Geochronological analysis of the McArthur and Tawallah Groups, McArthur Basin: age constraints, provenance and implications for basin evolution

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GEOCHRONOLOGICAL ANALYSIS OF THE MCARTHUR AND TAWALLAH GROUPS, MCARTHUR BASIN: AGE CONSTRAINTS, PROVENANCE AND IMPLICATION FOR BASIN EVOLUTION

GEOCHRONOLOGICAL CONSTRAINTS OF THE MCARTHUR AND TAWALLAH GROUPS

ABSTRACT

The informally termed greater McArthur Basin records nearly a billion years of Earth's history in the Northern Territory. The basin comprises of sedimentary successions that includes evidence of their provenance, age constraints and implications on how the basin evolve through time. Although several previous studies have looked at the age and deposition of the upper Glyde Package, very little is known for the lower Glyde and upper Redbank Packages. By using LA-ICP-MS detrital zircon U–Pb and rare earth element (REE) analyses, the maximum depositional age and age of major detrital input will be constrained. These ages will determine the provenance source and constrain the evolution of the basin. Using the youngest, near-concordant, zircon grain from sandstones, the maximum depositional age of the target formation is established. The following maximum depositional age constraint have been obtained from this study: Mallapunyah Formation (1740 ± 28 Ma), Masterton Sandstone (1709 ± 28 Ma), Wollogorang Formation (1746 ± 29 Ma), Wuraliwuntya Member (1745 ± 38 Ma), and Wununmantyala Sandstone (1712 ± 39 Ma). REE suggests that the samples grew in a garnet and plagioclase bearing melt. Provenance shows that the main source of sediments is coming from the Aileron Province. Magmatic and orogenic event of the Aileron Province is coeval with the Stafford (ca. 1810 to 1800 Ma), Yambah (ca. 1790 to 1770 Ma), and Strangways (ca. 1740 to 1690 Ma) Events. This is believed to be the product of a long-lived subduction zone in the southern margin of the North Australian Craton.

KEYWORDS

Geochronology, McArthur Group, Tawallah Group, McArthur Basin, North Australian Craton

TABLE OF CONTENTS

LIST OF FIGURES AND TABLES

INTRODUCTION

A series of 'intracratonic' volcano-sedimentary basins formed in the Proterozoic throughout the North Australian Craton (Betts & Giles, 2006). These basins record several hundreds of million years-worth of sedimentary and volcanic sequences. These sequences can be used to help work out the complex evolution of their sedimentary systems; the provenance, sediment pathways, and from this, the tectonic evolution of the sediment hinterland.

One of the better known North Australian Craton basins is the Palaeoproterozoic to Mesoproterozoic McArthur Basin *sensu stricto* (Figure 1), which covers a major portion of the Northern Territory with approximately 5 to 15 km-thick un-metamorphosed sedimentary and lesser volcanic rock layers (Rawlings, 1999). The informally termed greater McArthur Basin (Close, 2014) extends the original basin area to include sedimentary successions from the McArthur Basin, Birrindudu Basin and the Tomkinson Province. This covers nearly a billion years of Earth's history from 1.82 to 0.9 Ga (Ahmad & Munson, 2013; Munson, 2016; Munson, 2019; Rawlings, 1999; Yang et al., 2018) and it comprises five Palaeoproterozoic to Neoproterozoic sedimentary packages; the Redbank, Goyder, Glyde, Favenc, and Wilton Packages (Rawlings, 1999). The Tawallah and McArthur Groups (Rawlings, 1999) from the Redbank and Glyde Packages, respectively, form the subject of this study. These are chosen because there is a gap in our knowledge about these groups, and they are the units present in the drill core samples.

By using detrital zircons, the maximum depositional age, ages of major detrital input, and subsequently, the provenance of the original sands in the McArthur Basin can assist to work out the evolution of the basin. Here we report the U–Pb age and Rare Earth

Element (REE) chemistry of the detrital zircons in sandstones and minor volcanic units within the lower McArthur and Tawallah Groups to address the origin, age and tectonic setting of the North Australian Craton (NAC) at this time.

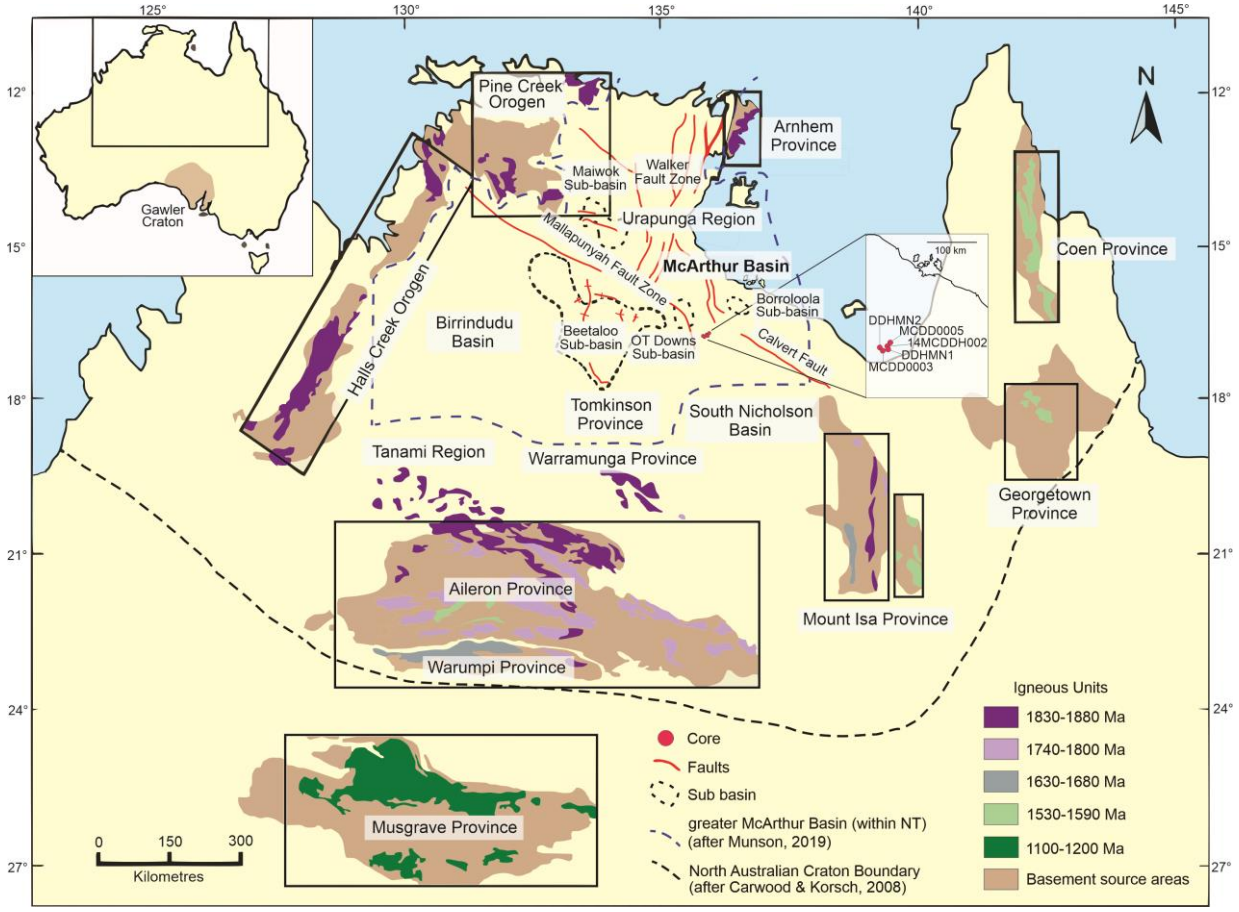

Figure 1: Map showing the location of drill holes used in this study, boundary of the greater McArthur Basin, and the surrounding regions within the North Australian Craton boundary (modified after Yang et al., 2018).

Based on ages from grains of zircon, the maximum depositional age for associated units are established. In addition, the spread of data is compared to existing data from other studies to determine possible source areas from the hinterland of the basin. These age provenance profiles are then compared with Rare Earth Elements (REE) patterns. This will be an additional geochemical fingerprint for the zircon to refine sediment and understand the petrogenesis of the source regions. The combined data are then used to

build a picture of the sedimentary system history for the lower succession of the McArthur Basin. Stratigraphic changes in provenance will be used to try and understand the tectonic evolution of the source regions.

BACKGROUND AND GEOLOGICAL SETTINGS

Proterozoic North Australian Craton

The North Australian Craton (NAC) is predominantly made of Archaean to Palaeoproterozoic rocks that are highly metamorphosed and deformed. These comprises the basement to the greater McArthur Basin (Munson, 2019). Yang et al. (2019) suggested that the West Australian Craton (WAC) collided with the North Australian Craton (NAC), which at the time was amalgamated with the South Australian Craton (SAC: Cawood & Korsch, 2008), at about ca. 1.4 to 1.3 Ga. Prior to this time, a combination of slab rollback and back stepping of a subduction system behind accreted continental terranes resulted the southward migration of plate margin. This is thought to have led to the Palaeoproterozoic to Mesoproterozoic extension of the North Australian Craton (Betts & Giles, 2006). In addition, arc magmatism was also prominent during early development of the NAC (Cawood & Korsch, 2008). At about the same time, in the late Palaeoproterozoic, divergence and exhumation along the eastern NAC was occurring as a result of lithospheric extension associated with the rifting of Proterozoic Australia and Laurentia in Nuna (Foster & Ehlers, 1998; Yang et al., 2019). This eventually led to formation of series of basins and sedimentary units along the eastern boundary of North Australian Craton including the Leichhardt, Calvert, and Isa Superbasins (Jackson et al., 2000; Cawood & Korsch, 2008).

Greater McArthur Basin

The informally termed greater McArthur Basin (Close, 2014) is a Palaeoproterozoic to Mesoproterozoic basin. It includes the sedimentary succession of the 'McArthur basin' itself, which is exposed over an area of 180 000 km^2 in the eastern margin of the NAC (Figure 1: Ahmad & Munson, 2013). In addition, it also includes the Tomkinson Province and the Birrindudu Basin (Figure 1). The basin is a product of series of intracratonic rifting events that occurred approximately ca. 1750 to 1710 Ma and ca. 1640 to 1600 Ma (Myers, Shaw, & Tyler, 1996). The greater McArthur Basin is subdivided into five stratigraphic sedimentary packages. These packages were formerly known as supersequences, and are now classified as: the Redbank, Goyder, Glyde, Favenc, and Wilton Packages (Rawlings, 1999). The greater McArthur Basin unconformably overlies the NAC as an intracontinental basin. The three basal stratigraphic sequences are the Redbank (ca. 1815 to 1710 Ma), Goyder (ca. 1710 to 1670 Ma), and Glyde (ca. 1640 to 1600 Ma) Packages (Rawlings, 1999). These packages are summarised by Ahmad and Munson (2013) as coeval units with the Mount Isa Province 'superbasins' from Jackson et al. (2000), which includes the Leichhardt (ca. 1800 to 1750 Ma), Calvert (ca. 1730 to 1670 Ma), and Isa (ca. 1668 to 1590 Ma) Superbasins. Thus, in the late Palaeoproterozoic, the region of the greater McArthur Basin was being extended from the rollback in the south and rifting in the east.

Redbank Package

The basal unit of the greater McArthur Basin is the Redbank Package. In the McArthur Basin *sensu stricto* this is represented by the Tawallah Group, which comprises shallow-marine to fluvial sandstone, with minor mudstone, dolostone, and mafic and felsic volcanic rocks, with both coeval and younger intrusive bodies (Ahmad &

Munson, 2013). The Tawallah Group unconformably overlies basement rocks of the Murphy Province and Scrutton Inlier (Ahmad & Wygralak, 1989; Pietsch et al., 1991). The Tawallah Group is correlated with the Katherine River Group in the subsurface to the north-western and south-western part of the basin (Ahmad & Munson, 2013). Similarly, it has been inferred that; Tomkinson Creek group of the Tomkinson Creek Province to the south (Figure 1), the Birrindudu, and possibly part of the Limbunya Groups of the Birrindudu Basin to the west (Figure 1), and the Haslingden Group of the Leichhardt Superbasin to the southeast are correlative sequences of the lower half of the Tawallah Group (Plumb & Wellman, 1987; Pietsch et al., 1994; Jackson et al., 2000). Geochronological results are documented in Page et. al. (2000), Page and Sweet (1998) and Rawlings (2002), these includes Sensitive High-Resolution Ion Microprobe (SHRIMP) ages. U-Pb zircon crystallisation ages for the Wollogorang Formation (ca. 1730 to 1725 Ma), Hobblechain Rhyolite and Packsaddle Microgranite (ca. 1725 Ma), Tanumbirini Rhyolite (ca. 1715 Ma) are reported. A maximum depositional age from a sandstone in Nyanantu Formation (ca. 1708 Ma) is also established.

The Redbank Package and Glyde Packages are separated throughout the McArthur Basin by a regional unconformity characterised by the Parsons Range Group (ca. 1710 to 1670 Ma) of the Goyder Package (Ahmad & Munson, 2013; Rawlings, 1999). These excludes the conformable and continuous Walker Fault Zone, Donydji and Balma Groups.

Glyde Package

The Glyde Package in the McArthur Basin *sensu stricto* is represented by the McArthur Group, which unconformably overlies the Tawallah Group. The McArthur Group comprises stromatolitic to evaporitic dolostone, with siliciclastic and minor tuffaceous

rocks (Rawlings, 1999). These were deposited in shallow to moderately deep marine and locally emergent environments, confined between the Batten and Walker fault zones (Ahmad & Munson, 2013; Winefield, 1999). Rawlings (1999) divided the group into two subgroups. The lower, Umbolooga Subgroup includes the basal Masterton Sandstone up to the Reward Dolostone. This is overlain by the Batten Subgroup, with a possible unconformity based on locally observed palaeoregolith above the Reward Dolostone (Ahmad & Munson, 2013). The age of basal units of the Umbolooga Subgroup are poorly constrained by the crystallisation age of the underlying Tanumbirini Rhyolite (1713 ± 7 Ma) within the Tawallah Group (Munson, 2019; Page & Sweet, 1998). The Masterton Sandstone has yielded a maximum depositional age of ca. 1755 Ma, which is thought not to well constrain its depositional age (Hollis et al., 2010; Kositcin et al., 2017; Munson, 2019). Nevertheless, a maximum depositional age of 1653 ± 17 Ma (Page et al., 2000; Munson, 2019) from the overlying Mallapunyah Formation provides a reasonable constraint on the depositional age of this formation. Surrounding the basin are other Palaeoproterozoic to Mesoproterozoic terrains that could be possible sources of sediment. Compilation of provenance interpretations for the source region of the younger Mesoproterozoic Wilton Package (McArthur Basin) from Munson (2016) and Yang et al. (2019), suggest potential source regions contain zircons with ages ranging from 2500 to 1700 Ma. In the proximal NAC and SAC, these includes the Tanami Region, Aileron Province, Mount Isa Province, Pine Creek Orogen, Halls Creek Orogen, Arnhem Province, Warramunga Province, Musgrave Province, Georgetown Province, Coen Province, and Gawler Craton (Figure 1).

METHODS

Group	Formation	Core ID	Sample No.	Depth (metres)		Coordinates (MGA94 Z53)
McArthur Group	Mallapunyah Formation	MCDD0005	SST-04	298.86	299.13	599179 (E), 8113578 (N)
		MCDD0005	SST-05	338.65	339.24	
	Masterton Sandstone	DDHMN2	SST-01	7.29	7.68	595950 (E), 8110475 (N)
		MCDD0005	SST-06	358.19	358.64	599179 (E), 8113578 (N)
		MCDD0005	SST-08	376.56	377.02	
		MCDD0005	SST-09	389.58	390.18	
		MCDD0005	SST-10	397.76	398.22	
		MCDD0005	SST-13	424.62	424.98	
		MCDD0005	SST-15	452.70	453.19	
Tawallah Group	Wollogorang Formation	14MCDDH002	SST-01	2.64	2.95	594575 (E), 8108475 (N)
		DDHMN1	SST-02	55.38	56.19	594225 (E), 8107980 (N)
		MCDD0005	SST-16	469.07	469.42	599179 (E), 8113578 (N)
	Wuraliwuntya Member	MCDD0003	SST-01	230.20	230.85	591370 (E), 8106448 (N)
	Wununmantyala Sandstone	MCDD0003	SST-06	363.58	364.07	
		MCDD0003	SST-12	510.45	511.09	

Table 1: Sample lists for U–Pb detrital zircon geochronology and REE analyses. Where possible samples were collected from the upper, middle and lower parts of each formation.

Sample Selection

Sandstone samples were collected from five drill cores shown in figure 2; MCDD0003 and MCDD0005 (Todd River Resources), 14MCDDH002, DDHMN1, and DDHMN2 (Northern Territory Geological Survey). All samples were stored in the NTGS Darwin Core Library, Northern Territory, Australia. The location and coordinate of the samples can be seen in Figure 1 and Table 1, respectively.

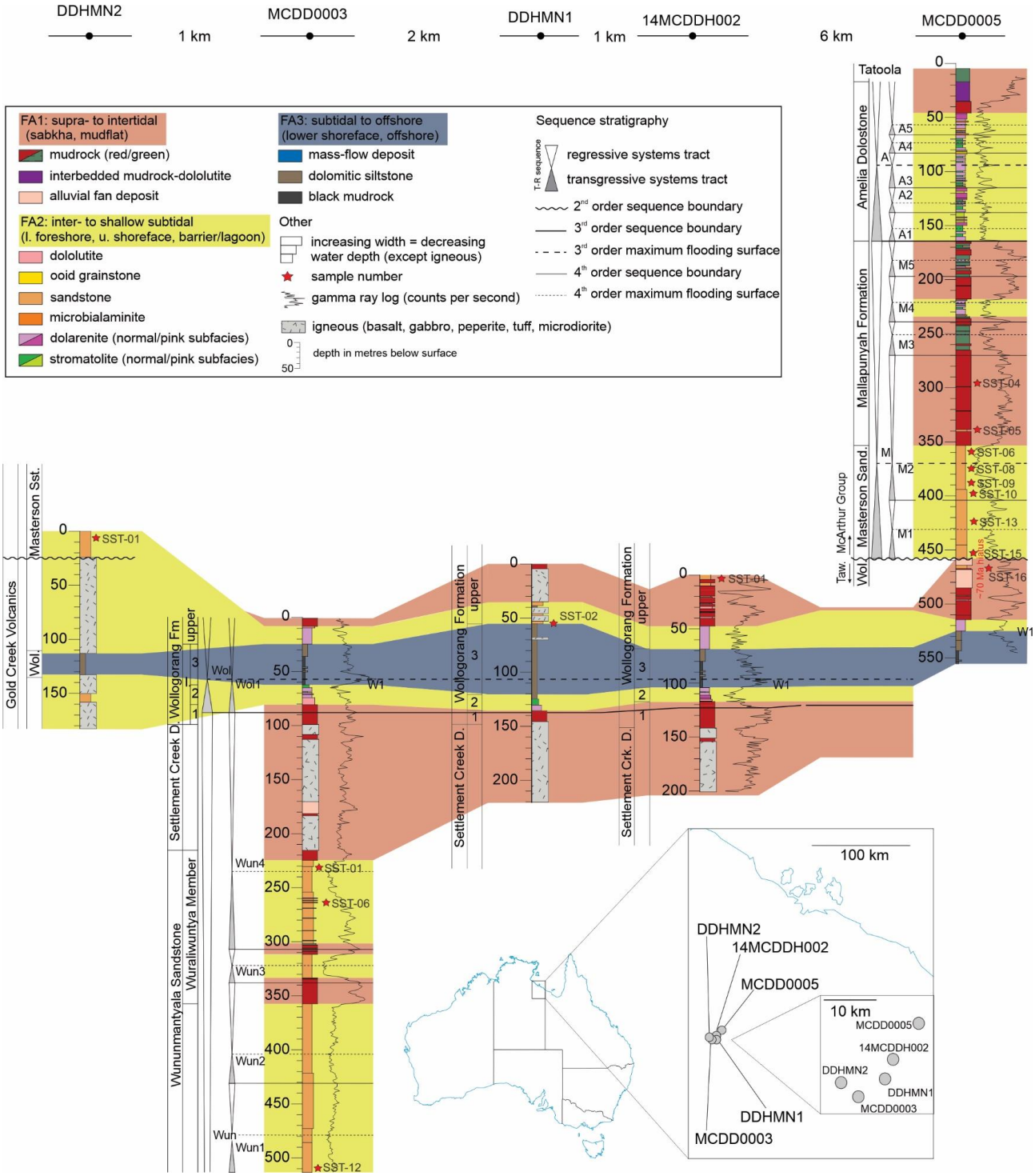

Figure 2: High resolution sequence stratigraphy cross-section (M. Kunzmann, personal communication, June 26, 2019) showing the five drill cores used in this study, and the samples collected from individual cores with their sample number. Different depositional environment at specific depth is represented by their assigned colour. Blow out diagram at the bottom right corner shows the spatial positioning of the drill cores in McArthur Basin, Northern Territory.

U-Pb Detrital Zircon Geochronology

In preparation for U-Pb geochronology, the samples were crushed, separated, and passed through a hand magnet, leaving only the fraction that included zircons. At least, three-hundred grains of zircons per-sample were handpicked and mounted in epoxy resin, without any physical characteristic preferences including size, colour, and shape. The mounts were polished, and carbon coated in preparation for imaging. Zircon grains were imaged in Adelaide Microscopy, The University of Adelaide, using cathodoluminescence (CL) on a FEI Quanta 600 Scanning Electron Microscope (SEM) with an attached Gatan CL detector to find zoning within the grains for future analysis. The ASI 213nm Nd-YAG laser coupled with an Agilent 7500cs Inductively Coupled Plasma Mass Spectrometer (ICP-MS) at Adelaide Microscopy, The University of Adelaide, was used to for zircon U–Pb isotope analysis. The cores of grains were specifically targeted with a 30 µm spot size laser. The laser operated with a frequency of 5Hz with 70% intensity and 30 seconds ablation period.

A GEMOC GJ-1 zircon was used as a primary standard to correct instrumental fractionation. This has a published, $^{207}Pb/^{206}Pb$ age of 607.7 ± 4.3 Ma, $^{206}Pb/^{238}U$ age of 600.7 ± 1.1 Ma and $^{207}Pb/^{235}U$ age of 602.0 ± 1.0 Ma (Jackson et al., 2004). To assess the analytical accuracy, a sample of Plešovice zircon was used as an internal standard, with a published $^{206}Pb/^{238}U$ age of 337.13 ± 0.37 Ma (Sláma et al., 2008). Plešovice analyses in this study yielded a weighted average mean slightly older than the published value. The results are calculated per analytical session and summarised in Table 2. The software package Iolite version 3.0 (Chew et al., 2014) was used for data processing. ISOPLOT 4.15 for excel (Ludwig, 2009) was used for generating the concordia diagram and weighted mean calculation. The ‘R’ software package was used to calculate

Multidimensional Scaling (MDS) plots and Kernel Density Estimates (KDE) (Vermeesch, 2013).

Analytical Session	$^{206}Pb/^{238}U$	$^{207}Pb/^{206}Pb$
1	338.9 ± 0.48 (n=60, MSWD=0.83)	331.5 ± 7.7 (n=60, MSWD=0.95)
2	340.7 ± 0.49 (n=58, MSWD=1.40)	331.6 ± 8.4 (n=58, MSWD=1.40)
3	339.7 ± 0.76 (n=28, MSWD=1.90)	316.8 ± 10 (n=28, MSWD=0.58)
4	342.3 ± 2.30 (n=5, MSWD=1.70)	318.0 ± 28 (n=5, MSWD=0.04)

Table 2: Weighted mean of Plešovice zircon $^{206}Pb/^{238}U$ and $^{207}Pb/^{206}Pb$ ages from this study. All data were taken in four different analytical session.

Zircon REE Analysis

Along with U-Pb zircon analysis, the abundance of 21 elemental masses were measured: ^{31}P, ^{49}Ti, ^{89}Y, ^{90}Zr, ^{139}La, ^{140}Ce, ^{141}Pr, ^{146}Nd, ^{147}Sm, ^{153}Eu, ^{157}Gd, ^{159}Tb, ^{163}Dy, ^{165}Ho, ^{166}Er, ^{169}Tm, ^{172}Yb, ^{175}Lu, ^{178}Hf, ^{202}Hg and ^{232}Th. Trace element data were collected simultaneously with U–Pb isotopic ratios and standardised with the primary standard NIST610, and secondary standard 91500. Results were normalised to chondrite values (Taylor & McLennan, 1985) and plotted in excel as spider plots to distinguish any variation in REE trends per formation.

OBSERVATIONS AND RESULTS

U-Pb Detrital Zircon Geochronology

U-Pb data were collected from 15 detrital samples (Table 1). These were imaged in cathodoluminescence (CL) (Figure 3). A concordance cut-off greater than 90% are plotted in Wetherill concordia plot along with its corresponding Kernel Density Estimate plot (Figure 4, 5, and 6). A compilation of Kernel Density Estimate (KDE) were also plotted to demonstrate variation stratigraphically (Figure 7). Figure 8 shows probability density plot, as per Eglington (2016), of the formation within the McArthur and Tawallah Groups. To represent the maximum depositional age of the samples, both the youngest zircon grain and the youngest population (n>3) have been quoted in Table 5. We interpret the maximum depositional age to be best represented by the youngest, statistically discrete, near-concordant grain (Spencer & Kirkland, 2016). Because of the antiquity of zircons, all ages quoted are from $^{207}Pb/^{206}Pb$ ages. Sandstone and minor volcanic samples are listed below in stratigraphic order, from the oldest to youngest formation based on Rawlings (1999) and Ahmad and Munson (2013). Majority of the detrital zircon grains vary in shape and size, with some that are; broken and fractured, contain inclusions, and possess complex zoning. A complete summary of the detrital zircon morphology within the formation are shown in Table 3. The maximum depositional ages and the peak detritus gets older with younger stratigraphic age (Table 5 and Figure 7).

WUNUNMANTYALA SANDSTONE

Sample: MCDD0003-SST-12

A total of 121 U-Pb and REE analyses were undertaken targeting mainly the core, if possible, along with several outer rim targets. Thirty-seven of the analyses are within the >90% concordance with a range of $^{207}Pb/^{206}Pb$ ages from ca. 2600 to 1712 Ma (Figure 6E). Summarised in Table 4 are the youngest single concordant grains and youngest population, 1712 ± 39 Ma and 1736 ± 13 Ma (n=5, MSWD=0.52), respectively. There is a major peak at ca. 1760 Ma along with three minor peaks at ca. 1850 Ma, 2100, and 2530 Ma (Figure 7E).

Sample: MCDD0003-SST-06

Fifty-eight spots were analysed with 16 concordant analyses, with $^{207}Pb/^{206}Pb$ ages ranging from ca. 2713 to 1730 Ma (Figure 6E). The youngest single concordant grain yielded 1730 ± 12 Ma, while the youngest population recorded 1833 ± 12 Ma (n=4, MSDW=0.02). The KDE plots show a major peak recorded at ca. 1830 Ma, along with one younger (ca. 1740 Ma) and three older (ca. 2050, 2450, and 2650 Ma) minor peaks (Figure 7E).

WURALIWUNTYA MEMBER

Sample: MCDD0003-SST-01

Out of 121 analyses, 35 sits within >90% concordance, with ranging $^{207}Pb/^{206}Pb$ ages of ca. 2657 to 1745 Ma (Figure 6D). One major peak at ca. 1850 Ma can be observed in the KDE plot along with two older (ca. 2000 and 2450 Ma) minor peaks (Figure 7D).

The youngest concordant grain recorded 1745 ± 38 Ma, and youngest population of 1751 ± 18 Ma (n=3, MSWD=0.14).

WOLLOGORANG FORMATION

Sample: MCDD0005-SST-16

Out of 134 analyses within MCDD0005-SST-16, 19 are classified >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging from ca. 2546 to 1746 Ma (Figure 5C). The youngest concordant grain is 1746 ± 29 Ma, with the youngest population of 1754 ± 10 Ma (n=5, MSWD=0.31). Major peak at ca. 1850 Ma can be observed in the KDE plot along with one minor peak at ca. 2000 Ma (Figure 7C).

Sample: DDHMN1-SST-02

Out of 102 analyses, 35 are >90% concordant and give a $^{207}Pb/^{206}Pb$ ages ranging from ca. 2526 to 1753 Ma (Figure 5C). The youngest concordant grain is 1753 ± 28 Ma, along with the youngest population of 1770 ± 9 Ma (n=12, MSWD=0.69). The KDE plot shows a major peak at ca. 1790 Ma and three older, minor peaks at ca. 1850, 2100, 2500 Ma (Figure 7C).

Sample: 14MCDDH002-SST-01

One hundred twenty-one analyses were undertaken, 23 of which are >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging from ca. 2880 to 1761 Ma (Figure 5C). The youngest concordant grain and population yielded 1761 ± 42 Ma and 1767 ± 24 Ma (n=3,

MSWD=0.16), respectively. There is a major peak at ca. 1800 Ma observed in the KDE plot and three minor peaks at ca. 2300, 2550, and 2900 Ma (Figure 7C).

MASTERTON SANDSTONE

Sample: MCDD0005-SST-15

Out of 121 analyses, 32 are >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging from ca. 2791 to 1740 Ma (Figure 5B). The youngest concordant grain and population gathered 1740 ± 21 Ma and 1754 ± 7 Ma (n=16, MSWD=0.54), respectively. The KDE plot shows major peak at ca. 1790 Ma, with two older (ca. 2000 and 2550 Ma), minor peaks (Figure 7B).

Sample: MCDD0005-SST-13

One hundred twenty-seven analyses were undertaken and 58 are >90% concordant. Analyses yield $^{207}Pb/^{206}Pb$ ages ranging from ca. 2821 to 1746 Ma (Figure 5B). The youngest concordant grain gave an age of 1746 ± 39 Ma, with youngest population of 1760 ± 19 Ma (n=5, MSWD=0.19). The KDE plots highlight a major peak at ca. 1800 Ma with two older (ca. 2000 and 2550 Ma), minor peaks (Figure 7B).

Sample: MCDD0005-SST-10

Two hundred fifty-seven analyses were collected from MCDD005-SST-10 and of these 125 analyses are >90% concordant. These data have $^{207}Pb/^{206}Pb$ ages ranging from ca. 3068 to 1716 Ma (Figure 5B). The youngest concordant grain and population yielded 1716 ± 48 Ma and 1734 ± 11 Ma (n=6, MSWD=0.21), respectively. The KDE plot shows major peak at ca. 1790 Ma with three older (ca. 1880, 2200, and 2500 Ma) minor peaks (Figure 7B).

Sample: MCDD0005-SST-09

Out of 267 analyses, 113 are >90% concordant within MCDD0005-SST-09 with $^{207}Pb/^{206}Pb$ ages ranging from ca. 2683 to 1709 Ma (Figure 4B). The youngest concordant grain and population yielded 1709 ± 28 Ma and 1730 ± 9 Ma (n=7, MSWD=0.52), respectively. KDE shows a major peak at ca. 1780 Ma with two older (ca. 1870 and 2500 Ma), minor peaks (Figure 7B).

Sample: MCDD0005-SST-08

Out of 159 analyses, 72 are >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging between ca. 2790 to 1714 Ma (Figure 4B). The youngest concordant grain and population yielded 1714 ± 45 Ma and 1732 ± 11 Ma (n=6, MSWD=0.36), respectively. Major peak at ca. 1780 Ma are highlighted in the KDE plot along with two older (ca. 1850 and 2450 Ma), minor peaks (Figure 7B).

Sample: MCDD0005-SST-06

Sixty-five analyses were undertaken, of these 29 of are >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging from ca. 2680 Ma to 1766 Ma (Figure 4B). The youngest concordant grain and population yielded 1766 ± 43 Ma and 1774 ± 14 Ma (n=8, MSWD=0.14), respectively. There is major peak at ca. 1800 Ma and two older (ca. 2300 and 2700 Ma), minor peaks shown in the KDE plot (Figure 7B).

Sample: DDHMN2-SST-01

Out of 72 analyses, DDHMN2-SST-01 have 24 analyses that are >90% concordant. The data have $^{207}Pb/^{206}Pb$ ages ranging from ca. 2864 to 1715 Ma (Figure 4B). The youngest concordant grain and population are 1715 ± 50 Ma and 1724 ± 26 Ma (n=3,

MSWD=0.11), respectively. KDE plot shows a major peak at ca. 1780 Ma and three older, minor peaks at ca. 2030, 2520, and 2700 Ma (Figure 7B).

MALLAPUNYAH FORMATION

Sample: MCDD0005-SST-05

Out of 112 analyses, 58 are >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging between 2886 to 1740 Ma (Figure 4A). The youngest concordant grain and population are 1740 ± 28 Ma and 1746 ± 15 Ma (n=3, MSWD=0.36), respectively. There is a major peak at ca. 1880 Ma with one younger (ca. 1780 Ma) and older (ca. 2550 Ma), minor peaks (Figure 7A).

Sample: MCDD0005-SST-04

Out of 22 analyses, 8 are >90% concordant with $^{207}Pb/^{206}Pb$ ages ranging between ca. 2557 to 1794 Ma (Figure 4A). The youngest concordant grain and population are 1794 ± 43 Ma and 1941 ± 18 Ma (n=5, MSWD=1.11), respectively. KDE plot shows a major peak at ca. 1930 Ma with one younger (ca. 1780 Ma) and two older (ca. 2200 and 2550 Ma), minor peaks (Figure 7A).

Formation	Zonation and Features	Aspect Ratio (height:width)
Mallapunyah Formation	Irregular shape with sub-rounded and minimal elongated grains. Contains inclusions. Heterogeneous composition in cores followed by complex and oscillatory zoning. Predominantly lighter colour. Relatively small grains ranging from 30 to 100 µm with few 200 µm grains.	**1.5:1**, 2:1, 3:1
Masterton Sandstone	Consistently rounded and elongated with abundant prismatic grains. Predominantly lighter in colour but shows alternating light and dark rims in significant number of grains. Homogeneous core composition followed by oscillatory zoning, with minor complex zoning in some of the samples. Relatively larger grains ranging from 50 to 300 µm.	1:1, 1.5:1, **2:1.5**, 3:1, 3.5:1.5
Wollogorang Formation	Sub-rounded and elongated shape. Abundant number of inclusions within heterogeneous core. Predominantly complex with minor oscillatory zonation. Darker in colour. Grains range from 30 to 200 µm.	1:0.5, 1:1, **1.5:1**, 2:1, 2.5:1
Wuraliwuntya Member	Relatively darker colour, with a prominent occurrence of alternating dark and light rims. Homogeneous core followed by mostly complex and minor oscillatory zonation. Rounded and slightly elongated grains. Consistently large grains ranging from 50 to 250 µm.	1:0.5, 1:1, **1.5:1**, 2:1
Wununmantyala Sandstone	Lighter colour with some alternating light and dark rims. Homogeneous core followed by oscillatory and few complex zonings. Sub-rounded and slightly elongated grains. Size varies from 30 to 200 µm.	**1:0.5**, 1:1, 1.5:1, 2:1, 2.5:1.5

Table 3: Zircon morphologies within the formation. Zoning and features within the grains are described along with the aspect ratios of the long (height) and short (width) axis of the zircon. Dominant ratio is in bold.

Figure 3: Cathodoluminescence (CL) images of the youngest, near-concordant, detrital zircon grain from the McArthur and Tawallah Groups with their analysis number and $^{207}Pb/^{206}Pb$ age values. Samples are from drill core (A.) MCDD0005, (B.) MCDD0003, (C.) 14MCDDH002, (D.) DDHMN1, and (E.) DDHMN2. U–Pb and REE analyses were taken simultaneously, marked by the red spot in the grains.

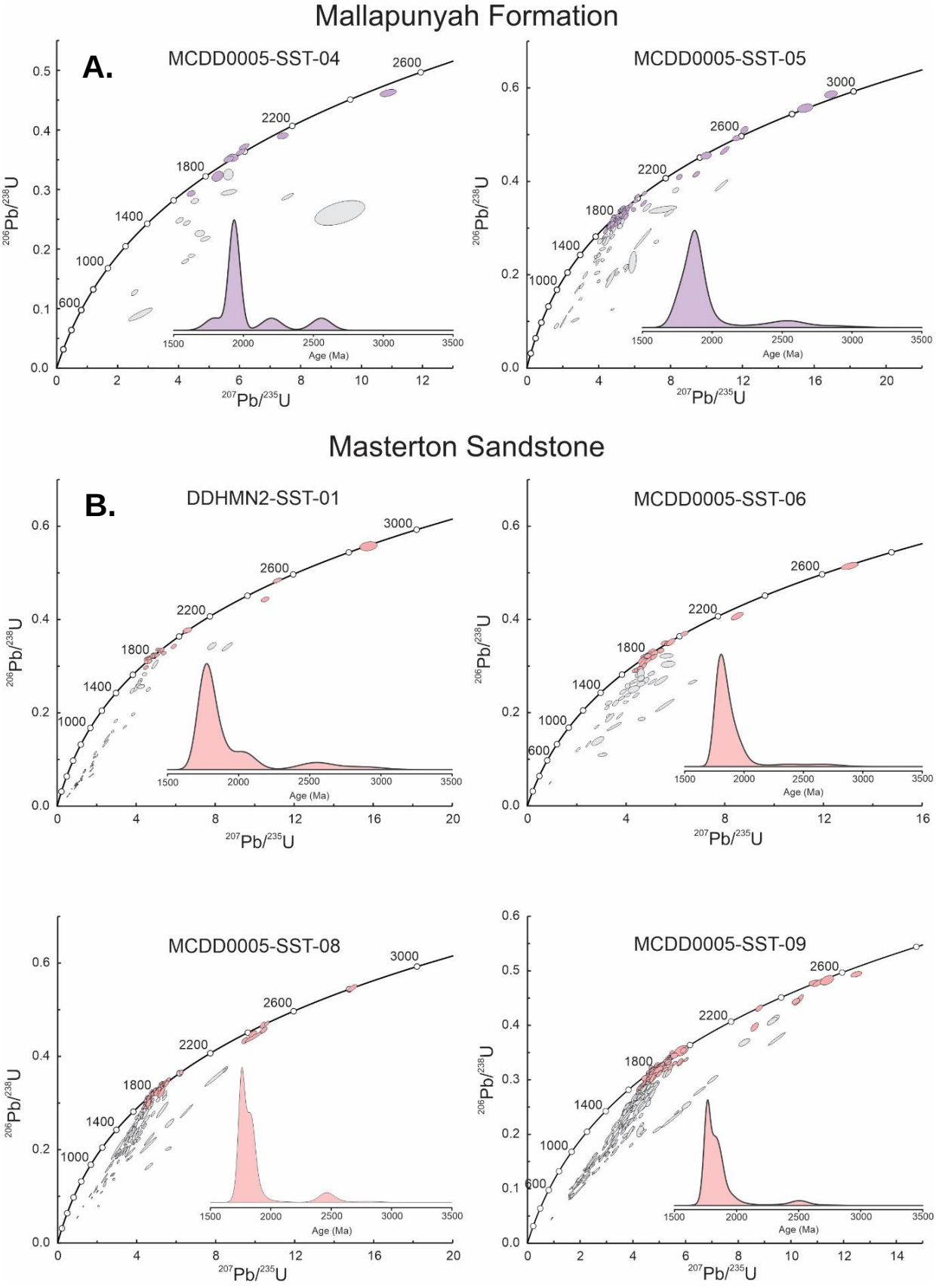

Figure 4: U-Pb Wetherill Concordia plots of samples from (A.) Mallapunyah Formation (MCDD0005) and (B.) Masterton Sandstone (DDHMN2 and MCDD0005). Coloured ellipses represent >90% concordant grains in contrast with grey, discordant grains. Kernel Density Estimate (KDE) plots from >90% concordant grains are also coloured accordingly, showing major and minor detrital zircon age peaks.

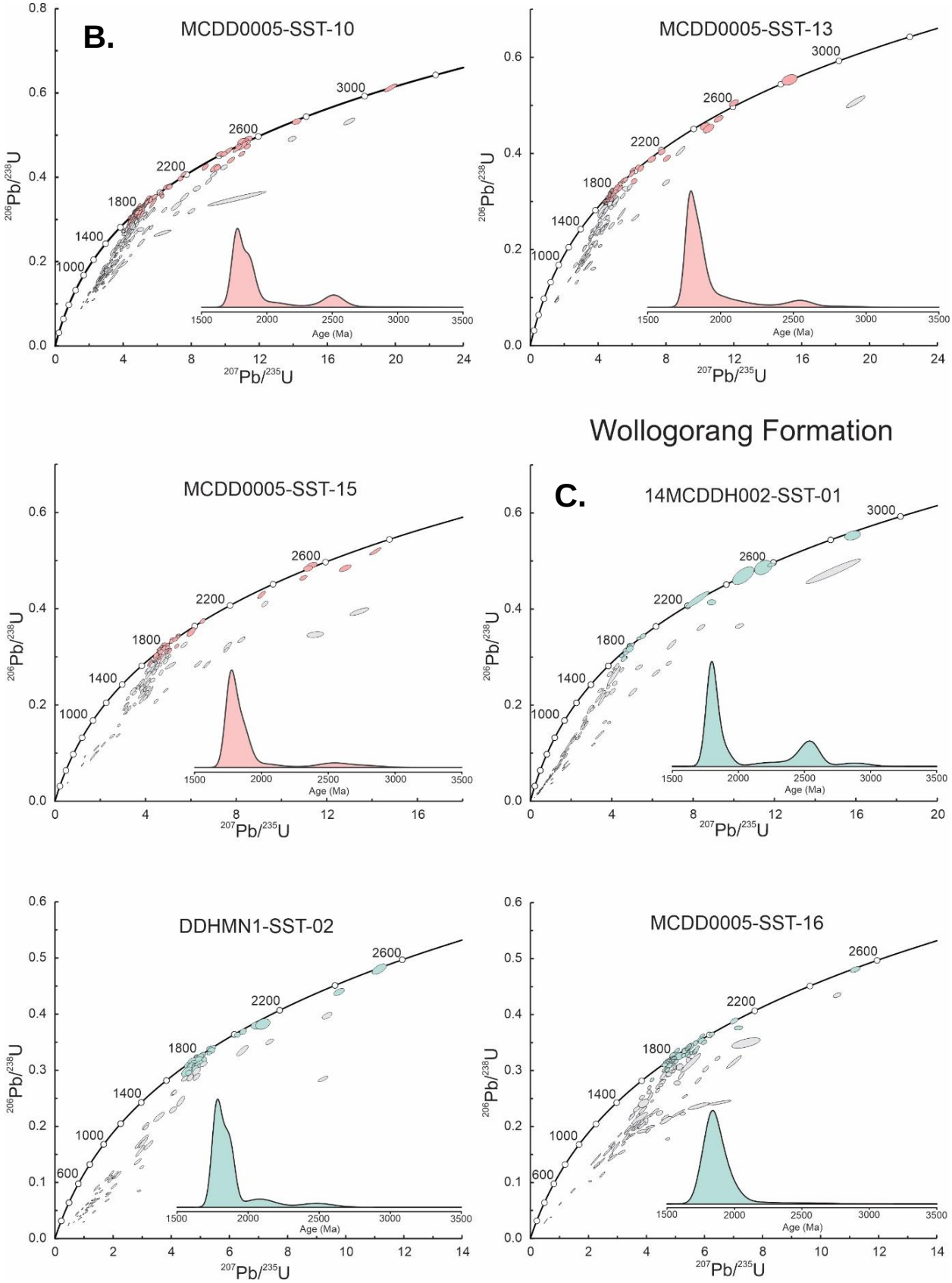

Figure 5: U-Pb Wetherill Concordia plots of samples from (B.) Masterton Sandstone (MCDD0005) and (C.) Wollogorang Formation (14MCDDH002, DDHMN1 and MCDD0005). Coloured ellipses represent >90% concordant grains in contrast with grey, discordant grains. Kernel Density Estimate (KDE) plots from >90% concordant grains are also coloured accordingly, showing major and minor detrital zircon age peaks.

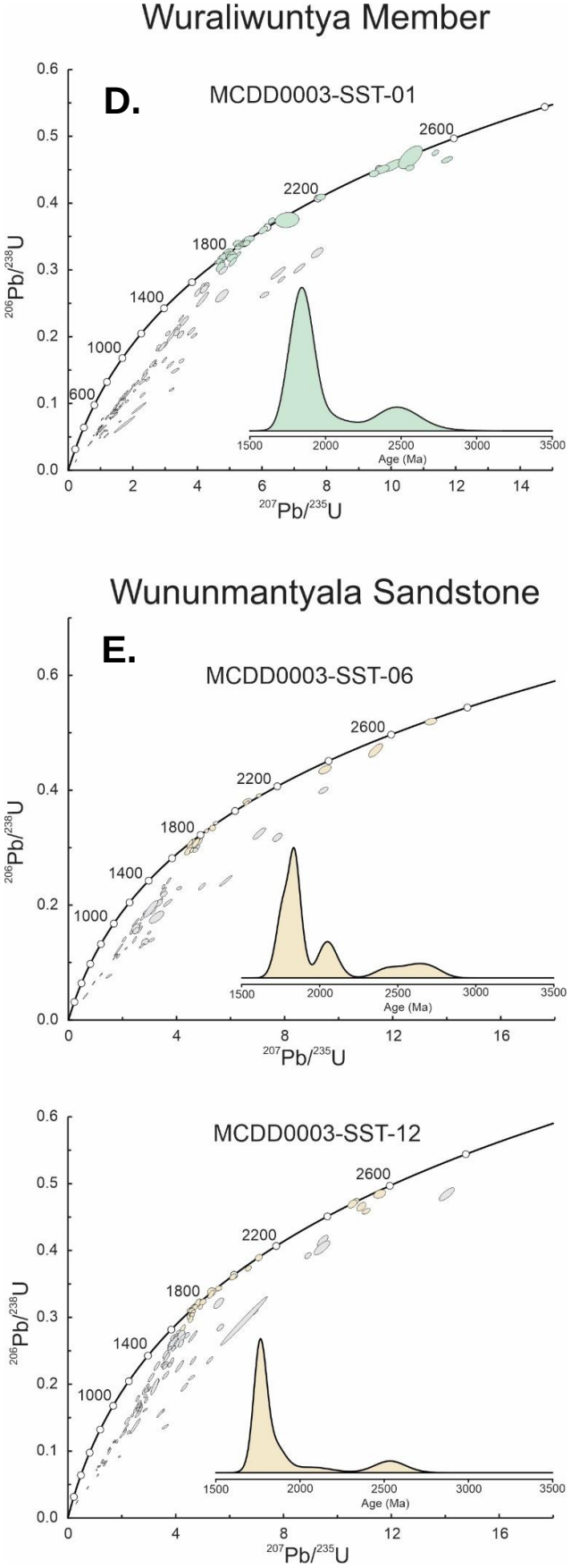

Figure 6: U-Pb Wetherill Concordia plots of samples from (D.) Wuraliwuntya Member and (E.) Wununmantyala Sandstone (MCDD0003). Coloured ellipses represent >90% concordant grains in contrast with grey, discordant grains. Kernel Density Estimate (KDE) plots from >90% concordant grains are also coloured accordingly, showing major and minor detrital zircon age peaks.

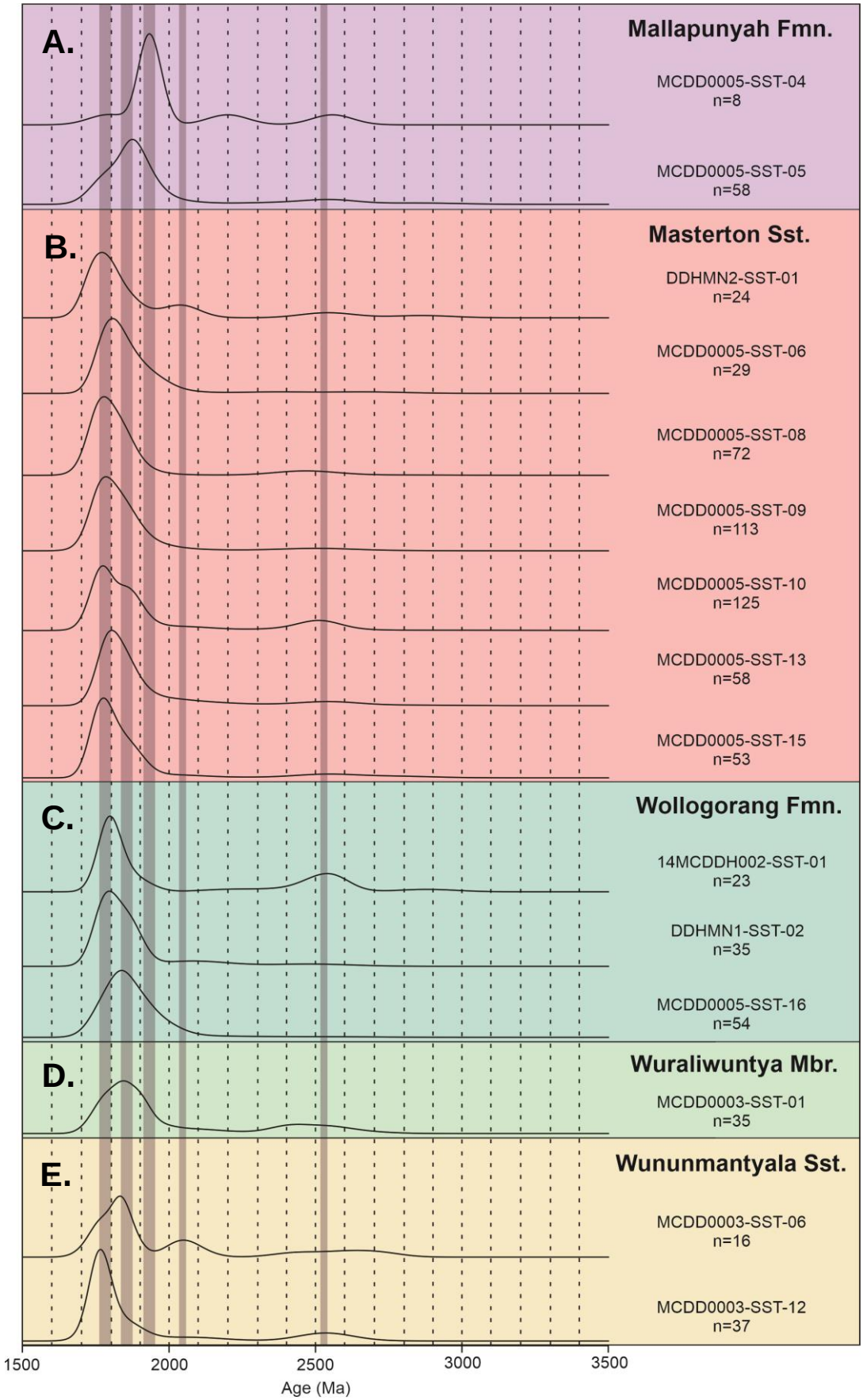

Figure 7: Compilation of Kernel Density Estimate (KDE) plots for samples within McArthur Group: (A.) Mallapunyah Formation and (B.) Masterton Sandstone, and Tawallah Group: (C.) Wollogorang Formation, (D.) Wuraliwuntya Member, and (E.) Wununmantyala Sandstone. Major peaks are highlighted with thick vertical line, while minor peaks are highlighted with thin vertical line. All data used are within >90% concordant grains.

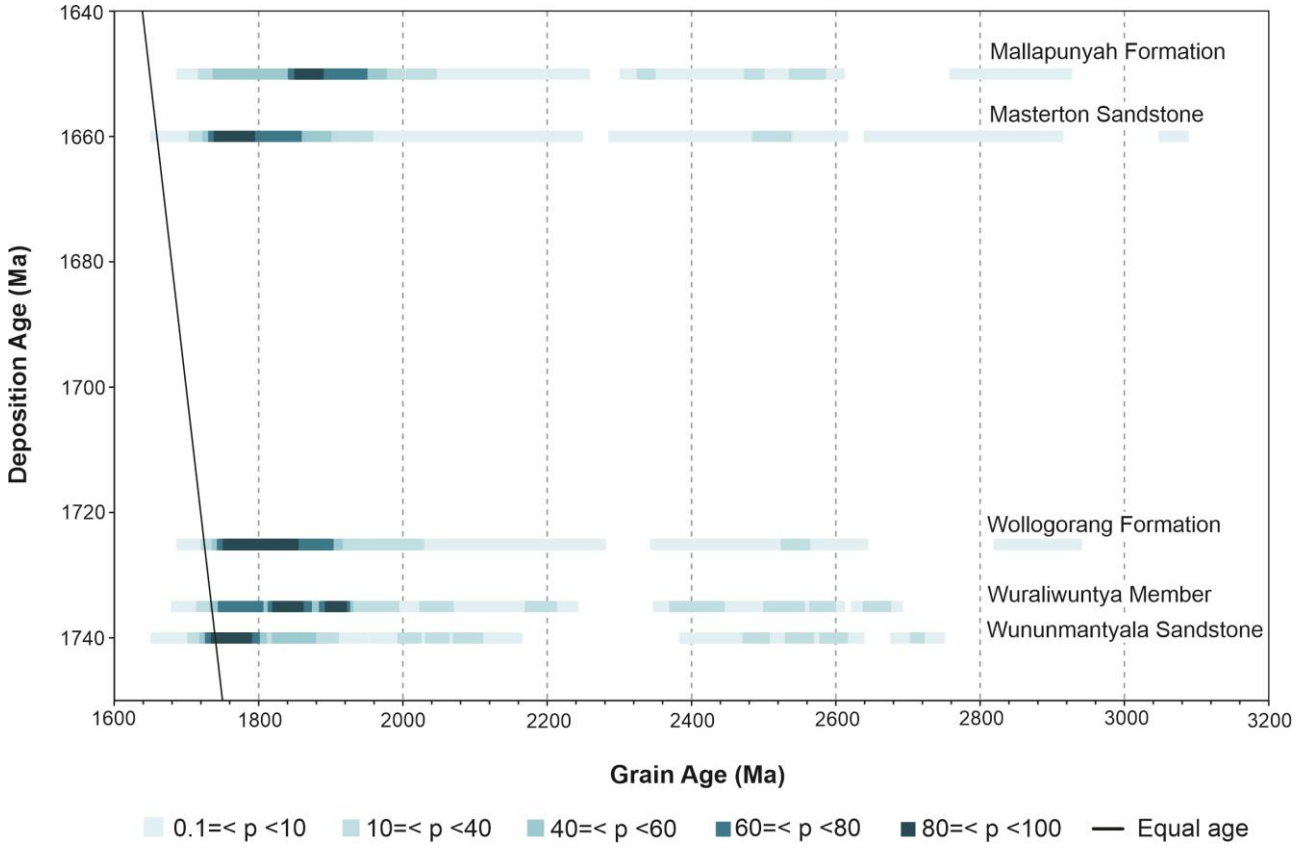

Figure 8: Multiple independent probability density plot as per Eglington (2016) of the McArthur and Tawallah Groups based on their stratigraphic age hierarchy. Equal age line represents the correlated values between estimated deposition age in (Ma) and estimated grain age in (Ma). The plot shows the distribution of dominant population peaks within the target units.

REE Analysis

Recorded simultaneously with the U-Pb are the REE abundances in the detrital zircons. The REE composition of the zircon reflects the composition of the magma in which they grew (Dabard et al., 1996). Therefore, by studying the abundances of REE within the samples, it can determine the nature of the magma it grew in and compare it with the possible source in the hinterland of the basin. Fifteen samples were analysed for REE and only >90% concordant data are used. These data were normalised using Taylor and McLennan (1985) and plotted in spider plots to show their variances with concordance (Figure 9 and 10) and age in Ma (Figure 11 and 12). Correlation with age in figure 11 and 12 shows higher normalised REE values are predominantly from samples that tend towards younger age (>1700 Ma). Light REE (La–Gd) are generally low abundance compared to heavy REE (Tb–Lu) for all samples. Curvature and increasing trend in HREE can be observed. Positive values for Ce and negative values for Eu are present for all samples. Middle REE/light REE (Gd/La normalised), heavy REE/middle REE (Lu/Gd normalised), heavy REE/light REE (Lu/La normalised), Eu* and Ce* anomalies are calculated (Table 4) and plotted in X-Y scatter plot (Figure 13) to show partition in abundances based on each formation in this study. All formation tend to have Eu anomalies (Table 4) lower than the significant values based on Hoskin and Ireland (2000) which is >0.59. Mallapunyah Formation (Figure 13A) shows a more scattered data compare to Masterton Sandstone (Figure 13B) and Wollogorang Formation (Figure 13C). However, this could just be due to fewer data in the Mallapunyah Formation.

Formation	Gd/La_N	Lu/Gd_N	Lu/La_N	Eu^*_N	Ce^*_N
Mallapunyah Formation	1.03 to 1258.14 (Average of 127.88)	0.98 to 42.62 (Average of 12.67)	8.67 to 23434.60 (Average of 1879.20)	0.04 to 0.63 (Average of 0.29)	0.10 to 122.72 (Average of 11.80)
Masterton Sandstone	0.22 to 5996.73 (Average of 406.51)	0.70 to 97.81 (Average of 13.84)	0.74 to 95450.10 (Average of 6526.95)	0.01 to 0.85 (Average of 0.39)	0.47 to 414.97 (Average of 17.77)
Wollogorang Formation	0.94 to 4734.42 (Average of 521.25)	0.29 to 53.16 (Average of 17.17)	8.64 to 125552.63 (Average of 9273.37)	0.01 to 0.75 (Average of 0.31)	0.88 to 525.17 (Average of 30.11)
Wuraliwuntya Member	1.31 to 2534.98 (Average of 245.01)	1.09 to 25.53 (Average of 14.98)	6.64 to 43460.53 (Average of 3935.76)	0.02 to 0.79 (Average of 0.34)	0.63 to 400.67 (Average of 27.12)
Wununmantyala Sandstone	1.99 to 2666.45 (Average of 447.36)	2.25 to 46.82 (Average of 15.62)	11.48 to 44135.54 (Average of 7609.99)	0.05 to 0.74 (Average of 0.38)	1.03 to 217.92 (Average of 26.90)

Table 4: Lists of REE slope values and average including middle REE/light REE (Gd/La normalised), heavy REE/middle REE (Lu/Gd normalised), and heavy REE/light REE (Lu/La normalised) within the formation to show the slope of the data. Range of europium and cerium anomalies are also listed with its calculated average values.

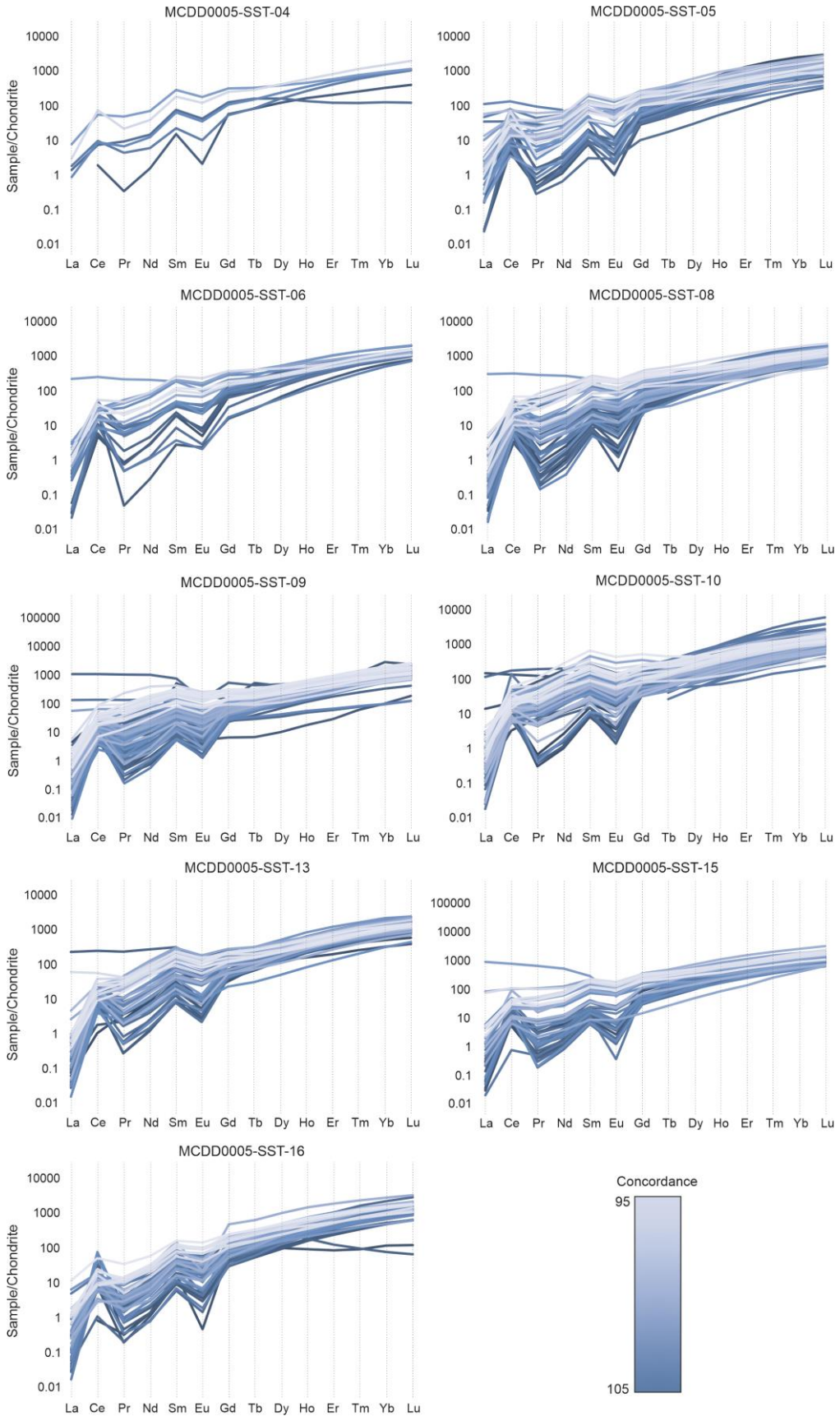

Figure 9: REE concentration plot of targeted samples from McArthur and Tawallah Groups within drill core MCDD0005. Element concentration is normalised with chondrite values from Taylor & McLennan (1985). Trends are coloured based on concordance; dark blue indicates more concordant data while light blue represents less concordant data. Data >95% concordance are used.

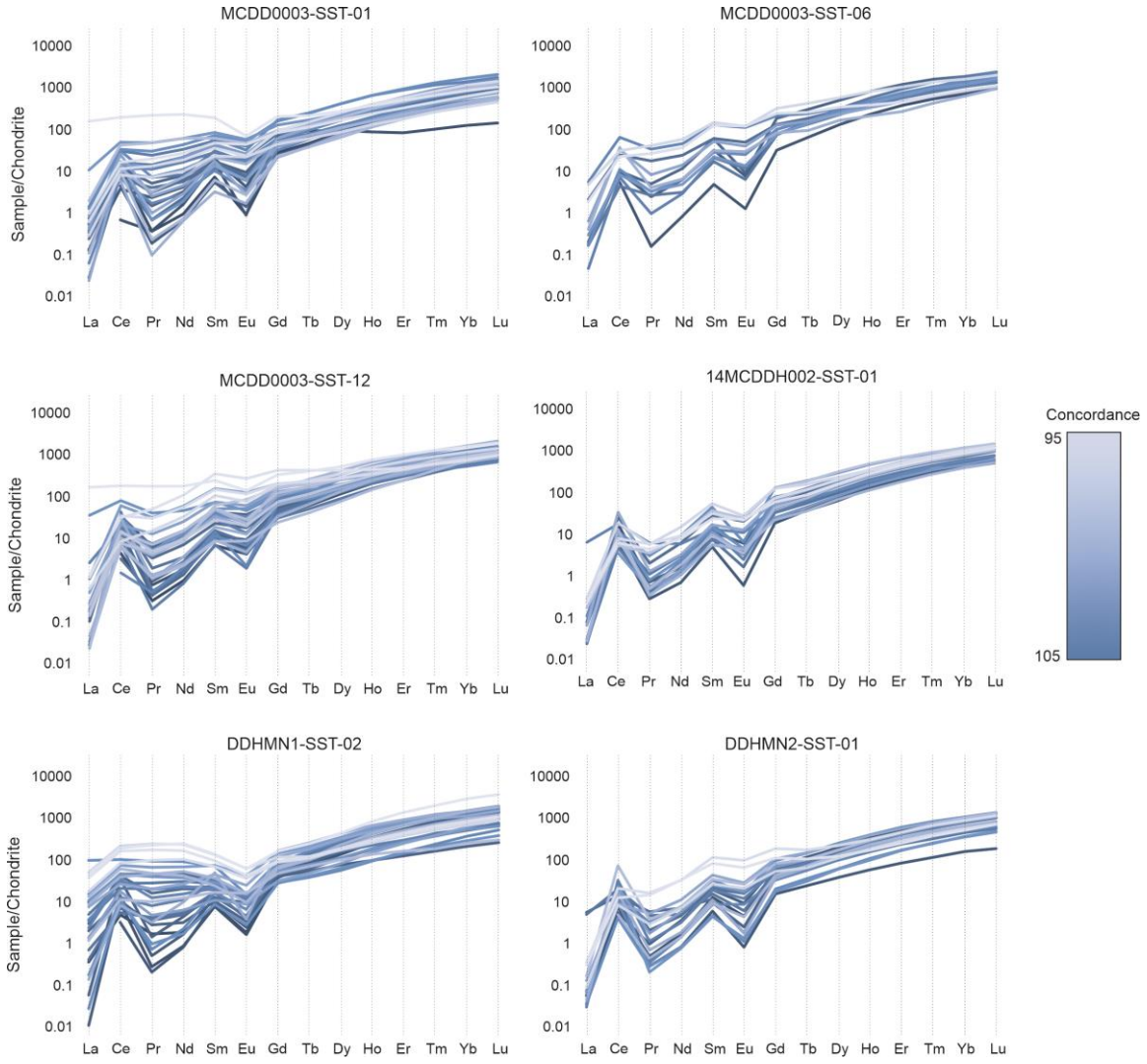

Figure 10: REE concentration plot of targeted samples from McArthur and Tawallah Groups within drill core MCDD0003, 14MCDDH002, DDMHMN1 and DDHMN2. Element concentration is normalised with chondrite values from Taylor & McLennan (1985). Trends are coloured based on concordance; dark blue indicates more concordant data while light blue represents less concordant data. Data >95% concordance are used.

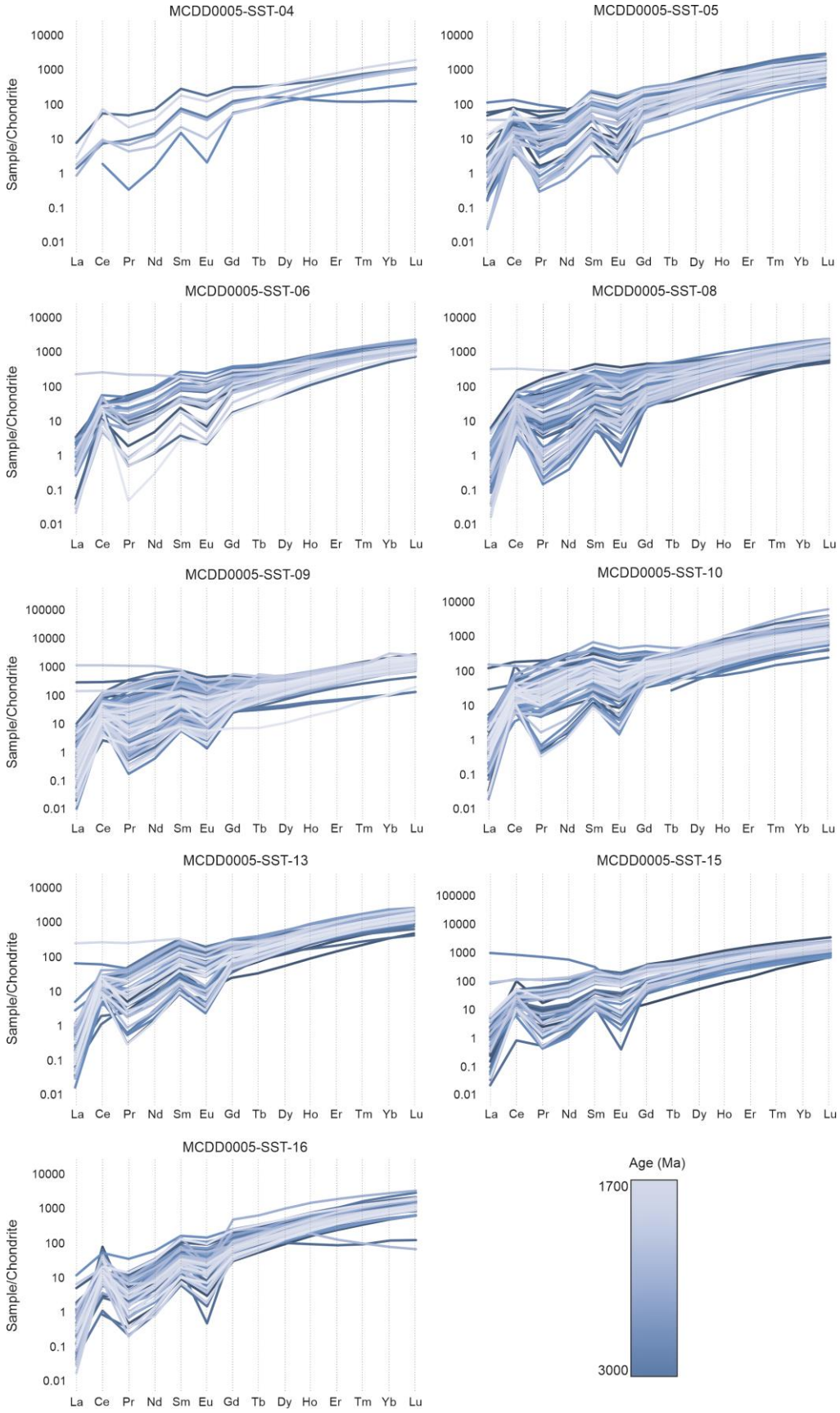

Figure 11: REE concentration plot of targeted samples from McArthur and Tawallah Groups within drill core MCDD0005. Element concentration is normalised with chondrite values from Taylor & McLennan (1985). Trends are coloured based on age (Ma); dark blue indicates older ages while light blue represents younger ages. Data >95% concordance are used.

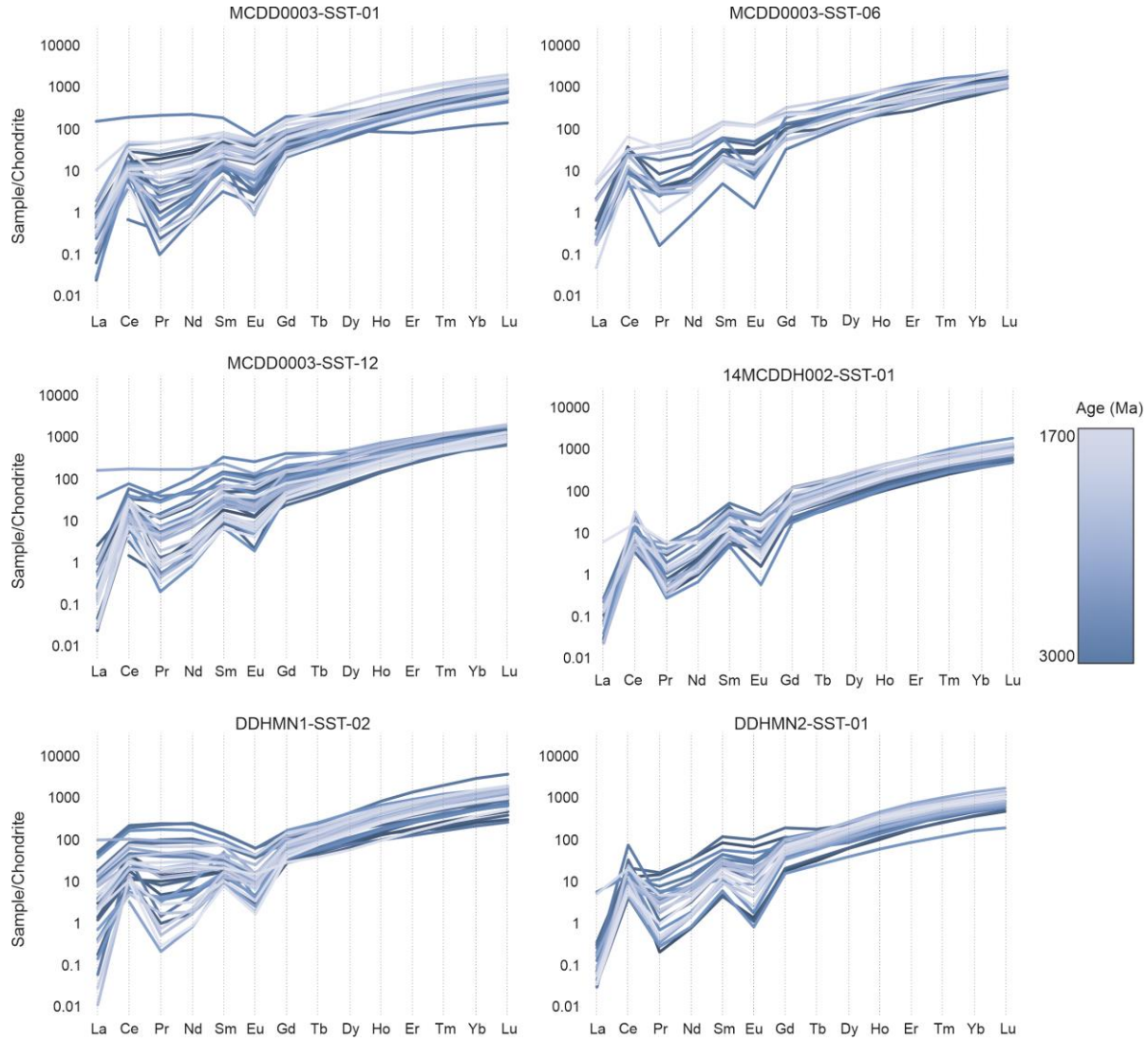

Figure 12: REE concentration plot of targeted samples from McArthur and Tawallah Groups within drill core MCDD0003, 14MCDDH002, DDHMN1 and DDHMN2. Element concentration is normalised with chondrite values from Taylor & McLennan (1985). Trends are coloured based on age (Ma); dark blue indicates older ages while light blue represents younger ages. Data >95% concordance are used.

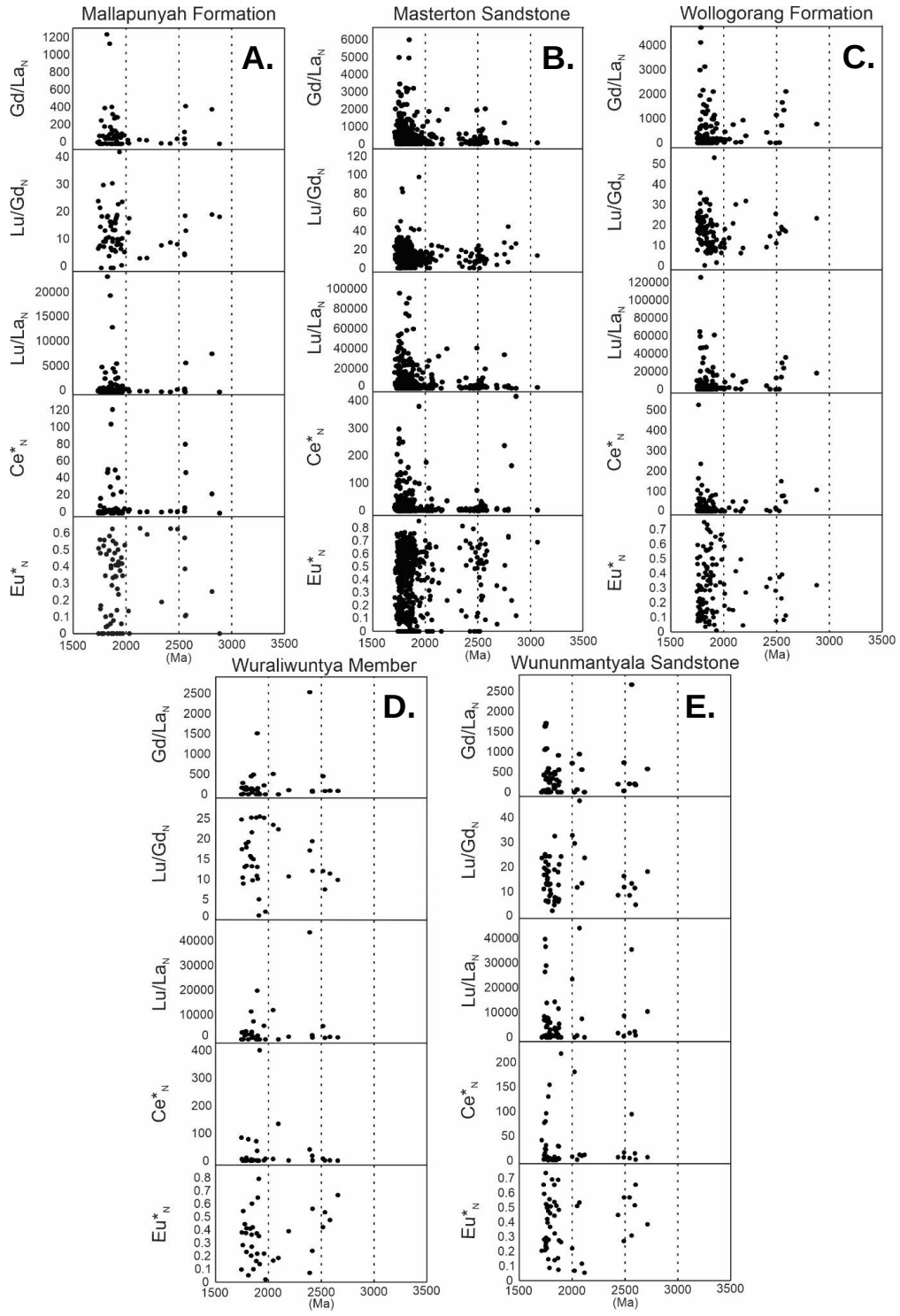

Figure 13: Calculated REE's Eu* and Ce* values using equation from Tostevin et al. (2016), as well as heavy REE/light REE (Lu/La), heavy REE/medium REE (Lu/Gd), and medium REE/light REE (Gd/La) values plotted against age (Ma), all using normalised REE values.

Group	Formation	Core ID	Sample No.	Depth (m)		No. concordant grains	Age Peaks (Ma)	Youngest single concordant age (Ma)	Youngest concordant population age (Ma)	MSWD
McArthur Group	Mallapunyah Formation	MCDD0005	SST-04	298.86	299.13	8	1780 Ma, **1930 Ma**, 2200 Ma, 2550 Ma	1794 ± 43	1941 ± 18 (5)	1.11
		MCDD0005	SST-05	338.65	339.24	58	1780 Ma, **1880 Ma**, 2550 Ma	1740 ± 28	1746 ± 15 (3)	0.36
	Masterton Sandstone	DDHMN2	SST-01	7.29	7.68	24	**1780 Ma**, 2030 Ma, 2520 Ma 2700 Ma	1715 ± 50	1724 ± 26 (3)	0.11
		MCDD0005	SST-06	358.19	358.64	29	**1800 Ma**, 2300 Ma, 2700 Ma	1766 ± 43	1774 ± 14 (8)	0.14
		MCDD0005	SST-08	376.56	377.02	72	**1780 Ma**, 1850 Ma, 2450 Ma	1714 ± 45	1732 ± 11 (6)	0.36
		MCDD0005	SST-09	389.58	390.18	113	**1780 Ma**, 1870 Ma, 2500 Ma	1709 ± 28	1730 ± 9 (7)	0.52
		MCDD0005	SST-10	397.76	398.22	125	**1790 Ma**, 1880 Ma, 2200 Ma, 2500 Ma	1716 ± 48	1734 ± 11 (6)	0.21
		MCDD0005	SST-13	424.62	424.98	58	**1800 Ma,** 2000 Ma, 2550 Ma	1746 ± 39	1760 ± 19 (5)	0.19
		MCDD0005	SST-15	452.70	453.19	32	**1790 Ma**, 2000 Ma, 2550 Ma	1740 ± 21	1754 ± 7 (16)	0.54
Tawallah Group	Wollogorang Formation	14MCDDH002	SST-01	2.64	2.95	23	**1800 Ma**, 2300 Ma, 2550 Ma, 2900 Ma	1761 ± 42	1767 ± 24 (3)	0.16
		DDHMN1	SST-02	55.38	56.19	35	**1790 Ma**, 1850 Ma, 2100 Ma, 2500 Ma	1753 ± 28	1770 ± 9 (12)	0.69
		MCDD0005	SST-16	469.07	469.42	19	**1850 Ma**, 2000 Ma	1746 ± 29	1754 ± 10 (5)	0.31
	Wuraliwuntya Member	MCDD0003	SST-01	230.20	230.85	35	**1850 Ma**, 2000 Ma, 2450 Ma	1745 ± 38	1751 ± 18 (3)	0.14
	Wununmantyala Sandstone	MCDD0003	SST-06	363.58	364.07	16	1740 Ma, **1830 Ma**, 2050 Ma, 2450 Ma, 2650 Ma	1730 ± 21	1833 ± 12 (4)	0.02
		MCDD0003	SST-12	510.45	511.09	37	**1760 Ma**, 1850 Ma, 2100 Ma, 2530 Ma	1712 ± 39	1736 ± 13 (5)	0.52

Table 5: Sample list for U-Pb and REE analyses. Samples taken from upper, middle and lower part of the Formations present within the cores for possible spatial and lateral disparities. Major $^{207}Pb/^{206}Pb$ age peaks are in bold fonts. Maximum depositional age from the youngest, statistically discrete, concordant grain and population, and its MSWD values are also summarised.

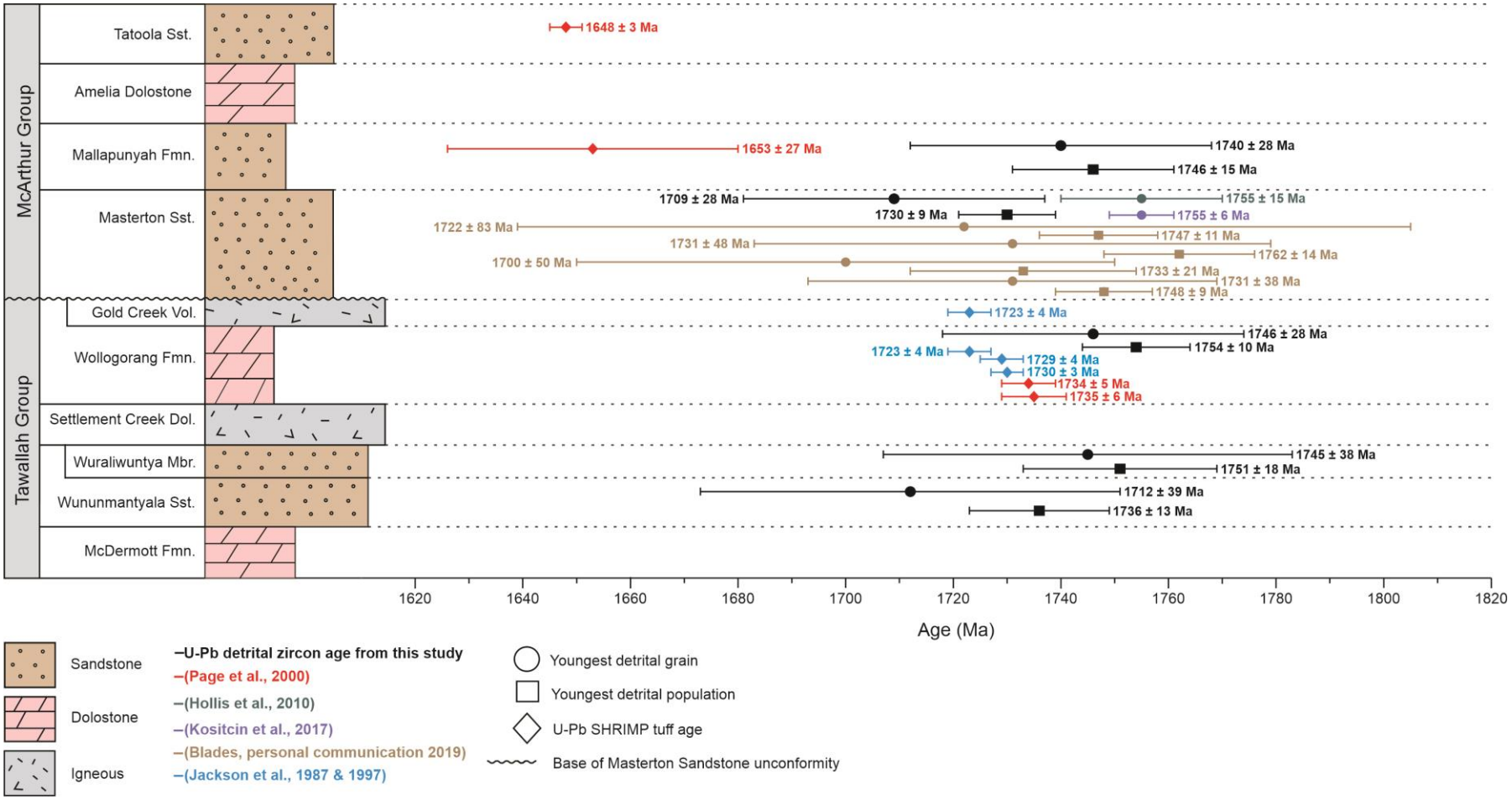

Figure 14: Compilation of U–Pb detrital and tuff ages within the McArthur and Tawallah Groups. Detrital ages are represented by youngest, near-concordant, grain (circle) and population (square) from this study (black), Hollis et al. (dark green: 2010), Kositcin et al. (purple: 2017), and M. L. Blades (Brown: personal communication, September 6, 2019). U-Pb SHRIMP tuff (diamond) ages from Page et al. (Red: 2000) and Jackson et al. (Blue: 1987 & 1997) are also listed.

DISCUSSION

DEPOSITIONAL AGE CONSTRAINTS

New constraints for maximum depositional ages based on the youngest, near-concordant grain and population are summarised in table 5 and figure 14. The maximum depositional age for the Wununmantyala Sandstone from this study is 1712 ± 39 Ma. Overlying is the Wuraliwuntya Member with a maximum depositional age of 1745 ± 38 Ma. These ages provide the first constraints for these units. The unit above is the Wollogorang Formation which yield a maximum depositional age of 1746 ± 29 Ma. These are the samples from the Tawallah Group. Unconformably overlying the Wollogorang Formation is the Masterton Sandstone with a maximum depositional age of 1709 ± 28 Ma. The unit above is the Mallapunyah Formation which record a maximum depositional age of 1740 ± 28 Ma. These are the samples from the McArthur Group.

Jackson et al. (1997) assigned three U–Pb SHRIMP zircon crystallisation ages from tuffs within the Wollogorang Formation (Figure 14: 1730 ± 3 Ma, 1729 ± 4 Ma, and 1723 ± 4 Ma). Similarly, Page et al. (2000) have constrained crystallisation ages of 1735 ± 6 and 1734 ± 5 Ma (Figure 14) . These are slightly younger compare to the ages from this study. Detrital U-Pb data from M. L. Blades (personal communication, September 6, 2019) provides maximum depositional age for the Masterton Sandstone using the youngest, near-concordant, grain (Figure 14: 1731 ± 38, 1700 ± 50, 1731 ± 48, and 1722 ± 83 Ma). In addition, Kositcin et al. (2017) and Hollis et al. (2010) also provided a maximum depositional age of 1755 ± 6 and 1755 ± 15 Ma, respectively (Figure 14). These are slightly older than the maximum depositional constraint from this

study. The Mallapunyah Formation is assigned with U-Pb SHRIMP crystallisation ages of 1653 ± 3 Ma from tuff ages by Page et al. (2000). This is a lot younger than the constraint from this study but given that it is taken from the upper Mallapunyah Formation and with different techniques, it may have influenced the differences between the data.

In addition, some of the samples in this study are categorised into different formation on their initial well completion report compare to the recent findings from a high-resolution sequence stratigraphy cross-section (Figure 2: M. Kunzmann, personal communication, June 26, 2019). These samples include: MCDD0005 (SST-10, SST-13, SST-15, and SST-16: Grey, 2018), 14MCDDH002 (SST-01: Grey, 2014), and DDHMN1 (SST-02: Wetherley, 2014) which was assigned to Warramana and Gold Creek Volcanics prior to recent findings. These changes are made due to consideration of unconformity within the base of the Warramana Sandstone in the well completion report. According to M. Kunzmann (personal communication, June 26, 2019) the initial drill core log considers the unconformity as contact between the Warramana and Masterton Sandstone, though it does not reach the requirements to become facies contact since it occurs in the middle of the sandstone layer (Figure 15). Instead it should be considered as the base of the McArthur Group unconformity (Figure 2).

Figure 15: Drill core image from MCDD0005 at around 460 metre depth. Unconformity at the base of Masterton Sandstone (McArthur Group) marked by red arrows (M. Kunzmann, personal communication, June 26, 2019).

PROVENANCE VARIATION AND BASIN EVOLUTION

To show the age distribution per drill holes and per formation, Kernel Density Estimate (KDE) plot (Figure 7) and multiple independent probability plot (Figure 8) is used to represent the major and minor peak detritus from this study. Three major peaks (ca. 1770, 1850, and 1930 Ma) and two minor peaks (ca. 2030 and 2520 Ma) can be observed in figure 7. These peaks are consistent throughout the sequence, however major peaks shift to older ages up-stratigraphy (Figure 7 and 8). This may suggest that younger rocks are sourcing differently from older rocks. To show the changes in provenance within the samples, a multidimensional scaling (MDS) plot is used to compare the resemblance and difference of U-Pb ages. These samples are compared

with proposed sources of provenance in the northern (Pine Creek and Halls Creek Orogens magmatic and detrital zircon), southern (Aileron Province and Tanami Region detrital and magmatic zircon), and eastern (Mount Isa Orogen detrital zircon) surrounding of the basin (Figure 1 and 16). Data shows a lot of similarities between the Aileron Province detrital and the combined samples per formation. However, data from each drill core samples shows variation in provenance sources. A shift of provenance source from the Aileron Province detrital towards the Pine Creek Orogen magmatic and detrital can be observed without any relevant order in relation to their stratigraphic hierarchy (Figure 1 and 16). Data from other study (Drill core WE1 and MY YOUNG: M. L. Blades, personal communication, September 6, 2019) is also added into the MDS plot which show similar trend (Figure 16). This suggests that the sediments may be simultaneously sourced from these two regions. There's also a possibility that they may all be sourcing from different age rocks in the Aileron Province.

Trace elements geochemistry from detrital zircon has been used in early study to explore the provenance and parental melts of zircon grains (Rubatto, 2002). Heavy REE depletion in zircon reflects its competition with garnet during crystallisation, a common pattern observed in igneous melts accompanied by positive Ce and negative Eu anomalies (Hoskin & Schaltegger, 2003). A negative Eu anomaly in zircon infer its coexistence with plagioclase, it is a known sink for Eu during crystallisation (Rubatto, 2002). Figure 13 shows cluster of data at lower Lu/Gd_N concentration which infers that HREE are relatively depleted, suggesting that they are sourced from a garnet bearing granite. Consistent negative Eu anomalies are also observed which infer presence of plagioclase in the melt.

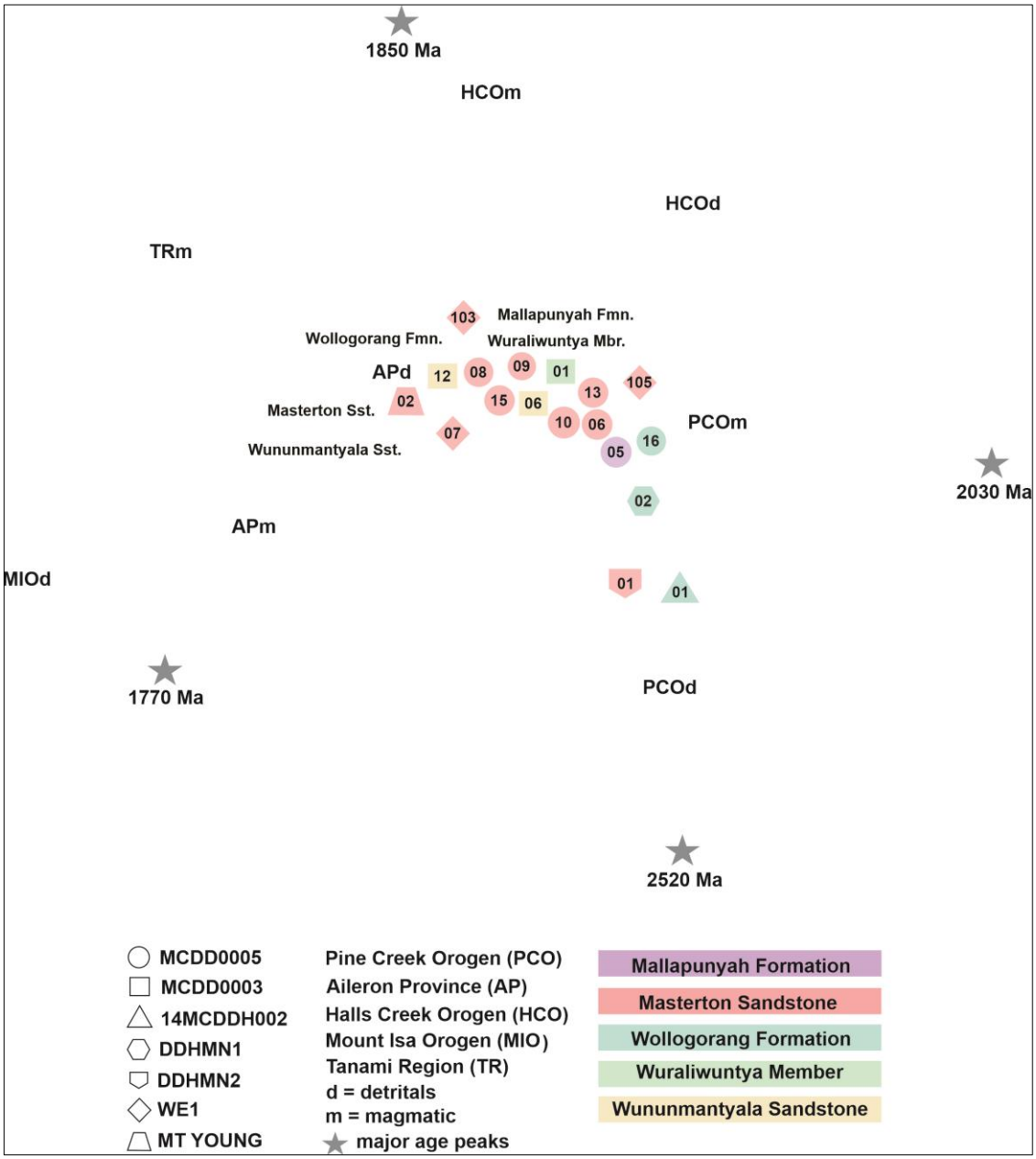

Figure 16: Non-parametric multidimensional scaling (MDS) plot of sandstone samples. The McArthur Group includes the Mallapunyah Formation (purple) and Masterton Sandstone (red). The Tawallah Group includes the Wollogorang Formation (cyan blue), Wuraliwuntya Member (light green), and Wununmantyala Sandstone (light yellow). Each drill cores are represented with unique symbols, while provenance sources are represented by their abbreviation. Samples from drill core WE1 and MT YOUNG are from M. L. Blades (personal communication, September 6, 2019). Similar samples plot near each other while opposite is true for dissimilar samples.

The Aileron Province (Figure 1) is known to have undergone episodes of orogenic building and magmatism (Claoué-Long & Hoatson, 2005). The earliest magmatism was part of the Stafford (ca. 1810 to 1800 Ma) and Yambah (ca. 1790 to 1770 Ma) Events (Cawood & Korsch, 2008). Cawood and Korsch (2008) suggested that a continuous subduction off the southern margin of the North Australian Craton prompted these events (Figure 17). Continental rifting and a west-dipping subduction zone were also present at ca. 1790 to 1760 Ma between the eastern margin of the North Australian Craton and north-western margin of the Laurentia continent (Figure 17: Blaikie et al., 2017). Presumably, these events are interpreted to have driven the uplifting and exposure of different age rocks from the Aileron Province which prompted the deposition of detritus to the McArthur Basin *sensu stricto*. Hence, it is possible that all samples are sourcing from the Aileron Province with variation in sediment ages due to the episodes of magmatism and orogenic event at the time of deposition.

A continuous east-dipping subduction off the southern margin of the North Australian Craton prompted the Strangways Event (ca. 1740 to 1690 Ma: Cawood & Korsch, 2008) in the Aileron Province (Figure 1 and 17). Coevally, the Leichhardt Event in the Mount Isa Orogen began at ca. 1740 to 1710 Ma (Blaikie et al., 2017). The Strangways Event is still believed to be influencing the exposure and erosion of different age rocks in the Aileron Province at the time. On the eastern margin of the North Australian Craton is the Laurentia continent (Figure 17). At ca. 1650 Ma, backarc rifting between the Georgetown Inlier and Laurentia has formed due to the development of an east-dipping subduction zone (Figure 17: Nordsvan et al., 2018). This prompted the separation of Georgetown Inlier from Laurentia. Continuous subduction has driven the amalgamation and accretion of the Georgetown Inlier to the North Australian Craton at

ca. 1600 Ma (Figure 17: Pourteau et al., 2018). The Chewings Event (Figure 17) in the Aileron Province occurred at ca. 1600 to 1580 Ma, driven by an east-dipping subduction zone south of the North Australian Craton (Cawood & Korsch, 2008).

Munson (2019) suggested that the succession within the McArthur Basin *sensu stricto* is mostly deposited in a shallow-marine to emergent, lesser continental/fluvial environment. M. Kunzmann (personal communication, June 26, 2019) summarised the lithofacies and depositional environment of the samples used in this study (Figure 2). The Mallapunyah Formation is predominantly deposited in a supra- to intertidal environment (i.e. sabkha and mudflat: Figure 2). The Masterton Sandstone is deposited in an inter- to shallow subtidal environment ranging from foreshore, shoreface, and barrier settings (Figure 2). In addition, the Wollogorang Formation varies with predominantly subtidal to offshore environment from a lower shoreface to offshore settings (Figure 2). The Wuraliwuntya Member and Wununmantyala Sandstone are both deposited in an inter- to shallow subtidal environment (i.e. foreshore, shoreface, and barrier settings: Figure 2).

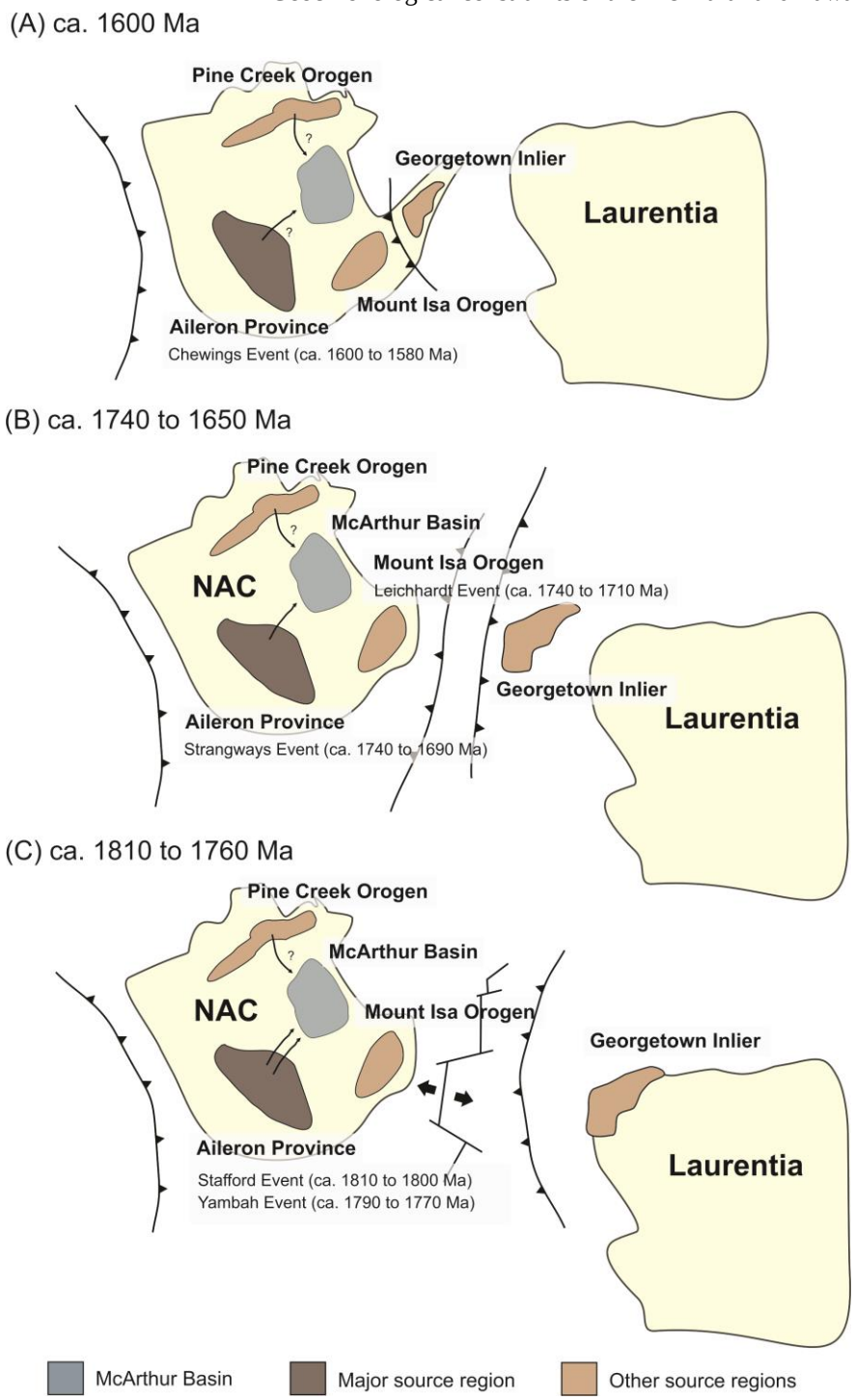

Figure 17: Tectonic geography and reconstruction of the North Australian Craton and Laurentia from ca. 1810 to 1600 Ma. Major source region is the Aileron Province (brown) with indication of sediment inputs towards the McArthur Basin. (A) amalgamation and accretion of the Georgetown Inlier to the North Australian Craton (NAC) at ca. 1600 Ma (Pourteau et al., 2018) and the occurrence of the Chewings Event in the Aileron Province at ca. 1600 to 1580 Ma caused by an east-dipping subduction zone in the western margin of the NAC (Cawood & Korsch, 2008). (B) backarc rifting between the Georgetown Inlier and Laurentia due to development of an east-dipping subduction zone off the western part of Laurentia (Nordsvan et al., 2018). Complete separation of the Georgetown Inlier by ca. 1650 Ma. Beginning of the Strangways Event in the Aileron Province at ca. 1740 to 1690 Ma (Cawood & Korsch, 2008) caused by an east-dipping subduction zone off the western part of the NAC and the coeval Leichhardt Event in the Mount Isa Orogen at ca. 1740 to 1710 Ma (Blaikie et al., 2017) caused by the west dipping subduction zone off the eastern boundary of the NAC. (C) continental rifting and a west-dipping subduction zone at ca. 1790 to 1760 Ma (Blaikie et al., 2017) off the eastern margin of the NAC. Continuous subduction off the western margin of the NAC which prompted the Stafford (ca. 1810 to 1800 Ma) and Yambah (ca. 1790 to 1770 Ma) Events (Cawood & Korsch, 2008).

CONCLUSIONS

Using data from U–Pb detrital zircon and REE analysis, the maximum depositional age of the sandstone units within the McArthur and Tawallah Groups and their provenance are constrained. The evolution of the basin around the time of deposition is also discussed.

- U–Pb detrital zircon age provide maximum depositional age (MDA) of the units within the McArthur and Tawallah Groups based on the youngest, near-concordant grain. The two lower units of the McArthur Group includes; the Mallapunyah Formation (MDA of 1740 ± 28 Ma), and the Masterton Sandstone (MDA of 1709 ± 28 Ma). The three upper units of the Tawallah Group includes the Wollogorang Formation (MDA of 1746 ± 29 Ma), the Wuraliwuntya Member (MDA of 1745 ± 38 Ma), and the Wununmantyala Sandstone (MDA of 1712 ± 39 Ma). The sequence demonstrates an age shift up-stratigraphy from younger to older maximum depositional age and peak detritus.
- REE analyses provide insights on the nature of the magma where the zircon grew. Overall, the samples from the McArthur and Tawallah Groups demonstrated a depleted heavy REE which suggests that they grew from a garnet bearing source. Negative Eu anomalies for all sample indicate the presence of plagioclase during the crystallisation of zircon.
- Provenance source are presumed to be coming from the Aileron Province. The deposition of sediments has been related to the major magmatic and orogenic events that happened in the Aileron Province between ca. 1810 to 1800 Ma (Stafford Event), ca. 1790 to 1770 Ma (Yambah Event), and ca. 1740 to 1690 Ma (Strangways Event). These events are interpreted to be driven by a long-

lived subduction zone off the southern margin of the North Australian Craton. The boundary between the eastern North Australian Craton and north-western Laurentia has experienced rifting, backarc, and subduction settings from ca. 1810 to 1600 Ma. The subduction lead to the amalgamation and accretion of the Georgetown Inlier to the North Australian Craton at ca. 1600 Ma.

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APPENDIX

Detrital zircon preparation

Mineral Preparation

1. Sanitise bench top, jaw crusher, disc mill and ring mill prior and after use with ethanol and compressed air gun. Place butcher paper on the bench to minimise contamination.
2. Crush rock using jaw crusher with butcher paper placed on the tray.
3. Transfer the samples from the butcher paper into the disc mill, then placed it on a new butcher paper.
4. Separate samples using sieve with >479 µm and <79 µm mesh using Endcotts EPL2000 super shaker.
5. Placed samples that are >479 µm to the tungsten ring mill for 15 seconds and sieve them back on the shaker. Repeat until the amount of sample >479 µm is less than a handful.
6. Store the samples into three different plastic bag (>479 µm, zircon fraction, and <79 µm) and label accordingly with their grain fraction.

Mineral Separation

1. Sanitise the room and benches with ethanol and vacuum the floor. Clean the apparatus that will be used with tap water.
2. Place zircon fraction into a small pan and set up a larger pan in the sink. Proceed panning the samples to separate light and heavy grains. Place the separated light grain from the large pan into a funnel with filter paper for future purpose. Proceed until the portion left in the pan is about a 'fingernail' size.
3. Place the remaining portion into a filter paper in a funnel to remove water.
4. Dry in a hotplate at 50^{o}C.
5. Use FRANZ magnetic to separate heavy and magnetic grains.
6. Transfer the remaining grain into a vial and label accordingly.

Zircon Picking and Mount Preparation

1. Clean petri dish with ethanol. Place under microscope. Transfer grains from the vial into the petri dish.
2. Use a pick to take zircon and place onto Teflon mount based with double sided tape.
3. Repeat process until there are approximately 300 grains.
4. Reconnect Teflon base into casing that's been coated with Vaseline to ease removal in the future.
5. Mix epoxy resin with approximately 5 g of epoxy and 0.5 g hardener, then place into the mount slowly, ensuring air pocket do not form.
6. Heat resin for less than 30 seconds on a 50^{o}C hotplate to eliminate bubbles if it formed. Let it cool for 24 hours afterwards.
7. Remove the mounts from the Teflon case and polish using sandpaper and polishing laps until zircon grains are exposed enough for U–Pb analyses.

U–Pb data

All U–Pb data for Mallapunyah Formation

Analysis	207Pb/235U	Error	206Pb/238U	Error	rho	Concordance	206Pb/238U	Error	207Pb/206Pb	Error
CC01_04 - 20	no value	NAN	no value	NAN	NaN	#VALUE!	no value	NAN	no value	NAN
CC01_04 - 9	6.161	0.13	0.3722	0.0042	0.61385	104.2966752	2039	20	1955	34
CC01_04 - 4	6.044	0.12	0.363	0.0042	0.62361	101.7848037	1996	20	1961	34
CC01_04 - 16	5.78	0.15	0.3538	0.005	0.028394	101.7726799	1952	24	1918	50
CC01_04 - 5	5.655	0.13	0.3514	0.0043	0.4012	101.0411244	1941	20	1921	40
CC01_04 - 3	7.425	0.15	0.3904	0.0042	0.28675	96.54545455	2124	20	2200	36
CC01_04 - 18	10.88	0.22	0.4625	0.005	0.44697	95.81540868	2450	22	2557	33
CC01_04 - 17	5.29	0.15	0.3225	0.0069	0.31884	93.60706861	1801	34	1924	47
CC01_04 - 8	4.424	0.11	0.2936	0.0039	0.32723	92.47491639	1659	19	1794	43
CC01_04 - 15	5.643	0.13	0.3256	0.0074	0.097824	89.23832924	1816	36	2035	54
CC01_04 - 2	4.543	0.1	0.281	0.0036	0.32693	83.64779874	1596	18	1908	38
CC01_04 - 19	5.66	0.21	0.2955	0.0038	0.55774	75.31588448	1669	19	2216	53
CC01_04 - 14	4.041	0.1	0.2485	0.0039	0.55776	74.92146597	1431	20	1910	41
CC01_04 - 6	4.282	0.091	0.244	0.0033	0.55562	68.66764275	1407	17	2049	36
CC01_04 - 11	7.587	0.16	0.2882	0.0046	0.86926	59.173314	1632	23	2758	33
CC01_04 - 1	4.703	0.13	0.2265	0.0043	0.18554	56.4882227	1319	23	2335	52
CC01_04 - 13	4.89	0.13	0.2175	0.0035	0.64233	50.65920895	1268	19	2503	41
CC01_04 - 21	9.3	0.67	0.261	0.017	0.49326	46.64576803	1488	88	3190	110
CC01_04 - 7	4.434	0.093	0.1891	0.0024	0.25646	43.61860102	1116.2	13	2559	36
CC01_04 - 12	4.23	0.094	0.1797	0.0032	0.68278	41.31109387	1065	18	2578	35
CC01_04 - 10	2.568	0.088	0.1273	0.0041	0.65553	34.11400795	772	23	2263	54
CC01_04 - 22	2.76	0.32	0.0904	0.0088	0.88649	18.88397414	555	51	2939	44
CC02_05 - 105	no value	NAN	no value	NAN	NaN	#VALUE!	no value	NAN	no value	NAN
CC02_05 - 106	no value	NAN	no value	NAN	NaN	#VALUE!	no value	NAN	no value	NAN
CC02_05 - 95	1220	150	10.8	1.3	0.99324	310.5390185	15440	740	4972	20
CC02_05 - 47	195	32	2.01	0.29	0.99905	141.8274327	6690	390	4717	29

CC02_05 - 34	5.112	0.074	0.3369	0.0034	0.406	104.753915	1873	16	1788	18
CC02_05 - 32	6.12	0.1	0.3685	0.0036	0.56191	104.1731066	2022	17	1941	17
CC02_05 - 35	12.08	0.17	0.5106	0.006	0.39402	103.5449942	2658	26	2567	17
CC02_05 - 79	16.9	0.29	0.5869	0.0062	0.25327	103.1185031	2976	25	2886	23
CC02_05 - 42	5.21	0.099	0.3399	0.0037	0.40369	103.0601093	1886	18	1830	25
CC02_05 - 16	5.244	0.087	0.3384	0.0037	0.15733	102.9025192	1879	18	1826	29
CC02_05 - 6	5.36	0.14	0.3426	0.0045	0.071785	102.4824609	1899	21	1853	49
CC02_05 - 24	4.758	0.086	0.3202	0.0035	0.31491	101.8782015	1790	17	1757	26
CC02_05 - 18	4.84	0.12	0.3227	0.0046	0.017362	101.8654607	1802	22	1769	43
CC02_05 - 37	5.406	0.1	0.3403	0.0037	0.18072	101.5599785	1888	18	1859	30
CC02_05 - 23	15.47	0.35	0.5573	0.0075	0.31918	101.4570007	2855	31	2814	34
CC02_05 - 19	6.515	0.11	0.3749	0.0038	0.52272	101.4335146	2052	18	2023	18
CC02_05 - 45	5.431	0.09	0.3421	0.0035	0.45258	101.2813668	1897	17	1873	22
CC02_05 - 14	4.729	0.1	0.3183	0.0035	0.26446	101.1931818	1781	17	1760	34
CC02_05 - 12	5.428	0.094	0.3397	0.0033	0.40718	101.0182208	1885	16	1866	24
CC02_05 - 97	11.63	0.17	0.4928	0.0048	0.22331	100.8590394	2583	21	2561	19
CC02_05 - 40	5.02	0.12	0.3255	0.0041	0.29947	100.4972376	1819	19	1810	38
CC02_05 - 99	5.402	0.1	0.3394	0.0037	0.44134	100.48	1884	18	1875	27
CC02_05 - 44	6.021	0.097	0.3581	0.0035	0.41611	100.305033	1973	17	1967	22
CC02_05 - 21	9.95	0.24	0.4554	0.0062	0.23015	100.1651528	2426	28	2422	39
CC02_05 - 36	5.74	0.097	0.3484	0.0047	0.44879	99.89631934	1927	22	1929	26
CC02_05 - 70	4.571	0.083	0.3082	0.0033	0.12811	99.54022989	1732	16	1740	30
CC02_05 - 104	5.566	0.086	0.3434	0.0039	0.11631	99.37336815	1903	19	1915	26
CC02_05 - 15	5.406	0.1	0.336	0.004	0.014634	99.30851064	1867	19	1880	35
CC02_05 - 10	5.39	0.14	0.3349	0.0047	0.23145	98.83165162	1861	23	1883	45
CC02_05 - 61	4.88	0.11	0.3171	0.0042	0.60065	98.3924612	1775	20	1804	28
CC02_05 - 69	4.659	0.084	0.3098	0.0039	0.33773	98.0270575	1739	19	1774	24
CC02_05 - 11	5.38	0.13	0.3327	0.0043	0.25644	97.52370917	1851	21	1898	39
CC02_05 - 62	5.016	0.1	0.3206	0.0035	0.085907	97.39130435	1792	17	1840	37
CC02_05 - 53	5.56	0.12	0.3381	0.0052	0.80922	97.30430275	1877	25	1929	18
CC02_05 - 20	4.804	0.089	0.3129	0.0026	0.30095	97.11676812	1754.9	13	1807	23
CC02_05 - 100	5.378	0.08	0.3339	0.0033	0.31666	97.07266074	1857	16	1913	22
CC02_05 - 111	4.532	0.075	0.3017	0.0037	0.5582	96.97661152	1700	19	1753	23
CC02_05 - 85	10.99	0.2	0.4667	0.007	0.78736	96.75146771	2472	30	2555	15
CC02_05 - 8	4.473	0.077	0.3013	0.0047	0.55952	96.58508822	1697	23	1757	25
CC02_05 - 109	4.987	0.093	0.3199	0.0044	0.58296	96.2345347	1789	22	1859	26
CC02_05 - 66	4.969	0.089	0.3164	0.0034	0.3925	96.14758546	1772	17	1843	26

CC02_05 - 52	4.554	0.097	0.3042	0.0041	0.60615	95.69591951	1712	20	1789	28
CC02_05 - 28	4.739	0.1	0.309	0.0049	0.3536	95.64498346	1735	24	1814	34
CC02_05 - 81	4.36	0.093	0.2931	0.0039	0.5385	95.22988506	1657	19	1740	28
CC02_05 - 94	5.227	0.077	0.3227	0.0031	0.56473	94.79495268	1803	15	1902	16
CC02_05 - 30	8.46	0.13	0.4099	0.0047	0.33437	94.73684211	2214	22	2337	19
CC02_05 - 22	5.03	0.11	0.3162	0.005	0.69472	94.40298507	1771	24	1876	26
CC02_05 - 53	5.41	0.19	0.327	0.0097	0.82772	93.77572016	1823	47	1944	33
CC02_05 - 41	5.005	0.091	0.3133	0.0036	0.22222	93.65671642	1757	18	1876	28
CC02_05 - 53	5.39	0.13	0.3284	0.007	0.85091	93.60613811	1830	34	1955	22
CC02_05 - 96	5.909	0.1	0.3402	0.0036	0.13108	92.86417323	1887	17	2032	26
CC02_05 - 73	5.013	0.086	0.3125	0.0032	0.38654	92.60433175	1753	16	1893	24
CC02_05 - 80	4.853	0.098	0.3054	0.0054	0.8116	91.81818182	1717	27	1870	19
CC02_05 - 39	5.09	0.14	0.312	0.0056	0.8017	91.81102362	1749	27	1905	33
CC02_05 - 13	4.76	0.11	0.3026	0.0045	0.63944	91.76090468	1704	22	1857	29
CC02_05 - 92	4.98	0.13	0.3108	0.0063	0.76457	91.59663866	1744	31	1904	29
CC02_05 - 60	5.383	0.097	0.3218	0.0034	0.42191	91.56075241	1801	17	1967	24
CC02_05 - 2	6.471	0.14	0.3534	0.0052	0.76765	91.42053446	1950	25	2133	34
CC02_05 - 74	5.16	0.13	0.3137	0.0054	0.47118	91.32467532	1758	27	1925	40
CC02_05 - 54	5.483	0.1	0.325	0.0053	0.49281	91.24748491	1814	26	1988	25
CC02_05 - 67	4.706	0.093	0.2984	0.0038	0.63372	90.43524987	1683	19	1861	24
CC02_05 - 93	9.4	0.15	0.4155	0.005	0.62252	90.06835545	2240	23	2487	16
CC02_05 - 110	4.271	0.071	0.2811	0.004	0.51695	89.46778711	1597	20	1785	25
CC02_05 - 55	5.264	0.096	0.3127	0.0039	0.74089	89.26208651	1754	19	1965	17
CC02_05 - 49	4.34	0.11	0.2825	0.0044	0.59095	89.11111111	1604	22	1800	32
CC02_05 - 57	5.299	0.082	0.3144	0.0051	0.4294	88.81048387	1762	25	1984	26
CC02_05 - 3	4.779	0.11	0.2981	0.0054	0.67765	88.61360042	1681	27	1897	41
CC02_05 - 5	4.037	0.11	0.272	0.0046	0.436	88.37606838	1551	23	1755	47
CC02_05 - 90	4.79	0.11	0.2958	0.0065	0.79544	87.71008403	1670	32	1904	27
CC02_05 - 59	5.121	0.092	0.3044	0.0045	0.54988	86.95431472	1713	22	1970	22
CC02_05 - 102	4.67	0.07	0.2899	0.0038	0.48693	86.68779715	1641	19	1893	17
CC02_05 - 108	8.25	0.15	0.3812	0.0047	0.53932	86.31840796	2082	22	2412	22
CC02_05 - 71	4.302	0.083	0.2778	0.0029	0.28977	85.91625884	1580	15	1839	32
CC02_05 - 7	5.167	0.11	0.3044	0.0042	0.19663	85.73573574	1713	21	1998	36
CC02_05 - 4	6.66	0.18	0.3444	0.0069	0.80892	85.4390681	1907	33	2232	36
CC02_05 - 86	4.339	0.076	0.2768	0.0035	0.52481	84.58646617	1575	17	1862	22
CC02_05 - 76	4.42	0.15	0.2726	0.0086	0.81758	82.42166755	1552	44	1883	33
CC02_05 - 26	4.271	0.095	0.272	0.0053	0.7544	82.27176221	1550	27	1884	23

CC02_05 - 48	7.54	0.63	0.34	0.0064	0.61017	81.11587983	1890	31	2330	120
CC02_05 - 31	4.736	0.093	0.2817	0.0044	0.79123	80.11022044	1599	22	1996	19
CC02_05 - 89	4.19	0.14	0.2554	0.0029	0.59426	75.82644628	1468	15	1936	47
CC02_05 - 51	10.8	0.29	0.3915	0.0098	0.95142	75.72089712	2127	46	2809	19
CC02_05 - 29	3.806	0.073	0.2387	0.0025	0.17428	73.99463807	1380	13	1865	30
CC02_05 - 84	3.948	0.075	0.2435	0.0036	0.68908	73.39593114	1407	18	1917	20
CC02_05 - 1	7.88	0.21	0.3332	0.0061	0.84572	71.98912199	1853	29	2574	34
CC02_05 - 78	3.975	0.09	0.2413	0.0039	0.68151	71.84765826	1396	20	1943	24
CC02_05 - 58	4.577	0.089	0.2561	0.0035	0.59857	70.84337349	1470	18	2075	22
CC02_05 - 98	3.779	0.072	0.2307	0.0036	0.63168	70.42475092	1343	18	1907	24
CC02_05 - 68	4.502	0.064	0.2518	0.003	0.63098	69.38188788	1448	15	2087	16
CC02_05 - 107	36.2	8.2	0.532	0.051	0.6951	67.65432099	2740	220	4050	240
CC02_05 - 72	3.914	0.085	0.227	0.0058	0.8456	65.21523998	1318	31	2021	22
CC02_05 - 27	4.183	0.082	0.2318	0.0028	-0.20787	63.69668246	1344	15	2110	37
CC02_05 - 101	6.42	0.39	0.277	0.018	0.98392	61.18703631	1567	90	2561	17
CC02_05 - 75	3.22	0.11	0.1992	0.0064	0.86415	60.40268456	1170	34	1937	29
CC02_05 - 112	7.175	0.11	0.269	0.0028	0.42305	55.53145336	1536	14	2766	17
CC02_05 - 82	3.88	0.12	0.2045	0.0031	0.58887	54.79890311	1199	17	2188	42
CC02_05 - 65	34.5	4.2	0.438	0.035	0.99148	53.06308358	2330	160	4391	58
CC02_05 - 25	3.025	0.1	0.1765	0.0053	0.83687	52.37618809	1047	29	1999	27
CC02_05 - 43	2.79	0.13	0.1691	0.0073	0.96994	51.61787365	1005	40	1947	19
CC02_05 - 50	5.52	0.14	0.2174	0.0043	0.44821	47.52623688	1268	23	2668	39
CC02_05 - 63	5.543	0.1	0.2135	0.0061	0.8869	46.36128556	1255	31	2707	22
CC02_05 - 91	4.72	0.26	0.201	0.011	0.97122	46.34433962	1179	58	2544	15
CC02_05 - 33	5.86	0.17	0.227	0.019	0.37941	46.2633452	1300	100	2810	130
CC02_05 - 103	3.969	0.07	0.1862	0.0027	0.43768	45.95158598	1101	15	2396	25
CC02_05 - 56	4.987	0.098	0.2025	0.0038	0.84904	45.36082474	1188	20	2619	16
CC02_05 - 64	4.62	0.21	0.191	0.015	0.90171	42.21635884	1120	84	2653	74
CC02_05 - 83	2.954	0.07	0.1482	0.0025	0.55674	39.18385257	893	14	2279	32
CC02_05 - 17	2.422	0.098	0.1259	0.0052	0.95178	34.40036069	763	30	2218	20
CC02_05 - 87	1.617	0.1	0.0906	0.0047	0.63081	26.45803698	558	28	2109	62
CC02_05 - 9	2	0.15	0.1	0.011	0.98593	25.42726136	610	64	2399	67
CC02_05 - 77	2.66	0.18	0.1031	0.0037	0.85467	23.72372372	632	22	2664	67
CC02_05 - 46	4.734	0.073	0.1259	0.0017	0.62589	23.04098855	764.5	9.9	3318	16

All U–Pb data for Masterton Sandstone

Analysis	207Pb/235U	Error	206Pb/238U	Error	rho	Concordance	206Pb/238U	Error	207Pb/206Pb	Error
CC06_01N - 2	no value	NAN	no value	NAN	NaN	#VALUE!	no value	NAN	no value	NAN
CC06_01N - 49	4.651	0.099	0.3191	0.003	0.35637	103.4782609	1785	15	1725	44
CC06_01N - 68	5.118	0.099	0.3362	0.003	0.31754	103.2614704	1868	14	1809	44
CC06_01N - 48	4.55	0.11	0.3152	0.0036	0.027485	102.9737609	1766	18	1715	50
CC06_01N - 67	4.594	0.081	0.3167	0.0024	0.081656	102.1301094	1774	12	1737	44
CC06_01N - 27	4.687	0.084	0.3178	0.0027	0.16052	101.7734554	1779	13	1748	46
CC06_01N - 28	5.209	0.095	0.3356	0.0031	0.22	101.6348774	1865	15	1835	45
CC06_01N - 15	4.64	0.098	0.3137	0.0029	0.33452	101.6175621	1759	14	1731	47
CC06_01N - 66	11.16	0.18	0.4843	0.0042	0.58624	101.3131715	2546	18	2513	33
CC06_01N - 70	6.53	0.13	0.3753	0.0037	0.25082	100.9336609	2054	17	2035	47
CC06_01N - 33	4.92	0.16	0.3231	0.0048	0.37642	100.5574136	1804	24	1794	63
CC06_01N - 26	4.691	0.082	0.3134	0.0032	0.35512	100.2279202	1759	16	1755	41
CC06_01N - 63	6.62	0.17	0.3778	0.0045	0.30573	100.1940805	2065	21	2061	50
CC06_01N - 41	15.77	0.36	0.5578	0.0079	0.23197	99.72067039	2856	33	2864	47
CC06_01N - 32	4.666	0.095	0.3152	0.0037	0.37561	99.71767363	1766	18	1771	46
CC06_01N - 19	5.26	0.099	0.3326	0.003	0.05134	99.56966111	1851	15	1859	44
CC06_01N - 6	4.92	0.083	0.3224	0.0031	0.30259	99.50276243	1801	15	1810	39
CC06_01N - 39	4.57	0.12	0.3097	0.0034	0.12661	99.37142857	1739	17	1750	53
CC06_01N - 30	5.327	0.091	0.3356	0.0032	0.44397	99.14938862	1865	15	1881	39
CC06_01N - 55	4.702	0.09	0.311	0.0036	0.36595	97.26867336	1745	18	1794	45
CC06_01N - 1	5.069	0.095	0.3236	0.0027	0.44978	97.2027972	1807	13	1859	41
CC06_01N - 65	5.42	0.1	0.3284	0.0031	0.2623	94	1833	15	1950	43
CC06_01N - 14	4.51	0.11	0.2976	0.0032	0.48708	93.90380313	1679	16	1788	51
CC06_01N - 40	5.915	0.11	0.3429	0.0039	0.48759	93.00048948	1900	19	2043	42
CC06_01N - 44	10.54	0.16	0.4436	0.0043	0.43028	92.06225681	2366	19	2570	35
CC06_01N - 21	4.97	0.13	0.3044	0.008	0.83279	88.3324729	1711	40	1937	40
CC06_01N - 37	4.445	0.086	0.283	0.0031	0.19871	86.43702906	1606	16	1858	46
CC06_01N - 38	4.228	0.092	0.2698	0.0036	0.47801	83.24324324	1540	18	1850	45
CC06_01N - 54	4.08	0.15	0.2581	0.0099	0.86774	78.95299145	1478	51	1872	49
CC06_01N - 56	4.117	0.085	0.2588	0.0032	0.42205	78.67374005	1483	17	1885	44
CC06_01N - 22	3.815	0.086	0.2475	0.0045	0.59756	77.74140753	1425	23	1833	48
CC06_01N - 52	7.85	0.18	0.3437	0.0061	0.63076	76.21145374	1903	29	2497	42
CC06_01N - 57	4.27	0.14	0.2567	0.0034	-0.36394	75.1914242	1473	17	1959	75
CC06_01N - 50	8.63	0.22	0.3421	0.0073	0.89843	70.6935123	1896	35	2682	33
CC06_01N - 71	4.633	0.087	0.2506	0.0035	0.59594	67.11690731	1441	18	2147	38
CC06_01N - 69	2.983	0.071	0.1831	0.0034	0.72386	55.31154239	1083	19	1958	41
CC06_01N - 31	3.864	0.075	0.1975	0.0027	0.57162	52.03761755	1162	14	2233	40

CC06_01N - 72	2.823	0.054	0.1605	0.0025	0.56339	47.05593719	959	14	2038	43
CC06_01N - 42	3.442	0.072	0.1702	0.0028	0.85949	44.08181027	1013	15	2298	34
CC06_01N - 17	2.54	0.12	0.1461	0.0075	0.97234	42.73879142	877	42	2052	40
CC06_01N - 16	2.47	0.12	0.1353	0.0067	0.95719	38.2739212	816	38	2132	37
CC06_01N - 58	1.945	0.055	0.1143	0.0033	0.83595	34.59057072	697	19	2015	40
CC06_01N - 43	2.018	0.057	0.1082	0.0029	0.82877	30.86247086	662	17	2145	39
CC06_01N - 8	1.885	0.042	0.1052	0.0019	0.67048	30.7435653	645	11	2098	38
CC06_01N - 29	1.829	0.044	0.0943	0.0027	0.84293	25.83370387	581	16	2249	39
CC06_01N - 18	1.788	0.044	0.0892	0.0021	0.86294	24.04013962	551	12	2292	36
CC06_01N - 53	1.73	0.039	0.0856	0.0017	0.71955	22.99000435	529	10	2301	40
CC06_01N - 45	1.431	0.028	0.0786	0.0011	0.6658	22.96278851	487.5	6.7	2123	39
CC06_01N - 23	1.838	0.03	0.088	0.0011	0.69258	22.94514768	543.8	6.3	2370	34
CC06_01N - 51	1.424	0.048	0.0753	0.0028	0.88784	21.29208371	468	17	2198	41
CC06_01N - 35	1.366	0.041	0.0736	0.0023	0.91076	21.10599078	458	14	2170	37
CC06_01N - 11	1.764	0.068	0.079	0.0035	0.96352	19.7740113	490	21	2478	37
CC06_01N - 60	1.688	0.038	0.0752	0.0011	0.63181	18.91585761	467.6	6.7	2472	40
CC06_01N - 7	1.281	0.025	0.063	0.0013	0.82082	16.95951766	393.8	7.7	2322	36
CC06_01N - 64	1.269	0.056	0.0627	0.0029	0.93428	16.87473095	392	18	2323	39
CC06_01N - 61	1.238	0.041	0.0594	0.0017	0.74752	15.93147752	372	10	2335	41
CC06_01N - 25	1.75	0.1	0.0665	0.003	0.96883	15.37329901	418	19	2719	37
CC06_01N - 10	1.239	0.023	0.05803	0.00073	0.65788	15.21338912	363.6	4.4	2390	35
CC06_01N - 34	1.253	0.034	0.0557	0.0014	0.85728	14.14337789	349.2	8.7	2469	38
CC06_01N - 46	1.13	0.034	0.0533	0.0014	0.88377	14.02515723	334.5	8.7	2385	39
CC06_01N - 59	1.017	0.027	0.0495	0.0017	0.82533	13.34763948	311	10	2330	43
CC06_01N - 36	0.951	0.049	0.0481	0.0031	0.94725	13.11902693	302	19	2302	47
CC06_01N - 3	0.974	0.041	0.0457	0.0018	0.9521	12.04516939	288	11	2391	36
CC06_01N - 20	0.993	0.02	0.0455	0.00094	0.80529	11.79276316	286.8	5.8	2432	34
CC06_01N - 9	0.996	0.056	0.0458	0.003	0.97502	11.750306	288	19	2451	41
CC06_01N - 4	1.057	0.026	0.0462	0.0017	0.90033	11.57978512	291	10	2513	42
CC06_01N - 5	0.969	0.034	0.0439	0.0015	0.87528	11.24594156	277.1	9	2464	40
CC06_01N - 62	0.761	0.014	0.03747	0.0007	0.7768	10.25962787	237.1	4.3	2311	36
CC06_01N - 12	0.939	0.044	0.0402	0.0025	0.97995	9.837335399	254	15	2582	39
CC06_01N - 24	0.674	0.016	0.02752	0.0007	0.83431	6.697282817	175	4.4	2613	35
CC06_01N - 13	0.642	0.027	0.0268	0.0013	0.95434	6.557566423	170.3	8.3	2597	38
CC06_01N - 47	0.55	0.035	0.0218	0.0018	0.94766	5.20639643	140	12	2689	53
CC01_06 - 41	5.562	0.11	0.3498	0.0038	0.40168	103.2	1935	19	1875	35
CC01_06 - 7	5.074	0.13	0.331	0.0046	0.28555	102.6169265	1843	22	1796	48
CC01_06 - 45	4.797	0.11	0.3212	0.0041	0.11412	101.6987542	1796	20	1766	43
CC01_06 - 33	4.764	0.13	0.3198	0.0046	0.1759	101.2450481	1789	23	1767	52
CC01_06 - 8	6.38	0.13	0.3699	0.0041	0.51276	100.4952947	2029	19	2019	34
CC01_06 - 59	4.806	0.097	0.3195	0.0036	0.13786	100.2805836	1787	18	1782	39

CC01_06 - 50	4.724	0.098	0.3163	0.0039	0.22495	100.0564653	1772	19	1771	38
CC01_06 - 22	13.08	0.28	0.5152	0.0062	0.52054	99.92537313	2678	27	2680	34
CC01_06 - 58	4.913	0.1	0.3225	0.0036	0.48824	99.83379501	1802	18	1805	37
CC01_06 - 36	4.966	0.11	0.3252	0.0045	0.44379	99.45205479	1815	22	1825	38
CC01_06 - 63	5.736	0.13	0.3496	0.0046	0.34446	99.43386516	1932	22	1943	39
CC01_06 - 26	5.739	0.13	0.3495	0.0043	0.61006	99.17864476	1932	21	1948	35
CC01_06 - 32	4.664	0.1	0.3128	0.0043	0.27228	99.15206331	1754	21	1769	42
CC01_06 - 53	4.673	0.12	0.3118	0.0049	0.53798	98.92533937	1749	24	1768	40
CC01_06 - 49	4.909	0.12	0.3219	0.0041	0.26538	98.90049478	1799	20	1819	44
CC01_06 - 54	5.826	0.14	0.3518	0.0062	0.60442	98.52941176	1943	30	1972	39
CC01_06 - 23	4.638	0.11	0.3121	0.0053	0.68843	98.26038159	1751	26	1782	39
CC01_06 - 60	5.168	0.12	0.3277	0.0047	0.44305	97.54404698	1827	23	1873	41
CC01_06 - 13	5.424	0.11	0.3336	0.0041	0.29695	95.96690796	1856	20	1934	37
CC01_06 - 56	4.7	0.12	0.3078	0.007	0.78598	94.84366429	1729	35	1823	40
CC01_06 - 39	5.097	0.1	0.32	0.0043	0.564	94.70619375	1789	21	1889	35
CC01_06 - 18	5.111	0.13	0.3192	0.0049	0.65172	93.79926432	1785	24	1903	40
CC01_06 - 42	4.895	0.11	0.3118	0.0051	0.75957	93.62955032	1749	25	1868	35
CC01_06 - 25	8.52	0.2	0.4077	0.0068	0.67384	93.62786746	2204	31	2354	35
CC01_06 - 5	4.382	0.1	0.2907	0.0039	0.33978	92.20852018	1645	19	1784	41
CC01_06 - 29	4.468	0.11	0.2927	0.0039	0.4655	91.43173024	1654	19	1809	38
CC01_06 - 57	4.704	0.11	0.2992	0.006	0.75746	91.33261105	1686	30	1846	37
CC01_06 - 6	4.565	0.1	0.2958	0.0034	0.36504	90.914037	1671	17	1838	40
CC01_06 - 38	4.599	0.097	0.2948	0.0035	0.12475	90.34183397	1665	18	1843	38
CC01_06 - 28	5.65	0.22	0.3222	0.004	0.19155	88.66995074	1800	19	2030	62
CC01_06 - 1	4.583	0.11	0.2889	0.0043	0.41222	87.06070288	1635	21	1878	45
CC01_06 - 46	4.512	0.1	0.2823	0.0053	0.4772	84.67230444	1602	27	1892	43
CC01_06 - 19	4.618	0.11	0.2848	0.0079	0.098709	83.06742151	1614	40	1943	65
CC01_06 - 55	5.72	0.23	0.3043	0.0056	0.21611	80.03740065	1712	28	2139	55
CC01_06 - 11	4.284	0.094	0.2656	0.0029	0.47669	79.75315126	1518.5	15	1904	38
CC01_06 - 65	4.407	0.089	0.2687	0.0032	0.44403	79.19463087	1534	16	1937	36
CC01_06 - 31	4.078	0.084	0.2575	0.0045	-0.10857	78.93048128	1476	23	1870	45
CC01_06 - 34	4.622	0.11	0.2739	0.005	0.3555	78.31084458	1567	25	2001	45
CC01_06 - 43	5.038	0.11	0.2843	0.004	0.56549	77.51081211	1613	20	2081	40
CC01_06 - 37	3.89	0.11	0.245	0.0046	0.65688	75.99569429	1412	24	1858	41
CC01_06 - 3	4.821	0.1	0.2696	0.0054	0.42166	73.69429804	1538	27	2087	40
CC01_06 - 10	4.62	0.14	0.262	0.0049	0.49216	72.63922518	1500	25	2065	47
CC01_06 - 62	3.311	0.11	0.2211	0.0038	0.5491	71.65924276	1287	20	1796	55
CC01_06 - 12	4.32	0.19	0.2506	0.0063	0.40617	70.0729927	1440	32	2055	75
CC01_06 - 30	5.09	0.14	0.2668	0.0051	0.90363	69.3042292	1524	26	2199	37
CC01_06 - 15	3.833	0.11	0.2313	0.004	0.77582	68.38347782	1341	21	1961	40
CC01_06 - 40	4.081	0.097	0.2378	0.0036	0.57121	68.1030213	1375	19	2019	39

CC01_06 - 52	3.242	0.079	0.2106	0.0035	0.68858	67.69230769	1232	19	1820	41
CC01_06 - 27	5.43	0.22	0.269	0.0083	0.85489	66.92844677	1534	42	2292	36
CC01_06 - 2	3.59	0.1	0.2209	0.0053	0.66456	66.59761781	1286	28	1931	43
CC01_06 - 4	4.418	0.11	0.2375	0.0048	0.84196	63.74187558	1373	25	2154	34
CC01_06 - 9	3.993	0.085	0.223	0.0026	0.40603	62.20201053	1299.4	13	2089	37
CC01_06 - 20	3.304	0.071	0.1933	0.0034	0.55392	56.90084704	1142	20	2007	41
CC01_06 - 47	6.711	0.14	0.2659	0.0037	0.78611	56.75877521	1520	19	2678	31
CC01_06 - 24	3.35	0.14	0.1894	0.0077	0.83377	53.47056008	1117	42	2089	54
CC01_06 - 61	2.826	0.075	0.1695	0.0036	0.87898	51.45334013	1009	20	1961	34
CC01_06 - 44	3.759	0.11	0.1935	0.0059	0.91825	50.87092452	1139	32	2239	35
CC01_06 - 51	5.59	0.31	0.216	0.011	0.96502	46.26700993	1258	56	2719	35
CC01_06 - 64	3.54	0.24	0.1706	0.0074	0.95094	43.29632792	1014	40	2342	54
CC01_06 - 21	4.644	0.12	0.1868	0.0028	-0.19556	41.42589118	1104	15	2665	50
CC01_06 - 35	2.485	0.086	0.1328	0.0051	0.92105	37.57604118	803	29	2137	38
CC01_06 - 14	2.068	0.081	0.1211	0.0038	0.82886	36.64843362	737	22	2011	44
CC01_06 - 16	2.87	0.2	0.1395	0.0078	0.69658	34.69640644	840	44	2421	97
CC01_06 - 48	3.06	0.15	0.1098	0.003	0.36174	23.6453202	672	17	2842	73
CC01_06 - 17	0.935	0.036	0.0496	0.0025	0.96533	14.12403803	312	15	2209	45
CC03_08 - 25	5.32	0.14	0.341	0.0048	0.17057	104.5253863	1894	24	1812	41
CC03_08 - 133	4.769	0.089	0.3228	0.0052	0.23704	104.3402778	1803	25	1728	35
CC03_08 - 136	4.98	0.11	0.328	0.0043	0.23407	103.8046564	1828	21	1761	45
CC03_08 - 129	4.849	0.096	0.3235	0.0042	0.26129	102.9059829	1806	20	1755	35
CC03_08 - 42	4.814	0.065	0.3226	0.0038	0.50458	102.7952082	1802	19	1753	22
CC03_08 - 89	5.3	0.1	0.3401	0.004	0.08135	102.7218291	1887	19	1837	37
CC03_08 - 60	5.405	0.068	0.3429	0.0041	0.30183	102.590394	1901	20	1853	23
CC03_08 - 96	5.568	0.084	0.3474	0.0043	0.34281	102.2340426	1922	21	1880	23
CC03_08 - 17	4.57	0.1	0.3121	0.0042	0.26719	102.1586931	1751	20	1714	45
CC03_08 - 13	4.969	0.078	0.3274	0.0042	0.014802	102.0681945	1826	20	1789	33
CC03_08 - 128	5.626	0.077	0.3502	0.0042	0.47369	101.7885324	1935	20	1901	23
CC03_08 - 79	5.359	0.079	0.3403	0.0038	0.32582	101.396348	1888	19	1862	25
CC03_08 - 31	4.8	0.11	0.3194	0.0046	0.34631	101.3620885	1786	23	1762	40
CC03_08 - 53	4.724	0.079	0.3163	0.0041	0.33723	101.2	1771	20	1750	30
CC03_08 - 105	5.22	0.17	0.3352	0.0059	0.78392	101.1950027	1863	29	1841	23
CC03_08 - 73	5.138	0.057	0.3302	0.0039	0.3358	101.1551155	1839	19	1818	20
CC03_08 - 140	5.31	0.057	0.3369	0.0036	0.092557	101.1345219	1872	17	1851	21
CC03_08 - 20	4.813	0.069	0.3204	0.005	0.79217	101.0152284	1791	24	1773	16
CC03_08 - 112	4.798	0.085	0.3192	0.0036	0.11032	100.9609949	1786	18	1769	35
CC03_08 - 84	5.068	0.08	0.3288	0.0042	0.29699	100.8810573	1832	20	1816	30
CC03_08 - 101	14.94	0.19	0.5473	0.0062	0.70034	100.8602151	2814	26	2790	13
CC03_08 - 23	5.276	0.082	0.3347	0.0041	0.21665	100.8125677	1861	20	1846	30
CC03_08 - 87	4.631	0.073	0.3118	0.0036	0.07021	100.8069164	1749	18	1735	32

CC03_08 - 41	4.671	0.07	0.3135	0.0053	0.57478	100.6289308	1760	25	1749	25
CC03_08 - 9	4.73	0.11	0.3165	0.0081	0.90396	100.5107832	1771	39	1762	20
CC03_08 - 35	4.682	0.089	0.3136	0.0042	0.16178	100.4571429	1758	21	1750	34
CC03_08 - 52	4.687	0.079	0.3132	0.0038	0.11972	100.4571429	1758	18	1750	34
CC03_08 - 106	4.789	0.09	0.3183	0.0066	0.85124	100.3937008	1785	31	1778	24
CC03_08 - 77	4.708	0.076	0.3159	0.0057	0.63996	100.340329	1769	28	1763	25
CC03_08 - 61	5.097	0.084	0.3284	0.0037	0.2821	100.3289474	1830	18	1824	29
CC03_08 - 141	4.572	0.056	0.3099	0.0038	0.41201	100.1727116	1740	19	1737	21
CC03_08 - 12	10.41	0.11	0.4676	0.0057	0.56072	100.1214575	2473	25	2470	15
CC03_08 - 7	4.612	0.078	0.3114	0.0036	0.36297	100.1146132	1747	18	1745	28
CC03_08 - 80	5.305	0.059	0.3374	0.0041	0.30933	100.1068376	1874	20	1872	22
CC03_08 - 139	6.266	0.084	0.3661	0.0044	0.22289	100.099552	2011	21	2009	25
CC03_08 - 30	4.579	0.084	0.3108	0.0039	0.33309	100.0573394	1745	19	1744	35
CC03_08 - 8	4.642	0.067	0.3131	0.0045	0.45669	100.0570125	1755	22	1754	28
CC03_08 - 68	5.23	0.093	0.3331	0.0058	0.59784	100.0539957	1853	28	1852	28
CC03_08 - 29	5.142	0.091	0.33	0.0047	0.38508	99.89130435	1838	23	1840	28
CC03_08 - 76	4.612	0.063	0.3106	0.0035	0.1994	99.77142857	1746	16	1750	27
CC03_08 - 116	10.6	0.098	0.4708	0.0046	0.6486	99.75932611	2487	20	2493	12
CC03_08 - 153	4.811	0.051	0.3202	0.0041	0.47383	99.66611018	1791	20	1797	21
CC03_08 - 148	4.469	0.066	0.3045	0.0034	0.15576	99.65116279	1714	17	1720	29
CC03_08 - 118	5.528	0.088	0.3426	0.0049	0.56643	99.47616553	1899	24	1909	22
CC03_08 - 109	5.075	0.064	0.3277	0.0043	0.4946	99.18566775	1827	21	1842	22
CC03_08 - 149	5.258	0.089	0.3315	0.004	0.4291	99.14024718	1845	19	1861	26
CC03_08 - 146	5.19	0.074	0.3298	0.0039	0.49346	99.13653535	1837	19	1853	23
CC03_08 - 98	4.573	0.074	0.3092	0.004	0.49199	99.08727895	1737	20	1753	27
CC03_08 - 43	4.464	0.054	0.3053	0.0033	0.2188	98.90616005	1718	16	1737	23
CC03_08 - 150	5.163	0.08	0.3299	0.0037	0.49051	98.65807837	1838	18	1863	24
CC03_08 - 137	4.999	0.083	0.3221	0.0051	0.57277	98.63013699	1800	25	1825	28
CC03_08 - 36	4.629	0.093	0.3101	0.004	0.12005	98.36158192	1741	20	1770	36
CC03_08 - 154	9.89	0.16	0.4481	0.0063	0.58301	97.66775777	2387	28	2444	26
CC03_08 - 50	4.662	0.061	0.3074	0.0046	0.6619	97.40698985	1728	23	1774	21
CC03_08 - 86	4.589	0.078	0.3052	0.0047	0.61529	96.78510998	1716	23	1773	23
CC03_08 - 138	10.44	0.15	0.4565	0.0058	0.69808	96.57370518	2424	26	2510	16
CC03_08 - 132	9.5	0.13	0.4342	0.0055	0.50812	96	2328	24	2425	22
CC03_08 - 64	9.93	0.35	0.442	0.0091	0.94142	95.97069597	2358	41	2457	25
CC03_08 - 57	4.438	0.058	0.2985	0.0039	0.58796	95.95902106	1686	20	1757	22
CC03_08 - 130	4.457	0.064	0.298	0.0035	0.38174	95.18686297	1681	18	1766	25
CC03_08 - 72	4.6	0.11	0.3015	0.0068	0.89679	95.07002801	1697	33	1785	19
CC03_08 - 121	5.128	0.073	0.321	0.0056	0.65428	94.12381952	1794	27	1906	19
CC03_08 - 83	4.673	0.074	0.303	0.0039	0.31733	93.53070175	1706	19	1824	30
CC03_08 - 127	5.28	0.15	0.3232	0.0095	0.83948	93.03405573	1803	46	1938	33

CC03_08 - 117	4.5	0.07	0.2948	0.0043	0.54549	92.96482412	1665	21	1791	25
CC03_08 - 124	4.68	0.054	0.3016	0.0042	0.41493	92.85324604	1702	20	1833	23
CC03_08 - 27	4.59	0.12	0.2977	0.0088	0.76387	92.66004415	1679	44	1812	31
CC03_08 - 97	4.842	0.059	0.3071	0.0035	0.36097	92.1516284	1726	17	1873	22
CC03_08 - 100	4.361	0.088	0.29	0.0065	0.72771	91.72259508	1640	33	1788	25
CC03_08 - 88	4.453	0.055	0.2902	0.0043	0.45103	90.9342178	1645	22	1809	23
CC03_08 - 65	4.427	0.075	0.2884	0.0049	0.63419	90.47091413	1633	25	1805	26
CC03_08 - 111	4.33	0.06	0.2849	0.0032	0.11238	90.02785515	1616	16	1795	27
CC03_08 - 113	4.34	0.062	0.2836	0.0033	0.14269	89.34517203	1610	17	1802	29
CC03_08 - 90	5.439	0.096	0.3192	0.0059	0.81398	89.11632551	1785	29	2003	18
CC03_08 - 115	5.102	0.079	0.3073	0.0039	0.49781	89.06652914	1727	19	1939	24
CC03_08 - 147	4.255	0.082	0.281	0.0053	0.68016	88.9632107	1596	26	1794	26
CC03_08 - 78	4.176	0.067	0.277	0.0041	0.57807	88.05803571	1578	20	1792	24
CC03_08 - 120	4.766	0.077	0.2951	0.0057	0.84421	87.59200841	1666	28	1902	16
CC03_08 - 158	4.666	0.06	0.2907	0.0036	0.43985	87.1754107	1645	18	1887	22
CC03_08 - 34	4.35	0.11	0.2772	0.0094	0.70716	86.73637865	1576	47	1817	42
CC03_08 - 10	4.019	0.078	0.2695	0.0038	0.55552	86.61417323	1540	19	1778	24
CC03_08 - 143	5.427	0.092	0.3122	0.0052	0.80518	85.04128218	1751	25	2059	18
CC03_08 - 94	4.301	0.062	0.2764	0.0044	0.7913	84.79784367	1573	22	1855	19
CC03_08 - 67	4.18	0.12	0.2709	0.0077	0.78478	84.3715847	1544	39	1830	32
CC03_08 - 134	4.11	0.076	0.268	0.0044	0.46723	83.88157895	1530	22	1824	32
CC03_08 - 126	4.277	0.051	0.2721	0.0036	0.63661	83.61185984	1551	18	1855	18
CC03_08 - 85	4.47	0.13	0.2772	0.0089	0.86926	82.89473684	1575	45	1900	34
CC03_08 - 11	8.48	0.12	0.3721	0.0055	0.73673	81.04133545	2039	26	2516	17
CC03_08 - 107	3.92	0.16	0.254	0.011	0.90344	80.93922652	1465	56	1810	32
CC03_08 - 51	8.02	0.45	0.356	0.016	0.97859	79.20551277	1954	77	2467	31
CC03_08 - 74	3.864	0.081	0.2486	0.0058	0.68789	78.9618995	1430	30	1811	26
CC03_08 - 22	3.884	0.056	0.2473	0.0038	0.67044	77.77170945	1424	19	1831	19
CC03_08 - 104	3.677	0.072	0.2401	0.0042	0.80962	77.22717149	1387	22	1796	22
CC03_08 - 46	3.92	0.11	0.2498	0.0076	0.8705	77.19203873	1435	39	1859	23
CC03_08 - 24	3.753	0.055	0.2435	0.0035	0.52825	76.92728267	1407	18	1829	25
CC03_08 - 155	4.846	0.084	0.2772	0.0051	0.81004	76.91556857	1576	26	2049	18
CC03_08 - 110	3.694	0.099	0.2416	0.0073	0.87239	76.7964893	1400	36	1823	26
CC03_08 - 125	3.893	0.051	0.2473	0.0033	0.40026	76.64155005	1424	17	1858	25
CC03_08 - 48	5.32	0.24	0.286	0.014	0.95132	75.79588015	1619	74	2136	31
CC03_08 - 99	3.572	0.053	0.2345	0.003	0.40965	75.48638132	1358	15	1799	25
CC03_08 - 142	4.49	0.16	0.2647	0.0079	0.9063	74.74048443	1512	40	2023	23
CC03_08 - 69	3.93	0.064	0.2428	0.0047	0.63979	74.32360743	1401	24	1885	28
CC03_08 - 19	3.66	0.11	0.2353	0.0075	0.89689	73.64718615	1361	40	1848	24
CC03_08 - 152	4.344	0.075	0.2564	0.0044	0.73255	73.51324338	1471	23	2001	22
CC03_08 - 26	3.5	0.12	0.2273	0.0069	0.87846	71.84095861	1319	36	1836	29

CC03_08 - 151	3.79	0.11	0.236	0.011	0.81856	71.82727751	1364	55	1899	44
CC03_08 - 119	3.63	0.15	0.2306	0.0095	0.94256	71.79763186	1334	50	1858	24
CC03_08 - 33	4.18	0.089	0.245	0.0062	0.68779	70.70605909	1412	32	1997	30
CC03_08 - 95	3.97	0.14	0.2371	0.0086	0.93405	69.79113602	1370	45	1963	21
CC03_08 - 62	4.429	0.075	0.2509	0.0049	0.83015	69.17545542	1443	26	2086	24
CC03_08 - 37	3.51	0.12	0.2198	0.0083	0.93858	67.13910761	1279	44	1905	23
CC03_08 - 14	3.699	0.096	0.2223	0.0059	0.76474	65.5347187	1293	31	1973	25
CC03_08 - 66	3.08	0.28	0.203	0.019	0.97875	65.08549366	1180	100	1813	24
CC03_08 - 32	4.233	0.066	0.2355	0.0044	0.79989	64.84300666	1363	23	2102	19
CC03_08 - 75	6.54	0.26	0.283	0.012	0.98701	63.65805169	1601	60	2515	10
CC03_08 - 157	3.766	0.057	0.219	0.0029	0.57341	63.51888668	1278	15	2012	20
CC03_08 - 28	3.99	0.11	0.225	0.012	0.91924	62.93975904	1306	61	2075	48
CC03_08 - 81	3.474	0.049	0.2084	0.003	0.44211	62.75720165	1220	16	1944	25
CC03_08 - 5	3.96	0.16	0.22	0.007	0.94193	61.88405797	1281	37	2070	26
CC03_08 - 114	5.68	0.18	0.2569	0.0078	0.8576	61.56716418	1485	42	2412	26
CC03_08 - 159	3.113	0.086	0.1958	0.0054	0.7892	61.50560598	1152	29	1873	29
CC03_08 - 3	2.985	0.064	0.1913	0.0046	0.77749	61.4044638	1128	25	1837	25
CC03_08 - 102	3.941	0.061	0.2185	0.0034	0.55121	60.60894386	1274	18	2102	13
CC03_08 - 93	4.106	0.083	0.2213	0.0041	0.80248	59.42830798	1289	22	2169	19
CC03_08 - 2	3.014	0.051	0.19	0.003	0.60334	59.375	1121	16	1888	27
CC03_08 - 59	3.28	0.1	0.1959	0.0076	0.93654	58.80551302	1152	41	1959	22
CC03_08 - 4	3.49	0.078	0.2014	0.0045	0.94323	58.45697329	1182	24	2022	13
CC03_08 - 108	3.006	0.041	0.1872	0.0024	0.69039	58.21052632	1106	13	1900	16
CC03_08 - 47	3.611	0.097	0.2041	0.0044	0.95838	58.16326531	1197	24	2058	16
CC03_08 - 122	3.025	0.069	0.1866	0.005	0.88154	57.54569191	1102	27	1915	23
CC03_08 - 55	3.43	0.11	0.1979	0.0075	0.94491	57.50861645	1168	40	2031	18
CC03_08 - 6	3.14	0.1	0.1892	0.0065	0.961	57.31895223	1116	35	1947	18
CC03_08 - 18	4.66	0.21	0.223	0.011	0.97464	54.76493011	1293	56	2361	17
CC03_08 - 63	3.55	0.099	0.197	0.0093	0.8427	54.67863894	1157	50	2116	48
CC03_08 - 92	3.7	0.2	0.1945	0.0085	0.97871	52.97098111	1150	47	2171	26
CC03_08 - 1	2.65	0.18	0.165	0.011	0.9754	52.71359484	981	63	1861	24
CC03_08 - 54	2.716	0.037	0.1661	0.0023	0.52414	52.10304942	991	13	1902	17
CC03_08 - 131	3.084	0.045	0.1744	0.0034	0.75582	50.46273746	1036	18	2053	23
CC03_08 - 156	4.61	0.34	0.21	0.014	0.98285	50.20525452	1223	74	2436	25
CC03_08 - 39	3.711	0.071	0.1836	0.0034	0.86386	47.48798602	1087	18	2289	17
CC03_08 - 123	3.547	0.04	0.1785	0.0023	0.58187	46.87915007	1059	13	2259	16
CC03_08 - 145	5.63	0.12	0.2025	0.003	0.66718	42.17807733	1189	16	2819	22
CC03_08 - 49	2.39	0.13	0.1388	0.0085	0.97718	41.2142152	835	47	2026	19
CC03_08 - 82	2.766	0.058	0.1468	0.0032	0.87534	40.7475773	883	18	2167	17
CC03_08 - 103	2.85	0.051	0.1473	0.0029	0.86166	39.72172352	885	16	2228	15
CC03_08 - 58	2.464	0.054	0.1349	0.0033	0.92458	38.33177132	818	18	2134	15

CC03_08 - 15	1.987	0.049	0.1183	0.0042	0.85145	36.29032258	720	24	1984	29
CC03_08 - 71	2.86	0.053	0.1369	0.0022	0.38682	35.14662133	827	13	2353	35
CC03_08 - 16	2.4	0.054	0.1263	0.0046	0.6518	35.07326007	766	26	2184	51
CC03_08 - 70	4.64	0.16	0.1646	0.0061	0.91197	34.60183228	982	34	2838	24
CC03_08 - 38	1.917	0.061	0.1126	0.0036	0.94582	34.59214502	687	21	1986	18
CC03_08 - 45	1.673	0.054	0.103	0.0033	0.97362	32.69430052	631	19	1930	12
CC03_08 - 91	2.03	0.039	0.1107	0.0024	0.88593	31.84383819	677	14	2126	14
CC03_08 - 56	0.2846	0.004	0.03311	0.00059	0.85118	31.15727003	210	3.7	674	22
CC03_08 - 44	1.75	0.025	0.0972	0.0018	0.66948	28.89855072	598.2	11	2070	18
CC03_08 - 40	2.234	0.047	0.1086	0.0022	0.90579	28.44311377	665	13	2338	14
CC03_08 - 135	1.314	0.018	0.0788	0.0014	0.62892	24.88040712	488.9	8.3	1965	23
CC03_08 - 21	2.084	0.034	0.0795	0.0015	0.1433	18.10275229	493.3	9.1	2725	36
CC03_08 - 144	1.03	0.044	0.0556	0.0024	0.98181	16.27689429	348	14	2138	12
CC03_09 - 27	no value	NAN	no value	NAN	NaN	#VALUE!	no value	NAN	no value	NAN
CC03_09 - 180	4.671	0.07	0.3226	0.0029	0.17254	105.5588063	1804	14	1709	28
CC03_09 - 168	5.461	0.056	0.3509	0.0026	0.31899	105.0379198	1939	12	1846	21
CC03_09 - 170	5.403	0.05	0.346	0.0021	0.45841	104.1326808	1915	10	1839	17
CC03_09 - 43	4.901	0.079	0.3289	0.0026	0.38978	103.559322	1833	13	1770	28
CC03_09 - 181	4.7	0.056	0.3204	0.0022	0.44341	103.2276657	1791	11	1735	18
CC03_09 - 202	5.345	0.057	0.3416	0.0036	0.23944	102.2678186	1894	17	1852	21
CC03_09 - 176	5.293	0.066	0.3386	0.0032	0.25595	102.062975	1880	15	1842	24
CC03_09 - 187	4.879	0.074	0.3239	0.0042	0.37761	101.8018018	1808	20	1776	28
CC03_09 - 129	4.72	0.11	0.3177	0.0039	0.17785	101.7744705	1778	19	1747	43
CC03_09 - 182	4.78	0.094	0.3197	0.0034	0.11904	101.6467916	1790	17	1761	39
CC03_09 - 59	5.757	0.059	0.3533	0.0023	0.38727	101.5096304	1950	11	1921	19
CC03_09 - 254	4.613	0.05	0.3129	0.0039	0.4458	101.5037594	1755	19	1729	19
CC03_09 - 19	5.46	0.091	0.3425	0.003	0.088425	101.3881474	1899	14	1873	32
CC03_09 - 222	4.718	0.066	0.3172	0.0038	0.27916	101.3120365	1776	19	1753	28
CC03_09 - 102	4.671	0.05	0.3149	0.0023	0.44888	101.0882016	1765	11	1746	18
CC03_09 - 198	4.675	0.059	0.315	0.0043	0.72607	101.0882016	1765	21	1746	16
CC03_09 - 131	10.88	0.18	0.4781	0.0042	0.26098	101.083902	2518	18	2491	29
CC03_09 - 185	5.839	0.069	0.3557	0.0026	0.53492	101.0819165	1962	12	1941	19
CC03_09 - 140	4.724	0.055	0.3162	0.0026	0.42032	101.0268112	1771	13	1753	19
CC03_09 - 148	5.477	0.086	0.3431	0.003	0.40334	100.8488064	1901	14	1885	26
CC03_09 - 24	4.768	0.096	0.3173	0.0045	0.81535	100.7373795	1776	22	1763	20
CC03_09 - 120	5.42	0.1	0.3407	0.0042	0.38216	100.6925946	1890	20	1877	33
CC03_09 - 244	4.566	0.066	0.3104	0.0036	0.29533	100.6351039	1743	18	1732	23
CC03_09 - 235	4.748	0.079	0.3163	0.0039	0.33795	100.625	1771	19	1760	27
CC03_09 - 126	4.728	0.057	0.3172	0.0027	0.35586	100.6232295	1776	13	1765	22
CC03_09 - 259	5.331	0.073	0.3374	0.0056	0.7713	100.5904455	1874	27	1863	19
CC03_09 - 12	11.03	0.19	0.4787	0.0058	0.78347	100.5183413	2521	25	2508	16

CC03_09 - 218	4.78	0.11	0.3188	0.0041	0.2	100.5073281	1783	20	1774	39
CC03_09 - 50	5.207	0.081	0.3327	0.003	0.34726	100.4880694	1853	15	1844	28
CC03_09 - 241	5.319	0.069	0.3362	0.0037	0.012639	100.4841313	1868	18	1859	27
CC03_09 - 2	5.437	0.076	0.3405	0.0031	0.4168	100.4787234	1889	15	1880	28
CC03_09 - 266	5.95	0.11	0.3567	0.0055	0.38382	100.4085802	1966	26	1958	35
CC03_09 - 263	4.674	0.073	0.3137	0.004	0.4697	100.3995434	1759	19	1752	25
CC03_09 - 175	4.591	0.078	0.3097	0.0036	0.5344	100.3462204	1739	17	1733	27
CC03_09 - 111	5.053	0.068	0.3284	0.0029	0.32342	100.3289474	1830	14	1824	24
CC03_09 - 80	5.417	0.076	0.3394	0.0042	0.70882	100.319659	1883	20	1877	18
CC03_09 - 249	5.82	0.21	0.3537	0.0076	0.38634	100.2562788	1956	37	1951	57
CC03_09 - 37	4.716	0.097	0.3171	0.0034	0.24133	100.1693002	1775	17	1772	38
CC03_09 - 164	4.775	0.064	0.3182	0.0032	0.55979	100.1124227	1781	16	1779	20
CC03_09 - 58	4.562	0.062	0.3091	0.0025	0.076936	99.8849252	1736	12	1738	28
CC03_09 - 99	5.096	0.06	0.3291	0.0027	0.20633	99.78237214	1834	13	1838	24
CC03_09 - 66	4.608	0.096	0.3137	0.0038	0.2585	99.77311401	1759	19	1763	38
CC03_09 - 84	11.35	0.21	0.4832	0.0071	0.44748	99.72516686	2540	31	2547	31
CC03_09 - 228	4.611	0.052	0.3106	0.0033	0.37148	99.71412236	1744	16	1749	21
CC03_09 - 144	8.77	0.11	0.432	0.0048	0.61462	99.65546942	2314	21	2322	17
CC03_09 - 123	4.938	0.066	0.3231	0.0026	0.40848	99.61368653	1805	13	1812	23
CC03_09 - 121	5.24	0.1	0.3333	0.0038	0.11835	99.57035446	1854	18	1862	41
CC03_09 - 46	4.854	0.061	0.3213	0.0032	0.48443	99.55654102	1796	16	1804	21
CC03_09 - 60	4.837	0.076	0.3194	0.003	0.15294	99.55406912	1786	14	1794	33
CC03_09 - 151	5.02	0.11	0.3251	0.0037	0.37104	99.50630828	1814	18	1823	35
CC03_09 - 267	5.895	0.091	0.3543	0.0044	0.37226	99.4404883	1955	21	1966	26
CC03_09 - 55	5.55	0.11	0.3448	0.004	0.22951	99.37532535	1909	19	1921	37
CC03_09 - 68	5.369	0.059	0.3374	0.0024	0.44401	99.36373277	1874	11	1886	20
CC03_09 - 230	4.569	0.065	0.3089	0.0035	0.38184	99.31310819	1735	17	1747	22
CC03_09 - 30	5.089	0.076	0.3284	0.0041	0.58562	99.29462832	1830	20	1843	23
CC03_09 - 209	4.854	0.069	0.3182	0.0054	0.40993	99.27495817	1780	26	1793	23
CC03_09 - 154	4.936	0.067	0.3236	0.0045	0.68351	99.17672887	1807	22	1822	23
CC03_09 - 81	5.03	0.09	0.3262	0.004	0.32249	99.12854031	1820	20	1836	35
CC03_09 - 113	5.32	0.1	0.3323	0.0042	0.14245	98.93276414	1854	19	1874	39
CC03_09 - 92	4.64	0.099	0.3128	0.0075	0.80676	98.87260428	1754	37	1774	29
CC03_09 - 171	4.473	0.083	0.3052	0.0031	0.15276	98.84858952	1717	15	1737	34
CC03_09 - 221	4.68	0.064	0.3114	0.004	0.27946	98.81288864	1748	20	1769	31
CC03_09 - 82	4.699	0.078	0.3125	0.0038	0.41561	98.75986471	1752	19	1774	29
CC03_09 - 232	5.004	0.079	0.3242	0.0042	0.38861	98.7452264	1810	20	1833	25
CC03_09 - 77	5.021	0.084	0.3246	0.003	0.132	98.53181077	1812	14	1839	35
CC03_09 - 203	4.577	0.093	0.3093	0.0043	0.51537	98.52524107	1737	21	1763	34
CC03_09 - 72	4.689	0.083	0.3118	0.0034	0.35293	98.36895388	1749	17	1778	30
CC03_09 - 48	4.535	0.082	0.306	0.004	0.3434	98.34285714	1721	20	1750	36

CC03_09 - 118	4.862	0.084	0.3187	0.0037	0.54484	98.2369146	1783	18	1815	27
CC03_09 - 262	4.947	0.08	0.3184	0.004	0.38263	98.07374794	1782	20	1817	27
CC03_09 - 135	4.511	0.065	0.3039	0.0033	0.5947	97.88208357	1710	16	1747	22
CC03_09 - 4	4.783	0.077	0.3134	0.0025	0.2136	97.61111111	1757	12	1800	30
CC03_09 - 38	4.721	0.08	0.3135	0.0043	0.52592	97.39467849	1757	21	1804	27
CC03_09 - 70	4.7	0.07	0.3121	0.0025	0.15617	97.27777778	1751	12	1800	30
CC03_09 - 128	4.427	0.091	0.3033	0.0042	0.23581	97.2095672	1707	21	1756	41
CC03_09 - 184	5.337	0.066	0.3303	0.0028	0.54609	97.2002113	1840	13	1893	18
CC03_09 - 127	4.573	0.064	0.3043	0.0027	0.48554	96.94397284	1713	13	1767	23
CC03_09 - 226	4.574	0.056	0.3039	0.0037	0.32249	96.71945701	1710	18	1768	24
CC03_09 - 145	4.652	0.087	0.3057	0.0045	0.61293	96.62731872	1719	22	1779	31
CC03_09 - 152	12.46	0.17	0.4942	0.0043	0.47929	96.49645919	2589	19	2683	18
CC03_09 - 174	4.855	0.085	0.3136	0.0029	0.30571	96.22331691	1758	14	1827	34
CC03_09 - 160	5.04	0.12	0.3241	0.0072	0.8232	96.1722488	1809	35	1881	30
CC03_09 - 10	5.159	0.084	0.3237	0.0031	0.2774	95.76719577	1810	15	1890	30
CC03_09 - 177	4.94	0.15	0.3175	0.0065	0.64183	95.33261803	1777	32	1864	42
CC03_09 - 116	4.553	0.065	0.3012	0.0029	0.53288	95.28354857	1697	14	1781	22
CC03_09 - 238	10.27	0.15	0.4468	0.0082	0.82975	95.27622098	2380	37	2498	18
CC03_09 - 197	5.202	0.06	0.3223	0.0036	0.27415	94.98945148	1801	17	1896	23
CC03_09 - 49	4.417	0.065	0.2953	0.004	0.63601	94.61145774	1668	20	1763	21
CC03_09 - 101	10.17	0.12	0.4445	0.0044	0.48113	94.08495435	2370	20	2519	19
CC03_09 - 147	4.845	0.066	0.3094	0.0037	0.27063	94.04761905	1738	18	1848	31
CC03_09 - 97	4.381	0.061	0.2915	0.003	0.37245	92.79684862	1649	15	1777	28
CC03_09 - 9	5.211	0.088	0.3194	0.0034	0.67269	92.68292683	1786	17	1927	20
CC03_09 - 243	4.424	0.065	0.2914	0.0038	0.50857	92.59259259	1650	18	1782	22
CC03_09 - 61	5.561	0.067	0.3309	0.0031	0.54585	92.56281407	1842	15	1990	18
CC03_09 - 67	4.974	0.05	0.3128	0.004	0.71611	92.26722777	1754	20	1901	18
CC03_09 - 172	4.978	0.092	0.3114	0.0046	0.74811	92.23864836	1747	23	1894	24
CC03_09 - 210	4.547	0.059	0.2966	0.0039	0.52276	92.12988442	1674	19	1817	22
CC03_09 - 250	5.401	0.078	0.3225	0.0043	0.55989	91.89189189	1802	21	1961	24
CC03_09 - 150	4.772	0.078	0.3027	0.005	0.82209	91.85983827	1704	25	1855	17
CC03_09 - 134	4.28	0.13	0.2873	0.0068	0.76563	91.81715576	1627	34	1772	34
CC03_09 - 216	5.773	0.097	0.3325	0.0054	0.58679	91.81141439	1850	26	2015	27
CC03_09 - 208	4.261	0.052	0.2865	0.004	0.47513	91.79864253	1623	20	1768	22
CC03_09 - 157	4.721	0.094	0.3033	0.0076	0.80451	91.76976869	1706	38	1859	25
CC03_09 - 110	4.48	0.1	0.2921	0.0049	0.54917	91.31637168	1651	24	1808	27
CC03_09 - 44	4.435	0.083	0.2901	0.0058	0.81015	91.21734297	1641	29	1799	20
CC03_09 - 88	5.76	0.088	0.3333	0.0048	0.71176	91.2125675	1858	22	2037	19
CC03_09 - 256	4.376	0.079	0.2903	0.005	0.53217	91.17157135	1642	25	1801	29
CC03_09 - 64	5.998	0.071	0.3376	0.0031	0.69272	90.66731141	1875	15	2068	15
CC03_09 - 192	4.185	0.041	0.279	0.0029	0.058622	90.65142857	1586.4	15	1750	21

CC03_09 - 91	4.518	0.061	0.2939	0.0032	0.49838	90.61647572	1661	16	1833	20
CC03_09 - 193	8.6	0.12	0.3973	0.0064	0.63454	90.36043588	2156	29	2386	20
CC03_09 - 41	4.383	0.058	0.2875	0.0037	0.59481	90.29933481	1629	18	1804	22
CC03_09 - 117	4.436	0.069	0.2888	0.0029	0.48887	90.29233315	1637	14	1813	24
CC03_09 - 234	9.38	0.13	0.4128	0.0054	0.61208	89.65378422	2227	25	2484	17
CC03_09 - 31	4.23	0.12	0.2787	0.0079	0.92391	89.26966292	1589	39	1780	21
CC03_09 - 252	4.53	0.11	0.2883	0.007	0.8571	89.25845147	1637	34	1834	22
CC03_09 - 231	5.223	0.088	0.3114	0.006	0.72126	88.90585242	1747	29	1965	23
CC03_09 - 255	4.353	0.066	0.2835	0.0034	0.44818	88.69900772	1609	17	1814	27
CC03_09 - 223	9.27	0.16	0.4082	0.006	0.76583	88.48776574	2206	27	2493	21
CC03_09 - 251	4.428	0.051	0.2851	0.0048	0.36355	88.45101259	1616	24	1827	29
CC03_09 - 178	4.176	0.091	0.2745	0.0057	0.72805	88.05633803	1563	29	1775	28
CC03_09 - 233	4.48	0.062	0.2855	0.004	0.68028	87.46623447	1619	20	1851	20
CC03_09 - 260	4.638	0.049	0.2911	0.0032	0.2148	87.42038217	1647	16	1884	23
CC03_09 - 213	5.324	0.099	0.3127	0.0056	0.84542	87.38783649	1753	28	2006	17
CC03_09 - 205	4.207	0.093	0.2758	0.004	0.40155	87.27070595	1570	20	1799	35
CC03_09 - 42	4.38	0.11	0.2821	0.0075	0.90245	86.81497558	1600	38	1843	20
CC03_09 - 18	4.585	0.077	0.2879	0.0051	0.78235	86.56399363	1630	26	1883	21
CC03_09 - 32	4.114	0.055	0.272	0.0027	0.18925	86.31051753	1551	14	1797	31
CC03_09 - 96	4.734	0.073	0.2899	0.0031	0.34874	85.73667712	1641	15	1914	29
CC03_09 - 137	4.119	0.077	0.27	0.0068	0.82222	85.65072303	1540	35	1798	29
CC03_09 - 188	4.039	0.094	0.2662	0.0061	0.65111	85.63380282	1520	31	1775	33
CC03_09 - 248	4.192	0.046	0.2719	0.0034	0.58024	84.93150685	1550	17	1825	19
CC03_09 - 76	4.861	0.09	0.2934	0.0043	0.61595	84.76482618	1658	21	1956	27
CC03_09 - 201	4.227	0.081	0.2714	0.0045	0.71163	84.13043478	1548	23	1840	24
CC03_09 - 112	4.096	0.091	0.2661	0.006	0.83444	83.47062054	1520	31	1821	21
CC03_09 - 104	3.774	0.069	0.2546	0.0031	0.67773	82.92682927	1462	16	1763	25
CC03_09 - 114	4.799	0.095	0.2887	0.0062	0.80544	82.73417722	1634	31	1975	25
CC03_09 - 206	4.183	0.057	0.267	0.003	0.34901	82.67460747	1527	16	1847	23
CC03_09 - 257	4.228	0.041	0.2681	0.0033	0.3008	82.57820928	1531	17	1854	18
CC03_09 - 130	3.876	0.055	0.2563	0.0035	0.60577	82.22470654	1471	18	1789	21
CC03_09 - 11	8.21	0.17	0.3689	0.0057	0.67372	81.87702265	2024	27	2472	23
CC03_09 - 108	4.368	0.087	0.2714	0.0062	0.38337	81.72722486	1552	32	1899	40
CC03_09 - 186	3.862	0.058	0.2559	0.0024	0.53304	81.70189099	1469	12	1798	23
CC03_09 - 132	4.47	0.14	0.2734	0.0086	0.8785	81.50078166	1564	45	1919	26
CC03_09 - 196	4.268	0.079	0.2691	0.0058	0.69355	81.31286395	1536	30	1889	27
CC03_09 - 28	4.216	0.071	0.2671	0.0056	0.65364	81.20340788	1525	29	1878	28
CC03_09 - 149	4.66	0.11	0.2816	0.0056	0.80027	81.04409529	1599	28	1973	25
CC03_09 - 78	4.037	0.059	0.2587	0.0029	0.3394	80.59782609	1483	15	1840	24
CC03_09 - 215	3.73	0.11	0.2493	0.0067	0.86482	80.29115342	1434	35	1786	26
CC03_09 - 189	3.9	0.12	0.2531	0.0075	0.88858	80.12081274	1459	37	1821	23

CC03_09 - 239	3.969	0.094	0.254	0.0056	0.87509	79.62861824	1458	29	1831	27
CC03_09 - 124	4.25	0.14	0.2644	0.0077	0.91137	79.61011591	1511	39	1898	21
CC03_09 - 90	4.28	0.1	0.2662	0.0071	0.90655	79.12545549	1520	36	1921	21
CC03_09 - 224	3.935	0.065	0.2513	0.0053	0.67544	79.04814004	1445	28	1828	25
CC03_09 - 258	4.29	0.13	0.2642	0.0083	0.91253	79.0052356	1509	43	1910	20
CC03_09 - 47	4.04	0.11	0.2552	0.007	0.93614	78.45659164	1464	36	1866	18
CC03_09 - 89	4.17	0.12	0.26	0.0058	0.85416	78.28601472	1489	30	1902	31
CC03_09 - 20	3.681	0.077	0.2429	0.0027	0.43813	78.05013928	1401	14	1795	35
CC03_09 - 74	4.111	0.064	0.2582	0.0038	0.78165	77.93575566	1480	19	1899	19
CC03_09 - 13	4.69	0.25	0.277	0.016	0.98492	77.86069652	1565	84	2010	22
CC03_09 - 236	3.73	0.15	0.244	0.0083	0.90984	77.67955801	1406	44	1810	31
CC03_09 - 5	4.04	0.11	0.2524	0.0064	0.84135	77.54010695	1450	33	1870	28
CC03_09 - 65	3.771	0.07	0.2439	0.0044	0.73904	76.92728267	1407	23	1829	29
CC03_09 - 53	9.44	0.27	0.3753	0.0099	0.97394	76.51291994	2052	47	2681.9	9.6
CC03_09 - 261	4.16	0.15	0.2563	0.0058	0.51575	76.4033264	1470	30	1924	50
CC03_09 - 133	4.569	0.079	0.2672	0.003	0.60162	76.07178465	1526	15	2006	25
CC03_09 - 173	3.663	0.077	0.2393	0.0062	0.7651	75.64313082	1382	32	1827	31
CC03_09 - 159	3.835	0.063	0.2443	0.0035	0.82157	75.34759358	1409	18	1870	20
CC03_09 - 242	4.402	0.068	0.2627	0.004	0.69442	75.03744383	1503	21	2003	19
CC03_09 - 212	3.996	0.096	0.2476	0.0063	0.81738	74.76390346	1425	32	1906	25
CC03_09 - 87	3.903	0.064	0.2446	0.0035	0.74253	74.68220339	1410	18	1888	19
CC03_09 - 237	4.57	0.22	0.264	0.016	0.95949	74.17447018	1505	81	2029	32
CC03_09 - 169	4.044	0.077	0.2479	0.0047	0.76934	73.89953392	1427	24	1931	28
CC03_09 - 75	4.313	0.074	0.2552	0.0035	0.73696	73.65510307	1465	18	1989	22
CC03_09 - 98	3.552	0.064	0.2301	0.0043	0.73005	73.51321586	1335	23	1816	25
CC03_09 - 138	4.42	0.16	0.258	0.012	0.92876	73.32672286	1479	60	2017	30
CC03_09 - 23	3.776	0.077	0.2369	0.0061	0.72478	72.91112294	1370	32	1879	31
CC03_09 - 35	4.2	0.17	0.248	0.013	0.86044	72.40325866	1422	65	1964	44
CC03_09 - 56	3.7	0.16	0.234	0.01	0.95889	72.26082309	1352	52	1871	19
CC03_09 - 119	4.3	0.11	0.2523	0.0069	0.89443	71.64031621	1450	36	2024	21
CC03_09 - 3	4.42	0.19	0.254	0.011	0.95715	71.63958641	1455	58	2031	23
CC03_09 - 265	4.569	0.074	0.257	0.0048	0.54385	70.79731028	1474	25	2082	28
CC03_09 - 122	3.33	0.12	0.2176	0.0077	0.90579	70.03869541	1267	41	1809	25
CC03_09 - 194	3.367	0.064	0.2174	0.0039	0.75983	69.82378855	1268	21	1816	25
CC03_09 - 62	3.71	0.12	0.2281	0.0083	0.93428	68.00411523	1322	44	1944	24
CC03_09 - 95	3.61	0.27	0.223	0.018	0.98664	67.15252473	1290	96	1921	26
CC03_09 - 21	7.01	0.16	0.3012	0.0062	0.90578	66.87697161	1696	31	2536	15
CC03_09 - 240	3.508	0.045	0.2164	0.0028	0.32984	66.05648536	1263	15	1912	23
CC03_09 - 163	3.64	0.12	0.221	0.0067	0.93085	66.0164271	1286	35	1948	21
CC03_09 - 183	3.511	0.075	0.2143	0.0055	0.89513	64.51779268	1251	29	1939	15
CC03_09 - 217	4.292	0.064	0.2347	0.004	0.76082	64.34659091	1359	21	2112	18

CC03_09 - 219	3.505	0.049	0.2144	0.0033	0.75957	64.30405752	1252	17	1947	17
CC03_09 - 136	3.74	0.14	0.2192	0.0077	0.87895	64.13862381	1277	41	1991	31
CC03_09 - 63	4.046	0.065	0.2279	0.0027	0.69571	63.75903614	1323	14	2075	19
CC03_09 - 191	3.88	0.18	0.223	0.011	0.97086	63.57843137	1297	56	2040	17
CC03_09 - 71	3.909	0.097	0.2235	0.0054	0.91713	63.16812439	1300	29	2058	16
CC03_09 - 155	3.679	0.089	0.2148	0.0053	0.82291	62.5748503	1254	28	2004	28
CC03_09 - 29	6.51	0.19	0.2797	0.007	0.96318	62.3871221	1589	35	2547	14
CC03_09 - 167	3.337	0.07	0.2032	0.0038	0.76336	61.88992731	1192	21	1926	23
CC03_09 - 156	3.09	0.14	0.1965	0.0093	0.95211	61.85622318	1153	50	1864	25
CC03_09 - 247	3.31	0.13	0.201	0.0087	0.91366	61.6024974	1184	47	1922	27
CC03_09 - 14	3.611	0.068	0.2086	0.005	0.8139	60.62562066	1221	27	2014	22
CC03_09 - 6	3.176	0.072	0.1939	0.0035	0.47463	59.32467532	1142	19	1925	35
CC03_09 - 83	3.108	0.094	0.1919	0.0082	0.82824	58.39793282	1130	45	1935	43
CC03_09 - 165	3.603	0.08	0.205	0.0045	0.87071	58.24442289	1201	24	2062	24
CC03_09 - 106	6.01	0.14	0.2533	0.0057	0.75385	57.06436421	1454	29	2548	22
CC03_09 - 153	3.3	0.13	0.1927	0.0089	0.95276	56.50224215	1134	48	2007	21
CC03_09 - 73	3.93	0.11	0.2074	0.0056	0.8967	56.31067961	1218	29	2163	20
CC03_09 - 200	4.316	0.063	0.2177	0.0035	0.70073	56.0760053	1269	19	2263	20
CC03_09 - 253	2.926	0.065	0.179	0.0046	0.83135	54.74716202	1061	25	1938	24
CC03_09 - 45	3.86	0.12	0.203	0.01	0.92707	54.42052222	1188	55	2183	36
CC03_09 - 79	5.643	0.073	0.2403	0.0035	0.93766	54.329106	1388	18	2554.8	9.8
CC03_09 - 143	3.691	0.081	0.1979	0.0035	0.75499	54.11436541	1164	19	2151	22
CC03_09 - 146	3.243	0.069	0.1859	0.0029	0.85861	54.08464567	1099	16	2032	20
CC03_09 - 7	2.864	0.042	0.174	0.0027	0.83094	53.10734463	1034	15	1947	21
CC03_09 - 158	3.215	0.099	0.1837	0.0056	0.84453	52.59079903	1086	30	2065	32
CC03_09 - 245	2.528	0.071	0.1617	0.0043	0.8847	52.42980562	971	22	1852	23
CC03_09 - 86	5.48	0.33	0.229	0.013	0.98637	51.17624373	1327	68	2593	15
CC03_09 - 199	3.3	0.092	0.1831	0.0064	0.90924	51.08490566	1083	35	2120	20
CC03_09 - 162	4.26	0.11	0.2052	0.0082	0.39055	51.0403397	1202	44	2355	47
CC03_09 - 93	3.082	0.075	0.1755	0.0051	0.89922	50.97847358	1042	28	2044	23
CC03_09 - 40	3.644	0.097	0.19	0.0056	0.92916	50.74762121	1120	30	2207	18
CC03_09 - 214	3.271	0.06	0.18	0.0028	0.80802	50.2354049	1067	15	2124	17
CC03_09 - 115	4.37	0.1	0.2049	0.004	0.89956	49.97919268	1201	21	2403	16
CC03_09 - 125	4.9	0.13	0.2088	0.0046	0.89607	48.20512821	1222	24	2535	17
CC03_09 - 105	2.36	0.12	0.1492	0.0082	0.96287	47.55319149	894	46	1880	26
CC03_09 - 229	2.89	0.16	0.164	0.01	0.97887	47.5449684	978	58	2057	23
CC03_09 - 139	14.4	1.5	0.3	0.017	0.90914	47.54237288	1683	85	3540	100
CC03_09 - 246	2.81	0.11	0.1614	0.0058	0.96201	47.43842365	963	32	2030	16
CC03_09 - 8	2.927	0.043	0.1626	0.0023	0.68615	46.90821256	971	13	2070	23
CC03_09 - 1	3.02	0.071	0.165	0.0029	0.65669	46.61297963	984	16	2111	35
CC03_09 - 39	3.33	0.1	0.1729	0.0049	0.92612	46.34476534	1027	27	2216	18

CC03_09 - 166	2.41	0.2	0.149	0.014	0.98648	45.74358974	892	77	1950	28
CC03_09 - 34	2.52	0.17	0.1498	0.0097	0.98581	45.45454545	895	55	1969	17
CC03_09 - 15	3.022	0.057	0.1629	0.0036	0.87167	45.08348794	972	20	2156	29
CC03_09 - 179	2.785	0.075	0.1556	0.0054	0.90827	44.54545455	931	30	2090	25
CC03_09 - 100	3.254	0.088	0.166	0.0044	0.91874	44.2556996	990	24	2237	23
CC03_09 - 17	3.917	0.059	0.1803	0.003	0.82873	44.05940594	1068	16	2424	15
CC03_09 - 141	2.14	0.036	0.1356	0.0022	0.77237	43.85026738	820	13	1870	21
CC03_09 - 36	2.432	0.077	0.143	0.005	0.89202	42.92123629	861	28	2006	27
CC03_09 - 107	2.477	0.044	0.1433	0.0018	0.71736	42.57523434	863	10	2027	24
CC03_09 - 227	2.235	0.054	0.1354	0.0028	0.88049	41.78571429	819	16	1960	22
CC03_09 - 142	2.181	0.031	0.1321	0.0015	0.59531	40.99436187	799.8	8.7	1951	22
CC03_09 - 264	2.972	0.059	0.1529	0.0029	0.85461	40.90098127	917	16	2242	18
CC03_09 - 54	2.214	0.034	0.1328	0.0021	0.67637	40.46300956	804	12	1987	22
CC03_09 - 190	2.314	0.032	0.1333	0.0021	0.70388	40.13909588	808	12	2013	15
CC03_09 - 85	2.23	0.11	0.1251	0.0049	0.94089	36.68438859	759	28	2069	20
CC03_09 - 25	2.066	0.065	0.1211	0.0037	0.9427	36.66666667	737	21	2010	18
CC03_09 - 220	2.58	0.12	0.1327	0.0056	0.9507	36.25678119	802	32	2212	22
CC03_09 - 161	1.861	0.048	0.1148	0.0044	0.83083	36.11971104	700	25	1938	32
CC03_09 - 94	1.94	0.15	0.1173	0.0089	0.96476	35.90909091	711	51	1980	26
CC03_09 - 26	2.47	0.036	0.1297	0.0013	0.12874	35.83219334	785.8	7.4	2193	24
CC03_09 - 22	1.971	0.055	0.1136	0.002	0.81854	34.35643564	694	11	2020	28
CC03_09 - 207	1.874	0.049	0.1095	0.0028	0.86005	33.75314861	670	16	1985	23
CC03_09 - 33	2.21	0.12	0.1181	0.0066	0.9805	33.62997658	718	38	2135	18
CC03_09 - 204	2.002	0.065	0.1123	0.004	0.95933	33.06181121	690	24	2087	17
CC03_09 - 57	1.633	0.049	0.1014	0.0024	0.92381	32.85789752	622	14	1893	19
CC03_09 - 109	1.787	0.082	0.1065	0.0053	0.85195	32.22936233	652	31	2023	41
CC03_09 - 211	1.855	0.057	0.1042	0.0031	0.97476	30.75072185	639	18	2078	15
CC03_09 - 225	2.154	0.028	0.1096	0.0016	0.57646	29.63748895	670.4	9.3	2262	20
CC03_09 - 103	1.65	0.096	0.0939	0.0053	0.96998	27.96897722	577	32	2063	23
CC03_09 - 51	1.703	0.038	0.0908	0.0018	0.88852	25.66452796	560	11	2182	19
CC03_09 - 195	1.581	0.042	0.0866	0.0023	0.9314	25.57361377	535	14	2092	18
CC03_09 - 16	1.88	0.21	0.095	0.011	0.99533	25.44091711	577	64	2268	15
CC03_09 - 69	1.592	0.033	0.0829	0.0023	0.86188	23.16027088	513	14	2215	21
CC03_09 - 52	0.907	0.038	0.0457	0.0021	0.94258	12.6984127	288	13	2268	26
CC02_10 - 224	5.537	0.11	0.3522	0.0039	0.38279	104.7388261	1945	19	1857	30
CC02_10 - 155	4.961	0.091	0.3326	0.0049	0.55132	104.4582393	1851	24	1772	23
CC02_10 - 245	5.43	0.079	0.3454	0.0034	0.44434	103.4613304	1913	16	1849	17
CC02_10 - 246	5.42	0.089	0.3448	0.004	0.047127	103.3567948	1909	19	1847	30
CC02_10 - 255	4.92	0.12	0.3269	0.004	0.28519	103.3446712	1823	20	1764	38
CC02_10 - 70	4.702	0.1	0.3204	0.0035	0.36003	103.1663788	1792	17	1737	33
CC02_10 - 42	5.495	0.089	0.3453	0.0042	0.45567	102.6852846	1912	20	1862	21

CC02_10 - 2	7.57	0.13	0.4081	0.0045	0.61558	102.5092937	2206	20	2152	21
CC02_10 - 46	11.31	0.2	0.4894	0.0056	0.23631	102.3515345	2568	24	2509	29
CC02_10 - 220	5.01	0.14	0.3266	0.0049	0.29001	102.1885522	1821	24	1782	46
CC02_10 - 69	4.77	0.14	0.3214	0.0068	0.77549	102.1627775	1795	34	1757	29
CC02_10 - 50	4.835	0.096	0.3231	0.0039	0.25046	102.1505376	1805	19	1767	32
CC02_10 - 228	4.689	0.084	0.3156	0.0054	0.71623	102.0196192	1768	26	1733	22
CC02_10 - 184	10.974	0.15	0.4847	0.005	0.46195	101.88	2547	22	2500	17
CC02_10 - 13	4.95	0.16	0.3264	0.0055	0.643	101.8466704	1820	27	1787	51
CC02_10 - 154	4.781	0.077	0.3217	0.0031	0.36654	101.8120045	1798	15	1766	23
CC02_10 - 37	5.277	0.09	0.3369	0.0034	0.53045	101.7944535	1872	16	1839	21
CC02_10 - 241	5.39	0.13	0.3412	0.0046	0.53819	101.7204301	1892	22	1860	33
CC02_10 - 73	5.685	0.11	0.3504	0.0041	0.10997	101.6272966	1936	20	1905	33
CC02_10 - 218	4.99	0.11	0.3265	0.0036	0.4001	101.6183036	1821	17	1792	32
CC02_10 - 106	4.644	0.078	0.3151	0.0034	0.28829	101.6110472	1766	17	1738	22
CC02_10 - 147	4.717	0.086	0.3186	0.0039	0.20122	101.5954416	1783	19	1755	30
CC02_10 - 233	9.73	0.14	0.4562	0.0048	0.48714	101.4656616	2423	21	2388	17
CC02_10 - 125	11.35	0.21	0.4899	0.0068	0.46577	101.4607185	2570	30	2533	25
CC02_10 - 55	5.221	0.084	0.3346	0.0035	0.34423	101.3616558	1861	17	1836	22
CC02_10 - 257	11.06	0.21	0.4818	0.0064	0.21911	101.36	2534	28	2500	31
CC02_10 - 223	5.449	0.11	0.3425	0.0053	0.40302	101.3347571	1898	26	1873	33
CC02_10 - 98	4.737	0.072	0.3176	0.0031	0.37613	101.3105413	1778	15	1755	19
CC02_10 - 129	5.33	0.12	0.3383	0.0058	0.82419	101.1308562	1878	28	1857	21
CC02_10 - 36	11.04	0.23	0.4837	0.0078	0.28227	101.1133201	2543	34	2515	31
CC02_10 - 230	5.644	0.1	0.3469	0.0043	0.33028	101.1029412	1925	19	1904	28
CC02_10 - 3	5.078	0.08	0.3296	0.0036	0.4084	101.1013216	1836	18	1816	23
CC02_10 - 151	4.894	0.082	0.3232	0.0039	0.54362	101.0638298	1805	19	1786	23
CC02_10 - 171	5.428	0.081	0.3423	0.0035	0.34097	101.0117146	1897	17	1878	21
CC02_10 - 26	4.87	0.086	0.3212	0.0033	0.26631	100.955593	1796	16	1779	26
CC02_10 - 64	4.86	0.11	0.3226	0.0041	0.48154	100.952381	1802	20	1785	35
CC02_10 - 196	5.578	0.11	0.3451	0.0044	0.44086	100.9508716	1911	21	1893	26
CC02_10 - 226	6.61	0.18	0.3771	0.0048	0.26938	100.9300049	2062	23	2043	44
CC02_10 - 213	5.42	0.1	0.3408	0.0041	0.081086	100.6925946	1890	20	1877	33
CC02_10 - 231	4.609	0.075	0.3125	0.0034	0.45397	100.689259	1753	17	1741	23
CC02_10 - 11	6.69	0.13	0.3798	0.005	0.69082	100.6304559	2075	23	2062	20
CC02_10 - 221	5.829	0.1	0.3534	0.0044	0.43735	100.6188757	1951	21	1939	25
CC02_10 - 229	5.577	0.11	0.345	0.0045	0.22129	100.5789474	1911	22	1900	26
CC02_10 - 68	5.154	0.1	0.3308	0.0039	0.26481	100.5458515	1842	19	1832	29
CC02_10 - 48	19.74	0.31	0.6128	0.0076	0.82967	100.5215124	3084	31	3068	11
CC02_10 - 10	5.274	0.088	0.335	0.0041	0.63224	100.4856989	1862	20	1853	21
CC02_10 - 128	5.85	0.15	0.3542	0.0049	0.57867	100.4110997	1954	24	1946	35
CC02_10 - 138	4.67	0.084	0.315	0.0047	0.80826	100.3981797	1765	23	1758	17

CC02_10 - 210	4.696	0.09	0.3144	0.0035	0.27922	100.3416856	1762	17	1756	27
CC02_10 - 137	4.728	0.086	0.3165	0.0038	0.2068	100.3397508	1772	19	1766	31
CC02_10 - 56	11.1	0.22	0.4812	0.0092	0.87952	100.3170828	2531	40	2523	16
CC02_10 - 43	10.1	0.28	0.4601	0.0092	0.87918	100.2878289	2439	41	2432	27
CC02_10 - 189	5.247	0.09	0.3338	0.0034	0.42322	100.2699784	1857	16	1852	23
CC02_10 - 253	5.639	0.087	0.3469	0.0057	0.50821	100.2088773	1919	27	1915	26
CC02_10 - 216	4.453	0.11	0.3051	0.0043	0.16223	100.1748252	1719	22	1716	48
CC02_10 - 74	4.856	0.093	0.3209	0.0043	0.3882	100.1675042	1794	21	1791	28
CC02_10 - 167	10.8	0.16	0.474	0.0047	0.48643	100.1601922	2501	20	2497	17
CC02_10 - 110	4.804	0.094	0.3178	0.0041	0.32271	100.056243	1779	20	1778	30
CC02_10 - 191	4.723	0.08	0.3142	0.0037	0.49157	100	1761	18	1761	21
CC02_10 - 126	14.22	0.21	0.5328	0.0057	0.40551	99.96368918	2753	24	2754	21
CC02_10 - 61	6.75	0.14	0.378	0.0043	0.20912	99.9516441	2067	20	2068	34
CC02_10 - 145	4.575	0.083	0.31	0.0046	0.72296	99.94266055	1743	23	1744	19
CC02_10 - 18	4.607	0.078	0.3096	0.0031	0.14133	99.94252874	1739	15	1740	27
CC02_10 - 195	9.95	0.15	0.456	0.0044	0.21699	99.87628866	2422	19	2425	22
CC02_10 - 109	4.92	0.07	0.3216	0.0037	0.23615	99.77790117	1797	18	1801	21
CC02_10 - 41	4.507	0.079	0.3064	0.0032	0.17963	99.76838448	1723	16	1727	28
CC02_10 - 127	5.078	0.11	0.327	0.0034	0.24531	99.72662657	1824	17	1829	31
CC02_10 - 142	7.38	0.12	0.3971	0.0045	0.23579	99.72235076	2155	21	2161	27
CC02_10 - 252	4.61	0.086	0.3112	0.0046	0.43597	99.65753425	1746	23	1752	24
CC02_10 - 130	11.31	0.16	0.4829	0.0044	0.44954	99.52978056	2540	19	2552	14
CC02_10 - 239	4.72	0.1	0.3152	0.0048	0.54309	99.49295775	1766	23	1775	29
CC02_10 - 95	4.605	0.071	0.31	0.003	0.52324	99.48571429	1741	15	1750	18
CC02_10 - 8	11.04	0.23	0.4752	0.0083	0.8208	99.28656361	2505	36	2523	17
CC02_10 - 115	6.241	0.097	0.3645	0.0034	0.45101	99.25668979	2003	16	2018	19
CC02_10 - 124	4.53	0.071	0.3072	0.0038	0.58743	99.02522936	1727	19	1744	18
CC02_10 - 256	5.3	0.19	0.334	0.011	0.91373	98.82791689	1855	55	1877	22
CC02_10 - 99	5.315	0.079	0.3332	0.0036	0.41343	98.72272485	1855	17	1879	20
CC02_10 - 90	4.713	0.092	0.3116	0.0039	0.14964	98.53438557	1748	19	1774	35
CC02_10 - 161	4.607	0.083	0.3099	0.0035	0.26415	98.52774632	1740	17	1766	29
CC02_10 - 58	10.75	0.22	0.4691	0.008	0.87687	98.45115171	2479	35	2518	15
CC02_10 - 243	4.7	0.12	0.313	0.0049	0.48624	98.42961301	1755	24	1783	39
CC02_10 - 134	5.046	0.082	0.3251	0.0031	0.3941	98.42733189	1815	15	1844	20
CC02_10 - 140	4.543	0.094	0.3043	0.0032	0.1205	98.27784156	1712	16	1742	33
CC02_10 - 63	4.763	0.088	0.3148	0.0039	0.33497	98.21826281	1764	19	1796	31
CC02_10 - 157	4.6	0.11	0.3082	0.0049	0.050408	98.18491208	1731	24	1763	47
CC02_10 - 100	4.632	0.066	0.3085	0.0034	0.18709	97.90960452	1733	17	1770	23
CC02_10 - 165	5.264	0.08	0.3301	0.0036	0.78383	97.87120809	1839	18	1879	17
CC02_10 - 77	4.689	0.11	0.3099	0.0038	0.2864	97.86276715	1740	19	1778	40
CC02_10 - 234	4.566	0.088	0.3085	0.004	0.47099	97.68883878	1733	20	1774	31

CC02_10 - 62	4.634	0.077	0.3095	0.0036	0.58552	97.47616377	1738	18	1783	26
CC02_10 - 38	4.628	0.1	0.3088	0.0038	0.059174	97.36251403	1735	19	1782	40
CC02_10 - 85	8.84	0.15	0.4249	0.0061	0.66354	97.35494881	2282	27	2344	21
CC02_10 - 249	4.89	0.15	0.3161	0.0056	0.28525	97.09270433	1770	27	1823	51
CC02_10 - 158	4.438	0.088	0.2988	0.0038	0.51613	97.00633276	1685	19	1737	23
CC02_10 - 141	4.481	0.082	0.3023	0.0035	0.30857	96.92482916	1702	17	1756	27
CC02_10 - 123	11.323	0.15	0.4734	0.0048	0.49453	96.78419217	2498	21	2581	13
CC02_10 - 199	6.284	0.1	0.3586	0.0035	0.20204	96.67156143	1975	17	2043	23
CC02_10 - 12	4.479	0.067	0.3002	0.0031	0.31769	96.46522235	1692	15	1754	22
CC02_10 - 23	5.13	0.14	0.3225	0.0084	0.92282	95.48832272	1799	41	1884	17
CC02_10 - 82	4.567	0.08	0.3016	0.0037	0.23685	95.02237136	1699	18	1788	31
CC02_10 - 17	4.724	0.081	0.3086	0.0035	0.19662	94.96166484	1734	17	1826	31
CC02_10 - 200	4.407	0.086	0.295	0.0035	0.44049	94.76678043	1666	17	1758	24
CC02_10 - 66	4.738	0.1	0.3072	0.0033	0.55688	94.42318207	1727	16	1829	32
CC02_10 - 21	4.397	0.085	0.2942	0.005	0.68493	94.37819421	1662	25	1761	24
CC02_10 - 78	6.317	0.091	0.3552	0.0039	0.42203	94.31872894	1959	19	2077	19
CC02_10 - 39	5.78	0.17	0.3392	0.0097	0.91574	94.25	1885	47	2000	18
CC02_10 - 54	5.196	0.083	0.3212	0.0041	0.56098	94.12690089	1795	20	1907	18
CC02_10 - 44	5.112	0.084	0.3171	0.0034	0.49076	93.76650819	1775	17	1893	20
CC02_10 - 159	10.998	0.15	0.4563	0.0051	0.68334	93.73307544	2423	22	2585	11
CC02_10 - 103	4.96	0.13	0.3138	0.0082	0.87718	93.41126461	1758	41	1882	27
CC02_10 - 111	10.36	0.18	0.4411	0.0061	0.72068	93.00947867	2355	27	2532	18
CC02_10 - 35	4.599	0.11	0.2996	0.007	0.7948	92.95542102	1689	35	1817	26
CC02_10 - 80	4.633	0.081	0.2993	0.0028	0.25794	92.6963207	1688	14	1821	26
CC02_10 - 215	9.41	0.22	0.4227	0.0077	0.71382	92.12981744	2271	35	2465	23
CC02_10 - 20	4.79	0.1	0.3031	0.0041	0.47876	91.96765499	1706	20	1855	31
CC02_10 - 107	9.55	0.17	0.423	0.005	0.36845	91.80460234	2274	23	2477	25
CC02_10 - 14	4.79	0.084	0.303	0.0037	0.5495	91.63538874	1709	19	1865	24
CC02_10 - 178	4.906	0.097	0.3074	0.0047	0.54854	91.61803714	1727	23	1885	28
CC02_10 - 114	4.96	0.093	0.3084	0.0037	0.38132	91.54780771	1733	18	1893	24
CC02_10 - 176	5.139	0.11	0.3139	0.0065	0.8441	91.09269808	1759	32	1931	20
CC02_10 - 139	4.309	0.078	0.2854	0.0041	0.46639	90.6442577	1618	20	1785	27
CC02_10 - 186	4.732	0.076	0.3009	0.0034	0.64951	90.59326563	1695	17	1871	17
CC02_10 - 169	4.769	0.09	0.2977	0.0039	0.49423	90.27404621	1680	19	1861	27
CC02_10 - 198	4.33	0.11	0.2832	0.0082	0.87704	90.13927577	1618	41	1795	24
CC02_10 - 84	4.745	0.073	0.2991	0.0028	0.35967	90.02666667	1688	14	1875	20
CC02_10 - 164	13.95	0.19	0.4918	0.005	0.44596	89.98254799	2578	22	2865	14
CC02_10 - 60	9.95	0.16	0.4243	0.0047	0.48337	89.86992511	2280	21	2537	18
CC02_10 - 47	17.31	0.27	0.5328	0.0066	0.75732	89.46684005	2752	28	3076	12
CC02_10 - 143	4.48	0.091	0.2894	0.0039	0.53327	89.1671203	1638	20	1837	28
CC02_10 - 193	4.05	0.1	0.2731	0.004	0.46847	88.91428571	1556	20	1750	39

CC02_10 - 173	4.074	0.096	0.2733	0.0044	0.52211	88.86986301	1557	22	1752	32
CC02_10 - 206	4.615	0.1	0.292	0.003	0.1319	88.66809882	1651	15	1862	38
CC02_10 - 104	5.319	0.098	0.314	0.0042	0.77014	88.6203424	1760	21	1986	17
CC02_10 - 192	4.185	0.081	0.2781	0.0039	0.71268	88.52183651	1581	20	1786	21
CC02_10 - 174	4.508	0.089	0.2878	0.0038	0.52257	88.36580087	1633	18	1848	27
CC02_10 - 201	5.28	0.11	0.3123	0.0035	0.65231	88.35098336	1752	17	1983	24
CC02_10 - 188	4.222	0.067	0.2767	0.0036	0.52925	87.98211291	1574	18	1789	23
CC02_10 - 24	4.754	0.083	0.2938	0.0031	0.49568	87.8771837	1660	15	1889	22
CC02_10 - 238	4.843	0.097	0.2973	0.0048	0.21589	87.87245165	1681	23	1913	38
CC02_10 - 202	9.33	0.16	0.4075	0.0053	0.75409	87.45533942	2203	24	2519	16
CC02_10 - 244	4.786	0.086	0.2956	0.0046	0.62259	86.79147166	1669	23	1923	23
CC02_10 - 247	5.81	0.087	0.3237	0.0037	0.35226	86.31378159	1810	18	2097	19
CC02_10 - 148	5.59	0.22	0.316	0.011	0.96428	86.06916707	1767	54	2053	21
CC02_10 - 156	4.54	0.12	0.2842	0.0073	0.87997	86.05769231	1611	37	1872	24
CC02_10 - 116	4.067	0.076	0.2663	0.0035	0.43821	85.74647887	1522	18	1775	30
CC02_10 - 49	5.04	0.082	0.3005	0.0036	0.66683	85.16842634	1694	18	1989	18
CC02_10 - 102	9.04	0.15	0.3914	0.0059	0.82547	84.71945881	2129	27	2513	13
CC02_10 - 205	4.049	0.067	0.2668	0.0032	0.61481	84.66666667	1524	16	1800	19
CC02_10 - 144	4.047	0.075	0.2655	0.0033	0.29111	84.61538462	1518	17	1794	27
CC02_10 - 153	5.323	0.1	0.3059	0.0055	0.80421	84.52088452	1720	27	2035	17
CC02_10 - 166	8.35	0.18	0.374	0.0053	0.53653	83.62596978	2048	25	2449	27
CC02_10 - 197	4.84	0.11	0.2913	0.0045	0.88057	83.48530902	1648	23	1974	18
CC02_10 - 175	4.828	0.081	0.2886	0.0044	0.62189	83.02845528	1634	22	1968	26
CC02_10 - 40	4.348	0.093	0.2746	0.0053	0.78963	83.00584174	1563	27	1883	20
CC02_10 - 250	4.348	0.083	0.2733	0.0041	0.72365	82.6433121	1557	21	1884	21
CC02_10 - 91	4.159	0.073	0.266	0.003	0.17069	82.42950108	1520	15	1844	29
CC02_10 - 242	4.65	0.11	0.2777	0.0049	0.87413	80.8499744	1579	25	1953	20
CC02_10 - 208	4.498	0.1	0.2721	0.0045	0.51031	80.52959502	1551	23	1926	33
CC02_10 - 248	7.63	0.2	0.3537	0.0078	0.85571	79.99179992	1951	37	2439	25
CC02_10 - 92	4.532	0.087	0.272	0.0042	0.76149	79.9896854	1551	21	1939	21
CC02_10 - 9	3.801	0.079	0.2484	0.0041	0.7039	79.75460123	1430	21	1793	23
CC02_10 - 7	6.44	0.12	0.3228	0.005	0.79613	79.3224813	1803	25	2273	17
CC02_10 - 88	4.19	0.17	0.26	0.012	0.97513	77.71993753	1493	63	1921	29
CC02_10 - 232	7.14	0.25	0.3322	0.0089	0.82956	77	1848	43	2400	31
CC02_10 - 235	4.366	0.098	0.2614	0.0049	0.82623	76.85611879	1501	26	1953	21
CC02_10 - 71	4.299	0.11	0.2603	0.0056	0.818	76.57611481	1494	29	1951	24
CC02_10 - 222	4.05	0.073	0.2508	0.0032	0.11584	75.86750789	1443	16	1902	33
CC02_10 - 25	3.663	0.072	0.2381	0.0039	0.71264	75.729224	1376	20	1817	21
CC02_10 - 217	3.98	0.11	0.2499	0.0074	0.8972	75.51234892	1437	38	1903	22
CC02_10 - 209	5.02	0.18	0.2763	0.0041	-0.33892	75.13101477	1577	20	2099	67
CC02_10 - 149	4.771	0.094	0.2701	0.0037	0.60479	74.87852284	1541	19	2058	25

CC02_10 - 168	4.157	0.073	0.2505	0.003	0.53473	73.59550562	1441	16	1958	22
CC02_10 - 187	3.861	0.09	0.2401	0.0041	0.53446	73.15400844	1387	21	1896	30
CC02_10 - 67	3.58	0.11	0.2303	0.0074	0.84857	72.9907053	1335	39	1829	27
CC02_10 - 79	3.4	0.11	0.2238	0.0073	0.85739	72.22222222	1300	38	1800	30
CC02_10 - 146	4.143	0.065	0.2458	0.0035	0.67055	71.9654647	1417	18	1969	18
CC02_10 - 203	3.567	0.083	0.2285	0.0046	0.86731	71.83783784	1329	24	1850	17
CC02_10 - 236	10.7	1.4	0.35	0.014	0.95895	71.37037037	1927	67	2700	180
CC02_10 - 121	3.723	0.095	0.2335	0.0054	0.90166	70.97112861	1352	28	1905	17
CC02_10 - 118	4.55	0.12	0.2549	0.0062	0.8789	70.62801932	1462	32	2070	21
CC02_10 - 204	7.14	0.14	0.3142	0.0048	0.81669	70.49639712	1761	24	2498	17
CC02_10 - 133	5.37	0.18	0.2749	0.0085	0.96001	70.3870387	1564	43	2222	17
CC02_10 - 93	4.161	0.07	0.2429	0.0034	0.45156	69.92518703	1402	18	2005	25
CC02_10 - 72	4.25	0.12	0.2445	0.0071	0.96195	69.10250123	1409	37	2039	18
CC02_10 - 170	5.661	0.097	0.2815	0.004	0.68895	69.08776481	1598	20	2313	17
CC02_10 - 1	3.91	0.068	0.2325	0.0037	0.48748	68.74043855	1348	19	1961	28
CC02_10 - 45	4.111	0.088	0.2375	0.0037	0.78683	68.07139316	1373	19	2017	20
CC02_10 - 177	8.04	0.17	0.3204	0.0051	0.76188	67.22972973	1791	25	2664	18
CC02_10 - 5	3.907	0.061	0.2282	0.0029	0.46046	66.08478803	1325	15	2005	22
CC02_10 - 219	3.42	0.15	0.2124	0.0083	0.93886	65.99254923	1240	44	1879	26
CC02_10 - 212	3.607	0.092	0.2168	0.0048	0.8829	64.90507953	1265	26	1949	21
CC02_10 - 117	4.309	0.073	0.236	0.0043	0.43804	64.72261735	1365	22	2109	33
CC02_10 - 152	3.628	0.063	0.2171	0.003	0.74503	64.03641882	1266	16	1977	17
CC02_10 - 31	3.582	0.057	0.2128	0.0029	0.86829	63.0831643	1244	15	1972	15
CC02_10 - 172	2.881	0.072	0.1875	0.0038	0.8388	61.70568562	1107	21	1794	19
CC02_10 - 227	3.307	0.082	0.201	0.0039	0.90033	61.58663883	1180	21	1916	23
CC02_10 - 135	3.028	0.071	0.192	0.0036	0.82664	61.55519304	1132	20	1839	22
CC02_10 - 183	5.08	0.16	0.2454	0.0074	0.90537	60.86769759	1417	38	2328	21
CC02_10 - 65	6.34	0.41	0.2682	0.0061	0.87824	60.60965954	1531	31	2526	75
CC02_10 - 240	3.127	0.091	0.1925	0.0047	0.91633	59.0625	1134	25	1920	21
CC02_10 - 180	3.863	0.067	0.2122	0.0031	0.58907	58.90995261	1243	16	2110	24
CC02_10 - 34	2.981	0.07	0.1857	0.0034	0.81917	58.41741901	1100	19	1883	22
CC02_10 - 76	3.416	0.082	0.1978	0.0045	0.90409	57.97607178	1163	24	2006	16
CC02_10 - 96	3.42	0.11	0.1963	0.0058	0.92429	56.89739813	1159	31	2037	20
CC02_10 - 190	3.46	0.13	0.1979	0.0058	0.89266	56.67641326	1163	31	2052	29
CC02_10 - 101	3.56	0.14	0.1983	0.0067	0.94263	56.25301787	1165	36	2071	20
CC02_10 - 81	2.945	0.07	0.1805	0.0032	0.43675	56.18448637	1072	17	1908	36
CC02_10 - 207	2.753	0.068	0.1762	0.0035	0.79686	56.17615467	1046	19	1862	26
CC02_10 - 112	3.116	0.062	0.1846	0.0025	0.77505	54.95722194	1092	13	1987	22
CC02_10 - 15	2.88	0.15	0.1749	0.0088	0.9456	54.64994775	1046	50	1914	29
CC02_10 - 94	3.662	0.1	0.1983	0.0055	0.95608	54.43510738	1166	30	2142	14
CC02_10 - 28	2.965	0.06	0.1787	0.0027	0.8336	54.38686506	1060	15	1949	19

CC02_10 - 59	4.461	0.068	0.2152	0.0024	0.59211	53.74411639	1256	13	2337	18
CC02_10 - 33	3.014	0.069	0.1805	0.0036	0.62508	53.74183827	1070	20	1991	28
CC02_10 - 181	3.417	0.056	0.1895	0.0023	0.67109	53.18744053	1118	12	2102	17
CC02_10 - 150	2.719	0.049	0.1667	0.0023	0.61092	51.6900676	994	13	1923	25
CC02_10 - 182	3.2	0.14	0.1809	0.0079	0.97725	51.61601544	1070	43	2073	16
CC02_10 - 30	2.853	0.058	0.169	0.0035	0.89229	50.80808081	1006	19	1980	15
CC02_10 - 19	2.889	0.056	0.1693	0.0027	0.7761	50.52631579	1008	15	1995	18
CC02_10 - 131	2.576	0.08	0.1595	0.0052	0.88561	49.60957834	953	29	1921	24
CC02_10 - 87	3.059	0.053	0.1727	0.0023	0.61764	49.58957026	1027	12	2071	22
CC02_10 - 75	3.342	0.054	0.18	0.002	0.81703	49.58643123	1067.1	11	2152	13
CC02_10 - 86	2.531	0.075	0.1569	0.0048	0.87978	49.57716702	938	27	1892	25
CC02_10 - 251	3.99	0.24	0.193	0.0072	0.934	49.47780679	1137	39	2298	55
CC02_10 - 211	2.76	0.12	0.1633	0.0056	0.97021	49.36644703	974	31	1973	21
CC02_10 - 185	3.33	0.075	0.1779	0.0028	0.78129	49.09260121	1055	15	2149	20
CC02_10 - 194	3.73	0.31	0.188	0.015	0.98083	48.65103936	1100	80	2261	28
CC02_10 - 162	2.81	0.12	0.1643	0.008	0.9768	48.61523244	983	44	2022	17
CC02_10 - 32	2.731	0.044	0.1614	0.0019	0.4084	48.52615694	964.7	11	1988	23
CC02_10 - 179	2.628	0.058	0.1573	0.0038	0.87212	48.15762538	941	21	1954	20
CC02_10 - 113	3.117	0.081	0.1693	0.0041	0.88472	47.19101124	1008	23	2136	20
CC02_10 - 27	2.682	0.046	0.1572	0.002	0.54482	47.03148426	941.1	11	2001	25
CC02_10 - 136	2.608	0.065	0.1544	0.0034	0.88667	46.57603223	925	19	1986	17
CC02_10 - 120	3.096	0.088	0.1668	0.0037	0.90063	46.3619403	994	20	2144	21
CC02_10 - 97	2.517	0.076	0.1501	0.0036	0.80805	46.06339468	901	20	1956	27
CC02_10 - 225	2.77	0.22	0.155	0.013	0.97976	44.22709924	927	75	2096	25
CC02_10 - 53	2.36	0.085	0.1406	0.004	0.90974	43.53182752	848	23	1948	22
CC02_10 - 254	2.531	0.045	0.1451	0.0019	0.69824	42.69305963	873.5	10	2046	19
CC02_10 - 22	2.308	0.048	0.1368	0.0023	0.88794	42.14285714	826	13	1960	20
CC02_10 - 237	2.805	0.081	0.1509	0.003	0.92367	41.73192077	906	17	2171	20
CC02_10 - 51	3.45	0.24	0.165	0.012	0.98598	41.0041841	980	65	2390	21
CC02_10 - 83	2.44	0.16	0.1375	0.0079	0.94414	40.54848188	828	45	2042	31
CC02_10 - 6	2.024	0.058	0.1261	0.0032	0.90711	40.34810127	765	18	1896	22
CC02_10 - 160	2.779	0.042	0.147	0.0018	0.71127	40.31919745	884.2	10	2193	14
CC02_10 - 57	2.876	0.043	0.1486	0.0024	0.64712	39.99104344	893	13	2233	24
CC02_10 - 108	2.483	0.051	0.1373	0.0025	0.75938	39.45740124	829	14	2101	21
CC02_10 - 132	2.33	0.089	0.1332	0.0047	0.92127	39.39393939	806	27	2046	22
CC02_10 - 16	2.428	0.048	0.1347	0.0021	0.76431	39.39101015	815	12	2069	20
CC02_10 - 52	2.034	0.074	0.124	0.0039	0.93006	38.85448916	753	22	1938	21
CC02_10 - 89	2.439	0.062	0.1329	0.0027	0.83517	37.71106942	804	15	2132	21
CC02_10 - 29	2.477	0.081	0.1309	0.0027	0.91928	36.51012891	793	16	2172	25
CC02_10 - 119	2.905	0.07	0.1394	0.0029	0.88229	36.01713062	841	16	2335	17
CC02_10 - 105	1.69	0.031	0.1049	0.0013	0.74395	33.70739381	642.8	7.7	1907	19

CC02_10 - 122	1.875	0.063	0.1084	0.0039	0.97029	32.45227606	663	23	2043	16
CC02_10 - 163	1.938	0.041	0.1045	0.002	0.88377	29.92052361	640	11	2139	16
CC02_10 - 4	2.275	0.077	0.1102	0.0022	0.81486	29.12705272	674	13	2314	33
CC02_10 - 214	1.586	0.041	0.0922	0.003	0.94868	27.85679255	568	18	2039	20
CC01_13 - 6	no value	NAN	no value	NAN	NaN	#VALUE!	no value	NAN	no value	NAN
CC01_13 - 26	12.029	0.22	0.5055	0.0055	0.58833	102.6837806	2640	25	2571	30
CC01_13 - 21	6.053	0.13	0.3657	0.0043	0.63367	102.5523226	2009	20	1959	34
CC01_13 - 97	6.369	0.12	0.3716	0.004	0.25805	101.3937282	2037	19	2009	35
CC01_13 - 8	4.757	0.1	0.3191	0.0035	0.29927	101.1331445	1785	17	1765	38
CC01_13 - 13	6.042	0.12	0.3612	0.004	0.49173	100.657562	1990	18	1977	34
CC01_13 - 50	15.3	0.37	0.5537	0.0089	0.32572	100.6380716	2839	37	2821	41
CC01_13 - 55	5.52	0.14	0.3436	0.0045	0.43683	100.3161222	1904	22	1898	41
CC01_13 - 4	4.725	0.11	0.3169	0.0039	0.37245	100.2826456	1774	19	1769	42
CC01_13 - 25	4.739	0.11	0.3173	0.004	0.39144	100.2823264	1776	19	1771	39
CC01_13 - 18	5.328	0.11	0.3382	0.0041	0.41414	100.2669514	1878	20	1873	38
CC01_13 - 107	4.608	0.11	0.311	0.0034	0.44014	100	1746	17	1746	39
CC01_13 - 103	4.778	0.097	0.3183	0.0037	0.57914	99.94388328	1781	18	1782	34
CC01_13 - 59	4.872	0.12	0.3209	0.0041	0.39113	99.88864143	1794	20	1796	43
CC01_13 - 44	4.826	0.1	0.3204	0.0039	0.11879	99.83277592	1791	19	1794	42
CC01_13 - 9	5.631	0.11	0.3458	0.0041	0.3809	99.79144943	1914	19	1918	35
CC01_13 - 117	5.303	0.11	0.3351	0.0046	0.37887	99.78575254	1863	22	1867	40
CC01_13 - 41	4.711	0.1	0.316	0.0039	0.29167	99.71830986	1770	19	1775	43
CC01_13 - 51	5.149	0.13	0.3298	0.0045	0.26934	99.62039046	1837	22	1844	44
CC01_13 - 124	4.749	0.11	0.3159	0.0036	0.551	99.55005624	1770	18	1778	38
CC01_13 - 73	7.18	0.19	0.3885	0.0054	0.46125	99.48283968	2116	25	2127	39
CC01_13 - 22	6.01	0.15	0.358	0.0056	0.74901	99.44640161	1976	26	1987	37
CC01_13 - 72	7.77	0.17	0.4039	0.0049	0.42126	99.09379248	2187	22	2207	35
CC01_13 - 122	4.713	0.11	0.3127	0.0046	0.39009	98.8745076	1757	22	1777	41
CC01_13 - 5	4.7	0.1	0.3129	0.0047	0.48255	98.76195836	1755	23	1777	37
CC01_13 - 84	5.085	0.12	0.3247	0.0037	0.47073	98.5326087	1813	18	1840	39
CC01_13 - 20	6.535	0.14	0.3694	0.0054	0.52768	98.11138015	2026	26	2065	38
CC01_13 - 60	4.984	0.11	0.3242	0.0038	0.36918	98.04983749	1810	19	1846	37
CC01_13 - 75	5.11	0.15	0.325	0.0051	0.17433	97.78975741	1814	25	1855	55
CC01_13 - 39	10.32	0.23	0.4572	0.0059	0.39578	97.31247493	2426	26	2493	36
CC01_13 - 2	11.122	0.22	0.4723	0.0055	0.64492	97.07943925	2493	24	2568	31
CC01_13 - 127	4.863	0.1	0.315	0.0037	0.42183	96.76535088	1765	18	1824	37
CC01_13 - 115	4.651	0.1	0.307	0.0035	0.080856	96.69652856	1727	16	1786	41
CC01_13 - 91	4.721	0.11	0.3111	0.0046	0.70104	96.67774086	1746	23	1806	38
CC01_13 - 7	4.47	0.14	0.3002	0.0039	0.36423	96.24573379	1692	20	1758	52
CC01_13 - 106	4.508	0.12	0.2997	0.0045	0.47861	95.96590909	1689	22	1760	45
CC01_13 - 23	5.323	0.12	0.3281	0.0047	0.69581	95.76581286	1832	23	1913	35

CC01_13 - 66	4.93	0.18	0.315	0.0086	0.77897	95.19697787	1764	43	1853	49
CC01_13 - 85	10.53	0.26	0.4524	0.0074	0.5666	95.02173054	2405	33	2531	36
CC01_13 - 77	4.663	0.1	0.3047	0.0036	0.25628	94.5394374	1714	18	1813	38
CC01_13 - 112	4.898	0.1	0.3123	0.0035	0.3467	94.49838188	1752	17	1854	36
CC01_13 - 101	4.907	0.12	0.3133	0.0041	0.49676	94.0546331	1756	20	1867	39
CC01_13 - 10	4.845	0.11	0.3081	0.004	0.68153	93.87201735	1731	20	1844	38
CC01_13 - 27	4.484	0.11	0.2964	0.0039	0.29111	93.46368715	1673	19	1790	46
CC01_13 - 99	4.694	0.092	0.304	0.0036	0.28511	93.44620426	1711	18	1831	35
CC01_13 - 116	4.448	0.092	0.2946	0.0036	0.51783	93.2735426	1664	18	1784	36
CC01_13 - 37	4.599	0.099	0.3	0.0045	0.62402	93.01430143	1691	22	1818	37
CC01_13 - 17	4.446	0.093	0.2931	0.0045	0.50239	92.26057906	1657	23	1796	38
CC01_13 - 43	4.592	0.096	0.2967	0.0035	0.23216	92.23568282	1675	17	1816	41
CC01_13 - 30	8.07	0.17	0.3904	0.0053	0.6405	91.27632144	2124	24	2327	34
CC01_13 - 119	4.488	0.1	0.2942	0.0042	0.60933	91.26853377	1662	21	1821	40
CC01_13 - 86	4.92	0.18	0.3053	0.0043	0.59779	91.03923648	1717	21	1886	55
CC01_13 - 61	4.453	0.1	0.2913	0.0035	0.47975	90.89906233	1648	17	1813	39
CC01_13 - 33	4.32	0.13	0.286	0.0063	0.64938	90.8632287	1621	32	1784	48
CC01_13 - 98	4.72	0.14	0.2995	0.0041	0.56686	90.3640257	1688	20	1868	51
CC01_13 - 36	6.143	0.13	0.3427	0.0046	0.27898	90.34253092	1899	22	2102	37
CC01_13 - 65	4.348	0.095	0.2867	0.0038	0.59193	90.2276513	1625	19	1801	37
CC01_13 - 47	4.89	0.15	0.3051	0.0097	0.90289	90.1208618	1715	48	1903	39
CC01_13 - 58	4.797	0.11	0.3022	0.0055	0.58956	90.10058232	1702	27	1889	37
CC01_13 - 100	5.68	0.18	0.3272	0.0046	0.049913	89.68058968	1825	22	2035	59
CC01_13 - 120	8.88	0.22	0.4055	0.008	0.88803	89.61994279	2193	37	2447	31
CC01_13 - 123	5.034	0.11	0.3071	0.0048	0.70182	89.10686629	1726	24	1937	38
CC01_13 - 81	4.474	0.11	0.2872	0.005	0.51398	89.00437637	1627	25	1828	38
CC01_13 - 57	4.716	0.12	0.2957	0.0047	0.48787	88.60625331	1672	23	1887	44
CC01_13 - 87	4.3	0.24	0.28	0.011	0.65444	88.56664808	1588	56	1793	60
CC01_13 - 38	5.886	0.13	0.3308	0.0051	0.70207	88.38771593	1842	25	2084	36
CC01_13 - 93	5.05	0.13	0.3033	0.0047	0.71587	87.18079673	1707	23	1958	39
CC01_13 - 14	4.376	0.11	0.2805	0.0054	0.80187	86.8119891	1593	27	1835	37
CC01_13 - 16	5.022	0.13	0.3001	0.0049	0.44277	85.96046629	1696	26	1973	44
CC01_13 - 111	4.487	0.11	0.2829	0.0059	0.73598	85.50879062	1605	29	1877	39
CC01_13 - 104	5.479	0.12	0.3124	0.0048	0.77041	85.50512445	1752	24	2049	35
CC01_13 - 108	4.984	0.11	0.2969	0.0064	0.36514	85.45918367	1675	32	1960	49
CC01_13 - 118	4.171	0.099	0.272	0.0043	0.75884	85.4315558	1554	23	1819	40
CC01_13 - 80	5.06	0.17	0.3014	0.0072	0.821	84.89244622	1697	36	1999	43
CC01_13 - 11	4.792	0.1	0.2881	0.0035	0.35186	82.71667511	1632	17	1973	36
CC01_13 - 28	4.127	0.092	0.2611	0.0036	0.439	79.81847304	1495	18	1873	39
CC01_13 - 68	19.2	0.45	0.5081	0.01	0.88949	79.77697408	2647	43	3318	30
CC01_13 - 102	4.49	0.13	0.2666	0.0046	0.73297	76.72544081	1523	23	1985	40

CC01_13 - 79	4.585	0.098	0.2666	0.0039	0.39699	75.1727542	1523	20	2026	40
CC01_13 - 95	4.146	0.11	0.2521	0.0045	0.80495	75.03875969	1452	24	1935	39
CC01_13 - 46	3.705	0.11	0.2385	0.0041	0.30881	74.90494297	1379	21	1841	48
CC01_13 - 90	3.84	0.19	0.243	0.011	0.96284	74.89293362	1399	59	1868	36
CC01_13 - 89	8.03	0.17	0.3399	0.005	0.72797	73.35667056	1886	24	2571	32
CC01_13 - 54	3.7	0.19	0.234	0.012	0.86874	72.87405813	1354	60	1858	43
CC01_13 - 45	3.62	0.13	0.2312	0.0066	0.85248	70.6969377	1339	35	1894	42
CC01_13 - 76	4	0.17	0.2375	0.0072	0.47963	70.68521381	1372	38	1941	74
CC01_13 - 114	4.593	0.1	0.2572	0.0034	0.77779	70.57416268	1475	18	2090	32
CC01_13 - 113	3.62	0.085	0.2273	0.0032	0.72928	69.65699208	1320	17	1895	36
CC01_13 - 29	4.375	0.11	0.248	0.0037	0.64503	69.11907067	1428	19	2066	39
CC01_13 - 49	3.988	0.098	0.2366	0.0048	0.74073	69.10651186	1369	25	1981	38
CC01_13 - 42	5.4	0.19	0.2749	0.0097	0.96169	68.97616946	1563	49	2266	32
CC01_13 - 83	4.41	0.18	0.247	0.0069	0.92281	68.49710983	1422	36	2076	40
CC01_13 - 34	4.262	0.096	0.2429	0.0029	0.52306	68.35689907	1402	15	2051	36
CC01_13 - 67	4.452	0.12	0.2463	0.006	0.92128	67.31499051	1419	31	2108	33
CC01_13 - 12	4.282	0.11	0.2424	0.0053	0.80246	66.87380497	1399	27	2092	38
CC01_13 - 126	3.521	0.082	0.2152	0.0047	0.87417	65.14522822	1256	25	1928	37
CC01_13 - 52	4.81	0.14	0.2501	0.0059	0.82362	65.00904159	1438	30	2212	35
CC01_13 - 96	4.239	0.086	0.2355	0.0031	0.47541	64.96663489	1363	16	2098	36
CC01_13 - 110	3.236	0.084	0.2056	0.0038	0.79412	64.68062265	1205	20	1863	35
CC01_13 - 109	3.219	0.096	0.203	0.0051	0.79865	64.41319632	1191	27	1849	40
CC01_13 - 78	5.327	0.12	0.2574	0.0037	0.71009	63.23907455	1476	19	2334	33
CC01_13 - 31	3.725	0.078	0.2143	0.0027	0.81648	61.05417277	1251	14	2049	32
CC01_13 - 35	3.605	0.096	0.2073	0.0032	0.43741	60.27736503	1217	18	2019	44
CC01_13 - 19	6.22	0.18	0.2668	0.0054	0.89022	59.88212181	1524	27	2545	33
CC01_13 - 62	3.85	0.12	0.2133	0.0051	0.73708	59.30509281	1246	27	2101	42
CC01_13 - 15	3.35	0.14	0.195	0.0068	0.97019	56.92307692	1147	36	2015	35
CC01_13 - 64	3.889	0.09	0.2082	0.0031	0.85198	56.5136764	1219	16	2157	33
CC01_13 - 88	3.15	0.19	0.1867	0.0099	0.97821	56.14482407	1101	53	1961	35
CC01_13 - 69	3.44	0.15	0.195	0.0078	0.88436	55.6851312	1146	42	2058	35
CC01_13 - 40	4.143	0.086	0.208	0.0025	0.53237	53.57677079	1217.8	13	2273	33
CC01_13 - 125	2.681	0.1	0.1679	0.0047	0.82264	52.99417064	1000	26	1887	41
CC01_13 - 53	3.26	0.16	0.1839	0.0074	0.9806	52.58829221	1087	40	2067	34
CC01_13 - 105	2.957	0.094	0.1735	0.0048	0.89117	51.44710579	1031	26	2004	38
CC01_13 - 63	3.465	0.099	0.1862	0.0038	0.91668	51.13583681	1103	20	2157	33
CC01_13 - 48	3.34	0.17	0.1811	0.0073	0.96358	50.163781	1072	40	2137	37
CC01_13 - 1	2.93	0.21	0.166	0.011	0.98178	47.67891683	986	60	2068	36
CC01_13 - 24	3.149	0.089	0.1704	0.0043	0.91858	47.27272727	1014	24	2145	33
CC01_13 - 32	2.859	0.066	0.1596	0.0027	0.76639	45.88744589	954	15	2079	35
CC01_13 - 94	2.827	0.1	0.1565	0.0043	0.80385	45.30120482	940	25	2075	47

CC01_13 - 92	3.38	0.18	0.1663	0.0077	0.98119	43.21041215	996	44	2305	32
CC01_13 - 56	3.47	0.18	0.1673	0.0073	0.94934	42.77777778	1001	39	2340	39
CC01_13 - 3	2.327	0.083	0.1378	0.0044	0.96753	41.63326653	831	25	1996	33
CC01_13 - 70	3.74	0.12	0.1606	0.0026	0.50361	37.57338552	960	14	2555	52
CC01_13 - 121	2.761	0.083	0.1326	0.0034	0.75782	34.02630462	802	19	2357	37
CC01_13 - 82	1.57	0.12	0.0978	0.006	0.99292	31.74603175	600	35	1890	41
CC01_13 - 71	1.644	0.051	0.097	0.0026	0.91847	30.06042296	597	15	1986	36
CC01_13 - 74	1.608	0.088	0.0944	0.0039	0.85992	29.82546201	581	23	1948	46
CC04_15 - 66	4.84	0.1	0.3251	0.0039	0.19928	103.1267766	1814	19	1759	40
CC04_15 - 58	4.737	0.08	0.3205	0.0037	0.1066	102.8064147	1795	18	1746	37
CC04_15 - 115	5.207	0.097	0.3366	0.0032	0.23086	102.4657534	1870	16	1825	35
CC04_15 - 112	5.491	0.06	0.3449	0.0027	0.12289	101.9754405	1910	13	1873	24
CC04_15 - 82	4.67	0.12	0.3159	0.0036	0.26963	101.6666667	1769	18	1740	44
CC04_15 - 63	11.37	0.18	0.4911	0.0048	0.40018	101.6179953	2575	21	2534	25
CC04_15 - 40	5.46	0.084	0.344	0.0035	0.17373	101.5450186	1906	17	1877	30
CC04_15 - 44	4.78	0.08	0.3192	0.0022	0.33789	101.4188422	1787	11	1762	26
CC04_15 - 42	4.81	0.1	0.32	0.0031	0.18238	101.3597734	1789	15	1765	35
CC04_15 - 57	5.412	0.07	0.3419	0.003	0.53773	101.3368984	1895	15	1870	20
CC04_15 - 89	4.692	0.06	0.316	0.002	0.12448	101.1485714	1770.1	9.6	1750	25
CC04_15 - 22	4.755	0.062	0.3191	0.0028	0.069474	101.0758777	1785	14	1766	21
CC04_15 - 43	4.676	0.07	0.3154	0.0027	0.41602	100.9714286	1767	13	1750	25
CC04_15 - 25	4.854	0.06	0.3218	0.002	0.31129	100.9539843	1799	10	1782	25
CC04_15 - 113	11.19	0.16	0.4844	0.0048	0.25096	100.7120253	2546	21	2528	26
CC04_15 - 3	5.455	0.058	0.3419	0.0031	0.50983	100.4769475	1896	15	1887	18
CC04_15 - 84	5.175	0.093	0.3328	0.0034	0.34533	100.3794038	1852	16	1845	32
CC04_15 - 2	4.697	0.088	0.3162	0.0031	0.34883	100.3399433	1771	15	1765	36
CC04_15 - 75	4.87	0.084	0.3209	0.0033	0.25005	100.3355705	1794	16	1788	33
CC04_15 - 100	5.017	0.04	0.326	0.0025	0.32667	100.3309432	1819	12	1813	16
CC04_15 - 47	6.529	0.092	0.3749	0.0042	0.48787	100.2442599	2052	20	2047	25
CC04_15 - 105	4.579	0.062	0.3104	0.0021	0.37241	100.1724138	1743	11	1740	22
CC04_15 - 91	4.991	0.071	0.3251	0.0026	0.31702	100.1103753	1814	13	1812	25
CC04_15 - 74	4.747	0.057	0.3164	0.0022	0.22505	99.83098592	1772	11	1775	21
CC04_15 - 110	5.334	0.093	0.3371	0.0031	0.36866	99.78678038	1872	15	1876	28
CC04_15 - 62	4.827	0.057	0.3187	0.0024	0.28324	99.77616116	1783	12	1787	22
CC04_15 - 121	4.825	0.084	0.3178	0.0052	0.63921	98.6681465	1778	25	1802	29
CC04_15 - 73	4.544	0.075	0.3065	0.0032	0.19142	98.62621637	1723	16	1747	32
CC04_15 - 120	4.517	0.077	0.3052	0.0031	0.31375	97.89053592	1717	15	1754	33
CC04_15 - 60	4.993	0.079	0.3196	0.0032	0.19675	97.17698154	1790	15	1842	33
CC04_15 - 26	4.685	0.088	0.3108	0.0038	0.40239	96.94274597	1744	19	1799	36
CC04_15 - 23	4.513	0.076	0.3031	0.0034	0.56871	96.76687465	1706	17	1763	28
CC04_15 - 80	14.16	0.21	0.5196	0.0062	0.89799	96.63203153	2697	27	2791	18

CC04_15 - 83	9.14	0.14	0.4295	0.0065	0.80704	96.40016743	2303	29	2389	17
CC04_15 - 107	10.98	0.13	0.4646	0.0043	0.60178	96.20649198	2460	19	2557	16
CC04_15 - 104	6.03	0.15	0.3517	0.0077	0.68814	96.08910891	1941	37	2020	24
CC04_15 - 116	4.475	0.09	0.302	0.0053	0.3636	96.04743083	1701	26	1771	39
CC04_15 - 71	4.495	0.062	0.298	0.0024	0.43123	94.38517687	1681	12	1781	23
CC04_15 - 4	4.569	0.049	0.3004	0.0021	0.38227	94.31754875	1693	10	1795	21
CC04_15 - 76	4.21	0.089	0.2882	0.006	0.83387	93.73563218	1631	30	1740	21
CC04_15 - 34	4.311	0.074	0.2901	0.0031	0.67196	93.66799772	1642	16	1753	21
CC04_15 - 78	4.669	0.05	0.3033	0.0027	0.54708	93.5890411	1708	13	1825	19
CC04_15 - 68	5.023	0.058	0.3145	0.0031	0.46728	93.18181818	1763	15	1892	21
CC04_15 - 85	4.98	0.1	0.3123	0.0041	0.42909	93.14194577	1752	20	1881	37
CC04_15 - 97	4.934	0.072	0.3114	0.0038	0.85113	92.93680297	1750	18	1883	13
CC04_15 - 59	4.257	0.084	0.2875	0.0044	0.77698	92.51276234	1631	22	1763	21
CC04_15 - 79	12.83	0.21	0.4848	0.0058	0.66146	92.38302503	2547	25	2757	20
CC04_15 - 48	4.409	0.071	0.2898	0.0026	0.43851	91.82530795	1640	13	1786	26
CC04_15 - 54	4.612	0.059	0.2963	0.003	0.42266	91.62102957	1673	15	1826	20
CC04_15 - 86	5.08	0.074	0.3118	0.0047	0.73482	91.52276295	1749	23	1911	21
CC04_15 - 32	5.389	0.077	0.3225	0.0038	0.56119	90.88161209	1804	18	1985	22
CC04_15 - 46	4.552	0.053	0.2931	0.0023	0.34589	90.39825423	1657	11	1833	22
CC04_15 - 77	4.752	0.076	0.2994	0.0052	0.45262	90.3640257	1688	26	1868	32
CC04_15 - 12	4.41	0.1	0.2871	0.0031	0.15543	89.88950276	1627	16	1810	44
CC04_15 - 30	4.363	0.068	0.2862	0.0027	0.49194	89.86710963	1623	13	1806	24
CC04_15 - 61	9.28	0.11	0.4104	0.0048	0.65147	88.92455859	2216	22	2492	17
CC04_15 - 94	4.31	0.1	0.2811	0.0064	0.49177	88.3231876	1596	32	1807	37
CC04_15 - 92	4.628	0.077	0.2912	0.0036	0.56454	88.07486631	1647	18	1870	25
CC04_15 - 117	5.72	0.12	0.3254	0.0048	0.76117	88.06404658	1815	24	2061	19
CC04_15 - 6	4.78	0.12	0.2959	0.0084	0.88825	87.19958203	1669	41	1914	23
CC04_15 - 15	4.087	0.082	0.271	0.0052	0.69759	86.846543	1545	26	1779	34
CC04_15 - 10	4.169	0.094	0.2739	0.0041	0.56019	86.36112645	1564	20	1811	33
CC04_15 - 65	5.06	0.065	0.3014	0.0028	0.57268	86.14916286	1698	14	1971	20
CC04_15 - 45	4.975	0.045	0.299	0.0023	0.4117	85.80152672	1686	11	1965	17
CC04_15 - 1	4.32	0.1	0.2757	0.0057	0.90828	84.98644986	1568	29	1845	15
CC04_15 - 81	4.551	0.071	0.2836	0.0033	0.59492	84.90765172	1609	16	1895	24
CC04_15 - 8	4.908	0.081	0.2917	0.0052	0.63924	83.52703386	1653	25	1979	23
CC04_15 - 87	4.682	0.055	0.2842	0.003	0.41774	83.33333333	1615	16	1938	18
CC04_15 - 70	4.487	0.073	0.2762	0.0037	0.53975	82.51968504	1572	19	1905	29
CC04_15 - 72	4.39	0.088	0.2709	0.004	0.7762	80.72100313	1545	20	1914	24
CC04_15 - 88	4.135	0.097	0.2628	0.0067	0.84533	79.90430622	1503	34	1881	30
CC04_15 - 102	4.39	0.077	0.2678	0.0042	0.6717	78.97727273	1529	22	1936	24
CC04_15 - 106	3.77	0.13	0.2437	0.0088	0.93938	76.33297062	1403	45	1838	20
CC04_15 - 7	3.667	0.055	0.2387	0.0028	0.65288	76.28524046	1380	14	1809	20

CC04_15 - 118	3.86	0.1	0.2441	0.008	0.90509	75.46967257	1406	41	1863	20
CC04_15 - 114	3.46	0.1	0.2292	0.0058	0.76556	75.3968254	1330	30	1764	37
CC04_15 - 18	5.12	0.19	0.2824	0.0059	0.88648	75.11715089	1603	30	2134	32
CC04_15 - 93	4.702	0.071	0.2677	0.0045	0.58356	74.40389294	1529	23	2055	24
CC04_15 - 13	3.698	0.054	0.2362	0.0029	0.47582	74.36175991	1369	15	1841	25
CC04_15 - 39	4.05	0.15	0.2451	0.0095	0.94239	73.41968912	1417	48	1930	23
CC04_15 - 36	3.867	0.067	0.2391	0.0034	0.62283	72.31815803	1382	18	1911	23
CC04_15 - 64	4.326	0.087	0.2522	0.0037	0.48474	72.01789264	1449	19	2012	32
CC04_15 - 98	4.108	0.089	0.2445	0.0054	0.79658	71.90209077	1410	28	1961	21
CC04_15 - 24	8.25	0.13	0.3358	0.0049	0.8049	70.95057034	1866	24	2630	15
CC04_15 - 55	7.64	0.14	0.3228	0.0066	0.81689	70.5399061	1803	32	2556	17
CC04_15 - 20	3.521	0.081	0.2252	0.0036	0.73267	70.03745318	1309	19	1869	25
CC04_15 - 29	3.235	0.056	0.214	0.0033	0.71387	69.87143656	1250	18	1789	21
CC04_15 - 49	3.851	0.074	0.2346	0.0044	0.39599	69.35648621	1358	23	1958	33
CC04_15 - 90	3.998	0.055	0.2347	0.0037	0.79438	68.32579186	1359	19	1989	17
CC04_15 - 41	13.45	0.34	0.3944	0.0064	0.78682	68.17026684	2146	30	3148	23
CC04_15 - 5	7.578	0.094	0.3148	0.004	0.80032	67.9245283	1764	20	2597	13
CC04_15 - 109	3.975	0.052	0.233	0.0033	0.62584	67.19761075	1350	17	2009	20
CC04_15 - 53	3.863	0.049	0.2279	0.0035	0.49299	66.58278812	1323	18	1987	25
CC04_15 - 38	4.137	0.073	0.2348	0.0038	0.73093	66.09922179	1359	20	2056	23
CC04_15 - 16	6.33	0.13	0.2854	0.0053	0.87992	65.55915721	1618	27	2468	15
CC04_15 - 108	6.72	0.13	0.2844	0.0061	0.93578	63.37254902	1616	30	2550	11
CC04_15 - 69	3.85	0.13	0.2214	0.0061	0.90368	63.3546483	1288	32	2033	24
CC04_15 - 95	4.066	0.072	0.2266	0.0033	0.83066	63.07471264	1317	17	2088	16
CC04_15 - 67	3.163	0.066	0.201	0.0037	0.80981	62.89978678	1180	20	1876	19
CC04_15 - 50	11.5	0.3	0.3467	0.005	0.29775	61.61259235	1918	24	3113	40
CC04_15 - 33	3.15	0.11	0.1976	0.0067	0.94085	61.61187699	1162	36	1886	23
CC04_15 - 9	4.21	0.11	0.227	0.01	0.96262	60.69284065	1314	54	2165	35
CC04_15 - 52	3.156	0.067	0.1933	0.0037	0.89652	59.35383012	1139	20	1919	16
CC04_15 - 99	3.89	0.13	0.2129	0.008	0.91253	58.91840607	1242	42	2108	23
CC04_15 - 103	4.001	0.083	0.2156	0.0046	0.7356	58.45724907	1258	24	2152	20
CC04_15 - 19	3.533	0.057	0.2014	0.0025	0.29958	58.05977462	1185	14	2041	30
CC04_15 - 96	3.308	0.063	0.1939	0.0039	0.67646	56.7312469	1142	21	2013	28
CC04_15 - 35	4.91	0.086	0.231	0.0037	0.90669	56.0904144	1340	19	2389	12
CC04_15 - 56	3.157	0.093	0.1859	0.0046	0.9441	54.75834579	1099	25	2007	18
CC04_15 - 111	3.169	0.038	0.1837	0.0018	0.75434	54.21446384	1087	9.8	2005	15
CC04_15 - 27	4.477	0.079	0.208	0.004	0.7828	50.37220844	1218	21	2418	20
CC04_15 - 37	2.835	0.046	0.1578	0.0023	0.45942	45.47641963	945	13	2078	26
CC04_15 - 119	2.545	0.088	0.1355	0.0034	0.81959	38.41463415	819	19	2132	34
CC04_15 - 21	2.804	0.066	0.1372	0.003	0.85411	35.67125645	829	17	2324	19
CC04_15 - 14	1.85	0.098	0.111	0.005	0.9731	34.53897096	678	29	1963	25

CC04_15 - 51	1.339	0.025	0.0933	0.0016	0.82387	34.15083135	575.1	9.3	1684	20
CC04_15 - 11	2.155	0.074	0.1182	0.0042	0.95016	34.12322275	720	24	2110	19
CC04_15 - 17	1.855	0.081	0.1015	0.0036	0.95539	29.45626478	623	21	2115	23
CC04_15 - 28	1.72	0.12	0.0941	0.0074	0.9756	27.1321462	579	43	2134	35
CC04_15 - 31	1.236	0.049	0.0765	0.003	0.97843	24.79123173	475	18	1916	14
CC04_15 - 101	0.584	0.021	0.0386	0.0013	0.96101	13.52549889	244	8.4	1804	20

All U–Pb data for Wollogorang Formation

Analysis	207Pb/235U	Error	206Pb/238U	Error	rho	Concordance	206Pb/238U	Error	207Pb/206Pb	Error
CC06_01 - 119	8.22	0.47	0.42	0.014	0.9213	102.0823902	2255	63	2209	51
CC06_01 - 92	5.36	0.1	0.3395	0.0026	0.20026	101.0729614	1884	12	1864	42
CC06_01 - 7	5	0.12	0.3256	0.0032	0.42992	100.7764836	1817	16	1803	48
CC06_01 - 84	4.738	0.084	0.3166	0.003	0.30785	100.567215	1773	15	1763	43
CC06_01 - 114	5.583	0.087	0.3452	0.0027	0.27808	100.4731861	1911	13	1902	40
CC06_01 - 101	11.56	0.16	0.4908	0.0036	0.22059	100.2336449	2574	15	2568	34
CC06_01 - 20	5.548	0.11	0.3441	0.0042	0.31696	100.1576458	1906	20	1903	46
CC06_01 - 104	4.879	0.081	0.3228	0.0035	0.24689	100.1110494	1803	17	1801	43
CC06_01 - 86	4.673	0.075	0.3144	0.0023	0.0028203	100.0567859	1762	11	1761	42
CC06_01 - 47	11.46	0.35	0.487	0.012	0.31169	100	2552	52	2552	64
CC06_01 - 71	10.75	0.17	0.473	0.0046	0.38651	99.95995194	2496	20	2497	36
CC06_01 - 18	11.86	0.15	0.4924	0.0033	0.48269	99.76807112	2581	14	2587	34
CC06_01 - 29	10.48	0.43	0.47	0.015	0.60544	99.43820225	2478	66	2492	63
CC06_01 - 1	4.798	0.094	0.3172	0.0032	0.30393	99.05186838	1776	16	1793	45
CC06_01 - 23	4.697	0.099	0.3141	0.0036	0.28932	98.93198426	1760	18	1779	44
CC06_01 - 113	15.85	0.32	0.5538	0.008	0.31343	98.71527778	2843	33	2880	41
CC06_01 - 38	4.849	0.1	0.3174	0.0042	0.082767	98.61265261	1777	21	1802	52
CC06_01 - 83	4.709	0.1	0.3092	0.0029	0.21095	96.98324022	1736	14	1790	51
CC06_01 - 60	4.9	0.14	0.3172	0.0054	0.35052	96.782988	1775	26	1834	51
CC06_01 - 105	4.517	0.083	0.3031	0.0031	0.469	96.05855856	1706	15	1776	40
CC06_01 - 55	8.92	0.17	0.4145	0.0046	0.093034	93.05901912	2239	20	2406	43

CC06_01 - 48	4.689	0.084	0.2996	0.0026	0.069694	92.49726177	1689	13	1826	41
CC06_01 - 64	4.608	0.11	0.2968	0.0051	0.57811	91.48006554	1675	25	1831	45
CC06_01 - 91	4.191	0.092	0.2769	0.0027	0.40585	87.45141588	1575	14	1801	47
CC06_01 - 13	4.248	0.1	0.2792	0.0068	0.70078	86.6193337	1586	34	1831	45
CC06_01 - 78	3.914	0.099	0.2648	0.0046	0.6212	85.77903683	1514	23	1765	44
CC06_01 - 70	4.17	0.077	0.2712	0.0041	0.512	85.03850385	1546	21	1818	42
CC06_01 - 102	14.9	1.1	0.479	0.021	0.95631	84.38337802	2518	92	2984	68
CC06_01 - 24	4.509	0.078	0.2737	0.0037	0.65248	79.98973833	1559	19	1949	38
CC06_01 - 90	4.12	0.26	0.261	0.016	0.94189	79.59401709	1490	81	1872	42
CC06_01 - 66	8.4	0.16	0.3622	0.0052	0.77758	78.64192657	1992	25	2533	33
CC06_01 - 53	6.96	0.18	0.3264	0.0081	0.88317	76.12687813	1824	39	2396	36
CC06_01 - 2	3.53	0.08	0.2328	0.0024	0.48724	75.44742729	1349	12	1788	45
CC06_01 - 110	3.434	0.08	0.2306	0.0038	0.62044	75.36640361	1337	20	1774	45
CC06_01 - 59	5.36	0.14	0.2793	0.0042	0.72159	72.07084469	1587	21	2202	41
CC06_01 - 65	3.848	0.066	0.2381	0.0031	0.57301	71.86847599	1377	16	1916	38
CC06_01 - 63	4.172	0.088	0.2457	0.0038	0.42499	70.97744361	1416	19	1995	41
CC06_01 - 5	10.3	0.17	0.3653	0.004	0.55153	70.32235459	2007	19	2854	34
CC06_01 - 49	3.647	0.063	0.2276	0.0026	0.27424	69.91010048	1322	14	1891	40
CC06_01 - 121	3.37	0.13	0.2151	0.0079	0.93131	68.36127637	1264	40	1849	39
CC06_01 - 41	3.788	0.092	0.223	0.0042	0.62046	65.20864756	1297	22	1989	43
CC06_01 - 31	3.55	0.16	0.213	0.011	0.94321	64.19057377	1253	56	1952	43
CC06_01 - 39	6.819	0.11	0.2874	0.0034	0.63563	63.32166472	1628	17	2571	37
CC06_01 - 36	4.05	0.12	0.2289	0.0048	0.72014	63.23809524	1328	26	2100	47
CC06_01 - 34	3.071	0.063	0.1974	0.0022	0.36024	62.75675676	1161	12	1850	42
CC06_01 - 72	3.107	0.062	0.1947	0.0022	0.60356	61.0106383	1147	12	1880	39
CC06_01 - 52	6.19	0.16	0.2672	0.0057	0.88416	60.29237456	1526	29	2531	34
CC06_01 - 73	2.96	0.11	0.1915	0.0072	0.78493	60.06389776	1128	39	1878	55
CC06_01 - 62	3.034	0.073	0.191	0.0031	0.62963	59.91493886	1127	17	1881	42
CC06_01 - 69	2.696	0.083	0.1729	0.0044	0.8472	55.46580506	1030	24	1857	41
CC06_01 - 61	5.05	0.16	0.2275	0.0068	0.86328	53.85556916	1320	36	2451	42
CC06_01 - 68	2.682	0.069	0.1651	0.0029	0.80369	51.38236828	985	16	1917	40
CC06_01 - 98	2.68	0.1	0.1641	0.0066	0.91606	51.17739403	978	37	1911	43
CC06_01 - 17	2.695	0.081	0.1632	0.0042	0.87087	50.07712082	974	23	1945	39
CC06_01 - 107	2.616	0.086	0.1594	0.0047	0.8404	48.97225077	953	26	1946	45
CC06_01 - 97	2.72	0.11	0.1581	0.007	0.92615	47.16699801	949	39	2012	42
CC06_01 - 118	2.584	0.088	0.1545	0.0047	0.84425	46.78806272	925	26	1977	43
CC06_01 - 116	2.18	0.11	0.1347	0.0068	0.94317	42.18181818	812	38	1925	43

CC06_01 - 81	2.454	0.074	0.1402	0.004	0.88439	41.07924161	845	23	2057	40
CC06_01 - 82	2.09	0.1	0.1296	0.006	0.90068	40.76963079	784	34	1923	49
CC06_01 - 43	3.673	0.085	0.1652	0.0027	0.76833	39.74979822	985	15	2478	38
CC06_01 - 10	2.146	0.099	0.1277	0.0061	0.91983	39.25850686	773	35	1969	44
CC06_01 - 54	2.38	0.072	0.1318	0.0031	0.8743	38.58800774	798	18	2068	41
CC06_01 - 44	2.326	0.066	0.1309	0.0025	0.62377	38.25373854	793	14	2073	45
CC06_01 - 35	3.889	0.067	0.1638	0.0021	0.43095	37.96583851	978	12	2576	39
CC06_01 - 87	1.95	0.19	0.12	0.012	0.98482	37.64278297	725	70	1926	42
CC06_01 - 103	1.874	0.046	0.1079	0.0023	0.83523	32.49754179	661	14	2034	38
CC06_01 - 112	3.42	0.18	0.1382	0.0075	0.9739	31.68505135	833	43	2629	36
CC06_01 - 32	1.6	0.088	0.0984	0.0054	0.94458	31.32780083	604	32	1928	41
CC06_01 - 115	1.729	0.05	0.1008	0.0026	0.86255	30.91908092	619	15	2002	39
CC06_01 - 96	1.621	0.06	0.0983	0.0036	0.83955	30.83205717	604	21	1959	41
CC06_01 - 79	1.695	0.067	0.0993	0.0046	0.94456	29.74158947	610	27	2051	38
CC06_01 - 30	1.753	0.029	0.0965	0.001	0.4752	28.20902613	593.8	6.1	2105	37
CC06_01 - 42	1.759	0.067	0.0945	0.0041	0.83604	26.80792262	582	24	2171	50
CC06_01 - 9	3.116	0.069	0.1184	0.0025	0.8256	26.45444566	723	15	2733	38
CC06_01 - 109	1.506	0.034	0.085	0.002	0.73056	25.53398058	526	12	2060	41
CC06_01 - 11	1.487	0.061	0.0828	0.0037	0.92921	24.79577126	516	22	2081	41
CC06_01 - 25	1.47	0.23	0.08	0.014	0.99344	23.20541761	514	89	2215	51
CC06_01 - 89	1.245	0.048	0.0696	0.0024	0.91213	20.42352941	434	15	2125	46
CC06_01 - 80	8.77	0.51	0.1378	0.0065	0.96851	20.20447907	830	37	4108	35
CC06_01 - 106	1.141	0.034	0.066	0.0024	0.85765	20.03900536	411	14	2051	42
CC06_01 - 94	1.765	0.094	0.079	0.0043	0.97982	19.84609154	490	26	2469	34
CC06_01 - 4	1.36	0.14	0.0692	0.0075	0.97823	19.08566356	430	46	2253	50
CC06_01 - 22	1.365	0.036	0.0682	0.0018	0.89942	18.67311072	425	11	2276	36
CC06_01 - 88	1.656	0.038	0.0703	0.0015	0.91617	17.15405723	437.6	9.1	2551	31
CC06_01 - 27	1.77	0.16	0.0711	0.0065	0.99014	16.5851824	441	39	2659	35
CC06_01 - 77	0.975	0.041	0.0529	0.0024	0.89626	15.82459485	332	15	2098	50
CC06_01 - 75	1.09	0.041	0.0559	0.0024	0.83764	15.63896336	350	15	2238	45
CC06_01 - 15	1.017	0.023	0.0526	0.0015	0.65353	14.79390681	330.2	9	2232	46
CC06_01 - 50	0.993	0.049	0.0503	0.0029	0.95658	13.98230088	316	18	2260	42
CC06_01 - 19	1	0.052	0.05	0.0031	0.96254	13.64624076	314	19	2301	42
CC06_01 - 33	0.928	0.078	0.0476	0.0038	0.98137	13.39005822	299	24	2233	39
CC06_01 - 58	0.93	0.048	0.0467	0.0024	0.9018	12.93444787	294	15	2273	51
CC06_01 - 56	0.84	0.018	0.04356	0.00083	0.72795	12.46258503	274.8	5.1	2205	39
CC06_01 - 93	0.897	0.027	0.0446	0.0014	0.7823	12.30398598	280.9	8.5	2283	44

CC06_01 - 37	0.8	0.017	0.042	0.00073	0.69953	12.09854015	265.2	4.5	2192	40
CC06_01 - 16	0.834	0.094	0.0429	0.0054	0.99379	12.00892857	269	33	2240	43
CC06_01 - 21	1.082	0.038	0.0459	0.0019	0.86088	11.21459061	289	12	2577	46
CC06_01 - 28	0.851	0.015	0.04014	0.00055	0.71786	10.74089754	253.7	3.4	2362	35
CC06_01 - 99	0.733	0.015	0.03533	0.00073	0.69847	9.511262218	223.8	4.6	2353	39
CC06_01 - 6	0.693	0.026	0.0343	0.0015	0.92992	9.317596567	217.1	9.3	2330	38
CC06_01 - 57	1.078	0.043	0.0378	0.0015	0.93044	8.257863809	238.9	9.4	2893	36
CC06_01 - 51	0.618	0.037	0.0287	0.0022	0.93038	7.392363932	182	14	2462	49
CC06_01 - 45	0.628	0.02	0.02812	0.00086	0.88711	7.191146881	178.7	5.4	2485	36
CC06_01 - 76	0.569	0.016	0.0269	0.001	0.8938	7.142857143	171	6.5	2394	42
CC06_01 - 108	0.549	0.019	0.0255	0.0009	0.91767	6.692783505	162.3	5.7	2425	37
CC06_01 - 12	0.499	0.019	0.02408	0.00091	0.92122	6.580866581	153.4	5.8	2331	39
CC06_01 - 74	0.49	0.024	0.0236	0.0013	0.95124	6.342182891	150.5	8.2	2373	41
CC06_01 - 100	0.544	0.049	0.025	0.0029	0.97186	6.245090338	159	18	2546	49
CC06_01 - 40	0.568	0.017	0.0246	0.0008	0.86535	6.211820706	156.6	5	2521	38
CC06_01 - 3	0.484	0.015	0.0225	0.00083	0.84656	6.007540846	143.4	5.2	2387	46
CC06_01 - 67	0.47	0.012	0.02112	0.00074	0.87064	5.438029875	134.7	4.7	2477	39
CC06_01 - 111	0.4306	0.01	0.0196	0.0004	0.76926	5.129151292	125.1	2.5	2439	37
CC06_01 - 117	0.3785	0.011	0.01808	0.00039	0.74666	4.919080068	115.5	2.4	2348	40
CC06_01 - 46	0.48	0.039	0.019	0.0018	0.98329	4.401600582	121	12	2749	43
CC06_01 - 95	0.418	0.024	0.0177	0.0012	0.97142	4.392523364	112.8	7.8	2568	44
CC06_01 - 85	0.3348	0.0082	0.01589	0.00045	0.94916	4.272497897	101.6	2.9	2378	38
CC06_01 - 14	0.383	0.027	0.0152	0.0012	0.98433	3.562247521	97	7.9	2723	41
CC06_01 - 26	0.4095	0.0084	0.01526	0.00033	0.73791	3.529837251	97.6	2.1	2765	39
CC06_01 - 120	0.3295	0.0057	0.01294	0.00011	0.33288	3.088301043	82.89	0.72	2684	36
CC06_01 - 8	0.2255	0.0095	0.00835	0.00047	0.94461	1.914969632	53.6	3	2799	44
CC05_02 - 37	4.854	0.06	0.3216	0.0026	0.26256	101.0686164	1797	13	1778	24
CC05_02 - 15	4.7	0.069	0.316	0.0026	0.26889	100.9697661	1770	13	1753	28
CC05_02 - 65	5.043	0.098	0.3272	0.0035	0.38718	100.8278146	1827	18	1812	32
CC05_02 - 90	4.851	0.079	0.3209	0.0034	0.31736	100.6169377	1794	17	1783	32
CC05_02 - 66	5.35	0.13	0.3395	0.0035	0.31123	100.3729355	1884	17	1877	42
CC05_02 - 62	4.701	0.082	0.3139	0.0029	0.16894	100.2849003	1760	14	1755	32
CC05_02 - 64	11.13	0.2	0.4806	0.0075	0.61382	100.1187648	2529	33	2526	27
CC05_02 - 26	5.36	0.12	0.3385	0.005	0.62737	100.106553	1879	24	1877	28
CC05_02 - 27	5.056	0.082	0.329	0.003	0.36953	99.94547437	1833	15	1834	26
CC05_02 - 16	4.983	0.095	0.3246	0.0041	0.33554	99.9448428	1812	20	1813	34
CC05_02 - 43	4.658	0.066	0.3137	0.0031	0.28191	99.88642817	1759	15	1761	24

CC05_02 - 100	5.36	0.1	0.3354	0.0044	0.23485	99.67914439	1864	21	1870	36
CC05_02 - 79	6.259	0.083	0.3634	0.0035	0.1374	99.50199203	1998	17	2008	28
CC05_02 - 89	4.784	0.079	0.3165	0.003	0.43798	99.27293065	1775	14	1788	26
CC05_02 - 93	4.54	0.087	0.3101	0.0042	0.5762	99.2018244	1740	21	1754	36
CC05_02 - 84	4.714	0.074	0.3138	0.0027	0.29003	99.15445321	1759	13	1774	30
CC05_02 - 61	4.73	0.14	0.3164	0.0051	0.29928	98.82877858	1772	25	1793	55
CC05_02 - 55	6.453	0.091	0.3693	0.0043	0.32586	98.7810824	2026	20	2051	25
CC05_02 - 8	5.284	0.062	0.3307	0.0029	0.34857	98.45002672	1842	14	1871	23
CC05_02 - 53	4.616	0.073	0.3086	0.0028	0.030412	98.29931973	1734	14	1764	34
CC05_02 - 56	6.91	0.15	0.3799	0.0051	0.11794	98.1551561	2075	24	2114	39
CC05_02 - 38	4.74	0.12	0.3121	0.0047	0.18199	98.04031355	1751	23	1786	48
CC05_02 - 25	4.94	0.11	0.3197	0.004	0.17271	97.86535304	1788	19	1827	42
CC05_02 - 58	4.671	0.089	0.3082	0.0048	0.33654	97.4128234	1732	23	1778	38
CC05_02 - 83	4.785	0.067	0.3102	0.0024	0.19328	96.61674986	1742	12	1803	27
CC05_02 - 48	7.13	0.2	0.3827	0.0076	0.29916	96.57724329	2088	36	2162	44
CC05_02 - 67	9.75	0.15	0.44	0.0051	0.57038	96.47396474	2353	23	2439	20
CC05_02 - 34	5.111	0.073	0.3187	0.0039	0.22209	94.73963868	1783	19	1882	29
CC05_02 - 101	4.52	0.15	0.2977	0.0071	0.51966	94.5915493	1679	35	1775	52
CC05_02 - 92	4.82	0.11	0.3076	0.0044	0.40254	93.81107492	1728	22	1842	43
CC05_02 - 91	4.8	0.097	0.3048	0.0044	0.49696	92.65262021	1715	22	1851	31
CC05_02 - 40	4.93	0.13	0.3102	0.006	0.56376	92.11640212	1741	29	1890	38
CC05_02 - 44	4.94	0.065	0.3079	0.0034	0.33602	91.29287599	1730	17	1895	27
CC05_02 - 70	4.577	0.088	0.2958	0.0039	0.29813	91.15720524	1670	19	1832	35
CC05_02 - 5	4.808	0.087	0.3031	0.0045	0.38301	90.84132055	1706	22	1878	31
CC05_02 - 46	5.093	0.097	0.3114	0.004	0.53858	89.40634596	1747	19	1954	27
CC05_02 - 99	4.85	0.11	0.2986	0.0057	0.59187	87.70833333	1684	28	1920	34
CC05_02 - 94	4.446	0.092	0.2855	0.004	0.66713	87.32470334	1619	20	1854	29
CC05_02 - 80	4.633	0.09	0.2871	0.0049	0.56061	85.5865334	1627	25	1901	29
CC05_02 - 29	9.34	0.14	0.3975	0.0049	0.62926	84.62142016	2157	22	2549	21
CC05_02 - 51	6.43	0.16	0.3351	0.0077	0.81529	83.64044944	1861	37	2225	25
CC05_02 - 73	4.851	0.097	0.2887	0.005	0.68325	82.40040343	1634	25	1983	28
CC05_02 - 102	7.36	0.11	0.3511	0.0042	0.66316	82.37791932	1940	20	2355	21
CC05_02 - 41	4.058	0.073	0.26	0.004	0.67219	80.92391304	1489	20	1840	26
CC05_02 - 24	4.086	0.069	0.2607	0.0033	0.54333	80.09656652	1493	17	1864	30
CC05_02 - 14	19.64	0.52	0.471	0.012	0.90628	71.85249208	2494	53	3471	19
CC05_02 - 20	4.31	0.11	0.2451	0.0075	0.78269	68	1411	39	2075	31
CC05_02 - 68	3.56	0.15	0.217	0.0068	0.83707	65.27347781	1265	36	1938	38

CC05_02 - 21	4.04	0.1	0.2297	0.0045	0.60437	64.16184971	1332	24	2076	38
CC05_02 - 50	3.104	0.094	0.2008	0.0052	0.80401	63.69529984	1179	28	1851	32
CC05_02 - 60	3.106	0.064	0.1982	0.0035	0.66581	63.5032538	1171	20	1844	29
CC05_02 - 22	9.2	0.14	0.2847	0.004	0.78128	52.41961676	1614	20	3079	16
CC05_02 - 45	2.97	0.19	0.173	0.01	0.94128	50.22048016	1025	56	2041	39
CC05_02 - 4	2.957	0.099	0.169	0.0059	0.88361	49.24353343	1009	33	2049	27
CC05_02 - 75	3.02	0.12	0.1713	0.0069	0.91317	48.9894129	1018	38	2078	29
CC05_02 - 11	3.2	0.13	0.1666	0.0069	0.90719	44.78555305	992	38	2215	28
CC05_02 - 17	2.92	0.13	0.1567	0.0085	0.94072	43.90697674	944	46	2150	32
CC05_02 - 88	1.92	0.069	0.1156	0.0047	0.91833	35.9367024	704	27	1959	26
CC05_02 - 95	2.83	0.1	0.1374	0.0045	0.88764	35.7635893	829	26	2318	27
CC05_02 - 18	1.854	0.051	0.1093	0.0036	0.81891	33.97761953	668	21	1966	33
CC05_02 - 63	1.751	0.042	0.106	0.0026	0.80163	32.87740628	649	15	1974	25
CC05_02 - 3	2.047	0.092	0.1127	0.0059	0.94577	31.96835738	687	34	2149	27
CC05_02 - 74	1.88	0.065	0.107	0.0048	0.92252	31.89738625	659	27	2066	35
CC05_02 - 54	2.14	0.093	0.1135	0.0053	0.92935	31.67048055	692	31	2185	27
CC05_02 - 35	2.004	0.038	0.1093	0.0015	0.70489	31.42857143	668.8	8.6	2128	23
CC05_02 - 72	2.969	0.054	0.1273	0.0024	0.6465	30.34591195	772	14	2544	24
CC05_02 - 33	1.885	0.064	0.1038	0.0033	0.8807	30.02832861	636	19	2118	28
CC05_02 - 78	1.417	0.08	0.0906	0.0046	0.94238	29.83957219	558	27	1870	29
CC05_02 - 71	1.518	0.024	0.0894	0.0013	0.75435	27.78952669	551.9	7.6	1986	18
CC05_02 - 28	1.411	0.038	0.0808	0.0016	0.64007	24.43142997	500.6	9.7	2049	30
CC05_02 - 49	1.574	0.046	0.0847	0.0023	0.8891	24.42890443	524	14	2145	21
CC05_02 - 39	2.016	0.082	0.0935	0.004	0.90874	24.02001668	576	24	2398	28
CC05_02 - 10	1.785	0.036	0.0808	0.0017	0.85823	20.43691303	500.5	9.9	2449	17
CC05_02 - 32	1.255	0.02	0.06833	0.00088	0.71098	20.02820874	426	5.3	2127	19
CC05_02 - 52	1.328	0.045	0.0694	0.0023	0.88391	19.66317706	432	14	2197	24
CC05_02 - 76	1.817	0.078	0.0787	0.0035	0.95122	19.43448825	488	21	2511	20
CC05_02 - 19	1.124	0.02	0.06338	0.0009	0.44584	19.2655642	396.1	5.5	2056	28
CC05_02 - 2	1.487	0.03	0.0712	0.001	0.74777	18.92156863	443.9	6.1	2346	24
CC05_02 - 82	1.376	0.054	0.0677	0.0033	0.9206	18.39581517	422	20	2294	34
CC05_02 - 59	1.07	0.029	0.0608	0.0014	0.82009	18.17964644	380.5	8.8	2093	29
CC05_02 - 96	1.22	0.033	0.0629	0.0015	0.86581	17.62331839	393	9.4	2230	24
CC05_02 - 12	1.193	0.021	0.0623	0.0011	0.62488	17.60957976	389.7	6.5	2213	28
CC05_02 - 6	2.875	0.052	0.0852	0.0012	0.29281	16.88240948	526.9	6.9	3121	35
CC05_02 - 47	1.23	0.049	0.0616	0.0027	0.86786	16.69557676	385	16	2306	34
CC05_02 - 13	0.929	0.028	0.0533	0.0018	0.90288	16.34943875	335	11	2049	24

CC05_02 - 77	1.191	0.049	0.0591	0.0033	0.78395	15.94827586	370	20	2320	44
CC05_02 - 87	1.778	0.055	0.0684	0.0022	0.91045	15.60102302	427	13	2737	21
CC05_02 - 81	1.272	0.024	0.05809	0.00092	0.69219	14.93027071	364	5.6	2438	22
CC05_02 - 7	0.766	0.03	0.0458	0.002	0.896	14.73899693	288	13	1954	32
CC05_02 - 23	1.068	0.04	0.0531	0.0023	0.90549	14.71498011	333	14	2263	35
CC05_02 - 42	0.732	0.033	0.0439	0.0021	0.84809	14.17682927	279	13	1968	35
CC05_02 - 9	1.084	0.021	0.0511	0.001	0.78479	13.45332775	321.4	6.2	2389	21
CC05_02 - 69	1.065	0.039	0.0477	0.002	0.93228	12.1901666	300	12	2461	24
CC05_02 - 36	0.765	0.016	0.04002	0.00081	0.82766	11.50591447	252.9	5	2198	22
CC05_02 - 97	0.964	0.021	0.044	0.0011	0.83414	11.41563786	277.4	6.9	2430	23
CC05_02 - 31	0.857	0.026	0.0404	0.0013	0.93583	10.91492091	255.3	7.9	2339	38
CC05_02 - 1	1.324	0.039	0.0477	0.0021	0.90431	10.53001053	300	13	2849	30
CC05_02 - 57	0.84	0.047	0.036	0.0022	0.9693	8.898471188	227	14	2551	23
CC05_02 - 86	0.469	0.019	0.0269	0.0011	0.91736	8.447849728	170.9	6.7	2023	29
CC05_02 - 30	0.639	0.023	0.02965	0.00098	0.95578	7.819767442	188.3	6.1	2408	17
CC05_02 - 85	0.444	0.013	0.02379	0.00059	0.8451	7.02690167	151.5	3.7	2156	29
CC05_02 - 98	0.972	0.022	0.03	0.001	0.7277	6.19759506	190.7	6.3	3077	35
CC02_16 - 72	5.064	0.07	0.3364	0.0033	0.57083	105.2957746	1869	16	1775	23
CC02_16 - 82	4.974	0.057	0.3311	0.0024	0.35373	104.6538025	1844	12	1762	19
CC02_16 - 48	5.934	0.065	0.363	0.0024	0.50653	103.3661315	1996	11	1931	17
CC02_16 - 31	4.94	0.1	0.3272	0.0039	0.056864	102.2994952	1824	19	1783	43
CC02_16 - 58	5.875	0.089	0.3558	0.0037	0.3836	101.975052	1962	18	1924	27
CC02_16 - 122	5.317	0.07	0.3379	0.0026	0.31992	101.6793066	1877	13	1846	23
CC02_16 - 57	7.03	0.11	0.3892	0.0043	0.57606	101.4846743	2119	20	2088	24
CC02_16 - 29	5.387	0.086	0.3388	0.0039	0.58436	101.3469828	1881	19	1856	23
CC02_16 - 101	5.079	0.051	0.3306	0.0021	0.31499	101.1538462	1841	10	1820	17
CC02_16 - 35	4.78	0.1	0.3183	0.003	0.19665	101.1357183	1781	15	1761	43
CC02_16 - 25	5.692	0.071	0.3493	0.0038	0.40529	101.0465725	1931	18	1911	24
CC02_16 - 96	4.674	0.066	0.3145	0.003	0.20135	100.9163803	1762	15	1746	29
CC02_16 - 61	4.818	0.069	0.3205	0.0029	0.52757	100.6176305	1792	14	1781	23
CC02_16 - 60	5.404	0.072	0.3374	0.0033	0.43681	100.5904455	1874	16	1863	25
CC02_16 - 68	5.517	0.085	0.3435	0.0037	0.62596	100.3162889	1903	18	1897	21
CC02_16 - 97	5.521	0.097	0.3435	0.005	0.42352	100.3162889	1903	24	1897	32
CC02_16 - 85	6.261	0.077	0.3655	0.0031	0.27823	100.2496256	2008	15	2003	21
CC02_16 - 41	5.45	0.1	0.3418	0.0051	0.60443	100.1056524	1895	25	1893	32
CC02_16 - 112	4.724	0.061	0.3163	0.0031	0.67719	100.0564972	1771	15	1770	18
CC02_16 - 55	4.788	0.064	0.3177	0.0026	0.26363	100.0562746	1778	13	1777	23

CC02_16 - 19	4.928	0.081	0.3235	0.0027	0.46657	99.88944168	1807	13	1809	25
CC02_16 - 37	5.461	0.06	0.3411	0.0029	0.33267	99.63138494	1892	14	1899	20
CC02_16 - 88	4.594	0.065	0.3107	0.0028	0.65333	99.543379	1744	14	1752	20
CC02_16 - 50	5.325	0.079	0.3358	0.0044	0.49493	99.46695096	1866	21	1876	26
CC02_16 - 9	5.414	0.062	0.3388	0.002	0.41346	99.45002644	1880.6	9.8	1891	19
CC02_16 - 59	4.925	0.07	0.3215	0.0036	0.57682	99.44659657	1797	18	1807	23
CC02_16 - 26	11.2	0.14	0.481	0.0042	0.49028	99.41084053	2531	18	2546	19
CC02_16 - 102	5.917	0.095	0.3535	0.0041	0.33573	99.18657855	1951	20	1967	28
CC02_16 - 6	4.717	0.054	0.3136	0.0028	0.66893	98.59786876	1758	14	1783	20
CC02_16 - 18	5.14	0.12	0.3258	0.0053	0.3577	98.59002169	1818	26	1844	38
CC02_16 - 27	4.935	0.098	0.3211	0.003	0.5117	98.57221307	1795	15	1821	31
CC02_16 - 30	4.64	0.078	0.3106	0.003	0.18718	98.3643542	1744	15	1773	33
CC02_16 - 107	4.863	0.064	0.3172	0.0031	0.47376	97.95918367	1776	15	1813	22
CC02_16 - 36	4.961	0.079	0.3211	0.0033	0.3043	97.71366358	1795	16	1837	31
CC02_16 - 54	4.994	0.062	0.3183	0.0029	0.14713	97.42888403	1781	14	1828	28
CC02_16 - 39	5.997	0.079	0.3508	0.0032	0.45196	96.36996519	1938	15	2011	23
CC02_16 - 53	4.898	0.08	0.3153	0.0043	0.51345	95.97826087	1766	21	1840	24
CC02_16 - 133	5.452	0.049	0.3329	0.003	0.57288	95.76008273	1852	15	1934	17
CC02_16 - 76	4.901	0.062	0.3151	0.0044	0.65532	95.71583514	1765	22	1844	19
CC02_16 - 28	4.85	0.1	0.3114	0.0039	0.3957	95.41234298	1747	19	1831	35
CC02_16 - 103	5.422	0.079	0.3292	0.0036	0.504	94.97669601	1834	18	1931	22
CC02_16 - 71	5.285	0.064	0.3273	0.0029	0.33788	94.95317378	1825	14	1922	22
CC02_16 - 32	4.998	0.074	0.3161	0.0037	0.59419	94.60181721	1770	18	1871	22
CC02_16 - 8	7.18	0.12	0.3768	0.0029	0.17227	94.45462878	2061	14	2182	30
CC02_16 - 92	4.67	0.1	0.3037	0.005	0.84536	94.15977961	1709	25	1815	20
CC02_16 - 7	4.787	0.092	0.3078	0.005	0.62684	94.12084921	1729	24	1837	28
CC02_16 - 95	5.029	0.065	0.3162	0.0033	0.50859	94.10201913	1771	16	1882	23
CC02_16 - 83	5.571	0.074	0.3318	0.0029	0.56407	93.75634518	1847	14	1970	19
CC02_16 - 66	5.677	0.069	0.334	0.0043	0.32819	93.69323915	1857	21	1982	28
CC02_16 - 12	5.729	0.079	0.3378	0.0058	0.7456	93.46959123	1875	28	2006	21
CC02_16 - 65	4.719	0.074	0.3029	0.0031	0.57465	92.46203905	1705	15	1844	22
CC02_16 - 89	5.47	0.061	0.3271	0.0026	0.49621	92.26100152	1824	13	1977	21
CC02_16 - 90	4.204	0.055	0.2838	0.003	0.48615	91.9474586	1610	15	1751	21
CC02_16 - 15	4.732	0.064	0.3013	0.0032	0.59609	91.3394298	1698	16	1859	20
CC02_16 - 119	5.526	0.071	0.3198	0.002	0.26875	89.25648703	1788.7	9.9	2004	21
CC02_16 - 93	10.58	0.11	0.4351	0.0035	0.52452	89.05891354	2328	16	2614	15
CC02_16 - 33	5.026	0.088	0.3061	0.0033	0.32581	88.8946281	1721	16	1936	34

CC02_16 - 129	5.055	0.047	0.3065	0.0026	0.5403	88.86023724	1723	13	1939	15
CC02_16 - 16	5.45	0.065	0.3191	0.0039	0.21216	88.23529412	1785	19	2023	32
CC02_16 - 3	4.592	0.086	0.2912	0.0054	0.75964	87.886873	1647	27	1874	19
CC02_16 - 118	4.799	0.092	0.2952	0.0052	0.77842	87.50656168	1667	26	1905	24
CC02_16 - 134	4.946	0.05	0.2992	0.0027	0.57082	86.77983539	1687	13	1944	16
CC02_16 - 125	5.158	0.095	0.307	0.0047	0.23066	86.60311089	1726	23	1993	37
CC02_16 - 81	4.776	0.077	0.2936	0.0031	-0.054732	86.31633715	1659	15	1922	35
CC02_16 - 105	4.112	0.048	0.2702	0.0028	0.44581	84.95038589	1541	14	1814	22
CC02_16 - 127	5.54	0.28	0.314	0.014	0.93984	84.74903475	1756	68	2072	31
CC02_16 - 121	4.548	0.064	0.2812	0.0027	0.4896	83.48144276	1597	14	1913	23
CC02_16 - 44	4.5	0.14	0.2762	0.0071	0.86036	82.03655352	1571	36	1915	25
CC02_16 - 98	7.44	0.4	0.3497	0.0076	0.61546	81.47218737	1948	31	2391	95
CC02_16 - 126	4.104	0.058	0.2619	0.003	0.3936	80.68854223	1500	15	1859	27
CC02_16 - 52	4.508	0.064	0.2742	0.0023	0.39033	80.51546392	1562	12	1940	23
CC02_16 - 22	3.854	0.075	0.2526	0.0033	0.5516	80.03309432	1451	17	1813	28
CC02_16 - 120	5.209	0.08	0.2915	0.0056	0.7816	79.07869482	1648	28	2084	22
CC02_16 - 42	6.458	0.074	0.3218	0.0032	0.65359	78.68708972	1798	16	2285	19
CC02_16 - 43	4.399	0.06	0.2647	0.0033	0.67563	77.3237998	1514	17	1958	19
CC02_16 - 24	4.135	0.084	0.2532	0.0069	0.88025	75.48051948	1453	36	1925	26
CC02_16 - 110	6.052	0.082	0.3032	0.0044	0.72616	75.06596306	1707	22	2274	18
CC02_16 - 4	5.07	0.092	0.2781	0.0031	0.058437	75.04743833	1582	16	2108	34
CC02_16 - 124	3.91	0.15	0.2417	0.0063	0.46941	73.71760973	1394	33	1891	58
CC02_16 - 91	7.03	0.21	0.3157	0.0093	0.94689	72.24039248	1767	45	2446	17
CC02_16 - 113	3.668	0.095	0.2313	0.0041	0.66603	71.98067633	1341	22	1863	33
CC02_16 - 116	4.207	0.045	0.2458	0.002	0.72482	69.89141165	1416	10	2026	12
CC02_16 - 117	5.79	0.087	0.2824	0.0044	0.85215	69.24406048	1603	22	2315	13
CC02_16 - 46	3.503	0.047	0.2196	0.0021	0.43847	67.90450928	1280	11	1885	22
CC02_16 - 75	3.88	0.11	0.2296	0.0054	0.86932	67.37481032	1332	28	1977	21
CC02_16 - 62	3.512	0.089	0.2183	0.0054	0.85976	66.63174437	1272	28	1909	22
CC02_16 - 11	3.709	0.052	0.2186	0.0034	0.64318	64.85525648	1277	19	1969	23
CC02_16 - 21	5.335	0.074	0.2543	0.0027	0.82614	61.54170177	1461	14	2374	14
CC02_16 - 84	3.78	0.22	0.215	0.0087	0.88093	61.18164063	1253	46	2048	37
CC02_16 - 109	4.31	0.1	0.2275	0.0042	0.88197	60.54078827	1321	22	2182	17
CC02_16 - 5	4.144	0.06	0.2201	0.0022	0.56253	59.57249071	1282	11	2152	20
CC02_16 - 69	3.709	0.09	0.2066	0.0041	0.87197	57.75656325	1210	22	2095	20
CC02_16 - 47	3.6	0.1	0.2031	0.0057	0.94106	57.43243243	1190	31	2072	18
CC02_16 - 73	4.467	0.089	0.2245	0.0036	0.42243	57.28709394	1305	19	2278	35

CC02_16 - 99	3.367	0.094	0.1947	0.0061	0.91111	56.87344913	1146	33	2015	22
CC02_16 - 108	3.87	0.24	0.208	0.012	0.98052	56.70247548	1214	64	2141	25
CC02_16 - 63	3.095	0.058	0.1855	0.0034	0.93843	55.88385125	1097	18	1963	11
CC02_16 - 77	3.43	0.13	0.1946	0.005	0.96446	55.74488802	1145	27	2054	23
CC02_16 - 115	3.985	0.059	0.2086	0.0033	0.75788	55.72797809	1221	18	2191	17
CC02_16 - 78	3.986	0.068	0.2096	0.0053	0.25781	55.29995489	1226	28	2217	44
CC02_16 - 2	3.784	0.069	0.2016	0.0026	0.77675	55.14671635	1184	14	2147	21
CC02_16 - 13	3.57	0.047	0.1967	0.0035	0.83661	54.42144873	1157	19	2126	20
CC02_16 - 20	3.86	0.11	0.2023	0.0054	0.89621	54.07744875	1187	29	2195	19
CC02_16 - 14	3.318	0.055	0.1892	0.0025	0.68491	53.98743354	1117	13	2069	23
CC02_16 - 49	4.66	0.1	0.2166	0.0039	0.81421	53.20134794	1263	21	2374	19
CC02_16 - 114	5.81	0.3	0.2369	0.0052	0.83432	52.73287144	1370	27	2598	55
CC02_16 - 17	5.1	0.19	0.2234	0.0059	0.96229	52.37903226	1299	31	2480	26
CC02_16 - 51	2.82	0.093	0.1685	0.0042	0.94035	50.65656566	1003	23	1980	19
CC02_16 - 131	6.52	0.33	0.2428	0.0036	0.86181	50.57761733	1401	18	2770	58
CC02_16 - 106	4.15	0.12	0.1999	0.0019	0.6692	50.32119914	1175	10	2335	39
CC02_16 - 123	5.26	0.075	0.2231	0.0021	0.2589	50.31007752	1298	11	2580	27
CC02_16 - 132	4.68	0.16	0.2117	0.0055	0.8063	50.24370431	1237	29	2462	33
CC02_16 - 94	3.304	0.098	0.18	0.0064	0.91809	49.90627929	1065	35	2134	24
CC02_16 - 67	3.425	0.087	0.1823	0.0042	0.94632	49.86136784	1079	23	2164	15
CC02_16 - 80	3.88	0.16	0.1921	0.0027	0.62704	49.62735642	1132	15	2281	58
CC02_16 - 104	3.532	0.074	0.1853	0.0027	0.88795	49.36880072	1095	15	2218	14
CC02_16 - 56	2.841	0.069	0.1646	0.0042	0.91239	49.07730673	984	23	2005	17
CC02_16 - 34	4.065	0.066	0.1928	0.0032	0.77725	48.03382664	1136	17	2365	18
CC02_16 - 64	2.96	0.11	0.1636	0.0077	0.96413	46.50831354	979	42	2105	23
CC02_16 - 40	2.67	0.12	0.1553	0.0064	0.96713	46.08134921	929	36	2016	18
CC02_16 - 86	3.221	0.053	0.1693	0.003	0.81534	45.98540146	1008	16	2192	16
CC02_16 - 87	2.27	0.14	0.1417	0.0084	0.98691	45.03171247	852	47	1892	17
CC02_16 - 128	2.795	0.05	0.1486	0.0028	0.79548	41.40009272	893	15	2157	18
CC02_16 - 74	3.16	0.096	0.1543	0.003	0.82611	40.13015184	925	17	2305	29
CC02_16 - 10	2.39	0.16	0.1344	0.0081	0.98396	39.35860058	810	46	2058	18
CC02_16 - 38	2.303	0.087	0.1319	0.0042	0.92949	39.27165354	798	24	2032	24
CC02_16 - 45	2.84	0.13	0.1448	0.005	0.94361	38.78005343	871	28	2246	32
CC02_16 - 100	4.745	0.058	0.1781	0.0019	0.41895	38.31640058	1056	10	2756	20
CC02_16 - 130	2.489	0.074	0.1143	0.0041	0.93412	28.95720814	697	23	2407	23
CC02_16 - 111	2.075	0.043	0.1026	0.0011	0.10667	27.37505432	629.9	6.6	2301	37
CC02_16 - 70	1.478	0.063	0.0857	0.0034	0.92398	26.0591133	529	20	2030	28

CC02_16 - 1	1.035	0.035	0.062	0.0024	0.94563	19.67545639	388	15	1972	24
CC02_16 - 23	0.717	0.025	0.03815	0.00053	0.45384	11.27570093	241.3	3.3	2140	54
CC02_16 - 79	0.544	0.047	0.0313	0.0034	0.99594	9.379441023	198	21	2111	30

All U–Pb data for Wuraliwuntya Member

Analysis	207Pb/235U	Error	206Pb/238U	Error	rho	Concordance	206Pb/238U	Error	207Pb/206Pb	Error
CC04_01 - 58	5.22	0.11	0.3397	0.0038	0.18035	104.1436464	1885	18	1810	42
CC04_01 - 102	6.277	0.083	0.374	0.0035	0.42765	103.8539554	2048	16	1972	22
CC04_01 - 117	5.438	0.086	0.3427	0.0035	0.33702	102.2066738	1899	17	1858	28
CC04_01 - 44	4.75	0.11	0.3183	0.0039	0.2816	102.0630372	1781	19	1745	38
CC04_01 - 28	4.95	0.11	0.3272	0.0038	0.26471	101.7857143	1824	18	1792	40
CC04_01 - 42	5.231	0.078	0.3349	0.0029	0.26313	101.3609145	1862	14	1837	26
CC04_01 - 114	5.257	0.084	0.3358	0.0034	0.40241	101.3029316	1866	16	1842	26
CC04_01 - 96	5.59	0.13	0.3467	0.0037	0.28181	101.2671595	1918	18	1894	40
CC04_01 - 99	6.02	0.11	0.3601	0.0046	0.56811	101.2257406	1982	22	1958	28
CC04_01 - 63	7.8	0.12	0.4094	0.0037	0.20856	100.9124088	2212	17	2192	27
CC04_01 - 12	4.887	0.089	0.3223	0.0052	0.77213	100.7274762	1800	25	1787	26
CC04_01 - 98	10.02	0.26	0.4568	0.0074	0.69323	100.3309888	2425	33	2417	31
CC04_01 - 37	5.239	0.086	0.3336	0.0022	0.17145	100.3243243	1856	11	1850	32
CC04_01 - 83	4.733	0.079	0.3142	0.003	0.32935	100.2276608	1761	15	1757	29
CC04_01 - 30	6.54	0.1	0.3743	0.0035	0.55654	100.195599	2049	17	2045	22
CC04_01 - 52	4.606	0.073	0.3123	0.0024	0.24606	100.1715266	1752	12	1749	30
CC04_01 - 43	4.75	0.097	0.3176	0.0056	0.52741	100.0563063	1777	28	1776	36
CC04_01 - 46	5.42	0.12	0.3393	0.0036	0.16928	99.8938992	1883	17	1885	40
CC04_01 - 55	4.668	0.09	0.3133	0.0032	0.30079	99.71623156	1757	16	1762	36
CC04_01 - 109	5.441	0.096	0.3393	0.003	0.16565	99.62962963	1883	15	1890	35
CC04_01 - 7	9.7	0.18	0.4509	0.0051	0.45404	99.33747412	2399	23	2415	28
CC04_01 - 103	9.45	0.12	0.4446	0.004	0.30162	99.1635299	2371	18	2391	23
CC04_01 - 57	5.502	0.09	0.3405	0.0034	0.27246	98.53938445	1889	16	1917	34
CC04_01 - 115	10.58	0.3	0.469	0.014	0.61176	98.41017488	2476	60	2516	44
CC04_01 - 100	6.76	0.3	0.3751	0.0092	0.13321	97.94651385	2051	43	2094	86

CC04_01 - 64	5.04	0.11	0.3233	0.0037	0.27984	97.88503254	1805	18	1844	40
CC04_01 - 113	4.959	0.063	0.3201	0.0034	0.44351	97.86768726	1790	16	1829	21
CC04_01 - 9	4.746	0.057	0.3108	0.0027	0.097005	97.26715003	1744	13	1793	25
CC04_01 - 33	11.346	0.086	0.4758	0.0035	0.50531	97.17273431	2509	15	2582	14
CC04_01 - 5	10.56	0.11	0.4532	0.0033	0.36358	95.0295858	2409	15	2535	18
CC04_01 - 18	5.247	0.062	0.3238	0.0032	0.71075	94.70927187	1808	15	1909	17
CC04_01 - 69	5.06	0.13	0.3188	0.0044	0.45674	94.04949974	1786	22	1899	41
CC04_01 - 111	4.7	0.11	0.3047	0.0058	0.50635	93.10157523	1714	29	1841	35
CC04_01 - 110	11.71	0.14	0.4653	0.0039	0.65781	92.66089575	2462	17	2657	17
CC04_01 - 34	5.07	0.1	0.3121	0.0054	0.80275	91.62303665	1750	26	1910	19
CC04_01 - 94	4.78	0.11	0.2997	0.0049	0.72902	89.89361702	1690	24	1880	27
CC04_01 - 93	4.165	0.069	0.2759	0.0038	0.6192	88.0044843	1570	19	1784	27
CC04_01 - 45	3.998	0.084	0.2667	0.005	0.75048	86.64013644	1524	25	1759	26
CC04_01 - 56	4.271	0.066	0.2775	0.0031	0.22938	86.37110016	1578	16	1827	32
CC04_01 - 91	4.19	0.1	0.2717	0.005	0.64018	85.34435262	1549	26	1815	35
CC04_01 - 97	4.14	0.15	0.2562	0.0089	0.93767	77.43806009	1469	46	1897	21
CC04_01 - 17	3.476	0.062	0.2277	0.0039	0.9204	73.93736018	1322	20	1788	12
CC04_01 - 35	7.69	0.15	0.326	0.0061	0.70382	71.29411765	1818	30	2550	27
CC04_01 - 23	4.74	0.16	0.2615	0.0077	0.74449	70.93409199	1496	40	2109	40
CC04_01 - 74	3.067	0.058	0.2052	0.003	0.65517	68.63972681	1206	15	1757	30
CC04_01 - 85	3.57	0.11	0.2235	0.0061	0.86904	68.54881266	1299	32	1895	26
CC04_01 - 101	18.77	0.64	0.447	0.014	0.94981	68.39229221	2378	62	3477	16
CC04_01 - 41	6.48	0.18	0.2957	0.0074	0.92308	67.88766789	1668	37	2457	18
CC04_01 - 39	7.14	0.14	0.3028	0.0058	0.89152	66.58851114	1704	29	2559	17
CC04_01 - 1	3.342	0.099	0.2115	0.0058	0.80471	65.50079491	1236	31	1887	33
CC04_01 - 3	6.584	0.089	0.286	0.0038	0.87079	64.27438541	1621	19	2522	12
CC04_01 - 20	3.21	0.14	0.2035	0.0087	0.95759	63.67521368	1192	47	1872	21
CC04_01 - 104	3.339	0.066	0.2065	0.004	0.50583	62.88981289	1210	21	1924	34
CC04_01 - 15	2.802	0.056	0.1852	0.0025	0.19985	61.65540541	1095	13	1776	36
CC04_01 - 25	2.893	0.075	0.1859	0.0051	0.92763	60.06564551	1098	28	1828	18
CC04_01 - 48	3.459	0.079	0.2036	0.0045	0.67981	59.7	1194	24	2000	36
CC04_01 - 26	6.06	0.11	0.263	0.0035	0.6913	59.67486122	1505	18	2522	19
CC04_01 - 106	2.749	0.039	0.1808	0.0018	0.57491	59.53307393	1071	9.7	1799	22
CC04_01 - 59	2.946	0.096	0.1863	0.0043	0.91138	58.97161221	1101	23	1867	31
CC04_01 - 81	2.896	0.092	0.1852	0.0055	0.83094	58.75402793	1094	30	1862	28
CC04_01 - 24	3.794	0.095	0.2086	0.0046	0.87744	57.86729858	1221	25	2110	21
CC04_01 - 86	3.875	0.075	0.2018	0.003	0.87688	53.64418289	1185	16	2209	17

CC04_01 - 88	2.633	0.067	0.1613	0.0037	0.82701	50.84388186	964	20	1896	28
CC04_01 - 60	2.589	0.071	0.159	0.0039	0.84917	49.9737257	951	22	1903	31
CC04_01 - 82	2.668	0.037	0.1583	0.0022	0.60745	47.97365755	947	12	1974	25
CC04_01 - 73	2.955	0.059	0.1653	0.0034	0.90159	47.9338843	986	19	2057	14
CC04_01 - 50	2.364	0.062	0.1463	0.0045	0.88603	46.09334033	879	25	1907	25
CC04_01 - 118	2.34	0.074	0.1412	0.0041	0.88845	43.93391843	851	23	1937	28
CC04_01 - 6	3.141	0.09	0.1582	0.0044	0.93713	41.82139699	946	24	2262	19
CC04_01 - 10	1.998	0.037	0.1277	0.002	0.80138	41.79265659	774	11	1852	17
CC04_01 - 40	2.099	0.057	0.1308	0.0035	0.90991	41.72813488	792	20	1898	21
CC04_01 - 49	3.488	0.061	0.1641	0.0027	0.63081	41.42011834	980	15	2366	25
CC04_01 - 120	2.261	0.083	0.1326	0.0033	0.87678	39.84181908	806	20	2023	30
CC04_01 - 76	2.439	0.052	0.1367	0.0026	0.7982	39.74975938	826	15	2078	24
CC04_01 - 79	1.763	0.056	0.1158	0.0032	0.96133	39.68521641	706	18	1779	17
CC04_01 - 22	1.84	0.11	0.116	0.007	0.98639	38.47411444	706	40	1835	18
CC04_01 - 8	1.682	0.051	0.1108	0.0035	0.91948	38.01235261	677	20	1781	22
CC04_01 - 54	1.601	0.029	0.1071	0.0018	0.80485	37.25156161	656	10	1761	21
CC04_01 - 95	2.031	0.03	0.1196	0.0015	0.57909	36.67673716	728.4	8.9	1986	22
CC04_01 - 27	3.293	0.098	0.1493	0.0031	0.87058	36.55256724	897	17	2454	25
CC04_01 - 107	1.657	0.031	0.1065	0.0016	0.90291	35.22678186	652.4	9.5	1852	12
CC04_01 - 89	1.722	0.031	0.1063	0.0015	0.65004	34.48622881	651.1	9	1888	24
CC04_01 - 4	1.511	0.06	0.0997	0.0037	0.95471	34.35582822	616	21	1793	19
CC04_01 - 72	1.457	0.072	0.095	0.0043	0.96737	32.2830293	584	25	1809	20
CC04_01 - 29	1.429	0.045	0.0941	0.0028	0.87419	31.92074849	580	16	1817	26
CC04_01 - 66	1.798	0.043	0.1035	0.0018	0.63556	31.37351779	635	10	2024	29
CC04_01 - 92	1.329	0.049	0.0872	0.0032	0.94271	30.62146893	542	19	1770	23
CC04_01 - 108	2.285	0.068	0.1131	0.0031	0.8636	30.13100437	690	18	2290	25
CC04_01 - 21	1.04	0.03	0.077	0.0015	0.8893	30.02512563	478	9	1592	28
CC04_01 - 80	1.607	0.067	0.0965	0.0043	0.9121	29.93437658	593	25	1981	31
CC04_01 - 13	1.442	0.029	0.0907	0.0014	0.77845	29.66613672	559.8	8.5	1887	23
CC04_01 - 51	1.396	0.051	0.0875	0.003	0.95015	28.93048128	541	18	1870	21
CC04_01 - 121	1.508	0.089	0.0908	0.0052	0.97077	28.75514403	559	31	1944	23
CC04_01 - 90	1.457	0.042	0.0878	0.0023	0.75684	27.98141456	542	13	1937	33
CC04_01 - 71	1.165	0.025	0.0787	0.0017	0.84387	27.91881075	488.3	9.9	1749	21
CC04_01 - 16	1.184	0.04	0.0795	0.0028	0.90186	27.58813654	493	17	1787	24
CC04_01 - 87	3.186	0.06	0.1211	0.0022	0.82972	26.90763052	737	13	2739	17
CC04_01 - 32	1.269	0.021	0.0789	0.001	0.62003	25.92690678	489.5	6.2	1888	26
CC04_01 - 119	1.439	0.064	0.0833	0.0031	0.9386	25.76288144	515	19	1999	27

CC04_01 - 78	1.32	0.034	0.0786	0.0018	0.9118	24.89795918	488	11	1960	18
CC04_01 - 47	0.979	0.042	0.0648	0.0027	0.95127	22.77339346	404	16	1774	22
CC04_01 - 31	0.939	0.039	0.0635	0.0021	0.92375	22.69868496	397	13	1749	32
CC04_01 - 38	2.17	0.18	0.0933	0.0069	0.98294	22.41311988	574	40	2561	30
CC04_01 - 75	1.023	0.029	0.0656	0.0017	0.89387	22.22826087	409	10	1840	22
CC04_01 - 77	1.007	0.043	0.0654	0.0025	0.92024	22.13781877	408	15	1843	25
CC04_01 - 2	0.961	0.046	0.0622	0.0031	0.98131	21.28008753	389	19	1828	26
CC04_01 - 11	1.146	0.016	0.06694	0.00092	0.56481	20.70401587	417.6	5.6	2017	22
CC04_01 - 84	1.048	0.049	0.0627	0.0025	0.95152	20	392	15	1960	24
CC04_01 - 61	0.881	0.037	0.0567	0.0025	0.92754	19.5808053	355	15	1813	26
CC04_01 - 36	1.581	0.027	0.0733	0.0011	0.77619	19.05557877	456	6.6	2393	20
CC04_01 - 112	0.768	0.015	0.05239	0.00069	0.67786	19.03990746	329.2	4.2	1729	25
CC04_01 - 14	0.961	0.032	0.0582	0.0015	0.9003	18.58307849	364.6	8.9	1962	28
CC04_01 - 62	0.875	0.02	0.0535	0.0012	0.81784	17.36950904	336.1	7.4	1935	25
CC04_01 - 67	1.158	0.034	0.05974	0.00097	0.24211	17.03096539	374	5.9	2196	57
CC04_01 - 70	1.035	0.066	0.0561	0.0037	0.9678	16.37126866	351	22	2144	25
CC04_01 - 53	1.73	0.26	0.069	0.01	0.98847	16.18366579	430	62	2657	41
CC04_01 - 68	0.68	0.023	0.0419	0.0011	0.83691	13.943068	264.5	6.6	1897	25
CC04_01 - 116	0.961	0.023	0.0491	0.001	0.8773	13.82997763	309.1	6.4	2235	20
CC04_01 - 19	0.662	0.056	0.0406	0.0031	0.97932	13.54497354	256	19	1890	31
CC04_01 - 105	1.16	0.058	0.0525	0.0027	0.96343	13.47488771	330	16	2449	19
CC04_01 - 65	0.223	0.023	0.0146	0.0018	0.98055	5.005382131	93	12	1858	47

All U–Pb data for Wununmantyala Sandstone

Analysis	207Pb/235U	Error	206Pb/238U	Error	rho	Concordance	206Pb/238U	Error	207Pb/206Pb	Error
CC04_06 - 14	6.63	0.13	0.3814	0.0037	0.44419	103.016815	2083	17	2022	31
CC04_06 - 8	7.06	0.077	0.3913	0.0027	0.42418	101.7686424	2129	13	2092	19
CC04_06 - 6	5.465	0.068	0.3433	0.0023	0.27327	101.7112299	1902	11	1870	22
CC04_06 - 15	6.615	0.075	0.378	0.0034	0.77176	100.9770396	2067	16	2047	12
CC04_06 - 9	5.13	0.056	0.3296	0.003	0.18235	100.0544959	1836	15	1835	24
CC04_06 - 43	4.624	0.07	0.3122	0.0028	0.34425	100	1753	14	1753	27
CC04_06 - 22	4.514	0.091	0.3078	0.005	0.81396	99.94219653	1729	25	1730	21
CC04_06 - 2	13.43	0.18	0.5201	0.0045	0.33155	99.48396609	2699	19	2713	20
CC04_06 - 18	5.35	0.093	0.3346	0.004	0.11023	99.14712154	1860	19	1876	34

CC04_06 - 26	9.51	0.19	0.4364	0.0061	0.52885	95.89153657	2334	27	2434	30
CC04_06 - 38	11.38	0.21	0.4699	0.0095	0.74133	95.71924412	2482	42	2593	27
CC04_06 - 39	4.54	0.11	0.3017	0.0038	0.57628	95.66441441	1699	19	1776	34
CC04_06 - 30	4.85	0.1	0.3095	0.0056	0.78597	94.8172395	1738	27	1833	20
CC04_06 - 55	4.73	0.11	0.3087	0.0065	0.6778	94.59606987	1733	32	1832	42
CC04_06 - 16	4.45	0.11	0.2942	0.0054	0.60483	93.96843292	1667	28	1774	32
CC04_06 - 34	4.593	0.065	0.296	0.0033	0.53476	91.42545057	1674	17	1831	26
CC04_06 - 35	4.76	0.1	0.2995	0.0048	0.78855	89.69181722	1688	24	1882	27
CC04_06 - 5	4.712	0.073	0.2962	0.0033	0.41262	89.55543653	1672	16	1867	28
CC04_06 - 1	9.45	0.14	0.4002	0.0045	0.64808	85.25943396	2169	21	2544	18
CC04_06 - 45	3.728	0.062	0.2428	0.0042	0.88893	77.70382696	1401	22	1803	15
CC04_06 - 24	3.532	0.048	0.2324	0.0034	0.72828	75.71669477	1347	18	1779	18
CC04_06 - 19	7.08	0.19	0.325	0.0083	0.85334	74.65135357	1820	39	2438	24
CC04_06 - 33	3.53	0.091	0.2247	0.0055	0.89475	70.82429501	1306	29	1844	21
CC04_06 - 37	7.75	0.14	0.3184	0.0059	0.62039	68.44734819	1781	29	2602	30
CC04_06 - 51	3.545	0.099	0.2194	0.0039	0.49446	67.9787234	1278	21	1880	48
CC04_06 - 29	4.113	0.078	0.23	0.0022	0.48979	64.57225713	1336	11	2069	28
CC04_06 - 36	3.36	0.12	0.2057	0.0053	0.92528	63.5213495	1205	28	1897	22
CC04_06 - 27	2.874	0.073	0.1876	0.0031	0.58194	61.4872364	1108	17	1802	38
CC04_06 - 53	3.34	0.13	0.2037	0.0052	0.61036	61.2506407	1195	28	1951	59
CC04_06 - 44	2.89	0.17	0.1856	0.0097	0.9574	60.09879254	1095	53	1822	29
CC04_06 - 10	3.06	0.13	0.1912	0.0083	0.91347	59.67143614	1126	45	1887	28
CC04_06 - 52	3.145	0.093	0.1915	0.0052	0.68785	59.15049816	1128	28	1907	36
CC04_06 - 58	3.07	0.21	0.194	0.012	0.87209	58.88429752	1140	63	1936	61
CC04_06 - 28	2.512	0.099	0.1706	0.0058	0.95666	58.29982769	1015	32	1741	21
CC04_06 - 4	3.69	0.13	0.2042	0.0051	0.89647	57.52042287	1197	27	2081	29
CC04_06 - 41	4.96	0.1	0.233	0.0047	0.84889	56.62751678	1350	25	2384	20
CC04_06 - 17	5.84	0.19	0.2426	0.0077	0.96042	54.14407436	1398	40	2582	14
CC04_06 - 49	2.492	0.049	0.1637	0.0033	0.74147	53.88858246	977	18	1813	28
CC04_06 - 25	2.607	0.078	0.165	0.0044	0.83754	52.8747985	984	24	1861	32
CC04_06 - 48	2.5	0.12	0.1604	0.0062	0.52931	52.66630016	958	34	1819	82
CC04_06 - 54	3.28	0.22	0.1794	0.0085	0.69184	50.71633238	1062	46	2094	82
CC04_06 - 42	2.34	0.046	0.1525	0.0028	0.68115	50.4415011	914	16	1812	29
CC04_06 - 56	2.081	0.059	0.1407	0.0038	0.79529	48.23663254	848	22	1758	30
CC04_06 - 40	2.661	0.08	0.1577	0.0052	0.90715	47.91666667	943	29	1968	25
CC04_06 - 50	2.52	0.1	0.156	0.0045	0.564	47.77493606	934	25	1955	61
CC04_06 - 21	1.87	0.13	0.1225	0.0084	0.9834	41.69472503	743	48	1782	23

CC04_06 - 32	2.463	0.061	0.14	0.0046	0.85192	41.59684574	844	26	2029	30
CC04_06 - 23	3.008	0.051	0.1521	0.0022	0.66914	40.58744993	912	12	2247	23
CC04_06 - 13	2.154	0.037	0.125	0.0018	0.77292	37.68619662	759	11	2014	19
CC04_06 - 11	1.75	0.07	0.1105	0.0044	0.96535	36.25134264	675	26	1862	23
CC04_06 - 57	2.85	0.11	0.1364	0.0045	0.42096	34.94486853	824	26	2358	45
CC04_06 - 7	3.098	0.086	0.1396	0.0027	0.70712	34.45171849	842	15	2444	34
CC04_06 - 12	1.856	0.051	0.1116	0.0032	0.85471	34.32459677	681	18	1984	28
CC04_06 - 47	2.737	0.077	0.1295	0.0031	0.87557	32.91351805	784	18	2382	25
CC04_06 - 3	1.227	0.041	0.0793	0.0023	0.91449	27.12707182	491	14	1810	22
CC04_06 - 46	0.951	0.042	0.0647	0.0029	0.96677	23.37962963	404	18	1728	19
CC04_06 - 31	1.514	0.088	0.0767	0.0029	0.9047	21.14615726	476	18	2251	44
CC04_06 - 20	0.646	0.07	0.042	0.0041	0.97121	15.98311218	265	25	1658	46
CC05_12 - 61	4.551	0.099	0.3112	0.003	0.32779	101.9859813	1746	15	1712	39
CC05_12 - 57	4.702	0.084	0.3167	0.0031	0.28515	101.662844	1773	15	1744	33
CC05_12 - 111	4.721	0.068	0.3174	0.0025	0.59661	101.6590389	1777	12	1748	22
CC05_12 - 49	4.606	0.073	0.3131	0.0029	0.53951	101.2103746	1756	14	1735	26
CC05_12 - 16	4.626	0.072	0.313	0.0031	0.26989	101.2096774	1757	15	1736	29
CC05_12 - 87	4.715	0.08	0.3167	0.0029	0.39488	101.0832383	1773	14	1754	28
CC05_12 - 92	4.806	0.074	0.3199	0.0028	0.1444	100.8455468	1789	14	1774	30
CC05_12 - 5	4.759	0.06	0.3174	0.0026	0.15758	100.7369615	1777	13	1764	27
CC05_12 - 73	5.34	0.11	0.3384	0.0035	0.11362	100.6966774	1879	17	1866	35
CC05_12 - 75	4.66	0.073	0.3151	0.0035	0.41039	100.6845408	1765	17	1753	30
CC05_12 - 79	5.61	0.095	0.3438	0.003	0.2518	100.5277045	1905	15	1895	33
CC05_12 - 77	4.856	0.072	0.3208	0.0031	0.37131	100.4479283	1794	15	1786	25
CC05_12 - 100	4.914	0.071	0.322	0.0024	0.13261	100.4466778	1799	11	1791	26
CC05_12 - 3	10.68	0.11	0.4738	0.0038	0.40783	100.4419446	2500	17	2489	17
CC05_12 - 83	5.35	0.13	0.3388	0.0047	0.094252	100.3201708	1880	23	1874	46
CC05_12 - 112	7.1	0.11	0.3898	0.0039	0.24	100.1889466	2121	18	2117	28
CC05_12 - 113	4.587	0.067	0.3105	0.0025	0.28832	100.1147447	1745	12	1743	25
CC05_12 - 88	4.708	0.072	0.315	0.0033	0.42483	100.113443	1765	16	1763	28
CC05_12 - 48	4.832	0.085	0.3216	0.005	0.513	100.0556793	1797	24	1796	29
CC05_12 - 26	10.57	0.14	0.4702	0.005	0.50221	99.71898836	2484	22	2491	26
CC05_12 - 80	5.33	0.1	0.335	0.0051	0.69968	99.67880086	1862	25	1868	22
CC05_12 - 18	4.617	0.073	0.3113	0.0035	0.50053	99.6009122	1747	17	1754	27
CC05_12 - 90	4.731	0.077	0.3157	0.0031	0.37429	99.54954955	1768	15	1776	28
CC05_12 - 72	11.58	0.18	0.4849	0.0052	0.34323	99.41474834	2548	23	2563	25
CC05_12 - 22	6.141	0.098	0.3609	0.0039	0.46423	99.25037481	1986	18	2001	27

CC05_12 - 46	4.612	0.094	0.3102	0.003	0.24274	98.9766913	1741	15	1759	39
CC05_12 - 78	6.707	0.093	0.3737	0.0033	0.36321	98.93668439	2047	16	2069	25
CC05_12 - 15	5.026	0.099	0.3233	0.0038	0.43941	98.36601307	1806	19	1836	29
CC05_12 - 63	4.531	0.078	0.3022	0.0042	0.28994	97.20159909	1702	21	1751	34
CC05_12 - 65	4.596	0.061	0.3053	0.0027	0.51417	97.11538462	1717	13	1768	23
CC05_12 - 74	10.9	0.14	0.466	0.0052	0.52743	96.97208022	2466	23	2543	18
CC05_12 - 23	4.669	0.066	0.3086	0.0024	0.33339	96.76339286	1734	12	1792	24
CC05_12 - 104	4.629	0.069	0.304	0.0029	0.31555	95.80067189	1711	14	1786	28
CC05_12 - 39	4.938	0.068	0.3162	0.003	0.34781	95.67801189	1771	15	1851	27
CC05_12 - 69	11.08	0.12	0.4593	0.0035	0.53759	93.69230769	2436	16	2600	15
CC05_12 - 98	4.572	0.072	0.2973	0.0041	0.47698	92.65599117	1678	20	1811	26
CC05_12 - 95	4.25	0.1	0.2819	0.0061	0.74481	90.24252679	1600	31	1773	31
CC05_12 - 34	9.47	0.16	0.4147	0.0069	0.69772	89.57915832	2235	32	2495	25
CC05_12 - 7	4.151	0.088	0.2778	0.0028	0.21404	89.31599774	1580	14	1769	38
CC05_12 - 25	5.61	0.15	0.3215	0.0066	0.70957	89.02619871	1801	31	2023	32
CC05_12 - 71	3.938	0.092	0.2699	0.0041	0.50527	88.65860679	1540	21	1737	38
CC05_12 - 12	4.022	0.08	0.2701	0.0048	0.51709	88.10748999	1541	25	1749	33
CC05_12 - 60	4.188	0.089	0.2748	0.0039	0.50318	87.28388176	1565	20	1793	33
CC05_12 - 119	14.07	0.23	0.4847	0.0079	0.78328	87.1961657	2547	34	2921	17
CC05_12 - 115	4.02	0.1	0.2673	0.0045	0.47156	86.51558074	1527	23	1765	44
CC05_12 - 70	3.825	0.075	0.2613	0.0039	0.65342	86.12550374	1496	20	1737	29
CC05_12 - 10	9.44	0.24	0.4046	0.0086	0.76415	86.07943374	2189	40	2543	25
CC05_12 - 101	8.92	0.1	0.3928	0.0036	0.49482	85.81189711	2135	17	2488	18
CC05_12 - 105	3.95	0.19	0.2638	0.0086	0.89053	85.584563	1508	44	1762	40
CC05_12 - 59	4.17	0.082	0.2706	0.0047	0.79066	84.36303991	1543	24	1829	22
CC05_12 - 118	4.23	0.11	0.2735	0.006	0.30444	84.02590394	1557	30	1853	51
CC05_12 - 27	3.797	0.059	0.2543	0.0024	0.49354	83.04891923	1460	12	1758	25
CC05_12 - 86	4.031	0.075	0.2619	0.0051	0.78545	82.40791644	1499	26	1819	23
CC05_12 - 28	4.429	0.084	0.2735	0.0035	0.56605	81.57068063	1558	18	1910	29
CC05_12 - 97	4.15	0.19	0.264	0.0095	0.91892	81.12903226	1509	50	1860	34
CC05_12 - 53	3.643	0.084	0.2449	0.0051	0.7745	80.91690544	1412	26	1745	28
CC05_12 - 41	3.936	0.061	0.2539	0.0035	0.69741	79.80295567	1458	18	1827	24
CC05_12 - 14	4.212	0.077	0.2618	0.0047	0.5936	79.13365029	1498	24	1893	32
CC05_12 - 110	3.685	0.098	0.2408	0.0063	0.87417	77.74049217	1390	33	1788	24
CC05_12 - 9	4.65	0.13	0.2716	0.0071	0.95162	77.32267732	1548	36	2002	14
CC05_12 - 114	3.32	0.09	0.2277	0.0054	0.85811	76.68213457	1322	28	1724	21
CC05_12 - 17	3.54	0.056	0.2291	0.0024	0.50931	73.3995585	1330	13	1812	27

CC05_12 - 36	3.108	0.087	0.2104	0.0054	0.86823	71.63657542	1230	29	1717	25
CC05_12 - 47	3.629	0.096	0.2291	0.004	0.57389	71.29877071	1334	19	1871	39
CC05_12 - 66	5.67	0.1	0.2852	0.0041	0.67418	71.17077465	1617	21	2272	20
CC05_12 - 21	6.963	0.099	0.3099	0.0044	0.70644	70.78925956	1740	22	2458	20
CC05_12 - 32	3.862	0.07	0.2343	0.0046	0.75586	70.4569055	1357	24	1926	26
CC05_12 - 19	3.619	0.076	0.2267	0.0033	0.74904	69.9044586	1317	17	1884	24
CC05_12 - 6	3.8	0.062	0.2294	0.003	0.53033	68.08184143	1331	16	1955	23
CC05_12 - 43	6.55	0.71	0.295	0.03	0.98999	67.67842494	1650	150	2438	26
CC05_12 - 85	2.982	0.049	0.1974	0.0032	0.66723	65.11497476	1161	17	1783	25
CC05_12 - 40	2.879	0.087	0.1912	0.0051	0.78595	63.1019037	1127	28	1786	31
CC05_12 - 81	2.931	0.06	0.1912	0.0024	0.50178	62.47924737	1129	13	1807	34
CC05_12 - 29	3.646	0.095	0.2137	0.0047	0.8472	62.08955224	1248	25	2010	23
CC05_12 - 52	4.16	0.12	0.2271	0.0071	0.92457	62.06409048	1317	37	2122	19
CC05_12 - 20	3.292	0.099	0.2009	0.0054	0.88416	61.76008381	1179	29	1909	23
CC05_12 - 31	2.606	0.053	0.1789	0.0037	0.80933	61.29404968	1061	21	1731	24
CC05_12 - 50	3.046	0.043	0.1929	0.0028	0.92234	61.26077586	1137	15	1856	11
CC05_12 - 4	4.663	0.088	0.2357	0.0051	0.90928	60.19417476	1364	27	2266	14
CC05_12 - 33	3.24	0.12	0.197	0.01	0.86959	59.80392157	1159	56	1938	44
CC05_12 - 38	2.887	0.046	0.1824	0.0023	0.58488	57.14285714	1080	13	1890	26
CC05_12 - 106	2.66	0.062	0.1722	0.0034	0.82163	56.10958904	1024	19	1825	23
CC05_12 - 54	5.281	0.093	0.2364	0.0042	0.86014	55.34412955	1367	22	2470	14
CC05_12 - 67	2.559	0.065	0.1658	0.0041	0.94019	54.34543454	988	23	1818	16
CC05_12 - 82	2.924	0.048	0.1767	0.0039	0.78387	53.90946502	1048	21	1944	23
CC05_12 - 121	2.667	0.052	0.1678	0.0028	0.77	53.64806867	1000	15	1864	22
CC05_12 - 51	2.7	0.054	0.1697	0.0025	0.75915	53.55249205	1010	14	1886	25
CC05_12 - 30	2.649	0.061	0.1678	0.0032	0.8346	53.36179296	1000	18	1874	24
CC05_12 - 1	2.511	0.053	0.1611	0.0032	0.76783	52.08446129	962	18	1847	25
CC05_12 - 109	4.603	0.091	0.2102	0.0029	0.83407	50.93167702	1230	16	2415	19
CC05_12 - 89	2.616	0.039	0.1631	0.0022	0.48702	50.91479352	974	12	1913	27
CC05_12 - 42	2.693	0.085	0.163	0.0053	0.90942	50.31023785	973	29	1934	24
CC05_12 - 116	2.405	0.042	0.1536	0.0021	0.69363	49.97287032	921	12	1843	24
CC05_12 - 44	2.707	0.055	0.1625	0.0033	0.78693	49.64176049	970	18	1954	21
CC05_12 - 62	2.223	0.076	0.1456	0.0042	0.80413	48.61265261	876	24	1802	31
CC05_12 - 120	2.614	0.088	0.1555	0.0043	0.88886	47.18702484	931	24	1973	25
CC05_12 - 84	4.337	0.098	0.1959	0.0051	0.89552	47.05882353	1152	27	2448	18
CC05_12 - 2	2.885	0.062	0.162	0.0021	0.85879	46.85382381	968	12	2066	25
CC05_12 - 91	2.196	0.068	0.1368	0.0038	0.94203	43.68059228	826	22	1891	18

CC05_12 - 117	2.122	0.053	0.1307	0.002	0.84427	41.31455399	792	11	1917	28
CC05_12 - 37	2.068	0.098	0.1259	0.0051	0.94009	39.64711988	764	29	1927	28
CC05_12 - 94	1.748	0.039	0.1149	0.0019	0.68186	39.20581655	701	11	1788	28
CC05_12 - 96	3.53	0.054	0.1601	0.002	0.7125	38.99755501	957	11	2454	18
CC05_12 - 45	2.52	0.15	0.1379	0.0094	0.95972	38.76693134	830	53	2141	31
CC05_12 - 64	1.719	0.025	0.1137	0.0011	0.67449	38.39048673	694.1	6.1	1808	17
CC05_12 - 24	3.45	0.11	0.1569	0.0053	0.95463	38.34218048	939	29	2449	23
CC05_12 - 58	2.271	0.043	0.1285	0.0024	0.6508	37.5060183	779	14	2077	33
CC05_12 - 103	1.837	0.032	0.1148	0.0023	0.47466	36.95308382	701	14	1897	38
CC05_12 - 13	1.544	0.038	0.1033	0.0024	0.91358	35.96590909	633	14	1760	19
CC05_12 - 99	1.551	0.049	0.0998	0.0036	0.87111	33.57064622	613	21	1826	29
CC05_12 - 8	3.631	0.097	0.1367	0.0028	0.88418	29.98185118	826	16	2755	20
CC05_12 - 76	1.289	0.039	0.0849	0.0024	0.88839	29.59413754	525	14	1774	27
CC05_12 - 35	1.134	0.023	0.077	0.0015	0.89092	27.40825688	478	8.8	1744	20
CC05_12 - 11	1.353	0.049	0.0832	0.0019	0.9084	26.7950052	515	11	1922	25
CC05_12 - 55	1.2	0.024	0.0775	0.0012	0.82194	26.22343324	481.2	7	1835	21
CC05_12 - 107	1.401	0.058	0.0817	0.0034	0.9498	25.17412935	506	20	2010	24
CC05_12 - 93	1.086	0.02	0.07214	0.00091	0.79142	25.12590935	449	5.5	1787	20
CC05_12 - 108	1.932	0.032	0.0921	0.0012	0.73676	23.88725284	567.8	7.2	2377	18
CC05_12 - 102	1.128	0.025	0.0643	0.0015	0.84693	19.54744526	401.7	8.9	2055	19
CC05_12 - 56	0.752	0.033	0.0454	0.0017	0.96166	14.72708548	286	11	1942	23
CC05_12 - 68	0.359	0.034	0.0241	0.0023	0.99304	8.854166667	153	14	1728	22

REE data

Concordant samples REE data for Mallapunyah Formation normalised, to chondrite values from Taylor and McLennan (1985).

Analysis	Age	Error	Concordance	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Lu/La	Lu/Gd	Gd/La	Eu*	Ce*
CC01_04 - 9	1955	34	104.2966752	#VALUE!	1.928944619	0.346715328	1.575246132	15.28138528	2.126436782	57.41830065	83.10344828	122.0472441	166	207.6305221	260	327.8225806	400.2631579	#VALUE!	6.971003205	#VALUE!	0.058499201	25.27680022
CC01_04 - 4	1961	34	101.7848037	1.427792916	7.460815047	9.372262774	14.76793249	76.40692641	42.4137931	125.8169935	160.3448276	161.9422572	136	122.4899598	120.2777778	126.6129032	123.1578947	86.25753315	0.978865345	88.11991718	0.419473553	1.254345162
CC01_04 - 16	1918	50	101.7726799	1.852861035	9.717868339	4.430656934	6.047819972	22.64069264	10.22988506	53.7254902	84.82758621	160.3674541	266.8235294	411.2449799	600.2777778	807.2580645	1045.789474	564.4187307	19.46542451	28.99596309	0.267916627	2.993874683
CC01_04 - 5	1921	40	101.0411244	0.885558583	8.923719958	6.788321168	12.44725738	64.5021645	35.51724138	108.1699346	152.4137931	237.2703412	353.0588235	509.6385542	693.8888889	913.3064516	1137.105263	1284.054251	10.5122118	122.1488185	0.411383675	2.410431755
CC01_04 - 3	2200	36	96.54545455	7.820163488	55.59038662	48.90510949	71.02672293	286.5800866	179.3103448	316.9934641	329.3103448	385.8267717	458.8235294	588.3534137	772.2222222	954.8387097	1157.894737	148.0652852	3.652740098	40.53540115	0.594162367	1.650870476
CC01_04 - 18	2557	33	95.81540868	1.980926431	59.17450366	20	42.47538678	154.978355	82.18390805	268.9542484	321.2068966	412.8608924	545.2941176	699.1967871	876.3888889	1075.806452	1279.736842	646.029465	4.758195306	135.7719521	0.387721574	6.283649826
CC01_04 - 17	1924	47	93.60706861	0.629427793	7.732497388	3.722627737	7.172995781	40.69264069	25.74712644	61.76470588	79.82758621	121.2598425	177.5294118	238.9558233	310.8333333	420.9677419	532.1052632	845.3793575	8.615037594	98.12834225	0.502592099	4.002405986
CC01_04 - 8	1794	43	92.47491639	2.997275204	74.50365726	21.82481752	38.95921238	183.5497835	121.8390805	251.3071895	291.3793103	412.8608924	589.4117647	817.6706827	1155.555556	1495.967742	1960.526316	654.1028708	7.801314078	83.84521687	0.560363927	6.093776645
CC02_05 - 34	1788	18	104.753915	#VALUE!	5.611285266	#VALUE!	1.6	12	#VALUE!	40.9471242	91.20689655	175.0656168	314.2352941	506.4257028	733.8888889	995.5645161	1245.789474	#VALUE!	30.42390893	#VALUE!	#VALUE!	#VALUE!
CC02_05 - 32	1941	17	104.1731066	#VALUE!	3.052246604	#VALUE!	1.88466948	13.03030303	#VALUE!	68.23529412	151.8965517	355.1181102	740.5882353	1283.534137	1864.444444	2445.564516	2907.894737	#VALUE!	42.61569873	#VALUE!	#VALUE!	#VALUE!
CC02_0	2567	17	103.5449942	0.179836512	28.79832811	1.452554745	3.516174402	20.69264069	5.436781609	77.74509804	125.862069	209.7112861	330.7058824	487.5502008	660.5555556	854.0322581	1061.578947	5903.022329	13.65460941	432.3098633	0.110461327	47.99242169

5 - 35																						
CC02_05 - 79	2886	23	103.1185031	#VALUE!	23.7199582	#VALUE!	#VALUE!	#VALUE!	11.26436782	60.58823529	106.3793103	193.175853	320.1176471	480.3212851	679.4444444	902.8225806	1139.473684	#VALUE!	18.80684722	#VALUE!	#VALUE!	#VALUE!
CC02_05 - 42	1830	25	103.0601093	#VALUE!	10.22988506	0.598540146	1.814345992	12.81385281	#VALUE!	46.79738562	81.72413793	148.0314961	248.7058824	373.4939759	539.1666667	705.6451613	894.7368421	#VALUE!	19.11937665	#VALUE!	#VALUE!	51.80889065
CC02_05 - 16	1826	29	102.9025192	0.027792916	7.189132706	0.413138686	1.139240506	8.095238095	1.011494253	34.96732026	62.06896552	103.9370079	173.2941176	265.060241	375.2777778	493.1451613	651.3157895	23434.59752	18.62641417	1258.137896	0.046977899	47.98441346
CC02_05 - 6	1853	49	102.4824609	0.02479564	4.681295716	0.459854015	1.406469761	7.662337662	1.068965517	28.52941176	46.20689655	80.97112861	134.1176471	208.0321285	298.8888889	528.2258065	485.7894737	19591.72932	17.02767227	1150.581771	0.059072332	31.13554778
CC02_05 - 24	1757	26	101.8782015	#VALUE!	18.03552769	#VALUE!	1.392405063	9.783549784	3.931034483	43.26797386	76.89655172	134.9081365	234.3529412	365.8634538	529.1666667	702.4193548	955.2631579	#VALUE!	22.07783431	#VALUE!	0.148196855	#VALUE!
CC02_05 - 18	1769	43	101.8654607	#VALUE!	5.966562173	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	50.68965517	96.8503937	168	257.4297189	386.6666667	512.5	671.3157895	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_05 - 37	1859	30	101.5599785	#VALUE!	9.373040752	0.418248175	1.969057665	13.2034632	3.793103448	55.91503268	98.10344828	168.503937	280.7058824	412.8514056	557.7777778	711.6935484	861.3157895	#VALUE!	15.4040112	#VALUE!	0.109756539	105.5044628
CC02_05 - 23	2814	34	101.4570007	0.163487738	18.68338558	1.605839416	3.150492264	16.45021645	10.22988506	64.70588235	104.137931	194.2257218	335.2941176	508.4337349	750	966.5322581	1268.421053	7758.508772	19.60287081	395.7843137	0.252103914	22.82599758
CC02_05 - 19	2023	18	101.4335146	3.10626703	15.56948798	10.4379562	14.90857947	41.12554113	11.95402299	135.9477124	215.862069	381.8897638	624.7058824	875.502008	1163.888889	1427.419355	1773.684211	571.0018467	13.04681174	43.76562321	0.135017827	2.130490758
CC02_05 - 45	1873	22	101.2813668	0.024250681	15.74712644	0.291240876	0.661040788	3.116883117	2.965517241	10.26143791	17.05172414	29.47506562	53.41176471	90	151.1111111	229.8387097	318.6842105	13141.24778	31.05648676	423.1401924	0.443331751	122.7227037
CC02_05 - 14	1760	34	101.1931818	#VALUE!	5.705329154	1.058394161	3.445850914	17.4025974	7.75862069	75.16339869	127.4137931	211.8110236	352.9411765	516.4658635	694.4444444	874.5967742	1131.578947	#VALUE!	15.05491991	#VALUE!	0.167634359	17.55021004
CC02_0	1866	24	101.0182208	#VALUE!	15.98746082	#VALUE!	1.448663854	9.177489177	5.75862069	30.62091503	47.24137931	80.41994751	126.2352941	189.1566265	291.6666667	379.0322581	517.1052632	#VALUE!	16.88732236	#VALUE!	0.289389527	#VALUE!

5-12																						
CC02_05-97	2561	19	100.8590394	#VALUE!	8.338557994	0.394160584	1.518987342	8.701298701	2.114942529	31.20915033	57.24137931	96.8503937	170.1176471	245.7831325	348.8888889	464.1129032	598.1578947	#VALUE!	19.16610637	#VALUE!	0.105984402	81.5264859
CC02_05-40	1810	38	100.4972376	34.8773842	35.42319749	29.19708029	25.8790436	39.39393939	2.494252874	85.29411765	123.4482759	194.2257218	308.4705882	431.3253012	559.4444444	725.4032258	851.8421053	24.42391036	9.987114338	2.445542279	0.040007887	1.075368063
CC02_05-99	1875	27	100.48	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	48.36601307	86.37931034	144.3569554	245.7647059	358.6345382	485.2777778	618.9516129	803.4210526	#VALUE!	16.61127312	#VALUE!	#VALUE!	#VALUE!
CC02_05-44	1967	22	100.305033	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	71.60130719	158.1034483	298.4251969	510.1176471	770.2811245	1067.222222	1395.16129	1736.842105	#VALUE!	24.25712844	#VALUE!	#VALUE!	#VALUE!
CC02_05-21	2422	39	100.1651528	47.13896458	79.41483804	44.52554745	54.8532068	64.5021645	65.8620697	145.0980392	186.8965517	274.8031496	410.5882353	575.502008	783.3333333	1038.709677	1355.263158	28.75038029	9.340327169	3.078091352	0.628454246	2.19724318
CC02_05-36	1929	26	99.89631934	#VALUE!	11.45245559	#VALUE!	2.011251758	12.25108225	7.32183908	50.03267974	85.17241379	158.5301837	272.7058824	424.497992	626.1111111	885.0806452	1170.789474	#VALUE!	23.40049503	#VALUE!	0.235112294	#VALUE!
CC02_05-70	1740	30	99.54022989	2.561307902	12.28840125	#VALUE!	#VALUE!	#VALUE!	#VALUE!	37.51633987	67.06896552	127.5590551	228	359.8393574	513.8888889	704.4354839	920.5263158	359.3969765	24.53667706	14.64733695	#VALUE!	#VALUE!
CC02_05-104	1915	26	99.37336815	111.7166213	133.7513062	94.89051095	75.94936709	#VALUE!	#VALUE!	114.7058824	151.2068966	208.6614173	300	419.6787149	576.9444444	735.483871	968.4210526	8.668549422	8.442645074	1.026757532	#VALUE!	1.128175387
CC02_05-15	1880	35	99.30851064	0.16893733	5.872518286	0.810218978	2.461322082	14.1991342	2.839008046	57.51633987	91.72413793	156.4304462	244.7058824	352.2088353	505.5555556	623.3870968	802.6315789	4751.061121	13.9548445	340.4596247	0.079176231	22.01851384
CC02_05-10	1883	45	98.8316516 2	#VALUE!	28.59979101	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	75.59055118	113.0588235	157.4297189	218.6111111	292.7419355	376.5789474	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_05-61	1804	28	98.3924612	0.536784741	9.717868339	4.824817518	9.268635724	39.87012987	25.40229885	106.5359477	165.1724138	274.8031496	436.4705882	617.2690763	880.5555556	1125	1460.526316	2720.878974	13.70923474	198.4705219	0.347011535	3.869234397
CC02_0	1774	24	98.0270575	0.294277929	12.6123302	#VALUE!	3.994374121	19.30735931	#VALUE!	78.88888889	137.2413793	246.7191601	418.1176471	624.8995984	914.4444444	1189.516129	1492.105263	5070.394737	18.91401038	268.0761317	#VALUE!	#VALUE!

5 - 69																						
CC02_05 - 11	1898	39	97.52370917	0.392370572	50.87774295	2.890510949	8.382559775	38.35497835	26.20689655	114.0522876	171.7241379	281.1023622	444.1176471	664.6586345	926.3888889	1210.483871	1584.210526	4037.53655	13.89021264	290.6749274	0.343906131	51.04524096
CC02_05 - 62	1840	37	97.39130435	0.790190736	16.12330199	6.715328467	10.19690577	41.86147186	28.16091954	71.24183007	92.24137931	145.9317585	225.1764706	334.939759	477.7777778	627.016129	803.6842105	1017.076225	11.28107195	90.15776426	0.497968124	3.645758305
CC02_05 - 53	1929	18	97.30430275	2.779291553	17.76384535	19.34306569	27.84810127	130.3030303	73.56321839	211.7647059	273.9655172	417.3228346	598.8235294	839.3574297	1219.444444	1532.66129	1889.473684	679.8400413	8.92251462	76.19377163	0.430109073	1.322153745
CC02_05 - 20	1807	23	97.11676812	0.31880109	7.178683386	5.248175182	12.88326301	50.69264069	9.195402299	131.0457516	191.7241379	296.0629921	444.3529412	612.4497992	849.7222222	1020.967742	1260.263158	3953.133153	9.616970731	411.0580415	0.101193833	3.357793822
CC02_05 - 100	1913	22	97.07266074	0.179836512	3.584117032	1.437956204	2.53164557	15.4978355	4.965517241	55.45751634	99.65517241	174.015748	298.4705882	449.3975904	634.1666667	804.8387097	1034.736842	5753.763955	18.65818937	308.3774015	0.13996174	4.388274322
CC02_05 - 111	1753	23	96.97661152	10.32697548	41.69278997	33.79562044	49.36708861	190.4761905	127.5862069	262.745098	327.5862069	455.1181102	669.4117647	904.0160643	1302.777778	1685.887097	2078.947368	201.3123177	7.912411626	25.4425992	0.563019479	1.802094769
CC02_05 - 85	2555	15	96.75146771	3.351498638	35.31870428	24.37956204	35.16174402	139.3939394	95.40229885	193.4640523	231.0344828	303.1496063	401.1764706	522.0883534	673.3333333	862.9032258	1010.526316	301.5147625	5.223328592	57.72463999	0.573231235	2.089408567
CC02_05 - 8	1757	25	96.58508822	1.580381471	73.09299896	12.84671533	19.81715893	80.51948052	53.90804598	143.4640523	187.7586207	267.4540682	384.7058824	536.9477912	721.3888889	933.8709677	1172.894737	742.1592559	8.175530512	90.77811584	0.481357226	8.776734725
CC02_05 - 109	1859	26	96.2345347	1.08719346	18.90282132	11.89781022	23.06610408	108.2251082	62.64367816	210.7843137	277.4137931	400.2624672	580	779.9196787	1025.833333	1264.516129	1555.263158	1430.530273	7.378457772	193.8793061	0.392738733	3.080114079
CC02_05 - 66	1843	26	96.14758546	1.901907357	21.14942529	13.43065693	19.9718706	78.78787879	54.48275862	107.5163399	116.5517241	148.0314961	180.2352941	224.0963855	308.8888889	380.6451613	466.8421053	245.4599608	4.342057271	56.53079761	0.584879495	2.341654419
CC02_05 - 52	1789	28	95.69591951	1.267029973	15.84117032	10.72992701	15.75246132	71.86147186	49.08045977	114.7058824	155.5172414	227.5590551	331.7647059	478.313253	695.2777778	879.8387097	1103.684211	871.0797963	9.621862348	90.5313093	0.526141993	2.167415377
CC02_0	1814	34	95.64498346	2.179836512	14.5245559	15.10948905	19.69057665	68.83116883	45.63218391	123.2026144	167.2413793	267.9790026	421.1764706	598.7951807	848.6111111	1083.064516	1323.684211	607.2401316	10.74396203	56.51919935	0.475251627	1.252742297

5-28																						
CC02_05-81	1740	28	95.22988506	13.67847411	42.84221526	34.59854015	43.88185654	137.2294372	91.83908046	222.5490196	270.862069	385.8267717	560	744.5783133	997.5	1301.209677	1581.578947	115.6253932	7.106654301	16.27001797	0.5105031293	1.5705012376
CC02_05-94	1902	16	94.79495268	1.779291553	14.58725183	12.99270073	18.69198312	80.95238095	50.34482759	164.379085	245.6896552	430.7086614	723.5294118	1095.983936	1591.666667	2081.451613	2702.631579	1518.93689	16.44145652	92.38456996	0.4104022914	1.6152013703
CC02_05-30	2337	19	94.73684211	57.76566757	74.19017764	61.31386861	67.36990155	122.9437229	36.55172414	263.3986928	367.2413793	593.7007874	924.7058824	1258.232932	1577.777778	1899.193548	2184.210526	37.81156902	8.292412172	4.559779258	0.1892019318	1.3295020034
CC02_05-22	1876	26	94.40298507	1.277929155	13.13479624	12.26277372	20.95639944	99.13419913	50.34482759	201.6339869	283.7931034	432.5459318	662.3529412	912.0481928	1245	1533.467742	1950	1525.906183	9.670988655	157.7818192	0.3347074952	1.8304069844
CC02_05-53	1944	33	93.77572016	2.016348774	14.21107628	17.22627737	20.81575246	109.0909091	55.17241379	183.6601307	253.4482759	393.7007874	602.3529412	850.6024096	1200	1536.290323	1931.578947	957.9587482	10.51713804	91.08549726	0.3769023777	0.9968064691
CC02_05-41	1876	28	93.65671642	2.207084469	35.63218391	13.72262774	19.54992968	77.05627706	55.17241379	121.8954248	158.6206897	229.3963255	356.4705882	526.9076305	752.7777778	1020.564516	1307.894737	592.5893437	10.72964583	55.22916162	0.5546031232	3.6992044839
CC02_05-53	1955	22	93.60613811	3.188010899	20.16718913	21.53284672	32.77074543	143.2900433	83.44827586	223.5294118	293.1034483	432.0209974	604.7058824	838.9558233	1222.222222	1534.677419	1894.736842	594.3319838	8.476454294	70.115636	0.4549082824	1.4253073873
CC02_05-96	2032	26	92.86417323	13.623 9782	21.91222571	6.357664234	7.552742616	#VALUE!	#VALUE!	63.39869281	103.9655172	196.5879265	348.1176471	507.6305221	696.1111111	900.4032258	1157.368421	84.95084211	18.25539881	4.653464052	#VALUE!	4.0944054053
CC02_05-73	1893	24	92.60433175	2.634877384	18.38035528	19.5620438	31.35021097	121.6450216	76.09195402	193.4640523	249.6551724	337.5328084	478.8235294	651.0040161	834.7222222	1055.645161	1270.789474	482.2954879	6.568607752	73.4243094	0.4829056286	1.5057095225
CC02_05-80	1870	19	91.81818182	2.670299728	40.43887147	27.44525547	50.35161744	242.4242424	172.4137931	307.1895425	381.0344828	509.1863517	688.2352941	915.6626506	1211.111111	1620.967742	1997.368421	747.9940924	6.502071669	115.0393491	0.6273099814	2.70319825
CC02_05-39	1905	33	91.81102362	0.509536785	13.23928945	4.01459854	6.751054852	32.46753247	18.50574713	75.81699346	120.1724138	206.5616798	342.3529412	531.7269076	765.2777778	1045.564516	1352.631579	2654.62989	17.8407441	148.7959177	0.3417098553	5.5456045051
CC02_0	1857	29	91.76090468	1.119891008	10.79414838	9.927007299	13.22081575	63.63636364	38.62068966	126.1437908	192.5862069	320.9973753	547.0588235	826.5060241	1216.666667	1618.951613	2113.157895	1886.931745	16.75197709	112.6393461	0.4070004513	1.4481038015

5 - 13																						
CC02_05 - 92	1904	29	91.59663866	#VALUE!	30.82549634	21.82481752	34.73980309	130.3030303	94.25287356	219.6078431	267.2413793	356.6929134	470.5882353	633.7349398	839.1666667	1044.354839	1318.421053	#VALUE!	6.003524436	#VALUE!	0.538725034	2.248206445
CC02_05 - 60	1967	24	91.56075241	1.534059946	13.52142111	12.83941606	19.83122363	86.58008658	45.86206897	177.7777778	255.862069	406.5616798	604.7058824	862.6506024	1238.888889	1566.532258	1936.842105	1262.559596	10.89473684	115.8871127	0.346969583	1.626602015
CC02_05 - 2	2133	34	91.42053446	5.122615804	38.03552769	38.68613139	53.72714487	217.3160173	145.9770115	245.751634	274.137931	320.2099738	380	469.8795181	622.2222222	862.9032258	868.4210526	169.5268757	3.533734602	47.97385621	0.630478122	1.365439943
CC02_05 - 74	1925	40	91.32467532	0.332425068	71.93312435	3.824817518	8.509142053	39.26406926	28.62068966	100.9803922	135.862069	209.4488189	315.2941176	441.7670683	585.2777778	779.8387097	966.8421053	2908.451251	9.574552887	303.7688846	0.408154295	41.84015244
CC02_05 - 54	1988	25	91.24748491	1.068119891	26.75026123	8.248175182	13.5302391	64.06926407	44.13793103	102.6143791	121.0344828	155.9055118	208.4705882	266.6666667	375.8333333	470.1612903	598.9473684	560.7491944	5.836875629	96.0700947	0.529601228	5.320074894
CC02_05 - 67	1861	24	90.43524987	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	265.3543307	#VALUE!	567.0682731	#VALUE!	1060.887097	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_05 - 93	2487	16	90.06835545	2.983651226	27.89968652	22.33576642	31.08298172	109.5238095	87.35632184	169.6078431	207.0689655	277.9527559	392.9411765	545.7831325	761.9444444	1060.080645	1471.052632	493.0377313	8.67325829	56.84573373	0.625991484	1.738282179

Concordant samples REE data for Masterton Sandstone, normalised to chondrite values from Taylor and McLennan (1985).

Analysis	**Age**	**Error**	**Concordance**	**La**	**Ce**	**Pr**	**Nd**	**Sm**	**Eu**	**Gd**	**Tb**	**Dy**	**Ho**	**Er**	**Tm**	**Yb**	**Lu**	**Lu/La**	**Lu/Gd**	**Gd/La**	**Eu***	**Ce***
CC06_01N - 49	1725	44	103.4782609	0.054495913	7.356321839	0.474452555	1.631504923	12.33766234	4.379310345	59.80392157	109.6551724	197.1128609	344.7058824	528.9156627	705.5555556	941.1290323	1215.789474	22309.73684	20.32959448	1097.401961	0.121408766	53.31673311
CC06_01N - 68	1809	44	103.2614704	#VALUE!	4.231974922	0.278102219	0.801687764	5.800865801	0.793103448	15.03267974	23.62068966	37.27034121	56.82352941	82.20883534	113.0555556	155.2419355	182.8947368	#VALUE!	12.16647597	#VALUE!	0.076137156	43.86716047
CC06_01N - 48	1715	50	102.9737609	0.034604905	5.339602926	0.941605839	3.417721519	18.83116883	8.988505747	69.83660131	115.3448276	189.5013123	312.4705882	448.5943775	614.7222222	815.7258065	1003.947368	29011.70742	14.3756619	2018.112809	0.202745727	20.5829372

CC06_01N-67	1737	44	102.1301094	#VALUE!	12.12121212	0.401459854	1.392405063	9.264069264	2.413793103	43.36601307	78.44827586	152.7559055	262.8235294	412.8514056	565.2777778	792.3387097	1011.842105	#VALUE!	23.3326062	#VALUE!	0.091726746	104.7194616
CC06_01N-27	1748	46	101.7734554	0.034332425	22.92580982	2.02189781	4.500703235	20.08658009	15.40229885	60.45751634	94.65517241	158.7926509	263.7647059	402.4096386	576.1111111	788.3064516	1033.684211	30108.10359	17.09769559	1760.945119	0.382456307	25.23984359
CC06_01N-28	1835	45	101.6348774	5.422343324	13.27063741	5.620437956	6.849507736	11.2987013	1.735632184	37.22222222	59.48275862	104.1994751	171.0588235	246.9879518	347.2222222	452.4193548	564.2105263	104.0528961	15.15789474	6.864600782	0.071541597	2.877470154
CC06_01N-15	1731	47	101.6175621	4.822888283	19.43573668	4.525547445	4.88045007	15.10822511	5.91954023	50.94771242	86.72413793	155.9055118	262.2352941	398.7951807	573.8888889	764.1129032	988.1578947	204.8892358	19.3955302	10.56373472	0.179228104	4.636146766
CC06_01N-66	2513	33	101.3131715	0.069754768	14.00208986	3.03649635	7.412095564	22.12121212	15.86206897	53.92156863	65.51724138	97.37532808	153.5294118	233.7349398	315	439.9193548	551.5789474	7907.401316	10.2292823	773.0162377	0.417188803	11.25611051
CC06_01N-70	2035	47	100.9336609	0.029155313	31.72413793	1.094890511	3.080168776	18.7012987	11.6091954	54.70588235	80.17241379	129.9212598	205.0588235	322.8915663	445	619.7580645	807.8947368	27710.03443	14.76796831	1876.360638	0.316295906	81.51226474
CC06_01N-33	1794	63	100.5574136	#VALUE!	8.798328109	0.335766423	1.392405063	8.354978355	8.390804598	32.2875817	55.34482759	97.63779528	174	255.0200803	380.5555556	494.7580645	617.1052632	#VALUE!	19.11277434	#VALUE!	0.412907287	108.6653839
CC06_01N-26	1755	41	100.2279202	#VALUE!	10.56426332	3.029119708	7.271448664	31.94805195	15.97701149	94.80392157	142.9310345	246.7191601	389.7647059	594.37751	821.6666667	1047.580645	1339.473684	#VALUE!	14.12888478	#VALUE!	0.25209882	8.371535073
CC06_01N-63	2061	50	100.1940805	0.034604905	3.992685475	0.272262774	0.773558368	4.545454545	1.068965517	19.64052288	35	60.47244094	106.7058824	168.9558233	242.2222222	355.2419355	476.5789474	13772.0058	24.26508451	567.5647162	0.088395478	41.66598559
CC06_01N-41	2864	47	99.72067039	#VALUE!	22.26750261	0.2	0.745428973	4.285714286	1.298850575	17.22222222	30	58.97637795	96.70588235	165.060241	249.1666667	345.9677419	454.7368421	#VALUE!	26.4040747	#VALUE!	0.120778725	414.9710402
CC06_01N-32	1771	46	99.71767363	0.062942779	21.27481714	1.708029197	5.513361463	24.76190476	17.81609195	66.69934641	99.82758621	168.7664042	280.5882353	415.2610442	616.1111111	812.0967742	1048.684211	16660.91365	15.72255602	1059.682257	0.389587759	40.206079
CC06_01N-19	1859	44	99.56966111	0.125340599	8.652037618	5.051094891	10.73136428	42.33766234	27.5862069	104.9019608	145.6896552	231.496063	378.2352941	554.2168675	777.7777778	1006.854839	1296.315789	10342.34554	12.35740285	836.9352089	0.374711729	3.639116948
CC06_01N-6	1810	39	99.50276243	0.043051771	16.09195402	0.671532847	1.800281294	10.64935065	1.701149425	35.32679739	63.96551724	118.8976378	194.9411765	305.62249	427.5	586.6935484	731.0526316	16980.77948	20.69399679	820.5654836	0.074000139	64.24134597
CC06_01N-39	1750	53	99.37142857	#VALUE!	4.785788924	0.430656934	1.378340366	8.874458874	4.229885057	41.99346405	70.51724138	131.7585302	229.6470588	332.9317269	485.8333333	635.0806452	819.7368421	#VALUE!	19.52058161	#VALUE!	0.166308542	35.5669911
CC06_01N-30	1881	39	99.14938862	0.160762943	71.36886102	3.649635036	7.313642757	33.33333333	25.63218391	80.06535948	101.2068966	169.816273	290.2352941	447.7911647	706.9444444	1008.467742	1310.526316	8151.91793	16.36820623	498.0336767	0.452071947	39.18714595
CC06_01N-55	1794	45	97.26867336	0.166212534	8.140020899	3.912408759	7.805907173	26.27705628	11.03448276	76.14379085	140.5172414	250.9186352	435.7647059	689.5582329	965	1296.774194	1626.315789	9784.555651	21.35848204	458.111004	0.215473374	4.151073825

CC06_01N - 1	1859	41	97.2027972	0.19346049	8.641588297	10.94890511	23.06610408	54.54545455	45.86206897	66.99346405	63.79310345	81.3648294	132.1176471	210.8433735	343.0555556	543.5483871	798.4210526	4127.049666	11.9189474	346.2901593	0.7546089436	1.6627048004
CC06_01N - 65	1950	43	94	0.253405995	11.84952978	7.379562044	13.45991561	42.72727273	30.22988506	65.68627451	72.5862069	100.2624672	154	235.3413655	322.7777778	461.2903226	561.0526316	2214.046406	8.541398272	259.2135779	0.5576077261	2.9287049834
CC06_01N - 14	1788	51	93.90380313	0.086920981	8.140020899	2.795620438	6.736990155	25.88744589	20.68965517	51.96078431	63.27586207	109.7112861	178	278.313253	402.5	543.5483871	706.3157895	8125.952813	13.59324727	597.7933493	0.5315038228	7.0167034096
CC06_01N - 40	2043	42	93.00048948	0.340599455	20.47021944	15.69343066	31.92686357	112.987013	95.74712644	183.0065359	170.5172414	216.5354331	303.7647059	449.7991968	659.4444444	862.9032258	1127.894737	3311.498947	6.163139098	537.3071895	0.6469054143	2.6536045892
CC06_01N - 44	2570	35	92.06225681	0.297002725	12.1107628	14.08759124	32.20815752	80.95238095	64.25287356	109.4771242	103.6206897	119.9475066	168.2352941	247.7911647	369.4444444	501.6129032	695.2631579	2340.931917	6.35076198	368.606464	0.67482057	1.9654058581
CC01_06 - 41	1875	35	103.2	0.427792916	18.24451411	6.248175182	14.58509142	43.59307359	28.16091954	150.3267974	226.3793103	360.1049869	539.5294118	708.4337349	903.3333333	1070.967742	1282.631579	2998.253436	8.53228833	351.4008576	0.29043872	6.8160086013
CC01_06 - 7	1796	48	102.6169265	0.030517711	4.963427377	0.890510949	2.9395218	19.78354978	5.16091954	69.31372549	125.5172414	215.4855643	362.1176471	508.8353414	720.5555556	905.2419355	1158.157895	37950.35244	16.70892578	2271.262255	0.1158049099	18.39839041
CC01_06 - 45	1766	43	101.6987542	#VALUE!	25.29780564	0.050364964	0.300984529	2.9004329	2.413793103	16.2745098	31.20689655	69.29133858	138.2352941	246.184739	412.7777778	616.9354839	818.9473684	#VALUE!	50.3208624	#VALUE!	0.2517065352	#VALUE!
CC01_06 - 33	1767	52	101.2450481	0.033787466	6.165099269	0.773722628	3.108298172	20	8.563218391	93.79084967	151.5517241	263.2545932	432.9411765	628.5140562	836.9444444	1080.645161	1355.263158	40111.41766	14.44984412	2775.906599	0.1505008031	32.01047736
CC01_06 - 8	2019	34	100.4952947	0.059945504	11.40020899	1.905109489	4.838255977	24.63203463	6.942528736	77.87581699	134.137931	230.4461942	386.2352941	567.8714859	791.1111111	1032.258065	1316.315789	21958.54067	16.90275416	1299.11022	0.1354053599	15.19713685
CC01_06 - 59	1782	39	100.2805836	0.509536785	44.723093	9.124087591	14.34599156	36.36363636	27.70114943	66.0130719	101.3793103	171.3910761	280.8235294	447.7911647	671.1111111	948.3870968	1244.210526	2441.846327	18.84794164	129.5550662	0.5411061166	7.7069067198
CC01_06 - 50	1771	38	100.0564653	0.022615804	10.42842215	0.496350365	1.265822785	8.874458874	2.931034483	34.83660131	71.89655172	136.7454068	242.9411765	385.9437751	576.1111111	768.5483871	1023.684211	45264.10907	29.38530661	1540.365383	0.1341095512	53.58149429
CC01_06 - 22	2680	34	99.92537313	0.416893733	21.40020899	8.248175182	14.48663854	36.45021645	22.52873563	90.8496732	144.3103448	244.3569554	389.2941176	588.7550201	811.1111111	1030.645161	1305.789474	3132.187822	14.37307838	217.9204579	0.35394745	4.5569004067
CC01_06 - 58	1805	37	99.83379501	0.340599455	51.18077325	5.03649635	11.67369902	46.32034632	41.03448276	88.23529412	111.7241379	163.5170604	262.5882353	403.2128514	619.4444444	867.3387097	1222.105263	3588.101053	13.85052632	259.0588235	0.6099025866	23.55365381
CC01_06 - 36	1825	38	99.45205479	0.269754768	9.905956113	5.474452555	12.09563994	41.55844156	30.11494253	104.248366	174.4827586	288.7139108	476.4705882	724.0963855	1008.333333	1285.483871	1628.947368	6038.623073	15.62563933	386.4560639	0.4130080062	3.99800983
CC01_06 - 63	1943	39	99.43386516	0.039782016	21.93312435	0.510948905	1.167369902	3.852813853	2.149425287	17.87581699	33.27586207	61.15485564	113.0588235	193.1726908	325.5555556	519.3548387	744.7368421	18720.4398	41.66169537	449.3441669	0.1978042681	98.07403571

CC01_06-26	1948	35	99.17864476	0.498637602	15.25600836	10	18.98734177	50.995671	37.70114943	100	139.4827586	213.9107612	327.4117647	464.2570281	654.1666667	860.483871	1079.736842	2165.373886	10.79736842	200.5464481	0.4993 67289	2.8967 10448
CC01_06-32	1769	42	99.15206331	0.324250681	21.58829676	6.569343066	12.9395218	44.58874459	29.54022989	122.2222222	177.2413793	294.2257218	472.9411765	669.4779116	924.4444444	1218.145161	1555.263158	4796.483857	12.72488038	376.9374416	0.3541 76113	6.4728 07948
CC01_06-53	1768	40	98.92533937	1.446866485	27.79519331	33.57664234	67.36990155	196.969697	159.7701149	294.1176471	317.2413793	404.1994751	524.7058824	689.1566265	886.1111111	1096.774194	1342.105263	927.5944098	4.563157895	203.2790517	0.6506 79016	1.6609 673
CC01_06-49	1819	44	98.90049478	3.024523161	8.652037618	6.496350365	11.87060478	51.08225108	22.52873563	169.9346405	281.3793103	488.1889764	771.7647059	1085.542169	1434.166667	1719.758065	2055.263158	679.532954	12.0944332	56.18559736	0.2038 64379	2.4336 17759
CC01_06-54	1972	39	98.52941176	3.460490463	31.87042842	56.20437956	91.42053446	207.7922078	144.8275862	320.2614379	413.7931034	548.5564304	789.4117647	1104.417671	1419.444444	1790.322581	2123.684211	613.6945711	6.631095596	92.54799032	0.5485 3361	0.9223 40633
CC01_06-23	1782	39	98.26038159	228.8828338	261.2330199	222.6277372	216.5963432	192.2077922	103.2183908	217.6470588	248.2758621	323.8845144	462.3529412	643.373494	910	1211.290323	1507.631579	6.58691416	6.926955903	0.950910364	0.5036 8266	1.1416 17577
CC01_06-60	1873	41	97.54404698	2.373297003	28.84012539	45.03649635	82.41912799	215.1515152	171.0344828	344.7712418	418.7931034	518.8976378	658.8235294	823.2931727	1047.5	1264.919355	1557.894737	656.4263702	4.518633076	145.2710055	0.6109 21705	1.1719 14603
CC01_06-13	1934	37	95.96690796	0.697547684	15.36050157	12.91970803	27.56680731	77.92207792	69.1954023	149.3464052	192.4137931	267.7165354	398.8235294	575.9036145	818.6111111	1030.645161	1297.368421	1859.89926	8.686974548	214.1020731	0.6089 30911	2.5368 01403
CC01_06-56	1823	40	94.84366429	0.365122616	24.34691745	12.04379562	24.05063291	96.53679654	75.86206897	212.4183007	286.2068966	464.5669291	703.5294118	1036.144578	1450	1870.967742	2315.789474	6342.498036	10.90202429	581.77251	0.4910 87991	4.0368 60471
CC01_06-39	1889	35	94.70619375	1.61852861	38.24451411	36.13138686	67.79184248	174.4588745	150.5747126	253.5947712	289.6551724	361.9422572	475.2941176	610.0401606	813.8888889	1072.177419	1318.421053	814.5800106	5.198928378	156.6822913	0.7035 31972	1.9859 91208
CC01_06-18	1903	40	93.79926432	2.441416894	28.31765935	42.55474453	75.94936709	188.3116883	142.4137931	310.7843137	374.4827586	504.7244094	723.5294118	953.0120482	1255.555556	1554.83871	1886.842105	772.847157	6.071226963	127.2966999	0.5706 86972	1.1876 41971
CC01_06-42	1868	35	93.62955032	26.59400545	69.8014629	65.83941606	66.94796062	86.58008658	45.40229885	124.8366013	168.7931034	275.0656168	452.9411765	695.5823293	979.4444444	1282.258065	1623.684211	61.05451898	13.00647561	4.694163184	0.4295 05346	1.0780 27739
CC01_06-25	2354	35	93.62786746	2.261580381	28.42215256	40.2189781	80.73136428	293.5064935	396.5517241	679.7385621	660.3448276	671.9160105	685.8823529	806.0240964	922.2222222	1056.451613	1192.105263	527.1116043	1.753770243	300.5590991	0.8149 06219	1.4185 25654
CC01_06-5	1784	41	92.20852018	1.114441417	22.01671891	19.6350365	35.72433193	106.0606061	90.22988506	158.496732	183.2758621	235.1706037	352.9411765	470.6827309	672.2222222	846.7741935	1071.052632	961.0667868	6.757569181	142.220784	0.6821 19693	2.0401 08607
CC01_06-29	1809	38	91.43173024	0.727520436	18.85057471	14.67153285	26.16033755	83.11688312	76.20689655	150	191.8965517	279.5275591	422.1176471	587.5502008	828.8888889	1071.774194	1353.684211	1860.682042	9.024561404	206.1797753	0.6538 08472	2.2909 57109
CC01_06-57	1846	37	91.33261105	2.065395095	56.94879833	49.8540146	94.51476793	270.5627706	240.2298851	385.620915	422.4137931	459.3175853	528.2352941	659.8393574	916.6666667	1233.870968	1642.105263	795.0562422	4.258340767	186.7056409	0.7322 03163	2.1656 28528

CC01_06-6	1838	40	90.91437	1.272479564	23.34378265	24.16058394	42.19409283	106.0606061	87.24137931	158.8235294	196.8965517	267.191601	374.8235294	512.8514056	715.5555556	925	1144.473684	899.4043728	7.205945419	124.8142083	0.65871351	1.687361096
CC01_06-38	1843	38	90.34183397	0.945504087	42.1107628	20.4379562	42.19409283	125.5411255	113.7931034	190.5228758	221.0344828	301.8372703	429.4117647	626.9076305	913.6111111	1283.870968	1596.052632	1688.044138	8.377223075	201.5040214	0.72006367	4.253729156
CC03_08-25	1812	41	104.5253863	#VALUE!	5.92476489	0.226277372	1.181434599	8.528138528	1.632183908	40.26143791	81.20689655	155.1181102	271.6470588	437.751004	641.3888889	880.2419355	1136.315789	#VALUE!	28.22342789	#VALUE!	0.066907074	136.7094554
CC03_08-133	1728	35	104.3402778	#VALUE!	9.090909091	0.335766423	1.097046414	6.363636364	2.183908046	37.38562092	64.82758621	125.984252	231.8823529	363.4538153	532.5	720.9677419	914.2105263	#VALUE!	24.45353331	#VALUE!	0.099837491	88.46221058
CC03_08-136	1761	45	103.8046564	#VALUE!	11.70323929	0.861313869	2.714486639	16.92640693	7.390804598	59.31372549	92.75862069	157.2178478	258.5882353	385.1405622	522.5	686.6935484	870.7894737	#VALUE!	14.68107873	#VALUE!	0.19388226	42.82239103
CC03_08-129	1755	35	102.9059829	0.020980926	18.81922675	0.525547445	1.58931083	14.80519481	7.67816092	72.54901961	145.3448276	272.4409449	494.7058824	778.7148594	1135.833333	1565.322581	2002.631579	95450.10253	27.60384068	3457.85587	0.175793715	108.2896024
CC03_08-42	1753	22	102.7952082	0.036784741	41.06583072	0.540145985	1.856540084	13.85281385	11	43.26797386	69.65517241	120.4724409	214.5882353	337.751004	527.7777778	751.2096774	1035.789474	28158.12865	23.93894101	1176.247882	0.38514875	261.313976
CC03_08-89	1837	37	102.7218291	0.042234332	3.594566353	1.576642336	7.0604782	35.93073593	8.75862069	133.9869281	207.7586207	339.6325459	521.6470588	712.0481928	943.6111111	1186.693548	1481.315789	35073.73514	11.05567394	3172.464685	0.103092527	10.20972991
CC03_08-60	1853	23	102.590394	#VALUE!	6.342737722	0.330656934	1.251758087	7.575757576	0.517241379	32.35294118	53.62068966	100.5249344	172.4705882	260.2409639	384.1666667	513.3064516	642.6315789	#VALUE!	19.86315789	#VALUE!	0.025908251	72.61759967
CC03_08-96	1880	23	102.2340426	#VALUE!	10.57471264	0.540145985	1.983122363	11.99134199	2.609195402	46.69934641	77.75862069	125.1968504	196.7058824	283.1325301	406.6666667	579.4354839	725.2631579	#VALUE!	15.5304777	#VALUE!	0.088913437	71.87796642
CC03_08-17	1714	45	102.1586931	0.125340599	20.81504702	2.839416058	7.201125176	26.70995671	21.14942529	62.38562092	97.5862069	150.3937008	220.4705882	310.0401606	421.9444444	537.0967742	688.9473684	5496.601831	11.04336798	497.7287582	0.474758138	18.59172506
CC03_08-13	1789	33	102.0681945	#VALUE!	3.167189133	0.394160584	1.701828411	11.42857143	4.471264368	54.86928105	102.9310345	187.1391076	344.4705882	497.9919679	738.8888889	981.0483871	1302.368421	#VALUE!	23.735839	#VALUE!	0.134884139	34.69312196
CC03_08-128	1901	23	101.7885324	0.19346049	18.17136886	5.328467153	8.860759494	31.16883117	15.63218391	86.60130719	145	233.0708661	362.4705882	547.3895582	786.9444444	1063.709677	1365.526316	7058.424759	15.76796425	447.6433766	0.265469399	5.67092635
CC03_08-79	1862	25	101.396348	#VALUE!	11.61964472	0.620437956	2.151898734	14.54545455	5.804597701	55.94771242	84.48275862	127.8215223	196.5882353	275.1004016	382.2222222	497.5806452	649.2105263	#VALUE!	11.60387973	#VALUE!	0.16466854	64.95580396
CC03_08-31	1762	40	101.3620885	#VALUE!	4.73354232	0.191970803	0.658227848	6.753246753	2.712643678	29.37908497	52.93103448	98.16272966	175.0588235	265.060241	387.5	512.5	671.3157895	#VALUE!	22.85012587	#VALUE!	0.150150491	84.54582258
CC03_08-53	1750	30	101.2	#VALUE!	18.59979101	0.31459854	1.29395218	9.090909091	10.55172414	36.40522876	62.93103448	105.7742782	183.6470588	263.0522088	385.2777778	514.516129	658.6842105	#VALUE!	18.09312104	#VALUE!	0.463851423	243.1716184

CC03_08-105	1841	23	101.1950027	0.19346049	5.329153605	5.766423358	11.67369902	59.30735931	22.98850575	111.1111111	151.7241379	223.0971129	311.7647059	433.7349398	561.1111111	689.516129	818.4210526	4230.429948	7.365789474	574.3348983	0.2697888899	1.870913383
CC03_08-73	1818	20	101.1551155	0.098092643	19.17450366	1.802919708	3.966244726	12.72727273	6.206896552	45.58823529	79.65517241	147.7690289	255.6470588	375.9036145	559.7222222	764.516129	980.7894737	9998.603801	21.51409168	464.746732	0.2128072931	23.3964985
CC03_08-140	1851	21	101.1345219	#VALUE!	7.24137931	0.23649635	0.900140647	8.138528139	1.275862069	47.32026144	89.13793103	181.8897638	324.7058824	515.6626506	761.3888889	1048.387097	1362.631579	#VALUE!	28.79594359	#VALUE!	0.046011176	116.5420851
CC03_08-20	1773	16	101.0152284	1.416893733	35.21421108	42.33576642	73.13642757	151.5151515	117.2413793	198.0392157	262.0689655	351.7060367	483.5294118	687.9518072	988.8888889	1273.387097	1621.052632	1144.089069	8.185513288	139.7699849	0.6708004832	1.436934107
CC03_08-112	1769	35	100.9609949	0.419618529	18.40125392	11.02189781	18.70604782	35.4978355	24.02298851	63.07189542	102.7586207	172.7034121	277.5294118	431.3253012	625.2777778	813.7096774	1072.105263	2554.952153	16.99814562	150.3076988	0.48743135	2.833457469
CC03_08-84	1816	30	100.8810573	2.098092643	24.66039707	8.97810219	18.70604782	52.29437229	26.7816092	118.9542484	154.8275862	228.0839895	317.4117647	422.8915663	558.6111111	692.7419355	843.4210526	401.99419	7.09029786	56.69637552	0.3127080437	5.722858618
CC03_08-101	2790	13	100.8602151	2.42506812	47.23092999	63.28467153	115.0492264	212.987013	173.5632184	258.8235294	324.137931	409.9737533	538.8235294	763.4538153	1065.833333	1364.919355	1710.526316	705.3518628	6.608851675	106.7283543	0.7357032684	1.356791579
CC03_08-23	1846	30	100.8125677	0.08719346	11.54649948	1.700729927	4.486638537	18.0952381	10.48275862	57.2875817	94.65517241	153.2808399	239.5294118	351.0040161	495.5555556	636.6935484	801.0526316	9187.072368	13.98300658	657.0169526	0.2781020629	17.91021152
CC03_08-87	1735	32	100.8069164	1.547683924	49.73876698	42.48175182	76.09001406	145.8874459	111.6091954	188.8888889	243.4482759	333.8582677	457.5294118	661.0441767	943.8888889	1261.693548	1660.526316	1072.910489	8.791021672	122.0461659	0.6667068728	2.097093742
CC03_08-41	1749	25	100.6289308	0.430517711	38.87147335	13.50364964	27.14486639	67.53246753	60.34482759	139.869281	179.8275862	260.3674541	403.5294118	583.1325301	845.2777778	1143.548387	1534.210526	3563.640906	10.96888834	324.8862414	0.5819012428	5.786505735
CC03_08-9	1762	20	100.5107832	1.632152589	20.79414838	39.19708029	74.96483826	154.1125541	111.6091954	235.620915	319.6551724	471.6535433	697.6470588	1008.433735	1402.777778	1846.774194	2352.631579	1441.428697	9.98481641	144.3620631	0.57274627	1.014591711
CC03_08-35	1750	34	100.4571429	0.052588556	7.178683386	1.540145985	3.445850914	15.19480519	7.931034483	47.38562092	81.37931034	145.4068241	248.4705882	376.7068273	544.7222222	729.0322581	923.6842105	17564.35779	19.49292196	901.0633614	0.2534066938	10.42839581
CC03_08-52	1750	34	100.4571429	0.017438692	26.81295716	1.102189781	4.613220816	26.75324675	12.52873563	86.92810458	138.2758621	211.2860892	313.1764706	409.6385542	506.3888889	615.7258065	723.6842105	41498.76645	8.325089038	4984.783497	0.2204018485	101.8207278
CC03_08-106	1778	24	100.3937008	0.264305177	23.7199582	13.72262774	35.72433193	124.6753247	101.1494253	196.0784314	263.7931034	380.5774278	515.2941176	726.9076305	986.1111111	1254.032258	1515.789474	5734.997287	7.730526316	741.8637558	0.6306098306	4.499906304
CC03_08-77	1763	25	100.340329	0.310626703	12.80041797	4.744525547	8.860759494	25.54112554	17.81609195	61.4379085	100.862069	179.5275591	303.1764706	460.2409639	668.0555556	896.3709677	1188.947368	3827.576177	19.35201568	197.786951	0.4096064056	5.038595804
CC03_08-61	1824	29	100.3289474	#VALUE!	5.903866249	0.152554745	0.4092827	5.281385281	2.011494253	25.45751634	50	102.9133858	183.2941176	292.3694779	433.3333333	591.9354839	791.0526316	#VALUE!	31.07344098	#VALUE!	0.1308076131	103.8265589

CC03_08-141	1737	21	100.1727116	1.607629428	34.79623824	45.25547445	74.54289733	120.7792208	97.70114943	145.4248366	189.6551724	254.5931759	371.7647059	512.8514056	747.5	983.4677419	1245.263158	774.5958965	8.5629 33176	90.45917802	0.7340 32008	1.2664 74121
CC03_08-12	2470	15	100.1214575	0.25613079	26.12330199	8.248175182	19.54992968	55.41125541	38.96551724	105.2287582	140.3448276	197.9002625	283.5294118	373.4939759	496.1111111	599.1935484	733.6842105	2864.490482	6.9722 78522	410.8399388	0.4851 28411	7.5068 46193
CC03_08-7	1745	28	100.1146132	4.822888283	44.40961338	15.32846715	25.03516174	67.74891775	53.33333333	161.4379085	241.5517241	379.5275591	610.5882353	892.3694779	1216.666667	1572.580645	2071.052632	429.4216473	12.828 78756	33.47328385	0.4654 13603	4.7318 38774
CC03_08-80	1872	22	100.1068376	0.10626703	16.40543365	4.233576642	11.67369902	58.44155844	28.16091954	136.9281046	189.6551724	265.0918635	380	524.0963855	703.6111111	882.2580645	1086.842105	10227.46289	7.9373 19432	1288.528574	0.2882 83443	10.685 16797
CC03_08-139	2009	25	100.099552	#VALUE!	12.73772205	0.202189781	0.562587904	3.073593074	3.08045977	7.549019608	11.74137931	15.85301837	27.41176471	42.40963855	63.88888889	95.2016129	133.9473684	#VALUE!	17.743 67738	#VALUE!	0.5799 81566	175.29 26694
CC03_08-30	1744	35	100.0573394	0.020435967	5.92476489	0.554744526	2.123769339	13.59307359	5.574712644	61.24183007	108.1034483	187.1391076	320.1176471	467.8714859	665.2777778	847.1774194	1086.842105	53182.80702	17.746 72808	2996.766885	0.1489 86967	40.887 67514
CC03_08-8	1754	28	100.0570125	0.313351499	30.303 0303	10.51094891	17.15893108	42.42424242	32.98850575	77.77777778	118.1034483	182.152231	276.2352941	418.0722892	611.1111111	814.516129	1061.315789	3386.981693	13.645 48872	248.2125604	0.5488 84381	4.7064 39065
CC03_08-68	1852	28	100.0539957	0.414168937	27.6907001	17.88321168	35.8649789	113.4199134	97.70114943	200.3267974	256.8965517	370.0787402	508.2352941	657.0281124	894.4444444	1104.83871	1400	3380.263158	6.9885 8075	483.6837805	0.6228 02701	3.1053 70918
CC03_08-29	1840	28	99.89130435	0.337874659	14.25287356	8.540145985	15.75246132	40.60606061	29.65517241	72.22222222	96.20689655	131.7585302	199.2941176	283.1325301	402.7777778	533.8709677	647.8947368	1917.559423	8.9708 50202	213.7544803	0.5256 69126	3.0783 66082
CC03_08-76	1750	27	99.77142857	317.4386921	330.1985371	298.540146	281.2939522	227.7056277	71.37931034	224.5098039	222.4137931	292.3884514	415.2941176	565.8634538	742.5	978.2258065	1236.842105	3.896318048	5.5090 78373	0.70725406	0.3156 87194	1.0421 49581
CC03_08-116	2493	12	99.75932611	0.188010899	11.40020899	3.299270073	6.371308017	14.37229437	12.64367816	29.73856209	38.62068966	66.40419948	109.2941176	183.1325301	290.5555556	432.2580645	613.4210526	3262.688787	20.627 12551	158.1746708	0.5732 68314	6.6727 62673
CC03_08-153	1797	21	99.66611018	0.174386921	7.878787879	7.080291971	13.64275668	39.82683983	31.26436782	55.22875817	79.65517241	131.2335958	207.0588235	304.0160643	450.5555556	645.1612903	859.4736842	4928.544408	15.562 06789	316.7024101	0.6578 12238	2.1441 69961
CC03_08-148	1720	29	99.65116279	0.14986376	22.99895507	5.087591241	10.88607595	37.01298701	28.04597701	77.45098039	108.9655172	172.7034121	260.3529412	383.935743	513.3333333	670.1612903	847.1052632	5652.502392	10.937 30846	516.8092692	0.4900 40275	9.6728 63136
CC03_08-118	1909	22	99.47616553	1.471389646	17.76384535	45.25547445	71.72995781	123.8095238	83.90804598	202.6143791	279.3103448	396.3254593	578.8235294	833.7349398	1161.111111	1502.419355	1828.947368	1243.006823	9.0267 40238	137.7027354	0.5141 0479	0.6221 50299
CC03_08-109	1842	22	99.18566775	0.40599455	13.14524556	9.270072993	18.95921238	51.81818182	46.09195402	83.07189542	106.5517241	153.0183727	219.2941176	324.497992	493.3333333	701.2096774	961.8421053	2369.101024	11.578 42975	204.6133263	0.6834 00217	2.9001 64867
CC03_08-149	1861	26	99.14024718	0.128065395	8.641588297	3.364963504	7.130801688	21.81818182	12.64367816	48.43137255	77.4137931	124.4094488	195.5294118	295.1807229	408.3333333	558.0645161	702.3684211	5484.451288	14.502 34392	378.1768878	0.3599 64651	5.4421 58847

CC03_08-146	1853	23	99.13653535	0.509536785	11.52560084	16.35036496	35.58368495	117.7489177	77.01149425	194.4444444	241.3793103	323.0971129	429.4117647	529.7188755	677.2222222	800	977.6315789	1918.667323	5.027819549	381.6102198	0.4933557666	1.534120922
CC03_08-98	1753	27	99.08727895	0.359673025	24.38871473	9.781021898	19.2683572	48.0514805	35.8626897	94.7724183	128.2758621	192.9133858	295.7647059	428.1124498	625.2777778	826.2096774	1063.157895	2955.901116	11.2184882	263.4927708	0.5021888321	4.912147713
CC03_08-43	1737	23	98.90616005	1.166212534	24.420627	33.06569343	59.91561181	117.2727273	89.31034483	158.496732	206.2068966	279.7900262	399.5294118	546.184739	741.1111111	956.0483871	1200	1028.971963	7.571134021	135.9072445	0.6477017445	1.338232286
CC03_08-150	1863	24	98.65807837	0.604904632	17.43991641	16.13138686	29.67651195	67.96536797	50.57471264	101.6339869	136.0344828	191.0761155	278.5882353	393.9759036	530	691.1290323	857.1052632	1416.926268	8.433254358	168.016546	0.5964002182	1.988904088
CC03_08-137	1825	28	98.63013699	0.166212534	11.15987461	6.715328467	14.76793249	48.48484848	27.93103448	97.05882353	152.4137931	233.5958005	364.7058824	500.4016064	700	891.1290323	1068.421053	6428.041415	11.00797448	583.9440694	0.3838016542	3.654639071
CC03_08-36	1770	36	98.36158192	0.185286104	8.54754441	1.408759124	3.60062588	17.96536797	7.816091954	62.74509804	106.5517241	193.175853	322.3529412	486.746988	694.4444444	912.0967742	1147.368421	6192.414861	18.28618421	338.638985	0.1936082241	15.50737349
CC03_08-154	2444	26	97.66775777	0.376021798	15.45454545	9.781021898	18.42475387	39.39393939	32.75862069	62.09150327	75	112.5984252	174.5882353	269.4779116	433.3333333	651.6129032	961.5789474	2557.242563	15.48648199	165.1274036	0.6455082654	2.976387478
CC03_08-50	1774	21	97.40698985	2.234332425	36.46812957	52.55474453	102.6722925	181.8181818	158.6206897	287.5816993	367.2413793	496.0629921	701.1764706	957.0281124	1294.444444	1673.387097	2089.473684	935.1668806	7.265669856	128.7103459	0.6758044609	1.355635365
CC03_08-86	1773	23	96.78510998	0.588555858	23.60501567	15.18248175	33.33333333	91.34199134	79.31034483	180.7189542	268.9655172	411.023622	605.8823529	887.1485944	1258.333333	1641.129032	2086.842105	3545.699318	11.54744456	307.0548899	0.5830033663	3.413481102
CC03_08-138	2510	16	96.57370518	0.247956403	17.28317659	7.664233577	14.9085797	40.86580087	30.22988506	71.89542484	97.4137931	151.9685039	219.7647059	317.6706827	449.1666667	610.8870968	782.6315789	3156.327357	10.88569378	289.9518782	0.5361075177	4.386542769
CC03_08-132	2425	22	96	1.662125341	29.57157785	46.71532847	81.57524613	156.7099567	124.137931	209.1503268	255.1724138	330.7086614	436.4705882	576.3052209	836.1111111	1093.145161	1394.736842	839.1285591	6.668585526	125.8330655	0.6786008401	1.105386298
CC03_08-64	2457	25	95.97069597	6.485013624	77.11598746	170.8029197	281.2939522	444.5887446	357.4712644	456.8627451	455.1724138	434.9081365	407.0588235	412.0481928	455.5555556	522.1774194	549.2105263	84.6891862	1.202134628	70.44900313	0.7931015	0.743556952
CC03_08-57	1757	22	95.95902106	4.495912807	64.99477534	137.2262774	226.4416315	359.3073593	280.4597701	392.1568627	413.7931034	482.9396325	554.1176471	681.5261044	886.1111111	1110.887097	1355.263158	301.4433812	3.455921053	87.22519311	0.7464035457	0.781556102
CC03_08-130	1766	25	95.18686297	0.542234332	39.32079415	24.37956204	58.50914205	197.4025974	170	285.620915	341.0344828	395.5380577	487.5294118	613.6546185	821.9444444	1089.516129	1302.631579	2402.340651	4.560700951	526.7481197	0.7038099482	3.870741878
CC03_08-72	1785	19	95.07002801	20.16348774	40.33437827	34.67153285	50.91420534	125.1082251	100	187.9084967	232.7586207	293.4383202	390.5882353	519.2771084	680.5555556	872.5806452	1097.368421	54.42354196	5.839908467	9.319245716	0.6389043501	1.708316171
CC03_08-121	1906	19	94.12381952	0.719346049	21.63009404	27.59124088	63.15049226	212.1212121	174.7126437	382.3529412	475.862069	585.3018373	721.1764706	887.5502008	1172.222222	1411.290323	1668.421053	2319.358054	4.363562753	531.5285205	0.5877088864	1.794290019

CC03_08-83	1824	30	93.53070175	1.351498638	18.11912226	41.82481752	77.77777778	187.012987	147.7011494	285.2941176	383.7931034	514.1732283	690.5882353	940.9638554	1269.444444	1617.33871	2000	1479.83871	7.010309278	211.0946395	0.6254045385	0.8056009495
CC03_08-127	1938	33	93.03405573	0.457765668	10.65830721	10.4379562	21.65963432	87.01298701	95.40229885	136.6013072	151.7241379	162.7296588	185.8823529	228.9156627	300	396.3709677	489.4736842	1069.266917	3.583228406	298.408808	0.8532075496	2.11889001
CC03_08-117	1791	25	92.96482412	1.019073569	36.2800418	31.60583942	67.08860759	165.3679654	131.7241379	252.2875817	312.4137931	418.3727034	572.9411765	745.3815261	971.9444444	1165.725806	1502.631579	1474.507458	5.956026725	247.5656216	0.6307078827	2.4365 86865
CC03_08-124	1833	23	92.85324604	5.83106267	39.0804597 7	92.7007299 3	152.4613221	285.7142857	218.3908046	413.0718954	513.7931034	701.0498688	956.4705882	1258.634538	1630.555556	2010.887097	2384.210526	408.8809641	5.771902065	70.83989982	0.6250 57594	0.6933 50828
CC03_08-27	1812	31	92.66004415	1.961852861	15.67398119	11.82481752	20.81575246	61.9047619	67.81609195	160.130719	193.1034483	254.5931759	358.8235294	467.4698795	661.1111111	830.6451613	1047.368421	533.8669591	6.540708915	81.62218591	0.6108 58154	2.3333 64258
CC03_08-97	1873	22	92.1516284	1.10626703	21.57784744	31.67883212	64.41631505	159.7402597	112.2988506	241.503268	303.9655172	386.351706	501.1764706	646.184739	847.5	1071.774194	1339.473684	1210.80503	5.546399829	218.3046782	0.5597 54079	1.3850 50699
CC03_08-100	1788	25	91.72259508	5.177111717	42.94670846	57.37226277	99.29676512	215.1515152	174.7126437	260.7843137	303.4482759	365.8792651	449.4117647	549.3975904	733.3333333	954.0322581	1115.789474	215.5235457	4.278591215	50.37254902	0.7341 85716	1.2955 70429
CC03_08-88	1809	23	90.9342178	0.722070845	59.77011494	30.3649635	71.30801688	242.4242424	209.1954023	346.4052288	420.6896552	493.4383202	645.8823529	799.1967871	1058.333333	1346.774194	1642.105263	2274.160874	4.74041708	479.7385621	0.7105 46644	4.6225 0003
CC03_08-65	1805	26	90.47091413	1.708446866	21.63009404	48.10218978	88.60759494	193.5064935	180.4597701	298.6928105	398.2758621	485.5643045	634.1176471	819.2771084	1088.888889	1310.483871	1578.947368	924.2004533	5.286191408	174.8329529	0.7332 79258	0.8283 22887
CC03_08-111	1795	27	90.02785515	2.509536785	71.47335423	71.16788321	125.7383966	251.5151515	193.1034483	298.6928105	320.5172414	398.1627297	502.3529412	636.1445783	865.2777778	1083.064516	1326.315789	528.5102006	4.440400783	119.0230852	0.7019 28949	1.7743 69178
CC03_09-180	1709	28	105.5588063	0.117166213	14.169279	3.138686131	8.157524613	54.54545455	17.5862069	80.06535948	213.7931034	272.7034121	391.6470588	634.5381526	996.6666667	1666.532258	1863.157895	15901.83599	23.27046187	683.3485332	0.2612 8966	11.733 03504
CC03_09-168	1846	21	105.0379198	2.752043597	18.55799373	5.773722628	12.29254571	45.54112554	26.55172414	149.0196078	211.0344828	338.8451444	514.1176471	715.6626506	938.8888889	1150	1421.052632	516.3626889	9.53601108	54.14870899	0.2729 40214	6.8432 28205
CC03_09-170	1839	17	104.1326808	#VALUE!	6.635318704	0.700729927	2.123769339	12.85714286	4.275862069	53.7254902	88.44827586	160.6299213	272.1176471	405.2208835	583.0555556	738.3064516	961.5789474	#VALUE!	17.89800231	#VALUE!	0.1284 37758	28.699 0686
CC03_09-43	1770	28	103.559322	#VALUE!	20.63740857	0.554744526	1.99718706	11.64502165	6.597701149	47.02614379	78.27586207	137.5328084	240.8235294	367.8714859	549.4444444	726.6129032	939.7368421	#VALUE!	19.98328518	#VALUE!	0.2249 04384	133.93 30798
CC03_09-181	1735	18	103.2276657	4.659400545	31.24346917	6.204379562	9.282700422	47.18614719	8.505747126	47.74509804	175.5172414	220.4724409	323.2941176	563.4538153	972.2222222	2015.725806	2094.736842	449.5721761	43.87333838	10.24704736	0.1791 98052	7.5341 95205
CC03_09-202	1852	21	102.2678186	0.335149864	12.13166144	4.97810219	11.20956399	39.30735931	42.52873563	86.92810458	123.9655172	188.4514436	295.4117647	442.9718876	627.2222222	910.8870968	1226.315789	3659.007274	14.10724179	259.3708486	0.6738 00124	5.4875 86609

CC03_09-176	1842	24	102.062975	0.722070845	19.64472309	15.10948905	23.62869198	35.06493506	12.4137931	55.55555556	107.5862069	184.7769029	289.5294118	448.5943775	659.1666667	887.9032258	1144.736842	1585.352532	20.60526316	76.93920335	0.273973204	2.033227785
CC03_09-187	1776	28	101.8018018	0.030517711	9.20585162	0.941605839	2.489451477	10.6493506	3.850574713	38.49673203	73.10344828	140.1574803	236.9411765	371.4859438	554.7222222	736.2903226	985	32276.33929	25.58658744	1261.455415	0.156699151	25.84814314
CC03_09-129	1747	43	101.7744705	0.013623978	4.81713686886	0.315328467	0.773558368	6.406926407	2.793103448	31.63398693	58.27586207	105.7742782	182.7058824	280.3212851	414.4444444	548.7903226	718.9473684	52770.73684	22.72705524	2321.934641	0.146847339	37.47621459
CC03_09-182	1761	39	101.6467916	0.198910082	28.96551724	3.810218978	15.20393812	528.1385281	200.6896552	143.4640523	536.3793103	427.8215223	494.2352941	767.8714859	1208.611111	2895.16129	2410.526316	12118.6734	16.80230188	721.2507834	0.597644086	30.33454671
CC03_09-59	1921	19	101.5096304	0.10626703	16.91745037	5.693430657	13.78340366	35.4978355	15.17241379	89.21568627	141.0344828	240.1574803	388.1176471	584.3373494	821.6666667	1093.548387	1383.421053	13018.34683	15.50647773	839.5424837	0.243316259	7.1935508
CC03_09-254	1729	19	101.5037594	0.040871935	3.605015674	1.656934307	4.360056259	7.965367965	5.517241379	6.699346405	6.896551724	10.31496063	18.23529412	29.35742972	62.22222222	102.4193548	190.2631579	4655.105263	28.40025674	163.9106754	0.752451257	5.725173736
CC03_09-19	1873	32	101.3881474	0.054495913	9.143155695	0.795620438	2.081575246	15.06493506	5.057471264	60.13071895	112.0689655	205.511811	340	536.9477912	743.3333333	994.3548387	1271.052632	23323.81579	21.13815789	1103.398693	0.134514988	30.06604951
CC03_09-222	1753	28	101.3120365	0.024523161	13.49007315	1.751824818	4.261603376	9.523809524	2.91954023	39.41176471	73.96551724	147.7690289	266.5882353	426.9076305	631.6666667	879.4354839	1159.210526	47270.02924	29.4128044	1607.124183	0.119321793	18.73294177
CC03_09-102	1746	18	101.0882016	0.528610354	28.72518286	21.24087591	43.31926864	68.35497835	36.09195402	80.13071895	106.5517241	177.1653543	301.0588235	457.0281124	699.4444444	997.5806452	1247.894737	2360.708085	15.57323774	151.5874941	0.486133745	2.758030561
CC03_09-198	1746	16	101.0882016	0.291553134	23.45872518	12.99270073	30.80168776	67.53246753	38.73563218	84.96732026	121.0344828	199.7375328	324.3529412	504.8192771	759.1666667	1038.709677	1337.105263	4586.14609	15.7367004	291.4299676	0.508008998	4.28035758
CC03_09-131	2491	29	101.083902	0.018800109	7.836990596	0.525547445	2.587900436	11.34199134	2.724137931	36.50326797	64.48275862	116.5354331	199.0588235	296.7871486	431.9444444	578.2258065	759.2105263	40381.19756	20.79842624	1941.55063	0.113872846	73.43002724
CC03_09-185	1941	19	101.0819165	#VALUE!	12.87356322	0.525547445	8.129395218	#VALUE!	#VALUE!	70.03267974	#VALUE!	335.1706037	300.1176471	566.2650602	1363.888889	#VALUE!	6850	#VALUE!	97.81147923	#VALUE!	#VALUE!	378.9074542
CC03_09-140	1753	19	101.0268112	0.044141689	9.822361546	1.686131387	3.263009845	8.744588745	4.402298851	28.00653595	57.24137931	113.1233596	210.2352941	334.939759	517.2222222	705.6451613	930.7894737	21086.40351	33.23472333	634.4690551	0.239573558	11.27331065
CC03_09-148	1885	26	100.8488064	#VALUE!	4.963427377	0.503649635	1.434599156	7.272727273	1.310344828	23.69281046	40.34482759	69.29133858	118.1176471	181.124498	253.3333333	343.9516129	431.3157895	#VALUE!	18.20450091	#VALUE!	0.084632461	28.07082623
CC03_09-24	1763	20	100.7373795	1103.542234	1107.628004	1065.693431	1040.787623	770.5627706	142.4137931	549.0196078	448.2758621	485.5643045	580	742.9718876	976.9444444	1261.693548	1563.157895	1.416491228	2.847180451	0.497506657	0.215846764	1.015059428
CC03_09-120	1877	33	100.6925946	0.109536785	19.28944619	0.912408759	2.545710267	8.917748918	10.13793103	25.81699346	29.65517241	35.72178478	49.76470588	61.28514056	79.16666667	97.13709677	127.1052632	1160.388845	4.923317788	235.6924528	0.583734344	58.98612154

CC03_09-244	1732	23	100.6351039	#VALUE!	10.73145246	0.2189 78102	0.9142 05345	6.0606 06061	1.7701 14943	29.705 88235	60	117.06 03675	212.47 05882	342.97 18876	533.61 11111	711.69 35484	922.10 52632	#VALUE!	31.041 16727	#VALUE!	0.0989 81758	204.59 77657
CC03_09-235	1760	27	100.625	#VALUE!	11.609 1954	1.1386 86131	2.2644 16315	8.7012 98701	3.3218 3908	33.888 88889	66.034 48276	132.80 8399	235.88 23529	387.95 18072	577.77 77778	814.51 6129	1048.9 47368	#VALUE!	30.952 5453	#VALUE!	0.1559 90817	20.274 50847
CC03_09-126	1765	22	100.62 32295	#VALUE!	14.524 5559	0.3357 66423	1.0689 17018	7.7489 17749	1.7126 43678	37.777 77778	73.965 51724	142.51 9685	257.76 47059	416.86 74699	633.05 55556	839.51 6129	1106.5 78947	#VALUE!	29.291 79567	#VALUE!	0.0752 36898	137.71 2171
CC03_09-259	1863	19	100.59 04455	0.7356 94823	7.5235 10972	25.547 44526	40.787 62307	68.831 16883	35.632 18391	93.137 2549	165.51 72414	280.31 49606	461.17 64706	681.12 4498	972.22 22222	1279.4 35484	1528.9 47368	2078.2 35867	16.416 06648	126.59 76761	0.4399 89266	0.4701 69011
CC03_09-12	2508	16	100.51 83413	3.6512 26158	20.606 06061	16.496 35036	28.551 33615	45.454 54545	28.390 8046	42.483 66013	57.241 37931	84.514 4357	145.64 70588	256.62 6506	411.66 66667	667.33 87097	1028.6 84211	281.73 66457	24.213 64372	11.635 4502	0.6456 98975	2.1619 50101
CC03_09-218	1774	39	100.50 73281	0.2697 54768	7.1055 3814	3.0583 94161	8.5091 42053	48.138 52814	44.482 75862	155.88 23529	241.89 65517	412.59 84252	647.05 88235	914.45 78313	1211.1 11111	1536.2 90323	1913.1 57895	7092.2 1159	12.273 08838	577.86 69043	0.4360 60842	6.4639 17982
CC03_09-50	1844	28	100.48 80694	0.0231 60763	4.0438 87147	0.8905 10949	3.7693 38959	25.021 64502	6.0114 94253	114.70 58824	197.41 37931	329.13 38583	543.52 94118	782.73 09237	1068.0 55556	1361.2 90323	1684.2 10526	72718. 26625	14.682 861	4952.5 95156	0.0860 45955	19.221 42996
CC03_09-241	1859	27	100.48 41313	0.0514 98638	9.4252 87356	2.1021 89781	4.5569 62025	17.575 75758	6.8850 57471	43.921 56863	70.689 65517	119.94 75066	191.64 70588	290.36 14458	420.55 55556	569.75 80645	743.68 42105	14440. 85213	16.932 09586	852.86 85548	0.2239 14043	9.7191 02628
CC03_09-2	1880	28	100.47 87234	0.2179 83651	10.198 5371	2.9927 0073	6.6104 07876	19.004 329	7.8160 91954	50.326 79739	90.344 82759	151.70 60367	252.35 29412	379.91 96787	537.77 77778	675.80 64516	875.52 63158	4016.4 76974	17.396 8216	230.87 4183	0.2254 71368	7.5273 05768
CC03_09-266	1958	35	100.40 85802	#VALUE!	4.8171 36886	1.0218 9781	3.0098 45288	17.619 04762	4.7241 37931	60.588 23529	99.655 17241	173.49 08136	286.11 76471	430.92 36948	638.88 88889	866.93 54839	1118.4 21053	#VALUE!	18.459 3766	#VALUE!	0.1208 10691	13.884 11567
CC03_09-263	1752	25	100.39 95434	136.23 9782	140.02 08986	137.22 62774	142.05 34459	118.18 18182	48.965 51724	125.81 69935	123.96 55172	174.54 06824	251.05 88235	356.22 48996	511.38 88889	678.22 58065	846.05 26316	6.2100 26316	6.7244 70267	0.9234 96732	0.4013 58653	1.0562 58141
CC03_09-175	1733	27	100.34 62204	1.0463 21526	49.216 30094	38.759 12409	73.980 30942	129.00 4329	79.310 34483	128.43 13725	173.62 06897	262.46 71916	421.17 64706	663.45 38153	960.55 55556	1335.4 83871	1739.4 73684	1662.4 65735	13.543 99357	122.74 56087	0.6161 56534	2.4236 90748
CC03_09-111	1824	24	100.32 89474	0.0220 70845	6.6666 66667	0.9489 05109	2.5316 4557	12.510 82251	4.5977 01149	50.326 79739	95.862 06897	182.93 96325	334.47 05882	522.08 83534	763.05 55556	1007.6 6129	1284.2 10526	58185. 83496	25.517 42994	2280.2 38845	0.1463 35942	18.744 16398
CC03_09-80	1877	18	100.31 9659	0.6239 78202	10.344 82759	30.291 9708	64.978 90295	131.16 88312	84.022 98851	138.88 88889	174.31 03448	270.60 36745	420	614.05 62249	863.88 88889	1137.0 96774	1471.0 52632	2357.5 38497	10.591 57895	222.58 61232	0.6222 59482	0.7325 55566
CC03_09-249	1951	57	100.25 62788	0.9264 30518	6.5517 24138	5.7810 21898	14.571 02672	45.151 51515	17.471 26437	112.41 83007	159.82 75862	264.82 93963	428.23 52941	607.22 89157	840.55 55556	1095.1 6129	1318.4 21053	1423.1 19195	11.727 81518	121.34 56363	0.2217 59025	2.8565 15131
CC03_09-37	1772	38	100.16 93002	0.0351 49864	6.5830 721	1.3503 64964	3.7271 44866	19.264 06926	8.7931 03448	77.124 18301	132.75 86207	223.88 45144	375.29 41176	532.93 17269	705.83 33333	894.75 80645	1142.1 05263	32492. 45206	14.808 65299	2194.1 53113	0.1824 51766	13.455 58433

CC03_09-164	1779	20	100.1124227	0.561307902	12.22570533	16.9330657	33.8992124	60.1716017	29.6517241	102.6143791	171.5517241	326.2467192	580	900	1327.777778	1841.129032	2339.473684	4167.897292	22.79869259	182.8129957	0.3643042044	1.4450 62165
CC03_09-58	1738	28	99.8849252	0.735694823	22.57053292	29.9270073	52.0338115	65.8008658	40.2288506	87.5869935	117.2413793	193.175853	306.8235294	490.3614458	706.1111111	935.483871	1168.421053	1588.187135	13.34092694	119.0462358	0.5245 69204	1.3114 36774
CC03_09-99	1838	24	99.7823 7214	0.03133515	7.607105538	0.166423358	0.571026723	5.497835498	1.436781609	26.47058824	52.93103448	110.2362205	199.2941176	330.5220884	500.2777778	691.1290323	876.3157895	27965.90389	33.10526316	844.7570332	0.0898 87548	156.83 65624
CC03_09-66	1763	38	99.7731 1401	0.250681199	37.25182863	11.02189781	24.6132082	56.7095671	40.5741264	81.0475163	101.2068966	146.7191601	226.4705882	342.9718876	493.6111111	693.5483871	920	3670	11.3516129	323.3020745	0.5890 82124	7.5475 02822
CC03_09-84	2547	31	99.7251 6686	0.122615804	22.25705329	2.664233577	7.35583685	36.36363636	19.1954023	105.5555556	165.5172414	249.343832	387.0588235	550.2008032	763.8888889	987.9032258	1297.368421	10580.76023	12.29085873	860.8641975	0.2705 11719	23.065 0903
CC03_09-228	1749	21	99.7141 2236	0.100817439	21.43155695	5.218978102	13.8396245	44.9785498	23.1034828	71.56862745	112.2413793	193.9632546	341.1764706	536.9477912	785.2777778	1082.258065	1402.894737	13915.19915	19.60209084	709.8834128	0.3964 65834	10.889 50832
CC03_09-144	2322	17	99.6554 6942	0.158038147	14.89028213	8.321167883	19.2683572	47.6190476	21.7241379	91.50326797	141.2068966	233.0708661	363.1764706	550.6024096	754.1666667	947.1774194	1139.473684	7210.117967	12.45281955	578.9948163	0.3123 02708	4.1436 7156
CC03_09-123	1812	23	99.6136 8653	0.117166213	5.506792059	4.445255474	12.2362 8692	35.1082 2511	20.2298 8506	107.5163399	171.7241379	290.5511811	491.7647059	687.9518072	981.3888889	1239.516129	1591.842105	13586.18727	14.80558311	917.6394589	0.2836 80235	3.4100 03921
CC03_09-121	1862	41	99.5703 5446	0.133514986	21.49425287	1.562043796	2.95358 6498	14.1125 5411	11.2298 8506	28.66013072	34.65517241	43.22834646	56.82352941	68.19277108	83.61111111	100.1209677	127.8947368	957.905478	4.462461742	214.6585301	0.5250 96103	26.018 70251
CC03_09-46	1804	21	99.5565 4102	0.245231608	11.18077325	12.84671533	23.4884501	36.7965368	21.7241379	50	73.96551724	131.496063	233.5294118	363.4538153	528.8888889	739.516129	921.3157895	3756.921053	18.42631579	203.8888889	0.5005 76146	1.5912 35682
CC03_09-60	1794	33	99.5540 6912	0.029155313	13.17659352	1.350364964	3.95218 0028	14.3290 0433	15.4945 25287	36.20915033	56.72413793	86.87664042	138.5882353	226.1044177	361.3888889	559.2741935	815.2631579	27962.76439	22.51539046	1241.940016	0.6131 70504	28.558 64155
CC03_09-151	1823	35	99.5063 0828	0.009809264	6.081504702	0.343065693	1.12517 5809	6.01731 6017	2.42528 7356	29.50980392	57.4137931	108.6614173	200.1176471	320.0803213	472.5	650.8064516	836.8421053	85311.40351	28.35810456	3008.360566	0.1365 31605	58.140 2442
CC03_09-267	1966	26	99.4404883	0.138964578	7.523510972	6.452554745	17.7355368	46.5808658	18.0459701	92.74509804	139.6551724	222.3097113	351.1764706	518.875502	763.6111111	1013.306452	1298.684211	9345.433437	14.00272616	667.4009996	0.2590 48313	3.2048 12669
CC03_09-55	1921	37	99.3753 2535	0.063760218	2.530825496	1.554744526	6.00562 5879	31.1688 3117	2.82758 6207	117.9738562	180.3448276	307.0866142	473.0588235	693.5742972	917.5	1206.854839	1497.631579	23488.49528	12.69460563	1850.273728	0.0379 17866	6.2878 53329
CC03_09-68	1886	20	99.3637 3277	0.239782016	4.764890282	12.62773723	28.6919 8312	69.6969697	42.8735 6322	109.8039216	174.6551724	301.0498688	461.1764706	659.8393574	894.4444444	1143.951613	1381.578947	5761.812201	12.58223684	457.9322638	0.4776 97497	0.8573 58385
CC03_09-230	1747	22	99.3131 0819	0.395095368	10.90909091	17.73722628	31.5049 2264	55.8441 5584	31.6091954	83.33333333	137.5862069	239.8950131	414.5882353	645.3815261	930.8333333	1244.354839	1555.263158	3936.424682	18.66315789	210.9195402	0.4542 28562	1.0924 34899

CC03_09-30	1843	23	99.29462832	0.130790191	7.993730408	5.328467153	10.82981716	29.87012987	16.55172414	65.68627451	119.8275862	213.1233596	378.1176471	583.935743	850.2777778	1141.935484	1450.526316	11090.48246	22.08263943	502.2263072	0.346428358	3.049060459
CC03_09-209	1793	23	99.27495817	0.068119891	18.00417973	2.481751825	5.76652602	24.67532468	10.68965517	64.05228758	112.0689655	224.1469816	397.6470588	648.1927711	961.1111111	1334.677419	1747.368421	25651.36842	27.28034372	940.2875817	0.24095442	16.856 6355
CC03_09-154	1822	23	99.17672887	0.14986376	5.120167189	7.372262774	15.61181435	53.24675325	24.13793103	106.2091503	182.7586207	304.4619423	540	817.2690763	1194.444444	1616.935484	2086.842105	13924.92823	19.64842105	708.704694	0.302753683	1.470740 01
CC03_09-81	1836	35	99.12854031	0.455040872	19.54022989	16.86131387	33.75527426	55.84415584	32.18390805	85.62091503	129.6551724	212.0734908	343.8823529	524.497992	756.9444444	966.5322581	1287.894737	2830.283643	15.04182403	188.160933	0.455008545	2.320002668
CC03_09-113	1874	39	98.93276414	1.498637602	3.897596656	1.510948905	2.601969058	13.41991342	6.333333333	63.07189542	109.6551724	214.4356955	361.1764706	510.0401606	716.6666667	879.0322581	1107.894737	739.2679426	17.56558495	42.08615567	0.165595073	4.442213883
CC03_09-92	1774	29	98.87260428	0.158038147	40.7523511	6.350364964	17.15893108	77.92207792	65.51724138	94.77124183	106.8965517	199.4750656	375.2941176	651.4056225	1150	1778.225806	2539.473684	16068.73866	26.79582577	599.6732026	0.758769841	17.339 85767
CC03_09-171	1737	34	98.84858952	0.378746594	13.57366771	14.89051095	30.37974684	60.60606061	30.68965517	95.09803922	137.9310345	235.9580052	374.1176471	555.8232932	755.5555556	979.8387097	1231.578947	3251.722832	12.95062398	251.0861899	0.394204844	1.859782527
CC03_09-221	1769	31	98.81288864	1.136239782	49.947534	34.30656934	63.29113924	73.59307359	51.6091954	86.60130719	113.7931034	187.1391076	317.6470588	496.7871486	738.8888889	1067.33871	1418.421053	1248.346586	16.37874876	76.21745741	0.644332156	2.685989375
CC03_09-82	1774	29	98.75986471	0.269754768	10.87774295	8.065693431	22.9254571	65.84415584	14.59770115	164.0522876	233.1034483	366.9291339	555.7647059	771.0843373	969.4444444	1189.516129	1447.631579	5366.472621	8.824208429	608.1534297	0.12699371	3.833304983
CC03_09-232	1833	25	98.7452264	0.825613079	10.78369906	8.175182482	18.00281294	58.00865801	25.63218391	139.2156863	223.7931034	390.5511811	640	948.9959839	1291.666667	1614.516129	1989.473684	2409.692548	14.29058562	168.6209797	0.259929209	2.904779811
CC03_09-77	1839	35	98.53181077	0.395095368	15.71577847	0.912408759	1.983122363	11.12554113	2.942528736	42.25490196	67.06896552	117.0603675	195.7647059	292.7710843	408.6111111	543.1451613	697.8947368	1766.395644	16.51630236	106.9486139	0.110247445	37.43747233
CC03_09-203	1763	34	98.52524107	0.065940054	11.49425287	4.379562044	11.25175809	38.0952381	25.86206897	87.58169935	136.3793103	240.9448819	380	570.6827309	797.2222222	1060.483871	1384.210526	20991.95302	15.80479183	1328.201804	0.411564277	6.742792067
CC03_09-72	1778	30	98.36895388	57.22070845	65.830721	66.42335766	80.16877637	112.1212121	47.5862069	124.5098039	163.1034483	252.2309711	394.1176471	575.9036145	802.7777778	1006.854839	1302.631579	22.76503759	10.4620804	2.175957049	0.402197545	1.196168 1
CC03_09-48	1750	36	98.34285714	0.185286104	30.10449321	7.810218978	17.29957806	40.51948052	25.74712644	68.62745098	100	168.2414698	262.1176471	394.7791165	567.2222222	770.5645161	984.7368421	5314.682663	14.34902256	370.3863899	0.47178837	8.537690559
CC03_09-118	1815	27	98.2369146	1.825613079	28.31765935	70.0729927	113.9240506	148.0519481	87.35632184	135.2941176	160.5172414	263.7795276	432.9411765	648.1927711	965	1252.419355	1636.842105	896.598586	12.09839817	74.10886743	0.616605151	0.657009183
CC03_09-262	1817	27	98.07374794	0.207084469	7.910135841	9.883211679	20.47819972	41.47186147	21.83908046	82.51633987	133.4482759	234.6456693	405.7647059	614.0562249	899.4444444	1239.112903	1521.052632	7345.083102	18.4333507	398.4670623	0.352276753	1.658362702

CC03_09-135	1747	22	97.88208357	0.403269755	18.47439916	16.64233577	37.27144866	75.75757576	42.29885057	91.83006536	134.137931	214.4356955	347.0588235	535.7429719	788.8888889	1053.225806	1339.473684	3321.532717	14.58643941	227.7137432	0.504796777	2.486096811
CC03_09-4	1800	30	97.61111111	0.158038147	15.66353187	8.394160584	16.91983122	35.88744589	20.45977011	57.35294118	85.68965517	146.1942257	244.5882353	361.8473896	526.1111111	711.2903226	911.5789474	5768.094374	15.89419703	362.9056795	0.438860686	3.761241119
CC03_09-38	1804	27	97.39467849	1.0626703	36.05015674	14.59854015	24.61322082	59.74025974	33.44827586	72.87581699	99.13793103	171.6535433	281.6470588	422.4899598	625.2777778	854.0322581	1122.105263	1055.929825	15.39749823	68.5780124	0.504437723	4.163482545
CC03_09-70	1800	30	97.27777778	0.065940054	8.955067921	0.766423358	2.925457103	19.52380952	7.183908046	86.11111111	156.8965517	279.2650919	459.7647059	675.9036145	941.9444444	1188.709677	1517.105263	23007.34015	17.6179966	1305.899908	0.136013886	44.59900344
CC03_09-128	1756	41	97.2095672	0.08719346	6.102403344	3.649635036	7.735583685	22.94372294	12.52873563	48.36601307	81.55172414	139.8950131	239.6470588	364.2570281	522.2222222	680.6451613	875.7894737	10044.21053	18.10753912	554.6977124	0.351389202	3.544001151
CC03_09-184	1893	18	97.2002113	2.179836512	31.24346917	48.24817518	194.5147679	#VALUE!	#VALUE!	276.7973856	#VALUE!	1183.727034	1200	2165.863454	4155.555556	#VALUE!	11355.26316	5209.226974	41.02373703	126.9808007	#VALUE!	2.610658378
CC03_09-127	1767	23	96.94397284	1.130790191	24.45141066	44.45255474	88.88888889	121.6450216	76.55172414	133.9869281	176.8965517	290.0262467	492.9411765	722.4899598	1081.666667	1437.5	1850	1636.024096	13.80731707	118.4896449	0.598921412	1.099912015
CC03_09-226	1768	24	96.71945701	1.125340599	60.12539185	44.45255474	84.81012658	142.4242424	89.54022989	192.8104575	256.2068966	414.9606299	658.8235294	973.8955823	1368.055556	1799.596774	2226.315789	1978.348413	11.54665477	171.3352007	0.534194282	2.580549418
CC03_09-145	1779	31	96.62731872	4.768392371	96.13375131	183.9416058	312.2362869	367.965368	214.9425287	326.7973856	348.2758621	477.6902887	680	983.935743	1311.111111	1697.580645	2165.789474	454.1969925	6.627315789	68.5340803	0.618750869	0.887154615
CC03_09-152	2683	18	96.49645919	1.444141689	4.900731452	1.445255474	3.17862166	24.1991342	3.206896552	90.13071895	136.8965517	187.664042	249.4117647	269.0763052	314.7222222	322.5806452	315.7894737	218.6693148	3.503683066	62.41127143	0.056099023	7.457795959
CC03_09-174	1827	34	96.22331691	7.792915531	17.1368861	25.10948905	43.03797468	86.83982684	42.4137931	136.9281046	203.7931034	319.4225722	490.5882353	696.7871486	964.4444444	1214.516129	1544.736842	198.2232241	11.28137169	17.57084419	0.379087324	1.169790217
CC03_09-160	1881	30	96.1722488	1.089918256	25.80982236	48.90510949	92.82700422	201.7316017	119.5402299	172.2222222	194.8275862	244.0944882	355.2941176	497.9919679	755.5555556	1020.16129	1213.157895	1113.072368	7.044142615	158.0138889	0.639331502	1.001730459
CC03_09-10	1890	30	95.76719577	0.332425068	12.22570533	16.71532847	38.8185654	77.92207792	50.22988506	107.8431373	140.6896552	223.6220472	334.1176471	491.1646586	636.1111111	838.7096774	1039.473684	3126.941329	9.638755981	324.4133719	0.54078892	1.698570491
CC03_09-177	1864	42	95.33261803	0.245231608	11.18077325	8.832116788	19.12798875	61.47186147	35.51724138	98.69281046	175.1724138	284.2519685	431.7647059	644.5783133	930.2777778	1278.629032	1534.210526	6256.169591	15.54531196	402.4473493	0.443509058	2.741647029
CC03_09-116	1781	22	95.28354857	0.866485014	28.35945664	35.25547445	67.22925457	109.5238095	65.28735632	133.9869281	157.5862069	235.4330709	349.4117647	479.9196787	660.2777778	849.1935484	1042.105263	1202.681231	7.777663671	154.6327126	0.536217474	1.533921286
CC03_09-238	2498	18	95.27622098	0.479564033	43.78265413	21.31386861	46.55414909	94.80519481	71.49425287	124.1830065	140	190.8136483	264.3529412	370.6827309	566.1111111	816.5322581	1097.631579	2288.811304	8.838822715	258.949792	0.652950729	4.486791719

CC03_09-197	1896	23	94.98945148	0.940054496	23.92894462	38.32116788	79.74683544	167.0995671	102.8735632	213.7254902	244.8275862	316.2729659	445.7647059	576.3052209	784.1666667	949.5967742	1198.421053	1274.842105	5.607291164	227.354362	0.540266777	1.299449871
CC03_09-49	1763	21	94.61145774	5.912800654	117.0323929	227.7372263	413.5021097	571.4285714	336.7816092	398.6928105	355.1724138	433.0708661	567.0588235	789.9598394	1111.111111	1451.612903	1776.315789	300.4183847	4.455349439	67.42869191	0.694308188	0.933073297
CC03_09-101	2519	19	94.08495435	4.577656676	29.54022989	46.35036496	93.81153305	185.7142857	116.6666667	258.8235294	329.4827586	472.9658793	664.7058824	929.7188755	1237.222222	1576.612903	1881.315789	410.9779135	7.268720096	56.54061625	0.524889729	1.289923003
CC03_09-147	1848	31	94.04761905	0.825613079	15.87251829	26.49635036	58.2278481	119.9134199	75.28735632	137.9084967	154.3103448	206.5616798	287.1764706	392.7710843	528.0555556	694.3548387	813.6842105	985.5515025	5.900174607	167.0376842	0.584026039	1.316450278
CC03_09-97	1777	28	92.79684862	3.269754768	92.26750261	143.7956204	267.2292546	348.0519481	218.3908046	281.6993464	298.2758621	406.824147	600	854.2168675	1261.111111	1733.870968	2105.263158	643.8596491	7.47343998	86.15305011	0.693577946	1.192453487
CC03_09-9	1927	20	92.68292683	277.9291553	283.1765935	321.1678832	360.0562588	337.6623377	125.2873563	281.0457516	279.3103448	367.4540682	535.2941176	735.3413655	1000	1302.419355	1571.052632	5.652708978	5.59002448	1.011213636	0.404996665	0.988470014
CC03_09-243	1782	22	92.59259259	1.891008174	33.43782654	75.91240876	137.6933896	211.6883117	113.908046	217.3202614	273.6206897	390.5511811	583.5294118	812.4497992	1102.222222	1393.951613	1715.789474	907.3411194	7.895211713	114.9229625	0.531029229	0.798961013
CC03_09-61	1990	18	92.56281407	0.667574932	10.88819227	29.12408759	68.77637131	138.5281385	70	214.7058824	308.7931034	520.2099738	841.1764706	1220.481928	1691.666667	2204.032258	2626.315789	3934.113856	12.23215573	321.6206483	0.396337815	0.882857036
CC03_09-67	1901	18	92.26722777	5.422343324	67.18913271	206.5693431	351.6174402	406.9264069	236.7816092	303.9215686	331.0344828	485.5643045	663.5294118	903.6144578	1227.777778	1556.451613	1810.526316	333.9010844	5.95721562	56.04985713	0.666194791	0.553653062
CC03_09-172	1894	24	92.23864836	9.754768392	120.1671891	341.6058394	580.8720113	727.2727273	422.9885057	481.6993464	405.1724138	456.167979	575.2941176	744.9799197	1002.777778	1237.096774	1515.789474	155.3895913	3.146754267	49.38091065	0.69974901	0.598157816
CC03_09-210	1817	22	92.12988442	1.141689373	69.07001045	52.84671533	117.2995781	233.3333333	150.1149425	205.2287582	201.0344828	263.2545932	379.2941176	549.7991968	836.6666667	1177.016129	1585.526316	1388.754553	7.725653704	179.7588407	0.684577783	2.901014994
CC03_09-250	1961	24	91.89189189	0.863760218	11.54649948	29.41605839	66.10407876	124.2424242	76.55172414	124.8366013	141.2068966	160.6299213	181.2941176	205.2208835	247.2222222	291.5322581	326.8421053	378.3944878	2.618159273	144.526917	0.614678205	0.882088338
CC03_09-150	1855	17	91.85983827	3.514986376	46.70846395	136.4963504	264.416315	459.3073593	289.6551724	359.8039216	362.0689655	459.5800525	587.0588235	714.8594378	934.7222222	1145.967742	1284.210526	365.3529172	3.569195468	102.3628211	0.707242542	0.662890439
CC03_09-134	1772	34	91.81715576	0.564032698	18.07732497	26.35036496	59.07172996	108.6580087	71.26436782	98.69281046	110.1724138	165.6167979	240	378.7148594	491.3888889	683.0645161	868.4210526	1539.664378	8.799233182	174.9771084	0.68737966	1.537944225
CC03_09-216	2015	27	91.81141439	0.697547684	30.09404389	30.72992701	64.83825598	114.7186147	82.64367816	139.2156863	158.1034483	220.9973753	316.9411765	446.184739	648.0555556	884.2741935	1158.421053	1660.705181	8.321052632	199.5787377	0.650905985	2.066278312
CC03_09-208	1768	22	91.79864253	2.833787466	26.65621735	32.26277372	62.72855134	117.7489177	81.72413793	97.38562092	92.75862069	113.3858268	167.5294118	247.3895582	393.8888889	568.1451613	747.8947368	263.9205466	7.679724479	34.36588738	0.759749117	1.606424705

CC03_09-157	1859	25	91.76976869	6.130790191	88.81922675	240.8759124	406.4697609	441.5584416	262.0689655	297.3856209	300	393.7007874	563.5294118	819.2771084	1133.333333	1483.870968	1836.842105	299.6093567	6.176633892	48.50689906	0.709306641	0.622226473
CC03_09-110	1808	27	91.31637168	0.994550409	48.38035528	51.82481752	105.4852321	227.7056277	151.7241379	227.7777778	279.3103448	356.4304462	528.2352941	735.3413655	1022.222222	1326.612903	1726.315789	1735.775054	7.578947368	229.0258752	0.666211485	1.900138041
CC03_09-44	1799	20	91.21734297	0.891008174	19.12225705	41.02189781	87.6230661	203.4632035	128.7356322	205.2287582	237.9310345	335.6955381	529.4117647	778.7148594	1100	1467.741935	1805.263158	2026.090455	8.79634596	230.3331934	0.62998857	0.995694484
CC03_09-88	2037	19	91.2125675	2.04359673	35.94566353	74.52554745	155.9774965	298.7012987	197.7011494	287.254902	316.2068966	431.496063	617.6470588	892.7710843	1202.777778	1568.548387	1902.631579	931.0210526	6.623495599	140.5633987	0.674798387	1.009480886
CC03_09-256	1801	29	91.17157135	0.604904632	40.94043887	27.08029197	59.77496484	130.7359307	84.71264368	157.8431373	204.4827586	296.5879265	460	655.4216867	950	1250	1560.526316	2579.789	9.886564237	260.9388801	0.587100179	3.337068629
CC03_09-64	2068	15	90.66731141	0.288828338	7.178683386	13.35766423	31.7862166	83.98268398	46.66666667	151.6339869	222.4137931	366.6666667	586.9411765	895.9839357	1346.944444	1842.33871	2352.631579	8145.431976	15.51519964	524.996917	0.39612364	1.278858789
CC03_09-192	1750	21	90.65142857	1.291553134	31.11807732	54.45255474	114.7679325	193.9393939	114.9425287	245.751634	300.862069	448.5564304	655.0588235	908.4337349	1222.5	1518.548387	1877.105263	1453.370531	7.638220885	190.2760542	0.522833178	1.204472234
CC03_09-91	1833	20	90.61647572	2.697547684	41.79728318	98.54014599	198.3122363	306.0606061	182.7586207	292.1568627	319.8275862	454.855643	669.4117647	918.875502	1244.444444	1584.274194	1886.842105	699.4657097	6.458318615	108.3046148	0.611010645	0.853632935
CC03_09-193	2386	20	90.36043588	2.207084469	88.40125392	95.10948905	185.0914205	337.2294372	230.8045977	321.2418301	330.1724138	457.7427822	670.5882353	981.5261044	1455.555556	2016.129032	2678.947368	1213.794672	8.339347861	145.5503107	0.701031645	1.808826936
CC03_09-41	1804	22	90.29933481	1.553133515	45.97701149	64.23357664	130.8016878	245.8874459	168.9655172	195.0980392	179.4827586	222.3097113	312.9411765	439.7590361	650.5555556	899.5967742	1100	708.245614	5.638190955	125.6157551	0.766308747	1.457571529
CC03_09-117	1813	24	90.29233315	0.659400545	20.58516196	27.95620438	61.32208158	120.3463203	82.87356322	146.7320261	175.3448276	259.5800525	403.4117647	559.8393574	792.7777778	1006.048387	1261.842105	1913.620052	8.599636619	222.523362	0.620593652	1.615157072
CC02_10-224	1857	30	104.7388261	#VALUE!	12.24660397	0.708029197	2.812939522	15.9740257	2.655172414	63.39869281	112.9310345	192.6509186	322.8235294	465.4618474	652.5	836.2903226	1038.684211	#VALUE!	16.38336951	#VALUE!	0.066903905	68.71851006
CC02_10-155	1772	23	104.4582393	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	502.0080321	#VALUE!	1004.032258	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-245	1849	17	103.4613304	0.14986376	11.52560084	6.204379562	11.71589311	21.6017316	9.83908046	53.23529412	86.03448276	158.5301837	267.4117647	396.7871486	577.5	772.5806452	1003.157895	6693.799043	18.84384996	355.2245989	0.26294686	3.507860049
CC02_10-246	1847	30	103.3567948	#VALUE!	6.948798328	#VALUE!	1.29395218	9.393939394	3.816091954	45.29411765	82.4137931	155.9055118	255.6470588	404.4176707	590	818.1451613	1076.842105	#VALUE!	23.77443609	#VALUE!	0.139558513	#VALUE!
CC02_10-255	1764	38	103.3446712	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	125.7217848	208.5882353	315.6626506	443.8888889	604.8387097	791.0526316	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

CC02_10-70	1737	33	103.1663788	0.026975477	12.65412748	0.3248 17518	1.0829 81716	8.7012 98701	2.0804 5977	36.241 83007	71.896 55172	140.94 48819	242	378.31 3253	576.66 66667	775	988.15 78947	36631. 71186	27.265 6732	1343.5 10266	0.0925 81884	129.88 96188
CC02_10-42	1862	21	102.68 52846	0.1961 85286	3.5005 22466	7.8832 11679	13.783 40366	31.168 83117	16.666 66667	94.444 44444	181.20 68966	359.84 25197	636.47 05882	1002.0 08032	1394.4 44444	1903.6 29032	2473.6 84211	12608. 91813	26.191 95046	481.40 4321	0.2653 64733	0.7763 95425
CC02_10-2	2152	21	102.50 92937	14.713 89646	22.048 06688	#VALUE!	#VALUE!	#VALUE!	#VALUE!	89.869 28105	137.93 10345	232.02 09974	362	516.06 4257	737.77 77778	987.5	1198.4 21053	81.448 24561	13.335 15789	6.1077 82619	#VALUE!	#VALUE!
CC02_10-46	2509	29	102.35 15345	#VALUE!	21.253 9185	#VALUE!	#VALUE!	#VALUE!	#VALUE!	87.581 69935	137.58 62069	219.16 0105	330.70 58824	493.57 42972	672.77 77778	911.69 35484	1252.8 94737	#VALUE!	14.305 43991	#VALUE!	#VALUE!	#VALUE!
CC02_10-220	1782	46	102.18 85522	156.94 82289	143.15 56949	131.38 68613	122.36 28692	98.701 2987	28.275 86207	145.75 1634	184.48 27586	280.57 74278	440.47 05882	593.17 26908	795.83 33333	1004.8 3871	1268.4 21053	8.0817 79971	8.7026 19778	0.9286 60585	0.2313 39929	1.0147 39124
CC02_10-69	1757	29	102.16 27775	0.2752 0436	23.406 47858	10.145 9854	24.753 86779	52.380 95238	25.287 35632	73.202 61438	105.34 48276	187.92 65092	310.58 82353	467.46 98795	691.66 66667	971.77 41935	1221.0 52632	4436.8 94216	16.680 45113	265.99 36582	0.4027 176	5.6284 74223
CC02_10-50	1767	32	102.15 05376	#VALUE!	25.015 67398	#VALUE!	#VALUE!	#VALUE!	#VALUE!	56.666 66667	90.517 24138	150.91 86352	260.11 76471	403.61 44578	600.55 55556	839.91 93548	1125	#VALUE!	19.852 94118	#VALUE!	#VALUE!	#VALUE!
CC02_10-228	1733	22	102.01 96192	1.9891 00817	40.647 85789	89.781 0219	189.87 34177	270.99 5671	157.47 12644	185.94 77124	198.96 55172	247.24 40945	368.94 11765	518.07 22892	718.05 55556	960.08 06452	1176.3 15789	591.38 06777	6.3260 56794	93.483 302	0.6892 3753	0.9574 86684
CC02_10-184	2500	17	101.88	0.4332 42507	38.035 52769	18.175 18248	36.427 56681	56.709 95671	37.931 03448	86.601 30719	119.48 27586	191.07 61155	300.70 58824	441.36 54618	646.38 88889	877.82 25806	1161.5 78947	2681.1 28765	13.412 94935	199.89 10675	0.5293 51754	4.1943 24713
CC02_10-13	1787	51	101.84 66704	0.3297 00272	12.633 22884	14.452 55474	34.036 56821	65.800 8658	29.310 34483	104.57 51634	141.55 17241	231.75 85302	376.47 05882	544.57 83133	741.66 66667	967.74 19355	1228.9 47368	3727.4 68465	11.751 80921	317.18 25204	0.3440 66533	2.0585 94851
CC02_10-154	1766	23	101.81 20045	#VALUE!	23.866 24869	#VALUE!	#VALUE!	#VALUE!	#VALUE!	50.130 71895	98.103 44828	181.36 48294	321.52 94118	489.95 98394	731.11 11111	992.33 87097	1272.6 31579	#VALUE!	25.386 26227	#VALUE!	#VALUE!	#VALUE!
CC02_10-37	1839	21	101.79 44535	#VALUE!	8.7251 82863	0.4087 59124	1.2376 9339	10.173 16017	1.4597 70115	49.281 04575	90.517 24138	170.60 36745	283.88 23529	434.53 81526	600.55 55556	791.53 22581	994.47 36842	#VALUE!	20.179 63842	#VALUE!	0.0491 05697	64.632 75814
CC02_10-241	1860	33	101.72 04301	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	137.17 64706	208.03 21285	304.16 66667	436.69 35484	565.78 94737	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-73	1905	33	101.62 72966	#VALUE!	14.796 23824	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	107.61 15486	206.35 29412	339.75 90361	535	786.29 03226	1055.2 63158	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-218	1792	32	101.61 83036	#VALUE!	8.6938 34901	#VALUE!	#VALUE!	#VALUE!	#VALUE!	38.071 89542	78.620 68966	148.81 88976	274.82 35294	428.11 24498	616.66 66667	830.24 19355	1064.4 73684	#VALUE!	27.959 5663	#VALUE!	#VALUE!	#VALUE!
CC02_10-106	1738	22	101.61 10472	#VALUE!	14.932 07941	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	151.44 35696	260.11 76471	377.10 84337	523.61 11111	700.40 32258	887.10 52632	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

CC02_10-147	1755	30	101.5954416	2.779291553	8.850574713	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	43.27586207	87.27034121	156.5882353	248.9959839	368.0555556	504.0322581	663.9473684	238.8908669	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-233	2388	17	101.4656616	0.092643052	16.38453501	4.817518248	9.563994374	16.1038961	4.137931034	55.45751634	95.34482759	172.1784777	288.3529412	438.5542169	608.0555556	784.6774194	964.7368421	10413.48297	17.39596191	598.6149558	0.115646992	6.751910794
CC02_10-125	2533	25	101.4607185	0.14986376	7.115987461	0.591240876	1.603375527	10.43290043	5.781609195	37.15686275	62.93103448	117.0603675	184.5882353	283.935743	406.1111111	563.7096774	733.4210526	4893.91866	19.73850854	247.9376114	0.242977011	32.63933515
CC02_10-55	1836	22	101.3616558	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	522.983871	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-257	2500	31	101.36	122.6158038	185.9979101	204.379562	212.3769339	164.5021645	25.17241379	192.8104575	218.9655172	320.2099738	481.1764706	686.3453815	916.6666667	1197.580645	1568.421053	12.79134503	8.134522748	1.572476398	0.140898542	0.945671896
CC02_10-223	1873	33	101.3347571	#VALUE!	5.26645768	#VALUE!	#VALUE!	38.26839827	#VALUE!	126.7973856	201.7241379	322.3097113	501.1764706	695.9839357	900.2777778	1177.822581	1428.947368	#VALUE!	11.26953337	#VALUE!	#VALUE!	#VALUE!
CC02_10-98	1755	19	101.3105413	#VALUE!	14.4723093	#VALUE!	#VALUE!	#VALUE!	#VALUE!	45.81699346	89.82758621	170.3412073	302.9411765	480.3212851	704.1666667	957.6612903	1229.210526	#VALUE!	26.82870336	#VALUE!	#VALUE!	#VALUE!
CC02_10-129	1857	21	101.1308562	0.070844687	7.993730408	4.671532847	11.95499297	34.1991342	14.59770115	55.88235294	77.06896552	115.7480315	177.0588235	267.0682731	379.1666667	520.5645161	662.6315789	9353.299595	11.85761773	788.800905	0.324099915	4.379051056
CC02_10-36	2515	31	101.1133201	#VALUE!	22.83176594	#VALUE!	#VALUE!	#VALUE!	#VALUE!	38.95424837	60.17241379	107.3490814	172.7058824	257.4297189	374.1666667	521.3709677	702.8947368	#VALUE!	18.04410986	#VALUE!	#VALUE!	#VALUE!
CC02_10-230	1904	28	101.1029412	#VALUE!	14.73354232	0.518248175	1.856540084	10.86580087	1.931034483	41.4379085	69.13793103	120.9973753	203.1764706	315.2610442	456.1111111	584.6774194	750.2631579	#VALUE!	18.10571974	#VALUE!	0.073839294	101.8441158
CC02_10-3	1816	23	101.1013216	0.019073569	7.628000418	0.569343066	1.786216596	10.64935065	2.609195402	61.60130719	116.0344828	228.0839895	397.4117647	598.3935743	868.0555556	1137.903226	1430	74972.85714	23.2137931	3229.668534	0.072226205	42.03363721
CC02_10-151	1786	23	101.0638298	3.188010899	5.538140021	#VALUE!	#VALUE!	#VALUE!	#VALUE!	77.77777778	223.1034483	507.6115486	1045.882353	1840.160643	3147.222222	4762.096774	6352.631579	1992.663068	81.67669173	24.39696106	#VALUE!	#VALUE!
CC02_10-171	1878	21	101.0117146	0.288828338	9.435736677	12.26277372	25.3164557	#VALUE!	#VALUE!	46.07843137	65	107.6115486	181.2941176	312.8514056	485.8333333	665.3225806	841.3157895	2912.857498	18.25834267	159.5357011	#VALUE!	1.588551459
CC02_10-26	1779	26	100.955593	#VALUE!	4.848484848	#VALUE!	#VALUE!	#VALUE!	#VALUE!	46.66666667	128.6206897	309.7112861	634.1176471	1147.389558	1961.111111	2895.16129	3992.105263	#VALUE!	85.54511278	#VALUE!	#VALUE!	#VALUE!
CC02_10-64	1785	35	100.952381	0.449591281	14.73354232	16.86131387	29.95780591	34.63203463	19.08045977	47.05882353	69.31034483	117.847769	195.6470588	291.9678715	433.6111111	580.6451613	727.6315789	1618.429027	15.46217105	104.6702317	0.467138189	1.552509807
CC02_10-196	1893	26	100.9508716	1.141689373	13.09299896	37.51824818	76.37130802	96.53679654	59.54022989	60.45751634	57.4137931	64.56692913	76.23529412	101.6064257	151.1111111	191.9354839	249.4736842	218.5127497	4.126429587	52.95443555	0.758501742	0.710369421

CC02_10-226	2043	44	100.9300049	#VALUE!	13.61546499	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	27.93103448	56.43044619	108.3529412	184.3373494	288.8888889	424.1935484	617.8947368	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-213	1877	33	100.6925946	#VALUE!	11.5569488	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	58.53018373	96.94117647	155.0200803	234.7222222	313.7096774	437.8947368	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-231	1741	23	100.689259	0.326975477	41.06583072	12.26277372	26.72292546	99.13419913	42.75862069	240.1960784	367.4137931	627.0341207	1015.294118	1433.73494	1927.777778	2399.193548	2934.210526	8973.79386	12.21589689	734.5996732	0.252017716	7.297719788
CC02_10-11	2062	20	100.6304559	0.392370572	146.6039707	20.3649635	48.2419128	95.67099567	50	165.0326797	281.8965517	527.5590551	964.7058824	1613.253012	2458.333333	3254.032258	4113.157895	10482.83991	24.92329338	420.6041213	0.383577254	17.05308592
CC02_10-221	1939	25	100.6188757	1.760217984	21.21212121	70.3649635	132.2081575	163.2034632	78.8505747 1	197.3856209	308.4482759	512.8608924	821.1764706	1242.570281	1661.111111	2122.177419	2586.842105	1469.614633	13.10552457	112.1370323	0.437343104	0.566408053
CC02_10-229	1900	26	100.5789474	#VALUE!	12.51828631	#VALUE!	#VALUE!	9.437229437	#VALUE!	37.51633987	61.03448276	106.824147	184.3529412	283.935743	408.3333333	548.3870968	693.4210526	#VALUE!	18.4831744	#VALUE!	#VALUE!	#VALUE!
CC02_10-68	1832	29	100.5458515	0.147138965	7.50261233	7.175182482	19.05766526	47.18614719	22.75862069	111.4379085	180.3448276	297.9002625	492	724.497992	1025.833333	1363.709677	1727.105263	11737.9191	15.49836395	757.3650448	0.286950432	2.777258468
CC02_10-48	3068	11	100.5215124	1.261580381	37.19958203	50.94890511	99.71870605	122.0779221	73.90804598	92.15686275	101.7241379	137.5328084	206.4705882	338.5542169	526.6666667	822.5806452	1247.368421	988.734796	13.53527436	73.04874434	0.689972415	1.429041969
CC02_10-10	1853	21	100.4856989	0.122615804	17.99373041	5.182481752	12.51758087	30.73593074	22.4137931	38.5620915	47.5862069	78.74015748	124.3529412	203.2128514	318.3333333	467.3387097	613.6842105	5004.935673	15.91418376	314.4952796	0.646881177	8.386216154
CC02_10-128	1946	35	100.4110997	0.307901907	13.4691745	12.40875912	26.16033755	42.85714286	25.97701149	54.5751634	84.82758621	144.3569554	233.5294118	365.4618474	551.3888889	725.8064516	930.7894737	3023.006521	17.05518437	177.2485395	0.533231994	2.288377213
CC02_10-138	1758	17	100.3981797	0.953678474	44.54545455	44.59854015	101.6877637	185.2813853	113.4482759	140.5228758	143.6206897	185.8267717	272.2352941	419.2771084	665	951.2096774	1260.526316	1321.75188	8.970257038	147.3482726	0.696419841	2.277355369
CC02_10-210	1756	27	100.3416856	#VALUE!	15.29780564	10.13868613	26.77918425	55.32467532	21.83908046	107.8431373	159.3103448	264.8293963	414.4705882	587.9518072	831.9444444	1056.048387	1284.210526	#VALUE!	11.90813397	#VALUE!	0.267688585	3.985319325
CC02_10-137	1766	31	100.3397508	#VALUE!	28.38035528	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	95.01312336	180.2352941	288.7550201	446.1111111	649.1935484	868.4210526	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-56	2523	16	100.3170828	2.370572207	57.78474399	45.03649635	88.32630098	133.7662338	72.06896552	129.7385621	173.6206897	250.3937008	383.6470588	597.188755	853.8888889	1140.725806	1415.789474	597.2353297	10.91263423	54.72879573	0.547003065	2.516367357
CC02_10-43	2432	27	100.2878289	0.509536785	57.36677116	23.43065693	56.68073136	100.4329004	57.81609195	109.8039216	123.7931034	183.4645669	282	459.437751	711.9444444	990.3225806	1378.947368	2706.276386	12.55827068	215.4975359	0.550009189	5.922798007
CC02_10-189	1852	23	100.2699784	#VALUE!	9.34169279	#VALUE!	#VALUE!	48.22510823	28.85057471	126.4705882	169.3103448	223.8845144	325.1764706	422.4899598	551.3888889	687.0967742	833.6842105	#VALUE!	6.591921665	#VALUE!	0.330295197	#VALUE!

CC02_10-253	1915	26	100.2088773	#VALUE!	9.017763845	#VALUE!	#VALUE!	#VALUE!	#VALUE!	52.2875817	91.03448276	143.832021	241.1764706	348.9959839	494.4444444	633.8709677	807.8947368	#VALUE!	15.45098684	#VALUE!	#VALUE!	#VALUE!
CC02_10-216	1716	48	100.1748252	0.269754768	22.59143156	10.2919708	24.3392686	56.4092641	34.8258621	97.3862092	128.1034483	193.175853	282.4705882	392.7710843	540.8333333	700.4032258	905.2631579	3355.874535	9.295655245	361.0153826	0.452916436	5.189471883
CC02_10-74	1791	28	100.1675042	0.196185286	7.021943574	10.1459854	22.5051617	53.5907359	27.4726437	81.0475163	122.2413793	220.2099738	376.9411765	558.6345382	853.3333333	1122.177419	1399.210526	7132.086988	17.26445246	413.1082062	0.408073441	1.535038424
CC02_10-167	2497	17	100.1601922	#VALUE!	10.99268548	#VALUE!	#VALUE!	#VALUE!	#VALUE!	34.67320261	58.79310345	107.3490814	178.5882353	275.1004016	415.8333333	545.1612903	711.3157895	#VALUE!	20.51485689	#VALUE!	#VALUE!	#VALUE!
CC02_10-110	1778	30	100.056243	0.727520436	16.54127482	40.4379562	89.7327075	127.2727273	60.11494253	107.1895425	126.7241379	188.7139108	296.3529412	422.4899598	609.4444444	799.1935484	1039.210526	1428.427952	9.695073813	147.3354385	0.512789905	0.907698588
CC02_10-191	1761	21	100	2.043509673	46.38453501	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	269.5538058	421.1764706	626.1044177	908.6111111	1196.370968	1547.368421	757.1789474	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-126	2754	21	99.96368918	0.033514986	22.71682341	0.430656934	1.926863572	11.94805195	8.712643678	41.07843137	69.13793103	124.1469816	213.1764706	351.8072289	531.3888889	778.2258065	1129.210526	33692.70432	27.48913453	1225.673521	0.328614803	236.0128664
CC02_10-61	2068	34	99.956441	#VALUE!	#VALUE!	#VALUE!	#VALUE!	19.48051948	#VALUE!	81.11111111	135.862069	239.1076115	406.4705882	583.1325301	821.6666667	1063.709677	1341.578947	#VALUE!	16.54001442	#VALUE!	#VALUE!	#VALUE!
CC02_10-145	1744	19	99.94266055	0.523160763	19.43573668	26.27737226	62.02531646	125.974026	70.11494253	127.4509804	159.6551724	243.5695538	370.5882353	545.3815261	756.6666667	989.1129032	1227.631579	2346.566612	9.632186235	243.6172386	0.553338785	1.745846787
CC02_10-18	1740	27	99.94252874	0.267029973	24.61859979	17.44525547	39.66244726	73.59307359	40.34482759	98.03921569	127.5862069	213.3858268	320.5882353	501.2048193	726.6666667	1002.822581	1270.526316	4757.991407	12.95936842	367.1468587	0.470130973	3.208397641
CC02_10-195	2425	22	99.87628866	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	461.8473896	#VALUE!	897.1774194	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-109	1801	21	99.77790117	#VALUE!	17.53396029	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	140.4199475	280	479.5180723	806.1111111	1208.467742	1771.052632	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-41	1727	28	99.76838448	1.076294278	25.28735632	49.34306569	104.2194093	155.8441558	81.03448276	142.8104575	190.862069	291.6010499	444.7058824	659.0361446	886.1111111	1142.33871	1452.631579	1349.660227	10.17174515	132.6871846	0.542663526	1.082429894
CC02_10-127	1829	31	99.72662657	0.850133624	13.08254963	9.03649635	20.71729958	40.90909091	21.03448276	74.18300654	118.6206897	205.511811	339.2941176	518.0722892	728.6111111	954.0322581	1209.736842	1422.991734	16.3074658	87.2601391	0.365524362	3.319138555
CC02_10-142	2161	27	99.72235076	0.119891008	6.217345873	5.416058394	12.2081572	23.29004329	13.56321839	33.85620915	47.75862069	81.62729659	140.3529412	230.1204819	341.9444444	515.7258065	760.5263158	6343.480861	22.46342207	282.3915627	0.474684439	2.587548365
CC02_10-252	1752	24	99.65753425	0.547683924	29.36259143	23.35766423	50.6329139	77.92207792	36.55172414	102.2875817	137.4137931	241.2073491	380	582.3293173	836.1111111	1129.032258	1455.263158	2657.122283	14.22717336	186.763893	0.405657768	2.725012256

CC02_10-130	2552	14	99.52978056	0.885558583	28.21316614	35.10948905	69.33895921	86.14718615	44.48275862	83.66013072	106.3793103	160.3674541	262.5882353	386.746988	580.8333333	756.4516129	994.2105263	1122.693117	11.8839227	94.47159377	0.5239220399	1.5870011693
CC02_10-239	1775	29	99.49295775	1.196185286	29.27899687	60	126.3009845	155.8441558	86.20689655	138.2352941	157.4137931	226.2467192	332.1176471	476.3052209	663.6111111	880.2419355	1115.789474	932.7898334	8.071668533	115.5634463	0.5862083037	1.0272012814
CC02_10-95	1750	18	99.48571429	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	219.6850394	#VALUE!	566.6666667	#VALUE!	1120.967742	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-8	2523	17	99.28656361	0.215258856	27.75339603	13.72262774	33.61462729	67.96536797	43.56321839	61.4379085	72.5862069	95.27559055	137.0588235	207.2289157	315.2777778	452.4193548	564.7368421	2623.524317	9.191993281	285.4140812	0.6732093901	4.95415818
CC02_10-115	2018	19	99.25668979	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-124	1744	18	99.02522936	0.258855586	21.98537095	13.86861314	35.8649789	96.96969697	60.57471264	110.7843137	147.0689655	231.496063	372.4705882	594.7791165	854.4444444	1175.403226	1506.052632	5818.119114	13.59445738	427.9772962	0.5831038804	4.0995070033
CC02_10-256	1877	22	98.82791689	1.128065395	30.51201672	70.0729927	172.9957806	484.8484848	310.3448276	375.8169935	303.4482759	328.0839895	374.1176471	484.3373494	666.6666667	846.7741935	1021.052632	905.1360285	2.716887872	333.1517792	0.7211074104	1.0749091654
CC02_10-99	1879	20	98.72272485	0.572207084	26.10240334	26.86131387	59.63431786	106.2337662	60.57471264	101.6339869	117.5862069	148.5564304	210.2352941	301.6064257	426.1111111	581.0483871	736.8421053	1287.719298	7.249957692	177.6174914	0.5828019718	2.1573058147
CC02_10-90	1774	35	98.53438557	#VALUE!	13.05120167	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	75.34482759	125.4593176	209.2941176	321.686747	456.6666667	629.8387097	813.4210526	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-161	1766	29	98.52774632	#VALUE!	10.14629049	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	100.862069	182.152231	308.2352941	461.8473896	656.3888889	864.1129032	1126.315789	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-58	2518	15	98.45115171	0.732970027	41.90177638	39.41605839	77.35583685	#VALUE!	#VALUE!	#VALUE!	#VALUE!	200	316.4705882	487.9518072	744.4444444	1017.741935	1342.105263	1831.050675	#VALUE!	#VALUE!	#VALUE!	#VALUE!	2.086311434
CC02_10-243	1783	39	98.42961301	0.277929155	35.49634274	18.90510949	45.42897328	90.04329004	56.89655172	102.2875817	118.6206897	171.1286089	249.4117647	353.4136546	533.0555556	743.9516129	1078.947368	3882.094943	10.54817555	368.0347302	0.5916052824	4.5118086196
CC02_10-134	1844	20	98.42733189	0.215258856	7.607105538	10.80291971	25.8790436	58.87445887	25.63218391	92.48366013	158.6206897	276.1154856	465.8823529	725.3012048	1062.222222	1413.709677	1800	8362.025316	19.46289753	429.6392819	0.3386095857	1.6868084576
CC02_10-140	1742	33	98.27784156	0.305177112	11.47335423	15.10948905	34.59915612	77.92207792	41.95402299	145.0980392	208.4482759	330.7086614	515.2941176	710.4417671	944.4444444	1202.419355	1463.157895	4794.454887	10.08392603	475.4551821	0.3762035324	1.7388026908
CC02_10-63	1796	31	98.21826281	0.356948229	12.07941484	20.1459854	48.10126582	86.14718615	52.75862069	100.6535948	133.2758621	198.1627297	319.8823529	479.1164659	672.7777778	935.0806452	1159.736842	3249.033748	11.52206083	281.983735	0.5648065098	1.4316012138
CC02_10-157	1763	47	98.18491208	0.114441417	6.102403344	5.489051095	14.27566807	30.69264069	14.82758621	46.63398693	71.89655172	122.0472441	200	310.0401606	450.2777778	589.9193548	772.1052632	6746.729323	16.55670711	407.4922191	0.3835053312	2.8913026423

CC02_10-100	1770	23	97.90960452	0.028610354	9.310344828	1.664233577	3.938115331	21.64502165	5.264367816	81.47058824	146.7241379	263.5170604	450.9411765	672.2891566	971.6666667	1252.419355	1565.789474	54728.07018	19.21907657	2847.591036	0.102106128	13.23809938
CC02_10-165	1879	17	97.87120809	0.209809264	6.865203762	4.817518248	12.09563994	26.58008658	14.48275862	36.89542484	63.27586207	103.6745407	165.8823529	259.0361446	386.6666667	506.0483871	651.0526316	3103.069036	17.64589063	175.8522197	0.4563 25859	3.5779 60531
CC02_10-77	1778	40	97.86276715	#VALUE!	5.903866249	#VALUE!	#VALUE!	#VALUE!	#VALUE!	102.6143791	164.4827586	283.9895013	457.6470588	657.0281124	883.3333333	1076.612903	1371.052632	#VALUE!	13.36121354	#VALUE!	#VALUE!	#VALUE!
CC02_10-234	1774	31	97.68883878	0.307901907	16.17554859	15.40145985	35.8649789	71.86147186	35.97701149	88.88888889	131.3793103	213.9107612	342.8235294	518.0722892	731.9444444	966.1290323	1236.842105	4017.000466	13.91447368	288.6922321	0.4476 13446	2.4457 14858
CC02_10-62	1783	26	97.47616377	0.659400545	29.98955068	27.08029197	57.10267229	116.017316	65.74712644	195.751634	297.5862069	479.5275591	757.6470588	1118.072289	1544.444444	1968.145161	2415.789474	3663.614615	12.34109481	296.8630152	0.4217 68277	2.3351 76475
CC02_10-38	1782	40	97.36251403	0.784741144	16.907 00104	33.72262774	68.49507736	92.64069264	49.65517241	109.8039216	167.4137931	265.6167979	458.1176471	731.7269076	1063.888889	1445.16129	1889.473684	2407.766813	17.20770677	139.9237473	0.4905 55628	1.0183 17303
CC02_10-85	2344	21	97.35494881	#VALUE!	15.14106583	5.839416058	12.65822785	33.37662338	9.310344828	83.00653595	136.7241379	249.6062992	426.2352941	671.4859438	978.8888889	1277.016129	1610.526316	#VALUE!	19.40240365	#VALUE!	0.1599 94709	5.6207 01435
CC02_10-249	1823	51	97.09270433	0.479564033	5.517241379	#VALUE!	#VALUE!	#VALUE!	#VALUE!	65.35947712	108.4482759	190.2887139	315.0588235	457.0281124	642.5	843.1451613	1089.473684	2271.800239	16.66894737	136.2893642	#VALUE!	#VALUE!
CC02_10-158	1737	23	97.00633276	0.588555858	25.49634274	31.24087591	73.13642757	189.1774892	110.2298851	169.9346405	215.5172414	306.0367454	468.8235294	714.0562249	993.0555556	1298.790323	1634.210526	2776.644737	9.616700405	288.731542	0.6139 02322	1.9105 80002
CC02_10-141	1756	27	96.92482916	0.591280654	12.18390805	21.97080292	47.39803094	75.75757576	44.71264368	78.75816993	93.96551724	153.0183727	247.0588235	360.6425703	514.4444444	670.5645161	870	1471.382488	11.04647303	133.1993012	0.5787 45467	1.1963 4119
CC02_10-123	2581	13	96.78419217	1.904632153	52.10031348	77.59124088	152.0393812	196.5367965	100	174.8366013	214.3103448	316.5354331	478.3529412	698.7951807	989.7222222	1341.129032	1723.684211	904.9958587	9.858829316	91.79546878	0.5385 41536	1.3157 42899
CC02_10-199	2043	23	96.67156143	29.42779292	41.17032393	30.1459854	36.99015471	45.02164502	15.28735632	80.06535948	121.7241379	206.2992126	343.4117647	502.0080321	694.7222222	903.6290323	1102.368421	37.46011209	13.76835661	2.72073953	0.2444 27571	1.6757 58623
CC02_10-12	1754	22	96.46522235	0.27520436	20.17763845	15.54744526	34.45850914	69.26406926	41.6091954	78.43137255	102.7586207	185.8267717	322	490.3614458	748.3333333	1048.790323	1323.157895	4807.91037	16.87026316	284.9932052	0.5634 45898	2.8763 9647
CC02_10-23	1884	17	95.48832272	3.04359673	44.82758621	131.3868613	268.6357243	416.8831169	251.7241379	315.3594771	313.7931034	384.5144357	534.1176471	729.7188755	1001.944444	1320.967742	1610.526316	529.1523347	5.106953913	103.6140807	0.6875 43008	0.6975 98029
CC02_10-82	1788	31	95.02237136	3.297002725	80.35527691	154.0145985	300.9845288	401.2987013	242.5287356	309.4771242	347.7586207	422.5721785	603.5294118	908.4337349	1341.666667	1850.806452	2450	743.0991736	7.916578669	93.86620213	0.6824 33833	1.0196 11672
CC02_10-17	1826	31	94.96166484	1.934604905	14.53500522	#VALUE!	#VALUE!	#VALUE!	#VALUE!	74.18300654	92.4137931	143.5695538	228.2352941	328.5140562	472.5	623.3870968	773.9473684	400.0544848	10.4329469	38.3450056	#VALUE!	#VALUE!

CC02_10-200	1758	24	94.76678043	1.204359673	17.57575758	16.86131387	39.94374121	73.16017316	44.94252874	86.2745098	127.0689655	207.3490814	333.6470588	495.9839357	719.1666667	940.3225806	1230	1021.289593	14.25681818	71.63516991	0.563773552	2.469334747
CC02_10-66	1829	32	94.42318207	#VALUE!	11.69278997	16.56934307	39.66244726	83.11688312	44.13793103	75.81699346	93.62068966	138.5826772	216.8235294	324.0963855	479.4444444	643.1451613	797.6315789	#VALUE!	10.52048548	#VALUE!	0.555425086	1.689223351
CC02_10-21	1761	24	94.37819421	0.820163488	15.25600836	36.27737226	78.90295359	125.974026	75.05747126	185.9477124	259.3103448	396.8503937	605.8823529	821.2851406	1116.666667	1386.290323	1721.052632	2098.426298	9.255573027	226.7203005	0.481258354	0.914665999
CC02_10-78	2077	19	94.31872894	0.509536785	27.21003135	29.6350365	68.63572433	191.3419913	108.045977	261.4379085	336.3793103	517.0603675	823.5294118	1210.843373	1633.333333	2052.419355	2486.842105	4880.593864	9.512171053	513.0893712	0.477256067	2.126514413
CC02_10-39	2000	18	94.25	3.869209809	77.32497388	176.6423358	320.6751055	363.6363636	214.9425287	248.3660131	246.5517241	301.8372703	411.7647059	599.1967871	858.3333333	1145.967742	1450	374.7535211	5.838157895	64.19037098	0.702423837	0.794685759
CC02_10-54	1907	18	94.12690089	5.449591281	28.73563218	56.20437956	116.7369902	#VALUE!	#VALUE!	141.503268	160.5172414	218.6351706	310.5882353	464.2570281	610.8333333	794.3548387	996.8421053	182.9205263	7.044657834	25.96584967	#VALUE!	1.061912986
CC02_10-44	1893	20	93.76650819	0.629427793	13.719582	34.08759124	81.1533052	166.6666667	99.31034483	178.7581699	262.0689655	444.8818898	755.2941176	1216.465863	1775	2411.290323	3065.789474	4870.756437	17.1504859	284.0010752	0.575004078	0.958222521
CC02_10-159	2585	11	93.73307544	1.100817439	29.04911181	47.44525547	94.23347398	148.9177489	88.50574713	135.620915	161.2068966	224.1469816	347.1764706	506.8273092	741.1111111	982.6612903	1210.526316	1099.661282	8.925808497	123.2001877	0.62209997	1.216052937
CC02_10-103	1882	27	93.41126461	0.877384196	23.19749216	40.87591241	97.0464135	216.4502165	118.3908046	274.5098039	296.5517241	375.328084	488.2352941	608.4337349	750	903.2258065	1055.263158	1202.737823	3.844172932	312.8729753	0.482282873	1.347366071
CC02_10-111	2532	18	93.00947867	1.297002725	59.77011494	68.61313869	163.1504923	323.3766234	210.3448276	266.3398693	253.4482759	262.992126	372.9411765	571.8875502	961.1111111	1500.806452	2284.210526	1761.145511	8.576299645	205.3502774	0.713376106	2.071371071
CC02_10-35	1817	26	92.95542102	#VALUE!	#VALUE!	#VALUE!	212.3769339	402.5974026	#VALUE!	277.7777778	#VALUE!	246.7191601	#VALUE!	378.7148594	#VALUE!	839.9193548	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-80	1821	26	92.6963207	0.885558583	11.92267503	#VALUE!	#VALUE!	#VALUE!	#VALUE!	85.29411765	133.4482759	238.8451444	401.5294118	648.1927711	936.6666667	1275.403226	1652.631579	1866.202429	19.37568058	96.31674208	#VALUE!	#VALUE!
CC02_10-215	2465	23	92.12981744	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	342.9718876	#VALUE!	754.0322581	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
CC02_10-20	1855	31	91.96765499	#VALUE!	9.456635319	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	117.3202614	142.0689655	209.4488189	328.1176471	482.3293173	684.4444444	910.0806452	1195	#VALUE!	10.18579387	#VALUE!	#VALUE!	#VALUE!
CC02_10-107	2477	25	91.80460234	0.449591281	37.87878788	20.87591241	51.61744023	97.4025974	56.09195402	85.94771242	93.27586207	104.7244094	132.7058824	175.1004016	247.5	331.8548387	408.1578947	907.8421053	4.748909346	191.1685482	0.611855568	4.486437321
CC02_10-14	1865	24	91.63538874	0.662125341	19.55067921	33.35766423	81.2935218	161.038961	94.25287356	153.9215686	180.5172414	250.1312336	379.7647059	530.9236948	754.4444444	1022.983871	1260.526316	1903.757851	8.189406638	232.4659082	0.598505938	1.428330867

CC02_10-178	1885	28	91.61803714	0.896457766	28.00417973	44.89051095	108.1575246	248.0519481	151.7241379	218.9542484	237.0689655	296.5879265	424.7058824	582.3293173	805.8333333	1038.306452	1247.368421	1391.441369	5.6969 36371	244.2437968	0.6497 73554	1.5030 3986
CC02_10-114	1893	24	91.54780771	0.809264305	15.25600836	44.67153285	105.625879	196.5367965	102.4137931	203.9215686	257.0689655	380.0524934	577.6470588	845.7831325	1211.666667	1537.903226	1926.315789	2380.329612	9.4463 56275	251.9838912	0.5114 82851	0.8075 1304
CC02_10-176	1931	20	91.09269808	1.852861035	38.1400209	74.45255474	160.3375527	264.0692641	144.8275862	262.745098	291.3793103	404.7244094	565.8823529	804.4176707	1091.666667	1383.064516	1673.684211	903.2972136	6.3699 92145	141.805075	0.5498 23986	1.1032 06896
CC02_10-139	1785	27	90.6442577	2.997275204	27.27272727	25.32846715	54.57102672	95.23809524	62.18390805	116.0130719	158.9655172	248.0314961	398.9411765	593.9759036	835.8333333	1105.645161	1394.736842	465.3349282	12.022 2387	38.70617944	0.5887 20137	2.3199 19307
CC02_10-186	1871	17	90.59326563	0.918256131	23.40647858	41.09489051	99.01547117	231.1688312	147.1264368	210.7843137	246.8965517	350.3937008	544.7058824	792.3694779	1102.777778	1474.193548	1847.368421	2011.822583	8.7642 59486	229.548496	0.6658 01063	1.3723 45566
CC02_10-169	1861	27	90.27404621	4.414168937	19.89550679	26.05839416	58.79043601	98.7012987	#VALUE!	103.5947712	149.4827586	268.7664042	451.7647059	730.1204819	1097.222222	1499.596774	1936.842105	438.7784276	18.696 33073	23.468692	#VALUE!	1.7225 28394
CC02_10-198	1795	24	90.13927577	2.100817439	62.90491118	113.8686131	299.5780591	701.2987013	462.0689655	552.2875817	475.862069	477.6902887	514.1176471	637.3493976	880.5555556	1120.967742	1297.368421	617.5540993	2.3490 81283	262.8917542	0.7371 95312	1.4534 04478
CC02_10-84	1875	20	90.02666667	2.288828338	27.5862069	47.22627737	116.7369902	238.5281385	130.9195402	277.4509804	336.3793103	478.2152231	690.5882353	986.746988	1277.777778	1587.096774	1934.210526	845.0657895	6.9713 59494	121.2196545	0.5074 60614	1.4438 86493
CC01_13-26	2571	30	102.6837806	0.079291553	11.96447231	2.620437956	9.043600563	44.41558442	9.195402299	160.7843137	250.6896552	392.9133858	611.7647059	832.5301205	1069.444444	1304.435484	1549.210526	19538.15337	9.6353 33761	2027.760933	0.0896 23849	15.757 49428
CC01_13-21	1959	34	102.5523226	0.0626703	1.065830721	3.722627737	8.298171589	22.51082251	11.03448276	33.33333333	79.13793103	151.7060367	235.7647059	318.4738956	434.4444444	520.5645161	611.0526316	9750.2746	18.331 57895	531.884058	0.3951 88452	0.6382 21495
CC01_13-97	2009	35	101.3937282	0.610354223	27.17868339	8.459854015	18.35443038	50.43290043	44.02298851	94.11764706	105.6896552	133.3333333	164.2352941	203.6144578	267.5	334.6774194	403.4210526	660.9621711	4.2863 48684	154.2016807	0.6091 0165	6.9701 73486
CC01_13-8	1765	38	101.1331445	0.041144414	8.965517241	2.138686131	5.513361463	18.3982684	5.563218391	72.64705882	136.0344828	259.8425197	449.7647059	685.9437751	1002.222222	1322.983871	1651.578947	40141.02475	22.734 28511	1765.660304	0.1222 07664	10.806 81483
CC01_13-13	1977	34	100.657562	0.122615804	1.849529781	2.335766423	7.172995781	33.33333333	8.390804598	124.5098039	230.6896552	400.2624672	600.1176471	835.3413655	1188.055556	1565.322581	1944.736842	15860.40936	15.619 14629	1015.446623	0.1063 18269	2.4316 61292
CC01_13-50	2821	41	100.6380716	#VALUE!	10.37617555	0.286861314	1.29395218	8.095238095	5.689655172	39.64052288	68.79310345	128.0839895	221.4117647	340.1606426	482.2222222	670.9677419	874.2105263	#VALUE!	22.053 45598	#VALUE!	0.2383 81249	163.15 92014
CC01_13-55	1898	41	100.3161222	0.031607629	5.339602926	0.598540146	2.559774965	12.98701299	3	52.09150327	84.48275862	144.3569554	230.7058824	331.3253012	461.3888889	598.7903226	745.2631579	23578.58439	14.306 80843	1648.067388	0.0921 96324	38.152 6035
CC01_13-4	1769	42	100.2826456	#VALUE!	8.537095089	0.280291971	1.209563994	9.004329004	2.747126437	41.92810458	77.06896552	143.5695538	251.7647059	390.3614458	577.5	765.3225806	971.5789474	#VALUE!	23.172 49867	#VALUE!	0.1078 73363	131.43 70051

CC01_13-25	1771	39	100.2823264	237.8746594	256.0083595	242.3357664	280.8720113	325.5411255	155.1724138	261.4379085	253.7931034	322.0472441	451.4117647	636.1445783	905.2777778	1161.290323	1442.105263	6.062458552	5.516052632	1.099057416	0.528715354	1.224412001
CC01_13-18	1873	38	100.2669514	0.188010899	14.54545455	11.45985401	31.7862166	100	52.29885057	164.0522876	225	338.32021	520.3529412	726.9076305	987.7777778	1231.048387	1489.736842	7923.672769	9.080866601	872.5679644	0.396124957	3.520529318
CC01_13-107	1746	39	100	0.076566757	23.00940439	3.875912409	10.4926442	37.5346753	26.32183908	99.11764706	154.8275862	265.0918635	446.1176471	683.5341365	969.1666667	1334.677419	1781.578947	23268.30867	17.97438701	1294.525853	0.385244303	16.07040034
CC01_13-103	1782	34	99.94388328	0.307901907	22.12121212	17.73722628	46.9760901	104.7619048	61.37931034	154.5751634	237.2413793	394.7506562	669.6470588	1015.261044	1438.888889	1835.887097	2286.842105	7427.177457	14.79436965	502.0273006	0.473355473	3.303044411
CC01_13-59	1796	43	99.88864143	0.028337875	9.926854754	1.722627737	4.106891702	16.36363636	7.287356322	49.01960784	86.03448276	156.167979	265.8823529	419.6787149	597.7777778	811.6935484	1010.526316	35659.91903	20.61473684	1729.826546	0.222912045	13.73858631
CC01_13-44	1794	42	99.83277592	0.100817439	9.47753396	0.854014599	2.405063291	14.1991342	3.712643678	57.18954248	103.4482759	177.6902887	315.2941176	469.0763052	656.9444444	877.8225806	1131.578947	11224.03983	19.78646617	567.2584349	0.104012117	31.25296818
CC01_13-9	1918	35	99.79144943	0.166212534	7.450365726	7.846715328	20.5063291	46.66666667	26.20689655	69.86928105	93.27586207	149.0813648	236.8235294	351.8072289	503.8888889	677.8225806	846.5789474	5093.352028	12.11661169	420.3610843	0.449765022	2.481359681
CC01_13-117	1867	40	99.78575254	#VALUE!	6.551724138	0.518248175	1.504922644	8.0952380 95	2.24137931	40.45751634	93.44827586	196.8503937	367.0588235	624.8995984	935.8333333	1325.806452	1731.578947	#VALUE!	42.79993198	#VALUE!	0.092327586	36.71083112
CC01_13-41	1775	43	99.71830986	0.089918256	17.36677116	6.496350365	17.4022504	52.38095238	31.37931034	68.62745098	104.3103448	176.6404199	306.7058824	467.8714859	709.7222222	962.0967742	1263.421053	14050.77352	18.40984962	763.2204397	0.518630268	7.176823853
CC01_13-51	1844	44	99.62039046	0.474114441	28.00417973	7.737226277	19.83122363	53.24675325	31.72413793	95.4248366	121.7241379	179.5275591	267.8823529	382.3293173	534.4444444	709.6774194	902.6315789	1903.826376	9.459084355	201.2696266	0.426767992	9.276876435
CC01_13-124	1778	38	99.55005624	1.008174387	27.8892372	2.627737226	4.500703235	18.61471861	9.770114943	43.79084967	79.13793103	148.2939633	277.5294118	451.0040161	709.4444444	1047.580645	1368.421053	1357.325747	31.24901807	43.43578873	0.313116769	18.17829498
CC01_13-73	2127	39	99.48283968	0.035694823	7.084639498	2.262773723	5.316455696	20.17316017	12.87356322	48.46405229	88.96551724	169.0288714	300.5882353	469.0763052	680.2777778	897.1774194	1150	32217.55725	23.72892785	1357.733373	0.375119057	7.356270693
CC01_13-22	1987	37	99.44640161	0.580381471	10.08359457	28.10218978	79.04360056	205.1948052	122.6436782	193.1372549	255.3448276	346.9816273	502.3529412	717.2690763	1047.222222	1356.451613	1681.578947	2897.368421	8.706652418	332.7763969	0.615786126	1.009256989
CC01_13-72	2207	35	99.09379248	0.035149864	20.553814	2.065693431	7.341772152	25.10822511	11.37931034	70.26143791	113.9655172	197.3753281	341.4117647	524.0963855	786.6666667	1056.451613	1397.368421	39754.58996	19.88812729	1998.910675	0.238635851	35.36401676
CC01_13-122	1777	41	98.8745076	0.125340599	22.65412748	6.277372263	18.28410689	67.0995671	41.26436782	95.75163399	137.4137931	224.671916	370.9411765	554.2168675	794.7222222	1054.032258	1289.473684	10287.75744	13.46685827	763.9315146	0.506773884	10.51151522
CC01_13-5	1777	37	98.76195836	0.166212534	5.433646813	10.72992701	30.52039381	80.08658009	44.48275862	115.6862745	190.1724138	350.656168	610.5882353	966.6666667	1447.222222	1906.451613	2371.052632	14265.1855	20.4955397	696.0141434	0.454432344	1.440416222

CC01_13-84	1840	39	98.5326087	0.047683924	6.656217346	3.941605839	11.67369902	38.52813853	25.28735632	68.62745098	113.7931034	196.3254593	318.5882353	472.6907631	683.8888889	882.6612903	1126.315789	23620.45113	16.41203008	1439.215686	0.471974564	5.001377096
CC01_13-20	2065	38	98.11138015	0.316076294	7.533960293	17.25547445	46.13220816	133.7662338	77.24137931	164.0522876	218.7931034	333.3333333	518.1176471	749.7991968	1068.055556	1351.209677	1660.789474	5254.394283	10.12353743	519.0274961	0.51871441	1.167276547
CC01_13-60	1846	37	98.04983749	0.015803815	4.096133751	2.408759124	7.032348805	28.0952381	11.49425287	94.77124183	163.2758621	280.3149606	441.1764706	642.5702811	880.5555556	1161.290323	1431.578947	90584.39201	15.10562613	5996.732026	0.187101525	4.964644029
CC01_13-75	1855	55	97.78975741	0.031880109	5.412748171	0.547445255	2.137834037	9.913419913	4.816091954	44.28104575	75	137.007874	243.5294118	371.0843373	538.3333333	715.3225806	946.3157895	29683.58075	21.37067392	1388.986649	0.177733719	38.61094372
CC01_13-39	2493	36	97.31247493	0.128065395	8.537095089	2.02919708	5.316455696	15.32467532	9.540229885	23.69281046	32.06896552	51.44356955	85.41176471	136.9477912	211.6666667	325	458.6842105	3581.640538	19.35963702	185.0055625	0.489023303	11.02259525
CC01_13-2	2568	31	97.07943925	0.80653951	24.68129572	30.87591241	85.37271449	218.1818182	128.045977	215.6862745	232.5862069	291.3385827	375.0588235	503.6144578	706.9444444	873.3870968	1031.578947	1279.018492	4.78277512	267.4218336	0.590253025	2.210280771
CC01_13-127	1824	37	96.76535088	0.220708447	12.56008359	11.16788321	32.20815752	112.1212121	59.88505747	213.3986928	323.6206897	527.2965879	870.5882353	1254.216867	1686.111111	2254.435484	2513.157895	11386.77713	11.77681954	966.8804971	0.367934842	3.243520777
CC01_13-115	1786	41	96.69652856	0.111716621	12.28840125	3.817518248	10.54852321	39.95670996	13.79310345	110.7843137	179.137931	309.7112861	504.9411765	736.1445783	1000.555556	1275.403226	1607.894737	14392.61874	14.5137401	991.6547107	0.183003977	8.894566843
CC01_13-91	1806	38	96.67774086	0.768392371	27.37722048	39.34306569	107.8762307	261.038961	156.3218391	230.7189542	255.1724138	320.7349081	440	642.9718876	888.8888889	1130.645161	1360.526316	1770.614035	5.896898762	300.2619015	0.635767455	1.908001539
CC01_13-7	1758	52	96.24573379	0.31880109	27.16823406	19.34306569	50.63291139	129.004329	82.64367816	131.0457516	161.8965517	228.3464567	360.7058824	530.5220884	769.1666667	1033.870968	1255.263158	3937.449393	9.578816118	411.0580415	0.635598174	3.676577726
CC01_13-106	1760	45	95.96590909	0.119891008	15.04702194	8.065693431	20.25316456	54.11255411	30.34482759	71.24183007	109.8275862	186.0892388	314.1176471	483.5341365	725.8333333	967.7419355	1234.210526	10294.4378	17.3242395	594.221628	0.484144656	4.684465275
CC01_13-23	1913	35	95.76581286	0.858310627	17.48171369	46.93430657	129.9578059	312.1212121	189.6551724	289.869281	329.3103448	464.5669291	650.5882353	983.1325301	1402.777778	1789.919355	2286.842105	2664.352548	7.889218537	337.7207179	0.63009358	1.031348787
CC01_13-66	1853	49	95.19697787	2.72479564	10.65830721	11.45985401	24.05063291	72.29437229	42.52873563	116.3398693	155.1724138	228.3464567	316.4705882	437.3493976	582.2222222	754.0322581	915.7894737	336.0947368	7.871673566	42.69673203	0.450912149	1.951895546
CC01_13-85	2531	36	95.02173054	0.247956403	21.02403344	4.839416058	15.47116737	45.10822511	28.50574713	58.16993464	76.55172414	113.1233596	176	278.7148594	411.6666667	572.1774194	736.3157895	2969.537305	12.65801301	234.5974287	0.552018882	13.88843148
CC01_13-77	1813	38	94.5394374	0.050408719	11.49425287	1.992700073	5.766526602	20.69264069	7.413793103	55.39215686	91.20689655	172.9658793	304.7058824	475.1004016	673.0555556	913.3064516	1176.315789	23335.56188	21.23614346	1098.860625	0.194882377	16.69209484
CC01_13-112	1854	36	94.49838188	0.702997275	14.51410658	19.41605839	52.46132208	146.3203463	84.94252874	148.0392157	206.2068966	308.9238845	483.5294118	727.7108434	1027.777778	1339.112903	1613.157895	2294.685843	10.89682816	210.5829153	0.577134496	2.019795499

CC01_13-101	1867	39	94.0546331	4.795640327	26.73981191	20.4379562	47.53867792	98.7012987	55.40229885	93.79084967	117.2413793	175.5905512	290.5882353	438.1526104	663.0555556	886.2903226	1113.157895	232.1187201	11.86851275	19.55752377	0.575631778	3.043200168
CC01_13-10	1844	38	93.87201735	0.517711172	13.79310345	29.8540146	74.26160338	156.7099567	92.64367816	153.2679739	198.9655172	290.8136483	444.7058824	653.815261	955	1277.016129	1581.578947	3054.944598	10.31904388	296.0491916	0.597743704	1.149266727
CC01_13-27	1790	46	93.46368715	1.10626703	11.20167189	17.0802917	43.88185654	108.2251082	63.10344828	169.9346405	226.8965517	330.7086614	487.4117647	665.8634538	887.5	1084.677419	1279.473684	1156.568577	7.529210526	153.6108696	0.453720918	1.684912144
CC01_13-99	1831	35	93.44620426	0.61852861	15.87251829	29.0510489	87.48241913	272.2943723	164.0229885	308.8235294	382.7586207	552.4934383	825.8823529	1160.240964	1583.333333	2024.193548	2413.157895	3901.449107	7.814035088	499.2873802	0.564508469	1.645286788
CC01_13-116	1784	36	93.2735426	0.634877384	62.27795193	32.4087512	89.59212377	212.987013	141.4942529	254.5751634	343.1034483	555.6430446	909.4117647	1395.983936	2002.777778	2697.580645	3513.157895	5533.600632	13.80008108	400.9831973	0.605242511	5.312260305
CC01_13-37	1818	37	93.01430143	14.16893733	51.20167189	48.6863139	111.2517581	316.017316	189.4252874	330.0653595	404.137931	577.6902887	888.2352941	1292.771084	1838.888889	2379.032258	2944.736842	207.8304656	8.921677957	23.29499749	0.586380953	2.403147853
CC01_13-17	1796	38	92.26057906	13.35149864	33.96029258	40.1459854	81.43459916	247.1861472	142.5287356	425.4901961	572.4137931	836.7454068	1189.411765	1610.843373	2061.111111	2508.064516	2913.157895	218.1895811	6.846592287	31.86834734	0.423766161	1.715916465
CC01_13-43	1816	41	92.23568282	0.814713896	49.04911181	30.7292701	85.37271449	247.1861472	152.8735632	330.7189542	414.6551724	600.5249344	876.4705882	1226.907631	1666.666667	2086.693548	2497.368421	3065.331808	7.551331392	405.9326295	0.529061131	4.434321531
CC01_13-30	2327	34	91.27632144	0.948228883	31.98537095	48.4675328	130.8016878	329.004329	197.7011494	283.0065359	309.6551724	391.0761155	528.2352941	736.1445783	1058.333333	1332.66129	1594.736842	1681.805808	5.634982375	298.4580422	0.646070718	1.781023768
CC01_13-119	1821	40	91.26853377	1.528610354	27.27272727	31.8978102	85.51336146	210.3896104	134.4827586	194.7712418	214.4827586	305.511811	447.0588235	675.502008	925	1229.83871	1507.894737	986.4480721	7.741875662	127.4171939	0.66384873	2.292113825
CC01_13-86	1886	55	91.03923648	0.061580381	8.254963427	1.817518248	5.597749648	20.56277056	9.287356322	66.0130719	113.7931034	203.1496063	352.9411765	512.8514056	722.2222222	931.4516129	1173.684211	19059.38519	17.77957269	1071.982185	0.214548448	13.98849735
CC01_13-61	1813	39	90.89906233	0.929155313	39.446186	40.3649635	104.0787623	236.3636364	147.0114943	237.5816993	283.6206897	395.2755906	582.3529412	861.8473896	1216.666667	1579.032258	1971.052632	2121.338169	8.296315066	255.696433	0.620373208	2.51975322
CC01_13-33	1784	48	90.8632287	0.42506812	13.58411703	23.8686161314	62.30661041	170.5627706	106.8965517	222.875817	272.4137931	372.1784777	498.8235294	641.7670683	861.1111111	1072.580645	1239.473684	2915.941296	5.561274888	524.3296464	0.543396378	1.485631739
CC01_13-98	1868	51	90.3640257	62.39782016	58.41170324	44.3795624	57.10267229	100	56.7816092	120.9150327	163.6206897	265.0918635	423.1764706	608.8353414	840.5555556	1129.032258	1359.210526	21.78298092	11.24103841	1.937808602	0.514058355	1.693519 8
CC01_13-36	2102	37	90.3425309 2	0.441416894	25.63218391	27.1532846 7	70.604782	183.982684	113.1034483	162.0915033	175.3448276	234.3832021	330.5882353	476.3052209	700	971.7741935	1307.894737	2962.946719	8.068866723	367.2072944	0.653637009	2.454567 51
CC01_13-65	1801	37	90.2276513	0.621253406	28.49529781	34.5985401 5	92.68635724	249.3506494	160.4597701	203.9215686	210.1724138	269.5538058	348.2352941	498.7951807	772.5	1025.806452	1233.421053	1985.375115	6.048507085	328.2421741	0.708006199	2.206345214

CC01_13-47	1903	39	90.1208618	1.117166213	16.71891327	31.02189781	77.77777778	198.2683983	122.9885057	223.5294118	263.1034483	364.3044619	535.2941176	765.8634538	1047.222222	1271.370968	1528.947368	1368.594352	6.840027701	200.0860832	0.583163321	1.351222442
CC01_13-58	1889	37	90.1005823 2	0.397820163	9.320794148	16.86131387	45.00703235	126.8398268	82.75862069	129.4117647	162.5862069	234.6456693	372.9411765	553.4136546	825	1143.145161	1478.947368	3717.627974	11.42822967	325.3021757	0.64591693	1.475538239
CC04_15-66	1759	40	103.1267766	0.307901907	24.93207941	3.153284672	6.104078762	23.03030303	20	65.29411765	106.7241379	183.2020997	309.2941176	494.7791165	744.7222222	1024.193548	1381.842105	4487.929669	21.16334756	212.0614263	0.452875883	15.30566738
CC04_15-58	1746	37	102.8064147	0.036239782	9.780564263	1.124087591	3.5302391	20.12987013	6.75862069	87.58169935	157.7586207	269.2913386	431.8823529	642.1686747	886.1111111	1154.83871	1426.315789	39357.73645	16.28554595	2416.728095	0.125494795	27.32547527
CC04_15-115	1825	35	102.4657534	#VALUE!	5.256008359	0.394160584	0.99859353	9.264069264	1.689655172	46.66666667	87.4137931	168.503937	296.5882353	468.2730924	653.6111111	899.1935484	1192.105263	#VALUE!	25.54511278	#VALUE!	0.060419558	33.7830153
CC04_15-112	1873	24	101.9754405	0.031335515	10.58516196	0.452554745	1.153305204	9.047619048	2.666666667	33.88888889	63.62068966	120.9973753	212.1176471	323.6947791	463.3333333	619.7580645	817.1052632	26076.31579	24.11130285	1081.497585	0.124214418	59.60730882
CC04_15-82	1740	44	101.6666667	0.029427793	6.812957158	0.554744526	1.744022504	10.25974026	3.655172414	38.79084967	70.86206897	130.9711286	227.8823529	348.5943775	503.3333333	684.2741935	889.4736842	30225.63353	22.92998714	1318.17054	0.149036838	38.61016807
CC04_15-63	2534	25	101.6179953	0.138964578	16.68756531	2.795620438	7.791842475	35.06493506	19.1954023	104.9019608	154.3103448	225.1968504	348.2352941	499.5983936	683.3333333	866.9354839	1089.473684	7839.93808	10.38563699	754.8827374	0.27428489	16.6370659
CC04_15-40	1877	30	101.5450186	0.283378747	7.701149425	1.335766423	4.120956399	18.83116883	5.931034483	63.39869281	111.2068966	182.6771654	295.2941176	432.5301205	606.3888889	751.6129032	944.7368421	3333.830972	14.90151926	223.7242333	0.144255003	17.78658305
CC04_15-44	1762	26	101.4188422	#VALUE!	9.237199582	0.459854015	1.856540084	12.16450216	3.770114943	49.64052288	91.72413793	168.503937	286.1176471	438.9558233	636.9444444	851.6129032	1092.368421	#VALUE!	22.00557846	#VALUE!	0.122000272	81.09698214
CC04_15-42	1765	35	101.3597734	0.217983651	8.495297806	0.394160584	0.92827004 2	6.45021645	1.724137931	29.54248366	60.17241379	111.2860892	200.4705882	314.0562249	483.3333333	634.6774194	830	3807.625	28.09513274	135.5261438	0.095804867	50.75824028
CC04_15-57	1870	20	101.3368984	0.059945504	11.69278997	1.109489051	2.222222222	13.67965368	4.425287356	50.16339869	86.03448276	146.9816273	239.7647059	368.2730924	537.2222222	731.4516129	923.6842105	15408.73206	18.41350934	836.8166964	0.138630194	21.10860793
CC04_15-89	1750	25	101.1485714	0.067847411	34.82758621	0.715328467	1.631504923	8.484848485	6.701149425	30.94771242	55.51724138	99.55380577	199.4117647	326.5060241	542.5	840.7258065	1265.789474	18656.41513	40.90090591	456.1369662	0.339878987	111.0454446
CC04_15-22	1766	21	101.0758777	#VALUE!	14.93207941	0.299270073	1.068917018	7.835497835	1.896551724	45.52287582	88.62068966	168.7664042	299.4117647	481.5261044	695.2777778	987.5	1246.842105	#VALUE!	27.38935278	#VALUE!	0.071087314	178.2123116
CC04_15-43	1750	25	100.9714286	#VALUE!	13.00940439	0.187591241	0.80168776 4	6.14718614 7	1.229885057	36.37254902	68.62068966	133.8582677	240.4705882	377.5100402	553.3333333	762.9032258	970.7894737	#VALUE!	26.69016882	#VALUE!	0.057850081	296.372263
CC04_15-25	1782	25	100.9539843	0.381471139	18.91327064	2.934306569	5.161744023	15.88744589	8.034482759	53.00653595	100.1724138	189.5013123	324.7058824	504.0160643	724.1666667	978.6290323	1247.368421	3269.887218	23.53235122	138.9528478	0.233241933	11.33840926

CC04_15-113	2528	26	100.7120253	0.2179 83651	36.2800418	3.96350365	9.029535865	37.53246753	25.74712644	105.5555556	157.2413793	254.0682415	398.4705882	581.124498	789.4444444	1064.516129	1374.473684	6305.398026	13.02132964	484.2361111	0.3598 78149	20.853 29472
CC04_15-3	1887	18	100.4769475	0.0201 63488	0.7596 65622	0.4890 51095	1.4486 63854	11.688 31169	0.3678 16092	64.705 88235	129.31 03448	235.17 06037	388.23 52941	555.02 00803	758.33 33333	951.61 29032	1202.6 31579	59644.0256	18.586 1244	3209.0 62003	0.0096 29425	4.6013 11403
CC04_15-84	1845	32	100.3794038	#VALUE!	9.7283 17659	0.9051 09489	2.7426 16034	17.445 88745	5.9195 4023	69.934 64052	114.13 7931	202.88 71391	343.52 94118	502.40 96386	694.44 44444	884.67 74194	1126.3 15789	#VALUE!	16.105 26316	#VALUE!	0.1354 88772	32.568 70705
CC04_15-2	1765	36	100.3399433	1.3623 9782	11.065 83072	1.7591 24088	3.0379 74684	18.787 87879	7.4252 87356	60.457 51634	104.13 7931	177.16 53543	293.76 47059	442.57 02811	624.44 44444	815.32 25806	1047.3 68421	768.76 84211	17.324 03983	44.375 81699	0.1873 99844	10.863 63641
CC04_15-75	1788	33	100.3355705	0.7765 66757	13.082 54963	6.2043 79562	9.0014 0647	24.329 00433	20.574 71264	65.359 47712	107.24 13793	177.16 53543	307.64 70588	477.10 84337	665	887.09 67742	1130	1455.1 22807	17.289	84.164 66002	0.4588 03902	3.0591 87156
CC04_15-100	1813	16	100.3309432	0.0485 01362	8.7356 32184	1.3065 69343	4.2194 09283	21.082 25108	8.0459 77011	60.457 51634	91.724 13793	133.85 82677	217.17 64706	302.00 80321	429.72 22222	586.69 35484	773.68 42105	15951.80367	12.797 15505	1246.5 11713	0.1973 50992	21.591 41307
CC04_15-47	2047	25	100.2442599	1.0054 49591	9.7805 64263	7.3722 62774	12.236 28692	41.774 89177	20.574 71264	109.15 03268	163.10 34483	272.96 58793	422.35 29412	607.22 89157	866.66 66667	1120.1 6129	1413.1 57895	1405.4 98502	12.946 89568	108.55 87261	0.2726 47777	2.2019 72798
CC04_15-105	1740	22	100.1724138	5.9673 02452	50.052 2466	22.408 75912	31.504 92264	81.818 18182	62.643 67816	162.09 15033	219.31 03448	348.29 39633	528.70 58824	784.33 73494	1097.7 77778	1445.9 67742	1942.1 05263	325.45 78226	11.981 5365	27.163 27931	0.5136 62901	3.1402 65563
CC04_15-91	1812	25	100.1103753	0.4822 88828	6.1964 47231	4.7518 24818	7.1729 95781	19.567 09957	14.252 87356	42.745 09804	63.620 68966	103.93 70079	166.47 05882	250.20 08032	357.5	492.74 19355	629.73 68421	1305.7 25543	14.732 37566	88.629 66656	0.4574 66567	1.9684 41389
CC04_15-74	1775	21	99.83098592	1.2261 58038	31.003 1348	1.3138 68613	2.3066 10408	9.4372 29437	3.9655 17241	44.150 3268	86.379 31034	165.09 18635	307.41 17647	489.15 66265	763.05 55556	1068.9 51613	1457.6 31579	1188.7 79532	33.015 19342	36.007 0443	0.1480 01421	41.426 28417
CC04_15-110	1876	28	99.78678038	0.0877 3842	9.4148 38036	1.1021 89781	2.8832 6301	14.891 77489	6.5517 24138	57.385 62092	98.793 10345	172.44 09449	296.70 58824	453.81 5261	623.88 88889	853.22 58065	1090.2 63158	12426.29127	18.998 89102	654.05 35055	0.1812 93863	22.345 20551
CC04_15-62	1787	22	99.77616116	#VALUE!	10.574 71264	0.2029 19708	0.9704 64135	6.7532 46753	1.5172 41379	32.156 86275	64.137 93103	123.35 95801	225.88 23529	365.06 0241	531.94 44444	725.40 32258	970	#VALUE!	30.164 63415	#VALUE!	0.0779 87001	249.22 95924
CC04_15-121	1802	29	98.6681465	1.9891 00817	24.660 39707	20.583 94161	26.582 27848	74.458 87446	61.954 02299	113.39 86928	134.65 51724	182.41 46982	254.11 76471	384.33 73494	597.22 22222	862.5	1207.8 94737	607.25 66691	10.651 75186	57.010 02776	0.6595 85066	1.5471 59849
CC04_15-73	1747	32	98.62621637	5.2861 03542	41.901 77638	46.131 38686	64.275 66807	161.47 18615	132.87 35632	226.79 73856	292.58 62069	355.11 81102	458.47 05882	642.16 86747	975.27 77778	1278.6 29032	1731.5 78947	327.57 18937	7.6349 1582	42.904 45388	0.6844 40317	1.2655 69535
CC04_15-120	1754	33	97.89053592	3.7602 17984	26.018 80878	24.598 54015	36.990 15471	103.89 61039	73.563 21839	183.33 33333	258.27 58621	359.31 75853	511.76 47059	716.86 74699	959.72 22222	1242.7 41935	1560.5 26316	415.00 95347	8.5119 61722	48.756 03865	0.5122 26178	1.5905 77701
CC04_15-60	1842	33	97.17698154	910.08 17439	783.69 90596	656.93 43066	531.64 55696	292.20 77922	57.241 37931	203.26 79739	170.68 96552	186.35 1706	228.23 52941	299.59 83936	413.05 55556	543.14 51613	675	0.7416 91617	3.3207 3955	0.2233 51337	0.2310 56222	0.9654 45228

CC04_15-26	1799	36	96.94274597	4.523160763	38.24451411	42.26277372	62.16596343	148.9177489	122.4137931	211.1111111	241.2068966	275.0656168	327.0588235	415.6626506	558.3333333	778.2258065	1030.789474	227.8914077	4.882686981	46.6736011	0.6800022113	1.3310085103
CC04_15-23	1763	28	96.76687465	84.46866485	102.4033438	108.0291971	126.4416315	222.0779221	118.2758621	331.372549	404.137931	587.1391076	858.8235294	1156.626506	1519.444444	1869.354839	2207.894737	26.13862479	6.662877608	3.923023403	0.4274012635	1.1094086271
CC04_15-80	2791	18	96.63203153	0.247956403	6.520376176	2.262773723	3.797468354	8.658008658	8.505747126	14.70588235	26.89655172	49.34383202	86	137.751004	255.5555556	406.4516129	656.5789474	2647.961249	44.64736842	59.30833872	0.7281010495	4.8359080734
CC04_15-83	2389	17	96.40016743	2.16893733	21.21212121	20.3649635	31.92686357	88.74458874	67.47126437	175.4901961	237.9310345	340.4199475	504.7058824	702.0080321	921.9444444	1171.370968	1486.842105	685.5163978	8.472508086	80.91068086	0.5106091765	1.6329050742
CC04_15-107	2557	16	96.20649198	1.455040872	93.73040752	15.82481752	33.33333333	124.6753247	116.7816092	359.8039216	487.9310345	742.7821522	1122.352941	1562.248996	2041.666667	2572.580645	3226.315789	2217.336882	8.966872221	247.2809723	0.4820091277	12.47618567
CC04_15-104	2020	24	96.08910891	1.008174387	11.807 7325	8.832116788	12.9395218	36.36363636	22.29885057	70.91503268	100	150.1312336	227.0588235	325.7028112	460	594.7580645	739.4736842	733.4779516	10.42760126	70.34004593	0.4157018256	1.9586042284
CC04_15-116	1771	39	96.04743083	0.580381471	9.926854754	6.642335766	10.12658228	37.70562771	23.44827586	117.6470588	189.4827586	346.4566929	570.5882353	899.5983936	1253.333333	1680.645161	2213.157895	3813.281443	18.81184211	202.7064347	0.3018071521	2.2784015429
CC04_15-71	1781	23	94.38517687	1.934604905	15.93521421	21.45985401	34.17721519	104.3290043	66.32183908	243.7908497	369.8275862	583.4645669	904.7058824	1244.97992	1647.222222	2008.064516	2436.842105	1259.607116	9.995625794	126.0158336	0.3810028765	1.1826008653
CC04_15-4	1795	21	94.31754875	26.15803815	54.85893417	55.47445255	75.38677918	179.2207792	129.5402299	309.1503268	404.4827586	553.2808399	777.6470588	1054.618474	1380.555556	1678.629032	2050	78.36979167	6.631078224	11.81855937	0.5304099156	1.3438067665
CC04_15-76	1740	21	93.73563218	1.825613079	11.807 7325	18.46715328	29.95780591	77.05627706	49.77011494	165.3594771	260.3448276	429.1338583	708.2352941	1077.51004	1547.222222	1960.483871	2468.421053	1352.105263	14.92760558	90.57750463	0.4106017826	1.0372033656
CC04_15-34	1753	21	93.66799772	19.91825613	42.84221526	51.16788321	62.02531646	117.3160173	85.86206897	178.4313725	220.6896552	296.8503937	417.6470588	561.4457831	765.2777778	967.3387097	1184.210526	59.45352437	6.636784268	8.958182452	0.5806044644	1.0149053174
CC04_15-78	1825	19	93.5890411	3.373297003	23.19749216	38.54014599	52.74261603	142.8571429	103.908046	277.4509804	387.9310345	553.8057743	794.1176471	1104.417671	1458.333333	1834.677419	2160.526316	640.4791259	7.787055979	82.24920016	0.4944037486	0.8237013138
CC04_15-68	1892	21	93.18181818	4.604904632	26.332 2884	34.74452555	47.96061885	118.6147186	92.29885057	181.372549	230.862069	289.5013123	375.2941176	491.9678715	651.1111111	809.2741935	1007.894737	218.8741825	5.557041252	39.38681982	0.6153051787	1.0461066021
CC04_15-85	1881	37	93.14194577	1.016348774	16.92789969	10.65693431	14.90857947	45.02164502	35.51724138	85.94771242	121.0344828	179.5275591	261.1764706	363.0522088	515	689.9193548	868.4210526	854.4518132	10.10406244	84.56517549	0.5423074828	2.2221057126
CC04_15-97	1883	13	92.93680297	5.53133515	45.87251829	58.39416058	82.41912799	228.5714286	181.954023	348.0392157	408.6206897	529.1338583	649.4117647	801.2048193	1068.611111	1353.225806	1586.842105	286.8822919	4.559377317	62.92137545	0.6311015727	1.1087070744
CC04_15-59	1763	21	92.51276234	3.569482289	27.690 7001	31.45985401	46.69479606	124.2424242	91.95402299	230.7189542	298.2758621	436.2204724	592.9411765	805.2208835	1094.444444	1359.677419	1607.894737	450.4560064	6.969062174	64.63653146	0.5181072	1.3064038629

CC04_15-79	2757	20	92.38302503	0.809264305	11.98537095	9.927007299	14.26160338	40.17316017	33.44827586	90.8496732	133.6206897	201.5748031	327.2941176	499.5983936	746.3888889	984.6774194	1356.315789	1675.986178	14.92923135	112.2620541	0.510571707	1.734535337
CC04_15-48	1786	26	91.82530795	75.80381471	109.2998955	101.7518248	111.1111111	174.4588745	129.3103448	271.2418301	334.8275862	456.167979	668.2352941	934.1365462	1350.833333	1824.596774	2328.947368	30.72335313	8.586239696	3.578208182	0.580256408	1.172985988
CC04_15-54	1826	20	91.62102957	9.455040872	32.9153605	86.8613387	253.164557	2779.220779	3057.471264	13562.0915	20224.13793	22572.17848	20964.70588	17590.36145	14888.88889	12217.74194	9552.631579	1010.321553	0.704362714	1434.376825	0.374201436	1.104456796
CC04_15-86	1911	21	91.52276295	5.068119891	44.5141 0658	54.45255474	82.27848101	231.6017316	180.4597701	341.8300654	410.3448276	519.6850394	675.2941176	844.5783133	1177.777778	1459.677419	1765.789474	348.4111488	5.165693871	67.44711505	0.629402733	1.235228792
CC04_15-32	1985	22	90.88161209	2.310626703	29.72831766	26.05839416	39.24050633	123.8095238	93.90804598	228.1045752	295.5172414	402.8871391	572.9411765	743.373494	1020.277778	1339.919355	1655.263158	716.3697865	7.256597798	98.71978666	0.533698685	1.71794651
CC04_15-46	1833	22	90.39825423	5.422343324	34.58725183	44.52554745	68.49507736	194.3722944	144.4827586	306.5359477	380.5172414	520.9973753	696.4705882	965.8634538	1300	1649.596774	1963.157895	362.0497223	6.404331725	56.53200644	0.576883135	1.194969665
CC04_15-77	1868	32	90.364 0257	3.678474114	44.20062696	29.34306569	41.91279887	117.7489177	93.10344828	197.3856209	236.2068966	310.2362205	385.8823529	536.9477912	703.8888889	922.1774194	1105.263158	300.4678363	5.599512025	53.65964657	0.590880636	2.151612809

Concordant samples REE data for Wollogorang Formation, normalised to chondrite values from Taylor and McLennan (1985).

Analysis	Age	Error	Concordance	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Lu/La	Lu/Gd	Gd/La	Eu*	Ce*
CC06_01-119	2209	51	102.0823902	0.077656676	16.40543365	0.722627737	1.58931083	7.445887446	4.057471264	22.7124183	35.34482759	61.41732283	117.7647059	196.7871486	324.4444444	488.3064516	724.7368421	9332.576177	31.90927679	292.4721936	0.269078197	49.93065951
CC06_01-92	1864	42	101.0729614	#VALUE!	6.384535005	0.278832117	0.689170183	4.891774892	0.586206897	18.03921569	36.20689655	69.47506562	121.2941176	188.3534137	290.5555556	377.8225806	493.1578947	#VALUE!	27.33810069	#VALUE!	0.051127917	56.59397
CC06_01-7	1803	48	100.7764836	0.023705722	8.829676071	0.700729927	1.58931083	11.2987013	5.942528736	51.37254902	97.5862069	173.2283465	317.6470588	469.0763052	651.1111111	854.8387097	1107.894737	46735.3297	21.56588992	2167.094884	0.189641301	28.57934573
CC06_01-84	1763	43	100.567215	#VALUE!	8.892371996	0.430656934	1.364275668	10.25974026	3.183908046	40.81699346	74.31034483	140.9448819	236.9411765	363.4538153	521.6666667	691.1290323	938.4210526	#VALUE!	22.99094012	#VALUE!	0.12467156	65.41191547
CC06_01-114	1902	40	100.4731861	0.077929155	25.60083595	1.97080292	5.991561181	27.61904762	19.88505747	75.45751634	106.7241379	168.7664042	279.4117647	432.9317269	630.8333333	892.7419355	1240.789474	15922.01877	16.44355041	968.2835139	0.385830818	39.49187475
CC06_01-101	2568	34	100.2336449	0.023705722	9.247648903	0.381751825	1.23769339	7.445887446	1.609195402	31.92810458	53.44827586	94.30446194	158.7058824	234.939759	338.0555556	450.4032258	566.0526316	23878.31216	17.728977	1346.852227	0.081739002	78.53842015
CC06_01-20	1903	46	100.1576458	0.065395095	8.129571578	1.087591241	3.052039381	16.62337662	4.298850575	69.28104575	119.6551724	208.3989501	326.5882353	485.9437751	641.3888889	818.1451613	1012.368421	15480.80044	14.61248759	1059.422658	0.10000845	20.97617945
CC06_01-104	1801	43	100.1110494	0.025340599	4.618599791	0.547445255	1.139240506	7.316017316	4.022988506	32.35294118	59.13793103	109.9737533	195.2941176	295.9839357	427.7777778	577.8225806	750	29596.77419	23.18181818	1276.723593	0.202828038	17.55675939
CC06_01-86	1761	42	100.0567859	6.267029973	17.24137931	6.058394161	5.76652602	12.55411255	2.425287356	39.24836601	70.86206897	136.4829396	238.2352941	374.6987952	549.4444444	733.4677419	978.6842105	156.1639588	24.93566765	6.262674055	0.093635958	2.708764268
CC06_01-47	2552	64	100	0.024795564	9.174503657	0.510948905	2.194092827	13.07359307	10.65517241	41.17647059	66.89655172	107.8740157	177.5294118	262.248996	398.6111111	536.6935484	734.7368421	29631.69462	17.84360902	1660.633484	0.392816955	77.10501572
CC06_0	2497	36	99.95995194	0.108991826	11.32706374	2.99270073	9.00140647	43.11688312	6.367816092	124.7385621	183.1034483	283.7270341	447.0588235	639.3574297	844.1666667	1115.725806	1393.157895	12782.22368	11.16862237	1144.476307	0.075872619	11.38416387

1-71																						
CC06_01-18	2587	34	99.76807112	0.030517711	11.78683386	0.781021898	2.503516174	14.67532468	4.425287356	64.37908497	108.9655172	191.6010499	330.2352941	488.7550201	689.7222222	891.9354839	1093.947368	35846.31109	16.9927892	2109.564659	0.111955484	48.37501831
CC06_01-29	2492	63	99.43820225	#VALUE!	3.469174504	0.474452555	1.223628692	5.411255411	4.149425287	24.08496732	43.10344828	79.52755906	142.2352941	222.0883534	331.9444444	447.983871	615.7894737	#VALUE!	25.56737842	#VALUE!	0.281352994	18.85776498
CC06_01-1	1793	45	99.05186838	#VALUE!	9.916405434	0.328467153	1.420534459	10.73593074	3.32183908	49.05228758	85.51724138	160.3674541	286.2352941	422.8915663	615.2777778	822.983871	1040.526316	#VALUE!	21.21259511	#VALUE!	0.11112019	130.5636115
CC06_01-23	1779	44	98.93198426	0.065395095	32.97805643	1.270072993	3.17862166	16.40692641	12.4137931	62.74509804	110	193.7007874	332.5882353	513.6546185	733.6111111	985.0806452	1328.947368	20321.82018	21.18009868	959.4771242	0.313636963	64.98401387
CC06_01-113	2880	41	98.71527778	0.027792916	12.68547544	0.348175182	1.026722925	5.497835498	4.310344828	21.53594771	34.65517241	65.6167979	109.2941176	171.8875502	264.1666667	372.983871	503.9473684	18132.22394	23.40028752	774.8718442	0.318885803	107.4396004
CC06_01-38	1802	52	98.61265261	#VALUE!	7.168234065	0.496350365	1.842475387	9.220779221	3.344827586	41.04575163	70.86206897	143.832021	246.9411765	381.9277108	550.5555556	748.3870968	981.5789474	#VALUE!	23.91426416	#VALUE!	0.133083685	53.60893527
CC06_01-83	1790	51	96.98324022	0.171662125	5.308254963	3.452554745	8.621659634	35.67099567	23.44827586	121.2418301	178.6206897	300.5249344	468.2352941	655.4216867	881.1111111	1102.016129	1416.578947	8252.134503	11.68391261	706.281772	0.298870099	3.839383562
CC06_01-60	1834	51	96.782988	0.040054496	13.88714734	1.182481752	3.333333333	16.66666667	7.701149425	60.45751634	121.2068966	241.2073491	428.2352941	675.9036145	1038.888889	1435.887097	1894.736842	47303.97422	31.33997155	1509.38153	0.199707773	33.10570903
CC06_01-105	1776	40	96.05855856	0.133514986	9.623824451	1.518248175	4.163150492	23.46320346	8.563218391	85.91503268	145.3448276	252.2309711	428.5882353	639.3574297	887.2222222	1130.645161	1431.052632	10718.29216	16.65660347	643.4860611	0.156579932	17.38138051
CC06_01-55	2406	43	93.05901912	0.280653951	18.11912226	5.598540146	14.48663854	52.68398268	26.89655172	122.2222222	151.2068966	223.6220472	330.2352941	465.060241	658.0555556	860.483871	1130	4026.31068	9.245454545	435.4908306	0.307554003	8.374428631
CC06_01-48	1826	41	92.49726177	0.239782016	7.690700104	5.715328467	9.00140647	30.86580087	20.8045977	71.89542484	114.137931	193.175853	326.9411765	495.1807229	729.1666667	966.5322581	1257.105263	5242.700359	17.48519139	299.8366013	0.404911435	2.119306939
CC06_0	1831	45	91.48006554	0.223433243	6.039707419	4.233576642	7.594936709	22.94372294	22.52873563	57.18954248	83.96551724	153.5433071	272	426.9076305	617.7777778	837.5	1099.736842	4921.99294	19.22968421	255.9580743	0.562281732	2.559323633

1-64																						
CC05_02-37	1778	24	101.0686164	0.354223433	4.838035528	1.671532847	1.828410689	7.878787879	1.804597701	39.5751634	88.27586207	178.2152231	319.1764706	504.8192771	800.5555556	1035.483871	1421.842105	4013.969636	35.92763701	111.7237305	0.076056794	3.166015046
CC05_02-15	1753	28	100.9697661	#VALUE!	9.352142111	0.275182482	0.857946554	7.575757576	1.609195402	36.8627451	74.13793103	133.8582677	247.4117647	390.7630522	561.3888889	787.5	961.3157895	#VALUE!	26.07824748	#VALUE!	0.072423475	105.9570274
CC05_02-65	1812	32	100.8278146	#VALUE!	3.163009404	0.204379562	0.801687764	9.220779221	2.402298851	44.80392157	98.27586207	189.2388451	340.2352941	536.5461847	800.2777778	1097.983871	1456.315789	#VALUE!	32.50420362	#VALUE!	0.088933351	60.70588708
CC05_02-90	1783	32	100.6169377	0.010899183	13.76175549	0.503649635	1.631504923	12.16450216	9.16091954	51.60130719	93.27586207	166.1417323	304.7058824	493.1726908	695.8333333	1014.919355	1368.421053	12555 2.6316	26.51911603	4734.419935	0.287330142	88.5126164
CC05_02-66	1877	42	100.3729355	0.057493188	34.04388715	1.416058394	4.289732771	15.84415584	15.86206897	39.54248366	53.44827586	74.80314961	96	122.8915663	159.4444444	206.4516129	253.9473684	4416.999252	6.422140061	687.7768485	0.572776002	72.8294542
CC05_02-62	1755	32	100.2849003	1.989100817	10.42842215	2.751824818	3.122362869	10.04329004	3.344827586	46.73202614	85.51724138	154.5931759	269.2941176	416.4658635	593.8888889	788.3064516	1036.842105	521.2617159	22.18697092	23.49404602	0.117826824	4.299920352
CC05_02-64	2526	27	100.1187648	2.942779292	40.54336468	15.69343066	19.9718706	19.17748918	11.26436782	40.81699346	72.93103448	106.2992126	175.7647059	256.2248996	371.9444444	497.5806452	647.3684211	219.9853801	15.86026716	13.87021908	0.375513458	3.287779975
CC05_02-26	1877	28	100.106553	9.509536785	45.14106583	43.79562044	46.83544304	30.73593074	12.29885057	44.11764706	61.20689655	107.0866142	182.7058824	281.5261044	423.8888889	528.6290323	742.1052632	78.03800332	16.82105263	4.639305579	0.328610894	1.102262609
CC05_02-27	1834	26	99.94547437	0.403269755	6.865203762	3.503649635	4.824191 28	12.77056277	4.482758621	54.34640523	103.1034483	192.3884514	329.7647059	501.6064257	748.6111111	953.2258065	1330.526316	3299.345661	24.48232427	134.7643967	0.133580487	2.697966859
CC05_02-16	1813	34	99.9448428	0.686648501	5.381400209	4.109489051	5.428973277	16.32034632	3.919540 23	60.75163399	109.6551724	179.2650919	281.0588235	408.0321285	562.2222222	767.7419355	930	1354.404762	15.30823023	88.47559394	0.101711159	1.729965092
CC05_02-43	1761	24	99.88642817	4.877384196	27.00104493	27.51824818	29.95780591	26.66666667	11.10344828	80.09803922	138.7931034	264.0419948	475.1764706	739.7590361	1057.5	1462.096774	1885.526316	386.5855631	23.54023063	16.42233541	0.20799848	1.068191 23
CC05_0	1870	36	99.67914439	3.651226158	20.48066876	20	21.37834037	22.72727273	11.6091954	58.82352941	115	219.160105	422.3529412	679.1164659	991.6666667	1358.064516	1778.947368	487.2191673	30.24210526	16.11062335	0.284710759	1.094606769

2-100																						
CC05_02-79	2008	28	99.50199203	1.179836512	12.49738767	7.883211679	10.99859353	26.66666667	9.448275862	78.75816993	107.2413793	159.0551181	219.0588235	291.5662651	408.8888889	519.3548387	705.5263158	597.9865078	8.958134964	66.75346043	0.179241935	2.211821206
CC05_02-89	1788	26	99.27293065	2.343324251	33.75130617	12.18978102	15.04922644	20.73593074	13.2183908	71.14379085	120.5172414	218.3727034	410.9411765	655.4216867	906.9444444	1253.225806	1605.263158	685.0367197	22.56364384	30.36019912	0.287732496	3.41832187
CC05_02-93	1754	36	99.2018244	3.40599455	29.04911181	19.48905109	22.9254571	19.91341991	14.25287356	28.03921569	37.5862069	55.38057743	92.70588235	151.8072289	233.0555556	360.483871	507.1052632	148.8861053	18.08557232	8.232313725	0.594456317	1.753353455
CC05_02-84	1774	30	99.15445321	0.027520436	11.44200627	0.715328467	2.194092827	16.45021645	6.413793103	82.35294118	161.2068966	286.0892388	518.7058824	789.1566265	1064.166667	1446.370968	1784.210526	64832.20427	21.66541353	2992.428655	0.129829719	49.06210323
CC05_02-61	1793	55	98.82877858	95.50408719	100	91.31386861	89.45147679	69.48051948	14.82758621	89.54248366	120.5172414	186.351706	280.1176471	413.253012	573.0555556	745.1612903	939.4736842	9.836999775	10.49193239	0.937577504	0.186483539	1.072788304
CC05_02-55	2051	25	98.7810824	0.174386921	10.70010449	0.963500365	1.701828411	8.484848485	2.747126437	27.15686275	40.17241379	62.96587927	96.94117647	141.0040161	206.1111111	282.6612903	372.8947368	2138.318257	13.73114193	155.7276348	0.154152331	19.6153951
CC05_02-8	1871	23	98.45002672	10.4359673	44.09613375	38.97810219	36.56821378	28.78787879	15.12643678	54.18300654	75	110.2362205	179.8823529	264.2570281	361.1111111	516.9354839	622.8947368	59.68730246	11.49612723	5.191948668	0.364620354	1.061360402
CC05_02-53	1764	34	98.29931973	14.93188011	72.83176594	65.10948905	66.80731364	72.29437229	41.95402299	142.1568627	206.5517241	341.4698163	568.3529412	801.6064257	1101.388889	1445.16129	1865.789474	124.9534191	13.12486388	9.520359239	0.391268654	1.147773715
CC05_02-56	2114	39	98.1551561	1.36239782	17.45036573	4.671532847	6.188466948	10.69264069	8.620689655	30.88235294	47.5862069	80.83989501	148.2352941	245.3815261	376.9444444	595.1612903	932.6315789	684.5515789	30.19949875	22.66764706	0.414705519	4.948445545
CC05_02-38	1786	48	98.04031355	7.384196185	25.80982236	19.8540146	26.01969058	44.1991342	24.25287356	117.3202614	178.2758621	309.9737533	473.6470588	661.0441767	947.2222222	1102.822581	1450	196.3653137	12.35933148	15.88802064	0.300309117	1.703689589
CC05_02-25	1827	42	97.86535304	0.136239782	8.119122257	3.145985401	9.535864979	48.57142857	3.735632184	162.4183007	251.5517241	421.5223097	660	899.5983936	1201.944444	1443.145161	1805.263158	13250.63158	11.11489993	1192.150327	0.03541056	7.822683658
CC05_0	1778	38	97.4128234	8.555858311	38.24451411	44.81751825	52.03938115	35.93073593	15.28735632	67.64705882	107.9310345	222.3097113	420.8235294	677.1084337	1013.888889	1399.193548	1834.210526	214.3806571	27.11441648	7.906519296	0.295185978	0.990844865

2-58																						
CC05_02-83	1803	27	96.61674986	13.02452316	59.87460815	47.00729927	41.35021097	23.59307359	9.425287356	61.69934641	98.10344828	185.8267717	334.3529412	494.7791165	697.2222222	940.3225806	1176.842105	90.35586875	19.07381802	4.737167391	0.221011137	1.120443118
CC05_02-48	2162	44	96.57724329	1.171662125	10.97178683	9.781021898	12.09563994	16.45021645	15.63218391	46.63398693	68.79310345	98.68766404	133.1764706	160.2409639	181.1111111	246.7741935	294.2105263	251.1052632	6.308929296	39.80156559	0.49559741	1.387195749
CC05_02-67	2439	20	96.47396474	2.261580381	27.79519331	13.28467153	15.61181435	15.93073593	8.620689655	31.40522876	47.75862069	77.24409449	126.1176471	177.9919679	262.7777778	355.6451613	456.8421053	202.0012682	14.5466893	13.88640838	0.364234244	2.458789984
CC05_02-34	1882	29	94.73963868	15.58583106	71.89132706	81.09489051	84.81012658	69.78354978	35.86206897	117.9738562	142.4137931	232.808399	327.0588235	461.0441767	650.8333333	792.7419355	1089.473684	69.90154582	9.234873888	7.569301613	0.382004308	0.927122729
CC05_02-101	1775	52	94.595493	2.179836512	19.33124347	16.27737226	19.12798875	20.08658009	7.816091954	50	81.37931034	143.3070866	258	393.5742972	564.1666667	744.3548387	963.6842105	442.0901316	19.27368421	22.9375	0.223041043	1.39559854
CC05_02-92	1842	43	93.81107492	3.841961853	18.07732497	19.5620438	23.76933896	19.87012987	11.49425287	33.52941176	56.55172414	95.80052493	167.2941176	251.4056225	342.5	496.7741935	652.3684211	169.8008585	19.45660203	8.727158949	0.430500058	1.122852772
CC05_02-91	1851	31	92.65262021	136.239782	239.2894462	262.0437956	263.1504923	160.1731602	53.33333333	144.1176471	151.5517241	220.2099738	360.2352941	519.6787149	691.9444444	959.6774194	1177.105263	8.639952632	8.167669173	1.057823529	0.350541864	0.917022451
CC05_02-40	1890	38	92.11640212	49.31880109	212.1212121	235.7664234	230.6610408	129.4372294	61.14942529	114.0522876	117.7586207	171.1286089	251.7647059	368.6746988	507.2222222	668.9516129	855.2631579	17.3415237	7.498868949	2.312551908	0.50227563	0.880226496
CC05_02-44	1895	27	91.29287599	17.46594005	81.71368861	96.35036496	101.5471167	67.96536797	35.40229885	85.94771242	108.2758621	172.9658793	276.7058824	418.875502	572.5	781.0483871	1000.789474	57.29949093	11.6441665	4.920875266	0.460029762	0.893831558
CC05_02-70	1832	35	91.15720524	36.51226158	158.8296761	170.0729927	163.1504923	93.50649351	41.72413793	92.48366013	117.2413793	183.7270341	296.7058824	434.1365462	630.8333333	817.7419355	1070.263158	29.31243126	11.5724567 6	2.532948005	0.448670396	0.895878947
CC05_02-5	1878	31	90.84132055	43.59673025	185.9979101	220.4379562	240.5063291	134.6320346	59.88505747	158.8235294	240	428.0839895	818.8235294	1345.381526	1963.888889	2842.741935	3586.842105	82.27319079	22.58382066	3.643014706	0.408137141	0.920580609
CC02_1	1775	23	105.2957746	0.310626703	16.64576803	2.642335766	8.438818565	29.004329	21.83908046	55.88235294	96.89655172	155.3805774	264.7058824	415.2610442	599.4444444	809.6774194	1084.210526	3490.397045	19.40166205	179.9019608	0.514546686	20.11914316

6-72																						
CC02_16-82	1762	19	104.6538025	#VALUE!	39.13270637	0.3138 68613	1.3220 81575	10.952 38095	4.8045 97701	44.836 60131	75.344 82759	134.38 32021	236.11 76471	385.94 37751	577.77 77778	810.08 06452	1074.7 36842	#VALUE!	23.970 07826	#VALUE!	0.1722 41812	525.17 29638
CC02_16-48	1931	17	103.3661315	#VALUE!	0.8192 2675	0.3299 27007	1.3361 46273	17.359 30736	0.4597 70115	73.725 4902	89.827 58621	99.212 59843	91.882 35294	85.421 68675	91.388 88889	117.29 83871	120.78 94737	#VALUE!	1.6383 67861	#VALUE!	0.0100 9543	10.055 93353
CC02_16-31	1783	43	102.2994952	#VALUE!	7.8160 91954	0.1897 81022	1.0829 81716	10.303 0303	3.5747 12644	39.019 60784	72.068 96552	137.00 7874	220.82 35294	366.66 66667	516.38 88889	678.22 58065	884.47 36842	#VALUE!	22.667 41603	#VALUE!	0.1449 52208	235.02 0217
CC02_16-58	1924	27	101.975052	0.1226 15804	65.099 26855	2.0802 91971	5.5414 90858	29.567 09957	16.321 83908	73.202 61438	101.89 65517	155.90 55118	232.23 52941	303.21 28514	408.88 88889	527.41 93548	627.63 15789	5118.6 84211	8.5738 95677	597.00 79884	0.3176 39088	83.359 31636
CC02_16-122	1846	23	101.6793066	0.0299 72752	27.617 55486	0.7080 29197	1.8846 6948	9.9567 09957	3.8505 74713	39.705 88235	62.586 2069	109.97 37533	180.35 29412	262.24 8996	376.38 88889	512.09 67742	642.89 47368	21449. 30622	16.191 423	1324.7 3262	0.1550 69421	103.82 88607
CC02_16-57	2088	24	101.4846743	0.0397 82016	7.4921 63009	0.4525 54745	1.3502 1097	9.0043 29004	2.8965 51724	29.836 60131	53.620 68966	93.280 8399	160.11 76471	239.35 74297	343.61 11111	483.87 09677	623.42 10526	15670. 92646	20.894 50625	750.00 22383	0.1491 49451	49.393 13655
CC02_16-29	1856	23	101.3469828	1.0354 22343	15.433 64681	6.2189 78102	13.122 36287	49.393 93939	39.310 34483	90.849 6732	134.65 51724	215.48 55643	315.41 17647	455.42 16867	591.11 11111	774.59 67742	948.42 10526	915.97 50693	10.439 45475	87.741 65807	0.5606 00859	5.2365 17332
CC02_16-101	1820	17	101.1538462	0.0735 69482	6.1964 47231	3.2262 77372	12.362 8692	75.151 51515	21.379 31034	230.39 21569	266.03 44828	246.19 42257	184	124.09 63855	95.833 33333	76.209 67742	65.789 47368	894.24 95127	0.2855 54311	3131.6 26725	0.1399 42747	7.3596 74814
CC02_16-35	1761	43	101.1357183	#VALUE!	32.810 86729	0.8175 18248	3.3473 98031	18.874 45887	13.333 33333	64.444 44444	102.93 10345	177.16 53543	294.47 05882	442.57 02811	622.77 77778	833.87 09677	1153.4 21053	#VALUE!	17.897 91289	#VALUE!	0.3200 55421	164.33 50327
CC02_16-25	1911	24	101.0465725	0.0471 38965	1.0741 90178	0.2043 79562	0.8157 52461	5.8874 45887	1.4252 87356	54.052 28758	135.34 48276	307.34 90814	615.29 41176	1048.5 94378	1644.4 44444	2225.8 06452	2873.6 84211	60961. 9714	53.164 89531	1146.6 58355	0.0475 57347	20.978 02706
CC02_16-96	1746	29	100.9163803	0.0975 47684	12.027 16823	0.8905 10949	2.1940 92827	9.8701 2987	6.9080 45977	40.130 71895	74.655 17241	135.95 80052	239.88 23529	362.65 06024	560.83 33333	750	960.78 94737	9849.4 3399	23.941 49666	411.39 59178	0.2763 17148	33.276 66974
CC02_1	1781	23	100.6176305	0.0272 47956	13.751 30617	1.4014 59854	5.6118 14346	33.116 88312	10.459 77011	112.41 83007	175.86 2069	279.26 50919	434.35 29412	600.40 16064	796.94 44444	993.54 83871	1264.2 10526	46396. 52632	11.245 59364	4125.7 51634	0.1437 4215	39.290 35234

6-61																						
CC02_16-60	1863	25	100.5904455	0.057220708	8.484848485	1.678832117	6.315049226	31.16883117	4.942528736	101.3071895	147.4137931	247.2440945	396.1176471	545.3815261	745.5555556	945.9677419	1145	20010.2381	11.30225806	1770.463741	0.074617711	19.01105832
CC02_16-68	1897	21	100.3162889	0.896457766	9.498432602	8.496350365	21.54711674	79.35064935	60	160.130719	221.0344828	335.9580052	515.2941176	708.8353414	952.5	1188.306452	1500	1673.25228	9.367346939	178.6260604	0.501082823	2.835151583
CC02_16-97	1897	32	100.3162889	0.286103542	8.035527691	4.094890511	11.7862166	46.62337662	20.8045977	134.9673203	198.1034483	299.2125984	463.8823529	633.3333333	842.5	1054.032258	1295	4526.333333	9.594915254	471.7429194	0.229137264	5.648124117
CC02_16-85	2003	21	100.2496256	4.877384196	16.30094044	9.270072993	16.73699015	51.25541126	27.93103448	120.9150327	188.1034483	297.1128609	475.7647059	673.4939759	950.8333333	1222.983871	1564.473684	320.7608056	12.9386202	24.79095921	0.324457948	3.174853672
CC02_16-41	1893	32	100.1056524	0.111716621	11.82863114	0.729927007	2.23628692	11.68831169	4.252873563	49.67320261	85.68965517	162.2047244	275.6470588	423.6947791	615.8333333	814.516129	1026.315789	9186.77792	20.66135734	444.6357405	0.138616969	49.64815876
CC02_16-112	1770	18	100.0564972	0.253405995	7.032392894	2.328467153	5.963431786	27.35930736	15.74712644	80.06535948	144.4827586	282.4146982	485.2941176	791.9678715	1131.944444	1535.080645	1921.052632	7580.928127	23.99355532	315.9568487	0.293175244	7.734979206
CC02_16-55	1777	23	100.0562746	0.016621253	10.553814	0.350364964	0.759493671	6.83982684	1.850574713	32.32026144	60.34482759	127.5590551	225.7647059	354.2168675	538.3333333	747.983871	987.1052632	59388.13632	30.54137619	1944.51409	0.094513306	65.29685358
CC02_16-19	1809	25	99.88944168	0.035694823	18.46394984	0.98540146	2.995780591	14.37229437	13.10344828	56.37254902	96.55172414	177.4278215	321.8823529	484.7389558	698.6111111	960.8870968	1263.157895	35387.70591	22.40732265	1579.292022	0.370442499	56.96501443
CC02_16-37	1899	20	99.63138494	0.064305177	10.13584117	2.532846715	8.593530239	41.34199134	11.36781609	135.620915	212.0689655	340.1574803	517.8823529	766.6666667	1024.722222	1289.112903	1589.473684	24717.6628	11.71997464	2109.020162	0.128476824	13.57730552
CC02_16-88	1752	20	99.543379	0.329700272	15.43364681	3.416058394	7.665260197	33.50649351	24.36781609	71.56862745	125.6896552	201.5748031	332	492.3694779	717.2222222	952.4193548	1203.947368	3651.642018	16.8222783	217.0717874	0.463817046	10.13782727
CC02_16-50	1876	26	99.46695096	0.915531335	10.03134796	6.03649635	14.62728551	49.78354978	44.59770115	81.04575163	119.4827586	176.9028871	256.4705882	359.8393574	511.1111111	682.2580645	882.8947368	964.352287	10.89378183	88.52318705	0.681769308	4.026735922

CC02_16 - 9	1891	19	99.45002644	0.0681 19891	13.94984326	0.7664 23358	3.3333 33333	14.718 61472	5.9080 45977	66.732 02614	111.37 93103	192.91 33858	347.05 88235	519.67 87149	746.66 66667	996.37 09677	1303.1 57895	19130. 35789	19.528 2231	979.62 61438	0.1450 70583	79.160 87926
CC02_16 - 59	1807	23	99.44659657	0.4141 68937	42.800 41797	3.8686 13139	8.6216 59634	34.978 35498	29.080 45977	64.379 08497	96.724 13793	166.66 66667	256.58 82353	392.36 94779	598.33 33333	861.29 03226	1158.9 47368	2798.2 47922	18.001 92359	155.44 16065	0.5853 70553	24.656 32121
CC02_16 - 26	2546	19	99.41084053	0.1008 17439	76.583 0721	1.4890 51095	4.3319 26864	26.017 31602	11.264 36782	72.222 22222	120	207.34 90814	348.58 82353	532.12 85141	774.16 66667	1065.3 22581	1376.0 52632	13648. 95448	19.053 03644	716.36 63664	0.2293 24527	149.62 17394
CC02_16 - 102	1967	28	99.18657855	1.1798 36512	9.8746 0815	9.4160 58394	22.784 81013	86.580 08658	49.425 28736	204.90 19608	310.34 48276	497.11 28609	761.17 64706	1055.8 23293	1372.2 22222	1713.3 06452	2005.2 63158	1699.6 11037	9.7864 51775	173.66 97912	0.3391 30919	2.5376 22394
CC02_16 - 6	1783	20	98.59786876	6.3760 21798	18.913 27064	6.2773 72263	7.1729 95781	15.021 64502	6.8735 63218	55.228 75817	96.896 55172	169.55 38058	302.82 35294	481.92 77108	716.38 88889	953.62 90323	1253.1 57895	196.54 22852	22.690 31454	8.6619 4626	0.1956 87509	3.4427 97225
CC02_16 - 18	1844	38	98.59002169	0.3950 95368	5.6739 81191	2.4744 52555	5.9071 72996	25.974 02597	18.965 51724	59.477 12418	97.758 62069	154.06 82415	215.29 41176	288.35 34137	401.94 44444	497.58 06452	621.05 26316	1571.9 05626	10.441 87392	150.53 86522	0.4438 91445	5.4740 57052
CC02_16 - 27	1821	31	98.57221307	0.3351 49864	11.138 97597	3.3284 67153	8.6075 94937	40.129 87013	21.609 1954	111.11 11111	194.82 75862	334.12 07349	540	785.94 37751	1079.7 22222	1362.9 03226	1723.6 84211	5143.0 25246	15.513 15789	331.52 66486	0.2857 58466	8.6544 3135
CC02_16 - 30	1773	33	98.3643542	0.1362 39782	9.5506 79206	1.5255 47445	4.9226 44163	23.852 81385	11.724 13793	78.758 16993	124.82 75862	222.30 97113	370.58 82353	557.02 81124	783.05 55556	984.67 74194	1252.6 31579	9194.3 15789	15.904 7827	578.08 49673	0.2285 16237	20.201 39049
CC02_16 - 107	1813	22	97.95918367	0.3514 98638	6.6248 69383	3.9708 0292	10.182 84107	43.160 17316	32.413 7931	96.078 43137	163.10 34483	288.18 89764	497.64 70588	797.59 03614	1138.8 88889	1580.6 45161	2081.5 78947	5922.0 11424	21.665 41353	273.33 94133	0.4655 86296	4.2784 81126
CC02_16 - 36	1837	31	97.71366358	0.1798 36512	3.5109 71787	1.7153 28467	3.2067 51055	16.406 92641	11.264 36782	54.575 1634	110.34 48276	227.82 15223	400	664.65 86345	1019.4 44444	1379.0 32258	1786.8 42105	9935.9 2504	32.740 93917	303.47 09844	0.3173 86198	3.8264 67206
CC02_16 - 54	1828	28	97.42888403	0.6321 52589	12.215 25601	8.8540 14599	29.732 77075	146.32 03463	21.034 48276	478.43 13725	636.20 68966	1002.8 87139	1470.5 88235	1887.1 48594	2341.6 66667	2802.4 19355	3292.1 05263	5207.7 69964	6.8810 39689	756.82 89385	0.0673 37094	4.6329 48666
CC02_16 - 39	2011	23	96.36996519	0.2615 80381	2.8328 10867	2.9270 07299	6.7791 84248	37.575 75758	20.459 77011	118.88 88889	213.44 82759	392.12 59843	651.41 17647	972.69 07631	1382.7 77778	1769.3 54839	2147.3 68421	8209.2 10526	18.061 97737	454.50 23148	0.2615 2579	2.2415 44713
CC02_1	1840	24	95.97826087	0.6594 00545	10.167 18913	6.2043 79562	15.541 49086	72.727 27273	46.206 89655	165.03 26797	253.27 58621	422.57 21785	676.47 05882	936.14 45783	1280.5 55556	1602.4 19355	1976.3 15789	2997.1 40061	11.975 29964	250.27 68325	0.3886 85278	4.1048 45945

6 - 53																						
CC02_16 - 133	1934	17	95.76008273	0.114441417	2.570532915	1.554744526	4.261603376	24.45887446	7.931034483	91.17647059	175	318.3727034	548.2352941	774.6987952	1130.555556	1491.935484	1831.578947	16004.51128	20.08828523	796.7086835	0.137173188	4.531877109
CC02_16 - 76	1844	19	95.71583514	1.596730245	10.52246604	14.59854015	34.17721519	119.9134199	107.5862069	173.2026144	242.9310345	339.6325459	442.3529412	560.6425703	734.1666667	889.1129032	1071.052632	670.7786959	6.183813307	108.4733097	0.734086125	1.687467233
CC02_16 - 28	1831	35	95.41234298	0.10626703	9.101358412	0.664233577	2.151898734	15.93073593	4.114942529	66.66666667	111.5517241	205.7742782	340	535.3413655	750	963.7096774	1218.421053	11465.65452	18.27631579	627.3504274	0.099638546	44.39012797
CC02_16 - 103	1931	22	94.97669601	0.471389646	13.68861024	4.153284672	9.803094233	42.85714286	30.11494253	87.90849673	138.1034483	216.0104987	351.1764706	504.0160643	682.2222222	909.2741935	1129.210526	2395.492851	12.84529446	186.4879671	0.460594123	7.779275225
CC02_16 - 71	1922	22	94.95317378	1.081743869	6.332288401	8.051094891	18.14345992	69.26406926	59.42528736	113.3986928	185.1724138	275.0656168	390.5882353	510.8433735	618.6111111	748.7903226	831.5789474	768.7392284	7.333232216	104.8295221	0.650655574	1.7724374
CC02_16 - 32	1871	22	94.60181721	0.621253406	14.04388715	6.496350365	11.39240506	37.22943723	23.90804598	99.34640523	171.7241379	322.5721785	540	871.0843373	1246.666667	1636.693548	2050	3299.780702	20.63486842	159.912854	0.350106513	3.791088804
CC02_16 - 8	2182	30	94.45462878	0.196185286	16.18599791	3.722627737	12.72855134	59.43722944	5.413793103	182.3529412	275.5172414	422.8346457	647.4117647	861.4457831	1137.5	1385.887097	1610.526316	8209.210526	8.831918506	929.4934641	0.04478092	14.86685962
CC02_16 - 92	1815	20	94.15977961	0.89373297	35.88296761	7.883211679	18.56540084	62.77056277	55.28735632	84.64052288	109.6551724	160.6299213	244.3529412	374.6987952	633.0555556	935.483871	1334.210526	1492.851412	15.7632595	94.70448749	0.750111243	10.71979072
CC02_16 - 7	1837	28	94.12084921	0.228882834	15.71577847	3.576642336	9.142053446	36.36363636	33.79310345	85.62091503	132.4137931	207.6115486	341.1764706	493.9759036	719.1666667	895.5645161	1176.315789	5139.379699	13.73865006	374.081855	0.554055461	11.23126381
CC02_16 - 95	1882	23	94.10201913	3.841961853	13.68861024	10.2919708	23.34739803	80.08658009	63.10344828	129.4117647	178.4482759	266.6666667	385.8823529	508.4337349	700	854.4354839	1042.105263	271.2430011	8.052631579	33.68377138	0.602424314	3.017176762
CC02_16 - 83	1970	19	93.75634518	1.844686649	9.571577847	14.16058394	32.3488045	119.4805195	100	197.7124183	285.1724138	443.0446194	627.0588235	872.6907631	1169.444444	1530.645161	1826.315789	990.0412035	9.23723358	107.1794055	0.630531062	1.544114302
CC02_16 - 66	1982	28	93.69323915	0.689373297	16.55172414	5.167883212	14.62728551	57.14285714	39.88505747	104.248366	154.6551724	244.3569554	377.6470588	533.7349398	740.2777778	931.0483871	1162.368421	1686.123362	11.14999175	151.2219381	0.494265508	9.065287812

CC02_16-12	2006	21	93.46959123	1.035422343	8.359456635	10.58394161	21.80028129	78.78787879	67.81609195	153.2679739	241.3793103	377.9527559	558.8235294	783.1325301	1077.777778	1383.064516	1692.105263	1634.217452	11.04017506	148.0245958	0.584480772	1.626841627
CC02_16-65	1844	22	92.46203905	1.068119891	24.90073145	9.927007299	23.62869198	78.35497835	70.22988506	120.9150327	165.6896552	245.144357	354.1176471	522.4899598	775.2777778	1034.677419	1421.052632	1330.424275	11.75248933	113.2036148	0.704871593	5.970560496
CC02_16-89	1977	21	92.26100152	1.171662125	8.662486938	11.72992701	28.41068917	101.7316017	89.54022989	167.6470588	243.4482759	347.2440945	442.3529412	554.2168675	711.1111111	911.2903226	1076.315789	918.623011	6.420129271	143.0848153	0.664790817	1.788684495
CC02_16-90	1751	21	91.9474586	1.335149864	20.72100313	13.61313869	32.20815752	128.5714286	92.98850575	240.1960784	333.1034483	496.3254593	741.1764706	973.0923695	1301.944444	1570.564516	1860.526316	1393.496241	7.745864662	179.9019608	0.504320495	3.601306792
CC02_16-15	1859	20	91.3394298	11.44414169	51.09717868	34.37956204	57.94655415	160.6060606	142.5287356	249.0196078	339.6551724	487.9265092	662.3529412	894.37751	1211.111111	1524.193548	1847.368421	161.424812	7.4185661	21.75957049	0.695897482	2.505093019

Concordant samples REE data for Wuraliwuntya Member, normalised to chondrite values from Taylor and McLennan (1985).

Analysis	Age	Error	Concordance	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Lu/La	Lu/Gd	Gd/La	Eu*	Ce*
CC04_01-58	1810	42	104.1436464	#VALUE!	11.11807732	0.364963504	0.94233474	7.229437229	0.919504023	28.1372549	46.37931034	83.98950131	137.2941176	201.6064257	309.1666667	405.2419355	541.8421053	#VALUE!	19.25710618	#VALUE!	0.052000353	78.6567536
CC04_01-102	1972	22	103.8539554	#VALUE!	0.682340648	0.372262774	1.603375527	15.67099567	0.885057471	70.58823529	91.20689655	93.43832021	86.70588235	82.32931727	100.5555556	123.7903226	141.8421053	#VALUE!	2.009429825	#VALUE!	0.020520876	7.8947299
CC04_01-117	1858	28	102.2066738	0.133514986	3.751306165	2.321167883	4.149085795	19.65367965	4.206896552	65.35947712	110.1724138	181.1023622	306.5882353	436.1445783	592.2222222	790.3225806	978.6842105	7330.145005	14.97386842	489.529145	0.098970482	2.888828902
CC04_01-44	1745	38	102.0630372	#VALUE!	4.440961338	0.188321168	0.675105485	5.411255411	1.413793103	23.9869281	42.5862069	83.98950131	142.2352941	224.497992	336.9444444	456.8548387	594.4736842	#VALUE!	24.78323534	#VALUE!	0.096182344	84.5376850 9

CC04_01-28	1792	40	101.7857143	0.553133515	7.816091954	1.474452555	3.206751055	16.92640693	9.310344828	63.39869281	110.1724138	187.4015748	318.2352941	476.3052209	673.6111111	895.1612903	1134.210526	2050.518538	17.8901248	114.6173412	0.231816577	11.52904414
CC04_01-42	1837	26	101.3609145	0.125340599	8.861024033	3.065693431	6.075949367	15.23809524	7.229885057	56.17647059	104.4827586	194.488189	347.1764706	531.7269076	790	1070.967742	1418.421053	11316.53318	25.24937999	448.1905371	0.202476483	5.728495999
CC04_01-114	1842	26	101.3029316	0.286103542	12.34064786	5.109489051	7.876230661	16.1038961	7.701149425	40.68627451	70	121.2598425	194.3529412	309.6385542	458.3333333	673.7903226	880	3075.809524	21.62891566	142.2082166	0.271214168	3.723072046
CC04_01-96	1894	40	101.2671595	0.028065395	7.690700104	0.693430657	2.278481013	12.16450216	5.965517241	42.48366013	62.24137931	100.2624672	157.2941176	232.1285141	330.2777778	424.1935484	555.2631579	19784.61932	13.07004049	1513.738181	0.218324532	36.4422526
CC04_01-99	1958	28	101.2257406	0.239782016	6.457680251	4.01459854	5.555555556	16.45021645	7.586206897	52.94117647	96.55172414	185.8267717	322.5882353	501.2048193	747.2222222	986.6935484	1335.263158	5568.654306	25.22163743	220.7887701	0.218649794	2.225972463
CC04_01-63	2192	27	100.9124088	0.735694823	15.84117032	14.16058394	21.65963432	38.52813853	22.64367816	77.45098039	102.5862069	168.2414698	260.2352941	371.0843373	520	670.9677419	831.0526316	1129.615984	10.73004664	105.2759622	0.390478534	1.711102627
CC04_01-12	1787	26	100.7274762	0.340599455	8.986415883	7.080291971	8.157524613	30.3030303	17.01149425	60.13071895	109.3103448	183.2020997	307.0588235	469.8795181	691.9444444	892.7419355	1132.631579	3325.406316	18.83615561	176.5437908	0.376220037	1.462320513
CC04_01-98	2417	31	100.3309888	1.392370572	30.303030303	23.94160584	33.19268636	53.24675325	39.77011494	88.23529412	117.0689655	175.0656168	280.9411765	421.2851406	607.5	799.1935484	1068.421053	767.3395818	12.10877193	63.3705537	0.562193094	1.754776902
CC04_01-37	1850	32	100.3243243	0.517711172	13.01985371	11.02189781	16.4556962	28.05194805	18.3908046	59.47712418	76.72413793	123.3595801	185.7647059	263.4538153	355.8333333	472.1774194	580	1120.315789	9.751648352	114.8847609	0.420221628	1.763663864
CC04_01-83	1757	29	100.2276608	0.588555858	11.12852665	11.7080292	20.28129395	58.87445887	31.95402299	166.3398693	246.5517241	403.4120735	644.3529412	870.6827309	1144.722222	1365.725806	1736.842105	2951.023392	10.44152621	282.6237594	0.283765454	1.646515169
CC04_01-30	2045	22	100.195599	0.0626703	7.147335423	1.693430657	2.869198312	10.34632035	3.482758621	31.76470588	58.62068966	107.6115486	189.6470588	299.1967871	422.2222222	580.6451613	746.0526316	11904.40503	23.48684211	506.8542199	0.165408395	7.151051326
CC04_01-52	1749	30	100.1715266	0.378746594	30.95088819	7.248175182	11.01265823	22.9004329	16.09195402	61.50326797	95	161.9422572	269.2941176	404.0160643	597.2222222	792.7419355	1072.894737	2832.750852	17.44451591	162.3863262	0.381309205	6.487956286

CC04_01-43	1776	36	100.0563063	1.267029973	33.33333333	29.8540146	43.03797468	70.56277056	50.57471264	156.8627451	241.2068966	408.1364829	648.2352941	924.8995984	1297.222222	1652.419355	2047.368421	1615.880023	13.05197368	123.8034999	0.444758474	1.609626411
CC04_01-46	1885	40	99.8938992	#VALUE!	17.07419018	0.671532847	1.884669 48	14.28571429	6.137931034	61.66666667	116.3793103	222.5721785	384.1176471	586.3453815	879.1666667	1189.919355	1557.894737	#VALUE!	25.26315789	#VALUE!	0.16162577	71.3576915
CC04_01-55	1762	36	99.7162 3156	10.59945504	49.11180773	47.5912 4088	60.4781 9972	83.8961039	57.3563 2184	126.4705882	167.4137931	230.7086614	358.4705882	505.62249	695.2777778	911.2903226	1131.315789	106.733392	8.945287638	11.931801	0.54529851	1.311386528
CC04_01-109	1890	35	99.6296 2963	0.869209809	14.98432602	12.5547 4453	21.8002 8129	43.5064 9351	25.7471 2644	94.11764706	130.6896552	216.2729659	333.1764706	465.8634538	611.6666667	831.4516129	1025	1179.231975	10.890625	108.2795501	0.374165845	2.072447566
CC04_01-7	2415	28	99.3374 7412	0.435967302	25.26645768	2.4817 51825	4.5007 03235	13.2900 4329	6.2068 96552	38.562 0915	58.6206 8966	103.4120735	169.2941176	255.0200803	404.1666667	563.7096774	749.7368421	1719.708882	19.44232828	88.45179739	0.239407561	18.46324517
CC04_01-103	2391	23	99.1635299	0.023978202	14.38871473	0.9927 0073	2.8551 33615	17.402 5974	2.7816 09195	60.78431373	108.1034483	190.0262467	310.5882353	451.4056225	639.1666667	845.5645161	1042.105263	43460.52632	17.14431239	2534.982175	0.071152809	41.68806691
CC04_01-57	1917	34	98.5393 8445	#VALUE!	5.92476489	0.0978 10219	0.6469 7609	3.2034 63203	1.6896 55172	21.30718954	38.6206 8966	75.5905 5118	131.2941176	205.62249	306.6666667	395.9677419	543.9473684	#VALUE!	25.52881821	#VALUE!	0.137871087	400.673749
CC04_01-115	2516	44	98.4101 7488	0.108991826	11.49425287	3.1386 86131	7.1729 95781	21.212 12121	14.827 58621	49.01960784	71.8965 5172	109.9737533	156.7058824	230.9236948	318.0555556	451.2096774	592.1052632	5432.565789	12.07894737	449.754902	0.422247506	8.369230824
CC04_01-100	2094	86	97.9465 1385	#VALUE!	9.95820 2717	0.2328 46715	0.7313 64276	6.1038 96104	2.6896 55172	22.97385621	37.7586 2069	63.832021	112.4705882	177.1084337	266.9444444	362.9032258	513.9473684	#VALUE!	22.37096653	#VALUE!	0.184997461	134.3304513
CC04_01-64	1844	40	97.8850 3254	1.934604905	42.00626959	47.2992 7007	60.7594 9367	61.0389 6104	46.6666 6667	94.11764706	122.4137931	188.1889764	313.0588235	458.6345382	692.7777778	955.2419355	1244.736842	643.4062268	13.22532895	48.64954432	0.601542754	1.140825931
CC04_01-113	1829	21	97.8676 8726	0.656675749	13.1661442	13.2116 7883	20.6751 0549	42.424 24242	26.781 6092	87.90849673	135.6896552	228.6089239	380.1176471	562.248996	798.0555556	1097.580645	1385.789474	2110.310111	15.76399922	133.8689556	0.410972859	1.559517764
CC04_01-9	1793	25	97.2671 5003	0.577656676	10.8045977	10.9489 0511	15.6540 0844	36.7965368	25.0574 7126	84.8692 8105	135	216.2729659	341.7647059	497.188755	683.6111111	876.2096774	1135	1964.834906	13.37350789	146.9199346	0.411906511	1.410888783
CC04_0	2582	14	97.1727 3431	1.130790191	31.0553814	20.2919 9708	28.9873 4177	54.8051 9481	37.2413 7931	101.6339869	145	222.3097113	338	497.5903614	676.9444444	899.1935484	1163.947368	1029.322131	11.45234388	89.87873061	0.476113195	2.186234789

1 - 33																						
CC04_01 - 5	2535	18	95.0295858	0.940054496	21.72413793	17.29927007	26.31504923	44.32900433	32.75862069	78.10457516	101.7241379	135.6955381	196.2352941	268.2730924	365.5555556	479.0322581	588.4210526	625.9435545	7.533759084	83.08515677	0.535124773	1.910254277
CC04_01 - 18	1909	17	94.70927187	9.591280654	97.17868339	196.350365	248.9451477	244.1558442	196.5517241	252.2875817	191.3793103	186.0892388	187.0588235	165.4618474	201.1111111	231.0483871	273.9473684	28.5621262	1.085853559	26.303 8473	0.791839367	0.627496418
CC04_01 - 69	1899	41	94.04949974	0.286103542	8.045977011	7.153284672	9.971870605	23.03030303	21.72413793	44.05228758	60	85.30183727	129.7647059	177.5100402	258.0555556	341.5322581	446.5789474	1560.899749	10.13747462	153.9732337	0.647683333	1.56799403
CC04_01 - 111	1841	35	93.10157523	0.61852861	11.38975967	13.13868613	18.56540084	35.93073593	23.2183908	91.83006536	148.7931034	248.8188976	400	567.8714859	810.5555556	1131.854839	1405.263158	2271.945282	15.30286571	148.465348	0.363466581	1.224940559
CC04_01 - 110	2657	17	92.66089575	0.975476839	16.40543365	19.635 0365	26.86357243	47.18614719	43.33333333	82.67973856	112.9310345	164.8293963	235.4117647	324.497992	448.8888889	616.5322581	817.3684211	837.9167892	9.885957978	84.75827948	0.667355142	1.143110083
CC04_01 - 34	1910	19	91.62303665	155.3133515	193.3124347	216.0583942	227.8481013	188.7445887	69.08045977	203.2679739	212.2413793	269.816273	370.5882353	494.37751	650	835.483871	1031.578947	6.641920591	5.074970384	1.308760463	0.352440031	0.943545 65

Concordant samples REE data for Wununmantyala Sandstone, normalised to chondrite values from Taylor and McLennan (1985).

Analysis	Age	Error	Concordance	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Lu/La	Lu/Gd	Gd/La	Eu*	Ce*
CC04_06-14	2022	31	103.016815	#VALUE!	5.360501567	0.156934307	0.829817159	4.805194805	1.252873563	31.79738562	64.48275862	129.6587927	232.8235294	376.3052209	535.8333333	708.8709677	939.7368421	#VALUE!	29.55390274	#VALUE!	0.068455821	180.6142669
CC04_06-8	2092	19	101.7686424	0.177111717	9.268547544	2.423357664	6.258790436	31.6017316	7.586206897	99.01960784	168.9655172	278.7401575	447.0588235	658.2329317	897.2222222	1076.612903	1326.315789	7488.582996	13.39447629	559.0799397	0.116155705	9.877955361
CC04_06-6	1870	22	101.7112299	0.201634877	9.968652038	4.941605839	11.56118143	58.57142857	9.045977011	183.6601307	301.5517241	495.5380577	815.6470588	1191.164659	1592.222222	1853.629032	2334.210526	11576.42248	12.70940251	910.8549726	0.074688674	4.719570204
CC04_06-15	2047	12	100.9770396	2.098092643	24.45141066	17.51824818	24.05063291	60.60606061	48.96551724	131.0457516	184.3103448	285.3018373	440	662.248996	942.2222222	1215.322581	1536.842105	732.4948735	11.7275233	62.45946864	0.51098413	1.916236376
CC04_06-9	1835	24	100.0544959	0.166212534	4.357366771	2.627737226	3.108298172	16.92640693	6.32183908	73.20261438	157.5862069	314.6981627	572.9411765	926.9076305	1394.444444	1835.483871	2378.947368	14312.68335	32.4981203	440.4157291	0.140284206	1.961475658
CC04_06-43	1753	27	100	0.046321526	7.115987461	0.95620438	2.897327707	20.73593074	11.63218391	79.11764706	132.2413793	226.2467192	373.7647059	563.0522088	785.2777778	1059.677419	1341.842105	28968.0031	16.96008609	1708.010381	0.23298482	22.54921029
CC04_06-22	1730	21	99.94219653	5.504087193	64.4723093	33.64963504	45.56962025	126.8398268	111.0344828	211.4379085	238.4482759	328.3464567	447.0588235	667.4698795	1025	1580.645161	2347.368421	426.4773319	11.10192793	38.41470912	0.656469351	2.594704585
CC04_06-2	2713	20	99.48396609	0.174386921	11.02403344	3.189781022	6.357243319	28.3982684	24.82758621	100.3267974	158.4482759	291.0761155	484.2352941	751.8072289	1067.222222	1370.967742	1816.842105	10418.45395	18.10924053	575.3114788	0.385745947	6.887912418
CC04_06-18	1876	34	99.14712154	0.294277929	8.254963427	3.306569343	4.82419128	21.9480595195	13.44827586	75.49019608	137.4137931	247.7690289	423.0588235	643.373494	941.3888889	1198.387097	1586.842105	5392.324561	21.02050581	256.52687	0.276036898	3.642372875
CC04_06-26	2434	30	95.89153657	0.629427793	32.60188088	8.160583942	13.99437412	51.81818182	39.77011494	125.1633987	158.6206897	232.5459318	335.7647059	463.4538153	617.5	847.1774194	1068.421053	1697.448166	8.536209977	198.8526724	0.449426599	6.850995204
CC04_06-38	2593	27	95.71924412	0.40599455	36.57262278	4.01459854	6.497890295	30.95238095	29.31034483	82.67973856	93.96551724	165.3543307	210.5882353	267.8714859	427.2222222	625	947.3684211	2333.451077	11.45828999	203.6474097	0.515881336	14.74498166
CC04_0	1776	34	95.66441441	0.163487738	12.52873563	3.065693431	3.361462729	16.49350649	10.11494253	55.55555556	84.82758621	155.1181102	260.2352941	404.4176707	563.8888889	764.516129	1010.789474	6182.662281	18.19421053	339.8148148	0.280779298	4.481032555

6-39																						
CC04_06-30	1833	20	94.8172395	2.207084469	30.1985371	25.47445255	33.19268636	93.07359307	77.01149425	193.1372549	215.5172414	302.3622047	404.7058824	532.5301205	731.3888889	951.6129032	1191.578947	539.8882391	6.16959658	87.50786734	0.538145181	1.544609095
CC04_06-55	1832	42	94.59606987	0.307901907	23.22884013	3.649635036	4.416315049	18.61471861	15.97701149	53.26797386	80.68965517	143.3070866	249.0588235	373.4939759	547.5	754.8387097	1005.789474	3266.590592	18.88169196	173.0030655	0.444530135	7.701737243
CC04_06-16	1774	32	93.96843292	4.741144414	30.92998955	40.94890511	57.52461322	146.7532468	118.3908046	317.6470588	420.6896552	575.0656168	808.2352941	1041.767068	1380.555556	1600.806452	1978.947368	417.3986691	6.230019493	66.9979716	0.509865317	1.061081866
CC04_06-34	1831	26	91.42545057	1.901907357	22.25705329	26.42335766	36.56821378	124.6753247	120	241.503268	256.3793103	342.2572178	384.7058824	449.7991968	639.1666667	862.0967742	1112.631579	585.0082944	4.607107756	126.979512	0.655417888	1.16572311
CC05_12-61	1712	39	101.9859813	#VALUE!	4.367816092	0.321167883	0.984528833	6.753246753	4.183908046	34.18300654	60.86206897	115.2230971	203.7647059	306.0240964	445.2777778	590.7258065	808.9473684	#VALUE!	23.6651907	#VALUE!	0.204410893	41.68968029
CC05_12-57	1744	33	101.662844	0.027247956	7.931034483	0.766423358	1.786216596	10.51948052	5.724137931	44.34640523	86.20689655	154.5931759	281.8823529	439.7590361	614.7222222	855.6451613	1081.578947	39693.94737	24.3893263	1627.513072	0.208659274	24.11717832
CC05_12-111	1748	22	101.6590389	0.028337875	26.09195402	0.948905109	2.756680731	15.19480519	7.402298851	46.99346405	82.06896552	144.0944882	237.5294118	374.6987952	566.9444444	765.7258065	1038.421053	36644.28138	22.09713784	1658.327049	0.238060938	79.88173792
CC05_12-49	1735	26	101.2103746	0.19346049	33.84535005	6.350364964	13.08016878	42.42424242	36.66666667	81.04575163	111.5517241	170.3412073	277.7647059	460.2409639	670	986.2903226	1361.315789	7036.660489	16.79688031	418.9266317	0.593936477	10.97779173
CC05_12-16	1736	29	101.2096774	0.103814714	27.30407524	0.941605839	2.503516174	14.28571429	8.344827586	44.80392157	80.34482759	131.496063	219.2941176	336.5461847	500.8333333	679.8387097	876.8421053	8446.221854	19.5706553	431.5758324	0.282446404	77.09737424
CC05_12-87	1754	28	101.0832383	#VALUE!	13.53187043	0.437956204	1.364275668	11.86147186	9.149425287	50.4248366	87.75862069	158.7926509	276.5882353	434.939759	650	881.0483871	1231.578947	#VALUE!	24.4240543	#VALUE!	0.293786083	96.24952562
CC05_12-92	1774	30	100.8455468	#VALUE!	14.92163009	0.481751825	2.025316456	12.42424242	4.735632184	52.18954248	90	162.7296588	272.1176471	423.2931727	600	795.9677419	1090.526316	#VALUE!	20.89549484	#VALUE!	0.14658272	130.2154225

CC05_12 - 5	1764	27	100.7369615	0.122615804	12.57053292	3.343065693	7.004219409	22.81385281	17.81609195	61.60130719	96.37931034	159.5800525	241.6470588	354.2168675	533.8888889	707.6612903	921.0526316	7511.695906	14.95183582	502.3928831	0.422106455	7.878133847
CC05_12 - 73	1866	35	100.6966774	#VALUE!	3.214211076	0.430656934	1.715893108	10.82251082	4.149425287	42.97385621	72.4137931	124.4094488	206.8235294	300	441.9444444	573.3870968	771.8421053	#VALUE!	17.96073644	#VALUE!	0.154264145	29.73733137
CC05_12 - 75	1753	30	100.6845408	1.076294278	32.82131661	1.919708029	3.5302391	15.23809524	8	46.73202614	75.86206897	135.1706037	226.3529412	333.3333333	493.0555556	664.1129032	884.4736842	821.7768155	18.92649982	43.41937619	0.258188941	31.44052264
CC05_12 - 79	1895	33	100.5277045	#VALUE!	42.60188088	0.547445255	1.533052039	9.220779221	5.24137931	30.52287582	50.34482759	88.45144357	154.3529412	241.7670683	377.2222222	556.4516129	739.7368421	#VALUE!	24.23548969	#VALUE!	0.2637593	217.9236069
CC05_12 - 77	1786	25	100.4479283	#VALUE!	7.36677116	0.200729927	0.843881857	6.926406926	1.919540230	37.02614379	68.27586207	130.9711286	238.3529412	356.2248996	526.1111111	706.4516129	899.7368421	#VALUE!	24.30004181	#VALUE!	0.087346022	154.2888619
CC05_12 - 100	1791	26	100.4466778	0.277929155	16.92789969	7.372262774	15.33052039	42.42424242	22.87356322	81.69934641	119.4827586	187.664042	281.7647059	420.4819277	574.4444444	715.3225806	869.4736842	3128.400413	10.64235789	293.9574523	0.3685611	4.774834913
CC05_12 - 3	2489	17	100.4419446	2.588555858	20.07314525	5.474452555	10.12658228	28.74458874	13.44827586	70.58823529	99.82758621	165.3543307	264.3529412	398.7951807	610.2777778	848.3870968	1150	444.2631579	16.29166667	27.26934985	0.270772043	6.782611319
CC05_12 - 83	1874	46	100.3201708	0.174386921	36.99059561	3.883211679	11.80028129	41.2987013	33.44827586	96.69934641	123.9655172	178.2152231	245.8823529	320.8835341	428.8888889	524.5967742	664.2105263	3808.832237	6.868821259	554.5103145	0.484764479	28.94686622
CC05_12 - 112	2117	28	100.1889466	#VALUE!	1.483803553	0.503649635	2.011251758	14.15584416	2.183908046	66.83006536	127.7586207	255.3805774	430.4705882	656.2248996	975.5555556	1248.387097	1583.157895	#VALUE!	23.6893064	#VALUE!	0.053933037	11.7648338
CC05_12 - 113	1743	25	100.1147447	0.034332425	7.199582027	1.124087591	2.672292546	11.16883117	6.735632184	36.07843137	65.68965517	132.5459318	223.7647059	342.9718876	520.8333333	695.9677419	907.3684211	26428.9056	25.14988558	1050.855898	0.285122643	15.22618061
CC05_12 - 88	1763	28	100.113443	0.188010899	12.28840125	7.00729927	12.29254571	36.92640693	25.63218391	65.68627451	88.62068966	138.32021	220.9411765	336.5461847	488.8888889	654.8387097	890	4733.768116	13.54925373	349.3748224	0.499590958	3.076350991
CC05_12 - 48	1796	29	100.0556793	35.42234332	79.41483804	40.1459854	45.99156118	72.72727273	46.09195402	108.8235294	140	197.3753281	281.1764706	409.2369478	575	759.2741935	989.4736842	27.93360324	9.092460882	3.072171946	0.507758197	2.266186605
CC05_1	2491	26	99.71898836	0.177111717	29.46708464	4.97810219	13.98030942	51.08225108	51.37931034	129.4117647	166.2068966	253.2808399	387.0588235	561.8473896	833.3333333	1125	1534.210526	8662.388664	11.85526316	730.678733	0.569318713	16.62364819

2-26																						
CC05_12-80	1868	22	99.67880086	1.171662125	60.18808777	31.38686131	59.07172996	153.6796537	122.9885057	202.6143791	215.5172414	251.9685039	329.4117647	441.3654618	669.4444444	935.8870968	1210.526316	1033.170135	5.9745 33107	172.9290166	0.690376456	3.609062961
CC05_12-18	1754	27	99.6009122	0.504087193	21.29571578	12.62773723	25.17580872	73.59307359	60.34482759	156.8627451	207.4137931	329.9212598	535.2941176	793.5742972	1159.444444	1592.741935	2086.842105	4139.843528	13.30361842	311.18177	0.523699752	3.362208178
CC05_12-90	1776	28	99.54954955	0.177111717	7.753396029	3.883211679	9.142053446	33.50649351	19.1954023	103.9215686	165.6896552	270.0787402	422.8235294	617.2690763	832.5	1018.145161	1326.052632	7487.097166	12.7601291	586.7571644	0.279352004	4.700603213
CC05_12-72	2563	25	99.41474834	0.023433243	30.07314525	1.072992701	3.614627286	18.57142857	12.51724138	62.48366013	97.24137931	157.480315	249.5294118	344.9799197	494.7222222	655.6451613	832.1052632	35509.60832	13.31716582	2666.453868	0.308857632	94.4167048
CC05_12-22	2001	27	99.25037481	0.046049046	5.872518286	1.328467153	2.433192686	8.917748918	4.655172414	33.07189542	64.82758621	129.9212598	240.4705882	389.1566265	577.2222222	822.1774194	1084.473684	23550.40486	32.79139796	718.1884983	0.221729547	8.096535763
CC05_12-46	1759	39	98.976 6913	0.141689373	10.17763845	4.036 49635	10.12658228	48.398 2684	22.413 7931	153.2679739	255.5172414	412.0734908	660	941.7670683	1261.111111	1585.887097	1963.157895	13855.36437	12.80866345	1081.7182	0.222286019	6.325586319
CC05_12-78	2069	25	98.93668439	0.025340599	6.729362591	1.116788321	2.23628692	8.354978355	8.620689655	23.88888889	40.86206897	75.85301837	144.7058824	242.5702811	421.9444444	691.1290323	1118.421053	44135.54046	46.81762546	942.7120669	0.534718096	12.06590012
CC05_12-15	1836	29	98.36601307	0.247956403	13.76175549	7.116788321	15.21800281	51.2987013	28.04597701	122.2222222	172.7586207	257.480315	363.5294118	474.6987952	628.8888889	790.3225806	942.1052632	3799.479468	7.708133971	492.9181929	0.323257581	4.134884664
CC05_12-63	1751	34	97.20159909	0.155313351	7.628 00418	4.525547445	8.298171589	61.03896104	83.90804598	166.6666667	196.5517241	267.7165354	369.4117647	506.0240964	680.5555556	810.483871	1047.368421	6743.582641	6.284210526	1073.099415	0.73698702	3.090658983
CC05_12-65	1768	23	97.11538462	0.147138965	14.76489028	4.890510949	9.563994374	27.92207792	20.34482759	74.50980392	113.9655172	193.175853	314	464.6586345	689.1666667	884.2741935	1157.894737	7869.395712	15.5401662	506.3907044	0.397236236	5.904200061
CC05_12-74	2543	18	96.97208022	0.596730245	28.97596656	11.60583942	22.9254571	73.76623377	55.63218391	121.5686275	137.2413793	199.4750656	273.4117647	390.7630522	591.1111111	779.4354839	1036.842105	1737.539053	8.528862479	203.7245949	0.569608349	4.931770076
CC05_1	1792	24	96.76339286	0.190735695	8.411703239	5.204379562	10.71729958	34.5021645	27.81609195	86.2745098	131.3793103	212.0734908	344.4705882	493.9759036	704.7222222	887.5	1134.473684	5947.883459	13.14958134	452.32493	0.460620267	3.328368382

2-23																						
CC05_12-104	1786	28	95.80067189	0.926430518	41.37931034	28.32116788	56.11814346	138.0952381	99.08045977	217.3202614	262.0689655	392.9133858	578.8235294	817.6706827	1144.166667	1466.129032	1802.631579	1945.781734	8.294815987	234.5780469	0.557547208	2.895104379
CC05_12-39	1851	27	95.67801189	0.626702997	8.474399164	15.18248175	32.77074543	104.7619048	76.32183908	192.8104575	240.6896552	341.7322835	497.6470588	685.1405622	905.8333333	1143.951613	1402.631579	2238.112128	7.274665477	307.6584257	0.512963223	1.204785414
CC05_12-69	2600	15	93.69230769	1.14986376	34.44096134	30.1459854	55.55555556	146.7532468	114.8275862	203.2679739	224.4827586	272.9658793	346.3529412	433.7349398	608.6111111	756.0483871	955.7894737	831.2197556	4.702115417	176.7757024	0.656117855	2.105444468
CC05_12-98	1811	26	92.65599117	1.245231608	31.5569488	49.7810219	107.8762307	348.4848485	267.816092	424.8366013	422.4137931	419.9475066	435.2941176	479.5180723	586.1111111	721.7741935	955.2631579	767.1369342	2.24854251	341.1707498	0.692638468	1.373730397
CC05_12-95	1773	31	90.24252679	166.2125341	179.7283177	175.1824818	175.8087201	242.4242424	136.7816092	330.0653595	400	511.8110236	752.9411765	983.935743	1266.666667	1528.225806	1907.894737	11.47864538	5.780354351	1.985803064	0.477848362	1.029616686