1.32	2.69	1.06
L023	12A1	3.1	10		1.7	7.6	2.2	1.7	1.1	0.47	3.03 ††	3.1	1.09
L026	12A1	3	9.8	0.12	2	6.1	1.74	1.65	0.91	0.51	1.4	2.5	1
L027	12A1	3.73	10.3	1.89 ††	2.85 ††	4.71	2.35	1.75	1.06	1.95 ††	0.72 †	2.85	1.06
L028	12A1	2.5	10.5	0.2	1.9	6.7	2	1.8	1	0.6	1.5	3.2	1.2
L029	12A1									0.67	2.57 ††	3.73	1.43 ††
L030	12A1	2.83	9.03	0.24	1.61	4.41	1.63	1.38	0.92				
L032	12A1	2.5	9.9	0.164	1.9					0.39	1.2	2.6	1
L036	12A1	3.66	12.63 ††	0.2	2.12	6.94	1.93	1.65	1.03	0.59	2.5 ††	3.21	1.07
L040	12A1	3.14	10.6	0.22	1.94	6.3	2	1.8	1.2	0.54	1.72	3.27	1.25
L044	12A1	2.26	7.85	0.38	1.55 †	5.22	1.66	1.46	0.83	0.34	0.96	2.1	0.81 †
L045	12A1	5 ††	15 ††	0.7 ††	3 ††	11 ††	5 ††	2.5 ††	1.8 ††	0.85	3.8 ††	4	2 ††
L055	12A1	2.85	10.5	0.13	1.87	7.11	1.82	1.56	0.99	0.36	1.83	2.69	1.06
L060	12A1	2.82	9.64	0.16	1.83	6.5	2.11	1.69	1	0.37	1.32	2.71	1.08
L063	12A1	2.4	11	0.1	2.3 †	6.4	1.9	1.8	0.9	0.5	1.6	4.2	1.4 ††
L080	12A1	3.01	9.78	0.15	1.99	5.91	1.89	1.61	0.89	0.49	1.26	2.59	1.02
L084	12A1	2.56	9.73	0.17	1.78	7.68	1.96	1.6	0.94	0.42	1.42	2.44	0.96
L091	12A1									0.32	0.69 †	2.20	0.72 ††
L100	12A1	3.5	11	0.21	2	6.6	2.1	1.6	0.96	0.55	2.8 ††	3	1.1
L123	12A1	39 ††	61 ††	19 ††	15 ††	90 ††	41 ††	20 ††	6 ††	9.1 ††	110 ††	43 ††	44 ††
L126	12A1	2.9	9.7	0.06	1.7	2.8 ††	1.9	1.8	0.89	0.46	1.7	1.9	1
L133	12A1	3.27	11.2	0.26	2.34 †	7.19	1.77	1.73	1.12	0.76	1.34	3.2	0.93
L139	12A1									0.5	1.9	1.7	1

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Hot CaCl <sub>2</sub> Extractable B – manual colour (12C1) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L013	12C1	0.6	2.4	0.8	1.5	0.6	2.8	0.7	1.3	0.15	1	0.85	0.6
L014	12C1	2.1 †	3.2	1.2	6.6					0.16	0.3	0.52	0.13
L027	12C1	0.03	0.05 †	0	0.02	0.01 ††	0.15	0.02	0.07				
L064	12C1	0.50	2.09	0.56	1.74	0.6	2.19	0.44	0.78	0.23	1	1.06	0.32
L080	12C1					1.35 ††	3.14	0.76	0.9	0.48 †	0.86	0.82	0.5
L084	12C1	0.42	2.25	0.6	2.34	0.61	2.43	0.63	1.09	0.12	0.42	0.67	0.4
L123	12C1	14 ††	15 ††	5.3 ††	8.1					0.79 ††	0.46	0.1	0.1

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Hot CaCl <sub>2</sub> Extractable B - ICPAES (12C2) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L009	12C2	0.359	1.36	0.392	1	0.388	2.28	0.568	1.51	0.197	0.751	0.475	0.493
L011	12C2	0.28	2.5	0.8	0.63 †	1	3.1	0.796	1.3	0.28	0.95	1.1	0.6
L018	12C2	0.44	1.7	0.55	1.2	0.43	1.83	0.49	1.12				
L019	12C2	0.73	2.61	0.89	1.57	0.97	2.8	0.9	1.4	0.11	91 ††	0.39	0.37 †
L022	12C2	0.41	2.49	0.76	1.44	0.8	2.46	0.79	1.24	0.2	1.11	0.9	0.59
L023	12C2	0.83	1.93	0.8	1.39					0.21	1.2	1.1	0.61
L026	12C2	0.625	2.4	0.717	1.5	0.622	2.52	0.725	1.22	0.16	1.1	0.905	0.568
L028	12C2	0.8	2.8	0.9	1.6	0.8	3	0.7	1.4				
L030	12C2									0.269	0.915	1.17	0.683
L032	12C2	0.762	2.8	1.2	1.8					0.25	1.5	1.3	0.6
L036	12C2	0.477	1.79	0.616	1.25	0.515	2.27	0.628	1.25	0.164	0.889	0.851	0.578
L040	12C2	0.54	1.9	0.46	1.22	0.62	1.7	0.596	0.851	0.13	1.65	1	0.731
L055	12C2	0.513	2.28	0.664	1.32	0.632	3.64	1.26	1.87 †	0.152	1.77	1.11	0.926 ††
L100	12C2	1.1	2.8	1.6 ††	2	1.05	3.4	1.54 ††	2.38 ††	0.497 ††	1.56	1.4	0.796 †
L126	12C2	1.1	2.1	0.92	1.3								
L133	12C2	1.031	3.24	1.198	2.293 ††	24.3 ††	3.85	1.29	1.71	0.387	1.336	1.147	0.627
L139	12C2									0.1	0.7	0.4	0.4 †

Lab. Code #	Method Codes	Soil sample identification and values for											
		Hot CaCl <sub>2</sub> Extractable B - manual colour/ICPAES (12C, Pooled) mg/kg air dry											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L009	12C2	0.36	1.36	0.39	1	0.39	2.28	0.57	1.51	0.2	0.75	0.48	0.49
L011	12C2	0.28	2.5	0.8	0.63	1	3.1	0.80	1.3	0.28	0.95	1.1	0.6
L013	12C1	0.6	2.4	0.8	1.5	0.6	2.8	0.7	1.3	0.15	1	0.85	0.6
L014	12C1	2.1 ††	3.2	1.2	6.6 ††					0.16	0.3	0.52	0.13 ††
L018	12C2	0.44	1.7	0.55	1.2	0.43	1.83	0.49	1.12				
L019	12C2	0.73	2.61	0.89	1.57	0.97	2.8	0.9	1.4	0.11	91 ††	0.39	0.37
L022	12C2	0.41	2.49	0.76	1.44	0.8	2.46	0.79	1.24	0.2	1.11	0.9	0.59
L023	12C2	0.83	1.93	0.8	1.39					0.21	1.2	1.1	0.61
L026	12C2	0.62	2.4	0.72	1.5	0.62	2.52	0.72	1.22	0.16	1.1	0.90	0.57
L027	12C1	0.03	0.05 ††	0 †	0.02 ††	0.01	0.15 ††	0.02 ††	0.07 ††				
L028	12C2	0.8	2.8	0.9	1.6	0.8	3	0.7	1.4				
L030	12C2									0.27	0.92	1.17	0.68
L032	12C2	0.762	2.8	1.2	1.8					0.25	1.5	1.3	0.6
L036	12C2	0.48	1.79	0.62	1.25	0.52	2.27	0.63	1.25	0.16	0.89	0.85	0.58
L040	12C2	0.54	1.9	0.46	1.22	0.62	1.7	0.60	0.85	0.13	1.65	1	0.73
L055	12C2	0.51	2.28	0.66	1.32	0.63	3.64	1.26 ††	1.87	0.15	1.77	1.11	0.93
L064	12C1	0.50	2.09	0.56	1.74	0.6	2.19	0.44	0.78	0.23	1	1.06	0.32
L080	12C1					1.35	3.14	0.76	0.9	0.48 ††	0.86	0.82	0.5
L084	12C1	0.42	2.25	0.6	2.34	0.61	2.43	0.63	1.09	0.12	0.42	0.67	0.4
L100	12C2	1.1	2.8	1.6 †	2	1.05	3.4	1.54 ††	2.38 ††	0.5 ††	1.56	1.4	0.8
L123	12C1	14 ††	15 ††	5.3 ††	8.1 ††					0.79 ††	0.46	0.1	0.1 ††
L126	12C2	1.1	2.1	0.92	1.3								
L133	12C2	1.03	3.24	1.20	2.29	24.3 ††	3.85	1.29 ††	1.71	0.39 †	1.34	1.15	0.63
L139	12C2									0.1	0.7	0.4	0.4

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable Ca - 1M NH4Cl extract (15A1) cmol+/kg											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	15A1	10.1	14.5	3.11	6.03	5.8	16	3.4 ††	3.3	1.86	5.07	6.95	7.38
L003	15A1									0.58 ††	2.13 ††	3.29 ††	3.96 ††
L010	15A1					5.84	14.7	14.5 ††	3.33	1.94	4.78	6.57	6.57
L011	15A1									2.21	5.57	7.61	8.02 †
L014	15A1	14 ††	20 ††	4.1 ††	8.3 ††					1.6	3.15 ††	3.95 ††	4 ††
L018	15A1	10.1	15.9	3.17	6.16	5.3	15	2.84	2.55	2.1	4.6	6.4	6.4
L022	15A1	10.8	15.4	3.19	6.3	5.24	13	2.92	2.54	1.85	4.48	6.43	6.38
L023	15A1	11.7 †	17.4	3.44	6.62	5.8	15	3.2 †	3.1	2.14	5.17	6.97	6.83
L027	15A1	9.99	14.4	3	5.9	4.69	14.9	2.79	2.71	4.8 ††	2.2 ††	7	7
L028	15A1	10.4	17	3.55	6.3	5.82	14.3	3.14 †	2.82	7.86 ††	15.4 ††	20.5 ††	23.9 ††
L029	15A1	0.25 ††	0.37 ††	0.10 ††	0.16 ††					1.67	4.29	5.71	6.4
L032	15A1	9.69	14.6	3	5.9	5.1	14.7	2.89	2.7	1.85	4.33	5.79	5.77
L036	15A1	10.2	14.4	2.66	5.38	5.29	14.4	2.9	2.61	1.87	4.73	6.32	6.39
L044	15A1	11.6	16.6	3.73	7.3	6.34	16.3	3.53 ††	2.87	1.91	4.33	5.97	6.39
L045	15A1	9.03	12.7	3.25	5.29	4.92	10.8 ††	2.85	1.87 ††	1.8	3.8	4 †	2 ††
L063	15A1	9.9	14	2.9	6.6	5.5	14	2.9	2.7	2	4.6	6.6	6.6
L064	15A1	13 ††	20.9 ††	3.46	6.56	5.3	16.9 ††	2.74	2.35	2.11	5.02	6.64	8.42 †
L123	15A1					2.5 ††	13	2.8	2.3	2.6 †	4.7	5.9	6.8
L132	15A1	9.74	14.8	3.09	5.86	5.22	14	2.87	2.51	1.97	4.86	5.84	7.36
L133	15A1	15.7 ††	15.8	3.03	5.7	4.56	14.4	2.75	2.615	0.52 ††	4.69	5.5	6.05

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable Mg - 1M NH4Cl extract (15A1) cmol+/kg											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	15A1	3.81	3.18	3.11	1.54	1.2 ††	4.5	1.3	0.74	1.17	1.24	5.2	2.54
L003	15A1									1.15	1.15	4.98	2.55
L010	15A1					1.01	3.85	1.26	0.71	1.19	1.16	5.03	2.51
L011	15A1									1.43 ††	1.62 ††	6.37 ††	3.39 ††
L014	15A1	5.5 ††	8 ††	6.3 ††	2.3 ††					1.05	1.1	3.2 ††	1.56 ††
L018	15A1	3.47	3.59	3.23	1.66	1.05	4.18	1.29	0.74	1.2	1.1	4.9	2.4
L022	15A1	3.5	3.56	3.28	1.62	0.99	3.78	1.26	0.73	1.11	1.12	4.74	2.41
L023	15A1	3.91	3.88	3.55	1.76	1.1	4.2	1.4	0.85	1.19	1.16	5.2	2.55
L027	15A1	3.45	3.3	3	1.5	1.01	4.02	1.27	0.787	1.2	1.2	5	2.5
L028	15A1	3.42	3.64	3.4	1.63	0.93	3.92	1.25	0.69	4.52 ††	3.97 ††	15.7 ††	9.35 ††
L029	15A1	0.19 ††	0.21 ††	0.18 ††	0.07 ††					1.34	1.34 ††	3.71 ††	2.19 †
L032	15A1	3.35	3.48	3.2	1.59	1	3.88	1.31	0.77	1.09	1.14	4.73	2.46
L036	15A1	3.39	3.23	3.06	1.48	0.98	3.94	1.25	0.72	1.07	1.13	4.82	2.39
L044	15A1	3.68	3.58	3.58	1.81	1.1	4.42	1.38	0.75	1	1.02	4.04 †	2.12 ††
L045	15A1	3.16	3.02	3.24	1.43	0.97	3.49	1.27	0.46 ††	1.1	0.97 ††	4.7	2.3
L063	15A1	3.1	3	2.9	1.7	1	3.7	1.2	0.65	1.2	1.1	4.9	2.5
L064	15A1	3.22	3.58	2.88	1.76	1.07	3.99	1.19	0.73	1.15	1.17	4.55	2.38
L123	15A1					1.3 ††	3.6	1.2	0.8	1.4 †	1.2	4.8	2.5
L132	15A1	3.28	3.31	3.13	1.54	0.96	3.68	1.23	0.66	1.1	1.16	4.67	2.58
L133	15A1	3.2	3.05	2.96	1.4	0.88	3.45	1.16	0.68	0.25 ††	1.18	4.62	2.51



Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable Na - 1M NH4Cl extract (15A1) cmol+/kg											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	15A1	0.22 ††	0.78 ††	0.3	1.14 ††	0.1	1.38	0.04	0.21	0	0.045	0.14	0.288
L003	15A1									0.133 ††	0.366 ††	0.657	0.38
L010	15A1					0.23	1.48	0.24 ††	0.38	0.032	0.037	0.203	0.177
L011	15A1									0.034	0.026	0.28	0.2
L014	15A1	0.86 ††	0.46 ††	0.45	0.63 ††					0.52 ††	0.63 ††	0.87 ††	0.67 ††
L018	15A1	0.034	0.135	0.362	0.024	0.18	1.52	0.12	0.26	0.01	0.04	0.48	0.28
L022	15A1	0.089	0.139	0.37	0.046	0.162	1.54	0.135	58 ††	0.02	0.084	0.368	0.245
L023	15A1		0.14	0.4		0.16	1.7	0.14	0.31			0.415	0.28
L027	15A1	0.035	0.1	0.3	0	0.092	1.63	0.132	0.358	0.1 ††	0.02	0.5	0.4
L028	15A1	0.012	0.095	0.34	0.012	0.064	1.51	0.149	0.27	0.029	0.204 †	1.22 ††	0.828 ††
L029	15A1									0.66 ††	0.71 ††	0.91 ††	0.8 ††
L032	15A1	0.037	0.126	0.349	0.014	0.136	1.6	0.122	0.258	0.009	0.063	0.374	0.248
L036	15A1	0.04	0.129	0.327	0.023	0.158	1.53	0.136	0.236	0.013	0.075	0.382	0.251
L044	15A1	0.045	0.149	0.388	0.089	0.197	1.54	1.42 ††	0.314	0.001	0.006	0.32	0.193
L045	15A1	0.3 ††	0.09	0.2	0.03	0.1	0.65 ††	0.08	0.06 ††	0.015	0.06	0.28	0.18
L063	15A1	0	0.1	0.3	0	0.15	1.6	0.1	0.3	0	0.1	0.4	0.3
L064	15A1	0.062	0.122	0.274	0.059	0.199	1.49	0.166	0.234	0.046	0.098	0.327	0.224
L108	15A1	0.113 †	0.187	0.445	0.068								
L123	15A1					0.2	1.3	0.1	0.3	0.1 ††	0.2 †	0.5	0.4
L132	15A1	0.05	0.14	0.36	0.03	0.182	1.61	0.128	0.243	0.01	0.089	0.357	0.265
L133	15A1	0.025	0.062	0.169	0.008	0.079	0.78 ††	0.063	0.127	0.008	0.078	0.464	0.292

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable K - 1M NH4Cl extract (15A1) cmol+/kg											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L001	15A1					1	1	0.19	0.38	0.255	0.766	0.869	0.342
L003	15A1									0.171 †	0.573 †	0.602 †	0.247 ††
L010	15A1					0.86	0.81	0.18	0.34	0.263	0.698	0.774	0.338
L011	15A1									0.22	0.78	0.78	0.33
L014	15A1	0.63 ††	0.91	0.43 ††	0.83					0.12 ††	0.42 ††	0.41 ††	0.2 ††
L018	15A1	0.285	0.797	0.281	1.07	0.85	0.84	0.2	0.36	0.26	0.81	0.85	0.35
L022	15A1	0.31	0.754	0.288	1.073	0.9	0.86	0.2	0.35	0.251	0.801	0.831	0.322
L023	15A1	0.33	0.91	0.32	1.26	0.94	0.91	0.21	0.42	0.32 †	0.82	0.97	0.45 ††
L027	15A1	0.287	0.667	0.262	0.928	0.826	0.83	0.21	0.429	0.9 ††	0.3 ††	0.9	0.4 †
L028	15A1	0.28	0.85	0.3	1.13	0.83	0.85	0.23	0.4	0.9 ††	2.48 ††	2.7 ††	1.12 ††
L029	15A1	0.02 ††	0.122 ††	0.015 ††	0.059 ††					0.24	0.71	0.71	0.29
L032	15A1	0.515 ††	1.42 ††	0.497 ††	2.1 ††	0.901	0.897	0.234	0.4	0.253	0.874	0.935	0.349
L036	15A1	0.356 ††	0.87	0.319	1.07	0.927	0.955	0.223	0.39	0.254	0.856	0.877	0.352
L044	15A1	0.308	0.704	0.249	1.06	0.814	0.779	0.165	0.314	0.269	0.742	0.791	0.334
L045	15A1	0.24 ††	0.64	0.27	0.83	0.73	0.76	0.18	0.25	0.22	0.69	0.78	0.3
L063	15A1	0.3	0.8	0.3	1	0.9	0.8	0.2	0.4	0.3	0.8	0.9	0.4 †
L064	15A1	0.298	0.637	0.269	1.16	0.726	0.728	0.254	0.336	0.277	0.803	0.818	0.318
L108	15A1	0.296	0.774	0.287	1.1								
L123	15A1					0.2 ††	0.9	0.2	0.3	0.3	0.8	0.5 ††	0.3
L132	15A1	0.3	0.81	0.29	1.05	0.773	0.766	0.213	0.347	0.244	0.764	0.804	0.345
L133	15A1	0.295	0.833	0.208 †	0.861	0.861	1.13 ††	0.304 ††	0.421	0.033 ††	0.69	0.813	0.321

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable Ca - 1M NH4OAc extract (15D3) cmol+/kg											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	15D3	10.6	16.2	3.35	6.88 †	2.47 ††	7.41 ††	1.5 ††	1.37 ††	4.6 ††	14 ††	2.72 ††	2.45 ††
L009	15D3	10.3	15.8	2.76	5.48	4.89	13.6	2.86	2.4	2.25	4.56	6.23	6.4
L011	15D3	10.8	16	3.5	6.4	5.18	13.9	3.13	2.74	2.08	4.93	6.48	7.21
L013	15D3	11.3	16.6	3.2	6.3	5.4	13.2	3.1	2.3	1.7	4.8	6.6	6.5
L019	15D3	11.1	16.7	2.73	6.12	5.99	13.12	3.24	2.61	2.01	5.03	6.84	6.98
L026	15D3	11.1	16.6	3.5	6.7	4.89	13.9	2.98	2.78	2	4.73	6.21	6.94
L030	15D3	10	14.3	3.14	6	4.7	12.5	2.85	2.73	1.84	4.4	5.92	6.54
L040	15D3	10.3	14.9	3	5.7	4.75	14.2	2.86	2.67	2.11	5.06	6.24	7.19
L042	15D3	11.1	15.8	3.36	5.86	4.93	14.9	3.02	2.82	1.94	5.1	6.8	5.63
L055	15D3	10.4	15.4	2.83	5.93	4.59	13.2	2.82	2.48	1.93	4.57	5.83	6.42
L060	15D3	10.2	14.5	2.97	5.8	4.43	13.4	2.8	2.6	1.96	4.65	6.19	7.18
L080	15D3	7.51 ††	11.5 ††	2.39	0.33 ††	3.77	13.8	2.33	1.90 †	1.69	4.54	5.96	7.0
L084	15D3	9.96	14.7	2.98	5.83	4.24	14.2	2.66	2.46	1.84	4.21	5.45	6.16
L100	15D3	10.3	15.1	2.8	5.75	4.33	13.4	2.6	2.4	1.68	4.2	5.33	6.25
L123	15D3	10	15	2.7	5.4								
L139	15D3									2.65 ††	5.04	6.81	7.16

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable Mg - 1M NH4OAc extract (15D3) cmol+/kg											
		<i>December 2005 (Round 205)</i>			<i>March 2006 (Round 405)</i>					<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	15D3	3.22	2.84	3.29	1.43	0.54 ††	2.14 ††	0.69 ††	0.32 ††	1.03	4.08 ††	1.32 †	0.77 ††
L009	15D3	2.87	3.25	2.76	1.36	0.93	3.58	1.18	0.63	1.01	1.08	4.65	2.37
L011	15D3	3.4	3.3	2.8	1.6	1.11	3.72	1.33	0.75	1.13	1.16	4.8	2.5
L013	15D3	3.23	3.11	2.95	1.48	1.1	3.83	1.23	0.71	0.98	1.21	4.73	2.37
L019	15D3	3.46	3.39	3.05	1.54	1.07	4.17	1.38	0.74	1.14	1.19	4.89	2.54
L026	15D3	3.69	3.67	3.59 ††	1.77	0.96	3.71	1.27	0.73	1.09	1.1	4.68	2.42
L030	15D3	3.36	3.41	2.99	1.6	1.06	3.91	1.27	0.76	1.03	1.12	4.46	2.37
L040	15D3	3.4	3.3	3.3	1.5	1.01	3.81	1.32	0.78	1.11	1.1	4.74	2.41
L042	15D3	3.49	3.35	3.1	1.48	0.98	3.96	1.24	0.72	1.02	1.07	4.4	2.32
L055	15D3	3.57	3.69	3.16	1.69	0.85	3.81	1.17	0.63	1.14	1.17	4.93	2.59
L060	15D3	3.29	3.26	3.12	1.51	0.94	3.7	1.19	0.71	0.98	1.08	4.4	2.37
L080	15D3	2.98	2.85	2.75	1.58	1.46 ††	4.03	1.93 ††	1.47 ††	1.34 ††	1.56 ††	4.78	2.79
L084	15D3	3.12	3.03	2.87	1.45	0.89	3.65	1.14	0.66	1.05	1.05	4.31	2.26
L100	15D3	3.12	3.06	2.86	1.37	0.86	3.79	1.16	0.64	0.91	0.9	4.44	2.26
L123	15D3	3.2	3.1	2.9	1.5								
L139	15D3									1.43 ††	1.3	4.75	2.63

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable Na - 1M NH4OAc extract (15D3) cmol+/kg											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	15D3	0.059	0.176	0.425	0.042	0.115	0.808 ††	0.101	0.165	0.178 ††	1.55 ††	0.155 ††	0.277
L009	15D3	0.117	0.18	0.388	0.064	0.238	1.51	0.188	0.27	0.1	0.172	0.434	0.341
L011	15D3	0.03	0.11	0.31	0.004	0.133	1.37	0.139	0.363	0.025	0.013	0.32	0.14 ††
L013	15D3	0.06	0.18	0.37	0.06	0.19	1.65	0.16	0.3	0.03	0.1	0.42	0.26
L019	15D3	0.03	0.13	0.36	0.02	0.21	1.66	0.2	0.28	0.09	0.13	0.43	0.3
L026	15D3	0.045	0.158	0.45	0.03	0.167	1.55	0.136	0.278	0.009	0.075	0.401	0.273
L030	15D3	0.076	0.158	0.398	0.059	0.196	1.43	0.177	0.308	0.045	0.098	0.414	0.289
L040	15D3	0.066	0.202	0.402	0.046	0.223	1.55	0.176	0.31	0.035	0.088	0.368	0.265
L042	15D3	0.04	0.12	0.35	0.02	0.16	1.57	0.13	0.26	0.01	0.07	0.35	0.24
L055	15D3	0.041	0.131	0.395	0.024	0.122	1.41	0.107	0.213	0	0.06	0.362	0.249
L060	15D3	0.036	0.119	0.354	0.023	0.152	1.46	0.122	0.253	0.009	0.061	0.34	0.23
L080	15D3	0.061	0.151	0.362	0.055	0.202	1.202	0.141	0.217	0.07	0.132	0.362	0.276
L084	15D3	0.046	0.14	0.351	0.033	0.164	1.545	0.14	0.259	0.015	0.083	0.359	0.246
L100	15D3	0.194 ††	0.359 ††	0.599 ††	0.152 ††	0.237	1.25	0.204	0.311	0.03	0.136	0.401	0.312
L123	15D3	0.1	0.2	0.4	0.1								
L137	15D3	0.123	0.338 ††	0.458	0.235 ††					0.228 ††	0.608 ††	1.36 ††	0.413 ††
L139	15D3									0.27 ††	0.3 ††	0.65 ††	0.44 ††

Lab. Code #	Method Codes	Soil sample identification and values for											
		2005-06 Exchangeable K - 1M NH4OAc extract (15D3) cmol+/kg											
		<i>December 2005 (Round 205)</i>				<i>March 2006 (Round 405)</i>				<i>May 2006 (Round 605)</i>			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	15D3	0.287	0.844	0.257	1.13	0.431 ††	0.436 ††	0.117 ††	0.195	0.866 ††	0.875	0.253 ††	0.364
L009	15D3	0.259	0.687	0.262	0.885 †	0.809	0.212 ††	0.221	0.307	0.283	0.787	0.885	0.385
L011	15D3	0.3	0.74	0.29	1	0.741	0.677	0.164	0.285	0.17 ††	0.92	0.98	0.32
L013	15D3	0.31	0.79	0.3	1.1	0.97	0.8	0.25	0.41	0.27	0.84	0.94	0.39
L019	15D3	0.28	0.76	0.27	1.03	0.91	0.84	0.21	0.37	0.33 ††	0.88	0.89	0.42
L026	15D3	0.341	0.923 ††	0.342	1.3 ††	0.89	0.83	0.218	0.388	0.277	0.839	0.888	0.375
L030	15D3	0.307	0.8	0.303	1.12	0.91	0.952	0.235	0.415	0.26	0.802	0.866	0.361
L040	15D3	0.34	0.74	0.3	0.92	0.775	0.851	0.216	0.352	0.28	0.749	0.788	0.375
L042	15D3	0.29	0.78	0.29	1.1	0.84	0.78	0.2	0.28	0.28	0.86	0.87	0.38
L055	15D3	0.273	0.74	0.256	1.06	0.715	0.763	0.18	0.307	0.248	0.794	0.825	0.338
L060	15D3	0.287	0.765	0.277	1.08	0.855	0.825	0.206	0.361	0.246	0.782	0.81	0.34
L080	15D3	0.235	0.659 †	0.237	0.953	0.722	0.703	0.157	0.272	0.227	0.78	0.781	0.337
L084	15D3	0.281	0.76	0.272	1.07	0.844	0.818	0.207	0.357	0.265	0.787	0.814	0.341
L100	15D3	0.317	0.085 ††	0.314	1.04	0.751	0.73	0.2	0.317	0.263	0.577 ††	0.75	0.332
L123	15D3	0.3	0.8	0.3	1.6 ††								
L137	15D3	0.277	0.746	0.277	1.08					0.268	0.818	0.852	0.351
L139	15D3									0.33 ††	0.82	0.95	0.41

Lab. Code #	Method Codes	Exchangeable Al - 1M KCl (15G1) cmol+/kg											
		December 2005 (Round 205)				March 2006 (Round 405)				May 2006 (Round 605)			
		ASS 121	ASS 122	ASS 123	ASS 124	ASS 31	ASS 32	ASS 33	ASS 34	ASS 51	ASS 52	ASS 53	ASS 54
L006	15G1	0.07 ††	0.08	0.23	0.06 †	0.77	0.09 ††	0.31	0.13	0.80 ††	0.12 ††	0.98 ††	0.15 ††
L009	15G1	0.00	6.65 ††	4.58 ††	0.88 ††	11.7 ††	0.00	3.88 ††	1.9 ††	1.73 ††	0.54 ††	4.1 ††	0.45 ††
L011	15G1	0.06 ††	0.17 ††	0.27	0.08 †	0.67	0.06 ††	0.25	0.14	0.18 †	0.05 †	0.23	0.08 †
L013	15G1									0.55 ††	0.2 ††	0.75 ††	0.05
L019	15G1	0.01	0.01	0.16	0.02	0.08 ††	0.01	0.04	0.03	0.11	0.01	0.33 †	0.04
L022	15G1	0.03	0.05	0.22	0.02	0.64	0.02	0.28	0.11	0.05	0.02	0.15	0.01
L023	15G1		0.02	0.26	0.02								
L026	15G1	0.01	0.06	0.28	0.05	0.71	0.08 ††	0.32	0.15	0.26 ††	0.02	0.22	0.06
L029	15G1	0.09 ††	0.12 †	0.49 ††	0.16 ††					0.01	0.01	0.14	0.05
L030	15G1	0.00	0.01	0.21	0.01	0.68	0.01	0.24	0.09	0.06	0.03	0.17	0.02
L032	15G1	0.00	0.02	0.17	0.00					0.05	0.00	0.16	0.00
L036	15G1	0.00	0.02	0.20	0.01	0.13 ††	0.01	0.05	0.02	0.05	0.01	0.15	0.00
L040	15G1	0.05 †	0.06	0.20	0.07 †	0.58	0.03 †	0.18	0.06	0.07	0.04	0.16	0.02
L042	15G1	0.00	0.00	0.31	0.00	0.51	0.00	0.18	0.07	0.00	0.00	0.14	0.00
L044	15G1	0.05 †	0.07	0.23	0.04								
L045	15G1									0.02	0.02	0.08	0.02
L055	15G1	0.16 ††	0.06	0.14	0.02								
L060	15G1					0.60	0.00	0.22	0.08				
L064	15G1	0.00	0.00	0.20	0.00	0.61	0.01	0.21	0.13	0.04	0.01	0.12	0.01
L092	15G1	0	0	0 †	0								
L123	15G1	0.2 ††	0.2 ††	0.6 ††	0.2 ††	0.1 ††	0.1 ††	0.1	0.1	0.02	0.01	0.08	0.01
L132	15G1	0.03	0.01	0.20	0.00	0.62	0.00	0.25	0.08	0.05	0.01	0.15	0.00
L133	15G1	0.01	0.01	0.12	0.01	0.57	0.01	0.14	0.08	0.01	0.00	0.04	0.01
L137	15G1									0	0	0.04	0
L139	15G1									0.15	0.08 ††	0.19	0.07