UNIVERSITY OF OKLAHOMA

GRADUATE COLLEGE

DEPOSITIONAL HISTORY AND PROVENANCE ANALYSIS OF THE PERMIAN-AGED GARBER SANDSTONE, CENTRAL OKLAHOMA

A THESIS

SUBMITTED TO THE GRADUATE FACULTY

in partial fulfillment of the requirements for the

Degree of

MASTER OF SCIENCE

By

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Norman, Oklahoma

2023

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DEPOSITIONAL HISTORY AND PROVENANCE ANALYSIS OF THE PERMIAN-AGED GARBER SANDSTONE, CENTRAL OKLAHOMA

A THESIS APPROVED FOR THE UNIVERSITY OF OKLAHOMA

SCHOOL OF GEOSCIENCES

BY THE COMMITTEE CONSISTING OF

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DEDICATION

I would like to dedicate this work to my parents, Jann and Michael Callahan, for their continued support and encouragement. My success is as much a reflection of you as it is of me—thank you for always believing in me.

ACKNOWLEDGMENTS

First, I want to thank my advisor Dr. Michael Soreghan. I am so grateful for Mike's expertise and guidance that has been invaluable to me over the last two years. I have learned to be a better geologist and researcher because of Mike's continued encouragement. I also want to thank Dr. Lynn Soreghan and Dr. Carla Eichler for serving on my committee and for their continued willingness to help me improve as a researcher. I feel very lucky to have a committee of such kind and intelligent individuals that challenged me and made me a better geologist.

I have deep gratitude for the all members in the Soreghan research group as they helped me sharpen my presentation skills over the last two years. I specifically want to thank Alicia Mount and Steve Adams for helping me with various aspects of field work, lab work, data interpretations, and figure creation. Thank you for lending me your valuable time and advice even during your busiest moments.

The completion of research presented in this master's thesis owes special thanks to the University of Arizona LaserChron Center for assistance with detrital zircon processing and analyses. I am also thankful to the Oklahoma Petroleum Information Center staff, particularly Vyetta Jordan and Jeffrey Dillon, for helping me with core preparation and sampling. Lastly, this research was made possible by partial funding from NSF IRES Grant 17000083.

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ABSTRACT

The Lower Permian Kungurian (Leonardian) Garber Sandstone records a time of profound climatic and tectonic transition in central Pangea with the collapse of an icehouse climate, inception of Pangean monsoonal circulation, and the terminations of the Wichita, Ouachita, and Arbuckle regional uplifts. The source, transport direction, and environment of deposition of the Garber Sandstone in central Oklahoma remains poorly understood. Previous interpretations of this unit range from deltaic to fluvial to shallow/marginal marine. Regional studies of Late Paleozoic sediment dispersal are limited for the Early Permian due to lack of outcrops within and particularly east of the Midcontinent. To rectify this information gap, this study utilizes six new U-Pb detrital zircon geochronology analyses from the Garber Sandstone supported by sandstone petrography, paleocurrent data, grain size analysis, and outcrop and core-based facies analyses to assess trends in sediment provenance and depositional processes along strike of an approximately 435 km outcrop belt. Facies from core and outcrop observations show a predominance of cross bedded, massive, and ripple and planar laminated sandstone that likely represent a sandy, ephemeral fluvial system. A continental fluvial system is further supported by analysis of a core in the central outcrop belt that exhibits abundant macroscopic and microscopic pedogenic features. The Garber Sandstone is highly quartzose with minor sedimentary and low-grade metamorphic lithic fragments. Detrital zircon analysis suggests Paleoproterozoic (1800-1600 Ma), Mesoproterozoic (1300-925 Ma), and Neoproterozoic (790-570 Ma) age populations are present and are interpreted to represent Yavapai-Mazatzal, Peri-Gondwanan, Grenville, and Appalachian sources. Further, there is very little difference among the sandstone mineralogy or detrital

zircon age spectra across the outcrop belt, suggesting a well-mixed, single source fluvial system.

Ultimately, the Ouachita fold and thrust belt and possibly reworked strata from the Arkoma basin are interpreted as the primary source for the Garber Sandstone based on detrital zircon geochronology and sandstone petrography. This is also supported by limited paleocurrent data that indicate transport directions from the southeast. Notably, zircon grains with 1600-1800 Ma ages prove difficult to constrain and may represent a source from the Sabine block to the southeast or Yavapai-Mazatzal provinces to the west. The results of this study bear importance on paleogeographic interpretations and sediment dispersal trends in Oklahoma with broader implications for the Midcontinent during the Early Permian. This study agrees with more recent paleogeographic interpretations that the Permian seas retreated from Oklahoma by the Kungurian producing an arid continental interior and suggests seasonal drainage from the Ouachita highlands to the southeast. This further implies that the Ouachita fold and thrust belt was likely still a highland even as other studies suggest regional uplifts such as the Wichita uplift were subsiding and buried by this time.

INTRODUCTION

Oklahoma's Permian clastic "red beds" provide a window into a unique time in earth history. The stratigraphy records a transient time characterized by profound climatic and tectonic changes across the North American Midcontinent, which was located in west-central Pangaea during the Permian (Fig. 1). By the Early Permian, the Late Paleozoic Ice Age was collapsing, and climate shifted towards intense aridification of the continental interior of Pangea (Montañez & Poulsen, 2013; Soreghan et al., 2023) as the global climate regime evolved from an icehouse to a greenhouse state. Megamonsoonal circulation was also well developed by this time, creating strongly seasonal conditions in west-central Pangea (Parrish, 1993; Soreghan et al., 2002). Permian clastic red beds in central Oklahoma act as a rich archive of this climate change, and widespread and localized tectonic events, such as the Wichita, Arbuckle, and Ouachita orogenies that initiated in the Mississippian and Pennsylvanian and ended by the Early Permian (Perry, 1989). The formation of Pangea and thus the associated Alleghenian-Ouachita orogenies ceased by the end of the Pennsylvanian and several of the regional uplifts that defined Oklahoma's Early Permian landscape were undergoing rapid burial (Soreghan et al., 2012). During the Kungurian, Oklahoma was paleoequatorial with Pangea drifting slowly northward throughout the Permian (Fig. 1; Scotese, 2021). As noted by other studies, the shift in climate conditions in the Midcontinent, specifically Oklahoma, correlates to a change in deposition from marine cyclothem deposits to widespread red bed deposition (Tabor and Poulsen, 2008; Sweet et al., 2013; Giles et al., 2013; Foster et al., 2014). Within Oklahoma, several red bed deposits, including the Wellington Formation, the Flowerpot Shale, and the Dog Creek Shale have all been reinterpreted as potential

massive loessite and mudflat deposits due to aridifcation enhancing eolian transport as opposed to previous suggestions of marginal to shallow marine (Sweet et al., 2013; Giles et al., 2013; Foster et al., 2014; Soreghan et al., 2018). These studies focused largely on very fine grained clastic and evaporite deposits as well as paleosols. The Garber Sandstone, which lies stratigraphically between these units, possesses a different sedimentological character as the unit consists primarily of sand and contains no evaporites.

This study focuses on analysis of the Lower Permian Garber Sandstone through facies observations and provenance datasets. The Garber Sandstone is Kungurian aged with a recent study placing the approximate depositional age at ~281 Ma (Thomas et al., 2021). The objectives of this study are to address 1) the depositional setting of the Garber Sandstone in central Oklahoma and 2) determine the major provenance sources and transport pathways of siliciclastic sediment. Understanding the depositional model and sediment provenance bears importance on the paleogeography and sedimentation controls of central Oklahoma and the broader Midcontinent during the Early Permian. Additionally, as a key component of the Central Oklahoma Aquifer, understanding the depositional history of the Garber Sandstone aids in predicting facies and grain size distribution—both of which can impact hydrogeologic properties of an aquifer such as permeability, porosity, and ultimately flowpaths (Mashburn et al., 2013).

Oklahoma Permian Red Bed Controversies

Extensive literature on the Garber Sandstone exists in the form of United States Geological Survey (USGS) reports concerning the geochemistry and hydrologic properties of the Garber Sandstone; however, very little recent literature exists on the

depositional model and provenance of the Garber Sandstone. The first mention of a depositional environment for the Garber occurs in a paper in which the author asserts a deltaic depositional environment based on field observations of lenticular sandstone bodies being interbedded with sandy shales (Patterson, 1933). Tanner (1959) suggested an epeiric sea covered central Oklahoma and that sea-level fluctuations in the Early Permian may have created marginal marine deposits, citing the prevalent cross beds in the Garber as evidence for being a littoral environment. The same study also states that a deltaic environment likely existed in central Oklahoma and a lagoonal/barrier island environment farther east (Tanner, 1959). More recent studies cite these previous interpretations and accept a deltaic interpretation. For example, a USGS report states that all Permian rocks in central Oklahoma were deposited in a "large fluviatile system" and associated delta environment (Mosier and Bullock, 1988). Breit (1998) assesses mineral textures of all Permian units in the Central Oklahoma Aquifer to understand previous seawater and freshwater interactions and concurs with Tanner (1959) that central Oklahoma Permian units were deposited in some combination of shallow coastal marine with fluvial and deltaic input due to mineral growth suggesting both seawater and freshwater interaction (Breit, 1998). A paleontological study by Olson (1967) found that the terrestrial vertebrate fossils in the mudstone of the lower Garber suggest a freshwater river system and could not be marine. Though many sources cite a deltaic or marginal marine setting for the Garber Sandstone there is a lack of characteristics such as marine fossils, heterolithic bedding, or indications of bidirectional currents. In 2005, a new hypothesis for a depositional model was introduced in an Oklahoma State University master's thesis which proposes a meandering fluvial system as the main mode of

deposition (Kenney, 2005). This hypothesis is supported by the presence of unidirectional ripples, cross bedding, and abundant amalgamated channels with some showing evidence of lateral migration (Kenney, 2005). However, fluvial systems are complex, and the study area only included outcrops around Lake Thunderbird providing a limited view of the Garber outcrop belt. This study hopes to rectify this information gap by conducting sedimentologic and provenance analysis covering a greater portion of the Garber outcrop belt in central Oklahoma.

GEOLOGIC BACKGROUND

Paleogeography and Tectonic Overview

Permian paleogeography within west-central Pangaea was largely controlled by far-field compressive forces caused by the collision of Gondwanaland and Larussia (Laurentia and Baltica) forming Pangea and giving rise to the Appalachian-Ouachita-Marathon orogeny and the uplift of the Central Pangean Mountains (CPM) (Scotese, 2021). The Ouachita orogeny (Late Mississippian-Middle Pennsylvanian) created the Ouachita fold-thrust belt in southeastern Oklahoma and initiated subsidence to the north in the adjacent Arkoma foreland basin (Fig. 1; Arbenz, 1989; Whitaker and Engelder, 2006). The Ouachita Mountains potentially act as important highlands for contributing to sediment dispersal across Oklahoma in the Late Paleozoic. Some of the oldest studies to investigate sediment routing in Oklahoma during the Pennsylvanian to Early Permian suggested a pathway from the southeast due to the presence of chert pebbles in Permian red beds that resemble novaculite only found in the Ouachita Mountains (Oakes, 1947; Chenoweth, 1959). Modern studies have attempted to further constrain sediment pathways at large spatial scales across the North American Midcontinent in the Late

Paleozoic with paleocurrent data and detrital zircon geochronology suggesting both axial and transverse flow through the Appalachian foreland basin toward the southwest margin of Pangea (Chapman and Laskowski, 2019; Lawton et al., 2021).

The formation of the Ancestral Rocky Mountains (ARM) west of Oklahoma began in the Early Pennsylvanian as the continued collision to form Pangea caused widespread intracratonic deformation and block uplifts along high-angle reverse faults (Kluth and Coney, 1981); onlapping of lower Permian strata across these faults confirm uplift ceased by then, likely due to widespread load-induced subsidence in the Early Permian (Fig. 1; Soreghan et al., 2012). Recent work suggests that the Ouachita-Marathon compressive forces are minor in forming the ARM, and transpressional and convergent forces verging to the northeast and east from the southwestern margin account for most of the deformation uplifting the ARM (Leary et al., 2017). The Wichita Mountains, part of the ARM in Oklahoma, similarly formed due to the far-field compressive forces inverting extensional structures of the Southern Oklahoma Aulacogen (SOA) and exposing Cambrian igneous rocks that formed during the SOA rifting event (Ham et al., 1965; Gilbert, 1992; Soreghan et al., 2012; Price, 2016) related to the opening of the Iapetus Ocean (Thomas, 2011). Post rifting, the region experienced thermal subsidence as shallow seas covered Oklahoma, depositing carbonate and clastic sequences until the Late Mississippian when inversion of the Cambrian structures led to uplift and flexural induced subsidence to the north, forming the Anadarko basin that accumulated very thick Pennsylvanian strata (Perry, 1989; Johnson et al., 1989; Soreghan et al., 2012). Epeirogenic subsidence took over by the Early Permian with the cessation of far-field compression, and the Anadarko basin and surrounding highlands underwent

rapid subsidence effectively burying Permian landscapes under as much as 2.5 km of sediment (Soreghan et al., 2012).

The Arbuckle orogeny is a regional tectonic event that also occurred along the Southern Oklahoma Fault System in the Late Pennsylvanian when basement cored block uplifts exhumed Cambrian igneous rocks of the SOA (Thomas et al., 2012) and older Mesoproterozoic granites. Overlying passive margin Cambrian-Mississippian strata are also uplifted and folded in the Arbuckle Mountains (Thomas et al., 2016). In north-central Oklahoma, the narrow low relief Precambrian Nemaha Uplift is a heavily faulted ridge that formed in association with the Midcontinent Rift System that was briefly exposed in the Mississippian and subsequently buried (Fig. 1; Dolton and Finn, 1989; Xie et al., 2016).

Late Paleozoic Paleoclimate

The Late Paleozoic is marked by major changes in climate caused by Gondwanan ice sheets waxing and waning that characterize the Late Paleozoic Ice Age (LPIA) and impact associated stratigraphy worldwide (Veevers and Powell, 1987; Montañez and Poulsen, 2013; Qie et al., 2019). Additionally, the presence of the CPM along the equator during the Late Pennsylvanian and Early Permian acted to reroute moist equatorial air, forming an arid rain shadow to the northwest of the CPM where Oklahoma was located (Scotese, 2021). Proposed—and non-exclusive—mechanisms for initiating the onset of the LPIA include: 1) the expansion and colonization of land plants during the Devonian, which led to increased coal formation and carbon burial in the Carboniferous, 2) the closure of the Rheic gateway rerouting warm ocean waters towards southern

Gondwanaland for enhanced precipitation, 3) explosive volcanism that would have reduced incoming solar radiation, and 4) increased silicate weathering during uplift and erosion of the CPM (Saltzman, 2003; Montañez and Poulsen, 2013; Goddéris et al., 2017; Soreghan et al., 2019; Qie et al., 2019).

The LPIA began in the Middle Mississippian with the formation of peripolar ice sheets in southern Gondwanaland and began to collapse during the Early Permian in western Gondwanaland with eastern parts of the ice sheet persisting until the Middle Permian (Fielding et al., 2008; Montañez and Poulsen, 2013). Peak glaciation is diachronous with ice sheets reaching their maximum in the Middle Pennsylvanian and regrowing across the Pennsylvanian-Permian boundary with another ice extent maximum occurring in the Asselian (Fielding et al., 2008; Montañez and Poulsen, 2013; Soreghan et al., 2019). Rapid deglaciation has often been paired with an interpretation of increased aridification in the equatorial regions of Pangea which was enhanced by a transition from zonal to monsoonal circulation (Parrish, 1993; Soreghan et al., 2002).

Evidence for hypothesized monsoonal circulation in the North American Midcontinent starting in the Asselian is corroborated by zircons sourced from Midcontinent loessite beds that indicate both easterly and westerly winds were well-developed and providing eolian sediment to the region (Fig. 1; Soreghan et al., 2002). Loessite deposits in northeastern New Mexico and Oklahoma commonly occur in strata exhibiting vertic paleosol features that reflect marked seasonality and aridity (Kessler et al., 2001; Giles et al., 2013; Foster et al., 2014). A comprehensive study of Late Pennsylvanian to Early Permian paleosols across the Midcontinent found a strong shift from humid ever-wet climates to strong seasonal arid climates (Tabor et al., 2008).

Oklahoma exhibits the greatest change in paleosol morphology as Pennsylvanian paleosols are largely gleyed argillisols and histosols with a sharp transition in the Early Permian to calcic vertisols, calcic argillisols, and calcisols (Tabor et al., 2008). A comprehensive review of Late Paleozoic sediment dispersal and paleogeography highlights a recession of the interior seaway out of Oklahoma by the Early Permian and names the area the Western Interior Desert (WID) due to the thick loessite and mudflat deposits (Lawton et al., 2021). Thus, the Kungurian Garber Sandstone provides a window into deposition within the WID during this transitional time of Gondwanan deglaciation, increased equatorial aridification, and seasonal monsoonal circulation in the North American Midcontinent.

Study Area and Stratigraphic Overview

Lower Permian red beds in Oklahoma tend to crop out in a roughly north-south trending line with the Garber Sandstone grading into the Ninnescah Shale in southern Kansas and curving towards the west south of the Wichita Mountains dipping into the subsurface near the Texas border (Fig 2; Norton, 1937; Wood and Burton, 1968). Lower Permian units crop out east of Oklahoma City with the units progressively younging towards the west due to the regional shallow westward dip of ~1˚ until they become buried by younger Middle Permian strata in the Anadarko basin (Johnson et al., 1989; Soreghan et al., 2012; Kushner et al., 2022).

Late Carboniferous (Pennsylvanian) stratigraphy across the North American Midcontinent is dominated by cyclothems formed by glacioeustatic sea level changes (Heckel, 2008; Fielding, 2021). Alternating carbonate and clastic sequences are recognized in the lowest part of the study area in the Gzhelian Vanoss Formation (Fig.

2A). The Vanoss Formation is characterized by red shales, sandstones, conglomerates with limestone clasts, and thinly bedded limestones totaling 75-150 m (McKinley, 1952; Bingham and Moore, 1975). The Lower Permian strata continue to show cyclothemic character as the Admire, Council Grove, and Chase Groups all consist of alternating fine-grained sandstone, shale, mudstone, and limestone that together are 175-285 m thick (Bingham and Moore, 1975; Chaplin, 2004). These strata represent deposition in regressing marine subtidal to peritidal environments transitioning into continental environments (Chaplin, 2004; Johnson et al., 1998) with some of the mudstone units in the Council Grove and Chase showing evidence of paleo-loess/eolian deposition (Soreghan et al., 2018).

The Early Permian Sumner Group records a transition in the stratigraphy from cyclothem sequences to dominantly clastic red beds. The base of the Sumner Group consists of the Wellington Formation which crops out directly east of the Garber and extends northward to southern Kansas (Giles et al., 2013). The Wellington Formation is characterized by anhydrite, dolomite, siltstone, mudstone and sandstone facies that are 75-250 m thick (Chaplin, 2004; Giles et al., 2013; Stanley, 2021). Interpretations for the depositional environment of the Wellington initially suggested lacustrine or marine conditions, but the most recent investigation of the Wellington advocates for a purely continental environment shifting from perennial lake deposition to an ephemeral lake and loess plain (Giles et al., 2013). The contact between the Wellington and Garber is ill defined as it is gradational. Recent mapping projects use the lowest Garber sandstone lithofacies paired with the highest Wellington shale to define the contact; in some areas the lowest Garber conglomerate marks the contact with the Wellington (Stanley, 2021).

The basic lithology of the Garber Sandstone has been described in a series of publications and geologic maps (Patterson, 1933; Aurin et al., 1926; Gromadzki, 2004; Kenney, 2005; Stanley, 2021). The Garber is largely a red-brown to red-orange medium- to very fine-grained friable sandstone that commonly exhibits trough cross-bedding, tabular cross-bedding, and lenticular multistory sand body geometries (Patterson, 1933; Aurin et al., 1926; Gromadzki, 2004; Kenney, 2005; Stanley, 2021). Studies note both the Wellington and Garber become increasingly finer grained towards the north and slightly downdip towards the west as lithologies change from sandstone dominated to progressively being interbedded with more mudstone and shale (Patterson, 1933; Aurin et al., 1926; Wood and Burton 1968). This is also reflected in the topography and vegetation as Wood and Burton (1968) noted hills composed of sandstone outcrops typically have deciduous tree growth, whereas flatter areas underlain by shale tend to be grassy and barren of trees. The Ninnescah Shale is the upper portion of the Sumner Group in Kansas and lies atop the Wellington making it roughly correlative to the Garber. The Ninnescah crops out in the south-central portion of Kansas and rapidly grades into the Garber close to the Oklahoma state line (Norton, 1937). The overall thickness of the Garber varies but recent mapping conducted by Oklahoma Geological Survey staff suggest a thickness of ~25 m in the north (Noble County) to ~320 m in the center (Cleveland County) (Stanley and Miller, 2008; Stanley and Standridge, 2008).

The last unit in the Sumner Group is the Hennessey Shale, which exhibits a gradational contact with the underlying Garber Sandstone (Wood and Burton, 1968). The Hennessey is fairly homogenous and defined by thickly bedded, internally structureless red-brown to red-orange blocky mudstone and siltstone with local conchoidal fracturing

(Aurin et al., 1926; Patterson, 1933; Soreghan et al., 2018). Rare lenses of sandstone and one noted instance of lateral accretion surfaces suggest minor fluvial transport, but the overall lack of channels and massive character suggest mostly eolian deposition as loess (Soreghan et al., 2018). The thickness of the Hennessey is estimated to range between 185-200 m.

METHODS

Field Work

Twenty-two locations (Fig. 2B) across the Garber outcrop belt were studied and sampled for a variety of data including sandstone petrography, grain size, and detrital zircon geochronology analyses as well as outcrop-based facies and paleocurrent observations. Outcrops were sampled to make thin sections to aid facies description and for modal point-counts on sandstones, and for quantitative grain size analyses. Six of the outcrops were sampled for detrital zircon geochronology (Fig 2B). Facies analysis was based on outcrop scale observations aided in some cases by panoramic photographs; however, no large-scale outcrops occur. Overall character of the units, facies and facies associations, internal surfaces, sedimentary structures/bedforms, and grain size were documented for each outcrop. Paleocurrent data was taken where cross beds were prevalent; trough cross beds were assessed using the methods outlined by DeCelles et al., (1983). The Garber Sandstone is not significantly tectonically deformed and dips at very low angles (<1-2˚), so no structural corrections of paleocurrent data were made. Paleocurrent measurements of several Lake Thunderbird outcrops are recorded in a

previous Oklahoma State University master's thesis (Kenney, 2005) and are included in this study.

In the field most large sandstone outcrops occur at the crests of hills, which is corroborated by a GIS analysis of topography and rock type by Belt and Paxton (2005); therefore, a preservation bias may exist towards sand-rich facies in outcrop analysis. In addition, stratigraphic correlation across Permian outcrops in Oklahoma is challenging as outcrops are constrained to road-cuts and because of the low relief and shallow dips (Soreghan et al., 2018). Given these limitations, this study expands upon previous outcrop studies from the historically well-documented Lake Thunderbird area (Kenney et al., 2005) to field sites significantly farther to the north and south, thus allowing a broader analysis of the spatial distribution of facies and provenance sources in the Garber Sandstone.

Core Analysis

Further understanding of lithologic trends is supplemented by the NOTS Hole 3 core (35°40'28.1"N 97°22'49.8"W) drilled by the USGS in Oklahoma County (Fig 2B). The core interval spans 4.5 m to 60 m below ground surface. Another core interval also stored at the Oklahoma Petroleum Information Center (OPIC) labeled Garber with API numbers 35047012180000, 35047012190000, and 35047012200000 was initially examined but the cored interval is too deep in the subsurface to represent the Garber and likely contains the Wellington Formation or Chase and Council Grove Groups and should be disregarded for future studies of the Garber. The quality of the NOTS Hole 3 core ranges from good to poor with large sections of the core being rubble and not intact—particularly the mudstone. Lithologic observations are documented at ~30 cm scale and

hand samples were taken directly from the core boxes of mudstone, but the more indurated sandstone and conglomerate lithologies were slabbed using a water saw for a total of 21 core samples. Nine representative thin sections were made of the different lithologies and other relevant fabrics or features, and eight samples were further processed for grain size.

Laser Particle Size Analysis (LPSA)

Grain size data for 28 outcrop and 8 core samples were obtained after applying a chemical treatment to disaggregate the samples. All samples, including mudstone and shale samples, are generally poorly indurated, and most sandstone samples are easily broken by hand. The most prominent cements present upon inspection of thin sections, as well as noted by Breit (1998), are iron-rich (hematitic) clay and local authigenic calcite that fills pore spaces. The abundance of hematite cement varies across samples, with more cement creating slightly more indurated darker red samples. Basin subsidence curves of the northeastern edge of the Anadarko basin show Kungurian strata being buried to depths <1 km and with burial temperatures <50˚C (Carter et al., 1998) with another study similarly suggesting that the Garber and Wellington were buried to only relatively shallow depths of 0.6 to 0.8 km (Breit, 1998), consistent with minimal burial diagenetic features and cementation.

Disaggregation methods are modified from Jiang and Liu (2011). Samples that did not break down easily by hand were placed into a ceramic mortar and pestle and lightly crushed to roughly granule size and sieved with a .701 mm mesh sieve, so no fine sediment created by crushing was included. About 5 g of sediment was placed in 50 ml

centrifuge tubes and then filled with 30 ml of 0.3 M sodium citrate. The samples were sonicated for 20 minutes, centrifuged for six and half minutes, and decanted. Another 20 ml of sodium citrate was added to the samples along with 2.5 ml of 1.0 M sodium bicarbonate then placed in a 75˚C hot bath for 15 minutes. After removing the centrifuge tubes from the hot bath, 1-2 g of sodium dithionate was added and then returned to the hot bath for an additional 15 minutes; this step is repeated a second time. Depending on the amount of hematite cement the entire CBD treatment was repeated a second time. Once the CBD treatment is completed the samples are rinsed with distilled water three times. All samples were moved to beakers and submerged in ~30 ml of 2 N hydrochloric acid and left loosely covered for 24 hours. A few samples required an additional 24 hours in the acid bath due to persistent calcite cement. The samples were returned to centrifuge tubes and rinsed three times with distilled water.

To avoid clay flocculation samples were sonicated for one minute in ~15 ml of sodium hexametaphosphate dispersant preceding analysis on a Malvern Mastersizer 3000 using the Hydro SM small volume unit. Using an eyedropper ~1 ml of sample suspended in dispersant was added to the wet dispersion unit set to 2,500 rpm until obscuration is within the range of 15-17%. We assume all samples are fully disaggregated due to grain size volume percent curves showing no outlying large size fractions suggesting incomplete disaggregation.

Sandstone Petrography

Twenty-five sandstone samples were collected for point counting of modal mineralogy. Thin sections were impregnated with blue epoxy to preserve integrity of the

highly friable sandstones and to highlight porosity. Thin sections were stained using sodium cobaltinitrite to aid in identifying potassium feldspar. 300 grains per sample were counted using the Gazzi-Dickinson method (Dickinson, 1970; Ingersoll et al., 1984), which is deemed statistically sufficient for petrographic analyses where the lowest relative percentages of a class is around 5% (Dryden, 1931; Van Der Plas and Tobi, 1965). Quartz samples are differentiated between Q_m (monocrystalline quartz), Q_{p2-3} (polycrystalline quartz with 2-3 distinct areas of extinction), and $Q_{p>4}$ (polycrystalline quartz with many areas of extinction). Chert grains are counted as lithics. Results of framework grain percentages are plotted on QFL and Q_mFL_t ternary diagrams to assess provenance sources in relation to tectonic regimes (Dickinson and Suczek, 1979; Dickinson et al., 1983).

Detrital Zircon Geochronology

Roughly 5 kg of sandstone per sample was collected from six fresh outcrop faces spanning the Garber outcrop belt. All samples were processed at the University of Arizona LaserChron Center following standard detrital zircon separation procedures, including rock crushing, magnetic separation, and gravity separation (using Wilfley table and heavy liquids) (Gehrels et al., 2008, 2011). The non-magnetic heavy minerals are mounted on 2.5 cm epoxy disks and polished to expose the interior of the grains (Gehrels et al., 2006, 2008). All samples are mounted with the Sri Lanka (SL 563.5 ± 2.3 Ma), Duluth Gabbro Complex (FC1 1099 ± 2 Ma) and the Vermont Braintree Monzodiorite Complex (R33 419.3 ± 0.4 Ma) standard zircons to aid in calibration of the unknown zircons (Schmitz et al., 2003; Black et al., 2004; Gehrels et al., 2008). Zircon identification is assisted by cathodoluminescence (CL) and backscattered electron (BSE)

imaging on the Scanning Electron Microscope (SEM). BSE images are used to differentiate between zircons and other heavy minerals that may have been mounted and CL images are used to see zonation within zircons for core-rim relationships and provide higher precision for ablating zircon rims as opposed to cores for detrital studies.

A Thermo Element 2 Laser Ablation-Single Collector-Inductively Coupled Plasma-Mass Spectrometer (E2 LA-SC-ICP-MS) was used to obtain U-Th-Pb isotopic ratios and age dates for all samples. All samples proved to have high zircon fertility and 315 analyses were conducted per sample with intermittent standard analyses. Grains were randomly selected to include a variety of sizes and morphologies to avoid potential bias. Grains excluded from analyses included those with inclusions, large cracks, or those smaller than the laser diameter to avoid contamination and erroneous ages (Gehrels et al., 2011). Contaminated surface material is removed preceding analysis using a 40 μm diameter laser to carry out shallow cleaning shots. Zircons were ablated with a 20 μm laser firing at a repetition rate of 7 Hz over 27 seconds per grain and then carried to the E2 mass spectrometer via helium gas. Best ages for grains younger than 900 Ma are calculated using the $^{206}Pb/^{238}U$ decay system due to it being more accurate for younger ages whereas the $^{206}Pb/^{207}Pb$ decay system is used for grains older than 900 Ma (Gehrels et al., 2006, 2008). This cutoff is based on $^{206}Pb/^{207}Pb$ undergoing less Pb loss compared to $^{206}Pb/^{238}U$ which becomes more common in older zircons as well as ^{207}Pb having a low intensity in younger zircons (Gehrels et al., 2006, 2008). All initial data reduction is conducted at the LaserChron Center using AgeCalcML v1.42, a MATLAB based program that produces Concordia plots, weighted means, and calculates ages and associated uncertainties (Gehrels et al., 2008; Sundell et al., 2021). All initial corrections

applied in AgeCalc use SL, FC1, and R33 standards to mitigate effects of depth-related fractionation, apply common Pb correction and fractionation correction, as well as comparing U/Th concentrations to assess discordance in unknowns (Gehrels et al., 2008). Additional data reduction includes removing grains that are >20% discordant and >5% reverse discordant which can likely be attributed to Pb loss for high normal discordance and machine error for reverse discordance. Conservative cutoffs for discordance ensure that biasing towards younger ages does not occur as young populations are less prone to Pb loss compared to older populations (Gehrels et al., 2011). Specifics of E2 instrumentation, calibration to standards, and removal of grains during data reduction are further outlined in Gehrels et al., (2008), Gehrels et al., (2011), Pullen et al., (2018) and Sundell et al., (2021).

Detrital zircon geochronology data is visualized with stacked probability density plots (PDP) and cumulative probability plots made using detritalPy—a Python-based geochronologic data analysis tool that plots detrital age distributions (Sharman et al., 2018). For multi-sample comparison, multidimensional scaling (MDS) plots were created using MATLAB based software DZmds v1.10 (Saylor et al., 2018). A MDS plots dissimilarities between U-Pb age datasets with the Euclidean distance between samples representing disparities across the samples (Vermeesch, 2013). A non-parametric Kolmogorov-Smirov (K-S) test is applied to assess similarities in detrital age spectra signatures; a K-S test was used due to its recent identification as a statistically vigorous method for visualizing nuanced differences across detrital datasets for MDS plots (Vermeesch, 2018).

RESULTS

Facies Analysis

Facies analysis is largely based upon outcrop and core (NOTS Hole 3) observations, as well as thin section observations. The descriptive lithofacies of the Garber Sandstone are outlined in Table 1 and consist of sandstone, mudstone, and conglomerate facies.

Sandstone Lithofacies

Cross-Bedded Sandstone (Sc)

Description–

The cross-bedded sandstone facies is most commonly very fine- to fine- grained with rare instances of medium-grained sand. Trough cross beds are the most common bedform followed by tabular cross beds (Fig. 3). The sand is commonly rounded to subrounded, moderately to well-sorted, and ranges in color from dark red to red-orange and light tan. In thin section, the laminae are defined by an iron cemented clay matrix imparting a red color. Trough sets average ~1m wide and ~20cm tall (Fig. 3A). Troughs are commonly seen in cross-sectional view. However, the outcrop in Figure 3B shows two large plane view troughs. In cross-sectional view the trough cross beds tend to weather to look massive unless a fresh face is exposed (Fig. 3A). Tabular cross beds can be high or low angle and vary in height from ~2 cm to ~30 cm (Fig. 3C, 3D). Observable tabular cross beds tend to persist in cross sectional view even on weathered surfaces (Fig. 3D). Trough cross beds slightly scour into the massive mudstone facies whereas tabular cross beds occur in association with massive sandstone, planar laminated sandstone, and

conglomeratic facies. Trough cross beds occur most commonly in the central portion of the outcrop belt and are not seen in the north and tabular cross beds are distributed across from the center to the north but tend to be smaller and less common in the north.

Interpretation–

The trough and tabular cross beds of the cross-bedded sandstone facies represent the migration of three dimensional sandy bedforms in a unidirectional flow environment under lower flow regime conditions (Miall, 1977). Trough cross beds represent the preservation of crescent-shaped dune trains that have a similar shape to linguoid/lunate ripples but on a larger scale (Allen, 1963). Tabular cross beds are the expression of relatively straight-crested dunes of various sizes (Allen, 1963). The very fine to medium grain size, subangular to subrounded morphology, and moderate sorting and formation of cross-beds indicate these facies were deposited during times of lower energy in the system. The interbedding of these bedforms at outcrop-scale likely reflect changes in flow velocity and may indicate the formation of transverse bars in the center of channel complexes. Transverse bars often have dunes and ripples superimposed atop them and tend to exhibit planar cross bedding caused by downstream stream accretion (Miall, 1977). This geometry is observed in the central portion of the outcrop belt around Lake Thunderbird and Lake Arcadia as there are instances of stacked trough and planar cross beds on the sides that are overlain by rippled beds at the top (Fig. 3C).

Ripple Laminated Sandstone (Sr)

Description–

Ripple cross-laminated sandstones are common in the Garber Formation in cross section but are seen in one plan-view bedding plane (Fig. 4). Small ripple cross-laminations, some displaying climbing patterns, are seen in cross section across most outcrops including instances within core (Fig. 4A). The sand in this facies is very fine- to fine- grained, well-sorted, and subrounded to subangular. Similar to the cross-bedded sandstone facies the ripple laminations are defined by very thin red-orange laminae cemented by an iron oxide mud matrix with light tan sand between laminae being largely uncemented as seen in thin section. Climbing ripples range in size from thinly to thickly laminated and sets range in height from ~2 cm to ~10 cm (Fig. 4B). On one large bedding plane, three ripple types including climbing, asymmetrical and lunate/linguiod ripple trains are observed in plan-view (Fig. 4B, 4C, 4D). The asymmetrical ripples are semi-sinuous crested and occasionally bifurcate and are only ~1 cm tall (Fig. 4C). Lunate/linguoid ripples are highly convex/concave and are also ~1 cm tall with ~8 cm across the concave/convex shapes (Fig. 4D). The ripple laminated facies is commonly associated with the cross-bedded sandstone facies when it is superimposed atop cross beds.

Interpretation–

The asymmetrical nature of the ripples is consistent with a unidirectional-flow origin and the very fine- to fine-grained well-sorted sand is consistent with a lower flow regime. Climbing ripples are typically indicative of rapidly decelerating flow velocity and high sediment supply (McKee, 1966) and commonly occur where the flow leaves channel

confines. Adjacent to the large plan-view climbing ripples is a series of plan-view asymmetrical then linguoid/lunate ripples along the Lake Arcadia shoreline (Fig 4). This association may suggest a rapid decrease in flow conditions. The small ripple cross-laminations seen when weathered outcrops are exposed in cross-sectional view across the outcrop belt are also associated with low flow regime currents moving bedforms downstream under aggradational conditions (Miall, 1977; Burns et al., 2017).

Planar laminated sandstone (Sh)

Description–

The planar laminated facies is very fine- to fine-grained to rarely medium-grained, and is well sorted, and subrounded to subangular. This facies is typically red-orange, light tan, and in rare instances pale green (Fig. 5). The laminations vary in thickness from very thin (0.1cm) to thick (1cm) and can occur in sets up to 1m in thickness occasionally with a "flaggy" appearance (Fig. 5). The laminae are composed of iron oxide cemented sand grains. The planar laminations are typically horizontal and continuous but are locally low angle when associated with sigmoidal and wedge-shaped sand body geometries (Fig. 5A). In one southern outcrop, the low angle laminations exhibit medium grain size and are subtly graded. Parting lineations are observed on some bedding planes of more thickly laminated outcrops (Fig. 5B), but toward the northwest stacked planar sandstones occur without observable parting lineations on bedding planes (5C). These planar sandstones also have instances of pore filling carbonate cement observed in thin section. This facies occurs commonly atop thin erosive conglomerate beds, particularly in the core. In outcrop, this facies tends to occur beneath cross-bedded or rippled sandstone (Fig. 5D).

Interpretation–

Planar horizontal laminated sandstones can represent both upper and lower flow regimes in subaqueous unidirectional flow settings (Miall, 1985), though they are associated with the upper flow regime when grain size is very fine to medium and parting lineations are present (Fielding, 2006). In the Garber Sandstone this facies is thought to represent a laminar high flow regime particularly when there are parting lineations and when occurring directly atop scoured mud-chip conglomerates. This facies suggests upper flow regime conditions and shallow water depths, which is common in regions experiencing enhanced seasonal discharge in ephemeral systems (Miall, 1985). In the northwest thickly laminated sand sheets stacked almost a meter high do not show parting lineations, meaning they could have formed in upper or lower flow regimes. Recent studies have suggested that previous interpretations stating low-flow regime plane beds can only form in sediments with a grain size larger than coarse sand are incorrect and that low-flow-regime plane beds can form even in very fine grain sizes and over a wide range of Froude numbers (Ohata et al., 2022).

Massive Sandstone (Sm)

Description–

The massive sandstone facies is noted in outcrops in the central portion and twice in the northern portion of the outcrop belt (Fig. 6). This facies is fine grained, moderately sorted, with subrounded to subangular grains. The color is typically a light tan to red color with minimal iron oxide cement observed in thin section except for one outcrop that is capped by a potential iron hardpan. The ~10 cm iron hardpan caused leaching of iron oxides into the massive sandstone below giving the grains a thick iron oxide coating and

imparting a deep purple-red color to that portion of the outcrop. The massive sandstone often has a laterally extensive and very thickly bedded (~2 m) tabular to lenticular character as well as occurring locally as thin lenticular sand bodies that are only a few meters (1-3 m) across and 1 m at their thickest (Fig. 6A). The massive sandstone tends to occur as isolated deposits along road cuts or in association with cross-bedded and laminated sandstone facies. In the instances of one Edmond outcrop the massive mudstone facies is topped by the cross-bedded sandstone facies and has both a planar and scoured surface into the top of very thickly bedded massive sandstone at the base of the outcrop (Fig. 6B). In this location the massive sandstone also thins to the north and grades into large tabular cross beds. Well exposed fresh faces of massive sandstone 1-2 m thick and tens of meters across are noted in three instances around Edmond and Lake Arcadia.

Interpretation–

Massive sandstones can represent a variety of flow conditions despite its structureless form. The sediment is moderately sorted, fine-grained, and sometimes amalgamated; this facies may represent a sudden decrease in flow velocity (Sumner et al., 2008). Experimental studies show that structureless sands accumulate in subaqueous regimes when hyperconcentrated flows experience a sudden change from high to low velocities and the sediment rapidly falls out of suspension (Sumner et al., 2008). This requires sediment to be abundant and fine enough to be transported in suspension. This is consistent with the grain size of the massive sandstone facies and with the occurrences of other bedforms, such as large climbing ripples, that suggest abundant sediment supply and high sediment accumulation rates. Another explanation for massive sands is

liquefaction induced deformation caused by bank and bedform failure (Jones and Rust, 1983). In this scenario, unstable channel margins or bedforms collapse and quickly introduce large amounts of sediment into the channel inducing liquefaction of the sediment downstream. These explanations for massive sandstone generally call for transient flow conditions from high to low velocity, are typically associated with waning flood conditions, and require sediment-laden waters that rapidly deposit the sediment out of suspension. It is also possible that weathering artifacts make primary sedimentary structures difficult to see in some highly weathered outcrops. Large outcrops in the central portion of the outcrop belt around Lake Thunderbird have weathered to a darker gray giving the impression of a massive nature, but when a fresh face is created by small erosive slumps it displays cross-bedding and planar laminations, however, in other cases, fresh surfaces of the massive sandstone facies do not exhibit cross beds or other internal structures (Fig. 6).

Massive Mudstone (Fm)

Description–

The massive mudstone facies is typically light red, orange, or light brown and is blocky and friable (Fig.7). The facies exhibits a coarse silt fraction in outcrop as the dominant grain size mode with a secondary mode of very fine sand. The massive mudstone tends to be thickly bedded with most occurrences ~1-1.5m thick. In the southernmost outcrop no mudstone facies are observed. Thickly bedded mudstone is observed in the central and northern outcrop belt; however, sandstone bodies are isolated within the mudstone in one northern outcrop. Mudcracks are also noted by Siemers

(2000) and Kenney (2005) in this facies. In outcrop, the massive mudstone tends to exhibit a slightly scoured upper contact with the cross-bedded sandstone facies overlying.

In core, the mudstone is well-preserved and tends to show subangular blocky peds, nodules, small slickensides, rare bifurcating vertical traces, and a short interval of chaotic bedding (Fig. 8, 7A, 7B). It also is always strongly red to orange, and the modal grain size is 4-5 microns (Fig. 8). Petrographic analysis reveals that the massive mudstone in the core is composed mostly of an orange iron oxide clay matrix with occasional poor to moderately sorted silt-sized angular to subrounded quartz grains floating in the matrix (Fig. 7C, 7D). The subangular blocky ped fracture pattern is common throughout the mudstone and is also observed in thin section (Fig. 7C). Slickensides are small (1-2 cm) and found sporadically throughout the core. There is one occurrence of chaotic bedding that forms a ~20 cm interval near the base of the core and is almost entirely clay with small swirly structures observable in thin section (Fig. 7D). Calcareous nodules (3-8mm) are fairly common and are characterized by a white color, microcrystalline texture, and thin clay coatings. Nodules of iron oxides minerals (0.5-2cm) are also noted to a lesser extent and have a dark grey metallic luster and appear as opaque dark red to black in thin section. One large (2 cm diameter) septarian iron oxide nodule was studied in thin section and found to be fractured on the inside and replaced with sparry calcite. Typically, the mudstone forms an erosive scoured contact with the thin conglomerates above.

Interpretation–

The massive character, and fine grain size of the mudstone beds may indicate suspension deposition by either eolian or aqueous processes. The massive nature, coupled with the presence of intervals with carbonate nodules—some with Fe/Mn oxide coatings—as well as slickensides and wedge-shaped blocky peds strongly suggest pedogenic overprinting (Retallack, 1990) and thus a terrestrial setting for the mudstones. Specifically, the macro- and micro-morphologic features observed are consistent with a calcic vertisol. These characteristic features include: subangular blocky ped microstructure with an almost entirely clayey matrix with striated b-fabrics as well as calcareous nodules (Kovda and Mermut, 2010; Verrecchia and Trombino, 2021). Applying the terminology from Retallack (1990) the microfabric is weakly defined clinobimasepic suggesting alignment of clay particles in slickensides. Vertisols often have high clay contents which correspond to the secondary clay peak in the core grain size histograms (Fig. 8). Argilliturbation is the dominant form of pedoturbation in vertisols which creates the slickensides and homogenous soil profiles caused by the frequent wetting and drying of shrink-swell clays which form in highly seasonal climates (Retallack, 1990). The instance of chaotic swirly bedding is interpreted to represent bioturbation.

The process of transport of the mud is more difficult to infer given limitations of the outcrops. In continental settings, suspension sedimentation can occur in unconfined overbank flooding events forming thick mudstone deposits (Miall, 1985; Foix et al., 2013). However, suspension deposition through eolian transport also occurs as dust settles out of suspension and forms massive loess deposits (Pye, 1995; Muhs, 2007). It is

difficult to discern dust in the rock record (Meijer et al., 2020; Soreghan et al., 2023) but the massive tabular character, common angular morphology of the silt quartz grains, and absence of channels, sand sheets, or bedding may indicate primarily eolian deposition of the mudstone facies. Loess deposits tend to form in tandem with paleosols, sometimes showing alternating deposition in the stratigraphy (Muhs, 2007; Dubois et al., 2012). However, paleosols are also common in fluvial overbank environments as well (Bown and Kraus, 1987; Kraus, 1999). Soil development requires landscape stability in which neither eolian or fluvial sedimentation is dominant (Kraus, 1999; Muhs, 2007) so that pedogenic processes may take over.

Conglomerate facies (Gm)

Description–

The conglomeratic facies is the least common lithology in the Garber Sandstone. Conglomerates in the Garber tend to be matrix supported and composed of rounded to subangular clasts (Fig. 9). In the southernmost outcrop, a small conglomeratic layer ~10 cm thick is composed entirely of 1-3 cm subangular chert clasts topped by coarse to medium sand in a restricted lens. In the central portion of the outcrop the conglomerate has a different character and is composed of sedimentary clasts of sandstone, mud chips, chert, and local light-colored calcareous nodules that are 1-5cm in diameter (Fig. 9A, 9B). These conglomerates are 20-30 cm thick and are medium bedded; they lack lateral continuity as they cannot be correlated across outcrops but locally form sheets several meters wide. In core, these sedimentary clast conglomerate beds punctuate the mudstone and sandstone lithologies as thin beds that are typically 3-5 cm thick with one conglomerate interval near the top of the core being upwards of ~20 cm thick (9C). These

thin conglomerates tend to scour the mudstone beneath forming an erosive contact and are then capped by planar laminated or climbing rippled sandstones (Fig. 9C). In outcrop, the conglomerate beds tend to be well-indurated and occasionally grade upwards into low angle planar laminated sandstone (Fig. 9D). They also are noted to be interbedded with tabular cross-bedded sandstone in the central portion of the outcrop belt. Conglomerates are not observed commonly in northern outcrops.

Interpretation–

Disorganized crudely-bedded conglomerates are common in subaqueous systems and are representative of high energy flows (Allen, 1970; Miall, 1988). The thin erosive conglomerate beds are likely indicative of channel lag fill that is activated during times of high discharge and scours into the deepest part of the channel eroding and depositing intraformational sedimentary clasts (North and Taylor, 1996). These thin beds are abruptly overlain by planar laminated or climbing rippled sandstone suggesting flow velocity decreased but remained in the upper flow regime. The more thickly bedded conglomerates seen near the top of the core and in outcrop may represent an accumulation of channel lag deposits that form larger bedload-transported longitudinal bars (Miall, 1977; Miall, 1985); however, the thick nature of the conglomerates suggests that they were not deposited during repeated channel lag accretion which can create stratification, but during large high density and high-velocity flows (Todd, 1989). The thin slightly erosive contact seen between conglomerate beds may indicate deposition of gravels during different flooding events. These beds grade into low angle planar-bedded sandstones than were deposited in waning flow conditions. The carbonate clasts are likely sourced from carbonate nodules in the mudstone facies that was eroded and entrained

into the flow during high energy events as observed in the Garber by Siemers et al., (2000) and in other similar deposits by North and Taylor, (1996).

Facies Associations

Taken in sum, the sandstone and conglomeratic facies suggest unidirectional, subaqueous channel deposits associated with fine-grained mudstone facies reflecting subaerial exposure and periodic landscape stability. This is most consistent with a fluvial depositional model. There is also a lack of diagnostic characteristics of nearshore or deltaic environments, including mud draping or bidirectional flow indicators. Using the classification schemes of Miall (1985) facies are grouped together into larger hierarchical schemes based on facies associations and bounding surfaces. The facies and their associations can be grouped into two overarching fluvial facies associations: Channel-fill facies association and overbank facies associations. The channel-fill facies association is characterized by the Sc, Sr, Sh, Sm, and Gm facies and the overbank facies association is characterized by Fm, Sh, and Sr facies (Table 1). Limited outcrop exposure precludes lateral correlation and limits the analysis of higher order bounding surfaces that help define the nature of the fluvial channel (Miall, 1985), so generally only the internal architecture of channel elements is assessed.

Channel-fill Facies Associations-

This facies association consists of sandstone and conglomerate lithofacies and is most dominant in the central portion of the outcrop belt. There is also a notable lack of associated floodplain deposits intercalated with the sandstones. Instead, most outcrops appear to be internally amalgamated sandstone bodies forming lens shaped channel-fill. In Figure 10A, a large outcrop ~45m wide and ~3m tall on the eastern side of Lake Thunderbird exhibits a concave up scoured erosional surface as the highest order bounding surface. Another scour equally as long but shifted slightly west exists halfway up the outcrop. Beneath the lower erosional surface there is sandstone, so, although the full extent is not exposed, we infer this represents larger scale amalgamation of relatively shallow channel-fill deposits with no interbedded floodplain deposits. Within the erosional surface there are two small lobate bar forms laterally cross cutting one another as well as sets of medium tabular cross-beds. Near the top of the outcrop the beds become more thinly bedded potentially indicating shallower water deposition.

Figure 10B shows a typical Garber outcrop in the central outcrop belt with the interior exposed due to a small slump. Massive mudstone (Fm) is slightly scoured by the thick, indurated channel-fill facies atop. The channel-fill is defined entirely by the Sc facies with large low angle cross beds on the bottom that are truncated by trough cross beds. Another small outcrop slightly further north but still in the central belt shows thin, elongated, semi-amalgamated sand bodies that are off-set and stacked obliquely; these are internally rippled laminated (Fig. 10C). Also north of Lake Thunderbird along the Lake Arcadia shoreline, sigmoidal sand bodies are semi-amalgamated and composed of Sm, Sc, and Sr facies, with wedges of Sh facies between; likely indicating barform migration

(Fig. 10D, 10E). Thickly bedded conglomerate (Gm) crops out several meters away where it grades upwards into low angle cross-bedded sand. In the north, the outcrop quality decreases significantly but no large, amalgamated sandstone bodies were observed. Figure 10F shows a small lens shaped internally massive sandstone along with isolated thinly bedded structureless sands. Another smaller internally structureless lens not pictured is ~5m away indicating these sandstones are isolated within massive mudstone deposits.

Overbank Facies Associations-

Fine-grained facies indicative of floodplain fines define this facies association. The most dominant facies is the massive mudstone (Fm) with instances of thickly laminated sandstone (Sh) and rippled sandstone (Sr). Massive mudstone outcrops beneath thick sandstone outcrops in the central outcrop belt and in association with small sandstone lenses in the north (Fig. 10B, 10F). The mudstone-sandstone contact is typically erosional and topped by rip up clast conglomerate suggesting scouring of the floodplain during initial channel development. In core, mudstone, commonly with pedogenic alteration, suggests a stable floodplain environment. Climbing ripples seen in core and outcrop likely represent crevasse splays on the proximal floodplain when poorly channelized flows broke through the levee and deposited sediment rapidly (Burns et al., 2017). Figure 10G depicts an outcrop interpreted to represent a floodplain environment with very fine-grained laminated sandstone. Parting lineations are absent, and the lower portion of the outcrop is a leached light green color with pore filling calcite, whereas the upper portion of the outcrop is composed of iron oxide cemented laminae. In this case, these thin stacked sand sheets may reflect low-flow regime depositing extremely low

amplitude sand waves that appear as laminations in very shallow water across a floodplain (Smith, 1971). Additionally, Miall (1988) suggested that thin sheet sands may reflect unconfined sheet deposition within playa lakes; this may explain the light green color and calcite cement in the lower half meter of the northern laminated outcrop.

Channel and overbank spatial trends-

Changes in character of the channel-fill facies from the central portion of the outcrop belt to the north warrant further interpretation. Direct correlation is not possible, but distinct trends occur in the fluvial architecture. For example, near Lake Thunderbird, outcrops consist predominantly of amalgamated sandstone beds with minimal mudstone save for the outcrop in Figure 10B which overlies a massive mudstone deposit. However, the sandstone here is never interbedded with mudstone and tends to form large tabular to lenticular outcrops. North of Lake Thunderbird, the Lake Arcadia outcrops remain predominantly sandstone; however, the sand-bodies are more sigmoidal and lens-shaped and only semi-amalgamated. The sandstones in the northernmost outcrops are not amalgamated and exist only as small, isolated bodies within massive mudstone.

Sandstone Modal Mineralogy

Table 2 summarizes the modal mineralogy of the 25 sandstone samples across the outcrop belt. The samples are mostly quartz-rich with total quartz content ranging from 83.3-94.3%. The total quartz is mostly made of monocrystalline quartz (less than 4 extinction planes) that ranges from 73.4-90.1% in the samples. Lithic fragments are the next most common framework grain and include sedimentary, metamorphic, and volcanic lithic fragments. The lithic grains range from 4.6-13.0% with metamorphic lithics being

slightly more common than sedimentary lithics; however, including chert in sedimentary lithics makes them slightly more common. Metamorphic lithic fragments usually appear as grains of aligned, platy, high-birefringence minerals. Non-chert sedimentary lithic fragments are primarily mudstone fragments. Notably few volcanic lithics occur; 10 samples have none and the remaining 15 samples have only 1-4 volcanic lithic grains per sample. When polycrystalline quartz is included as part of the total lithic fragment category, the percentages range from 8.1-24.3%. Feldspar grains are the least common, ranging from 1.0-6.0% with plagioclase being slightly more common than potassium feldspar. Other grains that were rarely observed during petrographic analysis were opaque black to very dark red-brown detrital iron oxide grains, zircon, and muscovite. A few instances of quartz grains with randomly oriented high birefringence needle-like inclusions were also noted across a few samples with the southern sample site having five instances of this grain type. There are marginal spatial trends in the modal mineralogy as there is slightly less quartz and slightly more lithic fragments in the southern samples compared to northern samples (Table 2). The northernmost six samples also exhibit fewer feldspar grains (Table 2).

Paleocurrent

Owing to outcrop exposure limitations, paleocurrent data for the Garber Sandstone is sparse. Paleocurrent measurements used in this study include unpublished data from Kenney et al., (2005) as well as additional measurements from this study (Fig. 11). Paleocurrent measurements for the Garber Sandstone are made from trough and tabular cross-beds, asymmetrical ripples, and parting lineations. Though there is scatter in the data, the paleocurrent measurements surrounding Lake Thunderbird in central

Oklahoma show a general north to northwesterly paleoflow from the south to southeast. (Kenney, 2005). Additional paleocurrent measurements from this study show similar trends and exhibit a west to northwest transport direction with a few measurements also plotting slightly to north (Fig. 11).

Grain Size Analysis

As described above, the sandstone lithofacies are generally very fine- to fine-grained, although some sand bodies are medium to lower coarse grained. Figure 12 summarizes the volume percent grain size distribution of sampled sandstone outcrops generated from LPSA data. The northern outcrops all show similar, tight-peaked histograms indicative of well sorted and very fine to fine sand with modes ~100-125 μm. Farther south, but still in the central portion of the outcrop belt, the grain size coarsens to fine and medium sand with a modes from ~300-550 μm. In the southern outcrop belt, coarse and medium well-sorted to moderately well sorted sand occurs. One analyzed mudstone sampled beneath a channel-fill medium sand unit in outcrop (Fig. 10B) is dominated by a coarse silt with a coarse tail in the very fine sand fraction.

The grain size analysis from the core samples is illustrated in Figure 8; all the sandstone samples are very well sorted and modes are between very fine to medium sand. The mudstone samples show slightly bimodal peaks with smaller peaks in the clay-size range and the larger peaks in the very fine to fine silt size range. The slight coarse tail in the mudstone grain size curves may be attributed to very fine sand grains or may indicate incomplete disaggregation of the mudstone. Additionally, slight peaks in the very fine silt to clay fraction in most of the sandstone grain size curves may be attributed to

disaggregation of iron oxide clay cement minerals that form the matrix within the sandstones.

Detrital Zircon Geochronology

Six new samples (n=1682) of very fine to medium grained sandstone were selected for U-Pb detrital zircon geochronology of the Garber Sandstone with one additional sample from Thomas et al., (2021) (OK-5-GB2). For the composite PDPs and MDS plots, the data for Appalachian samples is from Park et al., (2010) and Thomas et al., (2017); Fort Worth samples are from Alsalem et al., (2018) and Thomas et al., (2021); and Ouachita/Arkoma samples are from McGuire, (2017), Sharrah, (2006) and Thomas et al., (2021). The Garber-Wellington dataset is composed of eight U-Pb detrital zircon samples from this study with one additional sample each from Thomas et al., (2021) and Soreghan et al., (2018). Basement source terrane age bins follow those outlined in Kushner et al., (2022) (Fig. 13). Figures 14 and 15 highlight Garber PDPs and an MDS plot of Lower Permian samples. Figures 16 and 17 show combined datasets from the Appalachian foreland, Fort Worth basin, and Ouachita fold-thrust/proximal Arkoma basin.

Probability density plots display a cosmopolitan age spectra that is very similar across all Garber Sandstone samples (Fig. 14). The primary age peak for all samples is between 925-1300 Ma aligning with a Mesoproterozoic basement source. The grains in this age range comprise 42.1-52.0% of the total with the average over the seven samples being 47.5%. The second largest age grouping includes Paleoproterozoic ages from 1600-1800 Ma; this age range comprises 13.7-21.0% of the total ages (average 15.9%). Another age range of importance are the grains from 300-500 Ma as they are associated

with Paleozoic terranes. Grains of these ages comprise a modest of 4.3-9.7% of the total grains (average 6.9%). Grains with Neoproterozoic ages account for a modest percentage of all samples ranging from 1.1-4.1% and averaging 2.3%. Zircon grains with U-Pb ages in the 520-540 Ma range are rare in the Garber Sandstone. This range spans the magmatism associated with the Southern Oklahoma Aulacogen. Two samples, GBR-COV1-22 and GBR-NTB-22 recorded no 520-540 Ma grains whereas the other five samples contain < 1.5%. The only notable potential spatial trends are a slight increase of 1600-1800 Ma grains northward that correlates with a slight decrease in 925-1300 Ma grains as sample GBR-COV2-22 represents the northernmost sample and GBR-HW39-22 the southernmost (Table 3).

DISCUSSION

Depositional setting of the Garber Sandstone

Continental environment and paleoclimate

Initial studies of the Garber Sandstone initiated debate on the depositional environment of the unit and the implications toward the presence of a Permian seaway and regional paleoclimate in general (Patterson, 1933; Tanner, 1959; Cox 1978; Kenney, 2005; Soreghan et al., 2018). Many earlier studies considered the Garber Sandstone to represent marginal marine conditions in the form of transitional shallow marine, deltaic complexes, and even lagoonal/barrier island assemblages (Patterson, 1933; Tanner, 1959; Cox; 1978). The hypothesis of a meandering fluvial system by Kenney (2005) provides the most detailed analysis of facies surrounding Lake Thunderbird and establishes the first robust study to suggest a purely continental origin for the Garber Sandstone.

However, the Kenney (2005) study was spatially constrained to a small area of the Garber outcrop belt and did not provide detailed provenance analysis. Additionally, past studies of fluvial systems in the rock record often assigned either a meandering or braided interpretation, although rivers rarely fit these end members and even within the dichotomy significant internal variability occurs owing to variations in climate and sediment supply (Miall, 1977). Additionally, river systems in Earth's deep-time record likely operated differently and preservational biases may skew interpretations of ancient river morphology (Fielding, 2012; Latrubesse, 2015). Facies analysis in this study is inconsistent with a marine or deltaic interpretation and supports a fluvial depositional model. Furthermore, we speculate that the Garber Sandstone likely accumulated in an ephemeral river system.

Early studies suggested the Garber Sandstone is marginal marine as evidenced by lenticular sand bodies interpreted as deltaic channels, and perpendicular modes of paleocurrents inferred to record a littoral, tidal--influenced shoreline (Patterson, 1933; Tanner, 1959) but neither of these characteristics are diagnostic of deltas or shallow marine settings. Deltaic complexes would preserve evidence of both fluvial and marine influences, such as heterolithic flaser bedding with sand bodies draped by mud and exhibit some combination of bidirectional current indicators, prevalent carbonaceous sediments, marine and restricted marine fossils, hummocky cross stratification, and wavy bedding (Aschoff et al., 2018). All these characteristics, notably any form of thin mud draping or interbedding, are absent in the Garber Sandstone. Additionally, the fossils present in the Garber Sandstone in the north are composed of terrestrial vertebrate species that would have thrived more so in a freshwater environment and on land (Olson, 1967).

Recent reinterpretations of other Oklahoma red beds have come to similar conclusions and reinforce a continental setting (Kenney, 2005; Sweet et al., 2013; Giles et al., 2013; Foster et al., 2014; Soreghan et al., 2018). All these red beds, including the Garber Sandstone contain mudstones inferred as thick vertisols, indicating significant periods of subaerial exposure and landscape stability that are common in monsoonal arid continental settings (Sweet et al., 2013; Giles et al., 2013; Foster et al., 2014). The red beds that stratigraphically bind the Garber Sandstone are also defined by large accumulations of loessite, reflecting a semi-arid, continental environment (Sweet et al., 2013; Giles et al., 2013; Foster et al., 2014; Soreghan et al., 2018; Lawton et al., 2021).

The Garber Sandstone then likely accumulated in a dryland landscape ephemeral fluvial system with highly seasonal discharge. Ephemeral fluvial systems comprise channel-fill facies associated with both high energy and flashy discharge events such as thickly bedded intraformational rip-up clast conglomerates, planar laminated sand sheets with parting lineations, climbing ripples, and massive sandstones (North and Taylor, 1996; Horn et al., 2018)—all of which characterize the Garber Sandstone. Additionally, the dominance of very fine to fine sand that is typically well sorted and locally has very well-rounded grains may record an influence of eolian sediment being reworked and transported into the fluvial system, although we observed no evidence of eolian deposits within the outcrop belt. Further work using an SEM to assess grain morphology for traits associated with eolian transport will provide further insight to identifying eolian sediments (Meijer et al., 2020). In summary, the Garber Sandstone records a continental, likely ephemeral, fluvial environment based upon the facies present, previous

interpretations of stratigraphic units encasing the Garber Sandstone, and lack of distinguishing delta or marine characteristics.

Fluvial Morphology of the Garber Sandstone

Recent debate regarding the type of fluvial morphologies preserved in the rock record has become contentious, with some suggesting distributive fluvial systems (DFS) are preferentially preserved, whereas others suggest axial systems and avulsive fluvial morphologies have high preservation potential as well (Weissmann et al., 2010; Fielding et al., 2012; Latrubesse, 2015). Distributive fluvial systems are a recently recognized fluvial system defined by radial flow patterns, decrease in grain size and channel size downslope, and increasingly unconfined channels away from the apex (Nichols and Fisher, 2007). Generally, this implies more interconnected amalgamated sand bodies near the apex and small disconnected sand bodies laterally spaced apart in floodplain deposits distal to the apex (Nichols and Fisher, 2007; Trendell et al., 2013).

Whether or not the Garber Sandstone represents a DFS remains unclear; however, some data supports the interpretation of a distributive character with an apex southeast of the outcrop belt. Firstly, grain size decreases towards the north (Fig. 18), as indicated from samples collected exclusively from sandstone bodies interpreted to represent channel-fill facies. Secondly, the sand bodies around Lake Thunderbird and Lake Arcadia are large and generally amalgamated to semi-amalgamated whereas those in more northly outcrops exhibit a significant decrease in channel-fill facies, with smaller instances interbedded with overbank floodplain deposits (Fig. 10). Thirdly, DEM analysis (Belt and Paxton, 2005) paired with bedrock observations of the Garber show that mudstone

fractions increase, and sandstone fractions correspondingly decrease from the central outcrop belt to the north, with erosion removing the more susceptible mudstone units and creating flat topography (Aurin et al., 1926; Wood and Burton, 1968; Belt and Paxton, 2005). This may also apply to the southernmost portion of the Garber Sandstone being composed of mostly eroded mudstone and rare sand bodies as it is entirely flat-lying topography south of the Wichita Mountains. A trend of thinning sandstone and increasing mudstone away from the central portion of the outcrop belt is consistent with a distributive character. Unfortunately, paleocurrent data are too limited to show the diagnostic radial flow. Though the limitations of the study are not conducive to fully testing the distributary model, we do contend that the Garber Sandstone reflects an ephemeral fluvial system with some evidence pointing to a distributive character.

Provenance of the Garber Sandstone

Sandstone Petrography Provenance Trends

The QFL and Q_mFL_t ternary plots exhibit very little scatter in the data with all samples plotting in the recycled orogen region (Fig. 18). The Q_mFL_t diagram exhibits slightly more scatter, but most samples plot within the quartzose recycled orogen region close to the craton interior line with one sample plotting within the craton interior region (Fig. 18). These data strongly suggests that the source for the Garber Sandstone was uniform, and dominated by mature lithologies reflecting a recycled orogen, such as a fold-thrust belt associated with a convergent plate boundary (Dickinson et al., 1983). Petrographic observations also document metamorphic grains in the form of low-grade metamorphic lithics and polycrystalline quartz grains derived from a metamorphic source (Basu et al., 1975; Young, 1976). Deformed siliciclastic passive margin sediments and

low-grade metamorphic occur within the Ouachita fold-thrust belt (Babaei and Viele, 1992). Large chert grains and prevalent quartz grains with high birefringence needle-like inclusions are also common in petrographic observations of the two southernmost outcrops. These needle-like inclusions further support a low-grade metamorphic source whereas the large chert grains may have originated from the Arkansas Novaculite that was uplifted in the Ouachita Mountains and outcrops in Oklahoma and Arkansas. The lack of volcanic lithics and feldspars argues against a Wichita or Arbuckle proximal granitic source. Below we present detrital zircon provenance data that supports a Ouachita orogen source as opposed to the further afield Appalachian orogen source.

Detrital Zircon U-Pb Age Provenance Interpretations

The Ouachita salient records a tectonically complex time in the history of the Midcontinent owing to the accretion of Peri-Gondwanan terranes against Laurentian continental crust during the Appalachian-Ouachita-Marathon orogeny (Thomas et al., 2021). Permian sedimentary rocks in Oklahoma may contain sand from Laurentian and Gondwanan sources that were tectonically active until the end of the Pennsylvanian. Previous interpretations of the Garber Sandstone provenance remained largely speculative with studies suggesting the Wichita, Arbuckle, and Ouachita Mountains as major sources with varying opinions on which source is most dominant (Tanner 1959; Cox, 1978; Kenney et al., 2005). Detrital zircon data indicate that the Garber sands were sourced from a homogenized system given the similarity of the ages among all samples, but that the source region includes multiple age-populations rather than a single basement terrane with a unique age.

The primary age mode for all samples in Figure 14 falls within the 1300-925 Ma range and corresponds ultimately to the Grenville orogeny in the east, which is a prominent supplier of zircons across the Midcontinent in various time periods (Fig. 13; Moecher and Samson, 2006; Gehrels et al., 2011). Another prominent age peak observed in Figure 14 reflects the Taconic, Acadian, and Alleghanian orogenies (500-300 Ma) associated with the formation of the Appalachian Mountains (Fig. 13; Miller, 2000; Aleinikoff, 2002; Park et al., 2010; Thomas et al., 2017). These sources align with progressive recycling of sediments within each orogen's respective clastic wedges as synorogenic sediments rarely record primary zircons from synorogenic igneous rocks, but the following orogen records recycling of the previously formed crystalline rocks (Becker et al., 2005; Thomas et al., 2017).Throughout the Pennsylvanian, transverse and axial rivers that drained the Appalachian orogen deposited sediment with Grenville and Appalachian sources within foreland and intracratonic basins westward and southward (Thomas et al., 2017; Chapman and Laskowski, 2019; Lawton et al., 2021) as seen within the partially imbricated Arkoma Basin (Sharrah, 2006), the Anadarko Basin (Kushner, et al., 2022), and the Illinois and Forest City Basins (Kissock et al., 2018).

A small but persistent 2500-2800 Ma Archean signature exists in the Garber Sandstone that matches a Wyoming craton or Superior province source (Fig. 13; Hoffman, 1989; Van Schmus et al., 1996). However, these regions were buried long before the Permian and thus advocate for sediment recycling as the primary mode of delivery for these grains (Thomas et al., 2017, 2021; Kushner et al., 2022; Sharrah, 2006).

Another secondary population is the 1300-1600 Ma grains that reflect the Granite-Rhyolite basement located across the Midcontinent and is fairly common in Paleozoic sediments across the continent (Fig. 13; Thomas et al., 2017, 2021; Alsalem et al., 2018; Sharrah, 2006). It is possible that an Arbuckle source signature may be recorded in 1320-1390 Ma age grains attributed to the Southern Granite-Rhyolite basement being uplifted and exposed along the Arbuckle Mountains, however as previously stated this age signature is also preserved within older Paleozoic strata (Thomas et al., 2012) and lower Permian strata onlap the Arbuckle uplift, suggesting it was not actively shedding sediment by time of Garber deposition.

The 570-790 Ma source is not explained by basement terranes in the east as it is associated with southern accreted Peri-Gondwanan terranes along the Appalachian-Ouachita-Marathon margin (Fig. 13). A possible source contributing to this signal is the continental Peri-Gondwanan Sabine block–though interpretations of the age of the Sabine block remain poorly understood (Fig. 13; Clift et al., 2018; Thomas et al., 2021). Some authors suggest the Sabine block is a major source of Neoproterozoic (800-500 Ma) age zircons to Pennsylvanian strata incorporated into the Ouachita-Marathon fold and thrust belt and the Fort Worth basin (Alsalem et al., 2018; Thomas et al., 2021). This would suggest that by the Early Permian, Peri-Gondwanan continental blocks behind the thrust front may have been more significant contributors of sediment compared to early in the Carboniferous (Fig. 13). This trend is also noted in the Fort Worth basin with the Lower Permian Cisco Group sandstone sample possessing a slightly stronger Peri-Gondwanan signature compared to the Gzhelian Bunger Group sandstone (Thomas et al., 2021).

Finally, the lack of detrital zircon ages matching the Cambrian igneous suites of the Wichita and Arbuckle Mountains suggest these were not major sediment suppliers. Additionally, by the Kungurian the Wichita and Arbuckle uplifts were already mostly buried and not contributing significant sediment (Soreghan et al., 2012; Soreghan and Soreghan, 2013; Thomas et al., 2021).

Discrepancies in source of 1600-1800 Ma zircons

The secondary mode of 1600-1800 Ma zircons is somewhat enigmatic for the Garber Sandstone as these ages are typically associated with the Yavapai-Mazatzal province located significantly west of the Garber Sandstone outcrop belt (Fig. 13). Grains of Yavapai-Mazatzal age are associated with the Ancestral Rocky Mountain (ARM) uplifts that occurred during the Pennsylvanian to Early Permian in the western portion of the Midcontinent (Gehrels et al., 2011; Soreghan and Soreghan, 2013; Leary et al., 2020). The presence of silt-sized Yavapai-Mazatzal grains in the Wellington Formation is explained by eolian transport from westerly winds due to the Wellington having a dominant mode of loess deposition at the end of its depositional history (Giles et al., 2013). It is possible that these same eolian transport mechanisms transported sandy sediment eastward to the alluvial plain that the fluvial system depositing the Garber Sandstone traversed; however, there is no paleocurrent data to support this. The Nemaha Uplift stretches into north-central Oklahoma (Fig. 1) and exposed Yavapai-Mazatzal age basement during the Mississippian; however, this uplift was subsequently buried by the Pennsylvanian, ruling it out as a provenance source (Xie et al., 2016). The unconstrained Sabine block that currently lies under 3.5 km of Gulf Coastal Plain sediments directly to the southeast of Oklahoma may possess a unique age signature separate from other

interpreted Gondwana terranes (Fig. 13; Clift et al., 2018). A recent study used granite xenoliths thought to be sourced from the Sabine block and found they represent ages from 1800-1600 Ga which are distinct from surrounding terranes (Clift et al., 2018). The hypothesis suggests that the Sabine block was once part of the Yavapai-Mazatzal province in the west and was rifted away then reaccreted before 1.4 Ga and subjected to additional Granite-Rhyolite magmatism (Clift et al., 2018). However, Thomas et al., (2021) argues that based on published geophysical models, the xenolith sampling location represents thinned Laurentian crust–not the Sabine block–reiterating that the Sabine basement is more likely to have a 500-800 Ma Peri-Gondwanan signature. Upon review of these potential 1800-1600 Ma provenance sources, we find either a western Yavapai-Mazatzal source or southeastern Sabine block source to be most convincing. Until the Sabine block is confidently dated it is difficult to say if it contributes more strongly to 1600-1800 Ma or 500-800 Ma ages.

Provenance synthesis and comparison to other basins

The provenance analysis above suggests a number of primary basement sources for the Garber Sandstone, but the similarity of the spectra among the samples suggest that multiple transport pathways is unlikely. The most likely interpretation is that Garber sand was sourced from a single drainage system tapping a recycled orogen, which matches the sandstone mineralogy. That recycled orogen was most likely the Ouachita fold-thrust belt and with possible sediment input from the Peri-Gondwanan blocks to the south.

As noted above, Pennsylvanian reconstructions suggest trans-continental drainages sourced in the Appalachians supplied Grenville- and Paleozoic-aged detrital zircons, but these ages are also common in Paleozoic strata incorporated within the

Ouachita fold thrust belts (Sharrah, 2006). Also, Ordovician strata imbricated in the Ouachita fold-thrust notably have prominent percentages of Archean craton grains and would have been exposed in the Ouachita fold-thrust during the time of the Garber Sandstone deposition (Gleason et al., 2002; Sharrah, 2006; McGuire, 2017; Thomas et al., 2017, 2021). Granite-Rhyolite ages, present in the Garber samples, are another dominant mode in strata incorporated in the Ouachita fold-thrust belt further supporting recycling of these strata (Fig. 13; McGuire, 2017; Thomas et al., 2021). The Neoproterozoic ages can also be explained by recycling of strata within the Ouachita thrust belt, or directly from the Peri-Gondwanan basement blocks located to the south.

To test whether the Ouachita fold-thrust belt formed the primary source of detrital zircons to the Garber Sandstone, we compiled detrital zircon data from other basins to compare signatures and assess potential similarities (Park et al., 2010; McGuire, 2017; Thomas et al., 2017, 2021; Soreghan et al., 2018; Alsalem et al., 2018; Sharrah, 2006). However, it is important to note the comparative datasets are mostly Pennsylvanian in age, as Lower Permian outcrops are limited in the Midcontinent and almost entirely absent eastward. The Appalachian dataset contains one Lower Permian unit, the Proctor Sandstone, and the Fort Worth basin contains the Lower Permian Cisco Group sample. No Permian units are recorded in the Ouachita fold-thrust or Arkoma basin. So, the comparison provides limited power for interpreting coeval source similarities but does allow for interpreting possible recycling of sand from the older regions to the Garber-Wellington (Fig. 16, 17). The MDS plot (Fig. 17) suggests that the Ouachita fold-thrust units are most similar to the Garber-Wellington, signifying that it could have acted as both a source of sediment and drainage system source with headwaters in the Ouachita

region. The Fort Worth basin samples are distinct from Garber-Wellington (Fig. 17), mostly because of the larger Neoproterozoic peak (Fig. 16) in the former. This may reflect the interpretation that the source of the Fort Worth basin sediment during the Pennsylvanian-Early Permian was more directly from Peri-Gondwanan terranes. (Alsalem et al., 2018; Lawton et al., 2021; Thomas et al., 2021). The Appalachian basin signature differs from both because of the lack of these same Neoproterozoic ages as well as fewer grains reflecting Yavapai-Mazatzal sources. The most notable difference between the two sets (Fig. 16) is that the Garber-Wellington possesses a stronger Yavapai-Mazatzal signal compared to the Ouachita fold-thrust units. This difference could be attributed to the drainage system accessing the Sabine terrane that may contain Yavapai-Mazatzal age basement in addition to Neoproterozoic (Peri-Gondwanan) basement. Alternatively, if sourced from the west, eolian processes would have had to carry the sand to the depositional site to be well mixed and distributed along the outcrop belt.

Regional paleocurrent and sediment dispersal

Paleocurrent data has long been proven to be a powerful method for understanding basin analysis and the relationship between sediment source and sink (Potter and Pettijohn, 1977). By knowing the general direction of sediment routing, predictions are made about the source of sediments. As noted above, specific paleocurrent data in the Garber is limited but shows a flow direction between north and west (Fig. 11; Kenney, 2005). Regional paleocurrent datasets also exist, particularly for older units. For example, Late Pennsylvanian data from a comprehensive review of paleocurrent measurements in eastern Oklahoma and Arkansas archive a history of

paleoflow during and after the Ouachita orogeny (Fig. 11; Hirtz et al. 2022). Paleocurrent indicators in Gzhelian units that crop out east of the Permian red beds suggest a mostly west to northwestward flow direction (Fig. 11; Hirtz et al. 2022).

Implications for Continental Paleogeography and Sediment Dispersal

Beyond the regional scale, these paleocurrent trends fit into larger scale continental sediment dispersal hypotheses. Studies of dispersal trends across western Pangea in the Late Paleozoic has gained traction in recent years as larger and more numerous detrital zircon datasets are providing insight into provenance and sediment routing (Gehrels et al., 2011; Xie et al., 2016; Soreghan et al., 2018; Chapman and Laskowski, 2019; Lawton et al., 2021; Thomas et al., 2021; Kushner et al., 2022). Most studies have focused on Mississippian to Pennsylvanian sediment routing, with less data available for the Early Permian. In general, there is consensus for the Pennsylvanian that large axial and transverse fluvial systems drained the Appalachian Mountains depositing abundant sand beyond the Appalachian foreland across the southwest, including Oklahoma, as recorded by mixed western and eastern source detrital zircons in the southwest (Gehrels et al., 2011; Chapman and Laskowski, 2019; Lawton et al., 2021). By the Early Permian, fluvial sedimentation in the Midcontinent took on an ephemeral transverse character compared to the extensively developed axial rivers of the Carboniferous (Gehrels et al., 2011; Lawton et al., 2021; Thomas et al., 2021). This might be because of increased aridity in the Midcontinent creating wadi and sabkha-like environments that reworked and supplied sediment for eolian deposition; though rivers still drained the region (Sweet et al., 2013; Giles et al., 2013; Foster et al., 2014; Soreghan et al., 2018; Lawton et al., 2021). Lawton et al., (2021), in a recent (Kungurian,

ca. 275 Ma) paleogeographic reconstruction represents the Wellington Formation as having a transverse distributive fluvial character with a flow direction from the southeast and headlands in the Ouachita Mountains, however, this dataset asserts that this is more representative of the Garber Sandstone which has more widespread fluvial characteristics in comparison to the Wellington Formation (Fig. 19). This implies that Late Pennsylvanian to Early Permian fluvial transport likely evolved from draining eastward (Appalachian) sources to flow from the southeast of central Oklahoma and is consistent with the provenance data suggesting the Ouachita fold-thrust belt as a source. Another regional tectonic implication is that although the ARM-related uplifts were actively subsiding by this time, the Ouachita fold-thrust belt maintained relief and must have been supported geodynamically to continue to source sediment even with active erosion during deposition of the Garber Sandstone (Fig. 19).

CONCLUSIONS

The facies and detailed sedimentologic analyses presented in this study show no unequivocal evidence for a marginal marine or deltaic depositional environment of the Garber Sandstone. Rather, when paired with interpretations of the surrounding stratigraphy, which includes thick paleosols, a continental fluvial environment is more probable. Study area limitations proved difficult in assessing the fluvial morphology but the limited evidence suggesting a distributive character includes 1) a slight decrease in sandstone grain size from central to northern outcrops 2) heavily amalgamated sandstone outcrops in the central outcrop belt with no large amalgamated sands in the north 3) an overall decrease in sandstone facies and increase in mudstone facies from the central belt to the north. Vertisols, pedogenic carbonate nodules, mudcracks, and continental

paleoclimate interpretations support an arid climate during deposition of the Garber Sandstone.

Though sediment routing of the Late Paleozoic Midcontinent is well documented in the Carboniferous, studies of Early Permian provenance sources and implications for sediment dispersal and paleogeography are less robust. The data presented here suggests a single source for the Garber Sandstone, but that the source consisted of a mixture of age populations. A mostly recycled Ouachita/Arkoma source for the Garber Sandstone is supported by petrographic data suggesting a recycled orogen source. Primary sediment supply from the Sabine block or the Yavapai-Mazatzal provinces also impacted sedimentation within the Garber but less so in the pre-Permian Ouachita/Arkoma sediments.

Detrital zircon data supports a Ouachita/Arkoma source and also rejects a large axial fluvial system routing directly from the Appalachians as the Garber-Wellington detrital zircon spectra would be expected to show a stronger similarity to the Appalachian source spectra (Fig. 17). Additionally, the arid climate of the Permian may be more conducive to forming short transverse fluvial drainages from the Ouachita fold-thrust rather than large, continental fluvial systems draining the Appalachians which would need a very wet climate, like that of the Carboniferous, to persist (Soreghan et al., 2018; Chapman and Laskowski, 2019; Lawton et al., 2021). This also suggests that the Ouachita fold-thrust formed a highland—and source of sediment—later than other regional uplifts such as the Wichita and Arbuckle uplifts, that were being buried by Permian sediments at this time. Finally, this work aids in paleogeographic reconstructions as a lack of consensus on the extent of Early Permian seas complicates interpretations of

Permian red beds; this study supports a retreat of the inland seas in Oklahoma by the Kungurian to continental conditions (Fig. 17; Soreghan et al., 2018; Lawton et al., 2021).

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FIGURES

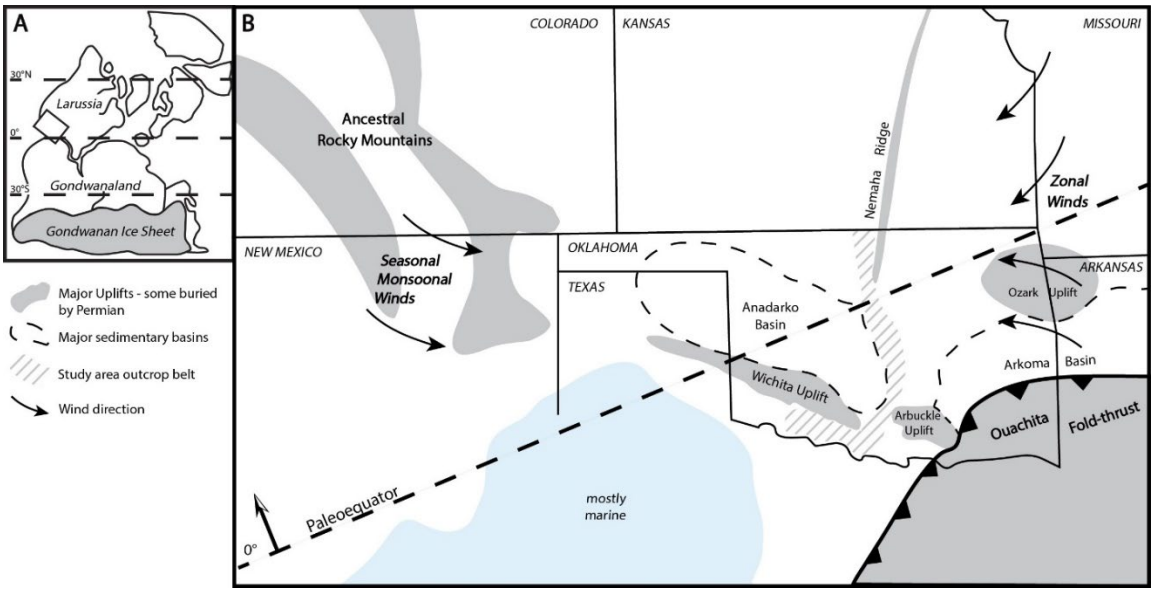


Fig 1. **A)** Global map showing formation of Pangea in the Early Permian with the Midcontinent outlined, modified from Soreghan et al. (2018). **B)** Map highlighting Kungurian paleogeographic elements mentioned in text, modified from Giles et al., (2013). Modern Garber Sandstone outcrop belt shown with gray diagonal lines. Arrows show monsoonal and zonal winds and paleoequator shown with bold dashed line. Uplifts shown in gray, most of which save for the Ouachita fold-thrust were mostly or entirely buried. Extent of the Permian sea shown in blue. Major basins outlined with dashed lines.

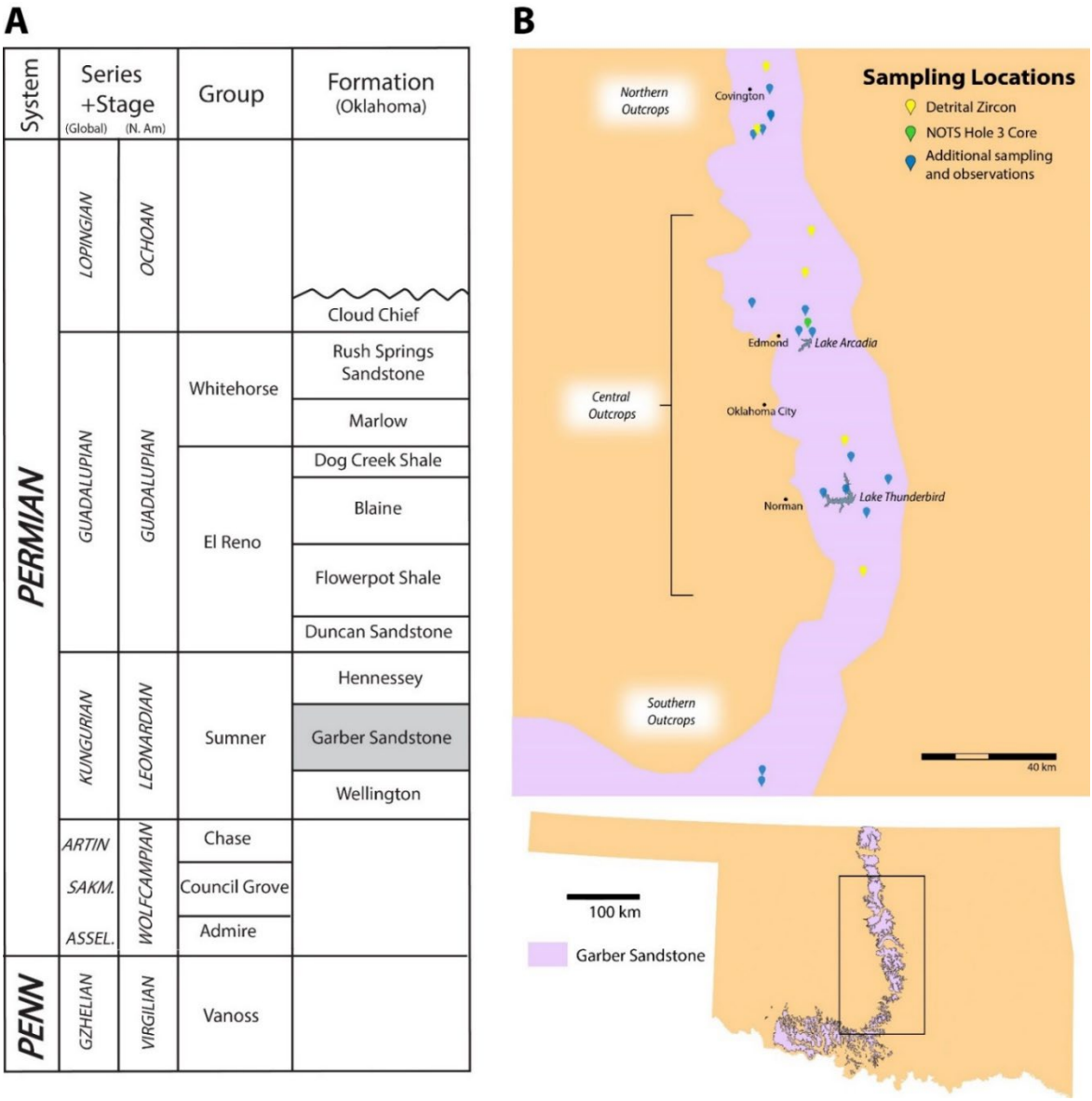


Fig 2. A) Late Pennsylvanian to Permian stratigraphy in central Oklahoma modified from Giles et al., 2013. Assel., Sakm., and Artin., stand for Asselian, Sakmarian, and Artinskian, respectively. **B)** Study area map highlights Garber Sandstone outcrop belt (purple) and 23 sampling locations. Blue symbols represent areas where facies, grain size, and petrographic data was collected. Yellow symbols represent locations where detrital zircon geochronology samples were taken. Green symbol represents NOTS Hole 3 core. Lake Thunderbird, Lake Arcadia, and significant cities near study areas are included as well.

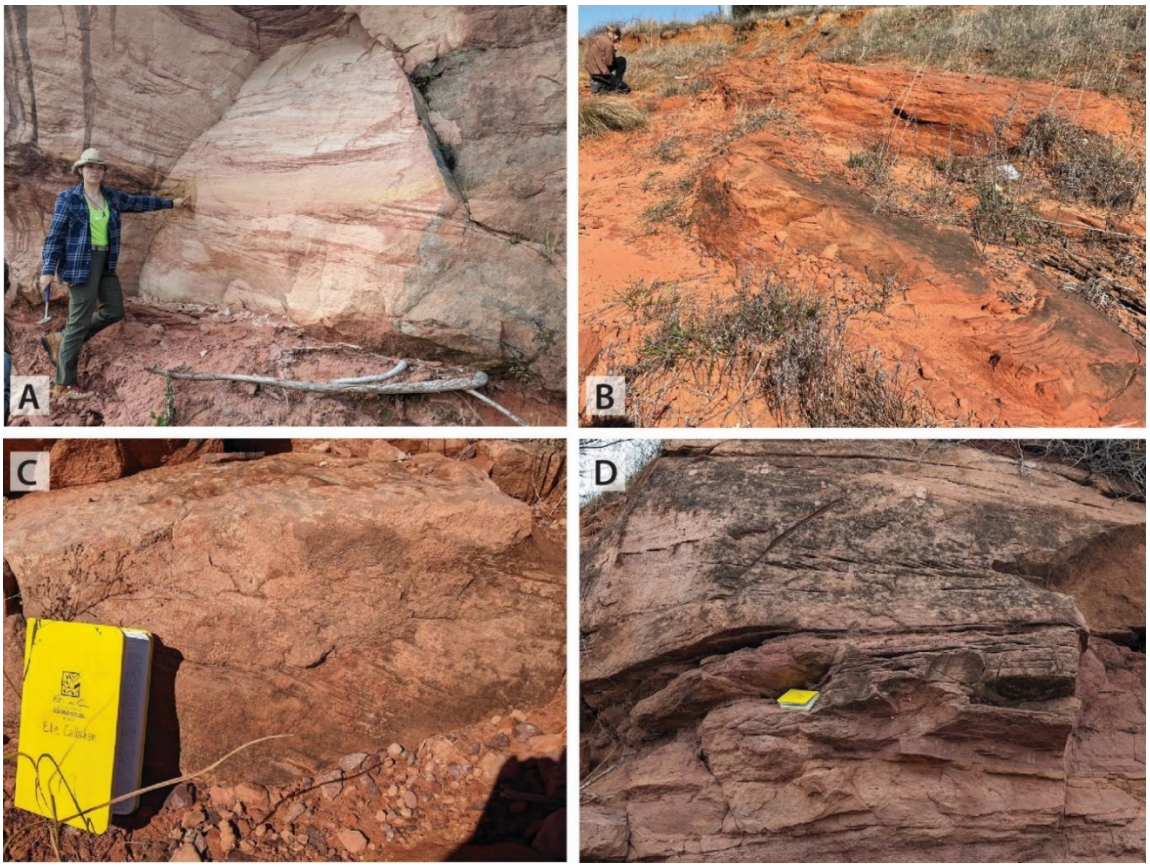


Fig. 3: Cross-bedded sandstone facies (Sc). **A)** Shallow trough cross beds near center of outcrop. **B)** Large plan-view trough cross beds. **C)** Planar cross beds with small super imposed ripple marks on top. **D)** Massive lenticular sandstone with small planar cross beds directly above. Large lower angle planar cross beds at the top of the outcrop.

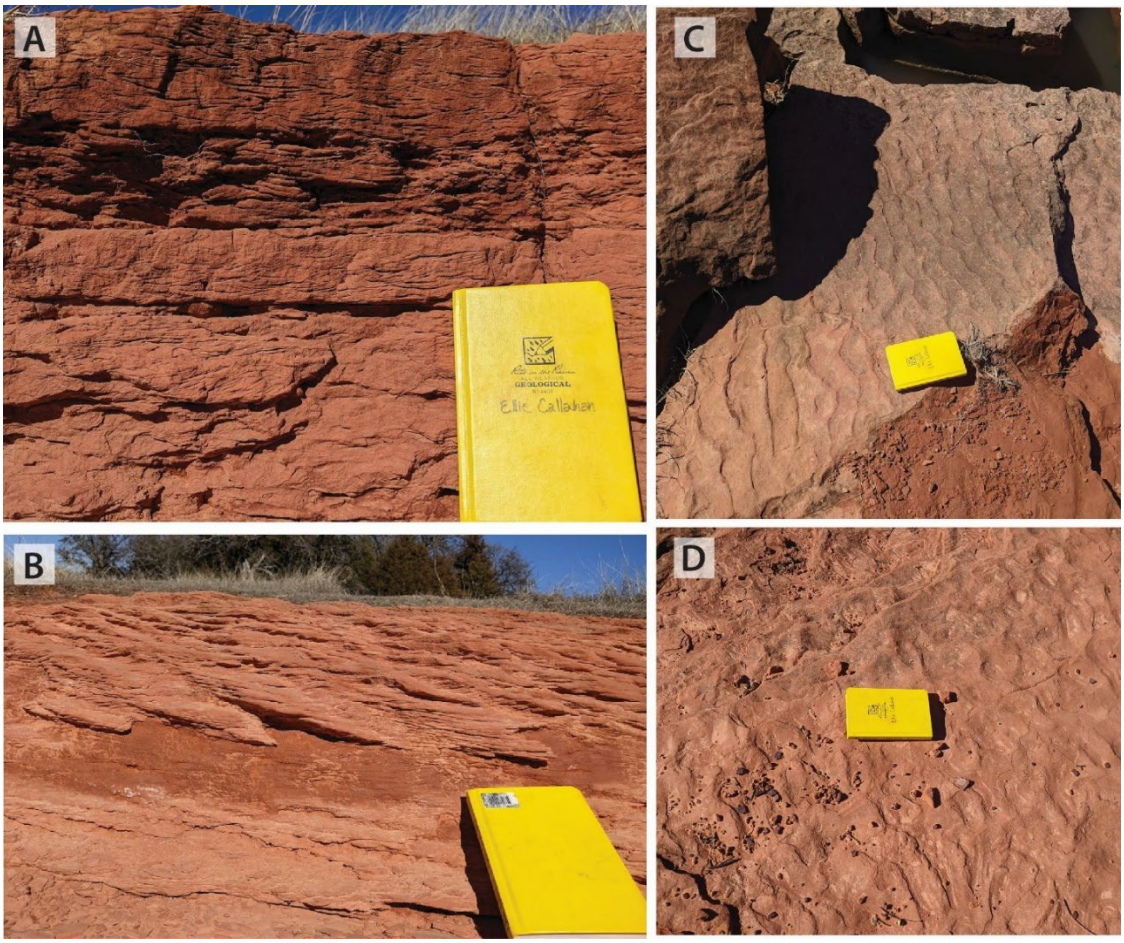


Fig. 4: Ripple laminated facies (Sr). **A)** Small cross-section view ripple laminations that become more abundant near the top of the outcrop. **B)** Large cross section view of climbing ripples. **C)** Asymmetrical plan-view current ripples. **D)** Lunate/lingoid plan-view ripples.

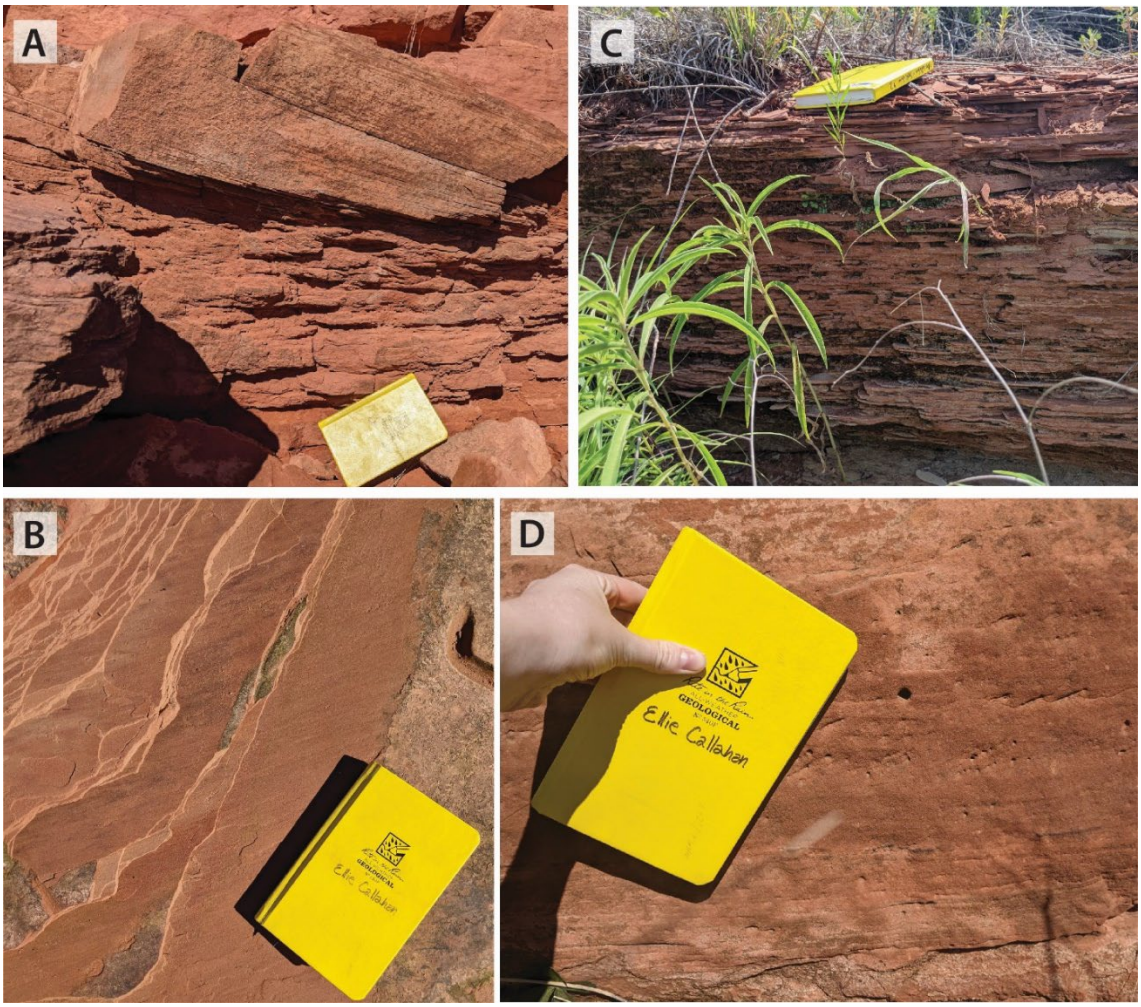


Fig. 5: Planar laminated sandstone facies (Sh). **A)** Wedge of thick low angle cross beds above planar laminated sandstone. **B)** Thickly laminated sandstone with parting lineations and flaggy appearance. **C)** Thickly laminated very fine sandstone with pale green laminations as base and no parting lineations on bedding planes. **D)** Planar laminated sandstone grading to small cross ripple laminations.

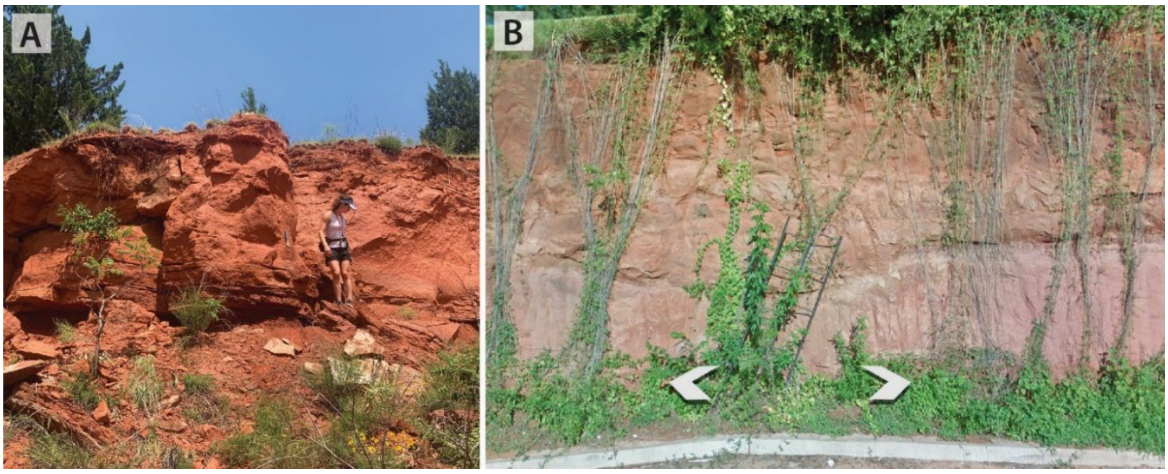


Figure 6: Massive sandstone (Sm). Outcrops near Edmond, OK. **A)** Large lenticular shaped outcrop atop sandy mudstone. Light green sand layer between massive sandstone and massive mudstone. **B)** Massive sandstone scoured by amalgamated massive sandstone and cross-bedded sandstone. Image from Google Earth.

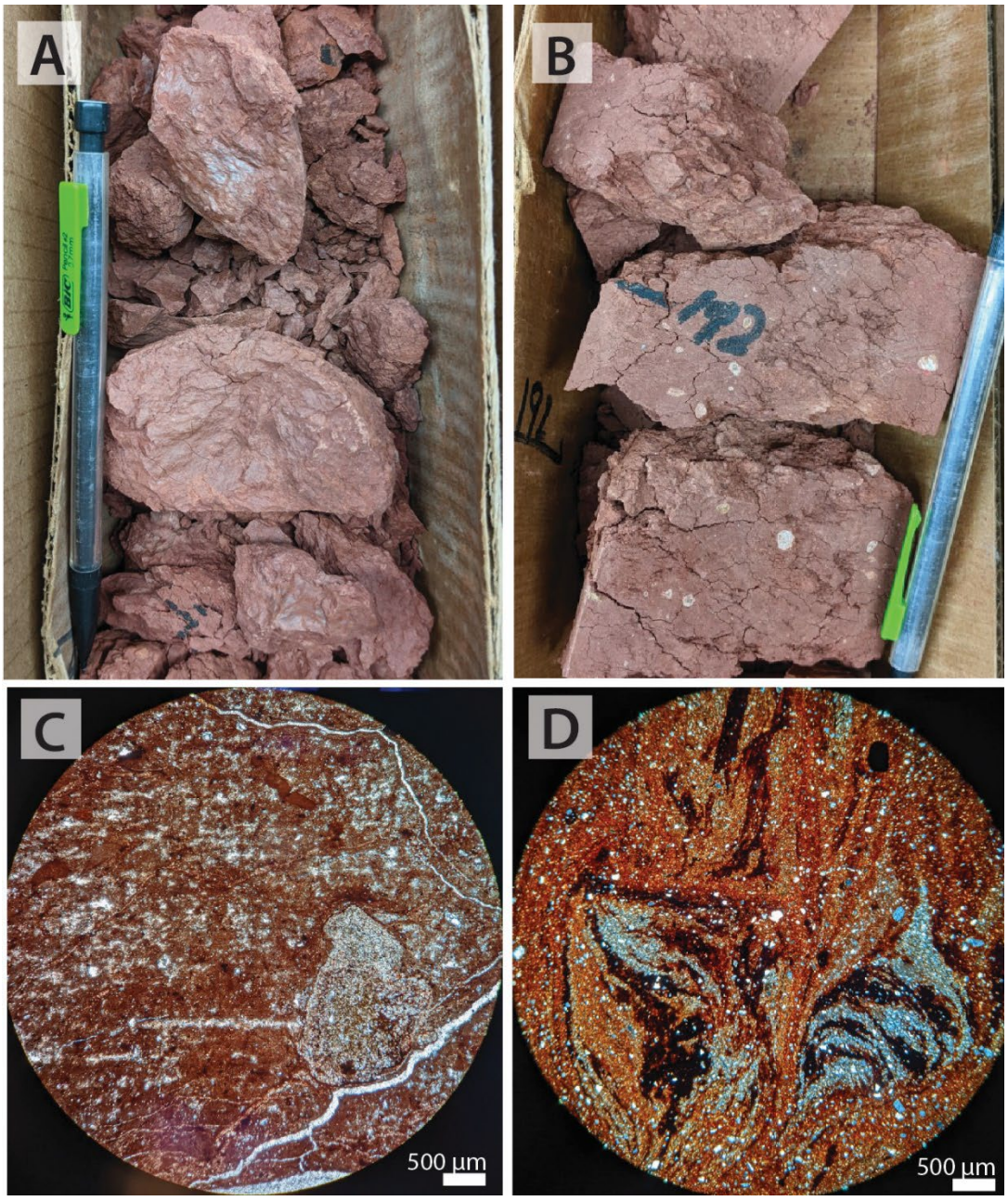


Figure 7: Mudstone (Fm) in core. **A)** Mudstone in core exhibiting small Mn-Fe coated slickensides and wedge-shaped peds. **B)** Fractured mudstone in core with small carbonate nodules. **C)** Thin section view of mudstone with weakly developed clinobimasepic fabric. **D)** Thin section view of mudstones without slickensides and with coarse poorly sorted silt and an iron oxide clay matrix. Chaotic bedding interpreted to be bioturbation.

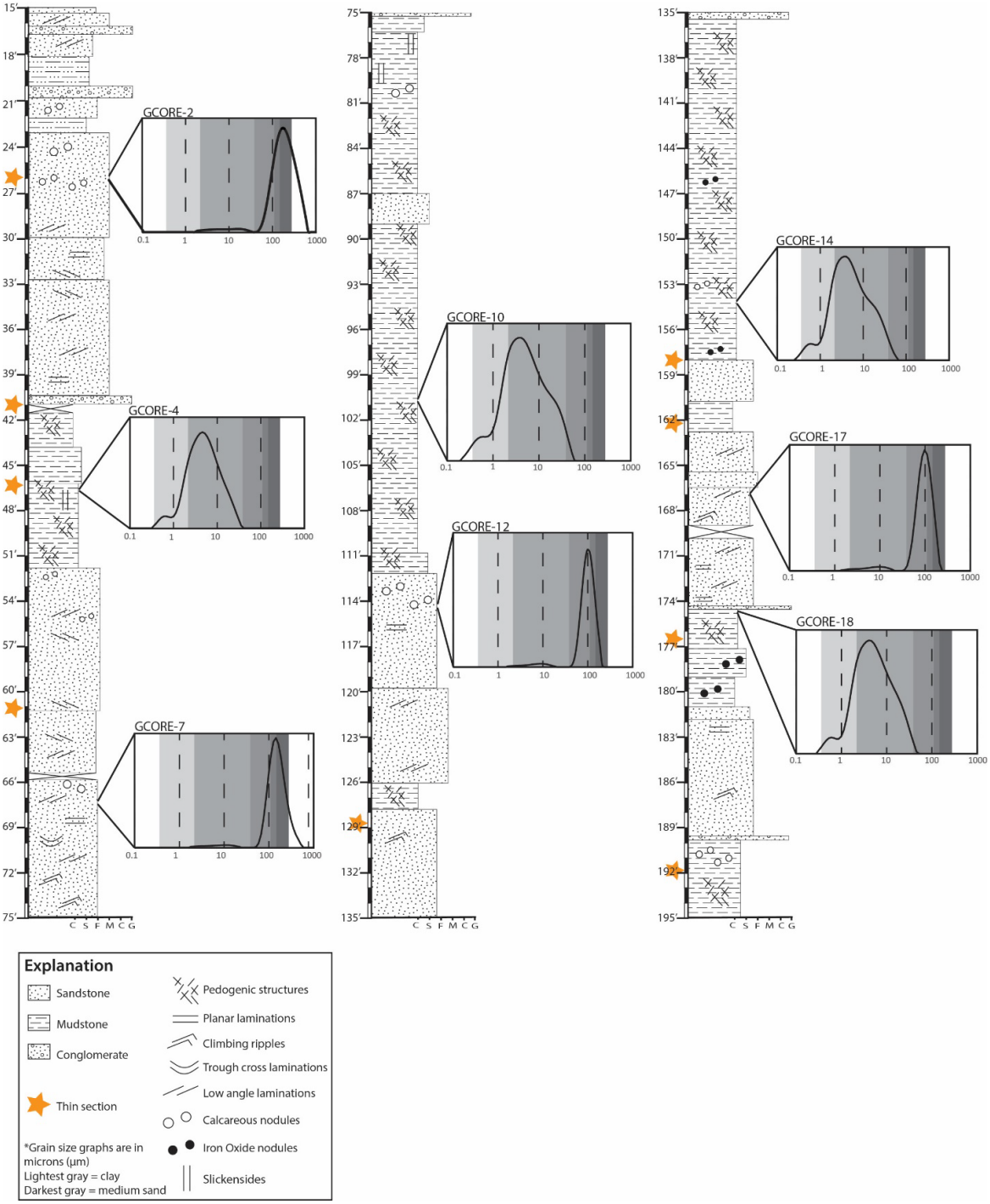


Fig. 8: Core log of NOTS Hole 3 drilled by the USGS (35°40'28.1"N 97°22'49.8"W). Grain size plots show volume percent of grain size in micrometers and stars denote thin section sampling locations.

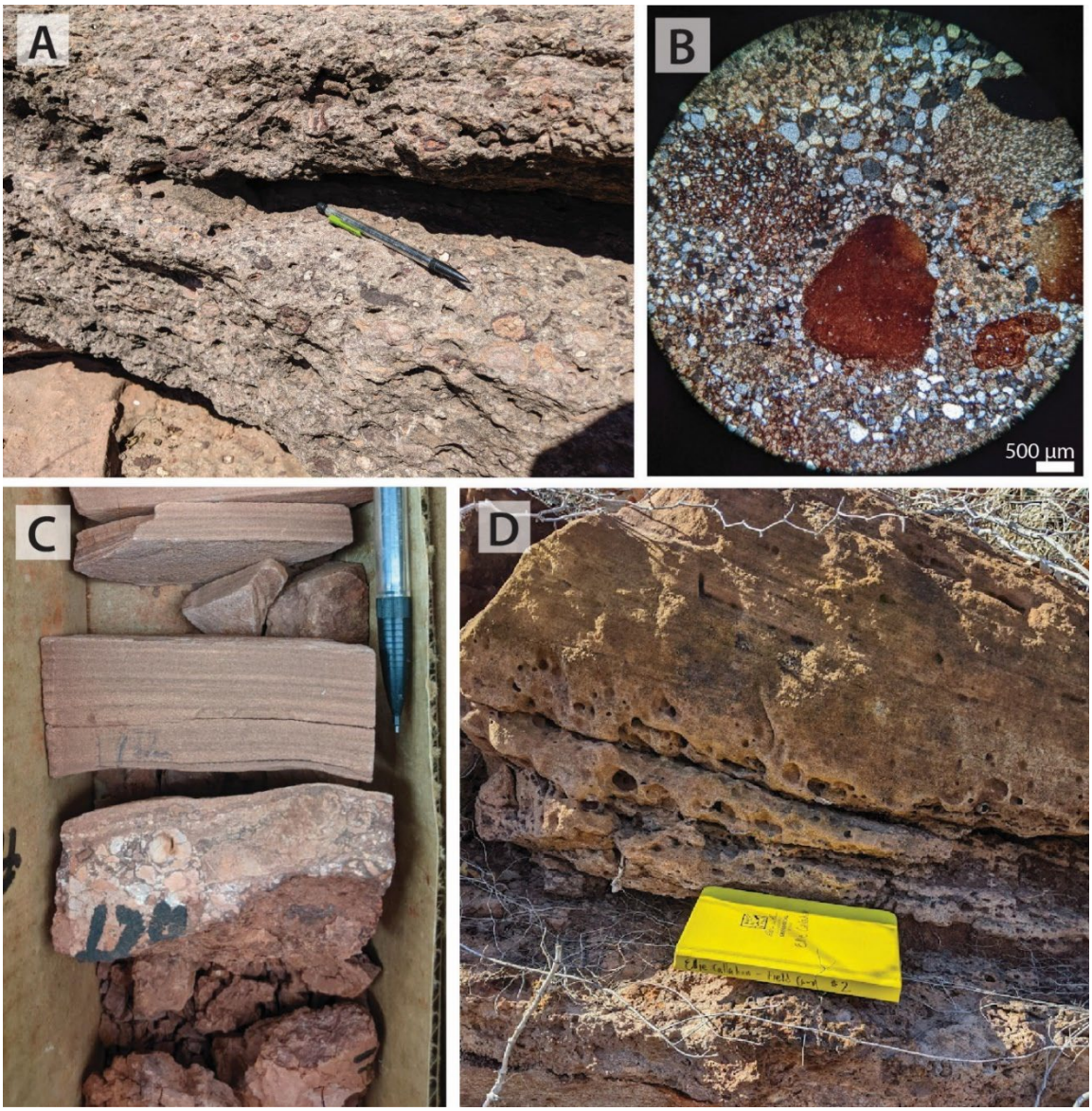


Figure 9: Conglomerate facies (Gm). **A)** Crudely bedded conglomerate bed typical of Lake Arcadia outcrops. **B)** Thin section (XPL) with several sedimentary rock fragments. **C)** Thin erosive conglomerate with intraclasts typical in core. **D**) Thick, crudely bedded conglomerate that grades upward into low-angle planar cross-bedded sandstone

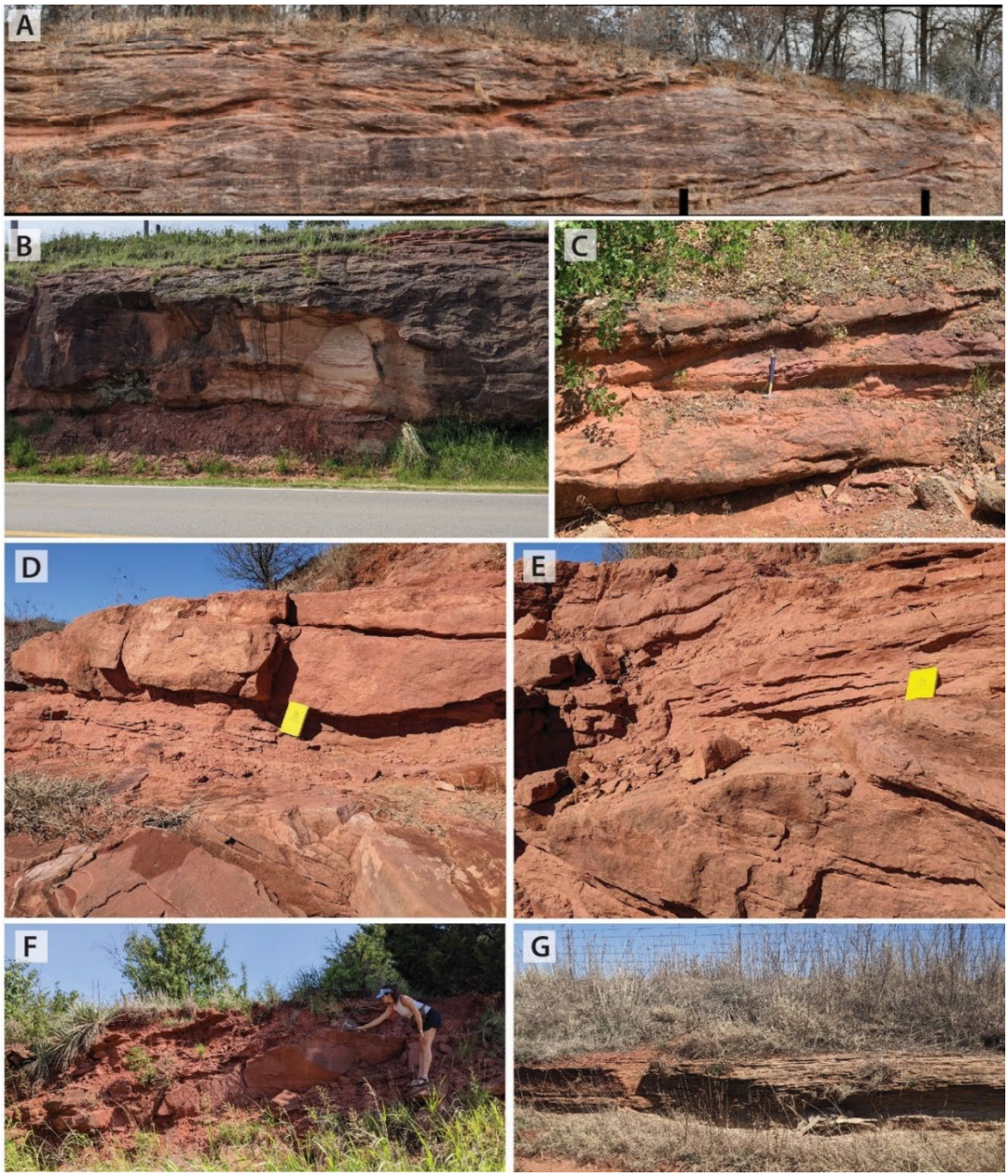


Fig. 10: Pictures of some of the largest outcrops observed. **A)** Amalgamated sandstone with a lower erosive contact that is convex up. Near Lake Thunderbird. **B)** Outcrop with exposed large low angle tabular cross beds and trough cross beds that lie erosively above massive mudstone. Near Lake Thunderbird. **C)** Semi-amalgamated thin lenticular sand bodies that are internally ripple laminated. North of Lake Arcadia. **D and E)** Weakly laminated sigmoidal sand bodies that are semi-amalgamated. North shore of Lake Arcadia. **F)** Internally massive sandstone lens within friable sandy mudstone. Near Covington, OK. **G)** Thickly laminated very fine flaggy sandstone near Covington, OK.

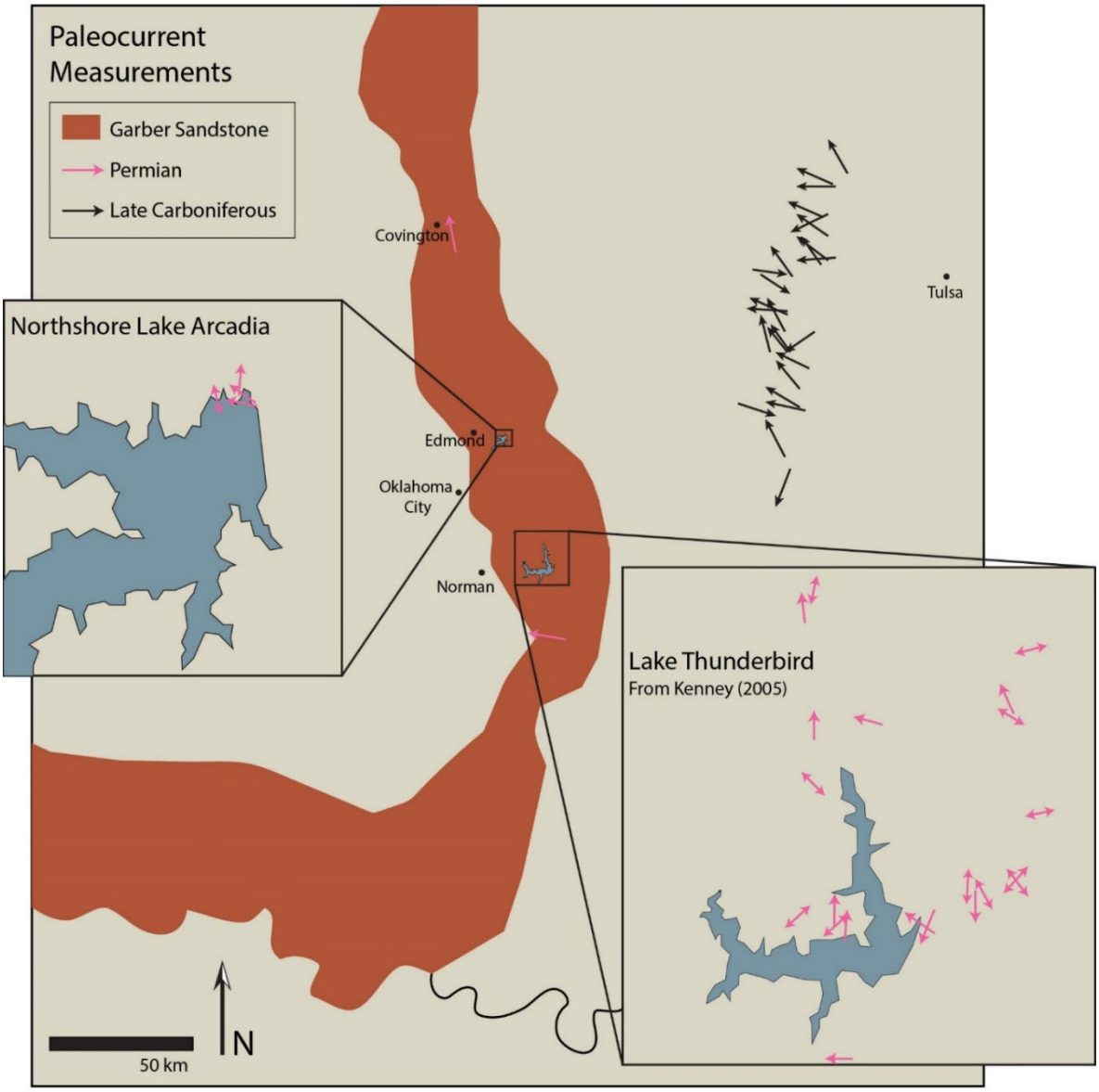


Fig. 11: Paleocurrent data from this study and Kenney (2005), and Late Carboniferous from Hirtz et al., (2021). Single arrows indicate confirmed unidirectional flow whereas two-sided arrows indicate flow indicators where flow cannot be constrained to one direction (i.e. parting lineations and some trough cross bed exposures).

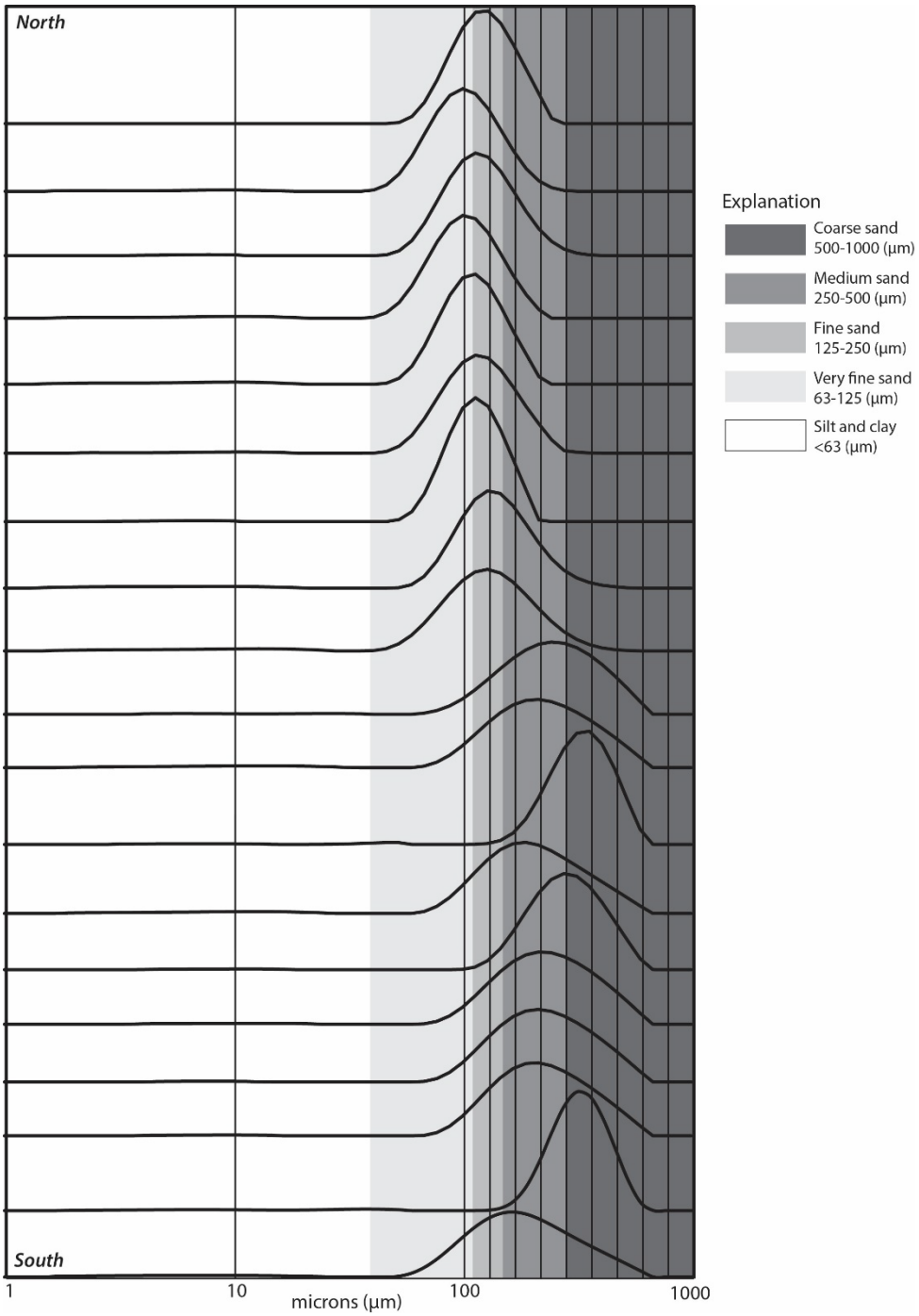


Fig. 12: Grain size histograms of representative sandstone facies in outcrops arranged by location on outcrop belt from south at the bottom to north at the top.

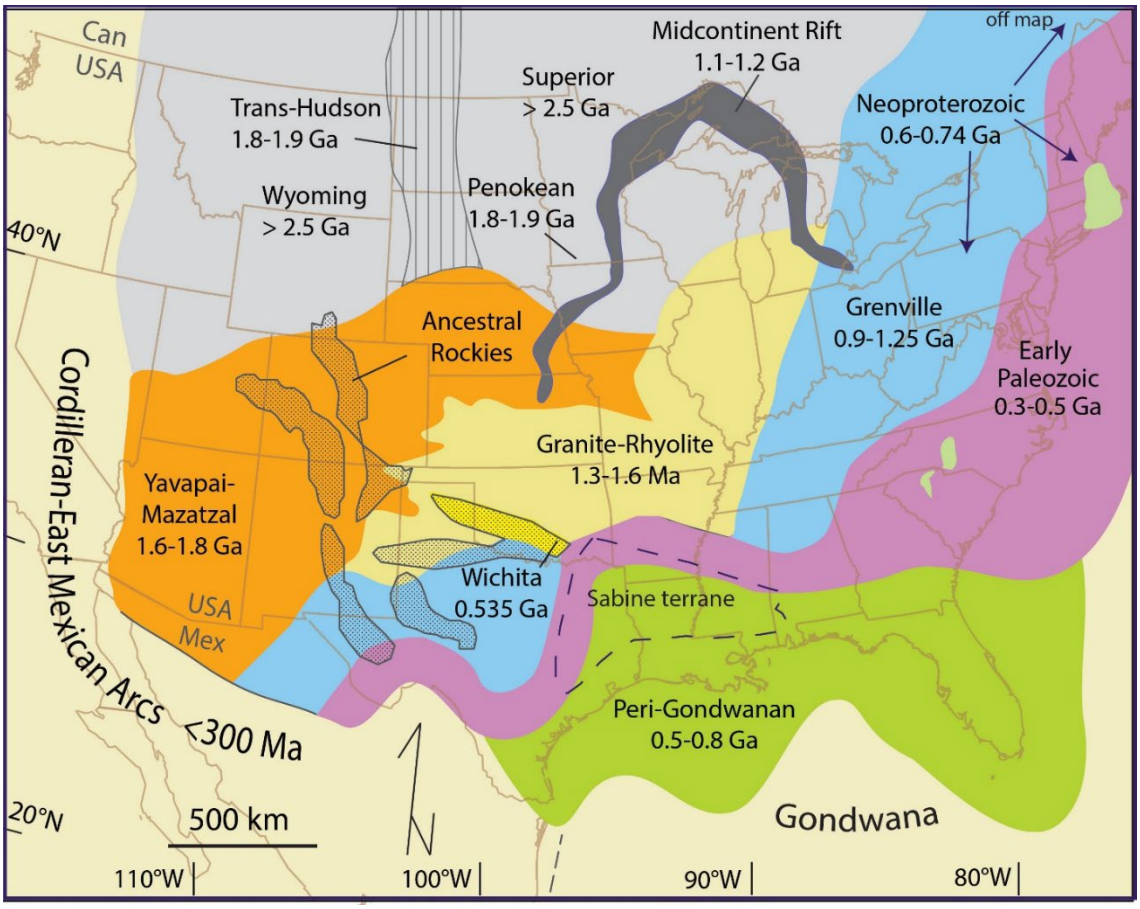


Fig 13. Map of basement terranes that supply primary zircons to the North American continent. Modified from Kushner et al. (2022). Dashed line highlights potential location of Sabine terrane at depth. Can – Canada, Mex – Mexico.

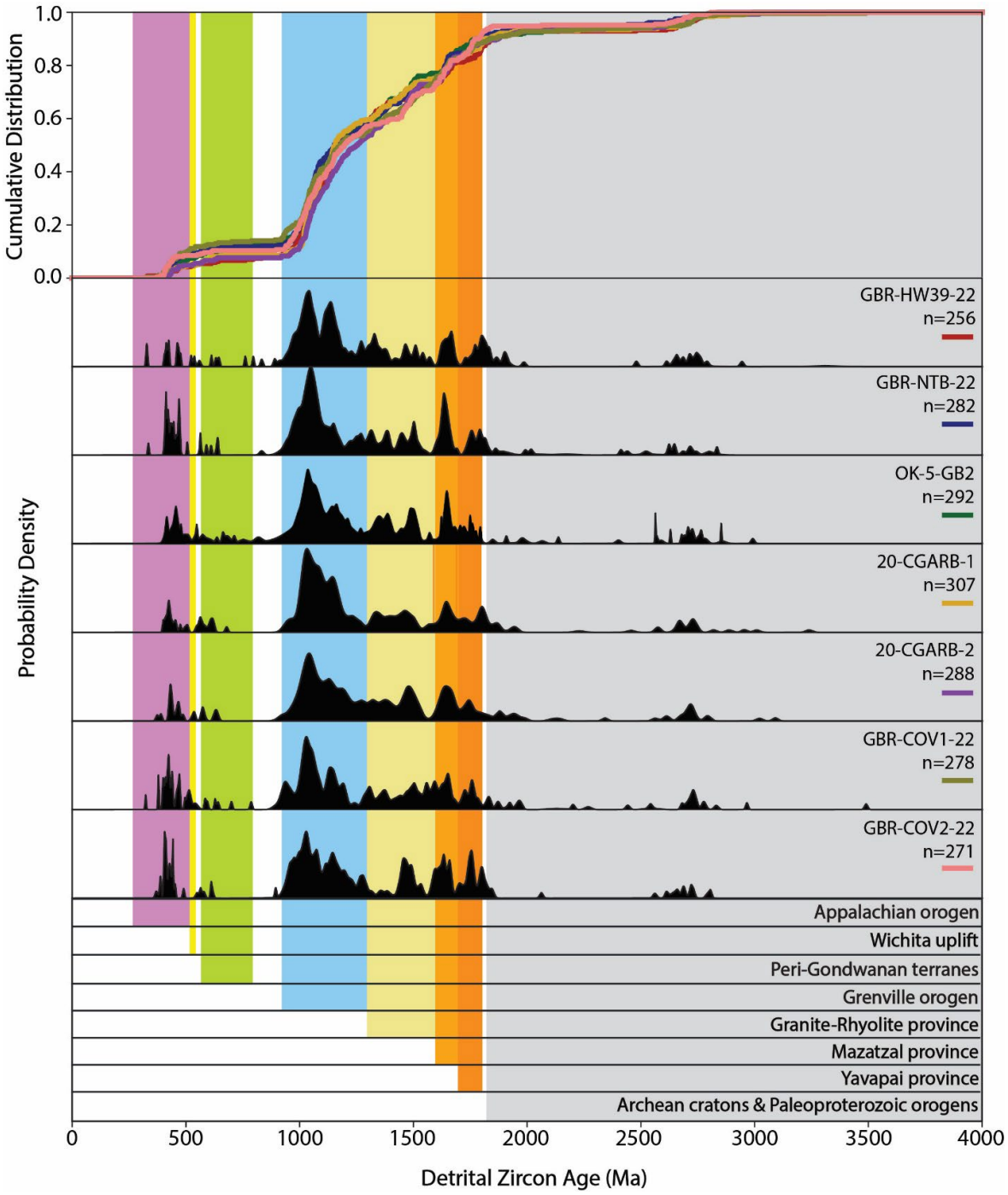


Fig 14: Cumulative probability plots and probability density plots display detrital zircon ages for six new Garber Sandstone samples and one published (OK-5-GB2, Thomas et al., 2021) sample. Colored bars show interpreted primary source regions matching the colors of basement terranes in Figure 5. Number of concordant grains (n) reported for each sample.

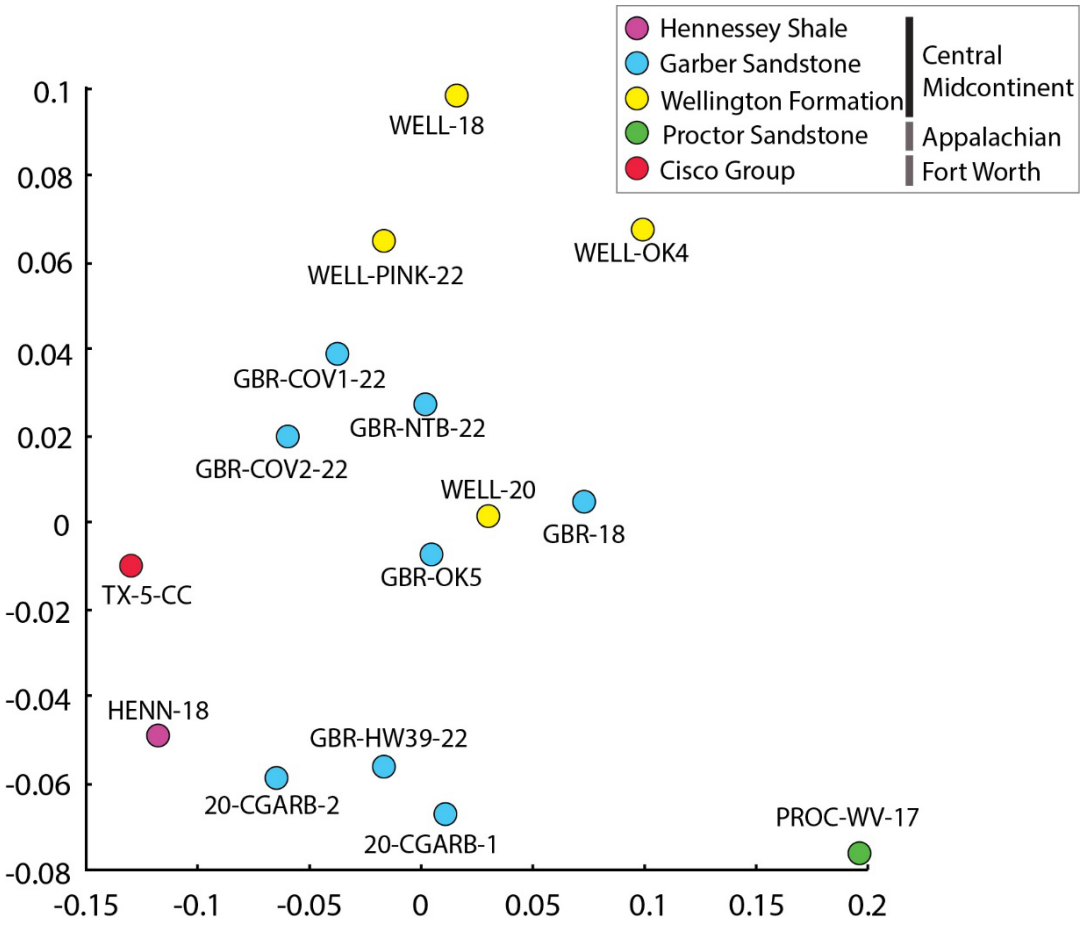


Fig. 15: Multidimensional scaling plot of Lower Permian samples including the Sumner Group samples (this study; Soreghan et al., 2018; Thomas et al., 2021), Proctor Sandstone (Appalachian – Thomas et al., 2017) and Cisco Group sandstone (Fort Worth – Thomas et al., 2021). Created using the Kolmogorov-Smirnov statistical test to calculate similarities between samples.

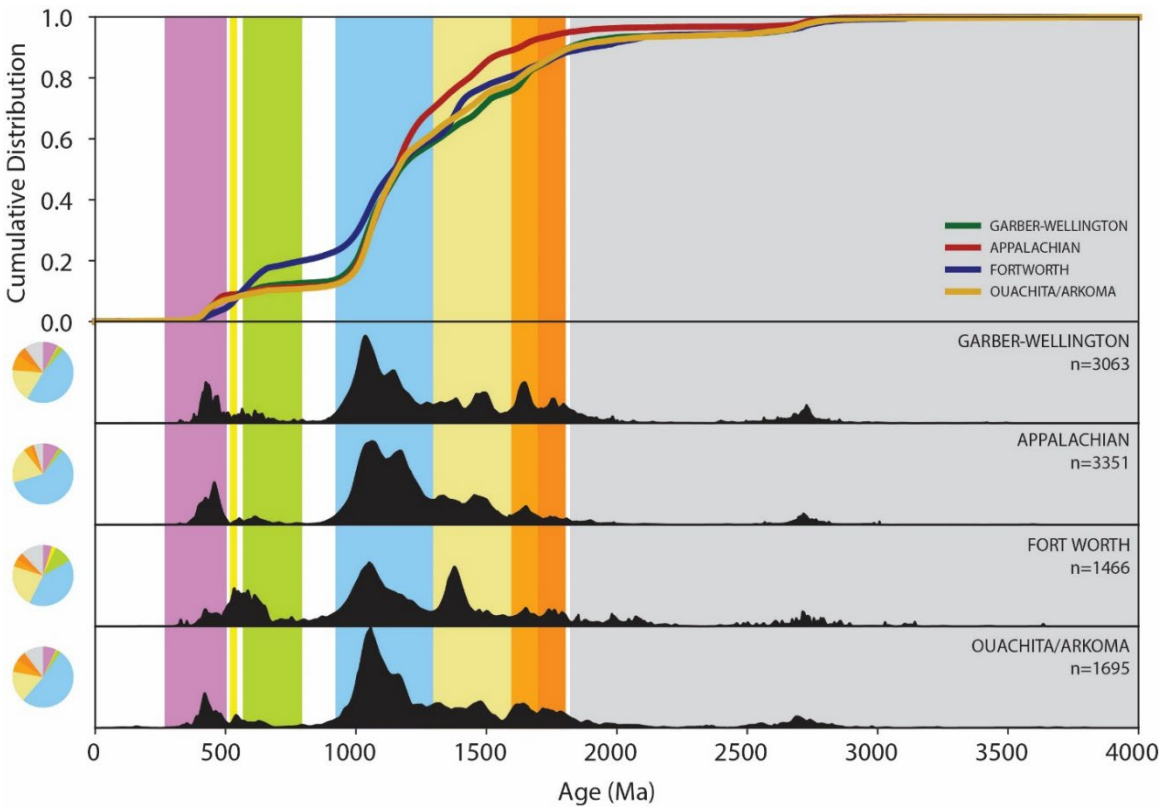


Fig. 16: Cumulative probability plots probability density plots, and pie charts display detrital zircon ages of compiled major Late Paleozoic basins along the Appalachian-Ouachita-Marathon margin. Vertical colored bars correlate to same ages and terranes as shown in Figure 6 and 5. Colors of the pie chart also correspond to same color scheme. Number of concordant grains (n) reported for each sample. Appalachian samples data is from Park et al., (2010) and Thomas et al., (2017); Fort Worth samples are from Alsalem et al., (2018) and Thomas et al., (2021); and Ouachita/Arkoma samples are from McGuire, (2017), Sharrah, (2006) and Thomas et al., (2021). Wellington-Garber samples are from this study, Thomas et al., (2021) and Soreghan et al., (2018).

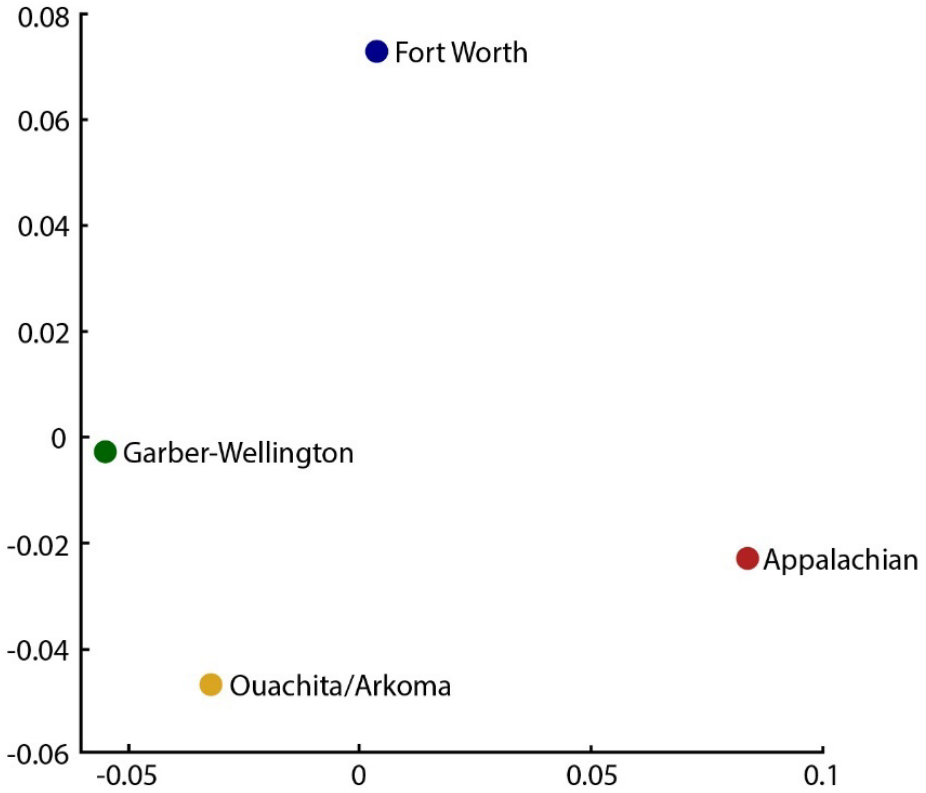


Fig. 17: Multidimensional scaling plot of Late Paleozoic samples Appalachian samples are from Park et al., (2010) and Thomas et al., (2017); Fort Worth samples are from Alsalem et al., (2018) and Thomas et al., (2021); and Ouachita/Arkoma samples are from McGuire, (2017), Sharrah, (2006) and Thomas et al., (2021). Wellington-Garber samples are from this study, Thomas et al., (2021) and Soreghan et al., (2018). Created using the Kolmogorov-Smirnov statistical test to calculate similarities between samples.

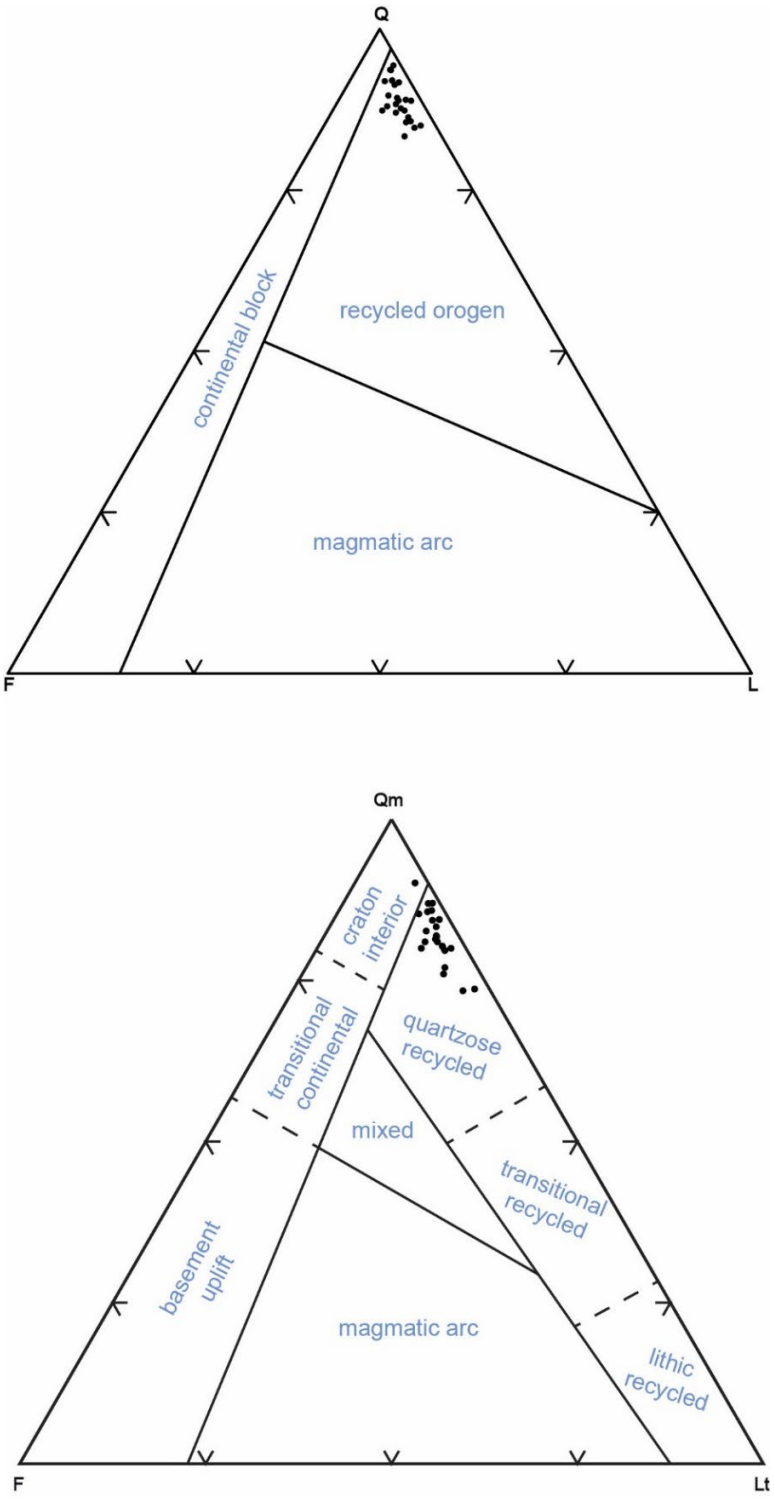


Fig. 18: QFL and QmFLt plots from Dickinson (1983) highlight tectonic provenance sources for Garber sandstone samples counted using the Gazzi-Dickinson method.

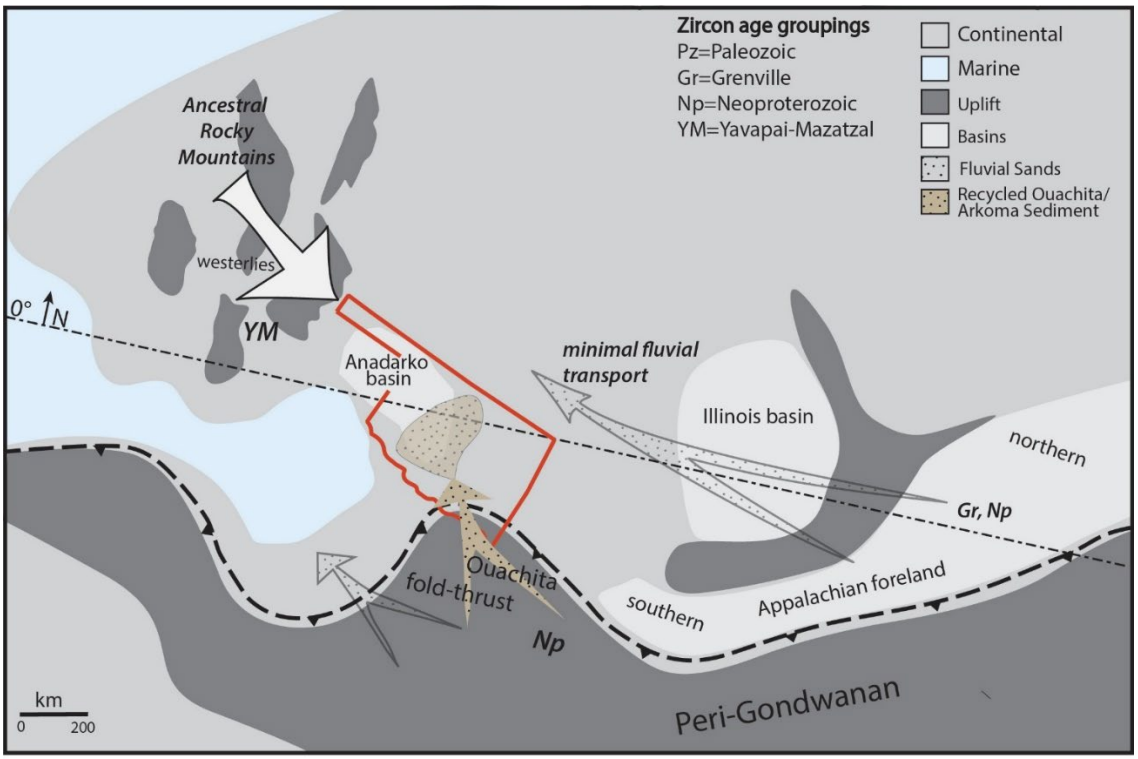


Fig. 19: Kungurian reconstruction of potential fluvial pathway and deposition of the Garber Sandstone, modified from Soreghan et al., (2018). Oklahoma outlined in red. Paleoequator shown with dashed and dotted line. Uplifts show in dark gray, and basins shown in light gray. Medium gray represents continental land cover and light blue represents extent of shallow seas. Sands shown with stippling and stippled arrows show fluvial sediment transport. White arrow represents westerlies. Garber Sandstone transport and deposition shown in light brown stippled pattern. Zircon age groupings are Pz = Paleozoic, Gr = Grenville, Np = Neoproterozoic, YM = Yavapai-Mazatzal.

FACIES	GRAIN SIZE	COLOR	FEATURES	ENVIRONMENT INTERPRETATION
Sandstone Lithofacies				
Cross-bedded Sandstone	very fine to medium	Red, red-orange, and buff	Trough and tabular x-beds troughs large (1m wide, 20 cm tall), tabular x-beds vary in height from ~2-30cm	Subaqueous migration of 3D sandy bedforms and barforms downstream. Under unidirectional low flow regime conditions.
Rippled Sandstone	very fine to fine	Red - orange	Asymmetrical, sinuous crested, climbing, and lunate/lingoid ripples seen in plan view. Ripple laminations frequent in outcrop	Subaqueous migration of ripples in unidirectional flow, lower flow regime, climbing ripples indicate rapid decrease from high to low flow regime.
Planar laminated Sandstone	very fine to medium	Red-orange, buff, and rarely pale green	Very thin (.1cm) to thickly (1cm) laminated, +/- parting lineations, horizontal and low angle	Subaqueous unidirectional flow, parting lineations associated with high flow regime, no parting lineations associated with low flow regime.
Massive Sandstone	very fine to fine	Buff - light red	~2m very thickly bedded, occasionally beneath scoured surface with x-bedded facies	Subaqueous rapid deposition of sand from sediment laden flows resulting from a sudden decrease in flow velocity.
Mudstone Lithofacies				
Massive Mudstone	coarse silt	Orange, red, and light brown	Friable, tends to outcrop beneath cross beds and scoured by thin conglomerate deposits	Quiescent distal floodplain deposition either from flooding or from aeolian sedimentation.
Pedogenic Intervals within Mudstone	very fine silt to clay	Orange - dark red	Blocky angular peds, small slickensides, calcium carbonate and iron hydroxide nodules	Soil development associated with pedogensis indicates subaerial landscape stability with little sedimentation.
Conglomerate Lithofacies	sand to pebbles	Light brown, tan, and gray	Matrix supported, thin (3cm) to medium (20cm) bedded	High velocity flooding events depositing unstratified gravel. Scouring and intraformation clasts indicate erosion and rip-up clast deposition associated with high energy events.

Table 1: Summary of main facies and associated sedimentological character of the Garber Sandstone.

Q	F	L		Qm	F	Lt
94.33	1.00	4.67		87.00	1.00	12.00
91.70	1.58	6.72		86.96	1.58	11.46
93.66	1.76	4.58		90.14	1.76	8.10
92.00	2.33	5.67		83.33	2.33	14.33
88.85	1.35	9.80		84.46	1.35	14.19
93.60	1.68	4.71		85.86	1.68	12.46
89.30	3.01	7.69		81.94	3.01	15.05
87.00	4.33	8.67		77.00	4.33	18.67
88.89	3.03	8.08		81.82	3.03	15.15
88.33	3.67	8.00		85.33	3.67	11.00
89.67	4.00	6.33		82.67	4.00	13.33
85.52	3.70	10.77		73.40	3.70	22.90
91.89	3.38	4.73		81.42	3.38	15.20
89.00	2.00	9.00		80.00	2.00	18.00
87.33	3.00	9.67		80.33	3.00	16.67
91.33	2.33	6.33		84.33	2.33	13.33
92.00	2.33	5.67		85.67	2.33	12.00
87.33	6.00	6.67		80.00	6.00	14.00
85.00	2.00	13.00		73.67	2.00	24.33
88.00	5.00	7.00		81.00	5.00	14.00
83.33	5.00	11.67		76.00	5.00	19.00
85.67	3.00	11.33		79.67	3.00	17.33
84.67	3.00	12.33		79.67	3.00	17.33
87.67	3.33	9.00		81.00	3.33	15.67
86.29	3.01	10.70		80.27	3.01	16.72

Table 2: Model mineral framework percentages – listed north to south. Q – quartz, F – feldspar, L – lithics; Qm – monocrystalline quartz, F – feldspar, Lt – total lithics.

Sample Name	*Total Grains*	Grenville %	Yavapai-Mazatzal %	Appalachian %	Peri-Gondwanan %	Wichita %
GBR-COV2-22	271.00	46.86	21.03	8.49	1.11	0.00
GBR-COV1-22	278.00	42.09	15.47	9.71	2.16	1.44
20-NGARB-2	288.00	47.57	15.97	4.86	2.08	0.69
20-NGARB-1	307.00	51.47	14.98	4.89	3.26	0.33
OK-5-GB2	292.00	45.55	13.70	6.85	4.11	1.37
GBR-NTB-22	282.00	47.16	16.67	9.22	2.13	0.00
GBR-HW39-22	256.00	51.95	13.67	4.30	1.56	0.78

Table 3: Detrital zircon percentages for major interpreted source regions in Garber Sandstone samples – listed north to south. Includes sample from Thomas et al. (2021) (OK-5-GB2).

APPENDIX I – *Sampling Information*

Sample name	Lat/Long	Detrital Zircon	Thin Section	LPSA
GBR-COV1-22	36.188352/-97.5586468	X	X	X
GBR-COV2-22	36.355417/-97.532212	X	X	X
GBR-HW39-22	35.015181/-97.186228	X	X	X
GBR-NTB-22	35.3628708/-97.2529394	X		X
20-CGARB-1	35.812289/-97.416033	X		
20-CGARB-2	35.928802/-97.381885	X		
22-CGARB-3	35.222225/-97.321326		X	X
22-CGARB-4	35.232451/-97.246526		X	X
22-CGARB-5	35.319193/-97.231237		X	X
22-CGARB-6	35.260726/-97.10661		X	X
22-CGARB-7	35.171619/-97.177343		X	X
22-NGARB-3a	36.173867/-97.571429		X	X
22-NGARB-3b	"		X	X
22-NGARB-4a	36.188463/-97.541304		X	X
22-NGARB-4b	"		X	X
22-NGARB-4c	"		X	X
22-NGARB-5a	36.223822/-97.514331		X	X
22-NGARB-5b	"		X	
22-NGARB-6	36.225092/-97.514317		X	X
22-NGARB-7a	36.296455/-97.519906		X	X
22-NGARB-7b	"		X	X
22-CGARB-8a	35.6528429/-97.4097553		X	X
22-CGARB-8b	"		X	X
22-CGARB-8c	"			
22-CGARB-9a	35.708374/-97.389317		X	X
22-CGARB-9b	"		X	X
22-CGARB-10	35.7256305/-97.5671752		X	X
22-CGARB-11	35.65/-97.365			X
22-SGARB-1a	34.4799699/-97.5082558		X	X
22-SGARB-1b	"			X
22-SGARB-1c	"			X
22-SGARB-2	34.450836/-97.509648		X	X

Core Samples	Depth (ft)	Thin Section	LPSA
22-GCORE-2	25.8	X	X
22-GCORE-3	40.9	X	
22-GCORE-4	46.2	X	X
22-GCORE-6	61.2	X	
22-GCORE-7	67		X
22-GCORE-10	100.9		X
22-GCORE-12	114.4		X
22-GCORE-13	128.8	X	
22-GCORE-14	154.5		X
22-GCORE-15	158	X	
22-GCORE-16	162.2	X	
22-GCORE-17	167.4		X
22-GCORE-18	175		X
22-GCORE-19	176.4	X	
22-GCORE-21	191.9	X	

Core Information
File S-092
66 Boxes
Depths 15-195 ft
35.674472/-97.3805

APPENDIX II – *Point Count Data*

Sample Name	Qm	Qp2-3	Q4>	P	K	Ls	Lm	Lv	Chert	Carb	Fe Oxide	Other
GBR-COV2-22	214	47	22	3	0	2	6	3	3	0	0	0
22-NGARB-7a	194	26	12	3	1	6	10	0	1	37	0	10
22-NGARB-7b	236	20	10	4	1	9	4	0	0	12	0	0
22-NGARB-6	212	38	26	4	3	2	11	0	4	0	0	0
22-NGARB-5a	227	23	13	4	0	5	22	1	1	0	4	0
22-NGARB-5b	229	26	23	4	1	3	10	0	1	0	3	0
22-NGARB-4a	228	17	22	4	5	10	11	0	2	0	1	0
22-NGARB-4b	195	36	30	7	6	14	12	0	0	0	0	0
22-NGARB-4c	192	51	21	5	4	11	10	1	2	0	3	0
GBR-COV1-22	239	17	9	7	4	14	9	1	0	0	0	0
22-NGARB-3a	212	36	21	7	5	6	7	3	3	0	0	0
22-NGARB-3b	167	51	36	6	5	5	24	1	2	0	3	0
22-CGARB-10	210	31	31	2	8	2	8	1	3	4	0	0
22-CGARB-9a	217	23	27	3	3	3	19	3	2	0	0	0
22-CGARB-9b	217	24	21	7	2	7	17	4	1	0	0	0
22-CGARB-8a	236	17	21	5	2	3	11	2	3	0	0	0
22-CGARB-8b	238	19	19	5	2	8	6	0	3	0	0	0
22-CGARB-5	218	22	22	11	7	16	4	0	0	0	0	0
22-CGARB-6	186	35	34	3	3	23	7	2	7	0	0	0
22-CGARB-4	212	31	21	9	6	18	1	0	2	0	0	0
22-CGARB-3	191	37	22	8	7	22	12	1	0	0	0	0
22-CGARB-7	227	12	18	7	2	10	22	0	2	0	0	0
GBR-HW39-22	211	28	15	7	2	19	12	1	5	0	0	0
22-SGARB-1a	224	19	20	7	3	15	2	1	9	0	0	0
22-SGARB-2	222	18	18	2	7	19	8	1	4	0	1	0

APPENDIX III – *Detrital Zircon U-Pb Geochronology Data*

20-CGARB-1

Sample	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±	Conc
	204Pb		207Pb*	(%)	235U	(%)	238U	(%)	corr.	238U	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)
20-CGARB-1	18571.7	1.69902	12.2807	6.22628	0.79211	6.35085	0.07097	1.18382	0.1864	442.007	5.05719	592.366	28.5099	1220.12	122.744	442.007	5.05719	36.2265
20-CGARB-1	69140.4	2.40768	16.3937	1.87605	0.56768	2.21876	0.06735	1.18042	0.53202	420.167	4.80154	456.511	8.1582	643.891	40.4026	420.167	4.80154	65.2543
20-CGARB-1	71249.3	4.5864	17.1621	1.28394	0.45706	2.02095	0.05682	1.56057	0.7722	356.238	5.40852	382.214	6.43709	542.727	28.0937	356.238	5.40852	65.6385
20-CGARB-1	32844.2	1.94501	15.746	2.53536	0.68319	3.01896	0.07839	1.63578	0.54184	486.484	7.66497	528.702	12.4428	715.358	53.9055	486.484	7.66497	68.0056
20-CGARB-1	41022.6	1.82241	16.8082	1.6869	0.5416	1.89311	0.06611	0.85851	0.45349	412.7	3.43205	439.478	6.75334	582.255	36.6411	412.7	3.43205	70.8796
20-CGARB-1	176786	1.27242	17.2424	1.62521	0.54827	2.10857	0.0685	1.34341	0.63712	427.093	5.55168	443.862	7.58182	531.772	35.6054	427.093	5.55168	80.3151
20-CGARB-1	26306.7	3.25424	11.4905	1.96986	2.24741	2.27257	0.18868	1.09063	0.47991	1114.2	11.1597	1195.98	15.9708	1346.9	38.4954	1346.9	38.4954	82.7236
20-CGARB-1	61382.1	2.2141	13.7339	0.92383	1.48206	1.6308	0.14764	1.34378	0.824	887.738	11.1443	923.074	9.88774	1008.47	18.7409	1008.47	18.7409	88.0282
20-CGARB-1	28721.1	2.64596	11.1219	0.81675	2.68716	1.95417	0.21734	1.75441	0.89778	1267.79	20.1918	1324.93	14.4618	1418.54	16.4539	1418.54	16.4539	89.3733
20-CGARB-1	104392	1.89326	17.536	1.22365	0.55659	1.71693	0.07079	1.20436	0.70146	440.928	5.13281	449.302	6.23373	492.387	26.9734	440.928	5.13281	89.5491
20-CGARB-1	176609	3.44404	16.5043	1.41654	0.75769	1.82648	0.09077	1.15299	0.63126	560.081	6.1851	572.676	7.9947	622.968	30.5328	560.081	6.1851	89.9052
20-CGARB-1	37514.9	2.0551	16.4211	1.42265	0.76515	1.7594	0.09148	1.03345	0.58739	564.266	5.58348	576.977	7.74403	627.332	30.7055	564.266	5.58348	89.947
20-CGARB-1	316412	1.89111	7.16123	1.30422	7.09925	1.92387	0.36752	1.41431	0.73514	2017.7	24.5023	2123.95	17.1244	2228.42	22.5839	2228.42	22.5839	90.5441
20-CGARB-1	30537.2	3.77204	11.51	1.46551	2.51116	1.79247	0.20991	1.03202	0.57576	1228.35	11.5423	1275.27	13.0176	1355.23	28.2628	1355.23	28.2628	90.6372
20-CGARB-1	20787.6	1.44261	6.25004	1.04069	9.09979	1.91436	0.41247	1.60676	0.83932	2226.21	30.2474	2348.09	17.5153	2455.71	17.5964	2455.71	17.5964	90.6545
20-CGARB-1	56030.5	3.46591	13.6107	1.2272	1.55716	1.75137	0.15442	1.24539	0.71109	925.707	10.7391	953.341	10.8293	1017.66	24.9369	1017.66	24.9369	90.9642
20-CGARB-1	124346	1.5048	17.7002	1.33045	0.54227	1.84558	0.06956	1.27847	0.69272	433.493	5.35985	439.919	6.58907	473.703	29.4447	433.493	5.35985	91.5115
20-CGARB-1	101491	3.32864	5.83908	0.81198	10.5395	1.25317	0.44439	0.95452	0.76169	2370.26	18.9314	2483.4	11.6223	2577.29	13.5666	2577.29	13.5666	91.9669
20-CGARB-1	170493	2.21297	12.9326	1.48063	1.87842	2.02189	0.17596	1.37685	0.68097	1044.86	13.2807	1073.51	13.3983	1132.15	29.4622	1132.15	29.4622	92.2898
20-CGARB-1	77278.7	0.89075	17.1255	1.07917	0.65973	1.53006	0.0818	1.08426	0.70864	506.866	5.28526	514.452	6.17554	548.314	23.599	506.866	5.28526	92.4408
20-CGARB-1	43834	1.08796	13.3344	0.92614	1.71717	1.52689	0.16606	1.20081	0.78644	990.342	11.0237	1014.97	9.79823	1068.51	18.9468	1068.51	18.9468	92.684
20-CGARB-1	256161	0.98563	17.8393	2.4969	0.52765	2.74865	0.06817	1.14916	0.41808	425.127	4.72776	430.246	9.64012	457.75	55.4008	425.127	4.72776	92.8733
20-CGARB-1	812663	20.8592	9.10275	1.00347	4.52853	1.68639	0.29793	1.35535	0.8037	1681.02	20.0554	1736.23	14.027	1803.38	18.2492	1803.38	18.2492	93.2148
20-CGARB-1	500012	4.14704	8.47776	1.04558	5.24271	1.97285	0.32188	1.67299	0.84801	1798.9	26.2613	1859.59	16.8247	1928.11	18.7313	1928.11	18.7313	93.2986
20-CGARB-1	106316	6.97779	12.4452	0.91844	2.13014	1.54502	0.19169	1.24212	0.80395	1130.55	12.8803	1158.63	10.6764	1211.52	18.1022	1211.52	18.1022	93.316
20-CGARB-1	48303.3	1.87433	11.4794	1.18792	2.6259	1.63948	0.2186	1.1275	0.68772	1274.48	13.0384	1307.92	12.0564	1363.17	22.9269	1363.17	22.9269	93.4936
20-CGARB-1	558580	0.96135	13.6259	1.02505	1.64017	1.65667	0.16159	1.30147	0.7856	965.604	11.6711	985.779	10.4505	1030.95	20.7381	1030.95	20.7381	93.6611
20-CGARB-1	151025	1.99226	17.6385	1.02338	0.5737	1.53322	0.07318	1.14113	0.74427	455.279	5.01611	460.402	5.67544	486.047	22.596	455.279	5.01611	93.6698
20-CGARB-1	28286.7	0.96604	10.5787	1.51415	3.18815	1.86507	0.24623	1.07583	0.57683	1419.01	13.7028	1454.29	14.4169	1506.21	28.7825	1506.21	28.7825	94.2108
20-CGARB-1	104242	2.5405	13.7342	0.88386	1.61185	1.79637	0.16011	1.5638	0.87053	957.402	13.9131	974.827	11.2569	1014.28	17.9137	1014.28	17.9137	94.3919
20-CGARB-1	107784	2.27857	12.8441	0.93184	1.95244	1.34754	0.18201	0.97325	0.72224	1077.95	9.66095	1099.29	9.04857	1141.74	18.5118	1141.74	18.5118	94.413
20-CGARB-1	615557	3.84584	12.8189	0.93992	2.0025	1.45775	0.18514	1.11426	0.76437	1094.99	11.2211	1116.36	9.87223	1158.17	18.6616	1158.17	18.6616	94.5446
20-CGARB-1	169445	2.96317	13.1031	1.12985	1.8653	1.6378	0.17682	1.18567	0.72394	1049.57	11.4841	1068.87	10.8264	1108.44	22.5674	1108.44	22.5674	94.6883
20-CGARB-1	752948	1.62457	5.40232	0.92187	12.4847	1.59253	0.48774	1.29858	0.81542	2560.9	27.4443	2641.57	14.9722	2703.96	15.218	2703.96	15.218	94.7092
20-CGARB-1	73402.7	6.79055	16.626	0.77217	0.77768	1.54916	0.09374	1.34298	0.86691	577.644	7.42023	584.161	6.88147	609.553	16.6717	577.644	7.42023	94.7653
20-CGARB-1	122278	1.46639	10.0917	0.86469	3.65076	1.49528	0.26695	1.21972	0.81572	1525.29	16.5672	1560.68	11.9188	1608.87	16.1206	1608.87	16.1206	94.805
20-CGARB-1	18107.7	1.44606	13.1027	1.56267	1.80159	2.29067	0.17287	1.66284	0.72592	1027.89	15.7991	1046.03	14.9581	1084.12	31.5934	1084.12	31.5934	94.8131
20-CGARB-1	49216.4	3.01816	13.173	1.31246	1.82875	1.75643	0.1747	1.16576	0.66371	1037.93	11.176	1055.83	11.5303	1093.05	26.3003	1093.05	26.3003	94.9577
20-CGARB-1	21143.9	1.09184	16.1662	1.61325	0.85638	2.11412	0.10116	1.2764	0.60375	621.209	7.55907	628.143	9.90312	653.2	36.1759	621.209	7.55907	95.1024
20-CGARB-1	153627	1.42373	13.149	1.08238	1.85467	1.54392	0.17647	1.10069	0.71292	1047.68	10.6434	1065.09	10.1854	1100.95	21.6684	1100.95	21.6684	95.1612
20-CGARB-1	56546.2	2.59257	13.1664	0.9205	1.84961	1.35109	0.17616	0.98858	0.7317	1045.94	9.54477	1063.29	8.90469	1099.04	18.4449	1099.04	18.4449	95.1684
20-CGARB-1	61361.8	2.3865	11.2858	1.99278	2.79968	2.39894	0.22905	1.33553	0.55671	1329.52	16.0448	1355.45	17.9496	1396.57	38.2139	1396.57	38.2139	95.1988
20-CGARB-1	359786	1.17842	5.30685	0.73453	12.8871	1.6005	0.49615	1.42199	0.88847	2597.22	30.3987	2671.43	15.082	2728.09	12.0945	2728.09	12.0945	95.2027
20-CGARB-1	58554.7	1.32825	13.3116	1.28641	1.76631	1.83272	0.17089	1.30286	0.71089	1016.99	12.2576	1033.17	11.8826	1067.59	25.9265	1067.59	25.9265	95.26
20-CGARB-1	89585.8	5.51135	12.9184	1.22469	1.94967	1.68945	0.18253	1.16275	0.68824	1080.77	11.5697	1098.33	11.3392	1133.28	24.4	1133.28	24.4	95.3665
20-CGARB-1	129279	2.08438	11.0649	0.86847	2.94238	1.47504	0.23625	1.19206	0.80816	1367.2	14.6856	1392.89	11.1787	1432.43	16.5762	1432.43	16.5762	95.4458
20-CGARB-1	43920.1	2.46837	12.4719	1.32568	2.13637	1.89994	0.19389	1.35994	0.71578	1142.41	14.2373	1160.65	13.1415	1194.87	26.1582	1194.87	26.1582	95.6091
20-CGARB-1	375551	5.24637	9.36463	0.80973	4.37124	1.48117	0.29648	1.24024	0.83734	1673.85	18.2834	1706.92	12.2401	1747.73	14.8273	1747.73	14.8273	95.7724
20-CGARB-1	67611	4.71854	13.9087	0.89678	1.56213	1.30095	0.15749	0.93631	0.71971	942.788	8.21224	955.311	8.05406	984.245	18.3798	984.245	18.3798	95.7879
20-CGARB-1	612437	0.85874	10.2291	0.79515	3.61056	1.17821	0.26664	0.86943	0.73792	1523.71	11.7983	1551.86	9.36882	1590.38	14.8569	1590.38	14.8569	95.8081
20-CGARB-1	155890	2.368	9.81497	0.76857	3.94859	1.3564	0.28047	1.11755	0.82391	1593.71	15.7797	1623.7	10.9899	1662.78	14.2275	1662.78	14.2275	95.8463
20-CGARB-1	69683	1.55445	10.9884	1.28947	3.02052	1.87548	0.24056	1.3604	0.72536	1389.61	17.0056	1412.82	14.3077	1447.96	24.5823	1447.96	24.5823	95.9698
20-CGARB-1	123828	2.13889	14.2661	0.86035	1.45168	1.59879	0.14976	1.34749	0.84282	899.617	11.3144	910.569	9.6126	937.201	17.6253	937.201	17.6253	95.9898
20-CGARB-1	725515	2.19679	13.0044	1.04847	1.95656	1.73434	0.18351	1.38154	0.79658	1086.12	13.8092	1100.7	11.6544	1129.63	20.8834	1129.63	20.8834	96.1484
20-CGARB-1	40709.4	1.83734	13.4497	1.09714	1.74453	1.63355	0.1701	1.2098	0.7406	1012.68	11.3376	1025.14	10.5436	1051.85	22.136	1051.85	22.136	96.2766
20-CGARB-1	562459	2.40997	11.3391	0.88795	2.83217	1.48791	0.2318	1.19391	0.80241	1343.91	14.483	1364.1	11.166	1395.85	17.0269	1395.85	17.0269	96.2791
20-CGARB-1	293972	2.78817	18.1371	0.97902	0.50567	1.76262	0.06619	1.46566	0.83152	413.148	5.8654	415.536	6.01083	428.798	21.8287	413.148	5.8654	96.3503
20-CGARB-1	112474	2.79727	13.2452	0.80469	1.83982	1.60336	0.17633	1.3864	0.86468	1046.88	13.3968	1059.8	10.5478	1086.49	16.126	1086.49	16.126	96.3538
20-CGARB-1	1538775	2.71932	15.9093	1.0478	0.96311	1.43049	0.11107	0.97386	0.68079	678.973	6.27592	684.907	7.1261	704.463	22.2972	678.973	6.27592	96.3818
20-CGARB-1	269393	3.07968	11.0068	1.0561	3.03325	1.94562	0.24164	1.63403	0.83985	1395.22	20.5	1416.02	14.8584	1447.44	20.1107	1447.44	20.1107	96.3918
20-CGARB-1	99759.9	1.10526	5.57065	0.95516	12.1004	1.5881	0.48748	1.26874	0.79891	2559.76	26.8039	2612.22	14.8954	2653.13	15.8402	2653.13	15.8402	96.481
20-CGARB-1	2570823	1.06829	9.75821	0.94873	4.03654	1.31147	0.28488	0.90546	0.69042	1615.87	12.9415	1641.59	10.6728	1674.66	17.5335	1674.66	17.5335	96.4895
20-CGARB-1	112682	1.66654	9.56219	0.7395	4.18544	1.24569	0.29075	1.00196	0.80434	1645.26	14.5493	1671.17	10.2097	1703.86	13.6277	1703.86	13.6277	96.5607
20-CGARB-1	985804	1.10482	5.26589	0.71779	13.4022	1.48579	0.50952	1.3009	0.87556	2654.56	28.3064	2708.41	14.0398	2748.82	11.7998	2748.82	11.7998	96.5708
20-CGARB-1	109234	3.54569	5.49651	0.97047	12.378	1.57208	0.4929	1.23671	0.78667	2583.21	26.3218	2633.51	14.7705	2672.38	16.0657	2672.38	16.0657	96.6634
20-CGARB-1	59146.6	1.3826	9.84164	1.12401	3.96515	1.55992	0.28232	1.0803	0.69253	1603.04	15.3324	1627.09	12.6498	1658.32	20.8408	1658.32	20.8408	96.6668
20-CGARB-1	218023	2.95243	13.6132	0.77779	1.69612	1.42132	0.16715	1.18958	0.83695	996.407	10.9824	1007.07	9.07923	1030.32	15.7437	1030.32	15.7437	96.708
20-CGARB-1	72616.8	3.98557	13.1337	0.96383	1.86668	1.49464	0.17829	1.13948	0.76237	1057.6	11.1145	1069.36	9.88262	1093.43	19.3506	1093.43	19.3506	96.723
20-CGARB-1	10871.9	4.58175	9.8962	1.46369	3.81867	1.96611	0.27653	1.31127	0.66694	1573.85	18.3113	1596.69	15.8219	1626.94	27.2421	1626.94	27.2421	96.7366
20-CGARB-1	16176.8	0.42742	16.7077	1.56887	0.71904	1.983	0.08848	1.19097	0.60059	546.53	6.24072	550.103	8.42231	564.903	34.5118	546.53	6.24072	96.7477
20-CGARB-1	61890.1	2.70185	12.2505	0.77299	2.31205	1.1688	0.20488	0.87234	0.74635	1201.49	9.56229	1215.99	8.28477	1241.79	15.2529	1241.79	15.2529	96.7546
20-CGARB-1	47952.3	1.60769	13.7956	1.55764	1.60221	1.98033	0.16081	1.21316	0.61261	961.301	10.8343	971.073	12.3813	993.259	31.8032	993.259	31.8032	96.7825
20-CGARB-1	422176	7.51041	13.7132	1.07088	1.67614	1.73075	0.16588	1.35967	0.7856	989.366	12.4707	999.518	11.0074	1021.83	21.6962	1021.83	21.6962	96.8225
20-CGARB-1	116992	2.00751	8.74096	0.67403	5.12782	1.02198	0.3248	0.76778	0.75127	1813.14	12.1346	1840.73	8.68378	1872.04	12.1657	1872.04	12.1657	96.8537
20-CGARB-1	53036.2	3.35065	13.5368	0.87557	1.73108	1.53314	0.16958	1.25794	0.8205	1009.8	11.7578	1020.15	9.86752	1042.41	17.7043	1042.41	17.7043	96.8721
20-CGARB-1	54268.3	2.32396	13.4014	0.88799	1.74891	1.46702	0.17077	1.16152	0.79175	1016.33	10.9213	1026.76	9.4773	1049.08	18.0825	1049.08	18.0825	96.8783
20-CGARB-1	507703	2.5971	9.09533	0.84145	4.74906	1.4039	0.31191	1.12379	0.80048	1750.12	17.224	1775.94	11.776	1806.42	15.2966	1806.42	15.2966	96.8834
20-CGARB-1	1058968	5.60628	12.8491	0.94869	2.02797	1.65529	0.18841	1.35645	0.81947	1112.76	13.8632	1124.93	11.2572	1148.54	18.8255	1148.54	18.8255	96.8842
20-CGARB-1	151242	1.82326	9.77517	0.86461	4.04848	1.31821	0.28596	0.99504	0.75484	1621.31	14.2638	1643.99	10.7341	1673.11	15.9823	1673.11	15.9823	96.904
20-CGARB-1	105800	0.93966	13.2692	1.06185	1.82535	1.50268	0.17583	1.06323	0.70755	1044.16	10.2493	1054.61	9.85792	1076.33	21.3163	1076.33	21.3163	97.0107
20-CGARB-1	161279	1.72707	12.7478	1.13624	2.0552	1.63746	0.19017	1.17907	0.72006	1122.27	12.1446	1134.03	11.1849	1156.58	22.5422	1156.58	22.5422	97.0339
20-CGARB-1	50821	1.64357	13.2835	1.04791	1.81963	1.47091	0.17549	1.03068	0.70071	1042.31	9.91942	1052.55	9.63876	1073.87	21.0674	1073.87	21.0674	97.0611
20-CGARB-1	261876	4.15435	9.12378	0.72431	4.73971	1.3525	0.31195	1.14219	0.8445	1750.28	17.5075	1774.29	11.3409	1802.64	13.1751	1802.64	13.1751	97.0957
20-CGARB-1	49447.8	2.86581	11.9157	0.99265	2.47798	1.81445	0.21434	1.5163	0.83568	1251.88	17.2529	1265.63	13.1271	1289.05	19.3964	1289.05	19.3964	97.1162
20-CGARB-1	61428.1	4.41275	13.4415	1.15055	1.7634	1.72334	0.17189	1.28277	0.74435	1022.53	12.1293	1032.1	11.1667	1052.44	23.191	1052.44	23.191	97.158
20-CGARB-1	87502.3	1.77281	13.5537	1.04259	1.72145	1.65475	0.16912	1.28489	0.77649	1007.24	11.9816	1016.57	10.6285	1036.69	21.0778	1036.69	21.0778	97.1598
20-CGARB-1	106000	1.37768	12.9941	1.15861	1.95989	1.85392	0.18447	1.44719	0.78061	1091.35	14.5294	1101.84	12.4652	1122.61	23.0911	1122.61	23.0911	97.2151
20-CGARB-1	2927809	1.26617	13.6669	0.71286	1.68843	1.49721	0.16698	1.31661	0.87938	995.457	12.1445	1004.17	9.54791	1023.21	14.4263	1023.21	14.4263	97.2875
20-CGARB-1	168295	2.19806	13.3121	0.78027	1.84013	1.41407	0.17697	1.17916	0.83387	1050.42	11.4297	1059.91	9.30302	1079.5	15.6503	1079.5	15.6503	97.3064

20-CGARB-1	1191569	2.10415	9.7456	0.9591	4.05843	1.67035	0.28699	1.36755	0.81872	1626.45	19.6585	1645.99	13.6084	1671.02	17.7333	1671.02	17.7333	97.3328
20-CGARB-1	198444	1.77012	9.59178	0.88364	4.20376	1.49053	0.29264	1.20031	0.80529	1654.72	17.5175	1674.75	12.2268	1699.93	16.2794	1699.93	16.2794	97.3401
20-CGARB-1	165796	2.77467	10.9537	0.83357	3.12185	1.3679	0.24698	1.08449	0.79282	1422.88	13.8467	1438.09	10.5201	1460.64	15.8466	1460.64	15.8466	97.4148
20-CGARB-1	404967	1.45158	10.3717	0.84737	3.57023	1.46792	0.26709	1.19865	0.81656	1526.03	16.2879	1542.94	11.6442	1566.16	15.881	1566.16	15.881	97.4375
20-CGARB-1	341032	3.91718	13.415	0.87934	1.80216	1.27144	0.17464	0.91833	0.72227	1037.6	8.80124	1046.24	8.30301	1064.35	17.6849	1064.35	17.6849	97.4866
20-CGARB-1	165495	2.19526	5.5023	0.67779	12.472	1.09395	0.49778	0.85868	0.78493	2604.27	18.3967	2640.62	10.2836	2668.58	11.2258	2668.58	11.2258	97.5898
20-CGARB-1	2.7E+07	2.02602	12.2372	0.77572	2.32477	1.18817	0.20634	0.90001	0.75747	1209.28	9.92377	1219.88	8.43604	1238.67	15.2253	1238.67	15.2253	97.6269
20-CGARB-1	195055	2.44811	12.8706	0.75821	2.03562	1.36137	0.18942	1.13066	0.83053	1118.25	11.6077	1127.5	9.26971	1145.35	15.0603	1145.35	15.0603	97.6334
20-CGARB-1	408589	2.90155	13.0798	0.8613	1.91335	1.32021	0.18187	1.00057	0.75788	1077.19	9.92561	1085.75	8.80414	1103	17.2132	1103	17.2132	97.6598
20-CGARB-1	214039	3.87694	12.8806	1.65887	2.04124	1.99737	0.18978	1.1125	0.55698	1120.21	11.4397	1129.38	13.6132	1147.04	32.9574	1147.04	32.9574	97.6611
20-CGARB-1	353900	0.98895	12.9572	1.11816	1.99646	1.51351	0.18705	1.02002	0.67394	1105.36	10.3612	1114.31	10.2396	1131.81	22.2632	1131.81	22.2632	97.6634
20-CGARB-1	1348813	1.97785	9.72484	0.7207	4.13082	1.34392	0.29032	1.13434	0.84405	1643.12	16.4528	1660.42	10.9868	1682.35	13.3075	1682.35	13.3075	97.6681
20-CGARB-1	159582	0.82687	5.33118	0.76297	13.2967	1.37978	0.51188	1.14963	0.8332	2664.63	25.0915	2700.94	13.0309	2728.22	12.5631	2728.22	12.5631	97.6694
20-CGARB-1	2304376	1.97565	12.3818	0.89086	2.25971	1.43319	0.2027	1.12267	0.78334	1189.82	12.1974	1199.82	10.0884	1217.89	17.536	1217.89	17.536	97.6949
20-CGARB-1	205196	3.8085	10.8801	0.82502	3.17113	1.29408	0.24961	0.99695	0.77039	1436.47	12.8376	1450.16	9.99003	1470.25	15.6627	1470.25	15.6627	97.7025
20-CGARB-1	2403272	1.66052	11.2814	0.72807	2.88888	1.12946	0.23611	0.86347	0.7645	1366.44	10.6322	1379.01	8.51954	1398.52	13.9561	1398.52	13.9561	97.7062
20-CGARB-1	572009	2.69045	11.3352	0.86347	2.87792	1.45231	0.23567	1.16774	0.80406	1364.16	14.3572	1376.15	10.9442	1394.78	16.5601	1394.78	16.5601	97.805
20-CGARB-1	888696	1.66982	13.2489	0.97266	1.86854	1.54952	0.17915	1.20622	0.77844	1062.32	11.8138	1070.02	10.2491	1085.74	19.4873	1085.74	19.4873	97.8432
20-CGARB-1	86012.7	4.3067	16.4987	0.95415	0.82066	1.42734	0.0985	1.0603	0.74285	605.601	6.12878	608.414	6.53274	618.883	20.6351	605.601	6.12878	97.8539
20-CGARB-1	337400	4.09801	13.5551	0.99735	1.75525	1.75423	0.17179	1.44312	0.82265	1021.96	13.6384	1029.1	11.3478	1044.34	20.139	1044.34	20.139	97.8567
20-CGARB-1	518598	4.54099	12.9953	1.26339	1.95726	1.80975	0.18477	1.29578	0.716	1092.96	13.0268	1100.94	12.1626	1116.78	25.1936	1116.78	25.1936	97.8669
20-CGARB-1	123228	1.99966	17.5517	1.24037	0.59965	1.57787	0.07651	0.97527	0.61809	475.239	4.46812	477.014	6.00595	485.553	27.4014	475.239	4.46812	97.8757
20-CGARB-1	508620	3.35895	9.02532	0.69165	4.87104	1.30772	0.31792	1.10984	0.84868	1779.55	17.2586	1797.26	11.0171	1817.85	12.5554	1817.85	12.5554	97.8932
20-CGARB-1	197063	2.23486	12.6023	0.99234	2.17974	1.67122	0.19823	1.34469	0.80462	1165.78	14.3405	1174.59	11.6331	1190.85	19.5815	1190.85	19.5815	97.8954
20-CGARB-1	153226	2.39062	13.1552	0.83256	1.88793	1.36165	0.18044	1.07732	0.79119	1069.36	10.6157	1076.86	9.03871	1092.08	16.6644	1092.08	16.6644	97.92
20-CGARB-1	258190	1.12827	5.50257	0.79207	12.5972	1.42955	0.50133	1.19005	0.83247	2619.52	25.6174	2650.01	13.4487	2673.36	13.1126	2673.36	13.1126	97.9859
20-CGARB-1	440680	5.60642	12.4264	1.12568	2.26543	1.79605	0.2033	1.39951	0.77922	1193.01	15.2424	1201.59	12.6526	1217.07	22.1377	1217.07	22.1377	98.0235
20-CGARB-1	30991.2	2.53702	12.7506	1.36906	2.04308	1.91462	0.19019	1.33785	0.69876	1122.42	13.7818	1129.99	13.053	1144.57	27.2211	1144.57	27.2211	98.0654
20-CGARB-1	289805	4.63115	13.5403	0.99875	1.76275	1.5011	0.17241	1.12062	0.74653	1025.39	10.6235	1031.86	9.72526	1045.61	20.1624	1045.61	20.1624	98.0667
20-CGARB-1	70806.8	0.32785	5.31178	0.86312	13.3337	1.34243	0.51401	1.02784	0.76566	2673.71	22.4951	2703.58	12.6805	2725.96	14.2217	2725.96	14.2217	98.0831
20-CGARB-1	104329	1.36156	13.1518	1.05969	1.90625	1.63124	0.18171	1.23946	0.75983	1076.32	12.2863	1083.27	10.8645	1097.31	21.2434	1097.31	21.2434	98.0867
20-CGARB-1	81505.4	2.45477	12.8061	0.99899	2.03529	1.48259	0.18975	1.0938	0.73776	1120.01	11.2455	1127.39	10.0947	1141.6	19.8994	1141.6	19.8994	98.1093
20-CGARB-1	196182	1.52439	9.91162	0.79841	3.9483	1.2944	0.28378	1.01882	0.7871	1610.38	14.5181	1623.64	10.4874	1640.85	14.8208	1640.85	14.8208	98.1431
20-CGARB-1	136295	2.74025	12.3473	0.8344	2.30583	1.37274	0.2057	1.09001	0.79404	1205.89	11.9882	1214.08	9.7225	1228.69	16.3823	1228.69	16.3823	98.1448
20-CGARB-1	1696528	3.58279	16.5475	0.73446	0.84567	1.31051	0.10091	1.08536	0.8282	619.768	6.41347	622.267	6.09706	631.389	15.8395	619.768	6.41347	98.1594
20-CGARB-1	100990	2.93365	13.6909	1.01429	1.6947	1.67812	0.16795	1.33689	0.79666	1000.82	12.393	1006.54	10.7164	1018.97	20.5398	1018.97	20.5398	98.219
20-CGARB-1	166079	2.22319	13.5322	0.78864	1.7704	1.17605	0.17303	0.87215	0.74159	1028.78	8.29316	1034.67	7.63122	1047.15	15.9275	1047.15	15.9275	98.2452
20-CGARB-1	143422	2.13321	12.3488	0.93099	2.29456	1.43871	0.20517	1.09657	0.76219	1203.03	12.0343	1210.61	10.1747	1224.14	18.2782	1224.14	18.2782	98.2757
20-CGARB-1	704261	1.94023	13.3741	1.12537	1.80858	1.5278	0.17559	1.0333	0.67633	1042.86	9.94945	1048.56	9.98989	1060.48	22.6619	1060.48	22.6619	98.3391
20-CGARB-1	17055.1	2.18886	17.9161	1.96186	0.50826	2.42014	0.06669	1.41408	0.5843	416.21	5.69958	417.276	8.28111	423.151	43.8324	416.21	5.69958	98.3599
20-CGARB-1	164609	2.1289	13.5712	0.87653	1.72137	1.38763	0.16984	1.0755	0.77506	1011.22	10.0656	1016.54	8.91252	1027.99	17.7498	1027.99	17.7498	98.3687
20-CGARB-1	2015570	7.95936	13.8184	0.78364	1.66252	1.73709	0.16586	1.55029	0.89246	989.276	14.2178	994.339	11.014	1005.51	15.884	1005.51	15.884	98.3859
20-CGARB-1	1271448	2.80604	9.92277	0.96439	3.99349	1.305	0.28597	0.87919	0.67371	1621.36	12.6035	1632.87	10.5976	1647.72	17.8844	1647.72	17.8844	98.4002
20-CGARB-1	3048.95	49.5726	16.4078	2.89245	0.56237	4.80995	0.07261	1.42141	0.29551	451.875	6.20305	453.068	17.5814	459.148	101.952	451.875	6.20305	98.4161
20-CGARB-1	273660	3.00178	13.0948	0.83057	1.94615	1.29517	0.18449	0.99376	0.76728	1091.46	9.978	1097.12	8.68737	1108.35	16.5759	1108.35	16.5759	98.476
20-CGARB-1	143983	1.27697	4.48689	0.93442	18.0217	1.36398	0.58368	0.99363	0.72848	2963.73	23.6076	2990.89	13.1223	3009.19	15.0118	3009.19	15.0118	98.4893
20-CGARB-1	157860	1.55108	12.5317	0.97068	2.21789	1.38679	0.20093	0.99029	0.71409	1180.3	10.6808	1186.7	9.70561	1198.39	19.1305	1198.39	19.1305	98.4909
20-CGARB-1	493322	2.50266	13.6162	0.75216	1.71491	1.2956	0.16948	1.0549	0.81422	1009.24	9.85494	1014.12	8.3099	1024.67	15.2183	1024.67	15.2183	98.4941
20-CGARB-1	159691	2.41055	13.4556	0.88791	1.78682	1.45426	0.17427	1.1517	0.79195	1035.62	11.0185	1040.67	9.46795	1051.3	17.9131	1051.3	17.9131	98.5084
20-CGARB-1	1133867	1.2808	12.0678	0.75982	2.44239	1.45778	0.21365	1.24411	0.85342	1248.25	14.1186	1255.18	10.5025	1267.1	14.8354	1267.1	14.8354	98.5127
20-CGARB-1	493212	2.24179	13.6114	1.51713	1.73845	1.99909	0.1711	1.30179	0.65119	1018.17	12.2607	1022.89	12.8867	1032.98	30.6768	1032.98	30.6768	98.5662
20-CGARB-1	1823504	1.20619	5.04566	0.87474	14.7958	1.41364	0.53889	1.1105	0.78556	2778.78	25.0685	2802.2	13.4459	2819.09	14.2843	2819.09	14.2843	98.5702
20-CGARB-1	46006.9	0.75814	13.3974	1.23385	1.80174	1.65016	0.1753	1.09256	0.66209	1041.24	10.5049	1046.09	10.7755	1056.26	24.9027	1056.26	24.9027	98.578
20-CGARB-1	147270	2.3613	18.2432	1.60059	0.48356	1.85474	0.06396	0.93706	0.50523	399.669	3.63142	400.515	6.13855	405.377	35.8312	399.669	3.63142	98.5918
20-CGARB-1	38372.8	4.21477	13.3251	0.76834	1.84182	1.38155	0.17792	1.13514	0.82164	1055.61	11.053	1060.51	9.09199	1070.64	15.8149	1070.64	15.8149	98.5962
20-CGARB-1	139995	2.28212	11.6241	0.81097	2.72552	1.30943	0.22882	1.02791	0.78501	1328.29	12.3389	1335.44	9.72718	1346.89	15.6616	1346.89	15.6616	98.6192
20-CGARB-1	264538	5.68769	14.0909	0.72498	1.5509	1.5187	0.15822	1.33443	0.87867	946.869	11.7512	950.851	9.3757	960.098	14.8038	960.098	14.8038	98.6221
20-CGARB-1	215047	4.0369	12.737	0.78254	2.12583	1.64792	0.1956	1.45026	0.88006	1151.63	15.2949	1157.23	11.3801	1167.71	15.518	1167.71	15.518	98.623
20-CGARB-1	157361	3.03039	12.7684	0.94238	2.09445	1.46014	0.19372	1.11531	0.76383	1141.48	11.6675	1146.99	10.0352	1157.4	18.7124	1157.4	18.7124	98.6248
20-CGARB-1	59988.9	6.55895	16.502	1.21611	0.82955	1.64339	0.09951	1.10503	0.67241	611.551	6.44718	613.361	7.56618	620.027	26.2691	611.551	6.44718	98.6329
20-CGARB-1	590807	2.76485	10.3652	0.81751	3.60089	1.36844	0.27	1.09741	0.80194	1540.78	15.0398	1549.73	10.8753	1561.93	15.3299	1561.93	15.3299	98.646
20-CGARB-1	148898	1.94187	10.6849	0.70756	3.36231	1.44104	0.25953	1.25535	0.87114	1487.44	16.6749	1495.66	11.2783	1507.31	13.3661	1507.31	13.3661	98.6815
20-CGARB-1	244435	1.16027	9.58021	0.86975	4.31951	1.63141	0.29922	1.38021	0.84602	1687.43	20.4914	1697.09	13.4519	1709.02	16.0046	1709.02	16.0046	98.7368
20-CGARB-1	446286	1.58198	12.312	0.92741	2.34522	1.63144	0.20843	1.3422	0.82271	1220.47	14.9239	1226.11	11.6139	1236.05	18.1886	1236.05	18.1886	98.7394
20-CGARB-1	1569746	0.98899	8.89424	1.05377	5.07807	1.66803	0.32654	1.29301	0.77517	1821.59	20.5182	1832.45	14.1512	1844.79	19.0676	1844.79	19.0676	98.7428
20-CGARB-1	120325	3.85229	13.7133	0.748	1.70411	1.54576	0.1689	1.35242	0.87492	1006.06	12.5975	1010.08	9.89141	1018.78	15.1588	1018.78	15.1588	98.7511
20-CGARB-1	220436	5.16084	12.779	0.82528	2.08771	1.46666	0.19344	1.21235	0.8266	1139.99	12.6676	1144.77	10.0695	1153.83	16.3958	1153.83	16.3958	98.7999
20-CGARB-1	83851.5	1.09293	13.1961	0.89307	1.91307	1.42633	0.18263	1.10985	0.77812	1081.32	11.0486	1085.65	9.51134	1094.35	17.9275	1094.35	17.9275	98.8099
20-CGARB-1	168680	3.31801	9.99523	1.15217	3.93838	1.54154	0.28436	1.02411	0.66434	1613.29	14.6167	1621.6	12.4836	1632.39	21.4097	1632.39	21.4097	98.8298
20-CGARB-1	259594	3.07837	10.6092	0.87334	3.43333	1.40987	0.2629	1.10677	0.78501	1504.65	14.8523	1512.06	11.087	1522.44	16.4634	1522.44	16.4634	98.8315
20-CGARB-1	110275	4.15558	14.0385	0.71798	1.57394	1.29234	0.15997	1.07388	0.83096	956.583	9.54677	959.981	8.02429	967.792	14.6747	967.792	14.6747	98.8418
20-CGARB-1	172594	3.13773	10.705	0.80295	3.34073	1.57107	0.2588	1.35029	0.85947	1483.71	17.8961	1490.63	12.278	1500.46	15.1843	1500.46	15.1843	98.8835
20-CGARB-1	150659	2.13778	10.717	0.924	3.32456	1.65439	0.25808	1.37228	0.82948	1480	18.147	1486.83	12.9146	1496.59	17.4797	1496.59	17.4797	98.8915
20-CGARB-1	19167.9	1.92465	13.3005	1.14138	1.82326	1.66768	0.17693	1.21584	0.72906	1050.2	11.7829	1053.86	10.936	1061.47	22.9829	1061.47	22.9829	98.9382
20-CGARB-1	179976	3.04531	11.3308	0.69317	2.87162	1.4807	0.23656	1.30832	0.88359	1368.78	16.1346	1374.5	11.1519	1383.37	13.3183	1383.37	13.3183	98.9459
20-CGARB-1	44840.1	2.65262	13.6596	1.37914	1.69319	1.98046	0.16828	1.41136	0.71264	1002.63	13.1052	1005.97	12.6432	1013.23	28.1418	1013.23	28.1418	98.9538
20-CGARB-1	101179	0.89881	11.5025	0.90729	2.77427	1.74564	0.23166	1.4913	0.8543	1343.18	18.0818	1348.64	13.0294	1357.29	17.4923	1357.29	17.4923	98.9606
20-CGARB-1	86355.3	3.13	12.9958	0.86207	2.00585	1.46876	0.18855	1.18907	0.80958	1113.53	12.1603	1117.49	9.95238	1125.18	17.1841	1125.18	17.1841	98.965
20-CGARB-1	181070	4.06974	13.1767	1.06442	1.91041	1.61964	0.18259	1.22068	0.75367	1081.08	12.1494	1084.73	10.7954	1092.07	21.3216	1092.07	21.3216	98.9937
20-CGARB-1	198038	2.58707	11.7016	0.78104	2.67176	1.27897	0.2264	1.01278	0.79187	1315.58	12.0523	1320.68	9.44986	1328.94	15.1182	1328.94	15.1182	98.9947
20-CGARB-1	106997	1.79207	3.88549	0.92561	22.9964	1.40676	0.64466	1.05935	0.75304	3207.32	26.768	3226.79	13.6896	3238.9	14.5941	3238.9	14.5941	99.025
20-CGARB-1	802613	2.22964	12.7734	0.78263	2.11792	1.53798	0.19543	1.32396	0.86084	1150.73	13.9529	1154.66	10.6082	1162.02	15.514	1162.02	15.514	99.029
20-CGARB-1	125353	1.59738	9.05809	0.85336	4.91399	1.38739	0.32139	1.09386	0.78843	1796.53	17.1508	1804.66	11.7058	1814.05	15.4998	1814.05	15.4998	99.0339
20-CGARB-1	32204.9	2.79517	11.0852	1.01163	3.01271	1.6426	0.24364	1.29371	0.7876	1405.59	16.3383	1410.84	12.5229	1418.77	19.3484	1418.77	19.3484	99.0711
20-CGARB-1	227382	3.17521	11.3181	1.04391	2.92566	1.50721	0.23938	1.08715	0.7213	1383.47	13.5361	1388.57	11.406	1396.4	20.0166	1396.4	20.0166	99.0741
20-CGARB-1	470019	2.55806	13.6671	0.87008	1.70219	1.44715	0.16897	1.15637	0.79907	1006.46	10.7754	1009.35	9.25654	1015.63	17.628	1015.63	17.628	99.097
20-CGARB-1	98246.8	2.12859	10.7205	0.91457	3.29947	1.55306	0.25719	1.25471	0.80789	1475.44	16.5468	1480.93	12.1023	1488.78	17.3319	1488.78	17.3319	99.1042
20-CGARB-1	186050	1.83687	9.94288	0.68094	3.98873	1.23042	0.28686	1.02478	0.83287	1625.83	14.7262	1631.91	9.98942	1639.72	12.6429	1639.72	12.6429	99.1529
20-CGARB-1	171936	3.64527	12.811	0.94905	2.0619	1.58336	0.19214	1.26734	0.80041	1132.97	13.1675	1136.25	10.8268	1142.54	18.8651	1142.54	18.8651	99.1618
20-CGARB-1	554602	2.26805	13.0381	0.96672	2.00028	1.61386	0.18837	1.29228	0.80074	1112.53	13.2048	1115.61	10.9255	1121.59	19.2747	1121.59	19.2747	99.1919
20-CGARB-1	143127	5.90942	13.3688	0.75332	1.81955	1.321	0.17686	1.08514	0.82145	1049.79	10.5125	1052.52	8.65618	1058.22	15.1658	1058.22	15.1658	99.2036
20-CGARB-1	170116	2.01722	11.7175	0.67634	2.67322	1.22372	0.2267	1.01976	0.83332	1317.18	12.1487	1321.08	9.04298	1327.39	13.0969	1327.39	13.0969	99.2308

20-CGARB-1	922207	4.59524	12.6051	0.70995	2.19262	1.33205	0.20003	1.12709	0.84613	1175.51	12.1112	1178.7	9.28919	1184.58	14.0221	1184.58	14.0221	99.2336
20-CGARB-1	150403	1.43977	10.1238	0.96961	3.79647	1.54964	0.2791	1.20873	0.78	1586.84	17.0022	1592	12.4549	1598.82	18.0989	1598.82	18.0989	99.2508
20-CGARB-1	149740	2.31602	17.5164	1.0982	0.62857	1.80756	0.07974	1.43555	0.79419	494.556	6.83409	495.203	7.08394	498.177	24.1859	494.556	6.83409	99.2732
20-CGARB-1	196773	3.82221	12.9169	0.91703	2.05764	1.44879	0.19196	1.12157	0.77414	1132.01	11.644	1134.84	9.89994	1140.26	18.2201	1140.26	18.2201	99.2769
20-CGARB-1	152176	3.46041	12.7226	0.66243	2.14259	1.26558	0.19711	1.07836	0.85207	1159.78	11.4461	1162.66	8.76155	1168.05	13.1386	1168.05	13.1386	99.2915
20-CGARB-1	26802.3	1.76672	13.3008	1.17134	1.83674	1.49889	0.17807	0.90346	0.60275	1056.41	8.80317	1058.69	9.85467	1063.43	24.0591	1063.43	24.0591	99.3392
20-CGARB-1	172075	2.15877	11.5868	0.94621	2.74234	1.56451	0.23044	1.24586	0.79632	1336.8	15.0413	1340.01	11.6414	1345.13	18.2752	1345.13	18.2752	99.3809
20-CGARB-1	142743	1.29837	9.91874	0.78765	4.03515	1.38474	0.28907	1.13888	0.82245	1636.9	16.4637	1641.31	11.2684	1646.95	14.6102	1646.95	14.6102	99.3895
20-CGARB-1	1816939	2.24049	13.2156	0.57521	1.9177	1.33849	0.18333	1.20859	0.90295	1085.12	12.0703	1087.27	8.93301	1091.6	11.5214	1091.6	11.5214	99.4062
20-CGARB-1	350705	1.62118	11.6194	0.88997	2.74059	1.52086	0.23038	1.23326	0.8109	1336.51	14.8863	1339.54	11.3146	1344.36	17.189	1344.36	17.189	99.4159
20-CGARB-1	103904	3.03698	10.9277	0.98535	3.1968	1.87649	0.25281	1.59644	0.85076	1452.94	20.7672	1456.39	14.5145	1461.39	18.744	1461.39	18.744	99.4218
20-CGARB-1	434574	0.63689	8.91265	0.88244	5.08151	1.3809	0.32787	1.06216	0.76918	1828.07	16.9067	1833.02	11.7164	1838.64	15.9789	1838.64	15.9789	99.4248
20-CGARB-1	107846	1.79663	13.2459	1.01059	1.89474	1.58763	0.18188	1.22388	0.77088	1077.26	12.1416	1079.25	10.552	1083.26	20.2774	1083.26	20.2774	99.4456
20-CGARB-1	121733	2.29848	9.96607	0.75088	3.96553	1.47796	0.28634	1.27291	0.86126	1623.24	18.2662	1627.17	11.9853	1632.24	13.9551	1632.24	13.9551	99.4482
20-CGARB-1	222868	2.84099	13.4822	0.95597	1.78055	1.48024	0.17444	1.1301	0.76345	1036.53	10.8205	1038.38	9.62499	1042.27	19.311	1042.27	19.311	99.4491
20-CGARB-1	40338.5	4.07014	13.1574	0.88434	1.90793	1.42604	0.18274	1.11866	0.78445	1081.91	11.1419	1083.86	9.50064	1087.77	17.7064	1087.77	17.7064	99.4616
20-CGARB-1	129214	2.20423	10.9275	1.01761	3.20397	1.45564	0.25319	1.0408	0.71501	1454.91	13.5555	1458.12	11.265	1462.78	19.3382	1462.78	19.3382	99.4623
20-CGARB-1	129943	4.03606	12.7777	0.87967	2.12028	1.38333	0.19591	1.06756	0.77173	1153.31	11.2737	1155.43	9.54485	1159.39	17.4651	1159.39	17.4651	99.4754
20-CGARB-1	195242	3.30636	11.5211	0.90193	2.8168	1.34913	0.23437	1.0033	0.74366	1357.34	12.2801	1360.02	10.1101	1364.2	17.3721	1364.2	17.3721	99.4973
20-CGARB-1	331374	4.11734	13.5991	0.87905	1.73974	1.62661	0.17175	1.36861	0.84139	1021.73	12.9316	1023.37	10.4883	1026.86	17.7994	1026.86	17.7994	99.5001
20-CGARB-1	89433.7	2.29358	8.72242	0.88451	5.34204	1.37379	0.3368	1.05068	0.76481	1871.28	17.0648	1875.62	11.7502	1880.41	15.9459	1880.41	15.9459	99.5141
20-CGARB-1	554105	3.28286	9.06764	0.66506	4.91251	1.18247	0.32226	0.97772	0.82684	1800.75	15.361	1804.41	9.97619	1808.61	12.0862	1808.61	12.0862	99.5653
20-CGARB-1	196195	3.52184	5.28954	0.90099	13.7387	1.64303	0.52613	1.37395	0.83623	2725.11	30.5347	2731.87	15.5524	2736.85	14.8246	2736.85	14.8246	99.5712
20-CGARB-1	237227	1.19602	13.3349	0.8425	1.88221	1.34547	0.18116	1.04897	0.77963	1073.32	10.3715	1074.84	8.92192	1077.91	16.9024	1077.91	16.9024	99.5745
20-CGARB-1	109144	1.84449	13.1313	1.05927	1.95465	1.39707	0.18578	0.91021	0.65151	1098.49	9.19312	1100.05	9.3848	1103.14	21.1749	1103.14	21.1749	99.5791
20-CGARB-1	181488	1.03955	18.19	0.93838	0.49444	1.54372	0.06528	1.22555	0.7939	407.673	4.84154	407.934	5.18607	409.391	20.9968	407.673	4.84154	99.5802
20-CGARB-1	128418	2.19922	9.06447	0.85103	4.9135	1.40883	0.32234	1.12261	0.79683	1801.14	17.6407	1804.58	11.8865	1808.53	15.4701	1808.53	15.4701	99.5915
20-CGARB-1	207960	2.35545	12.2229	0.92022	2.41004	1.37229	0.21282	1.01797	0.7418	1243.83	11.5152	1245.6	9.84815	1248.66	18.0151	1248.66	18.0151	99.6133
20-CGARB-1	551653	2.54673	11.7914	0.7467	2.65476	1.49198	0.2261	1.29168	0.86575	1314.04	15.3552	1315.97	11.0047	1319.09	14.4724	1319.09	14.4724	99.6178
20-CGARB-1	5467166	2.6716	12.8753	0.9167	2.0748	1.58397	0.19329	1.29175	0.81552	1139.18	13.4885	1140.52	10.8531	1143.08	18.2235	1143.08	18.2235	99.6591
20-CGARB-1	170523	2.60573	11.6447	0.854	2.72116	1.53602	0.22964	1.27673	0.83119	1332.62	15.3706	1334.25	11.4057	1336.84	16.5111	1336.84	16.5111	99.6847
20-CGARB-1	177032	2.14223	9.93355	0.70822	4.04214	1.3003	0.28981	1.09046	0.83863	1640.57	15.7949	1642.72	10.5849	1645.45	13.1399	1645.45	13.1399	99.7039
20-CGARB-1	1E+07	5.36183	13.6784	0.83818	1.72531	1.70092	0.17092	1.48006	0.87015	1017.17	13.9271	1018.01	10.9341	1019.79	16.9721	1019.79	16.9721	99.7428
20-CGARB-1	409442	2.87986	11.0501	0.93887	3.1272	1.5261	0.24995	1.20312	0.78836	1438.21	15.5091	1439.41	11.7417	1441.15	17.8932	1441.15	17.8932	99.7962
20-CGARB-1	37081.2	1.81725	12.8515	1.08783	2.0637	1.63827	0.19272	1.22161	0.74567	1136.1	12.7245	1136.85	11.2055	1138.28	21.6963	1138.28	21.6963	99.808
20-CGARB-1	67923.8	2.11821	13.3222	1.17909	1.87194	1.81713	0.18066	1.38096	0.75997	1070.59	13.622	1071.22	12.0269	1072.51	23.7235	1072.51	23.7235	99.8208
20-CGARB-1	505101	1.81974	5.84625	0.79965	11.5934	1.53298	0.49015	1.30789	0.85317	2571.31	27.7326	2572.14	14.3306	2572.79	13.3665	2572.79	13.3665	99.9424
20-CGARB-1	177790	2.64291	11.5543	0.92165	2.79815	1.5377	0.23387	1.23076	0.80039	1354.75	15.0383	1355.04	11.5032	1355.49	17.7768	1355.49	17.7768	99.9456
20-CGARB-1	194499	4.45765	13.2416	0.79675	1.91434	1.63424	0.18347	1.42681	0.87307	1085.92	14.2593	1086.1	10.9004	1086.45	15.9552	1086.45	15.9552	99.9514
20-CGARB-1	80774.9	4.24844	9.41132	0.87826	4.53627	1.6088	0.30942	1.34792	0.83784	1737.87	20.5331	1737.65	13.3856	1737.37	16.1031	1737.37	16.1031	100.029
20-CGARB-1	147267	2.89086	4.81977	0.90805	16.1827	1.65807	0.56525	1.3873	0.8367	2888.3	32.2963	2887.65	15.8572	2887.18	14.739	2887.18	14.739	100.039
20-CGARB-1	169124	3.87059	13.1222	0.8423	1.98177	1.63449	0.18781	1.40074	0.85699	1109.49	14.2772	1109.32	11.0309	1108.99	16.8281	1108.99	16.8281	100.045
20-CGARB-1	234141	4.71209	9.90501	0.83691	4.07132	1.47574	0.29152	1.21545	0.82362	1649.12	17.6857	1648.58	12.0302	1647.88	15.5219	1647.88	15.5219	100.075
20-CGARB-1	5.1E+07	3.14677	12.6814	0.90066	2.19261	1.49933	0.2007	1.19867	0.79947	1179.05	12.9158	1178.7	10.4559	1178.06	17.812	1178.06	17.812	100.084
20-CGARB-1	194601	14.4358	13.593	0.62266	1.76841	1.56088	0.17409	1.43131	0.91699	1034.6	13.6811	1033.94	10.1244	1032.52	12.6024	1032.52	12.6024	100.202
20-CGARB-1	45395.1	4.94803	13.7032	0.89984	1.71555	1.64126	0.17053	1.37257	0.83629	1015.01	12.8903	1014.36	10.5285	1012.95	18.2248	1012.95	18.2248	100.203
20-CGARB-1	457299	1.69227	9.45026	0.86838	4.50195	1.47647	0.30844	1.1941	0.80875	1733.02	18.1458	1731.33	12.2676	1729.28	15.938	1729.28	15.938	100.216
20-CGARB-1	82705.5	2.84404	12.1025	0.67734	2.49015	1.16641	0.2178	0.9482	0.81293	1270.23	10.932	1269.17	8.45028	1267.37	13.2442	1267.37	13.2442	100.226
20-CGARB-1	803892	1.48076	5.50558	0.83929	12.9658	1.37015	0.51567	1.083	0.79043	2680.78	23.7528	2677.17	12.9168	2674.44	13.8896	2674.44	13.8896	100.237
20-CGARB-1	242999	1.63295	14.122	0.88503	1.54818	1.57632	0.15887	1.30437	0.82748	950.481	11.5271	949.769	9.72477	948.133	18.1058	948.133	18.1058	100.248
20-CGARB-1	603207	2.48596	12.8593	0.88711	2.1007	1.62107	0.19531	1.3568	0.83698	1150.07	14.2915	1149.04	11.152	1147.1	17.6142	1147.1	17.6142	100.259
20-CGARB-1	187124	3.50084	9.35686	0.85898	4.63143	1.39891	0.31335	1.10409	0.78925	1757.17	16.9814	1754.95	11.6824	1752.29	15.721	1752.29	15.721	100.279
20-CGARB-1	152334	3.1044	9.16575	0.66378	4.86227	1.18307	0.32176	0.97918	0.82766	1798.34	15.3661	1795.74	9.96382	1792.71	12.092	1792.71	12.092	100.314
20-CGARB-1	169560	0.85958	9.87078	1.03154	4.11755	1.40593	0.29375	0.95513	0.67936	1660.24	13.9801	1657.79	11.4866	1654.67	19.1154	1654.67	19.1154	100.337
20-CGARB-1	60356	1.32958	11.1167	0.87015	3.05951	1.26969	0.24736	0.92452	0.72815	1424.83	11.8187	1422.62	9.71673	1419.29	16.6349	1419.29	16.6349	100.39
20-CGARB-1	161031	2.95833	13.5103	0.59398	1.81644	1.30244	0.17741	1.15896	0.88984	1052.83	11.2576	1051.4	8.52938	1048.44	11.9987	1048.44	11.9987	100.419
20-CGARB-1	182526	2.65964	8.35897	0.77271	5.88315	1.45067	0.35594	1.22772	0.84631	1962.91	20.7758	1958.75	12.5905	1954.34	13.8001	1954.34	13.8001	100.438
20-CGARB-1	233907	1.43425	13.6213	0.86977	1.756	1.4983	0.17342	1.21996	0.81423	1030.94	11.6229	1029.37	9.69362	1026.03	17.6143	1026.03	17.6143	100.478
20-CGARB-1	115711	3.25796	13.488	0.91195	1.81549	1.5158	0.17739	1.21016	0.79836	1052.71	11.7537	1051.06	9.92486	1047.65	18.4232	1047.65	18.4232	100.483
20-CGARB-1	4971256	3.76998	9.11734	0.92127	4.88581	1.64678	0.32291	1.36497	0.82887	1803.9	21.4778	1799.81	13.881	1795.05	16.7712	1795.05	16.7712	100.493
20-CGARB-1	69513.2	1.18317	10.3424	0.83678	3.70433	1.59854	0.27688	1.3618	0.8519	1575.63	19.036	1572.3	12.7817	1567.83	15.6861	1567.83	15.6861	100.498
20-CGARB-1	99998	3.76711	13.6081	0.87789	1.7658	1.50763	0.17412	1.22461	0.81227	1034.76	11.7071	1032.98	9.77368	1029.19	17.7994	1029.19	17.7994	100.541
20-CGARB-1	29887.4	2.58638	13.5737	1.18179	1.74535	1.79022	0.17274	1.34331	0.75036	1027.2	12.7553	1025.44	11.5569	1021.67	23.9735	1021.67	23.9735	100.542
20-CGARB-1	29802.3	3.73889	13.9896	1.27747	1.59643	1.66608	0.16247	1.01684	0.61032	970.464	9.16117	968.813	10.4019	965.055	26.9661	965.055	26.9661	100.56
20-CGARB-1	91431.6	2.31047	10.8703	1.13464	3.24855	1.74373	0.25658	1.32398	0.75928	1472.34	17.4276	1468.83	13.5389	1463.74	21.5609	1463.74	21.5609	100.587
20-CGARB-1	90508.5	2.77518	13.6921	0.87671	1.73865	1.43266	0.17233	1.13302	0.79085	1024.95	10.7367	1022.96	9.23551	1018.7	17.7569	1018.7	17.7569	100.614
20-CGARB-1	7828921	4.62522	9.2194	1.0024	4.79642	1.86113	0.31994	1.56812	0.84256	1789.43	24.5026	1784.27	15.6386	1778.23	18.2864	1778.23	18.2864	100.63
20-CGARB-1	189093	2.65117	10.7415	0.953	3.37785	1.63003	0.26266	1.32234	0.81124	1503.45	17.7326	1499.27	12.7711	1493.36	18.0374	1493.36	18.0374	100.676
20-CGARB-1	90220.8	3.44062	13.6937	0.87524	1.74512	1.53919	0.17281	1.26506	0.8219	1027.56	12.0162	1025.36	9.93573	1020.63	17.7497	1020.63	17.7497	100.679
20-CGARB-1	50756.2	1.91035	13.3978	1.04639	1.85579	1.55395	0.18018	1.14082	0.73414	1067.93	11.2276	1065.49	10.2538	1060.5	21.2332	1060.5	21.2332	100.701
20-CGARB-1	155625	2.26296	13.6202	1.04547	1.7443	1.50684	0.17277	1.08512	0.72013	1027.34	10.305	1025.06	9.72524	1020.16	21.1678	1020.16	21.1678	100.704
20-CGARB-1	153906	2.55522	13.0388	1.0032	2.0314	1.50214	0.19138	1.11789	0.7442	1128.86	11.5763	1126.08	10.2213	1120.73	20.0087	1120.73	20.0087	100.725
20-CGARB-1	128439	3.85	12.6859	0.95755	2.19069	1.58475	0.2011	1.26249	0.79665	1181.22	13.6263	1178.09	11.0486	1172.35	18.9601	1172.35	18.9601	100.757
20-CGARB-1	240017	1.74735	13.3565	0.96157	1.86056	1.61231	0.18053	1.29413	0.80266	1069.85	12.7573	1067.19	10.6485	1061.77	19.3491	1061.77	19.3491	100.761
20-CGARB-1	162131	2.86275	12.8057	1.00722	2.13688	1.30638	0.19788	0.83194	0.63683	1163.91	8.8592	1160.82	9.03635	1155.03	19.9867	1155.03	19.9867	100.769
20-CGARB-1	172240	11.426	13.249	0.63381	1.93749	1.5191	0.18551	1.38056	0.9088	1097.03	13.9266	1094.13	10.174	1088.35	12.7068	1088.35	12.7068	100.797
20-CGARB-1	143301	1.38124	8.75098	0.92449	5.33028	1.56387	0.33886	1.26125	0.8065	1881.2	20.5783	1873.73	13.3716	1865.45	16.6885	1865.45	16.6885	100.844
20-CGARB-1	956627	3.07872	9.45059	0.80672	4.56174	1.50567	0.31171	1.27132	0.84435	1749.09	19.4752	1742.31	12.5401	1734.16	14.797	1734.16	14.797	100.861
20-CGARB-1	7703771	2.20749	9.14045	0.90507	4.89743	1.39568	0.32412	1.06244	0.76124	1809.8	16.7649	1801.81	11.7691	1792.57	16.4813	1792.57	16.4813	100.961
20-CGARB-1	144949	3.19779	14.2282	0.8244	1.52384	1.53072	0.1575	1.2897	0.84255	942.865	11.3127	940.021	9.3846	933.385	16.9103	933.385	16.9103	101.016
20-CGARB-1	3E+08	2.10866	11.7983	0.82461	2.70126	1.25645	0.22991	0.94799	0.7545	1334.03	11.4237	1328.8	9.31116	1320.37	15.9792	1320.37	15.9792	101.035
20-CGARB-1	188254	5.45002	12.0557	0.91858	2.52064	1.52234	0.22022	1.2139	0.79739	1283.02	14.1226	1278.01	11.0674	1269.59	17.9305	1269.59	17.9305	101.058
20-CGARB-1	267436	3.60825	9.11389	0.74382	4.90622	1.36584	0.32467	1.14553	0.8387	1812.5	18.0993	1803.33	11.5209	1792.72	13.5444	1792.72	13.5444	101.103
20-CGARB-1	8506833	1.97909	12.5196	0.84753	2.25617	1.3904	0.20525	1.10223	0.79274	1203.46	12.1004	1198.71	9.78248	1190.14	16.7301	1190.14	16.7301	101.119
20-CGARB-1	317490	1.19169	9.97482	0.89574	4.06394	1.49744	0.29273	1.19999	0.80136	1655.15	17.5167	1647.1	12.2028	1636.83	16.6346	1636.83	16.6346	101.119
20-CGARB-1	780841	35.87	13.716	0.81724	1.73487	1.8936	0.17238	1.70817	0.90207	1025.19	16.1906	1021.56	12.1975	1013.76	16.5632	1013.76	16.5632	101.128
20-CGARB-1	202301	4.59251	9.25028	0.62353	4.77038	1.31778	0.31987	1.16087	0.88093	1789.12	18.1364	1779.7	11.0622	1768.66	11.3895	1768.66	11.3895	101.157
20-CGARB-1	3332997	5.25711	12.7669	1.00172	2.14637	1.72183	0.19874	1.40045	0.81335	1168.56	14.9676	1163.88	11.9271	1155.16	19.8773	1155.16	19.8773	101.16
20-CGARB-1	92074.8	2.26257	13.5652	1.141	1.80131	1.58715	0.17691	1.10311	0.69502	1050.07	10.6892	1045.93	10.3631	1037.29	23.0638	1037.29	23.0638	101.232
20-CGARB-1	41775.6	3.25292	12.6555	1.10704	2.19637	1.6909	0.20181	1.27811	0.75588	1185.05	13.8356	1179.89	11.7982	1170.47	21.9176	1170.47	21.9176	101.245
20-CGARB-1	24697.7	1.11687	13.6023	1.12183	1.75686	1.58073	0.17394	1.11006	0.70224	1033.81	10.603	1029.69	10.2288	1020.95	22.8024	1020.95	22.8024	101.26
20-CGARB-1	99720.3	2.57776	11.8013	0.7574	2.67188	1.4425	0.22858	1.22747	0.85093	1327.07	14.7221	1320.71	10.6583	1310.4	14.7047	1310.4	14.7047	101.272

20-CGARB-1	439398	3.32065	13.596	1.09484	1.80865	1.52222	0.17743	1.05758	0.69476	1052.91	10.2736	1048.59	9.95357	1039.57	22.1204	1039.57	22.1204	101.284
20-CGARB-1	62814.3	0.92082	10.045	0.9255	3.99364	1.48629	0.29011	1.16296	0.78246	1642.08	16.8585	1632.9	12.07	1621.09	17.2224	1621.09	17.2224	101.295
20-CGARB-1	132654	2.37634	10.7926	0.86593	3.37017	1.38022	0.26315	1.07432	0.77837	1505.91	14.4276	1497.49	10.8081	1485.57	16.4159	1485.57	16.4159	101.37
20-CGARB-1	155546	5.78244	13.7588	0.86922	1.74242	1.28161	0.17307	0.94159	0.73469	1029.02	8.95544	1024.36	8.26828	1014.4	17.6183	1014.4	17.6183	101.442
20-CGARB-1	138418	1.48501	9.92465	0.97964	4.0974	1.66757	0.29455	1.34937	0.80918	1664.25	19.7922	1653.79	13.6113	1640.51	18.1888	1640.51	18.1888	101.447
20-CGARB-1	288299	1.43039	9.82243	0.96835	4.17387	1.64399	0.29768	1.32853	0.80812	1679.8	19.6461	1668.9	13.4672	1655.21	17.9406	1655.21	17.9406	101.486
20-CGARB-1	236391	2.55606	13.309	0.84489	1.90627	1.45072	0.18397	1.17925	0.81287	1088.65	11.8124	1083.28	9.6622	1072.52	16.9543	1072.52	16.9543	101.504
20-CGARB-1	16623.2	1.66036	17.8962	2.33854	0.52085	2.66681	0.06844	1.27492	0.47807	426.732	5.26432	425.719	9.27385	420.218	52.3089	426.732	5.26432	101.55
20-CGARB-1	63921.4	1.83305	13.4519	1.16088	1.82623	1.85698	0.17876	1.44923	0.78042	1060.21	14.1679	1054.93	12.1844	1044.02	23.4435	1044.02	23.4435	101.55
20-CGARB-1	109045	1.89913	13.5305	1.20477	1.79632	1.82685	0.17677	1.37319	0.75167	1049.33	13.2976	1044.12	11.9165	1033.22	24.366	1033.22	24.366	101.559
20-CGARB-1	1332113	6.11993	9.54265	0.92413	4.50468	1.89789	0.31066	1.6577	0.87344	1743.97	25.3293	1731.84	15.7713	1717.19	16.9872	1717.19	16.9872	101.559
20-CGARB-1	5593663	1.45402	5.33794	1.00025	13.8314	1.49149	0.5353	1.10637	0.74179	2763.76	24.8672	2738.23	14.1242	2719.44	16.4843	2719.44	16.4843	101.63
20-CGARB-1	2786078	5.42522	8.43848	0.75251	5.86869	1.26819	0.35789	1.02079	0.80492	1972.17	17.3437	1956.62	11.0026	1940.19	13.4612	1940.19	13.4612	101.648
20-CGARB-1	199480	2.26612	9.14768	0.79275	4.93186	1.37098	0.32652	1.11852	0.81585	1821.47	17.7482	1807.72	11.5745	1791.9	14.4376	1791.9	14.4376	101.65
20-CGARB-1	157331	3.3835	12.8249	0.94075	2.11195	1.47054	0.19704	1.13003	0.76844	1159.4	11.9909	1152.71	10.1338	1140.19	18.7146	1140.19	18.7146	101.685
20-CGARB-1	125629	1.74966	13.4289	1.06823	1.84185	1.50814	0.17988	1.06424	0.70566	1066.33	10.4594	1060.52	9.9252	1048.6	21.5615	1048.6	21.5615	101.691
20-CGARB-1	601575	4.60809	13.3852	0.78645	1.88911	1.36717	0.18301	1.11832	0.81798	1083.42	11.1527	1077.27	9.07729	1064.86	15.7973	1064.86	15.7973	101.743
20-CGARB-1	157204	3.09599	13.6575	0.76611	1.75996	1.35913	0.17456	1.1224	0.82583	1037.21	10.7533	1030.83	8.80037	1017.32	15.5248	1017.32	15.5248	101.955
20-CGARB-1	64952.5	2.24297	11.0402	1.07409	3.20474	1.54875	0.25614	1.11273	0.71847	1470.07	14.6267	1458.31	11.9863	1441.19	20.5305	1441.19	20.5305	102.003
20-CGARB-1	192133	2.7048	13.4733	0.96661	1.84667	1.48323	0.18046	1.12493	0.75844	1069.48	11.086	1062.24	9.77017	1047.41	19.5109	1047.41	19.5109	102.107
20-CGARB-1	100562	3.25699	12.9066	0.8463	2.10901	1.47017	0.19717	1.20208	0.81765	1160.1	12.7626	1151.75	10.1267	1136.09	16.8301	1136.09	16.8301	102.114
20-CGARB-1	13542.9	1.9709	13.6655	1.25373	1.69434	1.82939	0.17019	1.15084	0.62908	1013.18	10.7899	1006.4	11.6816	991.657	28.8981	991.657	28.8981	102.17
20-CGARB-1	6082026	1.97156	8.83195	0.89917	5.34934	1.39162	0.34193	1.06212	0.76323	1895.96	17.4463	1876.78	11.9054	1855.6	16.2485	1855.6	16.2485	102.175
20-CGARB-1	691006	1.41089	13.7809	0.87954	1.73607	1.33588	0.17307	1.00547	0.75267	1029	9.56285	1022.01	8.60689	1007.03	17.8245	1007.03	17.8245	102.182
20-CGARB-1	225073	3.31067	12.8664	0.79562	2.15034	1.37968	0.19975	1.12713	0.81695	1173.99	12.0974	1165.16	9.5625	1148.81	15.8036	1148.81	15.8036	102.192
20-CGARB-1	172420	3.47549	10.9255	0.83131	3.28389	1.37773	0.26018	1.0985	0.79733	1490.76	14.6205	1477.24	10.7241	1457.85	15.8114	1457.85	15.8114	102.257
20-CGARB-1	122631	2.6009	16.9941	1.08516	0.74513	2.13489	0.0921	1.83846	0.86115	567.933	9.99451	565.394	9.25594	555.215	23.6742	567.933	9.99451	102.291
20-CGARB-1	119688	3.84047	16.8367	0.91082	0.78602	1.74998	0.09622	1.49426	0.85387	592.193	8.45462	588.913	7.82023	576.314	19.7986	592.193	8.45462	102.755
20-CGARB-1	60805.3	3.98491	13.6379	0.95968	1.77892	1.40329	0.17634	1.02379	0.72956	1046.96	9.89358	1037.79	9.12161	1018.49	19.4367	1018.49	19.4367	102.795
20-CGARB-1	96442.5	2.71035	13.6407	0.85849	1.80126	1.46296	0.17793	1.1837	0.80911	1055.64	11.5261	1045.91	9.5521	1025.65	17.4097	1025.65	17.4097	102.924
20-CGARB-1	188957	3.60773	14.2039	0.75991	1.59852	1.46876	0.16393	1.2568	0.85569	978.572	11.4107	969.634	9.17459	949.413	15.5579	949.413	15.5579	103.071
20-CGARB-1	176268	3.10864	9.49084	0.7422	4.60356	1.40788	0.3168	1.19628	0.8497	1774.06	18.5529	1749.91	11.7447	1721.17	13.6396	1721.17	13.6396	103.073
20-CGARB-1	44441.9	3.23508	12.883	1.09391	2.12228	1.77565	0.1987	1.38996	0.78279	1168.32	14.8526	1156.08	12.2557	1133.18	21.9972	1133.18	21.9972	103.101
20-CGARB-1	149833	3.08862	13.0141	0.91957	2.08951	1.39468	0.19684	1.04835	0.75168	1158.34	11.115	1145.37	9.57796	1120.88	18.3642	1120.88	18.3642	103.342
20-CGARB-1	399730	1.75624	10.8589	0.91656	3.37926	1.51551	0.26601	1.20693	0.79639	1520.52	16.348	1499.6	11.8749	1470.14	17.3999	1470.14	17.3999	103.427
20-CGARB-1	32941.2	2.17383	13.4303	1.08687	1.8756	1.74365	0.18321	1.36301	0.7817	1084.47	13.6051	1072.51	11.5484	1048.29	21.9422	1048.29	21.9422	103.451
20-CGARB-1	159669	5.89157	13.2434	1.53196	2.01064	4.31169	0.1923	4.03028	0.93473	1133.83	41.9042	1119.11	29.2464	1090.6	30.6765	1090.6	30.6765	103.964
20-CGARB-1	497286	2.10822	4.64486	0.82175	18.2809	1.56913	0.61262	1.33675	0.8519	3080.49	32.7365	3004.64	15.1075	2954.26	13.2638	2954.26	13.2638	104.273
20-CGARB-1	95436	1.86728	18.1759	0.93411	0.51225	1.38769	0.06778	1.02524	0.73881	422.788	4.1955	419.963	4.77292	404.455	20.9378	422.788	4.1955	104.533
20-CGARB-1	74374	1.94302	17.8141	1.0033	0.59205	1.55627	0.07669	1.1833	0.76035	476.318	5.43308	472.178	5.87654	452.088	22.4577	476.318	5.43308	105.359
20-CGARB-1	33576.5	1.30187	17.7353	1.35744	0.60838	1.97172	0.07852	1.4128	0.71653	487.311	6.63094	482.538	7.57303	459.904	30.4984	487.311	6.63094	105.959
20-CGARB-1	105968	6.15551	17.1493	0.95415	0.7633	2.56562	0.09474	2.38076	0.92795	583.527	13.2822	575.911	11.2774	545.953	20.9138	583.527	13.2822	106.882
20-CGARB-1	17526	1.84457	18.0516	1.21418	0.5205	1.52217	0.06897	0.91685	0.60233	429.927	3.81321	425.486	5.29091	401.476	27.2186	429.927	3.81321	107.087

20-CGARB-2

Sample	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±	Conc
	204Pb		207Pb*	(%)	235U	(%)	238U	(%)	corr.	238U	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)
20-CGARB-2	28657.8	1.03904	14.4305	4.11532	0.67645	4.28004	0.07088	1.17211	0.27385	441.426	5.00083	524.629	17.5375	905.34	84.8506	441.426	5.00083	48.758
20-CGARB-2	280526	2.15518	17.4016	1.01182	0.52002	1.51864	0.06544	1.13243	0.74569	408.621	4.48375	425.166	5.27546	515.868	22.2012	408.621	4.48375	79.2104
20-CGARB-2	104833	2.672	8.39908	0.7865	4.55962	1.24837	0.27692	0.96941	0.77654	1575.85	13.5525	1741.92	10.3961	1947.51	14.0599	1947.51	14.0599	80.9161
20-CGARB-2	53867.2	2.63654	9.17054	0.95988	3.86706	1.75621	0.25685	1.47067	0.83741	1473.69	19.3743	1606.83	14.1693	1786.02	17.4941	1786.02	17.4941	82.5122
20-CGARB-2	95965.5	1.54775	12.6349	2.54898	1.76236	3.85566	0.16192	2.89282	0.75028	967.444	25.9878	1031.72	24.9822	1170.62	50.4687	1170.62	50.4687	82.6437
20-CGARB-2	22364.4	1.06335	17.1856	1.26588	0.59175	1.76021	0.07412	1.21549	0.69054	460.924	5.4069	471.983	6.64449	526.135	27.912	460.924	5.4069	87.6056
20-CGARB-2	192691	2.86483	5.5257	0.72429	10.9913	1.59541	0.4383	1.42151	0.891	2343.02	27.925	2522.4	14.8496	2670.06	11.9945	2670.06	11.9945	87.7516
20-CGARB-2	135414	6.41893	10.077	0.88103	3.39335	1.54559	0.24676	1.26989	0.82162	1421.75	16.2024	1502.86	12.1221	1619.14	16.3986	1619.14	16.3986	87.8092
20-CGARB-2	147255	1.43831	17.5524	1.16235	0.5564	1.95775	0.07058	1.57505	0.80452	439.627	6.69351	449.182	7.10657	498.38	25.601	439.627	6.69351	88.2111
20-CGARB-2	1.7E+07	8.99462	12.9698	0.74548	1.83315	1.68598	0.1716	1.51222	0.89693	1020.92	14.2781	1057.41	11.0772	1133.5	14.8345	1133.5	14.8345	90.0684
20-CGARB-2	16754.6	0.91097	12.6201	1.20712	1.92326	1.65553	0.17715	1.13119	0.68328	1051.4	10.9741	1089.2	11.06	1165.56	23.9688	1165.56	23.9688	90.206
20-CGARB-2	162760	1.33629	12.6022	1.02378	1.9995	1.74605	0.18194	1.41434	0.81003	1077.54	14.0345	1115.34	11.8189	1189.76	20.2139	1189.76	20.2139	90.5679
20-CGARB-2	6396945	0.85681	12.9837	0.7184	1.83062	1.40356	0.17212	1.20577	0.85908	1023.77	11.414	1056.5	9.21698	1124.75	14.3186	1124.75	14.3186	91.0224
20-CGARB-2	27916.2	1.73188	12.3575	1.13523	2.1094	2.27973	0.18951	1.97541	0.86651	1118.74	20.2884	1151.88	15.7047	1214.78	22.4024	1214.78	22.4024	92.0944
20-CGARB-2	75311	2.90372	9.75939	0.98753	3.84243	1.79998	0.27093	1.50488	0.83606	1545.5	20.6801	1601.68	14.5034	1676.38	18.2471	1676.38	18.2471	92.193
20-CGARB-2	148517	2.02935	17.5641	1.64384	0.5817	2.372	0.07381	1.71	0.72091	459.075	7.57717	465.55	8.85784	497.597	36.2275	459.075	7.57717	92.2583
20-CGARB-2	21340.7	1.47349	16.0295	1.40342	0.86891	1.86209	0.10172	1.22123	0.65584	624.497	7.26876	634.974	8.79076	672.441	30.0598	624.497	7.26876	92.8702
20-CGARB-2	463242	2.92921	9.42153	0.68011	4.17255	1.40968	0.28465	1.23476	0.87592	1614.75	17.6373	1668.64	11.5469	1737.11	12.4699	1737.11	12.4699	92.9561
20-CGARB-2	144439	1.11749	12.7887	0.99006	1.93928	1.74574	0.18033	1.43777	0.82359	1068.78	14.1603	1094.75	11.6958	1146.77	19.6677	1146.77	19.6677	93.1986
20-CGARB-2	67536.3	1.60459	17.515	1.62686	0.59675	1.98967	0.07561	1.14434	0.57514	469.887	5.1858	475.171	7.55049	500.741	35.8411	469.887	5.1858	93.8382
20-CGARB-2	95065.2	2.1698	10.1026	0.74803	3.60707	1.43431	0.26398	1.22371	0.85317	1510.16	16.4749	1551.09	11.4031	1607.29	13.9487	1607.29	13.9487	93.9566
20-CGARB-2	20805.1	1.90031	13.0744	1.20162	1.85083	1.92348	0.17631	1.50125	0.78049	1046.79	14.5054	1063.73	12.6805	1098.62	24.0451	1098.62	24.0451	95.2824
20-CGARB-2	11208.8	4.79653	11.1929	1.23276	2.76537	1.91043	0.22745	1.27643	0.66814	1321.13	15.2476	1346.24	14.2474	1386.36	27.2943	1386.36	27.2943	95.2943
20-CGARB-2	90994.2	2.7906	12.1651	1.2174	2.31876	1.64182	0.20405	1.10155	0.67093	1197.03	12.034	1218.05	11.6481	1255.48	23.7922	1255.48	23.7922	95.3441
20-CGARB-2	118078	3.33629	12.6898	1.10113	2.07667	1.795	0.19023	1.41744	0.78966	1122.61	14.6038	1141.14	12.3027	1176.56	21.7941	1176.56	21.7941	95.4144
20-CGARB-2	35975.2	1.86807	13.9763	1.03781	1.53277	1.67718	0.1554	1.29912	0.77458	931.188	11.2641	943.609	10.3064	972.73	21.6381	972.73	21.6381	95.7294
20-CGARB-2	9489.08	146.212	16.7183	1.40829	0.69102	2.45457	0.08556	1.52221	0.62015	529.219	7.73402	533.412	10.185	551.366	42.0365	529.219	7.73402	95.9833
20-CGARB-2	45133.5	3.58864	16.6357	0.85268	0.77938	1.7695	0.09417	1.55038	0.87617	580.168	8.60194	585.133	7.86994	604.424	18.4315	580.168	8.60194	95.9868
20-CGARB-2	108851	30.861	12.5507	0.77908	2.15174	1.25138	0.19514	0.97927	0.78255	1149.16	10.3074	1165.62	8.67498	1196.33	15.3492	1196.33	15.3492	96.0569
20-CGARB-2	80914.6	2.17583	12.238	1.13443	2.26138	1.59113	0.20148	1.11525	0.70092	1183.28	12.0563	1200.33	11.2028	1231.17	22.291	1231.17	22.291	96.11
20-CGARB-2	116938	5.58727	13.1473	0.89642	1.8859	1.54078	0.17915	1.25314	0.81332	1062.35	12.2737	1076.14	10.224	1104.16	17.9317	1104.16	17.9317	96.2136
20-CGARB-2	72022.2	1.62965	10.9857	0.96355	3.05504	1.78589	0.24256	1.50364	0.84196	1399.97	18.9217	1421.5	13.6626	1453.87	18.3324	1453.87	18.3324	96.2932
20-CGARB-2	1052744	1.25121	5.08348	0.76328	14.1037	1.25169	0.51953	0.99204	0.79255	2697.19	21.865	2756.7	11.8685	2800.57	12.4885	2800.57	12.4885	96.3088
20-CGARB-2	99686.5	2.17752	11.4007	1.07214	2.78174	1.58808	0.22944	1.17153	0.7377	1331.58	14.0941	1350.65	11.8617	1380.95	20.6028	1380.95	20.6028	96.4247
20-CGARB-2	228423	0.65185	5.28625	0.957	13.2243	1.51203	0.50611	1.17063	0.77421	2640	25.3587	2695.79	14.2745	2737.88	15.7448	2737.88	15.7448	96.4249
20-CGARB-2	47971.9	1.57928	13.5039	1.08256	1.7296	1.57111	0.16924	1.13083	0.71977	1007.95	10.5518	1019.6	10.1087	1044.73	22.0201	1044.73	22.0201	96.4794
20-CGARB-2	150436	2.02249	17.0905	1.0684	0.70449	1.57867	0.087	1.16202	0.73608	537.781	5.99555	541.471	6.62533	557.057	23.2997	537.781	5.99555	96.5397
20-CGARB-2	87509.3	1.60817	17.9775	1.45204	0.5301	1.73653	0.06889	0.95127	0.5478	429.451	3.95215	431.876	6.10879	444.812	32.2999	429.451	3.95215	96.5466
20-CGARB-2	146040	3.42395	10.7865	0.84031	3.21063	1.47246	0.25009	1.20913	0.82117	1438.94	15.5936	1459.73	11.4008	1490.1	15.9098	1490.1	15.9098	96.5666
20-CGARB-2	1.6E+07	2.45987	12.445	1.13851	2.21831	1.81176	0.19944	1.40935	0.77789	1172.31	15.1067	1186.84	12.6808	1213.43	22.4109	1213.43	22.4109	96.611
20-CGARB-2	1978997	2.40408	13.3186	1.00889	1.83595	1.4718	0.17626	1.07161	0.72809	1046.51	10.3515	1058.41	9.67508	1083.05	20.2212	1083.05	20.2212	96.6262
20-CGARB-2	32621.5	1.25042	17.3874	1.02724	0.6202	1.64954	0.0785	1.23239	0.74711	487.155	5.78243	489.975	6.41157	503.178	24.1533	487.155	5.78243	96.8157
20-CGARB-2	30676.1	2.42655	12.5028	1.37461	2.12946	1.9529	0.19446	1.36525	0.69909	1145.52	14.3284	1158.41	13.4938	1182.62	27.6167	1182.62	27.6167	96.8625
20-CGARB-2	23538.6	0.92492	12.2925	0.77094	2.2538	1.75545	0.20168	1.57319	0.89617	1184.32	17.0203	1197.97	12.3471	1222.66	15.3049	1222.66	15.3049	96.8639
20-CGARB-2	105926	1.29975	8.70923	0.79132	5.18163	1.56671	0.32662	1.35218	0.86307	1821.95	21.4608	1849.6	13.3354	1880.83	14.2559	1880.83	14.2559	96.8698
20-CGARB-2	125564	10.2955	12.3222	0.98558	2.24174	1.56855	0.20103	1.22002	0.7778	1180.87	13.1644	1194.2	11.0142	1218.43	19.4017	1218.43	19.4017	96.917
20-CGARB-2	88242.3	4.09288	16.7796	1.12488	0.76743	1.59789	0.09325	1.13341	0.70931	574.743	6.23223	578.289	7.04502	592.225	24.3982	574.743	6.23223	97.0481
20-CGARB-2	86270.8	2.88685	10.9851	0.86812	3.03205	1.68333	0.24233	1.44219	0.85675	1398.8	18.1348	1415.72	12.8539	1441.26	16.5452	1441.26	16.5452	97.0539
20-CGARB-2	151230	4.23294	9.75761	0.72128	4.06906	1.4775	0.28706	1.28936	0.87267	1626.8	18.538	1648.12	12.0432	1675.4	13.3321	1675.4	13.3321	97.0994
20-CGARB-2	143261	2.06762	13.1505	0.91293	1.87393	1.63579	0.179	1.35716	0.82967	1061.5	13.2827	1071.92	10.8306	1093.19	18.2676	1093.19	18.2676	97.1015
20-CGARB-2	147379	1.89778	11.859	1.21849	2.53051	1.75379	0.21723	1.26137	0.71922	1267.2	14.5112	1280.85	12.7644	1303.8	23.6684	1303.8	23.6684	97.1928
20-CGARB-2	126697	1.74467	10.699	0.96873	3.29156	2.3218	0.25455	2.10995	0.90876	1461.88	27.5978	1479.06	18.0837	1503.77	18.3102	1503.77	18.3102	97.2145
20-CGARB-2	125655	4.00922	14.0901	0.90323	1.50888	1.39975	0.15453	1.06921	0.76386	926.3	9.22538	933.987	8.54801	952.163	18.4732	952.163	18.4732	97.2837
20-CGARB-2	127946	3.0804	10.0354	0.74106	3.8345	1.32479	0.27795	1.09812	0.8289	1581.05	15.3967	1600.02	10.6696	1625.07	13.7827	1625.07	13.7827	97.2914
20-CGARB-2	242107	9.95458	11.7826	0.78678	2.59918	1.49327	0.22096	1.26918	0.84993	1286.97	14.8067	1300.41	10.9501	1322.64	15.2409	1322.64	15.2409	97.3032
20-CGARB-2	60431	7.93374	13.1914	0.8819	1.86919	1.35746	0.17884	1.03194	0.7602	1060.61	10.0919	1070.24	8.97968	1089.9	17.6507	1089.9	17.6507	97.3124
20-CGARB-2	1049668	2.29632	16.7925	1.00587	0.75746	1.58786	0.09235	1.22862	0.77376	569.429	6.69605	572.542	6.949	584.943	21.8341	569.429	6.69605	97.3477
20-CGARB-2	102761	1.10473	9.51773	1.00242	4.26055	1.62596	0.29488	1.28011	0.7873	1665.87	18.7925	1685.78	13.3721	1710.61	18.4436	1710.61	18.4436	97.3844
20-CGARB-2	193042	3.55501	13.4408	0.75875	1.78001	1.25692	0.17316	1.002	0.79718	1029.49	9.53396	1038.18	8.17191	1056.55	15.2987	1056.55	15.2987	97.439
20-CGARB-2	57644.2	2.74143	12.7688	0.88248	2.07093	1.48389	0.19145	1.18927	0.80146	1129.23	12.3191	1139.24	10.1611	1158.34	17.6095	1158.34	17.6095	97.4867
20-CGARB-2	46276.1	0.74475	11.7051	0.97456	2.584	1.47903	0.22037	1.11018	0.75061	1283.84	12.9234	1296.11	10.828	1316.49	18.9474	1316.49	18.9474	97.5196
20-CGARB-2	291694	5.31717	9.89505	1.17249	3.9648	1.87791	0.28362	1.46689	0.78113	1609.55	20.8935	1627.02	15.2285	1649.67	21.7391	1649.67	21.7391	97.5676
20-CGARB-2	415877	0.70841	9.82862	0.95465	4.03055	1.68363	0.28626	1.38681	0.8237	1622.83	19.8963	1640.38	13.6978	1662.93	17.6693	1662.93	17.6693	97.5884
20-CGARB-2	177842	2.78821	13.428	0.81876	1.76695	1.59806	0.17242	1.37231	0.85873	1025.41	13.0096	1033.4	10.3624	1050.38	16.5235	1050.38	16.5235	97.6224
20-CGARB-2	149845	1.91388	9.53795	0.98179	4.3295	1.81184	0.29787	1.52272	0.84043	1680.73	22.5285	1699	14.9462	1721.59	18.0389	1721.59	18.0389	97.6265
20-CGARB-2	798592	1.70044	13.7183	0.97185	1.65838	1.6273	0.16515	1.30522	0.80208	985.341	11.9262	992.757	10.3081	1009.16	19.6964	1009.16	19.6964	97.6397
20-CGARB-2	51461.4	1.35226	13.3942	1.31909	1.76713	2.23096	0.1726	1.79822	0.80603	1026.4	17.0626	1033.47	14.4674	1048.47	26.6333	1048.47	26.6333	97.8954
20-CGARB-2	171509	0.98027	10.57	0.99997	3.38077	1.64588	0.25941	1.30728	0.79427	1486.8	17.358	1499.95	12.8978	1518.56	18.8596	1518.56	18.8596	97.9086
20-CGARB-2	14130.4	1.03825	13.3567	1.31623	1.76729	1.92826	0.17264	1.32002	0.68456	1026.66	12.528	1033.53	12.5046	1048.11	28.3397	1048.11	28.3397	97.9534
20-CGARB-2	17323.6	1.23244	12.096	0.99446	2.35502	1.71068	0.20833	1.3872	0.8109	1219.9	15.4176	1229.08	12.1933	1245.24	19.626	1245.24	19.626	97.965
20-CGARB-2	991496	1.55498	13.3719	1.15768	1.82301	1.58039	0.1763	1.07583	0.68074	1046.71	10.3941	1053.77	10.363	1068.45	23.2689	1068.45	23.2689	97.9651
20-CGARB-2	59670	2.37963	9.76468	1.27145	4.04935	1.83143	0.28758	1.31814	0.71973	1629.44	18.9787	1644.17	14.9142	1663.04	23.534	1663.04	23.534	97.9798
20-CGARB-2	155522	2.66083	13.6221	1.07393	1.72211	1.67134	0.16972	1.28053	0.76617	1010.57	11.9773	1016.81	10.7366	1030.26	21.7314	1030.26	21.7314	98.0896
20-CGARB-2	148786	7.14914	13.6179	0.92626	1.71693	1.69386	0.16938	1.41816	0.83724	1008.69	13.2419	1014.88	10.8692	1028.22	18.7508	1028.22	18.7508	98.1005
20-CGARB-2	82161.9	1.47514	11.5507	1.0381	2.73078	1.62928	0.22878	1.25566	0.77068	1328.11	15.0708	1336.87	12.1097	1350.91	20.0336	1350.91	20.0336	98.3117
20-CGARB-2	31283.9	0.81747	13.7928	1.0956	1.63786	1.56561	0.16413	1.11826	0.71427	979.682	10.1636	984.89	9.87079	996.497	22.2457	996.497	22.2457	98.3126
20-CGARB-2	126710	1.61766	11.339	1.16761	2.88541	1.86438	0.23662	1.45322	0.77947	1369.08	17.9249	1378.11	14.0592	1392.11	22.4075	1392.11	22.4075	98.3456
20-CGARB-2	89894.6	1.45776	9.695	1.04957	4.19081	1.71971	0.29368	1.36223	0.79213	1659.88	19.9349	1672.22	14.0986	1687.74	19.3662	1687.74	19.3662	98.3492
20-CGARB-2	127656	0.71754	8.94174	0.90124	4.95263	1.41655	0.32156	1.09279	0.77144	1797.33	17.1407	1811.27	11.9677	1827.33	16.3439	1827.33	16.3439	98.3584
20-CGARB-2	460669	1.78387	10.708	0.75024	3.33305	1.38655	0.25783	1.16604	0.84097	1478.72	15.4078	1488.83	10.83	1503.24	14.1795	1503.24	14.1795	98.3689
20-CGARB-2	165135	2.58295	10.6265	0.98722	3.35604	1.56801	0.2589	1.21814	0.77687	1484.19	16.1492	1494.2	12.2669	1508.41	18.646	1508.41	18.646	98.3942
20-CGARB-2	136465	2.70076	12.6238	0.89531	2.13836	1.57331	0.1962	1.29341	0.82209	1154.87	13.6756	1161.29	10.8853	1173.31	17.7392	1173.31	17.7392	98.4283
20-CGARB-2	174917	0.80285	16.3915	0.98872	0.8779	1.68073	0.10399	1.35913	0.80866	637.745	8.25286	639.848	7.9783	647.3	21.259	637.745	8.25286	98.5239
20-CGARB-2	149617	3.14929	8.19615	0.83387	5.99429	1.69044	0.35549	1.47046	0.86987	1960.77	24.8602	1975.02	14.7114	1989.95	14.83	1989.95	14.83	98.5335
20-CGARB-2	176654	2.50263	10.1168	0.9976	3.8049	1.83336	0.27854	1.53818	0.83899	1583.98	21.602	1593.78	14.7424	1606.75	18.5985	1606.75	18.5985	98.5831
20-CGARB-2	1362313	3.51745	9.33995	0.78878	4.57327	1.38437	0.30847	1.13768	0.8218	1733.17	17.2898	1744.41	11.535	1757.88	14.4271	1757.88	14.4271	98.5943
20-CGARB-2	1115628	1.66132	5.73766	0.8067	11.8497	1.55284	0.49054	1.32686	0.85447	2573.02	28.1499	2592.6	14.5412	2607.92	13.4355	2607.92	13.4355	98.6618
20-CGARB-2	208304	5.35427	12.0992	0.93014	2.45666	1.42701	0.21458	1.08218	0.75835	1253.16	12.3247	1259.38	10.2982	1270.02	18.1545	1270.02	18.1545	98.6726

20-CGARB-2	1989704	1.63918	9.78229	0.71715	4.12513	1.52059	0.29163	1.34085	0.8818	1649.69	19.5165	1659.29	12.4279	1671.45	13.2586	1671.45	13.2586	98.6985
20-CGARB-2	209128	1.69513	12.6357	0.75589	2.18511	1.46079	0.19923	1.24997	0.85568	1171.21	13.3869	1176.31	10.1761	1185.72	14.9162	1185.72	14.9162	98.7766
20-CGARB-2	240616	2.85779	13.602	0.96563	1.75183	1.52204	0.17212	1.17649	0.77297	1023.8	11.1371	1027.84	9.83877	1036.42	19.5225	1036.42	19.5225	98.7821
20-CGARB-2	38369.7	1.53268	12.8568	0.9472	2.04407	1.69933	0.19079	1.40973	0.82958	1125.66	14.5605	1130.32	11.5869	1139.3	18.8545	1139.3	18.8545	98.8028
20-CGARB-2	1057411	2.06154	12.7698	1.06187	2.10141	1.4851	0.19429	1.03825	0.69911	1144.55	10.8881	1149.27	10.2177	1158.17	21.0745	1158.17	21.0745	98.8234
20-CGARB-2	263717	4.78568	8.70846	1.02276	5.25748	1.861	0.33274	1.55475	0.83544	1851.67	25.0233	1861.99	15.8778	1873.51	18.4425	1873.51	18.4425	98.8345
20-CGARB-2	40225.2	1.19614	9.94755	0.75281	3.95349	1.49353	0.28498	1.2883	0.86259	1616.41	18.4187	1624.71	12.1041	1635.45	14.0356	1635.45	14.0356	98.8359
20-CGARB-2	100732	1.52625	12.8797	0.96701	2.06381	1.49409	0.19205	1.13836	0.76191	1132.47	11.8227	1136.88	10.2195	1145.31	19.2108	1145.31	19.2108	98.879
20-CGARB-2	164303	1.52155	4.23133	0.77665	19.7251	1.43615	0.60693	1.20802	0.84115	3057.7	29.4127	3077.98	13.8796	3091.23	12.3873	3091.23	12.3873	98.9152
20-CGARB-2	127095	3.84178	14.1055	0.85992	1.55439	1.54966	0.15866	1.28872	0.83162	949.325	11.376	952.24	9.57532	959.002	17.6024	959.002	17.6024	98.991
20-CGARB-2	194308	1.26068	13.5477	1.1205	1.74112	1.61776	0.17155	1.16688	0.72129	1020.63	11.0146	1023.88	10.4342	1030.82	22.6686	1030.82	22.6686	99.0115
20-CGARB-2	102234	2.03692	10.0037	0.80817	3.92792	1.5663	0.28426	1.3416	0.85654	1612.78	19.1428	1619.45	12.6773	1628.11	15.0277	1628.11	15.0277	99.0581
20-CGARB-2	80687.8	1.07128	18.3946	1.16598	0.44514	2.08072	0.05963	1.72176	0.82748	373.38	6.24608	373.871	6.50783	376.891	26.2728	373.38	6.24608	99.0683
20-CGARB-2	1078031	4.10196	12.5886	0.91201	2.19445	1.56908	0.20002	1.27681	0.81373	1175.45	13.7195	1179.28	10.9452	1186.34	18.0156	1186.34	18.0156	99.0826
20-CGARB-2	86933.2	4.6387	13.4359	0.92021	1.81803	1.74471	0.17668	1.48156	0.84917	1048.84	14.3409	1051.98	11.4295	1058.51	18.548	1058.51	18.548	99.086
20-CGARB-2	45214.1	1.99624	12.9997	1.12505	1.96057	1.5995	0.18584	1.12812	0.70529	1098.82	11.3971	1102.08	10.7557	1108.49	22.6448	1108.49	22.6448	99.1274
20-CGARB-2	82625.2	3.05904	12.7815	1.44372	2.08014	1.83358	0.19323	1.1302	0.61639	1138.86	11.7985	1142.28	12.574	1148.79	28.6964	1148.79	28.6964	99.1353
20-CGARB-2	48562.4	1.32411	13.6011	1.07948	1.73653	1.82149	0.17132	1.46532	0.80446	1019.4	13.8163	1022.18	11.737	1028.1	21.8999	1028.1	21.8999	99.1544
20-CGARB-2	50418.1	2.65797	5.3471	0.79749	13.4348	1.64995	0.51973	1.44428	0.87534	2698.03	31.8407	2710.71	15.594	2720.16	13.1489	2720.16	13.1489	99.1865
20-CGARB-2	59073.5	1.77141	13.6608	1.0628	1.70584	1.39183	0.16928	0.89862	0.64564	1008.16	8.38658	1010.72	8.9097	1016.27	21.5237	1016.27	21.5237	99.2012
20-CGARB-2	233754	1.72637	9.47966	0.86609	4.37372	1.70484	0.30204	1.46846	0.86135	1701.42	21.9594	1707.39	14.0902	1714.71	15.9251	1714.71	15.9251	99.2249
20-CGARB-2	354323	1.13624	9.90902	0.89474	3.98339	1.66536	0.28675	1.40458	0.84341	1625.28	20.1781	1630.82	13.5174	1637.94	16.6136	1637.94	16.6136	99.2271
20-CGARB-2	752541	2.37575	10.8897	0.91374	3.24764	1.4768	0.25495	1.16018	0.7856	1463.98	15.1942	1468.61	11.4654	1475.31	17.3343	1475.31	17.3343	99.2318
20-CGARB-2	491749	2.66676	11.8998	0.85417	2.5444	1.5727	0.21986	1.32052	0.83965	1281.14	15.3427	1284.84	11.464	1291	16.6212	1291	16.6212	99.2361
20-CGARB-2	131441	1.17632	13.8056	0.95583	1.65956	1.44763	0.16615	1.087	0.75088	990.877	9.98386	993.208	9.17241	998.341	19.4033	998.341	19.4033	99.2524
20-CGARB-2	384604	4.16639	13.3222	1.09416	1.84791	1.70629	0.17876	1.30928	0.76733	1060.18	12.7994	1062.68	11.2423	1067.85	21.9765	1067.85	21.9765	99.2816
20-CGARB-2	88789.1	3.42001	9.34556	0.93107	4.58625	1.49788	0.31018	1.17287	0.78302	1741.61	17.9002	1746.77	12.4872	1752.94	17.0492	1752.94	17.0492	99.3534
20-CGARB-2	156422	1.39197	9.74519	0.92137	4.16938	1.33108	0.29448	0.96062	0.72169	1663.86	14.0873	1668.02	10.9014	1673.25	17.0313	1673.25	17.0313	99.4392
20-CGARB-2	60085.7	2.24526	13.0668	1.14815	1.946	1.62832	0.18515	1.1538	0.70858	1095.02	11.6195	1097.07	10.9219	1101.14	22.9641	1101.14	22.9641	99.4443
20-CGARB-2	37871.2	2.27248	13.3845	1.11146	1.83124	1.65571	0.1778	1.21204	0.73204	1054.94	11.7949	1056.72	10.8743	1060.42	22.7148	1060.42	22.7148	99.4832
20-CGARB-2	113628	2.32861	13.4587	1.05029	1.81982	1.77076	0.17707	1.42564	0.8051	1050.95	13.8253	1052.62	11.6042	1056.1	21.1695	1056.1	21.1695	99.5123
20-CGARB-2	106086	2.56216	5.12818	0.7094	14.4781	1.46349	0.53794	1.28005	0.87466	2774.81	28.8629	2781.56	13.9008	2786.46	11.6185	2786.46	11.6185	99.5819
20-CGARB-2	7681548	2.46387	13.0457	0.85472	2.00831	1.49284	0.18916	1.22393	0.81987	1116.8	12.5504	1118.32	10.1196	1121.29	17.0478	1121.29	17.0478	99.5992
20-CGARB-2	101171	2.05292	9.35426	0.88223	4.56602	1.51356	0.30989	1.22981	0.81253	1740.16	18.7556	1743.09	12.6079	1746.58	16.1581	1746.58	16.1581	99.6325
20-CGARB-2	3051991	4.3919	13.2462	0.92573	1.92015	1.80258	0.18366	1.54671	0.85806	1086.94	15.471	1088.12	12.0358	1090.46	18.5273	1090.46	18.5273	99.6772
20-CGARB-2	40140.2	2.76604	10.2085	1.01819	3.76363	1.95304	0.27834	1.66658	0.85333	1583	23.3926	1585.02	15.6691	1587.69	19.0306	1587.69	19.0306	99.7049
20-CGARB-2	109385	2.0738	11.3412	0.9257	2.91172	1.68496	0.23939	1.40781	0.83551	1383.54	17.5293	1384.96	12.7357	1387.13	17.7745	1387.13	17.7745	99.7414
20-CGARB-2	65740.8	3.56852	13.5239	0.95497	1.79208	1.51669	0.17539	1.17795	0.77666	1041.72	11.3308	1042.58	9.88483	1044.41	19.2909	1044.41	19.2909	99.7432
20-CGARB-2	50830.3	1.65517	13.231	1.07878	1.90313	1.62143	0.18262	1.209	0.74564	1081.27	12.0351	1082.19	10.7931	1084.04	21.6481	1084.04	21.6481	99.7444
20-CGARB-2	82451.3	0.69667	12.4212	1.04369	2.30161	1.72153	0.20679	1.36897	0.79521	1211.71	15.1222	1212.78	12.1863	1214.68	20.5338	1214.68	20.5338	99.755
20-CGARB-2	141426	0.95317	12.6461	0.90709	2.20488	1.42655	0.20126	1.101	0.77179	1182.11	11.8915	1182.59	9.96562	1183.5	17.9258	1183.5	17.9258	99.8827
20-CGARB-2	210246	3.87953	10.8614	0.85276	3.26729	1.49925	0.25664	1.23309	0.82248	1472.61	16.2339	1473.3	11.6562	1474.27	16.1799	1474.27	16.1799	99.8873
20-CGARB-2	355281	1.51469	13.6694	1.02674	1.74659	1.56742	0.17245	1.18431	0.75558	1025.6	11.2294	1025.9	10.1211	1026.53	20.7873	1026.53	20.7873	99.91
20-CGARB-2	128001	2.64617	14.3137	1.13749	1.47194	1.68349	0.15317	1.2408	0.73704	918.709	10.6243	918.927	10.179	919.472	23.3951	919.472	23.3951	99.917
20-CGARB-2	66457.2	34.4048	13.2205	1.02537	1.88542	1.56575	0.1816	1.18304	0.75558	1075.73	11.7212	1075.97	10.3888	1076.47	20.5806	1076.47	20.5806	99.9309
20-CGARB-2	231632	1.50307	11.7472	0.93008	2.66362	1.67406	0.22689	1.39189	0.83145	1318.16	16.5931	1318.43	12.359	1318.84	18.0281	1318.84	18.0281	99.9481
20-CGARB-2	61128.6	2.74694	9.8624	0.89449	4.08286	1.61631	0.29184	1.34623	0.8329	1650.72	19.6054	1650.89	13.1836	1651.08	16.5808	1651.08	16.5808	99.9784
20-CGARB-2	96857.5	3.29556	13.715	1.11764	1.68988	1.63092	0.16865	1.18762	0.72819	1004.65	11.0482	1004.72	10.404	1004.85	22.6771	1004.85	22.6771	99.9805
20-CGARB-2	115444	0.83767	9.83017	0.76345	4.09128	1.39713	0.29219	1.16979	0.83728	1652.46	17.0517	1652.57	11.4003	1652.69	14.1569	1652.69	14.1569	99.9861
20-CGARB-2	130175	1.93125	10.6901	0.87862	3.35048	1.34545	0.2606	1.01886	0.75727	1492.92	13.578	1492.9	10.5216	1492.86	16.6307	1492.86	16.6307	100.004
20-CGARB-2	10235.3	0.86971	12.8191	1.62571	2.02516	2.05452	0.19049	1.20302	0.58555	1124.05	12.4093	1123.99	13.9662	1123.86	33.202	1123.86	33.202	100.018
20-CGARB-2	338205	2.39043	12.9403	1.12782	2.02154	1.69167	0.19027	1.26086	0.74533	1122.86	12.9932	1122.78	11.4926	1122.61	22.4782	1122.61	22.4782	100.023
20-CGARB-2	114672	1.14659	6.70436	0.76285	9.04615	1.58467	0.43832	1.38891	0.87647	2343.11	27.2854	2342.68	14.4898	2342.3	13.0507	2342.3	13.0507	100.035
20-CGARB-2	138519	1.63638	12.8954	1.0634	2.02166	1.91532	0.19029	1.59298	0.8317	1122.97	16.4172	1122.82	13.0124	1122.53	21.2119	1122.53	21.2119	100.038
20-CGARB-2	49563.8	1.4349	9.76777	0.97489	4.1349	1.77376	0.29402	1.48177	0.83538	1661.59	21.7039	1661.23	14.504	1660.75	18.0506	1660.75	18.0506	100.051
20-CGARB-2	157303	1.23895	11.3842	0.9156	2.87685	1.49263	0.238	1.17872	0.78969	1376.29	14.6078	1375.87	11.2471	1375.2	17.611	1375.2	17.611	100.079
20-CGARB-2	53432.8	3.2413	12.6633	0.93557	2.16404	1.38019	0.19901	1.01435	0.73494	1170	10.8532	1169.57	9.5853	1168.8	18.554	1168.8	18.554	100.103
20-CGARB-2	19698.1	3.09505	11.9544	0.80693	2.51518	1.66292	0.21908	1.45396	0.87434	1277.01	16.8439	1276.43	12.0821	1275.43	15.7203	1275.43	15.7203	100.124
20-CGARB-2	65953.7	1.81846	13.3614	0.9761	1.85027	1.67246	0.17945	1.35804	0.812	1063.97	13.3197	1063.53	11.0243	1062.64	19.6382	1062.64	19.6382	100.125
20-CGARB-2	311505	1.42586	11.697	1.00957	2.72841	1.51516	0.23047	1.1298	0.74567	1336.96	13.6416	1336.23	11.2588	1335.04	19.523	1335.04	19.523	100.144
20-CGARB-2	343881	1.14864	12.307	1.00279	2.39097	1.5579	0.21221	1.19224	0.76528	1240.61	13.4548	1239.9	11.1542	1238.66	19.6706	1238.66	19.6706	100.157
20-CGARB-2	119291	2.958	10.8411	0.76197	3.25956	1.43929	0.25661	1.22101	0.84834	1472.49	16.0737	1471.46	11.1838	1469.95	14.4667	1469.95	14.4667	100.173
20-CGARB-2	128688	3.02378	10.5517	0.91194	3.49419	1.71248	0.26729	1.44937	0.84636	1527.03	19.7063	1525.9	13.52	1524.33	17.1888	1524.33	17.1888	100.177
20-CGARB-2	120659	2.18599	10.8592	0.76766	3.27158	1.59672	0.25724	1.3998	0.87667	1475.72	18.4633	1474.32	12.4179	1472.29	14.5783	1472.29	14.5783	100.233
20-CGARB-2	28385.8	2.62825	11.1893	1.31987	2.99969	1.76857	0.24427	1.17305	0.66328	1408.86	14.8454	1407.54	13.4688	1405.53	25.3471	1405.53	25.3471	100.237
20-CGARB-2	507065	1.16041	4.45608	0.89685	18.668	1.62811	0.59999	1.35883	0.8346	3029.81	32.8484	3024.82	15.6923	3021.5	14.3929	3021.5	14.3929	100.275
20-CGARB-2	416941	1.53868	10.7748	0.89346	3.31593	1.57455	0.25936	1.29651	0.82342	1486.57	17.2127	1484.81	12.284	1482.27	16.9338	1482.27	16.9338	100.29
20-CGARB-2	36672.5	1.9135	11.4507	1.01403	2.81163	1.8331	0.23492	1.52707	0.83306	1360.23	18.7266	1358.64	13.7306	1356.12	19.5537	1356.12	19.5537	100.303
20-CGARB-2	37325.5	1.98234	10.502	0.97821	3.48321	1.57177	0.26696	1.23008	0.78261	1525.35	16.7084	1523.42	12.4002	1520.72	18.4481	1520.72	18.4481	100.304
20-CGARB-2	159743	1.83491	9.41155	0.66238	4.5945	1.20749	0.31203	1.00955	0.83607	1750.69	15.4775	1748.27	10.0695	1745.36	12.1336	1745.36	12.1336	100.305
20-CGARB-2	50849	1.95528	10.5892	1.49499	3.48631	2.05102	0.26711	1.40378	0.68443	1526.12	19.0763	1524.12	16.185	1521.33	28.1936	1521.33	28.1936	100.314
20-CGARB-2	18219.2	1.64695	13.1703	1.25473	1.90687	1.7585	0.18333	1.22464	0.69641	1085.12	12.2306	1083.49	11.7135	1080.2	25.3024	1080.2	25.3024	100.456
20-CGARB-2	70210.2	1.95972	10.9525	0.66988	3.20658	1.35883	0.25449	1.18046	0.86873	1461.61	15.4375	1458.75	10.5178	1454.57	12.8029	1454.57	12.8029	100.483
20-CGARB-2	112820	2.06691	13.6043	1.05689	1.78217	1.76507	0.17518	1.41328	0.80069	1040.61	13.5811	1038.97	11.4809	1035.51	21.3782	1035.51	21.3782	100.492
20-CGARB-2	147295	3.02063	12.8726	0.77512	2.06119	1.34097	0.19307	1.09399	0.81582	1137.99	11.4125	1136.01	9.16829	1132.23	15.4223	1132.23	15.4223	100.509
20-CGARB-2	155882	7.6019	10.5659	1.05114	3.52548	1.69481	0.26911	1.32943	0.78441	1536.29	18.1725	1532.95	13.407	1528.33	19.8002	1528.33	19.8002	100.521
20-CGARB-2	109850	2.83107	13.6169	1.49227	1.77823	2.0198	0.17495	1.36109	0.67387	1039.31	13.0645	1037.53	13.1275	1033.76	30.1732	1033.76	30.1732	100.537
20-CGARB-2	120086	1.18667	9.75986	0.89616	4.2138	1.57273	0.29788	1.29217	0.82161	1680.76	19.1179	1676.71	12.9071	1671.62	16.5753	1671.62	16.5753	100.547
20-CGARB-2	677232	3.50356	12.2128	1.01557	2.43231	1.58231	0.21487	1.21339	0.76685	1254.73	13.8347	1252.2	11.386	1247.89	19.8653	1247.89	19.8653	100.548
20-CGARB-2	252053	1.31698	10.0072	0.92157	4.00882	1.48091	0.28982	1.15921	0.78277	1640.63	16.7912	1635.99	12.0354	1630	17.1293	1630	17.1293	100.652
20-CGARB-2	96515.8	1.52441	9.83312	0.96807	4.10418	1.58916	0.29368	1.26011	0.79294	1659.9	18.4406	1655.14	12.9754	1649.08	17.9534	1649.08	17.9534	100.656
20-CGARB-2	81339.2	0.73414	5.34644	0.81429	13.7079	1.49954	0.52978	1.25916	0.8397	2740.52	28.1105	2729.74	14.1918	2721.76	13.4167	2721.76	13.4167	100.689
20-CGARB-2	2253373	0.79778	12.6628	1.07844	2.19812	1.58283	0.20151	1.15858	0.73197	1183.4	12.5259	1180.45	11.0468	1175.05	21.3508	1175.05	21.3508	100.711
20-CGARB-2	1073805	0.52083	5.29778	0.93317	13.832	1.5064	0.53191	1.18256	0.78502	2749.5	26.4697	2738.27	14.2654	2729.99	15.3637	2729.99	15.3637	100.715
20-CGARB-2	142987	3.36397	11.8578	0.93454	2.61162	1.62789	0.22487	1.33288	0.81878	1307.58	15.7745	1303.91	11.9531	1297.87	18.1683	1297.87	18.1683	100.748
20-CGARB-2	2884109	3.66246	9.3373	0.75488	4.63435	1.45117	0.31429	1.23937	0.85405	1761.77	19.1055	1755.48	12.1203	1747.98	13.8223	1747.98	13.8223	100.789
20-CGARB-2	143319	1.11185	9.4442	0.86213	4.56504	1.60361	0.31175	1.35211	0.84317	1749.31	20.7152	1742.91	13.3577	1735.22	15.8125	1735.22	15.8125	100.812
20-CGARB-2	149719	2.25052	10.5832	0.82835	3.52551	1.47514	0.26948	1.22057	0.82742	1538.16	16.7025	1532.95	11.6691	1525.76	15.6085	1525.76	15.6085	100.813
20-CGARB-2	59939.9	1.88327	13.4169	1.15515	1.82179	1.68744	0.17802	1.22628	0.72671	1056.17	11.9462	1053.33	11.0624	1047.47	23.3919	1047.47	23.3919	100.83
20-CGARB-2	1154261	2.22284	8.96918	0.81445	5.09398	1.41067	0.3308	1.15181	0.8165	1842.25	18.4565	1835.1	11.9738	1826.99	14.7686	1826.99	14.7686	100.835
20-CGARB-2	199368	6.94968	12.8284	0.86671	2.09989	1.48994	0.19569	1.21187	0.81337	1152.1	12.7855	1148.77	10.2486	1142.51	17.2314	1142.51	17.2314	100.839
20-CGARB-2	131023	2.00996	13.4969	0.7915	1.80701	1.31121	0.17706	1.04516	0.79709	1050.87	10.1348	1048	8.57097	1041.99	15.9968	1041.99	15.9968	100.853

20-CGARB-2	59680.8	2.40366	13.2212	1.15498	1.93585	1.65708	0.18545	1.181	0.7127	1096.68	11.91	1093.56	11.095	1087.37	23.2784	1087.37	23.2784	100.856
20-CGARB-2	143948	36.3621	13.5568	0.91599	1.78437	1.44303	0.17556	1.11498	0.77267	1042.67	10.7341	1039.78	9.3902	1033.68	18.5269	1033.68	18.5269	100.87
20-CGARB-2	131841	1.58807	9.88671	0.89383	4.09371	1.57235	0.29358	1.29343	0.82261	1659.4	18.9232	1653.05	12.8318	1644.97	16.5875	1644.97	16.5875	100.877
20-CGARB-2	38921	4.38922	13.571	1.14162	1.78909	1.72203	0.17589	1.28858	0.74829	1044.46	12.425	1041.49	11.2165	1035.25	23.0943	1035.25	23.0943	100.89
20-CGARB-2	120093	2.01236	9.10086	0.81624	4.96364	1.42389	0.32645	1.16662	0.81932	1821.14	18.5086	1813.15	12.0341	1803.96	14.845	1803.96	14.845	100.953
20-CGARB-2	346737	1.45008	9.92312	0.72466	4.09925	1.23716	0.29401	1.00271	0.81049	1661.53	14.6864	1654.15	10.0988	1644.79	13.445	1644.79	13.445	101.018
20-CGARB-2	225909	9.32569	13.1585	0.94694	1.98796	1.70409	0.18888	1.41675	0.83138	1115.29	14.5096	1111.43	11.5126	1103.88	18.9435	1103.88	18.9435	101.034
20-CGARB-2	4828892	1.36379	5.39475	0.80683	13.4557	1.44083	0.52692	1.19374	0.82851	2728.44	26.5557	2712.18	13.6187	2700.06	13.3205	2700.06	13.3205	101.051
20-CGARB-2	147161	5.7038	13.8485	0.88967	1.70106	1.55696	0.17003	1.27771	0.82064	1012.3	11.9699	1008.93	9.95653	1001.6	18.0483	1001.6	18.0483	101.068
20-CGARB-2	312929	1.1238	9.76744	0.90143	4.19949	1.56221	0.2981	1.27589	0.81672	1681.88	18.888	1673.92	12.8123	1663.94	16.6822	1663.94	16.6822	101.078
20-CGARB-2	32522.8	1.95691	13.4298	0.78978	1.82846	1.28868	0.17867	1.01033	0.784	1059.68	9.87258	1055.73	8.45905	1047.58	16.148	1047.58	16.148	101.155
20-CGARB-2	60070.3	1.3963	12.6545	1.02462	2.18333	1.65541	0.20099	1.30017	0.78541	1180.64	14.0268	1175.74	11.529	1166.71	20.2979	1166.71	20.2979	101.195
20-CGARB-2	60004.8	2.01918	13.4306	1.04448	1.83491	1.77205	0.17914	1.43147	0.8078	1062.26	14.0192	1058.04	11.6467	1049.36	21.0752	1049.36	21.0752	101.229
20-CGARB-2	31810.7	2.5628	12.8728	1.16679	2.09219	1.84311	0.19551	1.42651	0.77397	1151.15	15.0386	1146.24	12.6631	1136.99	23.203	1136.99	23.203	101.245
20-CGARB-2	46922.4	2.15814	10.7814	0.9792	3.38226	1.54018	0.26367	1.18859	0.77173	1508.59	15.9874	1500.3	12.0706	1488.58	18.5485	1488.58	18.5485	101.344
20-CGARB-2	506460	3.65397	13.4961	0.92856	1.81602	1.58576	0.17796	1.28546	0.81063	1055.81	12.5189	1051.25	10.3841	1041.76	18.7575	1041.76	18.7575	101.349
20-CGARB-2	511101	3.18805	5.40163	0.91668	13.6182	1.38983	0.53074	1.04466	0.75165	2744.56	23.3493	2723.53	13.1474	2707.96	15.1267	2707.96	15.1267	101.352
20-CGARB-2	22060.7	0.99944	13.465	1.32436	1.81086	1.97488	0.17763	1.40052	0.70917	1054.03	13.6182	1049.39	12.9193	1039.72	28.1273	1039.72	28.1273	101.377
20-CGARB-2	78664.4	3.45225	13.0144	0.89949	2.0315	1.49777	0.19185	1.1957	0.79832	1131.4	12.4075	1126.12	10.1917	1115.97	18.0196	1115.97	18.0196	101.383
20-CGARB-2	247142	1.82341	9.79539	0.99647	4.2559	1.54	0.30081	1.17416	0.76244	1695.33	17.5035	1684.88	12.6624	1671.88	18.4224	1671.88	18.4224	101.402
20-CGARB-2	74374.8	1.66568	13.5425	1.22787	1.82406	1.74096	0.17854	1.23382	0.7087	1059	12.0494	1054.15	11.4183	1044.13	24.7971	1044.13	24.7971	101.424
20-CGARB-2	293844	1.91652	10.7717	0.92909	3.34699	1.59915	0.26215	1.30155	0.8139	1500.84	17.427	1492.09	12.5028	1479.65	17.6156	1479.65	17.6156	101.432
20-CGARB-2	274738	1.87934	11.7254	0.89494	2.72922	1.60607	0.23179	1.3336	0.83035	1343.88	16.1773	1336.45	11.9353	1324.54	17.3327	1324.54	17.3327	101.46
20-CGARB-2	104279	2.56789	11.5539	1.04648	2.85723	1.61314	0.23845	1.2275	0.76094	1378.63	15.2356	1370.72	12.1337	1358.38	20.1758	1358.38	20.1758	101.491
20-CGARB-2	2305493	3.0453	14.3118	0.70154	1.49784	1.73999	0.15585	1.5923	0.91512	933.66	13.8402	929.509	10.5948	919.696	14.4371	919.696	14.4371	101.518
20-CGARB-2	264836	2.72103	16.5261	1.05513	0.86311	1.6853	0.10333	1.3141	0.77974	633.894	7.93356	631.821	7.92764	624.391	22.7726	633.894	7.93356	101.522
20-CGARB-2	24076.6	1.61827	12.4132	0.97109	2.31755	1.77683	0.20917	1.48796	0.83743	1224.4	16.5929	1217.67	12.604	1205.8	19.1103	1205.8	19.1103	101.542
20-CGARB-2	131694	1.37651	18.1299	0.91365	0.53151	1.90251	0.06962	1.66875	0.87713	433.849	7.0016	432.809	6.7043	427.256	20.3757	433.849	7.0016	101.543
20-CGARB-2	55057.4	2.00574	11.4369	0.94071	2.87789	1.40162	0.23962	1.03852	0.74094	1384.71	12.941	1376.14	10.5622	1362.85	18.1325	1362.85	18.1325	101.605
20-CGARB-2	147742	2.76076	12.3842	0.67779	2.32809	1.33063	0.20984	1.14495	0.86045	1227.95	12.8014	1220.9	9.45159	1208.46	13.3312	1208.46	13.3312	101.613
20-CGARB-2	215835	10.8189	12.0028	0.74314	2.57354	1.55373	0.22368	1.36444	0.87817	1301.31	16.0782	1293.15	11.362	1279.61	14.4677	1279.61	14.4677	101.695
20-CGARB-2	13369	3.16931	13.5831	1.32668	1.70014	2.20796	0.17034	1.65223	0.74831	1013.98	15.5022	1008.58	14.1172	996.863	29.741	996.863	29.741	101.717
20-CGARB-2	66654.6	1.13693	13.3884	1.14159	1.89021	1.63569	0.18311	1.17129	0.71609	1083.92	11.686	1077.66	10.8624	1065.02	22.9617	1065.02	22.9617	101.775
20-CGARB-2	8674742	2.10397	5.43677	0.88747	13.3565	1.53241	0.52788	1.24926	0.81523	2732.52	27.8242	2705.19	14.477	2684.82	14.673	2684.82	14.673	101.777
20-CGARB-2	105022	2.43805	12.969	0.98643	2.09311	1.58633	0.19598	1.24213	0.78303	1153.69	13.1213	1146.55	10.9002	1133.04	19.6236	1133.04	19.6236	101.823
20-CGARB-2	31809.6	3.3821	13.5768	0.89942	1.79004	1.59606	0.17652	1.31848	0.82609	1047.93	12.7522	1041.84	10.3979	1029.07	18.2054	1029.07	18.2054	101.833
20-CGARB-2	750362	2.55307	12.8449	0.8957	2.12817	1.43468	0.19814	1.12072	0.78117	1165.3	11.9475	1157.99	9.91093	1144.33	17.783	1144.33	17.783	101.833
20-CGARB-2	138567	4.39044	9.29825	0.85262	4.73367	1.30263	0.31976	0.9848	0.75601	1788.58	15.3816	1773.22	10.9202	1755.17	15.5987	1755.17	15.5987	101.904
20-CGARB-2	193046	2.59265	13.6182	1.02655	1.7907	1.55674	0.17661	1.17021	0.7517	1048.42	11.323	1042.08	10.1431	1028.78	20.7784	1028.78	20.7784	101.909
20-CGARB-2	161866	3.5331	11.48	1.00082	2.87413	1.56427	0.23974	1.20211	0.76848	1385.37	14.9858	1375.15	11.784	1359.31	19.291	1359.31	19.291	101.917
20-CGARB-2	4269544	2.02483	11.2913	0.76592	3.04696	1.29097	0.24844	1.03922	0.80499	1430.44	13.3316	1419.47	9.86957	1403.03	14.6726	1403.03	14.6726	101.954
20-CGARB-2	237725	2.70798	11.1844	0.97217	3.09121	1.669	0.25063	1.35662	0.81283	1441.73	17.526	1430.51	12.8052	1413.85	18.5968	1413.85	18.5968	101.971
20-CGARB-2	285543	1.59411	5.89212	0.82681	11.7529	1.63939	0.49999	1.41562	0.8635	2613.76	30.4187	2584.92	15.342	2562.37	13.8316	2562.37	13.8316	102.005
20-CGARB-2	523853	5.14224	9.18249	0.85159	4.93628	1.35815	0.32739	1.058	0.779	1825.7	16.8215	1808.48	11.4678	1788.68	15.5148	1788.68	15.5148	102.069
20-CGARB-2	7746.06	2.50356	13.7981	1.69182	1.60517	1.94413	0.1639	0.95149	0.48942	978.414	8.63749	972.225	12.1635	958.284	34.6515	958.284	34.6515	102.101
20-CGARB-2	455784	2.0669	10.0062	0.92814	4.07458	1.75651	0.2946	1.49127	0.849	1664.46	21.8761	1649.23	14.3216	1629.86	17.2517	1629.86	17.2517	102.123
20-CGARB-2	104463	1.05321	5.34921	0.85963	13.8189	1.40472	0.53697	1.11098	0.79089	2770.73	25.0212	2737.38	13.3016	2712.85	14.1787	2712.85	14.1787	102.134
20-CGARB-2	525963	2.22988	9.96433	0.88737	4.07073	1.55659	0.29448	1.27888	0.82159	1663.89	18.7548	1648.46	12.689	1628.82	16.496	1628.82	16.496	102.153
20-CGARB-2	350459	80.1294	13.8553	0.69203	1.66835	1.45167	0.1684	1.2761	0.87905	1003.26	11.8561	996.559	9.21628	981.841	14.0743	981.841	14.0743	102.182
20-CGARB-2	153858	1.84477	11.722	0.98835	2.75833	1.70618	0.23404	1.39068	0.81509	1355.64	17.0023	1344.34	12.7153	1326.39	19.1383	1326.39	19.1383	102.205
20-CGARB-2	69266.8	1.37074	11.7839	0.91217	2.72857	1.41646	0.23252	1.08347	0.76491	1347.71	13.1767	1336.27	10.5255	1317.97	17.6867	1317.97	17.6867	102.256
20-CGARB-2	262085	3.18984	13.6788	0.94945	1.78927	1.52238	0.17673	1.19	0.78167	1049.08	11.5212	1041.56	9.91637	1025.79	19.2261	1025.79	19.2261	102.271
20-CGARB-2	696918	2.11848	8.5254	0.96592	5.7999	1.67157	0.35695	1.36423	0.81614	1967.69	23.134	1946.4	14.4778	1923.8	17.3129	1923.8	17.3129	102.282
20-CGARB-2	1E+07	2.48943	13.2399	1.02981	1.98693	1.70577	0.18973	1.35983	0.79719	1119.94	13.9798	1111.08	11.5219	1093.8	20.6203	1093.8	20.6203	102.39
20-CGARB-2	236522	3.51176	11.4778	0.93557	2.92805	1.56736	0.24297	1.25748	0.80229	1402.14	15.846	1389.19	11.8637	1369.33	18.0074	1369.33	18.0074	102.396
20-CGARB-2	128446	3.34589	13.6538	1.01613	1.78302	1.60789	0.1764	1.24607	0.77497	1047.29	12.045	1039.28	10.4603	1022.47	20.5862	1022.47	20.5862	102.427
20-CGARB-2	157946	1.58772	10.9567	0.91428	3.29094	1.56496	0.26071	1.27002	0.81153	1493.49	16.9307	1478.91	12.1877	1458.04	17.3875	1458.04	17.3875	102.432
20-CGARB-2	110662	1.78796	10.0379	1.01949	4.05254	1.92441	0.29414	1.63216	0.84814	1662.17	23.9141	1644.81	15.674	1622.67	18.9677	1622.67	18.9677	102.434
20-CGARB-2	326024	3.93995	13.519	0.93978	1.82516	1.71583	0.17925	1.43558	0.83667	1062.85	14.0666	1054.54	11.2559	1037.36	18.9964	1037.36	18.9964	102.457
20-CGARB-2	53623.9	0.8988	8.59528	1.0954	5.70193	1.70332	0.35423	1.30425	0.76572	1954.78	21.9927	1931.66	14.7156	1906.93	19.6759	1906.93	19.6759	102.51
20-CGARB-2	93806.4	3.15865	13.7496	0.81064	1.75165	1.28243	0.17435	0.99358	0.77476	1036.05	9.5094	1027.77	8.28949	1010.17	16.4221	1010.17	16.4221	102.562
20-CGARB-2	169378	1.74084	8.28428	0.88908	6.09659	1.4166	0.36701	1.10279	0.77848	2015.3	19.0861	1989.76	12.3576	1963.31	15.8627	1963.31	15.8627	102.648
20-CGARB-2	57464.4	1.5605	18.1382	1.19052	0.51773	1.63197	0.06821	1.11613	0.68392	425.381	4.59457	423.635	5.65271	414.123	26.612	425.381	4.59457	102.719
20-CGARB-2	66553.7	1.58164	12.7382	1.25739	2.19817	1.84322	0.20304	1.34601	0.73025	1191.65	14.6445	1180.46	12.8644	1160	24.9699	1160	24.9699	102.728
20-CGARB-2	415750	2.68789	13.0485	0.92997	2.07079	1.51916	0.19526	1.20125	0.79073	1149.8	12.6502	1139.2	10.4025	1119.08	18.5517	1119.08	18.5517	102.745
20-CGARB-2	32835	1.5158	11.0351	0.94133	3.22166	1.90354	0.25781	1.65328	0.86853	1478.62	21.8448	1462.38	14.7509	1438.86	17.9864	1438.86	17.9864	102.764
20-CGARB-2	325494	2.66903	11.0353	0.92994	3.20854	1.50249	0.25718	1.18011	0.78544	1475.41	15.5627	1459.22	11.6315	1435.72	17.7362	1435.72	17.7362	102.765
20-CGARB-2	58619.2	1.81746	10.7361	1.01504	3.45061	1.52058	0.26855	1.13181	0.74433	1533.43	15.4457	1516.01	11.9711	1491.75	19.2218	1491.75	19.2218	102.794
20-CGARB-2	189587	1.52636	7.67534	1.06629	7.21607	1.6296	0.39996	1.2323	0.7562	2168.83	22.6952	2138.49	14.5337	2109.45	18.7074	2109.45	18.7074	102.815
20-CGARB-2	91760.2	7.32522	12.1543	0.91339	2.52751	1.6119	0.22223	1.32756	0.8236	1293.62	15.5602	1279.98	11.7277	1257.15	17.8615	1257.15	17.8615	102.901
20-CGARB-2	35854.3	2.80699	13.7177	1.06159	1.74739	1.69348	0.1743	1.31604	0.77712	1035.73	12.5921	1026.2	10.9369	1005.9	21.6252	1005.9	21.6252	102.966
20-CGARB-2	137720	1.73914	8.6789	0.68745	5.56203	1.329	0.35076	1.13727	0.85574	1938.23	19.0378	1910.24	11.4385	1879.97	12.3888	1879.97	12.3888	103.099
20-CGARB-2	203314	1.5015	10.9234	0.78742	3.34037	1.43652	0.26388	1.20145	0.83636	1509.66	16.1706	1490.54	11.226	1463.42	14.9625	1463.42	14.9625	103.16
20-CGARB-2	22082	1.59368	18.2943	1.19295	0.46619	1.89451	0.06241	1.42109	0.75011	390.281	5.3817	388.554	6.11653	378.262	28.1602	390.281	5.3817	103.178
20-CGARB-2	51001.9	1.84066	11.7681	1.1168	2.75024	1.64126	0.23457	1.20262	0.73274	1358.39	14.7299	1342.15	12.2219	1316.34	21.6554	1316.34	21.6554	103.195
20-CGARB-2	11057.9	1.19904	13.7818	1.80974	1.63792	2.55184	0.16682	1.55446	0.60915	994.587	14.3269	984.912	16.0898	963.431	41.3145	963.431	41.3145	103.234
20-CGARB-2	94117.5	2.79069	11.1032	0.84016	3.16806	1.33765	0.25576	1.04084	0.77811	1468.09	13.6654	1449.41	10.324	1422.1	16.0544	1422.1	16.0544	103.234
20-CGARB-2	141810	1.60639	13.3759	1.43159	1.92228	1.82843	0.18616	1.13741	0.62207	1100.54	11.5074	1088.86	12.2131	1065.59	28.7883	1065.59	28.7883	103.28
20-CGARB-2	612372	1.24177	13.43	1.0039	1.91342	1.74683	0.1856	1.42955	0.81837	1097.51	14.4265	1085.78	11.6495	1062.34	20.2166	1062.34	20.2166	103.31
20-CGARB-2	297874	2.04792	10.7523	0.97774	3.4427	1.71332	0.26882	1.40694	0.82118	1534.78	19.2155	1514.2	13.4817	1485.52	18.5232	1485.52	18.5232	103.316
20-CGARB-2	28452.1	1.54694	5.3393	0.85356	14.1738	1.78661	0.54727	1.56906	0.87823	2813.82	35.7767	2761.4	16.947	2723.3	14.0753	2723.3	14.0753	103.324
20-CGARB-2	206719	9.60776	13.9569	0.86917	1.65866	1.50214	0.16834	1.22513	0.81559	1002.98	11.3795	992.864	9.51586	970.57	17.7519	970.57	17.7519	103.339
20-CGARB-2	65656.4	2.58763	12.0057	0.86955	2.56259	1.48651	0.22458	1.20439	0.81021	1306.01	14.2385	1290.03	10.8575	1263.51	17.0209	1263.51	17.0209	103.363
20-CGARB-2	14472.1	2.40952	11.7957	1.2471	2.64515	1.96988	0.22911	1.52416	0.77373	1329.84	18.3149	1313.29	14.5156	1286.37	24.2821	1286.37	24.2821	103.379
20-CGARB-2	73706	1.72459	8.73958	0.98586	5.47496	1.41686	0.34838	1.01757	0.71819	1926.84	16.9481	1896.68	12.1653	1863.81	17.7987	1863.81	17.7987	103.382
20-CGARB-2	409344	2.00802	12.5504	0.67967	2.32629	1.98768	0.2112	1.86786	0.93972	1235.19	20.996	1220.35	14.1159	1194.22	13.4096	1194.22	13.4096	103.431
20-CGARB-2	151029	3.12662	13.7332	1.13229	1.78076	1.74504	0.17684	1.32763	0.7608	1049.7	12.8607	1038.46	11.3474	1014.84	22.9487	1014.84	22.9487	103.435
20-CGARB-2	129818	1.04433	5.69582	0.87144	12.7194	1.43022	0.52286	1.13408	0.79294	2711.29	25.1008	2659.09	13.4645	2619.62	14.5006	2619.62	14.5006	103.499
20-CGARB-2	48623.7	3.05918	7.50999	1.00915	7.56341	1.74802	0.4111	1.42729	0.81652	2219.96	26.8055	2180.53	15.6777	2143.63	17.6373	2143.63	17.6373	103.561
20-CGARB-2	1177153	0.84278	13.3593	0.84345	1.92	1.56151	0.18622	1.31412	0.84157	1100.86	13.2988	1088.07	10.4258	1062.57	16.9685	1062.57	16.9685	103.603
20-CGARB-2	68779.6	1.9561	18.1082	0.98629	0.53435	1.79609	0.07016	1.49851	0.83432	437.115	6.33309	434.689	6.35132	421.836	22.1016	437.115	6.33309	103.622
20-CGARB-2	70290	1.96204	10.8175	1.0779	3.4139	1.75498	0.26786	1.38494	0.78915	1529.91	18.8618	1507.6	13.7834	1476.37	20.4458	1476.37	20.4458	103.626

20-CGARB-2	330638	2.12865	9.47662	0.77122	4.62155	1.63287	0.31851	1.43926	0.88143	1782.47	22.4131	1753.17	13.6314	1718.4	14.1758	1718.4	14.1758	103.729
20-CGARB-2	77702.2	0.89506	18.1167	1.07477	0.52953	1.48307	0.06965	1.01899	0.68708	434.053	4.27733	431.497	5.21347	417.853	24.0693	434.053	4.27733	103.877
20-CGARB-2	43515.5	0.87244	13.5898	0.94924	1.82497	1.51691	0.18015	1.17297	0.77326	1067.82	11.5428	1054.47	9.9505	1026.92	19.4728	1026.92	19.4728	103.983
20-CGARB-2	113015	1.08693	17.9162	0.84964	0.58265	1.4613	0.0755	1.18877	0.8135	469.224	5.37983	466.16	5.46253	451.077	18.8939	469.224	5.37983	104.023
20-CGARB-2	60491.2	1.53158	10.8205	1.03412	3.41677	1.59995	0.26857	1.22082	0.76303	1533.53	16.6614	1508.26	12.5681	1472.93	19.6248	1472.93	19.6248	104.114
20-CGARB-2	86527.8	2.90016	9.17043	1.00416	5.0046	1.52201	0.33341	1.14335	0.75121	1854.87	18.4293	1820.1	12.8812	1780.52	18.3218	1780.52	18.3218	104.176
20-CGARB-2	24167.3	3.07544	12.0327	0.93282	2.59861	1.4946	0.22733	1.16761	0.78122	1320.51	13.9418	1300.25	10.9591	1266.93	18.2125	1266.93	18.2125	104.229
20-CGARB-2	15141.2	1.62755	13.461	1.30405	1.83025	1.87193	0.18069	1.2513	0.66846	1070.75	12.3447	1056.37	12.2921	1026.75	28.181	1026.75	28.181	104.285
20-CGARB-2	83432.2	5.38059	13.2926	1.00368	1.9715	1.62184	0.19005	1.27377	0.78538	1121.65	13.1133	1105.82	10.9264	1074.83	20.148	1074.83	20.148	104.356
20-CGARB-2	37876.8	0.38962	12.9103	0.93966	2.11784	1.36658	0.19938	0.99202	0.72592	1171.98	10.6307	1154.63	9.42574	1122.23	18.7498	1122.23	18.7498	104.433
20-CGARB-2	1414025	2.06467	11.3343	0.96498	3.11536	1.64541	0.25468	1.33273	0.80997	1462.58	17.4392	1436.49	12.6481	1398.04	18.4987	1398.04	18.4987	104.616
20-CGARB-2	20693.1	1.72729	13.6993	1.12344	1.77491	1.77067	0.17717	1.3568	0.76627	1051.49	13.1639	1036.32	11.5004	1004.43	23.0701	1004.43	23.0701	104.686
20-CGARB-2	24644.2	1.61584	11.3308	0.93539	3.07094	1.59111	0.25257	1.2871	0.80893	1451.71	16.7304	1425.47	12.1878	1386.49	17.9602	1386.49	17.9602	104.704
20-CGARB-2	240715	2.38556	10.7329	0.96289	3.50953	1.7812	0.27357	1.49848	0.84127	1558.9	20.7498	1529.36	14.0763	1488.73	18.2347	1488.73	18.2347	104.713
20-CGARB-2	232586	3.5665	13.8507	1.28557	1.76863	1.74978	0.1768	1.18702	0.67838	1049.45	11.496	1034.02	11.3502	1001.52	26.0837	1001.52	26.0837	104.786
20-CGARB-2	2064288	1.92845	10.1179	1.04981	4.0954	1.61742	0.29923	1.23043	0.76074	1687.51	18.2684	1653.39	13.2007	1610.28	19.5628	1610.28	19.5628	104.796
20-CGARB-2	205640	4.07663	8.41984	0.83918	6.05812	1.57675	0.37011	1.33488	0.8466	2029.92	23.2455	1984.24	13.7426	1936.96	15.0176	1936.96	15.0176	104.799
20-CGARB-2	61236	2.62548	18.1173	1.07859	0.52114	1.55512	0.06893	1.12019	0.72032	429.707	4.65659	425.913	5.40983	405.413	24.1466	429.707	4.65659	105.993
20-CGARB-2	7652.83	0.28891	16.3509	1.31234	0.82972	2.01822	0.10126	1.53187	0.75902	621.818	9.08048	613.455	9.29301	582.681	28.5329	621.818	9.08048	106.717
20-CGARB-2	23767.8	3.00805	18.3556	1.13455	0.48895	1.76142	0.06548	1.34423	0.76315	408.852	5.32525	404.198	5.87334	377.664	25.605	408.852	5.32525	108.258
20-CGARB-2	7704.51	1.09644	16.7412	1.84531	0.74642	2.25609	0.09394	1.2861	0.57005	578.821	7.11977	566.146	9.79119	515.526	40.6946	578.821	7.11977	112.278

GBR-HW39-22

Sample	U (ppm)	206Pb 204Pb	U/Th	206Pb* 207Pb*	Â± (%)	207Pb* 235U	Â± (%)	206Pb* 238U	Â± (%)	error corr.	206Pb* 238U	Â± (Ma)	207Pb* 235U	Â± (Ma)	206Pb* 207Pb*	Â± (Ma)	Best age (Ma)	Â± (Ma)	Conc (%)
GBR-HW39-22	1142.42	667.184	0.98231	6.83265	0.84687	0.70937	1.53683	0.04087	1.28147	0.83384	258.234	3.24378	544.373	6.47586	2041.16	14.9984	258.234	3.24378	12.6513
GBR-HW39-22	2139.19	1173.08	2.68891	6.82348	0.38794	1.83364	0.72986	0.0989	0.61788	0.84658	607.942	3.58468	1057.58	4.79555	2157.15	6.77992	2157.15	6.77992	28.1827
GBR-HW39-22	808.991	1758.54	9.29147	11.3761	1.51063	0.62018	2.09877	0.05678	1.45569	0.69359	356.024	5.0421	489.963	8.15756	1177.55	29.9215	356.024	5.0421	30.2344
GBR-HW39-22	263.917	1890.96	1.37474	11.4574	1.25022	0.63825	1.73154	0.05833	1.17212	0.67692	365.491	4.16482	501.222	6.84983	1180.96	25.2141	365.491	4.16482	30.9486
GBR-HW39-22	337.337	1510.38	2.30452	10.1319	6.64169	0.99707	8.49968	0.0813	1.07035	0.12593	503.875	5.18783	702.32	43.1147	1403.02	161.819	1403.02	161.819	35.9136
GBR-HW39-22	1048.39	1276.6	5.57217	8.58317	2.34937	1.47142	5.19621	0.10197	4.6247	0.89001	625.935	27.5868	918.711	31.4228	1708.28	43.6036	1708.28	43.6036	36.6412
GBR-HW39-22	1250.9	2133.18	1.49074	9.88859	2.2497	1.31149	5.47986	0.10122	4.99279	0.91112	621.557	29.5841	850.78	31.58	1507.52	42.6648	1507.52	42.6648	41.2306
GBR-HW39-22	469.734	5641.7	4.65509	14.2359	3.37864	0.57042	4.08989	0.06148	1.33059	0.32534	384.636	4.96825	458.287	15.0853	846.722	80.4678	384.636	4.96825	45.4265
GBR-HW39-22	34.268	3362.56	1.17588	11.2039	2.55033	1.25674	6.44941	0.10768	5.86404	0.90924	659.241	36.7476	826.441	36.4839	1307.49	52.1105	1307.49	52.1105	50.4202
GBR-HW39-22	52.0071	7535.08	1.47827	15.3849	2.7412	0.48863	3.1472	0.05684	0.77226	0.24538	356.383	2.67753	403.976	10.4897	686.074	65.1339	356.383	2.67753	51.9453
GBR-HW39-22	305.803	4225	1.86803	12.6681	1.62324	1.07445	2.05041	0.10367	1.25115	0.6102	635.9	7.57627	740.919	10.7837	1072.94	32.6308	635.9	7.57627	59.2671
GBR-HW39-22	608.914	15901.1	1.62007	16.1154	0.87059	0.62229	1.56333	0.07453	1.29271	0.8269	463.418	5.78039	491.283	6.08907	623.369	18.9803	463.418	5.78039	74.3408
GBR-HW39-22	292.188	7505.96	1.23469	6.05426	0.46789	8.07233	1.00887	0.36062	0.89354	0.88568	1985.1	15.2666	2239.15	9.11498	2480.26	7.90145	2480.26	7.90145	80.0361
GBR-HW39-22	179.53	38275.1	2.2303	15.801	1.25102	0.78052	1.80529	0.09054	1.3012	0.72078	558.754	6.96435	585.783	8.03569	691.958	26.6689	558.754	6.96435	80.7497
GBR-HW39-22	37.9247	3634.07	1.04477	11.3283	3.98337	2.04871	4.28359	0.17709	1.12884	0.26353	1051.07	10.9481	1131.87	29.2363	1290.3	80.448	1290.3	80.448	81.4592
GBR-HW39-22	67.9911	11187	1.89002	11.0969	1.01193	2.34519	1.19517	0.19284	0.6168	0.51608	1136.74	6.42801	1226.1	8.50799	1386.88	19.6545	1386.88	19.6545	81.964
GBR-HW39-22	580.792	35982.1	2.41319	12.4113	0.64522	1.80229	1.25738	0.16386	1.07695	0.8565	978.212	9.77452	1046.29	8.21141	1191.3	12.8099	1191.3	12.8099	82.1129
GBR-HW39-22	49.3531	9783.44	1.69775	12.8431	0.95884	1.56598	1.48226	0.14967	0.94161	0.63526	899.113	7.90227	956.837	9.18541	1092.03	22.9277	1092.03	22.9277	82.3339
GBR-HW39-22	379.114	10320.7	2.4847	11.5687	0.62214	2.13585	1.1363	0.18257	0.95081	0.83676	1081	9.46271	1160.48	7.85866	1312.03	12.0713	1312.03	12.0713	82.3914
GBR-HW39-22	541.216	9086.86	6.8778	12.4842	0.46413	1.70994	0.71836	0.15888	0.54724	0.7618	950.574	4.8366	1012.26	4.60251	1148.27	9.24336	1148.27	9.24336	82.7832
GBR-HW39-22	252.259	8892.76	3.03437	16.8089	1.09392	0.53932	1.49309	0.06801	1.01188	0.67771	424.18	4.154	437.977	5.31175	511.164	24.1313	424.18	4.154	82.983
GBR-HW39-22	352.055	8419.55	2.09357	10.5436	0.75084	2.70851	1.12802	0.21165	0.69135	0.61289	1237.62	7.78505	1330.79	8.36543	1484.04	16.8894	1484.04	16.8894	83.3951
GBR-HW39-22	845.292	8157.64	2.85637	8.70292	0.73766	4.19337	1.16906	0.27033	0.85164	0.72849	1542.49	11.6831	1672.73	9.58499	1840.22	14.4988	1840.22	14.4988	83.8212
GBR-HW39-22	274.453	8604.16	2.6765	11.5757	2.64658	2.13459	5.23395	0.18398	4.44393	0.84906	1088.69	44.5165	1160.07	36.2057	1295.94	53.7769	1295.94	53.7769	84.0075
GBR-HW39-22	514.573	13128.1	9.07256	4.58614	0.48261	14.3144	1.29003	0.48259	1.18118	0.91562	2538.53	24.7851	2770.77	12.244	2944.55	8.37862	2944.55	8.37862	86.2109
GBR-HW39-22	640.098	5965.8	3.04296	11.4913	1.88173	2.20629	2.53369	0.19012	0.97143	0.38341	1122.01	10.0038	1183.04	17.7046	1296.38	45.5063	1296.38	45.5063	86.5496
GBR-HW39-22	219.035	24617.5	1.1436	9.64325	0.41013	3.57646	0.7703	0.25303	0.64723	0.84024	1454.06	8.42522	1544.32	6.11247	1670.14	7.72239	1670.14	7.72239	87.0623
GBR-HW39-22	175.823	10859	3.24124	12.6369	0.73338	1.76251	1.58845	0.16524	1.40883	0.88692	985.855	12.8791	1031.77	10.2907	1130.44	14.5947	1130.44	14.5947	87.21
GBR-HW39-22	107.543	175807	1.31137	17.4389	0.81716	0.53382	1.10869	0.06812	0.7493	0.67584	424.829	3.08062	434.339	3.91798	485.106	18.0482	424.829	3.08062	87.5744
GBR-HW39-22	341.039	14980.6	4.11002	16.9239	0.7553	0.59315	1.14167	0.0744	0.85242	0.74664	462.604	3.80515	472.875	4.316	523.006	16.6648	462.604	3.80515	88.451
GBR-HW39-22	163.236	9552.26	4.1071	12.4172	1.17536	1.86505	1.46645	0.17273	0.71932	0.49052	1027.15	6.82991	1068.78	9.6932	1154.71	25.3651	1154.71	25.3651	88.9536
GBR-HW39-22	428.331	18190.5	3.15755	12.9054	0.82778	1.74888	1.15686	0.16581	0.8062	0.69688	988.993	7.39172	1026.75	7.47349	1108.08	16.5606	1108.08	16.5606	89.2525
GBR-HW39-22	48.1134	39443.2	1.33051	10.5504	0.93646	3.03	1.69629	0.23323	1.41375	0.83343	1351.39	17.2356	1415.21	12.9506	1512.6	17.6933	1512.6	17.6933	89.3424
GBR-HW39-22	72.1215	3466.42	1.46865	8.78265	2.72757	4.26737	3.31204	0.28277	0.5842	0.17639	1605.3	8.30164	1687.09	27.2519	1790.31	59.3995	1790.31	59.3995	89.666
GBR-HW39-22	321.349	285746	4.97439	12.3389	1.62421	2.05099	2.08357	0.18441	1.30507	0.62636	1091	13.0986	1132.63	14.2229	1213.33	31.941	1213.33	31.941	89.918
GBR-HW39-22	564.557	22778.6	1.8822	5.24865	0.55451	12.1027	0.98377	0.46685	0.81259	0.826	2469.73	16.6718	2612.4	9.22688	2724.91	9.13561	2724.91	9.13561	90.6352
GBR-HW39-22	604.613	2.4E+07	4.1179	12.4156	0.4441	2.03824	1.06575	0.18448	0.96881	0.90904	1091.4	9.72694	1128.37	7.2598	1200.22	8.75648	1200.22	8.75648	90.9329
GBR-HW39-22	12.1021	12651.2	13.793	14.0481	1.87271	1.32167	2.02226	0.13796	0.73559	0.36375	833.1	5.74873	855.243	11.6898	913.127	38.7777	833.1	5.74873	91.2359
GBR-HW39-22	354.547	69419.9	1.54192	18.4901	0.65736	0.38805	1.25678	0.0524	1.07107	0.85223	329.227	3.43772	332.941	3.56757	358.953	14.8173	329.227	3.43772	91.7186
GBR-HW39-22	51.7844	6388.07	2.23908	12.3962	1.88904	1.89085	2.16911	0.17656	0.58582	0.27007	1048.16	5.66707	1077.88	14.407	1138.49	41.5651	1138.49	41.5651	92.0651
GBR-HW39-22	258.198	4980.42	1.53874	11.348	2.48306	2.38679	2.67543	0.20486	0.78253	0.29249	1201.39	8.57723	1238.65	19.147	1304.03	49.6803	1304.03	49.6803	92.129
GBR-HW39-22	220.217	37315.3	3.81052	9.96278	0.42626	3.59076	2.38472	0.26101	2.3453	0.98347	1495	31.2938	1547.49	18.9417	1619.91	8.03547	1619.91	8.03547	92.2894
GBR-HW39-22	326.96	1760.34	2.85232	4.983	3.43339	12.8914	4.1882	0.48624	1.62715	0.38851	2554.39	34.3172	2671.75	39.4849	2761.81	63.3837	2761.81	63.3837	92.4898
GBR-HW39-22	410.009	22314	3.73152	12.673	0.44458	1.89075	0.91799	0.17704	0.80173	0.87335	1050.76	7.77353	1077.85	6.09673	1133.01	8.89148	1133.01	8.89148	92.741
GBR-HW39-22	132.393	35875.8	2.73228	12.8273	0.60262	1.86789	1.22428	0.17575	1.06162	0.86714	1043.71	10.2298	1069.78	8.09668	1123.34	12.1743	1123.34	12.1743	92.9107
GBR-HW39-22	408.966	39028	9.70678	10.9739	0.592	2.86733	1.28117	0.23028	1.13615	0.88681	1335.96	13.7089	1373.37	9.64529	1432.01	11.2978	1432.01	11.2978	93.2926
GBR-HW39-22	190.624	95250.6	4.59894	11.9398	0.45007	2.31545	0.83707	0.20209	0.70575	0.84312	1186.55	7.64858	1217.03	5.93595	1271.5	8.78336	1271.5	8.78336	93.3189
GBR-HW39-22	171.094	15269	1.84124	9.39136	1.31667	4.10668	1.53262	0.28287	0.7317	0.47742	1605.8	10.4005	1655.63	12.5152	1719.44	24.7469	1719.44	24.7469	93.3907
GBR-HW39-22	165.014	16808.5	2.62779	12.0819	0.43147	2.18268	0.78282	0.19494	0.65066	0.83118	1148.07	6.84262	1175.53	5.45119	1226.44	8.54908	1226.44	8.54908	93.6093
GBR-HW39-22	406.999	131505	5.30097	11.4714	0.37213	2.58946	0.92952	0.21694	0.85176	0.91635	1265.69	9.78838	1297.66	6.80885	1350.91	7.18013	1350.91	7.18013	93.6921
GBR-HW39-22	181.664	13975.7	1.81731	17.5135	1.05211	0.50803	1.36165	0.06615	0.66662	0.48957	412.906	2.66623	417.125	4.65777	440.503	26.4306	412.906	2.66623	93.7352
GBR-HW39-22	335.328	66778.1	6.93594	12.9395	0.66291	1.84286	1.20293	0.17496	1.00304	0.83383	1039.38	9.6283	1060.88	7.91802	1105.41	13.274	1105.41	13.274	94.0269
GBR-HW39-22	436.454	45574.3	5.04175	13.352	0.67118	1.68933	1.03687	0.16515	0.78902	0.76097	985.332	7.20948	1004.51	6.61348	1046.61	13.5846	1046.61	13.5846	94.1447
GBR-HW39-22	42.3027	20577.5	3.04107	5.39987	0.65072	12.0991	1.4134	0.47985	1.25225	0.88599	2526.61	26.1759	2612.12	13.2566	2679.08	10.8409	2679.08	10.8409	94.309
GBR-HW39-22	131.67	24982.4	2.67903	11.6235	0.83826	2.49261	1.1832	0.21276	0.83389	0.70477	1243.53	9.43078	1269.89	8.5744	1314.78	16.2791	1314.78	16.2791	94.5804
GBR-HW39-22	245.803	45845.9	2.4987	10.6575	0.4681	3.1141	0.79093	0.2434	0.63531	0.80324	1404.37	8.01715	1436.18	6.079	1483.6	8.9274	1483.6	8.9274	94.6591
GBR-HW39-22	291.359	56718.3	5.26702	8.69234	0.45801	4.96864	1.16637	0.31604	1.07264	0.91964	1770.35	16.6052	1814	9.85923	1864.5	8.27033	1864.5	8.27033	94.9508
GBR-HW39-22	380.55	15806.7	4.56644	9.00239	0.59442	4.60622	1.02208	0.30378	0.83021	0.81228	1710.02	12.4698	1750.4	8.52702	1798.94	10.8484	1798.94	10.8484	95.0569
GBR-HW39-22	99.0289	36803.3	8.32559	13.1555	0.6605	1.78865	1.00708	0.17236	0.75823	0.7529	1025.08	7.18596	1041.33	6.5589	1075.62	13.2896	1075.62	13.2896	95.3011
GBR-HW39-22	614.441	1132506	4.81674	13.3927	0.30322	1.70748	0.69064	0.16708	0.62052	0.89847	995.985	5.72651	1011.34	4.42258	1044.76	6.13532	1044.76	6.13532	95.3311
GBR-HW39-22	52.4668	58228.6	1.9263	16.8111	1.12456	0.70426	1.36865	0.08679	0.78007	0.56996	536.542	4.01596	541.33	5.74277	561.523	24.5139	536.542	4.01596	95.5511
GBR-HW39-22	499.453	96735.6	3.30344	9.14988	0.35897	4.48069	0.85564	0.30019	0.77664	0.90767	1692.24	11.5591	1727.4	7.10295	1770.25	6.55798	1770.25	6.55798	95.5933
GBR-HW39-22	95.9987	14132.5	4.05286	11.7671	0.5065	2.3943	0.83057	0.20845	0.65407	0.7875	1220.57	7.27315	1240.9	5.94893	1276.34	9.97982	1276.34	9.97982	95.6308
GBR-HW39-22	153.624	22369.3	2.77219	11.7328	0.48015	2.45942	0.82488	0.21199	0.64087	0.77693	1239.41	7.22609	1260.19	5.95464	1295.84	10.0984	1295.84	10.0984	95.645
GBR-HW39-22	429.419	116370	3.29571	11.5857	0.45768	2.58552	1.31927	0.21867	1.23731	0.93788	1274.84	14.312	1296.55	9.65991	1332.65	8.85614	1332.65	8.85614	95.6623
GBR-HW39-22	59.7084	191502	0.95206	5.16188	0.46636	13.4812	0.81065	0.50775	0.66306	0.81794	2647	14.3944	2713.97	7.66291	2764.19	7.65558	2764.19	7.65558	95.7606
GBR-HW39-22	16.6939	4582.63	1.4641	8.79634	0.81816	4.66282	1.50767	0.30704	0.90488	0.60019	1726.13	13.7031	1760.59	12.6059	1801.72	21.9344	1801.72	21.9344	95.8047
GBR-HW39-22	38.0008	25276.9	2.00405	13.3374	1.1182	1.69162	1.34491	0.16639	0.72771	0.54109	992.192	6.69211	1005.38	8.58268	1034.21	22.8707	1034.21	22.8707	95.9375
GBR-HW39-22	133.916	54468.9	3.2182	5.66325	0.46925	11.5271	0.97305	0.47564	0.85235	0.87595	2508.24	17.7106	2566.78	9.09172	2613.33	7.81532	2613.33	7.81532	95.9785
GBR-HW39-22	251.884	47084	2.64442	9.69368	0.35876	3.9994	0.69596	0.28291	0.59414	0.85369	1606	8.44614	1634.07	5.65325	1670.38	6.70248	1670.38	6.70248	96.1453
GBR-HW39-22	453.504	34222.2	4.49977	11.8215	0.44487	2.40328	0.96219	0.2095	0.85182	0.8853	1226.13	9.51127	1243.58	6.89925	1273.91	8.71056	1273.91	8.71056	96.2494
GBR-HW39-22	131.748	8601.81	1.51689	8.71922	1.16597	4.88736	1.47751	0.31561	0.61186	0.41411	1768.28	9.46228	1800.08	12.4548	1837.1	24.3566	1837.1	24.3566	96.2535
GBR-HW39-22	198.193	750275	3.14294	13.2729	0.47995	1.79204	0.87927	0.17331	0.73673	0.83788	1030.34	7.01524	1042.57	5.73038	1068.29	9.62862	1068.29	9.62862	96.4474
GBR-HW39-22	264.587	35157	3.24056	12.0252	0.65226	2.34876	1.22155	0.20669	1.02832	0.84182	1211.14	11.3544	1227.18	8.69971	1255.51	12.9135	1255.51	12.9135	96.4658
GBR-HW39-22	42.2437	16064.4	1.27983	13.2452	0.70833	1.72996	1.2459	0.16934	1.01217	0.81241	1008.45	9.44891	1019.74	8.01681	1044.07	14.6747	1044.07	14.6747	96.5876
GBR-HW39-22	420.194	22171	1.11099	13.471	0.49843	1.66817	1.46984	0.16535	1.38257	0.94063	986.429	12.6459	996.491	9.33125	1018.68	10.1028	1018.68	10.1028	96.8338
GBR-HW39-22	222.396	123945	2.5418	11.5988	0.4017	2.60194	0.73959	0.22067	0.62096	0.83959	1285.43	7.23648	1301.18	5.42482	1327.25	7.77739	1327.25	7.77739	96.8488
GBR-HW39-22	153.233	736289	2.04101	11.1354	0.49231	2.92649	0.94347	0.23705	0.80484	0.85306	1371.33	9.94212	1388.79	7.14019	1415.69	9.41485	1415.69	9.41485	96.8668
GBR-HW39-22	45.3279	12029.8	0.7836	8.062	0.51622	5.86145	0.84502	0.34839	0.66723	0.7896	1926.93	11.1134	1955.55	7.32984	1985.96	9.2271	1985.96	9.2271	97.0273
GBR-HW39-22	293.921	86422.6	2.95578	9.76286	0.52867	3.96629	1.28626	0.283	1.17254	0.91159	1606.45	16.6727	1627.33	10.431	1654.41	9.7966	1654.41	9.7966	97.1008
GBR-HW39-22	243.157	64137.2	1.4427	9.22533	0.37391	4.47544	0.95415	0.3025	0.87768	0.91986	1703.71	13.1404	1726.43	7.919	1754.07	6.84838	1754.07	6.84838	97.1288
GBR-HW39-22	102.308	88079.3	3.55328	11.503	0.50186	2.63978	0.94355	0.22296	0.79883	0.84662	1297.48	9.38817	1311.8	6.94854	1335.26	9.71023	1335.26	9.71023	97.1704
GBR-HW39-22	283.302	52309.8	1.86257	18.595	0.86618	0.38073	1.37906	0.05194	1.07218	0.77747	326.429	3.41277	327.578	3.86123	335.767	19.6673	326.429	3.41277	97.219
GBR-HW39-22	190.714	55405.4	1.46578	9.71837	0.49819	4.03572	0.7013	0.28593	0.49237	0.70209	1621.17	7.05758	1641.42	5.70684	1667.44	9.23674	1667.44	9.23674	97.2249
GBR-HW39-22	344.019	178420	4.30112	10.55	0.39183	3.34503	0.86711	0.25701	0.77352	0.89207	1474.52	10.1953	1491.63	6.77826	1516.03	7.3916	1516.03	7.3916	97.2617
GBR-HW39-22	165.596	38513.1	2.33114	13.8368	0.4527	1.54086	0.78265	0.15685	0.63374	0.80974	939.257	5.53911	946.847	4.81927	964.552	9.37748	964.552	9.37748	97.3776
GBR-HW39-22	313.573	301731	5.07184	12.9869	0.54377	1.9302	0.92924	0.18277	0.75353	0.81091	1082.08	7.50618	1091.61	6.21539	1110.65	10.8419	1110.65	10.8419	97.428
GBR-HW39-22	115.313	719061	1.14423	5.1929	0.53318	13.6263	1.62842	0.51651	1.53866	0.94488	2684.37	33.7831	2724.09	15.4054	2753.67	8.76099	2753.67	8.76099	97.4836

GBR-HW39-22	469.403	207620	9.34704	3.67767	3.16343	24.2458	3.31318	0.64994	0.98481	0.29724	3227.97	25.0079	3278.33	32.3198	3309.26	49.6082	3309.26	49.6082	97.5436
GBR-HW39-22	114.888	155763	3.51291	12.7522	0.70136	2.01108	0.9829	0.18787	0.6886	0.70057	1109.84	7.02065	1119.25	6.66581	1137.55	13.9417	1137.55	13.9417	97.5643
GBR-HW39-22	298.404	22912.6	2.81459	15.0984	0.54773	1.12603	0.79997	0.12531	0.57222	0.7153	761.027	4.10751	765.861	4.30217	779.972	11.7513	761.027	4.10751	97.5711
GBR-HW39-22	528.43	35278.2	1.90084	16.9479	0.6167	0.6775	0.98166	0.08449	0.75784	0.772	522.87	3.8061	525.261	4.02568	535.681	13.6632	522.87	3.8061	97.6086
GBR-HW39-22	449.284	101992	1.10794	10.182	0.39133	3.58695	1.22813	0.26809	1.16405	0.94782	1531.12	15.8645	1546.65	9.75192	1567.92	7.33674	1567.92	7.33674	97.6531
GBR-HW39-22	77.6021	32962.5	2.11816	5.29645	0.40383	13.0902	0.75409	0.50845	0.63582	0.84316	2650.03	13.8157	2686.17	7.11359	2713.48	6.68675	2713.48	6.68675	97.6618
GBR-HW39-22	218.217	30323.5	2.03218	13.2822	0.43595	1.77622	0.73278	0.17306	0.58504	0.79838	1028.93	5.56378	1036.8	4.76048	1053.45	8.88828	1053.45	8.88828	97.673
GBR-HW39-22	273.864	255869	3.43067	9.1745	0.47559	4.59294	0.75122	0.30769	0.5815	0.77407	1729.33	8.82014	1747.99	6.26402	1770.36	8.68519	1770.36	8.68519	97.6828
GBR-HW39-22	348.433	159083	4.64035	9.03636	0.47973	4.74606	1.04548	0.31325	0.9289	0.8885	1756.68	14.2834	1775.41	8.76835	1797.5	8.73178	1797.5	8.73178	97.7293
GBR-HW39-22	552.725	64181.7	4.89754	8.95403	0.38654	4.86702	0.73884	0.31762	0.62961	0.85216	1778.07	9.78363	1796.56	6.22343	1818.08	7.01724	1818.08	7.01724	97.7994
GBR-HW39-22	391.46	117242	3.00524	9.15619	0.43986	4.60199	0.90473	0.30823	0.79058	0.87382	1732.01	12.0076	1749.63	7.54677	1770.73	8.03327	1770.73	8.03327	97.8135
GBR-HW39-22	279.991	19376.4	2.83066	11.6511	0.91402	2.5432	1.24015	0.21853	0.78316	0.6315	1274.12	9.05416	1284.49	9.03857	1301.86	18.6822	1301.86	18.6822	97.8693
GBR-HW39-22	242.492	55219.7	2.06025	8.96113	0.36588	4.80843	0.76047	0.31576	0.66577	0.87547	1769.01	10.2997	1786.37	6.39238	1806.7	6.68149	1806.7	6.68149	97.9138
GBR-HW39-22	86.7589	83324.6	0.91794	5.50449	0.46896	12.3781	1.09989	0.49755	0.99489	0.90453	2603.27	21.3083	2633.52	10.3337	2656.83	7.77645	2656.83	7.77645	97.9838
GBR-HW39-22	255.336	27668.7	2.70164	9.09078	0.56462	4.66488	0.93792	0.31081	0.74272	0.79188	1744.71	11.3528	1760.96	7.84248	1780.28	10.4451	1780.28	10.4451	98.002
GBR-HW39-22	252.018	168784	4.34317	13.2625	0.71582	1.80385	0.90984	0.17508	0.56161	0.61726	1040.03	5.39406	1046.85	5.94356	1061.14	14.3837	1061.14	14.3837	98.0104
GBR-HW39-22	91.6122	39828.5	5.04535	13.0244	0.68387	1.88681	1.00437	0.1805	0.73159	0.72841	1069.69	7.21092	1076.46	6.66563	1090.19	13.7813	1090.19	13.7813	98.1197
GBR-HW39-22	456.859	166676	9.64295	12.5528	0.34955	2.11938	0.82934	0.19488	0.75206	0.90682	1147.76	7.90708	1155.13	5.72149	1169.01	6.94145	1169.01	6.94145	98.1819
GBR-HW39-22	259.709	2388477	1.24303	8.56708	0.36584	5.35916	0.63643	0.33498	0.52077	0.81827	1862.46	8.42371	1878.35	5.44602	1895.96	6.57768	1895.96	6.57768	98.2332
GBR-HW39-22	450.796	113148	12.6231	12.5388	0.46229	2.14431	1.11453	0.19641	1.01404	0.90984	1156	10.7314	1163.22	7.71775	1176.7	9.16711	1176.7	9.16711	98.2413
GBR-HW39-22	348.822	9869.07	14.1895	17.6634	0.58561	0.49266	1.05275	0.06495	0.87295	0.82921	405.639	3.43192	406.721	3.52813	412.848	13.1546	405.639	3.43192	98.2536
GBR-HW39-22	130.871	36880.5	1.63036	9.26863	0.4683	4.47356	0.77244	0.30426	0.61392	0.79478	1712.38	9.23214	1726.08	6.41037	1742.72	8.58874	1742.72	8.58874	98.2588
GBR-HW39-22	262.897	45320.5	2.78384	9.34317	0.38951	4.39284	0.64338	0.30133	0.51111	0.79441	1697.9	7.62936	1710.99	5.32146	1727.04	7.1749	1727.04	7.1749	98.3126
GBR-HW39-22	39.2944	140422	1.01782	13.3981	0.71733	1.75291	1.02865	0.17194	0.73726	0.71672	1022.79	6.97286	1028.24	6.65079	1039.83	14.4985	1039.83	14.4985	98.3616
GBR-HW39-22	234.004	38312.5	2.05993	11.2936	0.4994	2.80193	0.8072	0.23246	0.63075	0.78141	1347.37	7.66914	1356.05	6.04042	1369.76	9.6947	1369.76	9.6947	98.3655
GBR-HW39-22	242.856	230060	2.73061	12.5213	0.46983	2.13905	0.75388	0.19621	0.58957	0.78205	1154.91	6.2339	1161.52	5.21624	1173.88	9.31593	1173.88	9.31593	98.384
GBR-HW39-22	180.804	56687.8	2.81615	10.3434	0.43504	3.5147	0.74993	0.26593	0.61042	0.81396	1520.11	8.26613	1530.53	5.92809	1544.94	8.18821	1544.94	8.18821	98.3928
GBR-HW39-22	310.016	210803	11.8886	13.349	0.4938	1.77528	0.99868	0.17345	0.86806	0.8692	1031.11	8.27149	1036.45	6.48669	1047.76	9.97518	1047.76	9.97518	98.4108
GBR-HW39-22	15.5683	7406.97	0.59766	5.27412	0.63983	13.1916	1.18556	0.51297	0.93955	0.79249	2669.3	20.5353	2693.46	11.1902	2711.62	11.9271	2711.62	11.9271	98.4394
GBR-HW39-22	84.6529	33157.3	1.87092	9.82656	0.48388	3.95638	0.84932	0.28456	0.6954	0.81878	1614.31	9.93069	1625.3	6.88398	1639.54	9.05263	1639.54	9.05263	98.461
GBR-HW39-22	55.2535	36443.5	2.60285	13.2966	0.81285	1.77111	1.00594	0.17324	0.58716	0.58369	1029.92	5.58889	1034.93	6.52831	1045.55	16.4933	1045.55	16.4933	98.5044
GBR-HW39-22	33.8642	11072	0.54449	5.1883	0.5158	13.6988	0.91634	0.52159	0.7551	0.82404	2705.93	16.6861	2729.11	8.67153	2746.29	8.53609	2746.29	8.53609	98.5303
GBR-HW39-22	276.582	94135.5	1.61748	9.7164	0.50213	4.06713	1.1037	0.28918	0.98274	0.89041	1637.43	14.2106	1647.74	8.99535	1660.9	9.29959	1660.9	9.29959	98.5868
GBR-HW39-22	334.432	102219	1.96038	5.2128	0.46204	13.6258	0.98519	0.52067	0.87012	0.8832	2702	19.2055	2724.06	9.31978	2740.44	7.5982	2740.44	7.5982	98.5976
GBR-HW39-22	150.067	42816.6	1.81995	11.3096	0.6004	2.84263	0.92864	0.23476	0.7059	0.76015	1359.39	8.65173	1366.86	6.97549	1378.55	11.5975	1378.55	11.5975	98.6101
GBR-HW39-22	193.431	48711	2.63452	10.1652	0.43585	3.67029	0.79631	0.27292	0.66479	0.83483	1555.61	9.18833	1564.93	6.35441	1577.5	8.20276	1577.5	8.20276	98.6125
GBR-HW39-22	408.48	239028	4.19918	13.3373	0.36924	1.79657	0.8742	0.17498	0.79238	0.90641	1039.52	7.60711	1044.22	5.70246	1054.07	7.43874	1054.07	7.43874	98.6191
GBR-HW39-22	148.059	32496.7	2.42987	11.2181	0.8392	2.85606	1.28555	0.23551	0.97127	0.75553	1363.32	11.935	1370.41	9.66844	1381.45	16.1813	1381.45	16.1813	98.6877
GBR-HW39-22	523.829	118270	3.18883	10.546	0.55157	3.35413	1.20082	0.25929	1.06658	0.88821	1486.21	14.1571	1493.76	9.39288	1504.46	10.4252	1504.46	10.4252	98.7867
GBR-HW39-22	167.003	141844	3.93521	13.7048	0.60512	1.66577	0.8328	0.16632	0.57212	0.68699	991.783	5.25929	995.575	5.28404	1003.92	12.2823	1003.92	12.2823	98.7911
GBR-HW39-22	209.484	112789	4.95015	12.1967	0.63312	2.34958	0.86084	0.20873	0.58322	0.6775	1222.05	6.49245	1227.43	6.13137	1236.89	12.4185	1236.89	12.4185	98.8007
GBR-HW39-22	16.7819	17856.4	1.49062	17.2574	2.19287	0.60064	2.3057	0.07675	0.71208	0.30884	476.688	3.27196	477.642	8.78547	482.243	48.4656	476.688	3.27196	98.8482
GBR-HW39-22	127.98	76453.5	1.19805	9.72566	0.51348	4.12278	0.79976	0.29197	0.61291	0.76637	1651.36	8.9289	1658.83	6.53553	1668.28	9.50179	1668.28	9.50179	98.9852
GBR-HW39-22	133.833	39622.1	1.91629	9.76947	0.51857	4.04765	0.69022	0.28912	0.45462	0.65866	1637.11	6.57274	1643.83	5.61996	1652.41	9.62609	1652.41	9.62609	99.0745
GBR-HW39-22	354.493	4295157	3.05221	12.6826	0.33082	2.10172	0.73211	0.19451	0.6531	0.89208	1145.78	6.85575	1149.37	5.03709	1156.14	6.56261	1156.14	6.56261	99.1042
GBR-HW39-22	135.6	28581.9	2.7063	13.4431	0.51431	1.71265	0.84984	0.16974	0.65236	0.76763	1010.69	6.10245	1013.28	5.4481	1018.85	11.0304	1018.85	11.0304	99.1992
GBR-HW39-22	89.1247	149583	1.87238	12.6372	0.67145	2.09243	0.94244	0.19412	0.6613	0.70169	1143.67	6.9302	1146.32	6.475	1151.32	13.3217	1151.32	13.3217	99.3354
GBR-HW39-22	145.542	440296	4.86236	10.5683	0.45481	3.38942	0.68753	0.26158	0.51559	0.74993	1497.93	6.89156	1501.95	5.39066	1507.62	8.59084	1507.62	8.59084	99.3574
GBR-HW39-22	80.4045	42535.5	1.75931	12.3984	0.60794	2.24649	1.09424	0.20329	0.9085	0.83025	1192.95	9.89423	1195.69	7.68848	1200.62	12.0412	1200.62	12.0412	99.3614
GBR-HW39-22	60.8656	37848	3.18067	5.06982	0.54204	14.5052	0.87303	0.53757	0.68399	0.78346	2773.28	15.4159	2783.35	8.29307	2790.64	8.88119	2790.64	8.88119	99.3778
GBR-HW39-22	39.9585	15450	2.41108	11.5181	0.75323	2.69488	1.26461	0.22801	0.9557	0.75573	1324.04	11.4388	1327.05	9.36562	1331.91	16.0223	1331.91	16.0223	99.4089
GBR-HW39-22	378.905	48911.6	3.07801	10.7847	0.48614	3.18957	1.26433	0.25246	1.16709	0.92309	1451.14	15.1653	1454.64	9.77384	1459.73	9.24322	1459.73	9.24322	99.4113
GBR-HW39-22	101.145	26146.6	1.72816	12.4612	0.64115	2.17867	0.88952	0.19937	0.59615	0.67019	1171.92	6.38817	1174.25	6.19067	1178.58	13.0555	1178.58	13.0555	99.435
GBR-HW39-22	91.7552	17249.3	1.18018	13.2875	0.8608	1.78512	1.5547	0.17475	1.28985	0.82965	1038.24	12.369	1040.05	10.1185	1043.87	17.5297	1043.87	17.5297	99.4601
GBR-HW39-22	322.015	37685.6	10.6323	8.79962	0.34401	5.06618	0.82924	0.32745	0.75346	0.90861	1826.02	11.9814	1830.46	7.03209	1835.5	6.27414	1835.5	6.27414	99.4839
GBR-HW39-22	130.133	49819.8	3.51758	11.5351	0.63926	2.70397	0.86298	0.22859	0.57821	0.67001	1327.1	6.93507	1329.55	6.39694	1333.47	12.3921	1333.47	12.3921	99.5219
GBR-HW39-22	194.208	37061.6	1.84187	9.54541	0.4199	4.24248	0.7949	0.29754	0.67489	0.84902	1679.09	9.97641	1682.28	6.53179	1686.25	7.75101	1686.25	7.75101	99.5753
GBR-HW39-22	106.348	18582.9	1.74172	9.79204	0.46463	3.97534	0.8447	0.28695	0.70347	0.8328	1626.27	10.1113	1629.18	6.85316	1632.91	8.68886	1632.91	8.68886	99.5932
GBR-HW39-22	357.976	124796	4.27258	12.4922	0.43635	2.16835	0.97024	0.1989	0.86654	0.89312	1169.42	9.26756	1170.95	6.74237	1173.8	8.65554	1173.8	8.65554	99.6268
GBR-HW39-22	453.554	512820	8.31797	13.2244	0.48224	1.85733	1.05495	0.17962	0.93827	0.8894	1064.88	9.20986	1066.04	6.963	1068.43	9.69295	1068.43	9.69295	99.6672
GBR-HW39-22	79.6354	19752.4	3.26593	14.2564	0.58774	1.4032	0.94772	0.14795	0.73001	0.77029	889.471	6.06521	890.29	5.61881	892.306	12.4799	889.471	6.06521	99.6823
GBR-HW39-22	58.1291	46729	1.70491	17.5182	1.0868	0.5746	1.35759	0.0741	0.81279	0.5987	460.819	3.61475	460.985	5.03035	461.833	24.1052	460.819	3.61475	99.7804
GBR-HW39-22	287.024	194427	2.94629	13.4487	0.4487	1.76237	0.84684	0.17344	0.71818	0.84807	1031.02	6.84277	1031.72	5.48592	1033.19	9.06689	1033.19	9.06689	99.7897
GBR-HW39-22	257.353	110858	1.34692	11.9605	0.44301	2.46904	0.85575	0.21628	0.73208	0.85549	1262.19	8.39191	1263.01	6.18442	1264.43	8.63736	1264.43	8.63736	99.8234
GBR-HW39-22	184.444	206462	2.98036	8.93799	0.55949	4.98377	0.97863	0.32524	0.80292	0.82045	1815.26	12.7027	1816.57	8.27639	1818.06	10.1558	1818.06	10.1558	99.8457
GBR-HW39-22	132.642	35862.7	0.22913	13.4351	0.49062	1.7364	0.72177	0.17173	0.52646	0.72941	1021.65	4.97404	1022.13	4.6505	1023.13	9.99179	1023.13	9.99179	99.8554
GBR-HW39-22	72.2479	89503	2.93648	9.80352	0.58434	4.05733	0.86485	0.29065	0.63749	0.7371	1644.75	9.25435	1645.77	7.04527	1647.05	10.8402	1647.05	10.8402	99.8603
GBR-HW39-22	247.138	58928.8	11.9692	13.43	0.45523	1.78802	0.70496	0.17519	0.5375	0.76245	1040.64	5.1653	1041.11	4.59065	1042.05	9.22362	1042.05	9.22362	99.865
GBR-HW39-22	162.03	48164.6	3.00522	10.7824	0.42844	3.2323	0.71719	0.25505	0.57354	0.79969	1464.48	7.5136	1464.94	5.56168	1465.58	8.17947	1465.58	8.17947	99.9248
GBR-HW39-22	228.909	27385.1	3.75753	11.5835	0.48406	2.69382	0.71773	0.2286	0.52965	0.73795	1327.14	6.35287	1326.76	5.31481	1326.13	9.37766	1326.13	9.37766	100.077
GBR-HW39-22	199.525	60508.9	2.73572	10.3431	0.41892	3.5484	0.74913	0.26961	0.62039	0.82815	1538.84	8.49281	1538.08	5.93422	1537.01	7.90041	1537.01	7.90041	100.119
GBR-HW39-22	173.871	36774.9	2.52498	9.85227	0.519	3.97779	1.02851	0.2878	0.88465	0.86013	1630.54	12.7449	1629.68	8.34551	1628.55	9.75204	1628.55	9.75204	100.122
GBR-HW39-22	181.283	916220	3.07113	12.9448	0.4994	1.98234	0.82573	0.18791	0.65759	0.79637	1110.03	6.70552	1109.52	5.57303	1108.5	9.99617	1108.5	9.99617	100.138
GBR-HW39-22	170.554	31214.9	3.35226	13.4574	0.53846	1.76809	0.85028	0.17403	0.64816	0.76228	1034.28	6.1936	1033.82	5.5147	1032.83	11.14	1032.83	11.14	100.14
GBR-HW39-22	102.53	25057.7	1.50302	9.86142	0.50315	3.95428	0.73709	0.28689	0.53702	0.72856	1625.95	7.71754	1624.87	5.97372	1623.45	9.39145	1623.45	9.39145	100.154
GBR-HW39-22	86.0713	31145.1	0.96877	8.6394	0.61045	5.3523	0.87172	0.33835	0.61626	0.70695	1878.73	10.0434	1877.26	7.45801	1875.61	11.1153	1875.61	11.1153	100.166
GBR-HW39-22	70.5941	5064649	0.89161	9.07235	0.47166	4.8615	0.72192	0.32153	0.54655	0.75707	1797.2	8.57217	1795.61	6.07979	1793.75	8.5885	1793.75	8.5885	100.192
GBR-HW39-22	156.435	170649	1.50584	12.9908	0.60915	1.97195	0.96152	0.1873	0.74395	0.77372	1106.73	7.5655	1105.98	6.47815	1104.5	12.1786	1104.5	12.1786	100.202
GBR-HW39-22	122.628	85239	2.06066	12.6887	0.45446	2.13538	0.76431	0.19737	0.61443	0.80391	1161.17	6.52894	1160.33	5.28552	1158.75	9.01415	1158.75	9.01415	100.209
GBR-HW39-22	113.822	397723	2.51662	5.5552	0.54546	12.5285	0.91171	0.50812	0.73054	0.80128	2648.58	15.8668	2644.87	8.57327	2642.01	9.05374	2642.01	9.05374	100.249
GBR-HW39-22	119.346	38191.6	3.69128	12.8273	0.62274	2.01342	1.10887	0.18993	0.91503	0.82519	1121.01	9.4152	1120.04	7.52307	1118.19	12.5008	1118.19	12.5008	100.252
GBR-HW39-22	383.309	41686.8	2.48669	13.3026	0.48593	1.80661	0.86928	0.17667	0.71775	0.82569	1048.77	6.94715	1047.85	5.68165	1045.95	9.90834	1045.95	9.90834	100.269
GBR-HW39-22	62.8173	38832.3	2.42253	12.7586	0.76044	2.05361	0.93953	0.19243	0.55148	0.58698	1134.54	5.73717	1133.5	6.41583	1131.48	15.1461	1131.48	15.1461	100.271
GBR-HW39-22	408.674	71180	4.04084	10.5143	0.38822	3.42854	0.81594	0.26447	0.71752	0.87937	1512.68	9.67428	1510.96	6.4142	1508.54	7.33726	1508.54	7.33726	100.274
GBR-HW39-22	34.5162	7671.45	2.06001	11.9865	0.83687	2.34744	1.0779	0.20986	0.64611	0.59942	1228.08	7.22477	1226.78	7.67537	1224.48	16.9297	1224.48	16.9297	100.294
GBR-HW39-22	554.066	53248.5	3.42965	12.7402	0.34453	2.08864	0.67958	0.19464	0.58325	0.85825	1146.47	6.12589	1145.08	4.66629	1142.43	6.91636	1142.43	6.91636	100.353
GBR-HW39-22	325.367	19406.9	1.83897	13.7097	0.44861	1.61736	0.79339	0.16385	0.65354	0.82373	978.159	5.9313	976.966	4.97809	974.304	9.1731	974.304	9.1731	100.396
GBR-HW39-22	45.0154	21270	2.95931	11.3936	0.73055	2.79318	0.90436	0.23408	0.5033	0.55652	1355.83	6.15402	1353.71	6.762	1350.35	14.5006	1350.35	14.5006	100.406
GBR-HW39-22	170.543	90914.5	2.92906	10.7564	0.46049	3.25395	0.84257	0.25674	0.70545	0.83725	1473.16	9.29041	1470.12	6.54427	1465.72	8.75152	1465.72	8.75152	100.508
GBR-HW39-22	203.881	38586.7	1.05731	13.8353	0.48489	1.6037	0.95153	0.16296	0.81612	0.85769	973.208	7.37204	971.652	5.95101	968.139	9.96577	968.139	9.96577	100.524
GBR-HW39-22	175.079	45479.1	7.0889	13.4064	0.47536	1.78211	0.71065	0.17527	0.52415	0.73757	1041.06	5.03891	1038.95	4.62218	1034.48	9.71464	1034.48	9.71464	100.636
GBR-HW39-22	47.8036	37435.3	2.14283	13.609	0.87007	1.69945	1.03281	0.1697	0.55201	0.53447	1010.45	5.16262	1008.33	6.6022	1003.68	17.6994	1003.68	17.6994	100.675

GBR-HW39-22	81.8438	64148.4	2.99997	9.93723	1.73882	3.98888	2.59766	0.28905	1.92975	0.74288	1636.78	27.8949	1631.93	21.0922	1625.68	32.3426	1625.68	32.3426	100.683
GBR-HW39-22	273.812	201293	4.83903	8.90451	0.39165	5.02756	0.9979	0.3283	0.91782	0.91976	1830.14	14.6235	1823.98	8.45163	1816.93	7.10974	1816.93	7.10974	100.727
GBR-HW39-22	144.255	22681.8	1.60799	12.6088	0.6714	2.12186	1.03503	0.19694	0.77303	0.74687	1158.86	8.19925	1155.94	7.14318	1150.45	13.6604	1150.45	13.6604	100.73
GBR-HW39-22	239.107	285935	0.88398	9.87906	0.62854	3.98493	1.04003	0.28901	0.82861	0.79672	1636.6	11.9765	1631.13	8.44204	1624.06	11.6911	1624.06	11.6911	100.772
GBR-HW39-22	140.049	27680.1	2.33232	14.0962	0.66666	1.4976	0.94299	0.15547	0.65483	0.69442	931.565	5.67989	929.413	5.74134	924.292	13.9415	924.292	13.9415	100.787
GBR-HW39-22	158.13	46056.5	1.55221	8.52213	0.49011	5.58695	0.85782	0.34726	0.70259	0.81904	1921.49	11.674	1914.09	7.38793	1906.06	8.84075	1906.06	8.84075	100.81
GBR-HW39-22	276.651	68832.2	5.08743	13.2005	0.39635	1.87695	0.66201	0.18163	0.52943	0.79974	1075.88	5.24612	1072.99	4.38545	1067.13	7.97113	1067.13	7.97113	100.82
GBR-HW39-22	59.7524	28728.3	1.79167	13.0393	0.76279	1.96	1.04781	0.18697	0.71821	0.68544	1104.92	7.29286	1101.88	7.04502	1095.86	15.2728	1095.86	15.2728	100.827
GBR-HW39-22	256.366	42872.1	2.18936	12.7647	0.45005	2.06072	0.92046	0.19328	0.80096	0.87018	1139.13	8.36331	1135.86	6.29265	1129.59	9.03258	1129.59	9.03258	100.845
GBR-HW39-22	83.0006	63179.7	1.95645	8.45273	0.46199	5.59268	0.77423	0.34751	0.62094	0.80202	1922.72	10.3231	1914.97	6.66901	1906.58	8.30647	1906.58	8.30647	100.847
GBR-HW39-22	162.295	55583.9	2.7615	11.6932	0.49427	2.62704	0.78715	0.2258	0.61152	0.77688	1312.43	7.26151	1308.24	5.78901	1301.35	9.63034	1301.35	9.63034	100.851
GBR-HW39-22	79.9532	10004.5	1.49329	13.4087	0.73604	1.72757	1.00412	0.17174	0.66825	0.66551	1021.71	6.31404	1018.84	6.45772	1012.68	15.1913	1012.68	15.1913	100.892
GBR-HW39-22	91.3757	13135.8	2.42714	12.5944	0.6424	2.08929	1.09371	0.19507	0.80263	0.73386	1148.8	8.44575	1145.29	7.5107	1138.64	14.7779	1138.64	14.7779	100.892
GBR-HW39-22	87.9344	86310.6	2.9141	12.8346	0.64783	2.03764	0.87837	0.1919	0.59298	0.67508	1131.64	6.15436	1128.17	5.98281	1121.48	12.941	1121.48	12.941	100.906
GBR-HW39-22	235.062	83872.2	1.68105	10.2978	0.57473	3.61231	0.9537	0.27343	0.76084	0.79778	1558.17	10.5312	1552.24	7.58428	1544.17	10.8091	1544.17	10.8091	100.907
GBR-HW39-22	189.992	80653.2	1.60533	9.64236	0.44716	4.23663	0.9236	0.29941	0.80793	0.87475	1688.38	12.0008	1681.15	7.58739	1672.11	8.27454	1672.11	8.27454	100.973
GBR-HW39-22	99.1525	25262.9	3.16748	12.7699	0.74226	2.06221	1.05417	0.19351	0.72855	0.69111	1140.36	7.61472	1136.35	7.20853	1128.72	15.1703	1128.72	15.1703	101.031
GBR-HW39-22	552.472	38317.4	5.38337	14.304	0.49274	1.4658	0.91853	0.15329	0.77492	0.84366	919.371	6.6397	916.401	5.54426	909.236	10.1744	909.236	10.1744	101.115
GBR-HW39-22	136.457	53011.1	1.61109	9.78629	0.41131	4.09308	0.65782	0.29392	0.51271	0.7794	1661.08	7.5077	1652.93	5.36799	1642.55	7.64873	1642.55	7.64873	101.128
GBR-HW39-22	221.247	38016.5	5.98121	13.3812	0.409	1.79	0.91013	0.1761	0.811	0.89108	1045.62	7.82802	1041.83	5.92909	1033.85	8.34454	1033.85	8.34454	101.139
GBR-HW39-22	111.207	19712.1	1.03213	12.6759	0.57614	2.12082	0.78422	0.19722	0.52083	0.66413	1160.35	5.5307	1155.6	5.41138	1146.74	11.63	1146.74	11.63	101.187
GBR-HW39-22	148.297	27752	3.56502	16.2609	0.67802	0.86016	1.06518	0.10298	0.80904	0.75954	631.842	4.86936	630.208	5.00131	624.329	14.9601	631.842	4.86936	101.203
GBR-HW39-22	106.557	34990.2	3.18926	13.593	0.63582	1.72796	0.88373	0.172	0.60898	0.6891	1023.12	5.76129	1018.99	5.68393	1010.12	12.9856	1010.12	12.9856	101.287
GBR-HW39-22	110.617	71991.4	2.54394	9.01315	0.56391	4.93466	0.89749	0.32601	0.69799	0.77771	1818.99	11.0623	1808.2	7.57757	1795.77	10.2709	1795.77	10.2709	101.293
GBR-HW39-22	97.478	321769	1.64555	5.39772	0.44931	13.3136	0.83257	0.52544	0.70093	0.84188	2722.23	15.564	2702.14	7.86334	2687.15	7.42524	2687.15	7.42524	101.306
GBR-HW39-22	127.7	31129.2	1.37735	8.84401	0.45066	5.15438	0.70328	0.33376	0.53638	0.76268	1856.57	8.65252	1845.12	5.98071	1832.21	8.24373	1832.21	8.24373	101.33
GBR-HW39-22	245.918	58718.2	3.32136	13.7205	0.55348	1.66342	0.92164	0.16758	0.73524	0.79776	998.778	6.80281	994.679	5.84461	985.652	11.2917	985.652	11.2917	101.332
GBR-HW39-22	106.008	28370.7	1.25177	8.98065	0.42236	4.96301	0.75713	0.3271	0.62783	0.82923	1824.29	9.97551	1813.04	6.3986	1800.12	7.69947	1800.12	7.69947	101.343
GBR-HW39-22	130.778	47201	2.24762	12.8092	0.60251	2.05291	1.88229	0.19316	1.78285	0.94717	1138.47	18.606	1133.27	12.8528	1123.32	12.0543	1123.32	12.0543	101.349
GBR-HW39-22	342.051	48025.8	2.78628	14.0621	0.43937	1.5448	0.94939	0.1592	0.84011	0.88489	952.315	7.43756	948.42	5.85192	939.413	9.06016	939.413	9.06016	101.373
GBR-HW39-22	160.71	208667	3.31346	11.3066	0.44208	2.96188	0.70984	0.24367	0.55535	0.78237	1405.76	7.01439	1397.9	5.38839	1385.9	8.4889	1385.9	8.4889	101.433
GBR-HW39-22	112.136	91573	2.05618	10.7053	0.50811	3.33133	0.88202	0.26148	0.7208	0.81722	1497.41	9.63148	1488.42	6.88831	1475.63	9.64294	1475.63	9.64294	101.476
GBR-HW39-22	202.732	59081	3.08793	14.0208	0.43455	1.58436	0.7936	0.16209	0.6633	0.83581	968.376	5.96407	964.085	4.94012	954.293	8.93011	954.293	8.93011	101.476
GBR-HW39-22	33.7345	6917.85	1.44238	13.4292	0.95521	1.65311	1.27112	0.16696	0.82614	0.64993	995.326	7.61941	990.743	8.04212	980.626	19.6581	980.626	19.6581	101.499
GBR-HW39-22	255.413	80680	8.0541	13.179	0.44177	1.91935	0.67376	0.18483	0.50787	0.75379	1093.29	5.10722	1087.84	4.49786	1076.97	8.872	1076.97	8.872	101.515
GBR-HW39-22	135.327	83712.5	0.99183	13.2777	0.52886	1.87425	0.86963	0.18194	0.69	0.79344	1077.54	6.84685	1072.03	5.758	1060.87	10.6507	1060.87	10.6507	101.571
GBR-HW39-22	219.372	20940	4.16713	13.5317	0.40015	1.7172	0.6489	0.17144	0.46902	0.72279	1020.06	4.42495	1014.98	4.164	1004.01	9.08209	1004.01	9.08209	101.598
GBR-HW39-22	146.298	27350.9	2.58456	13.4233	0.57639	1.79038	0.81793	0.17643	0.56659	0.69271	1047.43	5.47759	1041.96	5.32883	1030.49	11.9239	1030.49	11.9239	101.644
GBR-HW39-22	71.4333	102684	2.21263	13.6505	0.86003	1.72054	1.15536	0.1717	0.7714	0.66768	1021.49	7.28719	1016.23	7.4193	1004.89	17.4554	1004.89	17.4554	101.652
GBR-HW39-22	69.4076	16576	0.65206	11.9207	0.67856	2.52013	0.94546	0.22072	0.60183	0.63655	1285.67	7.01487	1277.86	6.87294	1264.76	14.2418	1264.76	14.2418	101.654
GBR-HW39-22	86.057	69742.6	3.63072	5.48479	0.52569	12.9962	0.82365	0.52136	0.634	0.76975	2704.93	14.006	2679.38	7.76583	2660.14	8.7151	2660.14	8.7151	101.684
GBR-HW39-22	25.088	9187.14	1.74098	13.3038	1.00694	1.74097	1.37347	0.17315	0.85621	0.62339	1029.43	8.14633	1023.82	8.85826	1011.84	21.7689	1011.84	21.7689	101.738
GBR-HW39-22	82.4061	14381.4	3.15402	12.8322	0.62171	2.01417	0.9953	0.1911	0.68799	0.69124	1127.32	7.11559	1120.3	6.75331	1106.68	14.3543	1106.68	14.3543	101.865
GBR-HW39-22	215.948	30159.7	4.27395	12.6865	0.49054	2.09774	0.87377	0.19631	0.71427	0.81745	1155.46	7.55573	1148.07	6.00813	1134.14	10.0127	1134.14	10.0127	101.88
GBR-HW39-22	203.704	41324.6	1.99163	13.3417	0.6637	1.84582	1.34414	0.18027	1.16855	0.86937	1068.45	11.5057	1061.94	8.85256	1048.6	13.41	1048.6	13.41	101.894
GBR-HW39-22	32.4146	7904.16	2.30371	13.5279	0.99066	1.67274	1.23872	0.16861	0.73159	0.5906	1004.42	6.8044	998.227	7.87195	984.663	20.3283	984.663	20.3283	102.007
GBR-HW39-22	88.6321	30181.7	1.73417	9.73866	0.49509	4.20482	0.75611	0.29971	0.56672	0.74952	1689.86	8.42442	1674.96	6.20241	1656.33	9.27092	1656.33	9.27092	102.024
GBR-HW39-22	89.1768	16356	2.25609	13.6616	0.59759	1.66356	1.01229	0.16798	0.80804	0.79823	1000.97	7.4916	994.735	6.41974	981.034	12.4194	981.034	12.4194	102.032
GBR-HW39-22	100.406	676037	3.27648	12.6638	0.66345	2.16055	1.01367	0.20026	0.76639	0.75605	1176.71	8.24295	1168.45	7.03612	1153.15	13.1634	1153.15	13.1634	102.043
GBR-HW39-22	76.9594	19026.4	3.55036	13.4029	0.57295	1.7788	0.81966	0.17592	0.49121	0.59928	1044.65	4.7372	1037.74	5.32768	1023.2	13.2799	1023.2	13.2799	102.097
GBR-HW39-22	128.271	19170.1	2.96505	12.8109	0.57527	2.03467	0.97102	0.19255	0.75166	0.77409	1135.15	7.82345	1127.18	6.61071	1111.83	12.2658	1111.83	12.2658	102.098
GBR-HW39-22	134.41	65257.5	3.41461	10.8324	0.52582	3.27899	0.8567	0.25983	0.67586	0.78891	1489	8.98585	1476.08	6.66597	1457.54	10.0108	1457.54	10.0108	102.158
GBR-HW39-22	89.6371	25967.4	4.26709	13.1219	0.72769	1.9462	1.00121	0.18702	0.68736	0.68653	1105.21	6.98123	1097.14	6.71563	1081.15	14.5856	1081.15	14.5856	102.226
GBR-HW39-22	230.432	37234.1	3.77735	13.1071	0.44393	1.92612	0.79662	0.18573	0.65879	0.82697	1098.2	6.65209	1090.19	5.32449	1074.26	8.98501	1074.26	8.98501	102.229
GBR-HW39-22	200.744	44379.2	1.12643	13.4109	0.57499	1.82578	0.89725	0.17927	0.68687	0.76553	1062.96	6.73095	1054.77	5.88649	1037.82	11.675	1037.82	11.675	102.423
GBR-HW39-22	28.8926	6430.89	1.96824	13.2203	0.90867	1.74762	1.57303	0.17401	1.00429	0.63845	1034.14	9.59561	1026.28	10.1595	1009.55	24.5463	1009.55	24.5463	102.436
GBR-HW39-22	117.615	23226.1	5.31426	13.2618	0.49189	1.86193	0.92502	0.18168	0.767	0.82917	1076.17	7.60204	1067.67	6.11066	1050.36	10.4399	1050.36	10.4399	102.457
GBR-HW39-22	109.339	19273.6	2.1665	13.6244	0.5815	1.70068	1.0192	0.1708	0.79739	0.78237	1016.5	7.49878	1008.79	6.51697	992.078	12.8873	992.078	12.8873	102.462
GBR-HW39-22	109.722	266562	3.46692	14.1343	0.60393	1.57445	0.89095	0.16192	0.65502	0.73519	967.459	5.88444	960.185	5.53263	943.556	12.3692	943.556	12.3692	102.533
GBR-HW39-22	106.634	26425.4	2.4451	12.662	0.58242	2.15149	0.90881	0.20016	0.69271	0.76221	1176.2	7.44757	1165.53	6.2999	1145.77	11.6715	1145.77	11.6715	102.656
GBR-HW39-22	206.502	179319	3.10699	15.2443	0.55174	1.17846	0.78502	0.13144	0.55838	0.7113	796.058	4.18157	790.598	4.31198	775.207	11.6075	796.058	4.18157	102.69
GBR-HW39-22	203.106	34207.8	2.58826	10.9129	0.89804	3.22206	1.74298	0.25775	1.49256	0.85633	1478.32	19.7176	1462.48	13.5069	1439.54	17.1586	1439.54	17.1586	102.694
GBR-HW39-22	65.4451	11353.8	2.10087	12.5326	0.62709	2.15638	1.04056	0.2006	0.63984	0.6149	1178.54	6.89159	1167.11	7.21841	1145.94	16.2859	1145.94	16.2859	102.844
GBR-HW39-22	141.625	29671	2.16126	13.4638	0.64823	1.77825	1.18533	0.17633	0.99139	0.83638	1046.88	9.57977	1037.54	7.70371	1017.9	13.1598	1017.9	13.1598	102.847
GBR-HW39-22	208.302	27482.3	4.29103	12.9566	0.53756	2.03458	1.10923	0.19307	0.96952	0.87405	1138.01	10.1143	1127.15	7.55156	1106.27	10.7878	1106.27	10.7878	102.869
GBR-HW39-22	122.154	56092	0.99323	13.7428	0.69078	1.68268	0.91905	0.1698	0.60522	0.65853	1011.03	5.66324	1002	5.85335	982.285	14.0783	982.285	14.0783	102.926
GBR-HW39-22	136.335	27738	1.304	16.4699	1.0165	0.82043	1.19903	0.0996	0.63323	0.52812	612.043	3.69736	608.289	5.48697	594.317	22.0659	612.043	3.69736	102.983
GBR-HW39-22	18.5579	2517.61	1.82771	11.7171	0.96286	2.26999	3.14434	0.20753	0.98106	0.31201	1215.66	10.8693	1203.01	22.1669	1180.4	59.0728	1180.4	59.0728	102.987
GBR-HW39-22	71.351	14087.4	1.80749	12.5745	0.69467	2.16146	1.13863	0.20108	0.82196	0.72189	1181.12	8.87086	1168.74	7.90461	1145.86	15.6573	1145.86	15.6573	103.077
GBR-HW39-22	122.89	38005	1.23498	13.5149	0.50101	1.7904	0.85967	0.17729	0.69601	0.80963	1052.16	6.75676	1041.97	5.60081	1020.65	10.2151	1020.65	10.2151	103.087
GBR-HW39-22	127.968	49430.4	1.85788	13.2726	0.65648	1.88997	0.90656	0.18403	0.62403	0.68835	1088.95	6.25241	1077.57	6.01997	1054.65	13.2643	1054.65	13.2643	103.253
GBR-HW39-22	19.1072	14618	0.651	8.38486	0.76326	5.84078	1.07241	0.3602	0.73233	0.68288	1983.1	12.5015	1952.48	9.29757	1920.16	14.0476	1920.16	14.0476	103.278
GBR-HW39-22	330.05	63873.4	3.64957	13.4155	0.47967	1.82349	0.87478	0.17965	0.73085	0.83547	1065.04	7.17492	1053.94	5.73657	1030.99	9.71621	1030.99	9.71621	103.303
GBR-HW39-22	99.4283	11996.5	2.6652	13.5467	0.58361	1.73494	0.96567	0.17364	0.74084	0.76718	1032.14	7.06577	1021.59	6.22014	999.025	12.5678	999.025	12.5678	103.315
GBR-HW39-22	78.0205	157838	3.32458	11.3878	0.5832	2.94051	0.9774	0.24478	0.78433	0.80247	1411.48	9.94249	1392.41	7.40593	1363.29	11.2345	1363.29	11.2345	103.534
GBR-HW39-22	115.473	20302.8	2.64993	13.5052	0.62027	1.77377	0.93046	0.17651	0.65905	0.70831	1047.86	6.37389	1035.9	6.04169	1010.73	13.3167	1010.73	13.3167	103.673
GBR-HW39-22	41.9717	5738.19	3.69578	13.4216	0.70205	1.6589	1.1222	0.16863	0.81953	0.73029	1004.55	7.62323	992.957	7.10927	967.454	15.6529	967.454	15.6529	103.834
GBR-HW39-22	238.372	51070.4	2.09202	18.0801	0.58458	0.50446	1.24306	0.06684	1.09594	0.88165	417.069	4.4261	414.715	4.23221	401.614	13.1391	417.069	4.4261	103.848
GBR-HW39-22	31.1048	8957.06	1.19095	11.5091	0.67866	2.76109	0.92699	0.23593	0.62467	0.67387	1365.5	7.68704	1345.09	6.91003	1312.74	13.2874	1312.74	13.2874	104.019
GBR-HW39-22	69.1446	19337.1	1.18783	13.1694	0.59871	1.94328	0.9178	0.18804	0.65354	0.71207	1110.75	6.66828	1096.13	6.15304	1067.23	12.9396	1067.23	12.9396	104.078
GBR-HW39-22	85.0914	23018	3.13585	12.7849	0.66114	2.1243	0.87605	0.19955	0.54367	0.62059	1172.92	5.83037	1156.73	6.04823	1126.54	13.7007	1126.54	13.7007	104.118
GBR-HW39-22	169.743	17627.5	1.99294	13.4102	0.46543	1.81016	0.75561	0.17939	0.57318	0.75856	1063.64	5.62015	1049.14	4.94216	1019.04	9.96964	1019.04	9.96964	104.377
GBR-HW39-22	229.995	15386	2.20648	17.4331	0.68584	0.58116	0.98791	0.0754	0.69656	0.70509	468.608	3.14832	465.205	3.68695	448.423	15.566	468.608	3.14832	104.501
GBR-HW39-22	52.5074	18844.3	3.23771	12.6654	0.74005	2.15427	1.03452	0.20169	0.71081	0.68709	1184.37	7.69048	1166.43	7.17428	1133.25	14.9544	1133.25	14.9544	104.51
GBR-HW39-22	42.0895	11299.6	3.42841	13.6338	0.83787	1.71055	1.06917	0.17266	0.65735	0.61483	1026.76	6.23939	1012.49	6.85113	981.76	17.1643	981.76	17.1643	104.584
GBR-HW39-22	53.5927	11235.5	2.91018	12.1702	0.8183	2.41509	1.10651	0.21736	0.67924	0.61386	1267.91	7.81808	1247.1	7.94558	1211.32	17.1921	1211.32	17.1921	104.671
GBR-HW39-22	98.9041	23543.8	0.96139	16.2861	0.7532	0.87504	1.06919	0.10518	0.75839	0.70931	644.711	4.65285	638.301	5.06647	615.655	16.2949	644.711	4.65285	104.719
GBR-HW39-22	106.864	37415.3	2.98128	12.9174	0.52436	2.06863	0.85323	0.19655	0.6701	0.78536	1156.76	7.09576	1138.48	5.84039	1103.81	10.5601	1103.81	10.5601	104.797
GBR-HW39-22	175.777	20086.7	1.50089	17.6257	1.00843	0.57893	1.2249	0.07549	0.61987	0.50606	469.152	2.80484	463.776	4.56036	437.221	23.519	469.152	2.80484	107.303
GBR-HW39-22	83.886	1486813	1.51108	18.143	1.04899	0.52701	1.26162	0.06976	0.70094	0.55559	434.683	2.94642	429.826	4.42122	403.852	23.4888	434.683	2.94642	107.634
GBR-HW39-22	368.759	39381.4	2.70246	18.1019	0.58973	0.49984	0.87248	0.06676	0.62937	0.72135	416.598	2.53901	411.592	2.95239	383.593	13.5781	416.598	2.53901	108.604
GBR-HW39-22	107.991	20891.4	1.83736	17.9847	0.87599	0.52255	1.15793	0.06938	0.69009	0.59597	432.443	2.88634	426.855	4.03525	396.77	20.8461	432.443	2.88634	108.991

GBR-HW39-22	114.563	30395.7	2.32927	17.9572	0.86158	0.5394	1.21585	0.07129	0.85478	0.70303	443.946	3.66704	438.026	4.32585	407.011	19.3507	443.946	3.66704	109.075
GBR-HW39-22	206.313	20814.6	1.59328	18.0573	0.74175	0.5075	1.06358	0.06773	0.69126	0.64993	422.464	2.82668	416.768	3.63566	385.338	18.1581	422.464	2.82668	109.635
GBR-HW39-22	180.512	10833.9	1.23276	17.8584	0.86156	0.53366	1.40327	0.0712	0.74886	0.53365	443.352	3.2085	434.236	4.95805	386.151	26.6555	443.352	3.2085	114.813
GBR-HW39-22	359.392	9250.74	1.78034	17.8638	0.65755	0.51405	1.02796	0.06898	0.7886	0.76715	430.008	3.28043	421.167	3.54383	373.023	14.8445	430.008	3.28043	115.276
GBR-HW39-22	240.454	9708.99	1.50625	17.9961	0.66942	0.49446	0.92789	0.06696	0.58988	0.63572	417.828	2.38651	407.945	3.11727	352.401	16.1846	417.828	2.38651	118.566
GBR-HW39-22	119.795	8971.31	1.28846	18.0963	0.85487	0.47414	1.54457	0.06471	0.51099	0.33083	404.228	2.00212	394.047	5.04442	334.732	33.0304	404.228	2.00212	120.762
GBR-HW39-22	65.0464	3594.61	1.35054	16.3211	0.74679	0.77983	1.17965	0.09966	0.87108	0.73842	612.413	5.08907	585.384	5.24818	481.916	17.5828	612.413	5.08907	127.079
GBR-HW39-22	60.1138	4622.58	1.07274	17.1002	0.97705	0.6409	1.36263	0.08455	0.80329	0.58952	523.254	4.03719	502.864	5.40406	411.114	24.6144	523.254	4.03719	127.277
GBR-HW39-22	67.1276	4204.47	1.53723	17.5718	1.5381	0.48919	2.65326	0.06703	0.70593	0.26606	418.21	2.85855	404.362	8.85017	325.979	58.0685	418.21	2.85855	128.293
GBR-HW39-22	66.9195	6218.76	1.90116	17.3939	1.08103	0.64668	1.44903	0.08569	0.77793	0.53686	529.978	3.95793	506.434	5.77821	401.442	27.3854	529.978	3.95793	132.018
GBR-HW39-22	61.1266	5457.46	2.10538	18.0689	1.47128	0.45157	1.71048	0.06271	0.83899	0.4905	392.092	3.19158	378.377	5.40303	295.275	34.0058	392.092	3.19158	132.789
GBR-HW39-22	57.6583	3299.95	3.15099	17.8037	1.52266	0.47368	2.18502	0.06684	0.7127	0.32617	417.071	2.87833	393.728	7.13141	258.842	47.4737	417.071	2.87833	161.13
GBR-HW39-22	76.4035	3523	0.74803	17.9064	1.22518	0.48118	2.07657	0.06792	0.75803	0.36504	423.629	3.108	398.879	6.84984	257.88	44.4291	423.629	3.108	164.274
GBR-HW39-22	55.0918	2915.95	1.59055	17.5312	1.35791	0.49309	1.56026	0.06947	0.55691	0.35693	432.936	2.33188	407.012	5.232	262.457	33.4788	432.936	2.33188	164.955

GBR-NTB-22

Sample	U (ppm)	206Pb 204Pb	U/Th	206Pb* 207Pb*	Â± (%)	207Pb* 235U	Â± (%)	206Pb* 238U	Â± (%)	error corr.	206Pb* 238U	Â± (Ma)	207Pb* 235U	Â± (Ma)	206Pb* 207Pb*	Â± (Ma)	Best age (Ma)	Â± (Ma)	Conc (%)
GBR-NTB-22	271.515	2976.12	2.17032	10.6018	7.92958	0.91282	8.6646	0.07465	2.30576	0.26611	464.089	10.3247	658.556	42.0085	1397.46	160.403	1397.46	160.403	33.2096
GBR-NTB-22	434.137	17739.9	12.6615	15.1265	0.74573	0.61815	1.00544	0.06908	0.67372	0.67008	430.621	2.80642	488.688	3.9	771.006	15.7115	430.621	2.80642	55.8519
GBR-NTB-22	365.481	8404.81	2.43318	14.4645	3.36371	0.70987	3.68509	0.07703	0.81156	0.22023	478.382	3.74178	544.668	15.5356	832.649	74.9484	478.382	3.74178	57.453
GBR-NTB-22	230.728	15947.2	2.60957	14.5917	1.41327	0.77151	2.13763	0.08343	1.50586	0.70446	516.535	7.47485	580.63	9.45307	840.042	31.5899	516.535	7.47485	61.4893
GBR-NTB-22	464.648	16325.8	2.74338	16.1458	1.20824	0.53607	1.56149	0.06417	0.98697	0.63207	400.957	3.83675	435.832	5.53332	624.523	26.091	400.957	3.83675	64.2021
GBR-NTB-22	564.725	11662.4	4.52346	15.8317	1.15683	0.57178	1.98261	0.06756	1.60643	0.81026	421.42	6.55329	459.166	7.32341	652.725	24.9374	421.42	6.55329	64.5631
GBR-NTB-22	197.221	1834794	1.48131	16.9136	1.1041	0.54674	1.32244	0.06768	0.72788	0.55041	422.192	2.9746	442.86	4.7465	551.731	24.0799	422.192	2.9746	76.5214
GBR-NTB-22	746.362	31818	7.97353	14.6778	1.19339	1.01396	2.04617	0.10952	1.64674	0.80479	669.96	10.4785	710.872	10.4606	842.34	25.2756	669.96	10.4785	79.5355
GBR-NTB-22	161.024	95555	3.12135	9.32303	0.50079	3.50762	0.98658	0.24019	0.8498	0.86136	1387.69	10.6098	1528.93	7.79535	1730.22	9.19815	1730.22	9.19815	80.2035
GBR-NTB-22	850.707	32934.8	12.0978	11.582	0.51632	2.13153	1.20808	0.18158	1.08435	0.89758	1075.63	10.7424	1159.08	8.34968	1318.61	10.3228	1318.61	10.3228	81.5728
GBR-NTB-22	203.843	523863	7.15536	7.30234	2.13933	5.92216	2.30908	0.31673	0.86899	0.37633	1773.72	13.4747	1964.49	20.0615	2171.87	37.276	2171.87	37.276	81.6675
GBR-NTB-22	183.548	18408.8	1.42705	16.5532	1.18284	0.61592	1.34214	0.07547	0.55592	0.41421	469.02	2.5148	487.288	5.1944	574.134	26.5436	469.02	2.5148	81.6917
GBR-NTB-22	173.064	4402.95	5.29789	7.70445	2.1201	5.14218	2.29742	0.29577	0.88349	0.38456	1670.28	12.9999	1843.1	19.5321	2044.21	37.4859	2044.21	37.4859	81.7076
GBR-NTB-22	127.119	49276.2	1.54049	5.91678	2.60444	8.95621	2.95771	0.38796	1.40153	0.47385	2113.35	25.254	2333.55	27.0221	2532.12	43.7115	2532.12	43.7115	83.4616
GBR-NTB-22	459.379	9437.77	2.27284	11.1788	1.60404	2.32665	1.85082	0.19344	0.92081	0.49752	1139.98	9.62133	1220.46	13.1445	1365.65	30.9177	1365.65	30.9177	83.4757
GBR-NTB-22	204.825	121612	4.4529	11.297	0.58225	2.36537	2.2766	0.19572	2.20083	0.96672	1152.29	23.2227	1232.21	16.2487	1374.85	11.2006	1374.85	11.2006	83.8116
GBR-NTB-22	185.139	4816.31	1.60237	4.94688	2.17075	12.0398	3.50267	0.44121	2.67679	0.76422	2356.07	52.8278	2607.51	32.8495	2809.04	36.931	2809.04	36.931	83.8746
GBR-NTB-22	625.828	31493	3.76326	12.5583	0.45443	1.78016	0.77543	0.16428	0.62825	0.81019	980.545	5.71464	1038.24	5.04158	1161.78	9.02916	1161.78	9.02916	84.4002
GBR-NTB-22	287.752	33642.5	5.02816	17.0336	0.94031	0.56081	1.38814	0.07053	1.01272	0.72955	439.335	4.30099	452.051	5.06444	517.232	20.8384	439.335	4.30099	84.9396
GBR-NTB-22	333.166	25922.9	3.07476	12.1336	0.97552	2.00006	2.1159	0.1782	1.85966	0.8789	1057.13	18.1318	1115.53	14.3241	1231.18	19.8073	1231.18	19.8073	85.8631
GBR-NTB-22	160.767	50934.6	2.25051	17.3172	1.04659	0.52629	1.254	0.06709	0.69012	0.55033	418.612	2.79712	429.346	4.39056	487.344	23.1079	418.612	2.79712	85.8968
GBR-NTB-22	624.092	166324	27.4843	17.2304	0.96595	0.56092	1.26897	0.07079	0.82285	0.64844	440.888	3.50659	452.127	4.63027	509.694	21.2473	440.888	3.50659	86.5004
GBR-NTB-22	211.041	136836	1.64132	6.25293	0.58528	8.56166	0.95703	0.39165	0.75716	0.79115	2130.47	13.7364	2292.49	8.70144	2440.21	9.91383	2440.21	9.91383	87.3067
GBR-NTB-22	71.887	22379.8	2.90613	12.6876	0.91051	1.78686	1.14237	0.16687	0.6536	0.57214	994.85	6.02543	1040.68	7.43735	1138.25	18.6282	1138.25	18.6282	87.4015
GBR-NTB-22	268.562	11463.7	1.68178	11.4804	2.59872	2.31718	2.83925	0.1973	0.89495	0.31521	1160.78	9.50685	1217.56	20.141	1319.62	52.2302	1319.62	52.2302	87.9636
GBR-NTB-22	114.22	319262	1.12296	17.4398	1.01159	0.54246	1.20332	0.06913	0.65166	0.54155	430.918	2.71631	440.048	4.29703	488.086	22.3011	430.918	2.71631	88.2873
GBR-NTB-22	400.668	29843.1	4.56755	13.0353	0.56349	1.66972	1.03648	0.16059	0.86487	0.83442	960.065	7.71455	997.078	6.58227	1079.38	11.4445	1079.38	11.4445	88.9458
GBR-NTB-22	224.404	26758.9	4.12535	12.9704	0.7483	1.7043	1.22995	0.1633	0.95989	0.78043	975.062	8.6861	1010.15	7.87079	1087.03	15.395	1087.03	15.395	89.6995
GBR-NTB-22	120.293	79322.3	0.84158	17.1815	1.24269	0.58244	2.11569	0.07351	1.71222	0.8093	457.288	7.55854	466.029	7.90704	509.326	27.3139	457.288	7.55854	89.783
GBR-NTB-22	220.024	35061.6	1.21465	9.69575	0.51643	3.68058	1.55883	0.26134	1.47075	0.9435	1496.69	19.6441	1567.17	12.447	1663.42	9.55914	1663.42	9.55914	89.977
GBR-NTB-22	642.977	78640.8	8.48934	13.2867	0.37891	1.64401	0.8096	0.15977	0.71545	0.88371	955.494	6.35359	987.254	5.11146	1058.56	7.62701	1058.56	7.62701	90.2635
GBR-NTB-22	117.891	59715.2	0.96474	8.90626	0.49545	4.43976	0.97716	0.29024	0.84207	0.86175	1642.72	12.211	1719.79	8.0981	1814.93	9.00166	1814.93	9.00166	90.5114
GBR-NTB-22	319.923	72291.1	5.4883	5.52633	0.39358	11.1556	1.03903	0.45117	0.96139	0.92527	2400.43	19.268	2536.21	9.68249	2646.67	6.53771	2646.67	6.53771	90.6962
GBR-NTB-22	305.721	180234	3.28642	5.61656	0.33284	10.9212	0.65486	0.44779	0.56395	0.86118	2385.42	11.2443	2516.45	6.09163	2623.88	5.53637	2623.88	5.53637	90.9119
GBR-NTB-22	335.108	57088.9	1.70125	17.5993	0.80639	0.5091	1.17103	0.06596	0.84393	0.72068	411.77	3.36639	417.84	4.01126	451.472	18.0281	411.77	3.36639	91.206
GBR-NTB-22	133.108	13502.2	1.44632	8.69642	2.0452	4.69114	2.22846	0.30032	0.83878	0.37639	1692.87	12.4881	1765.66	18.6536	1852.86	37.3241	1852.86	37.3241	91.3653
GBR-NTB-22	38.7797	54689.5	0.8595	5.60761	0.60534	11.0016	1.01843	0.45096	0.81868	0.80386	2399.5	16.4025	2523.27	9.47957	2624.36	10.0752	2624.36	10.0752	91.4318
GBR-NTB-22	177.925	72054.4	5.89936	5.94994	0.76842	9.92104	0.96226	0.43214	0.57921	0.60192	2315.37	11.2666	2427.47	8.87622	2522.81	12.9076	2522.81	12.9076	91.7773
GBR-NTB-22	150.252	294991	1.18414	11.2132	0.52566	2.65662	0.75172	0.21877	0.53736	0.71484	1275.39	6.21812	1316.48	5.54552	1384.02	10.0962	1384.02	10.0962	92.1512
GBR-NTB-22	219.843	138382	2.43484	9.75576	0.61703	3.74491	1.17781	0.26751	1.00323	0.85177	1528.13	13.6491	1581.03	9.43914	1652.32	11.4358	1652.32	11.4358	92.484
GBR-NTB-22	129.132	18215.7	2.02897	17.0561	0.97552	0.5997	1.22836	0.07577	0.7379	0.60072	470.827	3.3504	477.045	4.6758	507.072	21.6106	470.827	3.3504	92.8522
GBR-NTB-22	430.426	270470	1.50214	9.56927	0.37891	3.9503	1.0158	0.27612	0.94248	0.92782	1571.79	13.1461	1624.05	8.23088	1692.43	6.98767	1692.43	6.98767	92.8716
GBR-NTB-22	32.2032	3071.11	0.92788	16.2536	1.98609	0.53906	2.26637	0.06942	0.86848	0.3832	432.642	3.63409	437.808	8.06034	465.066	46.3917	432.642	3.63409	93.028
GBR-NTB-22	177.377	71514.3	4.4396	10.901	1.83565	2.89482	2.03232	0.23141	0.87152	0.42883	1341.89	10.5579	1380.56	15.3387	1440.87	34.9936	1440.87	34.9936	93.1304
GBR-NTB-22	505.622	113870	12.1224	10.1067	2.25337	3.48973	2.7655	0.25823	1.60322	0.57972	1480.78	21.2109	1524.9	21.8294	1586.64	42.1246	1586.64	42.1246	93.328
GBR-NTB-22	515.333	60343.9	2.75364	11.9021	0.42966	2.31902	1.29873	0.2023	1.22554	0.94364	1187.69	13.2934	1218.12	9.21415	1272.43	8.36744	1272.43	8.36744	93.3405
GBR-NTB-22	273.836	68876.1	1.15084	9.84743	0.40877	3.67986	0.75906	0.26614	0.63929	0.84221	1521.2	8.66266	1567.01	6.06052	1629.25	7.60799	1629.25	7.60799	93.3682
GBR-NTB-22	183.656	33250.9	2.82695	11.9957	0.55686	2.26001	1.25193	0.19928	1.12003	0.89464	1171.45	11.9975	1199.91	8.81278	1251.51	10.9395	1251.51	10.9395	93.6026
GBR-NTB-22	36.7529	11109.6	2.74889	13.2995	1.03693	1.60754	1.21842	0.1594	0.62757	0.51507	953.468	5.5622	973.149	7.62718	1017.83	21.1527	1017.83	21.1527	93.6764
GBR-NTB-22	225.589	99826.1	4.04552	17.2578	0.80385	0.59828	1.1292	0.07575	0.79224	0.70159	470.703	3.59619	476.143	4.29197	502.421	17.7005	470.703	3.59619	93.6868
GBR-NTB-22	236.438	148006	4.51121	10.0213	0.55961	3.58924	1.11266	0.26338	0.96166	0.86429	1507.1	12.9237	1547.15	8.83622	1602.29	10.4407	1602.29	10.4407	94.0589
GBR-NTB-22	444.017	111057	3.97614	9.79806	0.59115	3.8097	1.02575	0.27291	0.83809	0.81705	1555.55	11.5832	1594.8	8.24999	1647.04	10.9695	1647.04	10.9695	94.4449
GBR-NTB-22	358.01	96546.6	5.55075	10.4641	0.45806	3.26502	1.31833	0.25002	1.23603	0.93757	1438.58	15.937	1472.76	10.2479	1522.35	8.64221	1522.35	8.64221	94.4972
GBR-NTB-22	53.2978	49464.3	1.39155	5.39936	0.58574	12.2824	1.19508	0.48522	1.04139	0.8714	2549.96	21.9322	2626.23	11.2215	2685.54	9.69112	2685.54	9.69112	94.9514
GBR-NTB-22	178.715	73599.6	1.29104	9.047	0.49226	4.5628	0.92771	0.30219	0.78564	0.84686	1702.17	11.753	1742.5	7.7266	1791.23	8.98681	1791.23	8.98681	95.0282
GBR-NTB-22	309.809	43817.7	6.35261	9.14705	0.4239	4.42359	0.82847	0.29729	0.71179	0.85916	1677.84	10.5151	1716.77	6.86126	1764.56	7.74731	1764.56	7.74731	95.0852
GBR-NTB-22	322.56	78378.4	3.19572	8.71716	0.4419	4.95708	0.913	0.31596	0.79893	0.87506	1769.96	12.3656	1812.03	7.71442	1860.75	7.97959	1860.75	7.97959	95.121
GBR-NTB-22	419.579	226202	8.42275	11.1678	1.59698	2.78763	2.38294	0.22841	1.76863	0.7422	1326.15	21.1994	1352.23	17.8097	1393.7	30.6335	1393.7	30.6335	95.1529
GBR-NTB-22	43.3588	41962.6	1.27491	13.3281	0.94818	1.68807	1.14603	0.16571	0.64314	0.56119	988.409	5.89347	1004.03	7.30776	1038.28	19.1719	1038.28	19.1719	95.1969
GBR-NTB-22	170.991	19564	2.43438	8.38218	1.46082	5.28718	1.82802	0.32701	1.06624	0.58328	1823.87	16.938	1866.79	15.6104	1914.91	26.6422	1914.91	26.6422	95.2456
GBR-NTB-22	415.285	183997	8.80439	9.08535	0.35184	4.53325	0.747	0.30165	0.65895	0.88212	1699.46	9.84405	1737.09	6.21424	1782.69	6.41392	1782.69	6.41392	95.3316
GBR-NTB-22	242.18	308874	2.56009	13.1771	0.47338	1.78216	0.73819	0.17196	0.56641	0.7673	1022.93	5.35769	1038.97	4.80138	1072.89	9.50879	1072.89	9.50879	95.3427
GBR-NTB-22	122.393	52721.3	3.05075	13.0817	0.8013	1.80696	0.97592	0.17362	0.55358	0.56724	1032.03	5.27922	1047.98	6.37916	1081.36	16.1049	1081.36	16.1049	95.4381
GBR-NTB-22	149.099	40797.5	2.26134	17.4923	0.89861	0.55699	1.14365	0.07168	0.69988	0.61197	446.285	3.01778	449.566	4.15421	466.408	20.0356	446.285	3.01778	95.6855
GBR-NTB-22	245.059	146599	4.82571	11.8978	0.80599	2.40387	1.30366	0.20909	1.02457	0.78592	1223.96	11.4218	1243.75	9.34853	1278.18	15.7136	1278.18	15.7136	95.7586
GBR-NTB-22	24.3179	14450.1	0.50388	18.1779	2.33894	0.39333	2.5448	0.05334	0.99872	0.39246	334.97	3.25999	336.802	7.29454	349.491	52.9088	334.97	3.25999	95.8452
GBR-NTB-22	467.365	247071	16.6363	9.28008	0.48228	4.35967	0.75202	0.2962	0.57699	0.76726	1672.44	8.4997	1704.73	6.21126	1744.63	8.83407	1744.63	8.83407	95.8626
GBR-NTB-22	162.949	169528	3.21044	10.7825	0.57191	3.08577	0.81962	0.24368	0.58703	0.71623	1405.81	7.41473	1429.16	6.28544	1464.09	10.8671	1464.09	10.8671	96.0196
GBR-NTB-22	156.156	1.3E+07	5.59207	12.4794	0.72873	2.1154	1.75569	0.19306	1.59731	0.90979	1137.93	16.6623	1153.84	12.1053	1183.87	14.3814	1183.87	14.3814	96.1188
GBR-NTB-22	205.35	616845	5.82832	13.5432	0.67141	1.65705	1.71742	0.16421	1.58074	0.92042	980.108	14.3727	992.25	10.8758	1019.17	13.5954	1019.17	13.5954	96.167
GBR-NTB-22	106.138	234561	1.64793	17.5586	1.12302	0.55827	1.29405	0.07188	0.64295	0.49685	447.492	2.77956	450.401	4.70747	465.277	24.8797	447.492	2.77956	96.1775
GBR-NTB-22	417.592	112950	12.5014	14.5471	0.54567	1.29058	1.28772	0.13787	1.16635	0.90575	832.628	9.11035	841.553	7.36713	865.191	11.315	832.628	9.11035	96.2363
GBR-NTB-22	175.777	21280.5	2.02378	17.6978	0.71692	0.50779	1.10591	0.06642	0.83701	0.75686	414.53	3.36047	416.964	3.78178	430.426	16.11	414.53	3.36047	96.3071
GBR-NTB-22	18.7419	6955.38	1.32633	13.5017	1.23576	1.53501	1.50651	0.15588	0.76831	0.50999	933.856	6.6794	944.505	9.26285	969.413	26.4223	969.413	26.4223	96.3322
GBR-NTB-22	204.984	154673	1.71109	4.93333	0.32869	14.6406	0.83273	0.52813	0.7651	0.91879	2733.55	17.0458	2792.17	7.91498	2834.79	5.35814	2834.79	5.35814	96.4287
GBR-NTB-22	143.284	69306.3	3.78308	11.6794	0.56223	2.53631	1.06258	0.21693	0.90151	0.84842	1265.62	10.3596	1282.51	7.73839	1310.91	10.9137	1310.91	10.9137	96.5453
GBR-NTB-22	176.683	99930.4	2.00106	17.563	0.76712	0.5704	1.01854	0.07324	0.66991	0.65771	455.635	2.94695	458.272	3.75644	471.513	16.9773	455.635	2.94695	96.6324
GBR-NTB-22	41.8114	62098.2	0.87174	8.55812	0.98959	5.21943	1.23627	0.32751	0.74097	0.59936	1826.29	11.7843	1855.79	10.5349	1889	17.8113	1889	17.8113	96.68
GBR-NTB-22	442.824	84448.5	1.09755	8.89111	0.35361	4.81636	0.81681	0.31395	0.73621	0.90132	1760.12	11.3398	1787.76	6.86792	1820.15	6.4197	1820.15	6.4197	96.7024
GBR-NTB-22	257.552	56674.7	2.74449	11.4554	0.50789	2.65163	0.83698	0.22312	0.66521	0.79477	1298.34	7.82251	1315.1	6.17133	1342.51	9.81308	1342.51	9.81308	96.7096
GBR-NTB-22	348.819	73978.6	2.68358	9.70052	0.37092	4.00097	0.99507	0.28384	0.92328	0.92785	1610.67	13.1587	1634.39	8.08358	1665.03	6.86582	1665.03	6.86582	96.7354
GBR-NTB-22	110.637	61791.6	4.19593	10.3841	0.5542	3.39009	0.84266	0.25856	0.63448	0.75294	1482.47	8.40276	1502.11	6.60734	1529.89	10.4422	1529.89	10.4422	96.9004
GBR-NTB-22	284.507	177715	3.25915	11.2842	0.43593	2.78858	0.75443	0.23033	0.61566	0.81606	1336.22	7.42995	1352.48	5.63843	1378.27	8.38117	1378.27	8.38117	96.9495
GBR-NTB-22	378.107	8313535	1.19332	8.9439	0.3637	4.78391	0.68784	0.31333	0.58382	0.84877	1757.07	8.9789	1782.08	5.77674	1811.48	6.60642	1811.48	6.60642	96.9965
GBR-NTB-22	42.5094	33509	5.27525	11.9088	0.74266	2.39351	1.11796	0.2097	0.83358	0.74563	1227.22	9.31505	1240.66	8.00665	1264.1	14.5518	1264.1	14.5518	97.0822
GBR-NTB-22	209.776	1219928	4.61472	13.7232	0.68574	1.61853	0.93905	0.16211	0.64153	0.68317	968.494	5.76897	977.421	5.89365	997.514	13.9182	997.514	13.9182	97.0907
GBR-NTB-22	544.821	289306	7.30054	9.19734	0.38598	4.49623	0.72294	0.30321	0.61127	0.84554	1707.21	9.16812	1730.28	6.00507	1758.27	7.05944	1758.27	7.05944	97.0964
GBR-NTB-22	43.4519	68730.9	1.457	13.9562	0.99706	1.49401	1.15275	0.15337	0.57842	0.50177	919.825	4.95826	927.95	7.01178	947.308	20.4227	947.308	20.4227	97.0989

GBR-NTB-22	19.3031	26987.2	1.47243	5.21305	0.65028	13.3914	0.94209	0.51133	0.68125	0.72312	2662.31	14.8582	2707.65	8.90138	2741.65	10.7009	2741.65	10.7009	97.1059
GBR-NTB-22	116.15	53398.5	2.96935	11.1163	0.52168	2.88521	0.90245	0.23536	0.73524	0.81472	1362.51	9.02988	1378.06	6.80492	1402.21	10.0256	1402.21	10.0256	97.1684
GBR-NTB-22	150.663	357544	1.12266	5.04315	0.92418	14.2506	1.21913	0.52523	0.79509	0.65218	2721.31	17.6502	2766.53	11.5677	2799.68	15.1225	2799.68	15.1225	97.2009
GBR-NTB-22	554.845	291130	2.91404	14.0671	0.45256	1.48316	0.84965	0.15272	0.71909	0.84633	916.204	6.14154	923.523	5.15297	941.028	9.26851	941.028	9.26851	97.3621
GBR-NTB-22	299.606	134374	1.45436	9.28101	0.57139	4.45382	0.87847	0.30213	0.66719	0.75949	1701.87	9.97952	1722.41	7.28444	1747.45	10.4639	1747.45	10.4639	97.3919
GBR-NTB-22	21.202	9399.61	1.94094	10.669	0.87195	3.12624	1.22263	0.2472	0.80718	0.6602	1424.01	10.3133	1439.17	9.40603	1461.63	17.4531	1461.63	17.4531	97.4262
GBR-NTB-22	114.468	142074	1.0866	17.8076	0.89755	0.51914	1.11783	0.0678	0.66624	0.59601	422.864	2.72687	424.577	3.87876	433.868	20.0057	422.864	2.72687	97.4637
GBR-NTB-22	572.881	170785	6.37657	13.2224	0.44192	1.80885	0.86663	0.17506	0.74545	0.86017	1039.94	7.15928	1048.66	5.66688	1066.89	8.87998	1066.89	8.87998	97.4737
GBR-NTB-22	81.6738	19559.1	4.35314	8.99385	0.73634	4.70355	0.94455	0.31131	0.58693	0.62139	1747.17	8.98245	1767.87	7.90938	1792.4	13.4763	1792.4	13.4763	97.4766
GBR-NTB-22	37.7615	295045	1.45996	12.4203	1.30477	2.17323	1.45827	0.19752	0.65124	0.44659	1161.97	6.92443	1172.51	10.1411	1192.01	25.7708	1192.01	25.7708	97.4796
GBR-NTB-22	374.765	84545.7	6.11024	13.2005	0.45059	1.8084	0.98037	0.17505	0.87031	0.88774	1039.85	8.35777	1048.5	6.41005	1066.58	9.06483	1066.58	9.06483	97.4945
GBR-NTB-22	168.119	310394	2.59836	13.4169	0.54829	1.74171	0.86219	0.1707	0.66539	0.77175	1015.99	6.25452	1024.1	5.56149	1041.43	11.0843	1041.43	11.0843	97.5574
GBR-NTB-22	467.691	277413	5.66152	13.3379	0.4435	1.7647	0.82124	0.17224	0.69118	0.84163	1024.44	6.54673	1032.58	5.32264	1049.88	8.95827	1049.88	8.95827	97.5769
GBR-NTB-22	106.465	115376	2.33267	13.633	0.54956	1.63395	0.7902	0.16345	0.56733	0.71795	975.905	5.13787	983.382	4.97739	1000.09	11.1507	1000.09	11.1507	97.5815
GBR-NTB-22	312.946	73281.6	3.0037	13.3862	0.57727	1.72603	1.47606	0.16968	1.35742	0.91962	1010.34	12.6939	1018.27	9.48997	1035.34	11.7316	1035.34	11.7316	97.5856
GBR-NTB-22	91.4226	55948.3	2.12609	9.84911	0.53093	3.87837	0.90764	0.28023	0.73452	0.80926	1592.51	10.3644	1609.19	7.32701	1631.07	9.90829	1631.07	9.90829	97.6357
GBR-NTB-22	236.962	153766	1.26041	10.5261	0.37357	3.32115	0.79121	0.2565	0.69742	0.88146	1471.89	9.17763	1486.04	6.17472	1506.27	7.05924	1506.27	7.05924	97.717
GBR-NTB-22	499.498	1042834	5.96731	9.0575	0.38827	4.72539	0.88458	0.31254	0.79481	0.89852	1753.22	12.2006	1771.75	7.41321	1793.65	7.07006	1793.65	7.07006	97.7455
GBR-NTB-22	190.842	182127	3.73094	12.0599	0.56622	2.34606	1.26084	0.20764	1.12652	0.89347	1216.21	12.4861	1226.36	8.97649	1244.24	11.0927	1244.24	11.0927	97.7478
GBR-NTB-22	362.301	367996	1.07181	9.95943	0.44767	3.8154	0.87465	0.27791	0.7514	0.85908	1580.81	10.5339	1596	7.0369	1616.1	8.33492	1616.1	8.33492	97.8163
GBR-NTB-22	433.407	67220.9	3.52545	13.2848	0.43612	1.77432	0.95177	0.17306	0.84589	0.88876	1028.96	8.04477	1036.1	6.18078	1051.23	8.81113	1051.23	8.81113	97.8816
GBR-NTB-22	92.112	85215.4	1.27019	6.34094	0.431	9.52002	2.13429	0.44276	2.09028	0.97938	2363.01	41.3528	2389.48	19.6137	2412.12	7.32457	2412.12	7.32457	97.9639
GBR-NTB-22	97.4076	52097.7	3.32039	13.4218	0.72918	1.71856	1.32105	0.16941	1.09882	0.83178	1008.85	10.2616	1015.49	8.47978	1029.8	14.8443	1029.8	14.8443	97.9657
GBR-NTB-22	186.361	87461.7	1.77977	9.65015	0.51935	4.11588	3.17883	0.29021	3.13595	0.98651	1642.57	45.472	1657.46	25.9737	1676.36	9.61518	1676.36	9.61518	97.9841
GBR-NTB-22	164.714	102924	8.08218	13.3412	0.60228	1.75946	0.79082	0.17215	0.51171	0.64706	1023.93	4.8446	1030.65	5.11995	1044.97	12.1803	1044.97	12.1803	97.9864
GBR-NTB-22	309.217	75668.3	3.35967	13.5174	0.4242	1.69074	0.67713	0.16757	0.52596	0.77676	998.686	4.86607	1005.04	4.32026	1018.92	8.63529	1018.92	8.63529	98.0146
GBR-NTB-22	468.809	120721	3.61714	10.5868	0.39196	3.32813	0.73584	0.25733	0.62261	0.84612	1476.18	8.21448	1487.67	5.7454	1504.09	7.41156	1504.09	7.41156	98.1444
GBR-NTB-22	30.4013	8110.07	2.63223	13.3292	1.16928	1.66902	1.66145	0.16621	0.87034	0.52384	991.195	7.99628	996.814	10.5498	1009.18	28.684	1009.18	28.684	98.2179
GBR-NTB-22	183.981	187268	2.17239	9.93621	0.51716	3.84878	0.85054	0.27986	0.67524	0.79389	1590.64	9.51808	1603.01	6.85526	1619.29	9.62534	1619.29	9.62534	98.2309
GBR-NTB-22	46.2885	53702.6	3.15771	13.1176	1.18931	1.85874	1.41297	0.17878	0.76245	0.53961	1060.3	7.45442	1066.54	9.32864	1079.3	23.8712	1079.3	23.8712	98.2404
GBR-NTB-22	236.345	142095	3.12835	9.89167	0.42132	3.87856	0.77365	0.28114	0.64881	0.83863	1597.11	9.17835	1609.23	6.24542	1625.11	7.83665	1625.11	7.83665	98.277
GBR-NTB-22	170.509	333684	3.60704	7.97644	0.43595	6.16775	0.98631	0.36018	0.88474	0.89702	1983.01	15.1026	1999.89	8.61785	2017.36	7.72957	2017.36	7.72957	98.2969
GBR-NTB-22	43.4551	16445.1	2.11294	9.69344	0.64943	3.98896	0.97104	0.28573	0.70057	0.72146	1620.18	10.0364	1631.95	7.88365	1647.14	12.4716	1647.14	12.4716	98.3627
GBR-NTB-22	218.993	108017	2.04735	11.8652	0.57357	2.46249	0.83722	0.21462	0.60951	0.72802	1253.41	6.94287	1261.09	6.04588	1274.21	11.195	1274.21	11.195	98.3675
GBR-NTB-22	52.7788	109488	1.8414	14.2506	0.89051	1.42428	1.07676	0.14895	0.60509	0.56195	895.097	5.05694	899.157	6.42346	909.13	18.3434	909.13	18.3434	98.4565
GBR-NTB-22	188.615	93333	2.86582	11.7459	0.50827	2.55076	0.8045	0.2195	0.62349	0.775	1279.24	7.23439	1286.65	5.86825	1299.04	9.88264	1299.04	9.88264	98.4761
GBR-NTB-22	91.9623	24054.1	5.04789	13.1265	0.83068	1.8325	1.31714	0.17727	1.02063	0.77488	1052.02	9.90686	1057.18	8.65262	1067.86	16.719	1067.86	16.719	98.516
GBR-NTB-22	94.2315	57162.6	3.47703	13.2981	0.79787	1.79732	1.08421	0.17498	0.732	0.67514	1039.47	7.02713	1044.49	7.07349	1055.02	16.1274	1055.02	16.1274	98.5264
GBR-NTB-22	166.564	385694	3.90487	11.8213	0.89519	2.52553	1.12731	0.21819	0.68517	0.60779	1272.32	7.91124	1279.41	8.19997	1291.32	17.4195	1291.32	17.4195	98.5286
GBR-NTB-22	98.2265	40830.5	4.86392	13.607	0.80019	1.64461	1.18317	0.16473	0.86481	0.73093	983.017	7.88482	987.484	7.47113	997.407	16.3856	997.407	16.3856	98.5573
GBR-NTB-22	257.044	1206341	3.53341	17.5797	0.77938	0.57856	1.05515	0.07436	0.71127	0.67409	462.399	3.17371	463.533	3.92673	469.132	17.2612	462.399	3.17371	98.5648
GBR-NTB-22	529.681	85856.7	2.95438	13.1908	0.45918	1.83798	0.8847	0.17768	0.75546	0.85392	1054.26	7.34739	1059.14	5.81783	1069.22	9.23343	1069.22	9.23343	98.6017
GBR-NTB-22	62.1554	9874.76	1.36068	17.4267	1.26824	0.5162	1.61394	0.0676	0.69731	0.43206	421.688	2.84637	422.612	5.57936	427.636	32.4565	421.688	2.84637	98.6092
GBR-NTB-22	454.745	245612	2.12381	11.2081	0.3089	2.89986	0.89262	0.23767	0.83746	0.9382	1374.58	10.367	1381.88	6.73954	1393.15	5.92589	1393.15	5.92589	98.667
GBR-NTB-22	90.7423	73413	4.10604	13.4724	0.66106	1.71979	0.97859	0.16991	0.72091	0.73668	1011.63	6.7495	1015.95	6.28315	1025.24	13.3885	1025.24	13.3885	98.6721
GBR-NTB-22	389.501	78734.4	4.30978	13.0295	0.54909	1.8947	1.06338	0.18138	0.91015	0.8559	1074.51	9.00808	1079.23	7.06745	1088.76	11.038	1088.76	11.038	98.691
GBR-NTB-22	374.316	124599	1.50447	9.75504	0.52213	4.02539	0.9371	0.28768	0.77806	0.83028	1629.95	11.2057	1639.34	7.62192	1651.39	9.68188	1651.39	9.68188	98.7018
GBR-NTB-22	180.128	62481.1	3.36482	13.7016	0.50947	1.62223	1.50326	0.16328	1.41287	0.93987	974.97	12.784	978.856	9.4432	987.564	10.4469	987.564	10.4469	98.7248
GBR-NTB-22	147.163	116516	3.72226	5.51477	0.46048	12.3963	0.79559	0.50056	0.64876	0.81544	2616.21	13.951	2634.9	7.47544	2649.27	7.63829	2649.27	7.63829	98.7523
GBR-NTB-22	271.467	32254.2	1.08481	17.8403	0.70464	0.49506	1.19537	0.06527	0.96421	0.80662	407.607	3.8085	408.354	4.01915	412.557	15.7963	407.607	3.8085	98.8001
GBR-NTB-22	53.8611	98968.2	2.39906	13.1774	0.68025	1.83881	0.94817	0.17788	0.66049	0.69659	1055.36	6.42981	1059.44	6.2362	1067.87	13.6563	1067.87	13.6563	98.8283
GBR-NTB-22	63.1618	50316.8	1.70988	9.80618	0.69849	3.96278	0.88099	0.28538	0.53562	0.60798	1618.4	7.666	1626.61	7.14307	1637.23	12.9901	1637.23	12.9901	98.8496
GBR-NTB-22	61.4228	27860.7	3.47948	13.288	0.82077	1.77135	1.08556	0.17348	0.70586	0.65023	1031.23	6.72668	1035.01	7.04536	1043.03	16.6596	1043.03	16.6596	98.8683
GBR-NTB-22	260.13	801207	1.52719	13.8934	0.57333	1.57499	1.11498	0.16007	0.95628	0.85767	957.166	8.50604	960.396	6.92476	967.817	11.7201	967.817	11.7201	98.8995
GBR-NTB-22	123.456	138611	2.2129	13.3238	0.57838	1.77235	0.78771	0.17357	0.53462	0.6787	1031.75	5.0972	1035.38	5.11332	1043.08	11.6904	1043.08	11.6904	98.914
GBR-NTB-22	127.029	161445	1.23618	13.1161	0.62729	1.87986	0.84313	0.18058	0.56324	0.66803	1070.16	5.55378	1074.01	5.58835	1081.86	12.5659	1081.86	12.5659	98.9182
GBR-NTB-22	267.65	52808.6	5.94089	13.6322	0.48648	1.65219	0.76899	0.16546	0.59196	0.76978	987.034	5.41748	990.392	4.8642	997.818	9.97111	997.818	9.97111	98.9193
GBR-NTB-22	248.714	682111	2.49074	10.8213	0.59159	3.15876	1.38581	0.25046	1.25319	0.9043	1440.83	16.1808	1447.14	10.6881	1456.41	11.2513	1456.41	11.2513	98.9304
GBR-NTB-22	474.944	4737523	4.5011	13.4667	0.42933	1.7295	0.86612	0.17073	0.75223	0.8685	1016.11	7.07152	1019.57	5.57251	1026.97	8.68356	1026.97	8.68356	98.9431
GBR-NTB-22	172.317	68227.9	2.24478	11.5778	0.5168	2.65708	0.95433	0.22558	0.80086	0.83919	1311.31	9.50257	1316.61	7.04051	1325.23	10.0494	1325.23	10.0494	98.95
GBR-NTB-22	108.554	94002.8	1.35044	9.78714	0.45864	4.01319	0.62324	0.28756	0.42166	0.67656	1629.32	6.07068	1636.87	5.06598	1646.57	8.51296	1646.57	8.51296	98.9527
GBR-NTB-22	229.303	1.2E+07	3.54459	12.9312	0.5755	1.96321	0.8227	0.18592	0.58791	0.71461	1099.22	5.94152	1102.98	5.53454	1110.39	11.5136	1110.39	11.5136	98.9945
GBR-NTB-22	382.648	130546	5.94128	12.5183	0.43862	2.15709	0.86702	0.19775	0.74768	0.86236	1163.21	7.9576	1167.34	6.01514	1175.01	8.70353	1175.01	8.70353	98.9956
GBR-NTB-22	306.131	418133	3.17605	9.03235	0.49904	4.81821	0.85449	0.31804	0.69362	0.81174	1780.14	10.7893	1788.08	7.18525	1797.35	9.08315	1797.35	9.08315	99.0424
GBR-NTB-22	74.735	80435.4	0.97536	9.76562	0.45978	4.0328	0.76846	0.28849	0.61529	0.80067	1633.95	8.88054	1640.83	6.25251	1649.64	8.5363	1649.64	8.5363	99.049
GBR-NTB-22	103.668	77560.8	2.45917	12.3018	0.76783	2.23823	1.00677	0.20257	0.65057	0.6462	1189.09	7.06434	1193.1	7.06583	1200.37	15.1388	1200.37	15.1388	99.0601
GBR-NTB-22	91.3631	69081.6	4.31667	13.8336	0.8468	1.58701	1.07814	0.161	0.6665	0.61819	962.353	5.95825	965.122	6.71569	971.454	17.3048	971.454	17.3048	99.0632
GBR-NTB-22	53.3334	50585.5	2.40027	12.7703	0.78121	2.02061	1.04805	0.18954	0.69837	0.66635	1118.87	7.17332	1122.46	7.11882	1129.42	15.5524	1129.42	15.5524	99.0656
GBR-NTB-22	325.752	94038.4	1.49429	13.2611	0.43118	1.81292	1.05956	0.17635	0.9671	0.91273	1046.99	9.3459	1050.13	6.93399	1056.7	8.7165	1056.7	8.7165	99.0811
GBR-NTB-22	104.331	68182.6	3.14342	10.5571	0.55477	3.35825	0.82773	0.25984	0.61404	0.74184	1489.01	8.16402	1494.72	6.47626	1502.81	10.4909	1502.81	10.4909	99.0815
GBR-NTB-22	360.592	2507811	5.18101	13.4352	0.40557	1.75167	0.68012	0.1723	0.54597	0.80275	1024.77	5.17289	1027.78	4.39619	1034.18	8.1929	1034.18	8.1929	99.0899
GBR-NTB-22	77.908	150042	2.35825	5.32002	0.44353	13.2862	0.69172	0.51693	0.53078	0.76734	2686.13	11.6601	2700.21	6.53203	2710.74	7.31723	2710.74	7.31723	99.0921
GBR-NTB-22	167.945	80511.5	3.16013	12.6593	0.40326	2.08212	0.61265	0.19333	0.46036	0.75143	1139.38	4.80792	1142.93	4.20246	1149.66	8.02781	1149.66	8.02781	99.106
GBR-NTB-22	115.355	39601.4	29.0016	13.2294	0.59921	1.80466	0.85656	0.17583	0.60119	0.70186	1044.18	5.79542	1047.15	5.59638	1053.36	12.3109	1053.36	12.3109	99.1283
GBR-NTB-22	107.231	70347.7	2.99601	13.2101	0.63931	1.82442	0.99469	0.17713	0.76065	0.76471	1051.28	7.37852	1054.28	6.5241	1060.51	12.8984	1060.51	12.8984	99.1291
GBR-NTB-22	69.5278	64843.1	14.9886	9.14352	0.52676	4.65496	0.90216	0.31239	0.73171	0.81107	1752.48	11.2278	1759.19	7.5406	1767.15	9.6409	1767.15	9.6409	99.1698
GBR-NTB-22	51.8212	177304	1.9294	11.2653	0.66369	2.86895	0.95172	0.23666	0.68211	0.71671	1369.31	8.41484	1373.8	7.16602	1380.76	12.7531	1380.76	12.7531	99.1708
GBR-NTB-22	119.912	76096.4	2.92106	9.84559	0.43152	3.97391	0.71655	0.28635	0.57099	0.79687	1623.26	8.19383	1628.88	5.813	1636.14	8.04071	1636.14	8.04071	99.2128
GBR-NTB-22	440.58	159396	156.005	12.641	0.40984	2.08989	0.80495	0.19388	0.69272	0.86058	1142.38	7.25199	1145.49	5.52818	1151.37	8.12131	1151.37	8.12131	99.2195
GBR-NTB-22	112.754	66070.9	1.51778	8.088	0.45461	6.05938	0.88229	0.3589	0.75613	0.85702	1976.97	12.8737	1984.42	7.68969	1992.18	8.08221	1992.18	8.08221	99.2365
GBR-NTB-22	197.638	247184	2.29872	9.83635	0.41636	3.96154	0.75606	0.28592	0.63107	0.83469	1621.1	9.04535	1626.35	6.12966	1633.14	7.73673	1633.14	7.73673	99.2633
GBR-NTB-22	69.2925	74272.1	2.44317	12.1221	0.77763	2.37958	1.13868	0.21083	0.8316	0.73032	1233.22	9.33419	1236.48	8.14099	1242.15	15.2299	1242.15	15.2299	99.2816
GBR-NTB-22	128.912	243597	1.23812	10.7942	0.57999	3.20308	1.59376	0.25299	1.48447	0.93143	1453.85	19.3215	1457.9	12.3331	1463.79	11.0198	1463.79	11.0198	99.321
GBR-NTB-22	119.965	76031.1	3.77652	9.23288	0.36681	4.58355	0.95416	0.31005	0.88037	0.92266	1740.93	13.4314	1746.28	7.95341	1752.67	6.73415	1752.67	6.73415	99.3302
GBR-NTB-22	103.857	65587.9	2.89451	10.9462	0.62121	3.07371	0.98974	0.24696	0.76949	0.77747	1422.76	9.82403	1426.16	7.58282	1431.22	11.8789	1431.22	11.8789	99.4093
GBR-NTB-22	155.047	167658	2.08908	17.9733	0.8905	0.50113	1.14648	0.06602	0.72206	0.62981	412.126	2.88267	412.469	3.88625	414.369	19.904	412.126	2.88267	99.4587
GBR-NTB-22	70.736	45181.8	1.99069	10.6267	0.65965	3.32258	0.93954	0.25869	0.66549	0.70831	1483.15	8.81709	1486.37	7.33308	1490.96	12.5553	1490.96	12.5553	99.4764
GBR-NTB-22	398.07	252659	5.68234	13.4932	0.4897	1.73935	1.0014	0.17171	0.87348	0.87225	1021.52	8.25169	1023.22	6.4563	1026.85	9.90608	1026.85	9.90608	99.4812
GBR-NTB-22	134.716	59715.6	4.85138	11.776	0.71096	2.56391	0.92733	0.22118	0.59375	0.64028	1288.09	6.93245	1290.41	6.77403	1294.24	13.8551	1294.24	13.8551	99.5246
GBR-NTB-22	184.414	193431	1.75789	12.5222	0.57195	2.17605	0.75451	0.1993	0.49201	0.6521	1171.56	5.27077	1173.41	5.24902	1176.85	11.3138	1176.85	11.3138	99.5506
GBR-NTB-22	138.866	23144.5	4.36119	12.1501	0.60879	2.32256	0.77331	0.20789	0.47652	0.61622	1217.57	5.28702	1219.21	5.48884	1222.08	11.9781	1222.08	11.9781	99.6307
GBR-NTB-22	60.5095	25480.3	2.66668	13.3228	0.75315	1.78343	1.04314	0.17475	0.71932	0.68957	1038.25	6.89789	1039.43	6.78664	1041.91	15.2646	1041.91	15.2646	99.6487

GBR-NTB-22	65.4458	86624.4	2.44054	13.1096	0.91625	1.89307	1.31629	0.18193	0.94501	0.71794	1077.49	9.37696	1078.66	8.74579	1080.99	18.3817	1080.99	18.3817	99.6763
GBR-NTB-22	308.908	486650	3.22472	11.2576	0.39727	2.89947	0.78732	0.23873	0.67974	0.86336	1380.1	8.44483	1381.77	5.94424	1384.34	7.6298	1384.34	7.6298	99.6935
GBR-NTB-22	136.826	529510	2.95286	10.9067	0.5519	3.12309	0.70843	0.24972	0.44417	0.62697	1437.02	5.72141	1438.39	5.44872	1440.4	10.5191	1440.4	10.5191	99.7654
GBR-NTB-22	148.953	274363	2.20762	10.6667	0.47331	3.31564	0.7048	0.25872	0.52223	0.74096	1483.31	6.91965	1484.74	5.49824	1486.77	8.96515	1486.77	8.96515	99.7672
GBR-NTB-22	233.906	179276	5.37095	12.8494	0.58475	2.01494	0.87834	0.18972	0.65536	0.74613	1119.85	6.73695	1120.56	5.96047	1121.94	11.6791	1121.94	11.6791	99.8141
GBR-NTB-22	47.0039	251760	3.22947	5.29049	0.42419	13.5514	0.65329	0.52399	0.49684	0.76052	2716.1	11.0123	2718.88	6.17764	2720.94	6.99112	2720.94	6.99112	99.8222
GBR-NTB-22	53.6356	34634.4	0.85784	13.2365	0.79712	1.82959	1.03506	0.17792	0.65837	0.63607	1055.61	6.4106	1056.13	6.79565	1057.24	16.0992	1057.24	16.0992	99.8459
GBR-NTB-22	97.4632	693144	2.50841	10.5073	0.68522	3.44665	0.93263	0.26476	0.63267	0.67837	1514.16	8.5378	1515.1	7.34028	1516.41	12.9263	1516.41	12.9263	99.8517
GBR-NTB-22	459.732	140125	7.41892	13.4841	0.40989	1.72485	0.92648	0.17095	0.83087	0.8968	1017.35	7.81965	1017.83	5.955	1018.85	8.30051	1018.85	8.30051	99.8532
GBR-NTB-22	155.245	69999.4	2.53324	9.00879	0.46546	4.85193	0.7993	0.32063	0.6497	0.81283	1792.79	10.1683	1793.95	6.72916	1795.28	8.4764	1795.28	8.4764	99.8608
GBR-NTB-22	104.945	57540.4	2.01756	9.74499	0.65018	4.08348	0.86505	0.29176	0.56908	0.65786	1650.31	8.28582	1651.01	7.05585	1651.88	12.0749	1651.88	12.0749	99.905
GBR-NTB-22	265.181	341630	1.76659	11.9306	0.41452	2.48545	1.12883	0.21731	1.04997	0.93014	1267.63	12.0829	1267.8	8.17362	1268.08	8.07375	1268.08	8.07375	99.9649
GBR-NTB-22	38.0341	78237.7	6.39424	9.07719	0.77669	4.80321	0.97556	0.31908	0.59023	0.60502	1785.25	9.20392	1785.46	8.19889	1785.69	14.1563	1785.69	14.1563	99.9751
GBR-NTB-22	182.544	127879	1.91142	10.5542	0.57355	3.3972	0.77041	0.26272	0.51427	0.66752	1503.72	6.89741	1503.75	6.04368	1503.78	10.8408	1503.78	10.8408	99.996
GBR-NTB-22	124.368	112021	1.80302	12.7851	0.52805	2.05158	0.77233	0.19212	0.56324	0.72926	1132.86	5.85147	1132.82	5.27233	1132.73	10.5279	1132.73	10.5279	100.012
GBR-NTB-22	187.084	2781358	2.19699	13.3477	0.43573	1.79908	0.86164	0.17603	0.74335	0.86271	1045.25	7.17266	1045.12	5.62337	1044.87	8.80758	1044.87	8.80758	100.037
GBR-NTB-22	198.389	715307	1.81147	13.7776	0.56253	1.64011	0.9799	0.16533	0.80234	0.81881	986.323	7.33803	985.753	6.18111	984.465	11.4429	984.465	11.4429	100.189
GBR-NTB-22	37.7544	230468	19.9678	13.5276	1.20511	1.73053	1.439	0.17154	0.78639	0.54648	1020.57	7.4226	1019.95	9.26048	1018.59	24.4044	1018.59	24.4044	100.195
GBR-NTB-22	83.8456	1E+07	3.22906	11.6184	0.58301	2.67365	0.86076	0.22766	0.63326	0.73569	1322.24	7.57028	1321.2	6.36101	1319.5	11.2986	1319.5	11.2986	100.207
GBR-NTB-22	181.463	182766	2.31648	8.85666	0.45242	5.09347	0.73028	0.32976	0.57323	0.78494	1837.24	9.16381	1835.02	6.19832	1832.48	8.19992	1832.48	8.19992	100.26
GBR-NTB-22	223.905	1002561	3.47279	13.3377	0.4055	1.8208	0.77557	0.17763	0.66112	0.85243	1054.03	6.42852	1052.97	5.08329	1050.81	8.18977	1050.81	8.18977	100.306
GBR-NTB-22	117.127	92869.2	3.97056	13.2323	0.82367	1.85224	1.19388	0.1797	0.86409	0.72377	1065.31	8.48488	1064.23	7.87245	1062.02	16.5641	1062.02	16.5641	100.31
GBR-NTB-22	147.532	73921.9	2.9716	16.5597	0.74847	0.78787	1.00953	0.09591	0.6754	0.66902	590.367	3.81022	589.961	4.51721	588.377	16.2771	590.367	3.81022	100.338
GBR-NTB-22	240.221	95826	2.40953	13.3514	0.4599	1.80119	1.09962	0.17636	0.99868	0.9082	1047.07	9.65183	1045.89	7.17953	1043.44	9.30481	1043.44	9.30481	100.348
GBR-NTB-22	114.391	141125	1.99141	13.2272	0.58396	1.85327	0.85245	0.1798	0.62102	0.72851	1065.86	6.10093	1064.59	5.62213	1062.02	11.7487	1062.02	11.7487	100.361
GBR-NTB-22	207.973	129271	2.90343	10.5507	0.38058	3.39848	0.64017	0.26322	0.51461	0.80386	1506.29	6.91249	1504.04	5.02238	1500.86	7.19891	1500.86	7.19891	100.362
GBR-NTB-22	91.9374	52505.5	1.35082	10.2698	0.57557	3.6186	0.9249	0.273	0.72294	0.78164	1556.01	9.99439	1553.63	7.35807	1550.38	10.8352	1550.38	10.8352	100.363
GBR-NTB-22	307.962	531831	21.3676	16.2548	0.74693	0.87785	0.92571	0.10443	0.54684	0.59073	640.341	3.33336	639.823	4.39409	638.015	16.0697	640.341	3.33336	100.365
GBR-NTB-22	139.863	33265.1	4.04106	13.5725	0.61819	1.68	1.12707	0.1682	0.94158	0.83542	1002.21	8.73958	1000.98	7.17399	998.285	12.5681	998.285	12.5681	100.393
GBR-NTB-22	133.454	112205	1.45906	9.27423	0.44339	4.58778	0.78314	0.31196	0.64545	0.82419	1750.32	9.89365	1747.05	6.52888	1743.12	8.12493	1743.12	8.12493	100.413
GBR-NTB-22	97.045	23567.4	4.44378	12.6545	0.67067	2.10058	0.96717	0.19544	0.69674	0.72039	1150.76	7.34288	1149	6.65326	1145.67	13.3284	1145.67	13.3284	100.444
GBR-NTB-22	34.934	20373.2	0.92766	11.5074	0.84291	2.69609	1.11307	0.22908	0.71601	0.64328	1329.67	8.60289	1327.39	8.2443	1323.68	16.508	1323.68	16.508	100.453
GBR-NTB-22	160.13	64026.8	1.81953	9.8198	0.49337	4.0207	1.16613	0.29002	1.05631	0.90582	1641.63	15.3088	1638.39	9.48257	1634.22	9.17838	1634.22	9.17838	100.454
GBR-NTB-22	86.5759	101116	3.04156	10.0055	0.44837	3.8599	0.71085	0.28343	0.55134	0.7756	1608.59	7.84886	1605.34	5.73275	1601.05	8.37201	1601.05	8.37201	100.471
GBR-NTB-22	180.077	76344	2.59784	13.3818	0.38391	1.78725	0.78902	0.17553	0.68854	0.87265	1042.51	6.62771	1040.83	5.13725	1037.27	7.80061	1037.27	7.80061	100.506
GBR-NTB-22	202.664	40755.9	1.77713	17.2192	0.66321	0.64484	0.90663	0.08162	0.61151	0.67449	505.758	2.97455	505.297	3.60903	503.198	14.7196	505.758	2.97455	100.509
GBR-NTB-22	178.99	51581.6	3.80435	13.8053	0.5156	1.62531	0.77724	0.16448	0.58125	0.74784	981.605	5.29239	980.047	4.88587	976.578	10.5047	976.578	10.5047	100.515
GBR-NTB-22	329.649	747191	2.31737	10.6031	0.42142	3.40036	0.91335	0.26352	0.81032	0.88719	1507.8	10.8944	1504.48	7.16658	1499.79	7.96831	1499.79	7.96831	100.535
GBR-NTB-22	89.7592	30368.3	2.57372	12.7772	0.68604	2.02863	0.96994	0.1911	0.67493	0.69584	1127.34	6.9806	1125.16	6.5969	1120.96	13.9108	1120.96	13.9108	100.569
GBR-NTB-22	334.444	68856.7	8.67894	17.5313	0.72358	0.59143	1.32597	0.07601	1.11041	0.83744	472.242	5.05636	471.779	5.00358	469.509	16.0385	472.242	5.05636	100.582
GBR-NTB-22	79.0833	58779.9	1.00641	13.6057	0.6712	1.69688	0.88358	0.16949	0.57325	0.64878	1009.27	5.35553	1007.36	5.64509	1003.17	13.6394	1003.17	13.6394	100.608
GBR-NTB-22	43.7157	11104.8	1.21313	12.0395	0.80382	2.3608	1.03999	0.2109	0.65889	0.63356	1233.63	7.39788	1230.83	7.41793	1225.9	15.7944	1225.9	15.7944	100.63
GBR-NTB-22	20.1095	64370.6	5.57051	9.8903	0.82508	3.97771	1.07867	0.28854	0.69389	0.64328	1634.21	10.0164	1629.66	8.75254	1623.77	15.3625	1623.77	15.3625	100.643
GBR-NTB-22	135.029	74544.4	4.85637	12.5718	0.50383	2.16678	0.87577	0.1996	0.71557	0.81707	1173.19	7.67539	1170.45	6.08446	1165.36	10.023	1165.36	10.023	100.672
GBR-NTB-22	69.2997	34266.3	3.30004	13.9596	0.89192	1.53271	1.16083	0.15797	0.72627	0.62565	945.502	6.38704	943.586	7.13312	939.136	18.5442	939.136	18.5442	100.678
GBR-NTB-22	162.739	68237.8	2.58915	11.372	0.51263	2.82948	0.75795	0.23625	0.55708	0.73498	1367.17	6.86276	1363.38	5.68646	1357.43	9.90861	1357.43	9.90861	100.718
GBR-NTB-22	634.102	1349015	5.25812	17.9576	0.46099	0.51768	0.85058	0.068	0.71482	0.8404	424.079	2.93385	423.601	2.94595	420.977	10.2906	424.079	2.93385	100.737
GBR-NTB-22	73.3137	28110.7	1.47626	13.2603	0.72361	1.81183	0.97647	0.17731	0.61802	0.63291	1052.27	6.00019	1049.74	6.38882	1044.49	15.2699	1044.49	15.2699	100.746
GBR-NTB-22	129.37	448524	3.57308	13.2904	0.60926	1.83986	1.00223	0.17917	0.79578	0.79401	1062.44	7.79476	1059.81	6.59314	1054.42	12.2914	1054.42	12.2914	100.761
GBR-NTB-22	71.4665	47911	1.51591	11.3652	0.67826	2.84561	0.93053	0.23712	0.63159	0.67874	1371.72	7.80391	1367.65	6.99162	1361.28	13.1672	1361.28	13.1672	100.767
GBR-NTB-22	327.281	133343	2.62728	12.0637	0.47257	2.44951	0.76652	0.21606	0.60333	0.78711	1261.02	6.91024	1257.28	5.52687	1250.87	9.25397	1250.87	9.25397	100.811
GBR-NTB-22	110.692	1130787	3.31599	13.1006	0.63166	1.91968	0.9271	0.18442	0.67861	0.73198	1091.06	6.8114	1087.96	6.18946	1081.73	12.6531	1081.73	12.6531	100.862
GBR-NTB-22	91.6407	42450.8	3.14097	13.4258	0.59505	1.76784	0.87125	0.17445	0.62893	0.72187	1036.57	6.02216	1033.73	5.65041	1027.69	12.1929	1027.69	12.1929	100.864
GBR-NTB-22	259.861	164677	2.23242	9.78339	0.44512	4.09847	0.78065	0.29376	0.64123	0.82141	1660.29	9.38582	1654	6.37194	1646	8.25909	1646	8.25909	100.868
GBR-NTB-22	118.724	63096.6	2.10726	9.84861	0.36149	4.03435	0.76628	0.29125	0.67479	0.8806	1647.77	9.8116	1641.15	6.23525	1632.66	6.74734	1632.66	6.74734	100.925
GBR-NTB-22	123.883	29876.4	1.83985	13.0411	0.5709	1.93246	1.00869	0.18529	0.81439	0.80738	1095.83	8.20703	1092.39	6.7495	1085.57	11.9189	1085.57	11.9189	100.945
GBR-NTB-22	72.3477	400603	2.01221	9.21978	0.50708	4.7311	0.71564	0.31816	0.50498	0.70564	1780.74	7.85732	1772.76	5.99867	1763.36	9.26831	1763.36	9.26831	100.985
GBR-NTB-22	130.174	33799.2	1.35926	13.5716	0.69831	1.70168	1.01352	0.17003	0.73434	0.72455	1012.3	6.87949	1009.16	6.48202	1002.34	14.1622	1002.34	14.1622	100.994
GBR-NTB-22	116.469	73120	0.98235	16.4325	0.82925	0.82227	1.08929	0.09935	0.70629	0.64839	610.603	4.11468	609.315	4.9909	604.511	17.9307	610.603	4.11468	101.008
GBR-NTB-22	156.822	72008.3	1.37532	12.9546	0.51931	1.99216	0.75251	0.18914	0.54454	0.72364	1116.69	5.58334	1112.85	5.08726	1105.38	10.3894	1105.38	10.3894	101.023
GBR-NTB-22	115.748	698363	2.65559	11.706	0.49974	2.6633	0.79614	0.22793	0.61976	0.77845	1323.65	7.41602	1318.34	5.87724	1309.69	9.69902	1309.69	9.69902	101.065
GBR-NTB-22	130.339	170827	3.9001	12.8549	0.58809	2.03951	0.93385	0.19216	0.7254	0.77679	1133.04	7.53733	1128.8	6.36258	1120.62	11.7298	1120.62	11.7298	101.108
GBR-NTB-22	270.314	533848	2.80151	13.9152	0.4257	1.60081	0.7536	0.16308	0.62184	0.82517	973.881	5.62074	970.528	4.7098	962.962	8.70151	962.962	8.70151	101.134
GBR-NTB-22	54.6378	31839.5	2.25113	12.8867	0.66177	1.99607	0.98906	0.18951	0.73355	0.74167	1118.72	7.53377	1114.18	6.69087	1105.36	13.2612	1105.36	13.2612	101.208
GBR-NTB-22	198.058	2E+08	3.15946	9.9111	0.37553	4.04165	0.70087	0.2921	0.59177	0.84434	1652.01	8.62397	1642.62	5.70501	1630.6	6.97995	1630.6	6.97995	101.313
GBR-NTB-22	167.87	915713	2.91478	12.7733	0.60484	2.08247	1.22419	0.19497	1.06433	0.86942	1148.25	11.1947	1143.05	8.39787	1133.17	12.0431	1133.17	12.0431	101.331
GBR-NTB-22	94.6405	77219.1	2.45468	13.1339	0.56133	1.90343	0.75773	0.1837	0.50792	0.67032	1087.14	5.08128	1082.29	5.04399	1072.57	11.2762	1072.57	11.2762	101.358
GBR-NTB-22	598.971	1606073	2.68992	16.8461	0.5491	0.74107	1.24779	0.09153	1.12048	0.89797	564.556	6.05665	563.03	5.39287	556.887	11.9861	564.556	6.05665	101.377
GBR-NTB-22	110.597	84542.6	2.61171	13.1622	0.64737	1.90356	0.87721	0.18372	0.59178	0.67462	1087.25	5.92084	1082.34	5.83948	1072.47	13.0073	1072.47	13.0073	101.378
GBR-NTB-22	307.663	255513	5.32798	13.1268	0.7713	1.94044	1.35369	0.1861	1.11245	0.82179	1100.23	11.252	1095.15	9.07085	1085.05	15.4459	1085.05	15.4459	101.399
GBR-NTB-22	90.3133	34854.7	1.613	9.75072	0.51064	4.11749	0.73613	0.2953	0.52116	0.70798	1667.96	7.65923	1657.78	6.01404	1644.89	9.64536	1644.89	9.64536	101.402
GBR-NTB-22	36.0278	14778.3	4.25715	9.75561	0.58491	4.10398	0.89317	0.29503	0.65054	0.72835	1666.62	9.55387	1655.1	7.29236	1640.48	11.361	1640.48	11.361	101.593
GBR-NTB-22	99.0272	24827.1	2.01494	13.6131	0.70386	1.69406	1.08135	0.16985	0.78772	0.72846	1011.31	7.37288	1006.29	6.90435	995.363	15.0365	995.363	15.0365	101.602
GBR-NTB-22	56.069	17862.5	1.63191	13.2337	0.6441	1.82287	0.89955	0.17857	0.62394	0.69361	1059.18	6.09424	1053.72	5.89825	1042.4	13.0951	1042.4	13.0951	101.609
GBR-NTB-22	68.5959	27597	2.61243	14.0028	0.7869	1.53958	0.93496	0.15894	0.4619	0.49404	950.877	4.08357	946.335	5.75528	935.762	16.6528	935.762	16.6528	101.615
GBR-NTB-22	167.444	63496.4	2.58052	13.2818	0.65143	1.8523	0.97452	0.18057	0.72451	0.74345	1070.06	7.14342	1064.25	6.42602	1052.36	13.1509	1052.36	13.1509	101.682
GBR-NTB-22	90.5055	74206.1	2.01047	12.252	0.55631	2.35939	0.93154	0.21173	0.74654	0.80141	1238.02	8.40908	1230.4	6.64318	1217.07	10.9565	1217.07	10.9565	101.721
GBR-NTB-22	275.32	389720	3.03552	13.3491	0.57093	1.83063	1.02411	0.17918	0.8502	0.83018	1062.52	8.32831	1056.5	6.72513	1044.12	11.5368	1044.12	11.5368	101.762
GBR-NTB-22	138.749	90715.9	0.8898	16.3143	0.70506	0.86671	1.13361	0.10373	0.88765	0.78303	636.222	5.3777	633.781	5.34436	625.062	15.223	636.222	5.3777	101.785
GBR-NTB-22	160.197	65727.4	2.27275	13.489	0.57137	1.76291	0.96791	0.17466	0.77966	0.80551	1037.76	7.47332	1031.92	6.27097	1019.55	11.6145	1019.55	11.6145	101.786
GBR-NTB-22	623.597	192387	3.71622	17.838	0.60013	0.53524	1.00521	0.07006	0.80629	0.80211	436.532	3.40317	435.282	3.55846	428.653	13.3823	436.532	3.40317	101.838
GBR-NTB-22	162.028	69939.5	5.45422	18.0547	0.91111	0.49359	1.39232	0.06541	1.05261	0.75601	408.465	4.16615	407.352	4.67203	401.027	20.416	408.465	4.16615	101.855
GBR-NTB-22	297.209	56858.6	1.12311	18.035	0.56402	0.4999	0.78629	0.06613	0.54202	0.68933	412.823	2.16743	411.635	2.66095	404.955	12.752	412.823	2.16743	101.943
GBR-NTB-22	94.2624	67799.6	2.07761	13.8372	0.62934	1.6345	0.90396	0.16602	0.64768	0.71649	990.142	5.94474	983.596	5.69472	969.024	12.867	969.024	12.867	102.179
GBR-NTB-22	127.663	45093.3	2.05183	9.83891	0.57274	4.09326	0.86233	0.29564	0.64458	0.74749	1669.64	9.48139	1652.96	7.03692	1631.81	10.6437	1631.81	10.6437	102.318
GBR-NTB-22	30.4325	15630.3	1.46655	13.3833	0.65092	1.78042	0.8837	0.17623	0.59194	0.66984	1046.33	5.71711	1038.33	5.74581	1021.52	13.2809	1021.52	13.2809	102.428
GBR-NTB-22	29.8177	32115.2	10.579	13.5179	1.43252	1.73518	1.63139	0.17321	0.78005	0.47815	1029.79	7.42413	1021.68	10.509	1004.31	29.0741	1004.31	29.0741	102.537
GBR-NTB-22	96.8495	92740.2	2.78079	12.6437	0.6026	2.17298	0.88386	0.20143	0.64602	0.7309	1183.02	6.98229	1172.43	6.14622	1152.91	11.9671	1152.91	11.9671	102.612
GBR-NTB-22	98.2766	36151.3	2.60155	10.626	0.50482	3.4147	0.81778	0.26672	0.64298	0.78626	1524.11	8.72746	1507.78	6.42278	1484.9	9.57357	1484.9	9.57357	102.64
GBR-NTB-22	118.074	45733.3	2.94946	13.1472	0.73071	1.91808	1.56633	0.18548	1.38541	0.88449	1096.85	13.9735	1087.4	10.4544	1068.53	14.6793	1068.53	14.6793	102.651
GBR-NTB-22	103.729	126222	2.24577	10.9088	0.60964	3.22683	0.92894	0.25795	0.70082	0.75443	1479.34	9.26395	1463.63	7.20087	1440.89	11.6206	1440.89	11.6206	102.669
GBR-NTB-22	101.59	82847.1	3.10859	13.0227	0.55921	1.99052	0.7719	0.19022	0.53187	0.68904	1122.57	5.47967	1112.3	5.21692	1092.29	11.2113	1092.29	11.2113	102.773

GBR-NTB-22	106.047	221143	2.49856	12.7025	0.51673	2.16558	0.92794	0.20123	0.77073	0.83058	1181.92	8.32312	1170.06	6.44577	1148.19	10.2648	1148.19	10.2648	102.938
GBR-NTB-22	101.921	45127.4	2.91136	12.9196	0.6541	2.03256	0.97957	0.19301	0.72895	0.74415	1137.66	7.60243	1126.47	6.66661	1104.98	13.0813	1104.98	13.0813	102.958
GBR-NTB-22	152.298	389391	3.05556	10.8818	0.48078	3.27021	0.82616	0.26035	0.67185	0.81323	1491.64	8.94666	1473.99	6.4243	1448.66	9.15338	1448.66	9.15338	102.966
GBR-NTB-22	65.2762	21307.9	1.73246	10.8106	0.69129	3.25956	1.01162	0.25993	0.73489	0.72645	1489.5	9.7736	1471.46	7.86047	1445.5	13.2414	1445.5	13.2414	103.044
GBR-NTB-22	117.367	63533.6	2.37211	11.6532	0.66606	2.75566	0.96733	0.23475	0.70042	0.72407	1359.37	8.58441	1343.62	7.20697	1318.6	12.9326	1318.6	12.9326	103.092
GBR-NTB-22	69.1604	19369.4	1.95873	17.4475	1.26408	0.58434	1.5299	0.07557	0.77557	0.50694	469.651	3.51296	467.246	5.72948	455.465	29.2674	469.651	3.51296	103.115
GBR-NTB-22	87.386	13088.1	3.90093	16.661	0.91739	0.73576	1.02316	0.09134	0.45136	0.44114	563.43	2.43512	559.926	4.40373	545.689	20.0634	563.43	2.43512	103.251
GBR-NTB-22	135.283	78638.4	1.45699	13.6464	0.70595	1.74636	0.92312	0.17447	0.59441	0.64391	1036.68	5.69216	1025.82	5.96028	1002.69	14.3178	1002.69	14.3178	103.391
GBR-NTB-22	168.655	315966	2.72357	13.4687	0.51938	1.83414	0.99364	0.18048	0.84708	0.8525	1069.61	8.34873	1057.77	6.52943	1033.37	10.5142	1033.37	10.5142	103.507
GBR-NTB-22	92.9534	72293.6	2.03141	12.7015	0.60215	2.16293	0.88832	0.20155	0.65278	0.73485	1183.66	7.05886	1169.21	6.1682	1142.57	11.9629	1142.57	11.9629	103.596
GBR-NTB-22	78.1958	23477.4	2.15611	12.7987	0.66066	2.09254	0.88512	0.1973	0.56257	0.63559	1160.81	5.97618	1146.36	6.08127	1119.15	13.6307	1119.15	13.6307	103.723
GBR-NTB-22	150.517	26950.3	1.88704	13.7595	0.66489	1.67279	0.97473	0.16959	0.71252	0.731	1009.88	6.66031	998.247	6.19434	972.799	13.5536	972.799	13.5536	103.812
GBR-NTB-22	14.1347	13058.2	3.45547	9.88526	0.95611	4.03569	1.2413	0.2956	0.76514	0.6164	1669.45	11.2536	1641.42	10.1013	1605.69	18.2248	1605.69	18.2248	103.971
GBR-NTB-22	61.4557	63345.8	3.46407	13.62	0.85211	1.75567	1.06961	0.1755	0.64645	0.60438	1042.34	6.22165	1029.25	6.91952	1001.52	17.3028	1001.52	17.3028	104.075
GBR-NTB-22	20.2821	4628.36	1.08986	13.1194	1.28523	1.7747	2.0116	0.17698	0.81228	0.4038	1050.45	7.87364	1036.24	13.0649	1006.36	37.3598	1006.36	37.3598	104.381
GBR-NTB-22	26.8417	11080.8	4.60027	13.3875	1.0681	1.78057	2.09086	0.1775	1.57006	0.75092	1053.31	15.2572	1038.39	13.5958	1007.09	27.993	1007.09	27.993	104.59
GBR-NTB-22	31.9932	7830.05	2.81963	13.5247	1.09373	1.67624	1.31879	0.17028	0.72288	0.54814	1013.68	6.78062	999.557	8.38737	968.711	22.5021	968.711	22.5021	104.642
GBR-NTB-22	79.9257	42464	2.71209	13.7729	0.85174	1.69422	1.1001	0.17167	0.68903	0.62633	1021.3	6.50794	1006.36	7.02437	973.933	17.5051	973.933	17.5051	104.864
GBR-NTB-22	123.074	17963.5	1.44037	17.7872	0.80437	0.52645	0.98551	0.06952	0.51893	0.52656	433.254	2.17441	429.451	3.45118	409.076	18.7428	433.254	2.17441	105.91
GBR-NTB-22	121.49	13272.8	1.05554	17.7357	0.84543	0.52614	1.17674	0.0696	0.73007	0.62042	433.745	3.06247	429.247	4.11927	405.149	20.6601	433.745	3.06247	107.058
GBR-NTB-22	78.1589	65549.3	1.9817	18.2054	1.14809	0.49292	1.37343	0.06585	0.75181	0.5474	411.079	2.99407	406.897	4.60446	383.209	25.8306	411.079	2.99407	107.273
GBR-NTB-22	341.282	21023.4	2.70017	18.4314	0.63951	0.42325	1.1486	0.05774	0.91942	0.80047	361.897	3.23569	358.369	3.46828	335.569	15.6016	361.897	3.23569	107.846
GBR-NTB-22	122.221	10671.5	2.3903	17.8189	0.97244	0.50765	1.2943	0.06775	0.80156	0.6193	422.567	3.27848	416.868	4.42519	385.429	22.8283	422.567	3.27848	109.635
GBR-NTB-22	154.591	20834.1	1.12952	17.9396	0.94231	0.52168	1.45289	0.06944	1.09208	0.75166	432.762	4.57095	426.275	5.05764	391.322	21.5036	432.762	4.57095	110.59
GBR-NTB-22	114.393	11312.7	2.14033	17.588	0.98862	0.59525	1.7447	0.07832	0.85008	0.48724	486.077	3.98012	474.215	6.61039	417.208	34.0365	486.077	3.98012	116.507
GBR-NTB-22	178.952	15911.5	2.96549	17.8168	0.81442	0.55895	1.02854	0.07425	0.61808	0.60093	461.72	2.754	450.841	3.74451	395.71	18.4342	461.72	2.754	116.681

GBR-COV1-22

Sample	206Pb	U/Th	206Pb*	Â±	207Pb*	Â±	206Pb*	Â±	error	206Pb*	Â±	207Pb*	Â±	206Pb*	Â±	Best age	Â±	Conc
	204Pb		207Pb*	(%)	235U	(%)	238U	(%)	corr.	238U	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)
GBR-COV1-22	6648.05	2.81669	12.6675	5.50311	0.46308	7.57134	0.04407	5.01035	0.66175	277.999	13.6327	386.396	24.3373	1100.67	113.638	277.999	13.6327	25.2572
GBR-COV1-22	96169.7	1.99184	10.2527	4.85325	0.95689	5.23065	0.07181	1.95074	0.37294	447.026	8.42481	681.683	25.9762	1560.42	91.0834	1560.42	91.0834	28.6478
GBR-COV1-22	16067.8	1.61754	15.5748	0.79162	0.62276	1.40489	0.07197	1.16021	0.82584	448.01	5.02136	491.573	5.47448	700.018	16.8509	448.01	5.02136	63.9998
GBR-COV1-22	19723	1.66304	16.5717	0.95588	0.5459	1.6228	0.06691	1.3112	0.80799	417.501	5.30078	442.309	5.81879	573.529	20.7927	417.501	5.30078	72.795
GBR-COV1-22	20571.3	3.98124	16.8091	2.11035	0.51046	2.37556	0.06361	1.05139	0.44259	397.521	4.05324	418.761	8.15193	537.505	46.6152	397.521	4.05324	73.9566
GBR-COV1-22	10716.8	2.40738	9.77828	2.11002	3.14982	2.62501	0.22812	1.45405	0.55392	1324.62	17.4107	1444.96	20.2337	1626.75	40.6433	1626.75	40.6433	81.4271
GBR-COV1-22	9340.99	1.46665	15.9244	2.92293	0.69125	3.05033	0.08262	0.86122	0.28233	511.715	4.2366	533.551	12.6598	628.024	63.0507	511.715	4.2366	81.4802
GBR-COV1-22	37008.3	4.33575	17.3302	1.11663	0.50057	1.45083	0.06391	0.9235	0.63653	399.346	3.57603	412.089	4.91428	484.125	24.714	399.346	3.57603	82.4882
GBR-COV1-22	59563.7	4.09029	7.48415	2.00284	5.79615	2.55008	0.31813	1.57844	0.61898	1780.59	24.5582	1945.84	22.0866	2126.57	35.0732	2126.57	35.0732	83.7307
GBR-COV1-22	373072	7.17509	16.3238	1.41427	0.73227	2.7023	0.08749	2.30267	0.85211	540.688	11.9424	557.886	11.5995	628.668	30.4758	540.688	11.9424	86.0053
GBR-COV1-22	98819.3	1.14365	6.23022	0.53501	8.49377	0.97501	0.38807	0.81506	0.83595	2113.88	14.6896	2285.26	8.85748	2442.27	9.06078	2442.27	9.06078	86.5539
GBR-COV1-22	9142.41	3.79882	11.6242	1.37845	2.17268	1.60948	0.1885	0.82938	0.51531	1113.23	8.47972	1172.34	11.1918	1283.16	26.8519	1283.16	26.8519	86.7575
GBR-COV1-22	33069.1	27.8363	11.6031	1.53844	2.29776	1.7723	0.1957	0.86585	0.48855	1152.19	9.1356	1211.6	12.5394	1319.04	29.9743	1319.04	29.9743	87.3507
GBR-COV1-22	32749.4	3.31384	12.6141	0.65172	1.83856	1.05486	0.1708	0.82934	0.78621	1016.51	7.79925	1059.35	6.9376	1148.67	12.929	1148.67	12.929	88.4943
GBR-COV1-22	64846.6	1.3045	13.4478	0.46565	1.53229	1.06747	0.15133	0.95921	0.89858	908.408	8.12746	943.417	6.55873	1026.03	9.47588	1026.03	9.47588	88.5357
GBR-COV1-22	131914	2.57692	5.86458	1.89205	10.1185	2.17212	0.43442	1.06688	0.49117	2325.59	20.8289	2445.66	20.0743	2547.06	31.7055	2547.06	31.7055	91.3049
GBR-COV1-22	79306.7	2.72332	3.26546	0.45555	26.8882	0.96654	0.64171	0.85245	0.88196	3195.73	21.4797	3379.4	9.46243	3490.18	7.04779	3490.18	7.04779	91.5635
GBR-COV1-22	12010.7	3.24739	16.8702	1.5139	0.60469	1.72914	0.0761	0.6888	0.39835	472.78	3.13995	480.206	6.61619	515.799	34.8224	472.78	3.13995	91.6596
GBR-COV1-22	233572	5.46201	17.6361	0.98251	0.5301	3.31105	0.0683	3.16192	0.95496	425.896	13.0313	431.876	11.648	463.879	21.7721	425.896	13.0313	91.8119
GBR-COV1-22	26034	4.46778	8.83993	0.4991	4.57576	0.90567	0.29758	0.75572	0.83444	1679.31	11.1726	1744.86	7.54687	1824.33	9.05271	1824.33	9.05271	92.0509
GBR-COV1-22	101813	2.55595	17.0537	0.76001	0.63975	1.03419	0.07988	0.70094	0.67777	495.433	3.34262	502.149	4.09699	532.892	16.6638	495.433	3.34262	92.9707
GBR-COV1-22	6956.34	0.67795	12.8558	1.31962	1.72559	1.59371	0.16685	0.87963	0.55194	994.709	8.10811	1018.11	10.2454	1068.8	26.7122	1068.8	26.7122	93.068
GBR-COV1-22	60136.1	4.94248	10.7257	0.4569	3.03254	1.05661	0.23869	0.95269	0.90165	1379.87	11.8342	1415.85	8.06829	1470.37	8.67436	1470.37	8.67436	93.8451
GBR-COV1-22	171601	3.48265	10.2818	0.498	3.38081	1.24371	0.25438	1.13961	0.9163	1461.01	14.8978	1499.96	9.74602	1555.41	9.34916	1555.41	9.34916	93.9307
GBR-COV1-22	71587.8	2.23241	13.0173	0.88845	1.80758	1.16819	0.17278	0.75726	0.64823	1027.44	7.192	1048.2	7.63687	1091.76	17.7973	1091.76	17.7973	94.1087
GBR-COV1-22	329863	3.2154	14.122	0.58676	1.41232	1.1052	0.14617	0.93657	0.84743	879.486	7.69986	894.133	6.57013	930.544	12.0245	930.544	12.0245	94.5131
GBR-COV1-22	87516	1.93619	12.4455	0.86532	2.08413	1.07959	0.1902	0.64507	0.59751	1122.48	6.64548	1143.6	7.4078	1183.88	17.1067	1183.88	17.1067	94.814
GBR-COV1-22	17313.9	2.07781	17.8716	1.05552	0.45726	1.29568	0.06063	0.59344	0.45802	379.465	2.1869	382.349	4.12814	399.829	25.8086	379.465	2.1869	94.9068
GBR-COV1-22	61982.4	2.607	12.4581	0.76096	2.06836	1.4173	0.18943	1.1946	0.84287	1118.29	12.2646	1138.39	9.70119	1176.93	15.0853	1176.93	15.0853	95.0176
GBR-COV1-22	56708.5	1.49807	9.74104	0.62592	3.87103	1.60865	0.2762	1.48149	0.92095	1572.18	20.669	1607.66	12.9814	1654.44	11.6142	1654.44	11.6142	95.0278
GBR-COV1-22	60359.9	1.31641	11.348	1.34322	2.66782	1.59462	0.22242	0.85933	0.53889	1294.65	10.0793	1319.59	11.7775	1360.3	25.8865	1360.3	25.8865	95.1737
GBR-COV1-22	62112.8	2.92389	12.3215	0.68365	2.15343	0.97481	0.19458	0.69263	0.71052	1146.15	7.27286	1166.16	6.75936	1203.5	13.527	1203.5	13.527	95.235
GBR-COV1-22	101169	3.32598	13.1863	0.75789	1.76508	1.07764	0.17083	0.76607	0.71088	1016.67	7.20532	1032.72	6.98502	1066.87	15.2373	1066.87	15.2373	95.2948
GBR-COV1-22	582449	5.61221	13.7811	1.05977	1.54616	1.67839	0.15615	1.3015	0.77544	935.357	11.3317	948.962	10.3492	980.676	21.567	980.676	21.567	95.3787
GBR-COV1-22	126154	6.32398	5.30575	0.6149	12.7376	1.10935	0.4944	0.92333	0.83232	2589.7	19.6921	2660.44	10.4446	2714.67	10.1404	2714.67	10.1404	95.3966
GBR-COV1-22	510028	0.9699	10.4482	0.52541	3.31018	0.85909	0.25318	0.67969	0.79117	1454.84	8.85202	1483.46	6.69932	1524.59	9.90046	1524.59	9.90046	95.4253
GBR-COV1-22	30302.6	2.81107	10.2787	0.88653	3.39292	1.48223	0.25686	1.17643	0.79369	1473.74	15.4985	1502.76	11.6248	1543.9	16.95	1543.9	16.95	95.456
GBR-COV1-22	2902964	4.53527	9.23359	0.5126	4.38755	0.95813	0.29677	0.80948	0.84485	1675.28	11.9422	1710	7.92307	1752.77	9.38144	1752.77	9.38144	95.5788
GBR-COV1-22	22380.9	2.60217	11.2457	0.81966	2.73567	1.13943	0.22627	0.79014	0.69345	1314.9	9.39843	1338.2	8.47272	1375.65	15.7874	1375.65	15.7874	95.5839
GBR-COV1-22	267456	3.14854	14.0962	0.69329	1.449	1.21721	0.14938	1.00046	0.82193	897.471	8.38188	909.457	7.31277	938.691	14.1931	938.691	14.1931	95.6087
GBR-COV1-22	161981	3.86915	9.12676	0.52532	4.50716	1.11569	0.30127	0.98426	0.8822	1697.61	14.6899	1732.29	9.27169	1774.43	9.58707	1774.43	9.58707	95.671
GBR-COV1-22	1978402	4.14011	12.6794	0.45907	2.01257	0.78823	0.1866	0.64076	0.8129	1102.94	6.49569	1119.76	5.34691	1152.52	9.0941	1152.52	9.0941	95.6987
GBR-COV1-22	49432	0.22918	9.3743	1.58574	4.23452	1.99884	0.29134	1.21688	0.60879	1648.22	17.698	1680.74	16.42	1721.56	29.1334	1721.56	29.1334	95.7399
GBR-COV1-22	24200.3	1.75451	13.0168	0.5852	1.82766	0.96119	0.17518	0.76245	0.79324	1040.6	7.32687	1055.44	6.30833	1086.26	11.7146	1086.26	11.7146	95.7966
GBR-COV1-22	298463	2.19498	5.4151	0.42197	12.3483	0.78029	0.48938	0.65634	0.84116	2568	13.9025	2631.25	7.3295	2680.27	6.981	2680.27	6.981	95.8115
GBR-COV1-22	142022	1.93281	17.4319	0.91049	0.58113	1.201	0.07429	0.78309	0.65203	461.944	3.49086	465.187	4.4821	481.249	20.1191	461.944	3.49086	95.9884
GBR-COV1-22	159923	11.1443	6.91152	0.8247	7.95311	1.17855	0.40232	0.84191	0.71436	2179.7	15.5707	2225.72	10.6305	2268.33	14.2182	2268.33	14.2182	96.0925
GBR-COV1-22	4.3E+07	45.5702	12.8747	0.60052	1.94256	1.21583	0.18266	1.05718	0.86951	1081.48	10.5255	1095.88	8.15009	1124.59	11.988	1124.59	11.988	96.1659
GBR-COV1-22	67177.7	2.82608	17.9059	0.78281	0.48643	1.30877	0.06403	1.04878	0.80134	400.116	4.06874	402.472	4.3488	415.996	17.4938	400.116	4.06874	96.1827
GBR-COV1-22	185181	2.11531	17.8265	0.65743	0.51657	1.0805	0.06737	0.8574	0.79352	420.285	3.48856	422.856	3.73699	436.88	14.6386	420.285	3.48856	96.2013
GBR-COV1-22	78123.6	2.49167	9.2544	0.39847	4.41596	0.68812	0.29896	0.56095	0.8152	1686.15	8.32266	1715.34	5.69701	1751.14	7.29558	1751.14	7.29558	96.289
GBR-COV1-22	90334.9	0.89629	17.5193	0.78589	0.57155	1.07597	0.07335	0.7347	0.68283	456.28	3.23641	459.016	3.97337	472.737	17.3892	456.28	3.23641	96.5189
GBR-COV1-22	38764.7	1.61844	9.86714	0.48902	3.82454	0.81809	0.27655	0.65498	0.80061	1573.96	9.14698	1597.92	6.58509	1629.66	9.11058	1629.66	9.11058	96.5821
GBR-COV1-22	8076.93	2.13025	17.3987	0.95024	0.50047	1.17039	0.06565	0.67941	0.5805	409.882	2.69809	412.018	3.9638	423.984	21.2648	409.882	2.69809	96.674
GBR-COV1-22	24805.2	2.01895	17.5104	1.02639	0.53763	1.34264	0.06973	0.86109	0.64134	434.541	3.61847	436.86	4.76677	449.079	22.8883	434.541	3.61847	96.7628
GBR-COV1-22	44755	3.53196	12.7686	0.72896	1.96541	1.05957	0.18456	0.76092	0.71814	1091.83	7.64244	1103.74	7.13074	1127.27	14.6907	1127.27	14.6907	96.8559
GBR-COV1-22	42175.2	2.48489	12.5096	0.62816	2.08446	0.96899	0.1918	0.73773	0.76134	1131.1	7.65335	1143.7	6.64919	1167.67	12.4615	1167.67	12.4615	96.8679
GBR-COV1-22	227299	2.30598	11.4098	0.52339	2.70967	1.17123	0.22632	1.04776	0.89458	1315.18	12.4652	1331.11	8.68686	1356.82	10.0918	1356.82	10.0918	96.9312
GBR-COV1-22	338382	3.17615	10.4917	0.52778	3.33628	2.13154	0.25623	2.06516	0.96886	1470.51	27.1539	1489.58	16.6536	1516.82	9.95546	1516.82	9.95546	96.9471
GBR-COV1-22	39433.7	3.20816	13.1531	0.5702	1.80426	0.87261	0.1745	0.6605	0.75693	1036.88	6.32619	1047	5.70078	1068.21	11.4489	1068.21	11.4489	97.0672
GBR-COV1-22	110645	3.30005	9.02446	0.51041	4.69628	0.89314	0.31042	0.73289	0.82057	1742.76	11.1916	1766.58	7.47687	1794.83	9.2939	1794.83	9.2939	97.0989
GBR-COV1-22	141694	3.1146	10.4121	0.62799	3.43153	0.97907	0.26071	0.75111	0.76716	1493.49	10.0131	1511.65	7.69817	1537.15	11.8165	1537.15	11.8165	97.1596
GBR-COV1-22	67556.1	5.57427	12.6812	0.58205	2.0211	1.08521	0.18821	0.91458	0.84277	1111.67	9.33872	1122.63	7.37177	1143.87	11.6103	1143.87	11.6103	97.1848
GBR-COV1-22	3067645	1.41411	9.71169	0.47832	4.01258	0.92395	0.28535	0.7905	0.85557	1618.27	11.3131	1636.75	7.51014	1660.56	8.85468	1660.56	8.85468	97.4534
GBR-COV1-22	101139	6.28961	10.6328	0.49402	3.24395	0.76548	0.25268	0.58435	0.76338	1452.27	7.59837	1467.73	5.94115	1490.15	9.36143	1490.15	9.36143	97.4583
GBR-COV1-22	50287.2	7.17137	16.8322	0.64529	0.70695	2.56001	0.08741	2.47733	0.9677	540.229	12.8378	542.936	10.7661	554.3	14.0856	540.229	12.8378	97.4614
GBR-COV1-22	71294.4	2.17	13.5201	0.72415	1.69123	1.02708	0.16731	0.72756	0.70838	997.288	6.7225	1005.23	6.55381	1022.56	14.673	1022.56	14.673	97.5288
GBR-COV1-22	353842	4.46807	9.19817	0.53193	4.53566	0.91735	0.30538	0.74739	0.81472	1717.91	11.271	1737.53	7.63213	1761.23	9.72496	1761.23	9.72496	97.5404
GBR-COV1-22	61117.7	4.4982	12.8208	0.56786	1.97366	0.95059	0.1857	0.76124	0.8008	1098.03	7.6855	1106.56	6.40634	1123.36	11.3682	1123.36	11.3682	97.7456
GBR-COV1-22	1480197	1.74744	9.76105	0.59018	4.0074	1.1254	0.28563	0.95824	0.85146	1619.67	13.7241	1635.7	9.14534	1656.35	10.9318	1656.35	10.9318	97.786
GBR-COV1-22	11643.8	1.11421	17.1138	0.99091	0.59169	1.22079	0.07566	0.70852	0.58037	470.14	3.21245	471.945	4.60797	480.713	21.9545	470.14	3.21245	97.8005
GBR-COV1-22	63780.9	0.96849	11.8129	0.65828	2.49731	1.03846	0.21604	0.80217	0.77247	1260.92	9.18704	1271.25	7.52947	1288.75	12.8378	1288.75	12.8378	97.841
GBR-COV1-22	106087	4.06499	5.25567	0.55048	13.3736	0.95851	0.5138	0.78466	0.81862	2672.81	17.1681	2706.4	9.05572	2731.56	9.06068	2731.56	9.06068	97.8494
GBR-COV1-22	512068	2.88766	9.22308	0.466	4.54747	1.03289	0.30639	0.92179	0.89244	1722.92	13.9365	1739.7	8.59742	1759.92	8.52096	1759.92	8.52096	97.8978
GBR-COV1-22	62395.3	0.58481	9.38823	0.57553	4.35128	1.01149	0.29913	0.83112	0.82169	1687	12.3365	1703.14	8.35141	1723.04	10.59	1723.04	10.59	97.9083
GBR-COV1-22	140815	2.21621	10.2134	0.60547	3.5927	0.94604	0.26873	0.72681	0.76827	1534.36	9.92408	1547.92	7.51452	1566.46	11.3487	1566.46	11.3487	97.9505
GBR-COV1-22	38335.3	2.80049	12.6921	0.76482	2.03509	1.03093	0.18964	0.6911	0.67036	1119.4	7.10171	1127.32	7.01907	1142.63	15.196	1142.63	15.196	97.9665
GBR-COV1-22	20519.8	1.50147	13.0021	0.98628	1.87447	1.25092	0.17965	0.70926	0.56699	1065.04	6.96289	1072.11	8.28307	1086.52	20.6363	1086.52	20.6363	98.0233
GBR-COV1-22	127262	0.84549	9.82684	0.59896	3.93822	1.07647	0.28327	0.89428	0.83075	1607.81	12.7255	1621.57	8.71708	1639.46	11.1248	1639.46	11.1248	98.0692
GBR-COV1-22	252912	2.08121	9.88958	0.50455	3.87429	0.86534	0.28068	0.70301	0.81242	1594.77	9.93231	1608.34	6.984	1626.14	9.38206	1626.14	9.38206	98.0712
GBR-COV1-22	148901	6.21165	12.6654	0.51392	2.0742	1.06171	0.19209	0.92903	0.87503	1132.71	9.6505	1140.32	7.27381	1154.82	10.1939	1154.82	10.1939	98.0851
GBR-COV1-22	215315	3.89273	9.21464	0.43326	4.53913	0.698	0.30641	0.54723	0.784	1723.03	8.27396	1738.17	5.80791	1756.42	7.92642	1756.42	7.92642	98.0991
GBR-COV1-22	167823	2.52697	10.8705	0.53964	3.10296	1.04251	0.24689	0.89192	0.85555	1422.44	11.3848	1433.42	8.00566	1449.75	10.2741	1449.75	10.2741	98.1159
GBR-COV1-22	72076.5	2.52784	11.7827	0.63935	2.51787	0.971	0.21742	0.73063	0.75245	1268.24	8.41153	1277.2	7.05684	1292.31	12.442	1292.31	12.442	98.1371
GBR-COV1-22	116575	2.33926	12.399	0.477	2.19778	0.96524	0.19948	0.83901	0.86922	1172.51	8.99468	1180.34	6.73611	1194.74	9.41575	1194.74	9.41575	98.1396
GBR-COV1-22	60893.4	2.65012	17.0194	1.25566	0.67204	1.72453	0.08403	1.18161	0.68518	520.132	5.90455	521.949	7.03808	529.929	27.5134	520.132	5.90455	98.1514
GBR-COV1-22	161065	1.20145	8.68321	0.54343	5.18183	0.92087	0.32903	0.7434	0.80728	1833.7	11.8644	1849.64	7.83798	1867.59	9.80768	1867.59	9.80768	98.1856
GBR-COV1-22	61577.6	4.17587	12.806	0.51441	2.00572	0.98928	0.18799	0.84309	0.85223	1110.49	8.60041	1117.45	6.70312	1131	10.3189	1131	10.3189	98.1866

GBR-COV1-22	26082.9	1.82209	13.2155	0.66238	1.78772	2.28394	0.17414	2.18314	0.95587	1034.87	20.8726	1040.99	14.8729	1053.88	13.5353	1053.88	13.5353	98.1961
GBR-COV1-22	25117	2.50474	18.0346	0.7318	0.45317	0.96089	0.06048	0.62241	0.64774	378.521	2.28812	379.497	3.04262	385.431	16.4448	378.521	2.28812	98.2073
GBR-COV1-22	250196	5.6404	10.9886	0.54361	3.02101	1.1335	0.2431	0.99463	0.87749	1402.77	12.5387	1412.94	8.64726	1428.29	10.3783	1428.29	10.3783	98.2133
GBR-COV1-22	169147	1.51317	5.35823	0.58855	12.9727	0.96194	0.50856	0.76087	0.79098	2650.48	16.5353	2677.67	9.06859	2698.26	9.72089	2698.26	9.72089	98.2291
GBR-COV1-22	73536.4	2.06891	10.5918	0.64644	3.29686	1.08538	0.25604	0.87171	0.80314	1469.57	11.4551	1480.31	8.45611	1495.72	12.2341	1495.72	12.2341	98.2515
GBR-COV1-22	63141.7	1.83633	10.1063	0.55857	3.71726	0.98889	0.27445	0.81477	0.82392	1563.37	11.311	1575.09	7.91265	1590.81	10.4702	1590.81	10.4702	98.2752
GBR-COV1-22	2803696	3.49383	11.8976	0.52128	2.48223	0.8996	0.21569	0.73318	0.81501	1259.06	8.38565	1266.87	6.51135	1280.13	10.1481	1280.13	10.1481	98.3543
GBR-COV1-22	256322	4.04379	14.1286	0.60077	1.48638	0.89217	0.15346	0.65956	0.73927	920.302	5.65657	924.838	5.41557	935.654	12.3177	935.654	12.3177	98.3593
GBR-COV1-22	32548.2	3.1041	10.5215	0.90537	3.35455	1.32197	0.25891	0.96295	0.72842	1484.27	12.7667	1493.85	10.3409	1507.47	17.1068	1507.47	17.1068	98.4611
GBR-COV1-22	764002	8.61744	8.83084	0.45438	5.00647	0.91679	0.32361	0.79626	0.86854	1807.32	12.5497	1820.42	7.75922	1835.42	8.23178	1835.42	8.23178	98.4688
GBR-COV1-22	639255	3.63394	12.7012	0.44542	2.06628	1.00978	0.19191	0.90623	0.89746	1131.7	9.40603	1137.7	6.90938	1149.15	8.84182	1149.15	8.84182	98.4819
GBR-COV1-22	206203	2.36025	9.19845	0.46949	4.59256	0.98769	0.30912	0.86895	0.87978	1736.35	13.2269	1747.92	8.23575	1761.76	8.58347	1761.76	8.58347	98.5578
GBR-COV1-22	104666	2.83886	10.2554	0.42959	3.57375	0.91968	0.26873	0.81306	0.88407	1534.33	11.1015	1543.72	7.2967	1556.59	8.06632	1556.59	8.06632	98.5704
GBR-COV1-22	28552.4	3.28045	13.3432	0.85899	1.75762	1.04984	0.17238	0.57325	0.54603	1025.22	5.43354	1029.97	6.7944	1040.07	17.7727	1040.07	17.7727	98.5722
GBR-COV1-22	911310	2.57493	5.26848	0.52884	13.4458	1.00464	0.51769	0.85419	0.85024	2689.38	18.7829	2711.48	9.49511	2727.98	8.70662	2727.98	8.70662	98.5852
GBR-COV1-22	209371	2.68435	10.2067	0.52774	3.63364	0.91928	0.27134	0.7527	0.8188	1547.6	10.356	1556.93	7.31988	1569.59	9.88559	1569.59	9.88559	98.5991
GBR-COV1-22	65581.8	2.29993	17.8155	0.74571	0.52073	1.02608	0.0681	0.69933	0.68156	424.712	2.87442	425.64	3.56759	430.648	16.7345	424.712	2.87442	98.6218
GBR-COV1-22	50643.1	3.62069	11.652	0.5124	2.59783	0.77071	0.22218	0.57559	0.74683	1293.38	6.74525	1300.03	5.6506	1311	9.94552	1311	9.94552	98.656
GBR-COV1-22	2631605	4.11953	12.0921	0.52718	2.37577	0.82613	0.21009	0.63606	0.76993	1229.29	7.11868	1235.34	5.90357	1245.9	10.3234	1245.9	10.3234	98.6667
GBR-COV1-22	92313.9	2.07125	10.2721	0.40923	3.58777	0.72227	0.2695	0.5945	0.8231	1538.28	8.13583	1546.83	5.73532	1558.52	7.69568	1558.52	7.69568	98.7014
GBR-COV1-22	9747.26	1.3576	13.3081	1.40877	1.69542	1.58143	0.16831	0.68436	0.43275	1002.79	6.35558	1006.81	10.1006	1015.54	28.8939	1015.54	28.8939	98.7452
GBR-COV1-22	41835.9	3.26466	14.0194	0.69125	1.496	0.97972	0.15435	0.69383	0.70819	925.275	5.98038	928.76	5.96242	937.023	14.1837	937.023	14.1837	98.7462
GBR-COV1-22	69284	4.31316	12.4698	0.9526	2.17577	1.23126	0.19866	0.77929	0.63292	1168.14	8.32607	1173.33	8.56555	1182.93	18.8391	1182.93	18.8391	98.7495
GBR-COV1-22	475063	1.51692	13.2945	0.5517	1.80594	0.85798	0.1757	0.65708	0.76585	1043.46	6.33027	1047.61	5.60708	1056.29	11.1086	1056.29	11.1086	98.7855
GBR-COV1-22	169118	2.04731	17.5239	0.59156	0.58347	1.01567	0.07492	0.82555	0.81281	465.74	3.70929	466.692	3.8001	471.4	13.0984	465.74	3.70929	98.7993
GBR-COV1-22	324727	3.6555	9.7862	0.63719	4.00493	2.00557	0.28707	1.90165	0.94819	1626.86	27.3423	1635.2	16.2968	1645.92	11.8202	1645.92	11.8202	98.8424
GBR-COV1-22	62556.5	1.33936	18.6195	0.75965	0.37513	1.13741	0.05138	0.84335	0.74147	323	2.6569	323.45	3.15055	326.695	17.3455	323	2.6569	98.8692
GBR-COV1-22	55786.5	2.76029	13.5864	0.59279	1.67777	0.91525	0.1672	0.69366	0.75789	996.684	6.40566	1000.13	5.82281	1007.69	12.112	1007.69	12.112	98.908
GBR-COV1-22	1015442	2.05557	10.1294	0.43775	3.72435	0.99646	0.27561	0.89516	0.89834	1569.22	12.468	1576.61	7.97642	1586.51	8.18311	1586.51	8.18311	98.9102
GBR-COV1-22	70618.5	1.88379	10.0165	0.43843	3.78421	0.77257	0.27813	0.63517	0.82215	1581.94	8.91008	1589.4	6.20493	1599.29	8.20768	1599.29	8.20768	98.9156
GBR-COV1-22	174141	1.85512	10.1809	0.47015	3.67538	0.75671	0.27356	0.59291	0.78354	1558.85	8.20996	1566.04	6.04015	1575.72	8.79993	1575.72	8.79993	98.9296
GBR-COV1-22	157675	6.59802	8.82707	0.56788	5.0264	0.91269	0.32512	0.71447	0.78281	1814.7	11.3004	1823.78	7.72968	1834.15	10.2905	1834.15	10.2905	98.9394
GBR-COV1-22	1940011	5.54946	13.2853	0.40271	1.80805	0.85494	0.17594	0.75416	0.88211	1044.78	7.27389	1048.37	5.58954	1055.89	8.10873	1055.89	8.10873	98.9476
GBR-COV1-22	45036.6	4.54542	11.1831	0.70108	2.92353	1.01963	0.23915	0.74001	0.72576	1382.28	9.20665	1388.02	7.71459	1396.83	13.449	1396.83	13.449	98.9585
GBR-COV1-22	372486	1.392	17.9051	0.55127	0.5116	1.1155	0.06713	0.96976	0.86935	418.848	3.93268	419.524	3.8335	423.221	12.302	418.848	3.93268	98.9667
GBR-COV1-22	149888	3.91115	12.7728	0.54938	2.03469	0.85971	0.19034	0.66117	0.76906	1123.2	6.81535	1127.19	5.85291	1134.89	10.9332	1134.89	10.9332	98.9704
GBR-COV1-22	31334.8	3.45421	13.9672	0.7697	1.51059	1.03281	0.15552	0.68227	0.66059	931.843	5.9195	934.678	6.30995	941.36	15.8711	941.36	15.8711	98.989
GBR-COV1-22	254327	2.36845	9.3272	0.45727	4.46888	0.8315	0.30528	0.69447	0.8352	1717.44	10.4705	1725.21	6.89925	1734.64	8.38626	1734.64	8.38626	99.0083
GBR-COV1-22	75016.7	1.1004	9.76357	0.53996	4.03606	0.80047	0.28856	0.59012	0.73722	1634.35	8.51917	1641.49	6.51399	1650.63	10.0267	1650.63	10.0267	99.0137
GBR-COV1-22	80362.2	40.7601	16.1263	0.64003	0.88276	1.05794	0.10457	0.84183	0.79572	641.107	5.13735	642.471	5.03667	647.293	13.7436	641.107	5.13735	99.0443
GBR-COV1-22	1.9E+07	2.98482	10.3949	0.53532	3.51232	0.98127	0.26673	0.82239	0.83808	1524.19	11.1631	1529.99	7.75573	1538	10.071	1538	10.071	99.1017
GBR-COV1-22	72778.3	5.80516	13.4111	0.61111	1.7505	0.94951	0.17223	0.72559	0.76417	1024.39	6.87238	1027.35	6.136	1033.64	12.3926	1033.64	12.3926	99.1052
GBR-COV1-22	545710	1.86536	9.62607	0.43561	4.19374	0.88057	0.29494	0.76527	0.86907	1666.17	11.2362	1672.8	7.21972	1681.1	8.0446	1681.1	8.0446	99.1122
GBR-COV1-22	123541	2.6894	13.213	0.59225	1.85289	1.12287	0.17903	0.95391	0.84953	1061.66	9.3373	1064.46	7.40511	1070.22	11.9027	1070.22	11.9027	99.2002
GBR-COV1-22	65064.5	3.38272	13.3414	0.67688	1.77736	1.02661	0.17409	0.77033	0.75036	1034.61	7.36324	1037.21	6.67091	1042.69	13.712	1042.69	13.712	99.2245
GBR-COV1-22	71267.1	4.0048	11.0706	0.67051	2.99547	1.01786	0.243	0.76468	0.75126	1402.26	9.63672	1406.47	7.74863	1412.84	12.8522	1412.84	12.8522	99.2513
GBR-COV1-22	196674	2.95718	4.55163	0.36047	17.4032	0.90567	0.5789	0.83083	0.91737	2944.25	19.6373	2957.33	8.6965	2966.23	5.81224	2966.23	5.81224	99.2589
GBR-COV1-22	61773.3	1.27426	10.7294	0.66567	3.23735	0.99513	0.25457	0.73933	0.74295	1462	9.67101	1466.15	7.71996	1472.14	12.6415	1472.14	12.6415	99.3114
GBR-COV1-22	247006	2.90809	5.11229	0.51581	14.2359	0.95544	0.53315	0.80424	0.84175	2754.69	18.0289	2765.55	9.06486	2773.48	8.45993	2773.48	8.45993	99.3227
GBR-COV1-22	2922118	2.43908	8.65836	0.4814	5.29482	0.75592	0.3349	0.58281	0.771	1862.07	9.42566	1868.03	6.45626	1874.64	8.68008	1874.64	8.68008	99.3295
GBR-COV1-22	88804.2	3.88844	12.7803	0.62561	2.04232	0.92467	0.19108	0.68047	0.73591	1127.2	7.03713	1129.74	6.30288	1134.63	12.456	1134.63	12.456	99.3447
GBR-COV1-22	16042	0.69432	8.86266	0.82565	4.96073	1.21657	0.32359	0.89145	0.73276	1807.25	14.0496	1812.66	10.2809	1818.86	15.0267	1818.86	15.0267	99.3618
GBR-COV1-22	39468.4	1.75436	17.0825	0.58036	0.66319	1.24901	0.08333	1.09541	0.87702	515.962	5.43162	516.564	5.05702	519.209	13.172	515.962	5.43162	99.3745
GBR-COV1-22	111478	0.88978	9.82855	0.55396	3.99577	1.03535	0.2875	0.87457	0.84471	1629.03	12.5894	1633.34	8.40866	1638.87	10.2891	1638.87	10.2891	99.3991
GBR-COV1-22	99197.5	1.75273	5.30893	0.65984	13.3982	0.9551	0.51993	0.69047	0.72293	2698.89	15.226	2708.13	9.02459	2715.02	10.8819	2715.02	10.8819	99.4061
GBR-COV1-22	57853	3.33611	17.2163	0.9314	0.64454	1.18591	0.08142	0.73386	0.61882	504.589	3.56177	505.113	4.71945	507.511	20.5033	504.589	3.56177	99.4241
GBR-COV1-22	75863.3	2.16074	12.8698	0.49387	1.99555	0.87711	0.18829	0.7242	0.82566	1112.12	7.39748	1114	5.93304	1117.71	9.87334	1117.71	9.87334	99.5
GBR-COV1-22	29425.5	2.125	17.6382	0.75373	0.54237	1.25723	0.07058	0.99999	0.79539	439.648	4.24987	439.986	4.48904	441.735	16.9659	439.648	4.24987	99.5274
GBR-COV1-22	53246.8	3.15998	12.3154	0.52699	2.26923	0.85408	0.20475	0.6688	0.78307	1200.79	7.32732	1202.78	6.01959	1206.36	10.4622	1206.36	10.4622	99.538
GBR-COV1-22	32529.1	3.34257	12.638	0.92388	2.08459	1.21441	0.19381	0.78425	0.64579	1141.99	8.20767	1143.75	8.33349	1147.09	18.4022	1147.09	18.4022	99.5552
GBR-COV1-22	147875	2.2678	5.27191	0.5082	13.5992	0.90991	0.52386	0.75475	0.82949	2715.51	16.726	2722.2	8.60639	2727.16	8.36746	2727.16	8.36746	99.5728
GBR-COV1-22	463118	4.61122	13.0938	0.60273	1.91589	1.00197	0.18333	0.8004	0.79883	1085.12	7.99374	1086.64	6.6848	1089.65	12.0859	1089.65	12.0859	99.5847
GBR-COV1-22	51357.1	2.22965	13.3809	0.46711	1.77168	0.94292	0.17395	0.81883	0.8684	1033.83	7.8214	1035.14	6.11999	1037.88	9.46048	1037.88	9.46048	99.6098
GBR-COV1-22	74023.2	4.25285	13.9914	0.57922	1.53621	0.93235	0.15769	0.72891	0.7818	943.9	6.40022	944.987	5.73428	947.524	11.9131	947.524	11.9131	99.6175
GBR-COV1-22	111324	4.48209	13.0345	0.51991	1.91886	0.89071	0.18358	0.72286	0.81155	1086.48	7.22754	1087.67	5.94568	1090.04	10.4236	1090.04	10.4236	99.6733
GBR-COV1-22	51231.8	2.51575	13.306	0.59804	1.80692	0.93884	0.17634	0.72113	0.76811	1046.97	6.96884	1047.96	6.13674	1050.05	12.135	1050.05	12.135	99.7067
GBR-COV1-22	1148388	4.9057	13.5672	0.537	1.72289	0.89653	0.17077	0.71791	0.80077	1016.33	6.75029	1017.1	5.76006	1018.75	10.8743	1018.75	10.8743	99.7629
GBR-COV1-22	151313	8.93738	13.9368	0.48534	1.57253	0.90569	0.16036	0.76465	0.84428	958.775	6.81213	959.427	5.62148	960.94	9.91911	960.94	9.91911	99.7747
GBR-COV1-22	29726	2.37635	11.0438	0.58871	3.01498	0.92254	0.24458	0.70854	0.76803	1410.46	8.976	1411.42	7.03436	1412.84	11.3028	1412.84	11.3028	99.8317
GBR-COV1-22	31515.1	1.90153	15.0413	0.8769	1.17058	1.11712	0.1298	0.68383	0.61213	786.716	5.06447	786.915	6.11731	787.461	18.5465	786.716	5.06447	99.9054
GBR-COV1-22	585776	5.94923	13.5861	0.51485	1.7172	0.9542	0.17047	0.80338	0.84194	1014.68	7.54258	1014.98	6.12315	1015.61	10.432	1015.61	10.432	99.9082
GBR-COV1-22	229053	2.89387	4.94055	0.58046	15.2369	3.47317	0.55084	3.42432	0.98594	2828.67	78.4103	2830.16	33.1057	2831.22	9.46717	2831.22	9.46717	99.9101
GBR-COV1-22	13375.4	2.26866	17.7679	0.99005	0.48384	1.36854	0.06413	0.94375	0.6896	400.664	3.66615	400.702	4.5311	400.902	22.2034	400.664	3.66615	99.9406
GBR-COV1-22	76525.2	4.17765	13.395	0.59656	1.79065	0.92237	0.17544	0.70331	0.7625	1041.99	6.76685	1042.06	6.0096	1042.19	12.0602	1042.19	12.0602	99.9816
GBR-COV1-22	78159.9	2.64112	13.6248	0.70809	1.67268	1.16841	0.16748	0.92888	0.795	998.212	8.59	998.204	7.42503	998.168	14.3902	998.168	14.3902	100.004
GBR-COV1-22	17351.2	2.46792	13.5159	0.85223	1.67932	1.2182	0.16794	0.86463	0.70976	1000.74	8.01456	1000.72	7.75293	1000.66	17.4162	1000.66	17.4162	100.009
GBR-COV1-22	70791.1	3.1907	11.7102	0.57036	2.61723	0.84122	0.22449	0.61731	0.73382	1305.57	7.29571	1305.49	6.18035	1305.33	11.0981	1305.33	11.0981	100.019
GBR-COV1-22	52652.2	1.296	8.24144	0.57039	5.91552	0.89942	0.35612	0.69378	0.77136	1963.77	11.7446	1963.52	7.81211	1963.23	10.2107	1963.23	10.2107	100.028
GBR-COV1-22	3054661	4.05211	10.5642	0.50712	3.41766	0.8418	0.26368	0.6719	0.79818	1508.64	9.03786	1508.46	6.61271	1508.19	9.57803	1508.19	9.57803	100.03
GBR-COV1-22	213981	1.97944	13.4099	0.59667	1.79485	0.88847	0.17576	0.6583	0.74093	1043.78	6.34375	1043.59	5.79357	1043.2	12.0577	1043.2	12.0577	100.056
GBR-COV1-22	204612	1.78758	9.59223	0.6609	4.25976	0.95836	0.299	0.694	0.72415	1686.36	10.2978	1685.62	7.88109	1684.69	12.2	1684.69	12.2	100.099
GBR-COV1-22	55113.6	3.41054	11.2634	0.58923	2.90186	0.92697	0.23928	0.71378	0.77001	1382.93	8.88404	1382.4	7.00017	1381.55	11.3633	1381.55	11.3633	100.1
GBR-COV1-22	96436.4	4.1877	10.5898	0.51012	3.39012	0.95775	0.26253	0.81042	0.84617	1502.76	10.8633	1502.11	7.50984	1501.19	9.64913	1501.19	9.64913	100.104
GBR-COV1-22	98382.6	3.58703	8.41266	0.41154	5.66883	0.89096	0.3488	0.79012	0.88682	1928.87	13.1718	1926.63	7.69029	1924.21	7.37804	1924.21	7.37804	100.242
GBR-COV1-22	264131	2.91119	12.4838	0.48671	2.21547	1.37754	0.20217	1.28868	0.9355	1186.97	13.9706	1185.94	9.63757	1184.09	9.59961	1184.09	9.59961	100.243
GBR-COV1-22	566555	1.20544	5.19606	0.47247	14.0018	0.86319	0.53317	0.7224	0.8369	2754.77	16.1946	2749.83	8.18059	2746.19	7.76891	2746.19	7.76891	100.312
GBR-COV1-22	70003.6	1.76669	10.6289	0.6812	3.3513	0.97623	0.26106	0.69843	0.71544	1495.26	9.32066	1493.09	7.63458	1490	12.9139	1490	12.9139	100.354
GBR-COV1-22	62441.3	0.67383	13.5435	0.66151	1.71987	1.02471	0.17092	0.78118	0.76234	1017.17	7.35081	1015.98	6.57941	1013.38	13.4405	1013.38	13.4405	100.374
GBR-COV1-22	95984.9	6.89405	10.2642	0.49595	3.64943	0.84066	0.27436	0.67864	0.80728	1562.88	9.41857	1560.38	6.70008	1556.99	9.31035	1556.99	9.31035	100.379
GBR-COV1-22	60330.6	2.79267	12.1301	0.56352	2.37771	0.93952	0.21166	0.75044	0.79875	1237.64	8.45058	1235.92	6.71553	1232.96	11.1084	1232.96	11.1084	100.379
GBR-COV1-22	360767	1.98925	13.2511	0.58863	1.84716	1.20367	0.17941	1.04992	0.87226	1063.75	10.2957	1062.42	7.92939	1059.7	11.8471	1059.7	11.8471	100.382
GBR-COV1-22	24537.1	3.72546	12.5999	0.62044	2.10669	0.93632	0.19576	0.67373	0.71955	1152.52	7.11035	1151	6.44708	1148.12	12.896	1148.12	12.896	100.383

GBR-COV1-22	75636.6	4.75251	12.9514	0.66565	1.97008	1.12825	0.18731	0.91006	0.80662	1106.81	9.25541	1105.34	7.59905	1102.43	13.3552	1102.43	13.3552	100.397
GBR-COV1-22	211312	1.874	5.225	0.45148	13.8848	0.80271	0.53164	0.66371	0.82683	2748.34	14.851	2741.88	7.60318	2737.11	7.42657	2737.11	7.42657	100.41
GBR-COV1-22	25599.8	1.30929	9.9687	0.90134	3.85232	1.44521	0.28303	1.11637	0.77247	1606.6	15.8753	1603.75	11.6507	1600	17.1268	1600	17.1268	100.412
GBR-COV1-22	64554.7	3.73484	10.876	0.58607	3.15524	0.99802	0.25199	0.80773	0.80933	1448.73	10.4802	1446.28	7.69513	1442.67	11.1692	1442.67	11.1692	100.42
GBR-COV1-22	102187	1.20993	8.16598	0.53526	6.01179	2.14965	0.35995	2.08189	0.96848	1981.93	35.5221	1977.55	18.7164	1972.96	9.54328	1972.96	9.54328	100.454
GBR-COV1-22	296086	2.44676	12.7908	0.53839	2.06247	0.92059	0.19313	0.74674	0.81115	1138.29	7.79187	1136.44	6.29534	1132.89	10.7207	1132.89	10.7207	100.476
GBR-COV1-22	70729.4	1.8935	13.5704	0.68636	1.71869	0.94791	0.1709	0.65247	0.68833	1017.07	6.13907	1015.54	6.08471	1012.22	13.9393	1012.22	13.9393	100.478
GBR-COV1-22	99289.6	2.5244	13.6564	0.57883	1.69366	0.83149	0.16922	0.59618	0.717	1007.84	5.56241	1006.14	5.30855	1002.44	11.7653	1002.44	11.7653	100.538
GBR-COV1-22	36980.4	3.60422	13.3829	0.67701	1.79759	1.03351	0.17627	0.77228	0.74724	1046.56	7.46045	1044.59	6.74306	1040.43	13.8815	1040.43	13.8815	100.589
GBR-COV1-22	66667.7	1.82238	12.6071	0.9708	2.15449	1.31402	0.19881	0.88551	0.67389	1168.92	9.46669	1166.5	9.11297	1161.99	19.2453	1161.99	19.2453	100.597
GBR-COV1-22	402620	2.53725	9.98211	0.67098	3.9263	1.00228	0.28639	0.74454	0.74285	1623.45	10.6854	1619.12	8.11129	1613.47	12.4976	1613.47	12.4976	100.619
GBR-COV1-22	77714.4	0.89262	13.3789	0.95538	1.79379	1.27735	0.17606	0.84781	0.66373	1045.43	8.18192	1043.21	8.32778	1038.53	19.3097	1038.53	19.3097	100.664
GBR-COV1-22	21847	3.03916	13.6762	0.84514	1.64987	1.09125	0.16628	0.68518	0.62788	991.56	6.29726	989.503	6.89902	984.938	17.2775	984.938	17.2775	100.672
GBR-COV1-22	32348.5	2.328	14.1494	0.66054	1.48202	1.01673	0.15428	0.75497	0.74255	924.906	6.50493	923.056	6.16435	918.658	14.0177	918.658	14.0177	100.68
GBR-COV1-22	64524.1	3.46686	13.4842	0.61809	1.76367	1.10436	0.17407	0.91375	0.82741	1034.47	8.73307	1032.2	7.15613	1027.37	12.5426	1027.37	12.5426	100.691
GBR-COV1-22	60020.6	1.07967	11.3136	0.76839	2.87567	1.04795	0.23858	0.71123	0.67869	1379.32	8.83167	1375.56	7.89536	1369.71	14.8124	1369.71	14.8124	100.701
GBR-COV1-22	83264.4	3.3376	13.5473	0.61583	1.73223	0.98667	0.17195	0.7708	0.78122	1022.84	7.29045	1020.58	6.35177	1015.71	12.4784	1015.71	12.4784	100.702
GBR-COV1-22	93611.8	4.94374	10.5472	0.35211	3.43367	1.01995	0.26539	0.95686	0.93815	1517.36	12.9369	1512.14	8.02067	1504.81	6.67275	1504.81	6.67275	100.835
GBR-COV1-22	26314.7	4.05773	10.4096	0.70084	3.5055	1.1414	0.26869	0.90082	0.78922	1534.17	12.2987	1528.45	9.01752	1520.53	13.2157	1520.53	13.2157	100.897
GBR-COV1-22	35227.7	1.90246	13.415	0.7452	1.77107	1.15836	0.17472	0.88537	0.76433	1038.05	8.48883	1034.91	7.51745	1028.26	15.1238	1028.26	15.1238	100.952
GBR-COV1-22	20374.2	1.20699	9.33766	0.65978	4.49368	1.03609	0.30929	0.79707	0.76931	1737.22	12.138	1729.81	8.60547	1720.83	12.163	1720.83	12.163	100.953
GBR-COV1-22	1312799	2.22369	7.19554	0.45168	7.83935	0.89857	0.41212	0.7768	0.86448	2224.61	14.6144	2212.74	8.09193	2201.74	7.84454	2201.74	7.84454	101.039
GBR-COV1-22	347113	2.57903	13.2462	0.50653	1.86931	0.83397	0.18128	0.66251	0.79441	1073.95	6.55397	1070.29	5.51679	1062.85	10.1891	1062.85	10.1891	101.045
GBR-COV1-22	59857.7	2.56018	17.8777	0.63532	0.52042	1.10268	0.06834	0.89853	0.81486	426.126	3.70506	425.434	3.83242	421.664	14.2678	426.126	3.70506	101.058
GBR-COV1-22	70229.8	0.80457	5.0925	0.57869	14.665	0.92998	0.54666	0.72794	0.78274	2811.26	16.5857	2793.76	8.84028	2781.13	9.48254	2781.13	9.48254	101.083
GBR-COV1-22	48409.2	3.35193	14.1044	0.77567	1.51393	1.15104	0.15684	0.8444	0.7336	939.217	7.38004	936.027	7.03848	928.546	16.0513	928.546	16.0513	101.149
GBR-COV1-22	50289.8	0.5803	16.6429	0.89783	0.77493	1.14005	0.09482	0.69278	0.60768	583.99	3.86794	582.585	5.05402	577.119	19.6794	583.99	3.86794	101.191
GBR-COV1-22	237413	2.66336	12.3511	0.50305	2.28444	0.79352	0.20698	0.61367	0.77335	1212.71	6.78394	1207.49	5.60416	1198.17	9.92365	1198.17	9.92365	101.214
GBR-COV1-22	81481	4.06157	12.5811	0.54141	2.18181	0.90442	0.20096	0.72321	0.79964	1180.45	7.80114	1175.26	6.29721	1165.68	10.7773	1165.68	10.7773	101.267
GBR-COV1-22	37812.4	3.35196	11.4238	0.83725	2.81888	1.11616	0.23627	0.73174	0.65559	1367.27	9.01508	1360.57	8.36578	1350.03	16.266	1350.03	16.266	101.277
GBR-COV1-22	68265.1	4.56645	13.5175	0.69714	1.75882	0.991	0.17411	0.70269	0.70907	1034.72	6.71738	1030.41	6.41519	1021.27	14.1461	1021.27	14.1461	101.317
GBR-COV1-22	13001.4	3.15763	9.93257	0.8926	3.89452	1.24426	0.28617	0.85181	0.68459	1622.38	12.2178	1612.55	10.0531	1599.71	16.9256	1599.71	16.9256	101.417
GBR-COV1-22	13727.7	2.27868	9.39082	0.74956	4.46292	1.05817	0.30889	0.73337	0.69306	1735.23	11.1569	1724.1	8.77791	1710.6	14.0332	1710.6	14.0332	101.44
GBR-COV1-22	55085.7	3.52729	13.1717	0.65604	1.9039	0.99213	0.18378	0.7406	0.74648	1087.62	7.41204	1082.45	6.60489	1072.09	13.2622	1072.09	13.2622	101.448
GBR-COV1-22	51356	2.22092	16.3291	0.75313	0.85198	0.97488	0.10229	0.61837	0.63431	627.804	3.69913	625.737	4.55384	618.252	16.2881	627.804	3.69913	101.545
GBR-COV1-22	14471.3	3.49052	14.0411	0.8922	1.50126	1.34737	0.15612	0.92251	0.68467	935.183	8.03055	930.9	8.21154	920.79	20.1929	920.79	20.1929	101.563
GBR-COV1-22	95861.4	2.97271	13.1031	0.55085	1.9462	1.01029	0.1866	0.84681	0.83818	1102.94	8.5845	1097.14	6.77656	1085.66	11.0354	1085.66	11.0354	101.593
GBR-COV1-22	90187.9	5.76565	9.19934	0.57897	4.75731	0.9877	0.32017	0.8002	0.81017	1790.54	12.5102	1777.4	8.28714	1761.98	10.5844	1761.98	10.5844	101.621
GBR-COV1-22	74488.6	1.47939	9.74433	0.59822	4.15999	0.84477	0.29738	0.59588	0.70537	1678.33	8.80492	1666.18	6.91542	1650.89	11.101	1650.89	11.101	101.662
GBR-COV1-22	66914.4	3.07563	13.3249	1.00787	1.84749	1.32256	0.18026	0.8561	0.6473	1068.37	8.42854	1062.54	8.71318	1050.6	20.3351	1050.6	20.3351	101.692
GBR-COV1-22	28870.4	2.28752	17.7228	0.67624	0.53869	0.96153	0.07043	0.68296	0.71029	438.753	2.89681	437.561	3.41807	431.271	15.0826	438.753	2.89681	101.735
GBR-COV1-22	110262	2.86648	11.3442	0.50059	2.92478	0.8357	0.24223	0.66919	0.80075	1398.3	8.41194	1388.34	6.32362	1373.06	9.62893	1373.06	9.62893	101.838
GBR-COV1-22	4883960	2.48	10.0697	0.43551	3.87948	0.73379	0.28616	0.59058	0.80483	1622.33	8.47057	1609.42	5.92392	1592.56	8.13489	1592.56	8.13489	101.869
GBR-COV1-22	62562.6	3.8631	9.07354	0.37632	4.90201	0.73693	0.32589	0.63336	0.85946	1818.43	10.0354	1802.6	6.21493	1784.32	6.86598	1784.32	6.86598	101.912
GBR-COV1-22	113725	4.62344	12.7771	0.7366	2.08381	1.17175	0.19548	0.91119	0.77764	1151	9.60492	1143.49	8.03978	1129.26	14.6614	1129.26	14.6614	101.925
GBR-COV1-22	198729	1.51985	13.4205	0.60649	1.80595	0.98445	0.17766	0.7754	0.78765	1054.21	7.54091	1047.61	6.43361	1033.87	12.2731	1033.87	12.2731	101.967
GBR-COV1-22	21800.6	1.28479	10.0269	0.62598	3.8924	1.11015	0.28684	0.88963	0.80137	1625.72	12.7834	1612.11	8.96843	1594.35	12.401	1594.35	12.401	101.968
GBR-COV1-22	270537	2.48651	16.6933	0.49689	0.79104	0.98532	0.09655	0.85084	0.86352	594.133	4.82914	591.763	4.41878	582.666	10.7871	594.133	4.82914	101.968
GBR-COV1-22	719892	3.06073	10.7037	0.54354	3.36449	0.96967	0.26361	0.80302	0.82813	1508.28	10.7992	1496.17	7.59014	1479.04	10.306	1479.04	10.306	101.977
GBR-COV1-22	54900	2.32225	10.6337	0.53101	3.40261	0.95104	0.26538	0.78672	0.82722	1517.28	10.636	1505	7.4634	1487.73	10.1203	1487.73	10.1203	101.987
GBR-COV1-22	409381	3.15352	12.8222	0.64441	2.08398	0.96404	0.19556	0.71701	0.74375	1151.4	7.56037	1143.54	6.61473	1128.69	12.8177	1128.69	12.8177	102.012
GBR-COV1-22	97870.1	1.24774	13.9905	0.67284	1.58811	1.07085	0.16265	0.83266	0.77756	971.486	7.50911	965.554	6.67211	952.053	13.7692	952.053	13.7692	102.041
GBR-COV1-22	75767.6	1.00618	9.89135	0.50912	4.0367	1.04901	0.29304	0.91653	0.87371	1656.69	13.39	1641.62	8.53691	1622.36	9.49306	1622.36	9.49306	102.116
GBR-COV1-22	206100	1.2342	9.75997	0.47944	4.19262	0.90325	0.29944	0.76548	0.84747	1688.51	11.3711	1672.58	7.40532	1652.63	8.88685	1652.63	8.88685	102.171
GBR-COV1-22	464898	3.67197	8.45916	0.93385	5.70706	1.37881	0.35376	1.01441	0.73572	1952.54	17.0885	1932.44	11.9133	1910.93	16.7635	1910.93	16.7635	102.178
GBR-COV1-22	71312.8	1.94551	13.2231	0.60329	1.89223	0.82338	0.18351	0.55835	0.67813	1086.1	5.58093	1078.36	5.46983	1062.79	12.1733	1062.79	12.1733	102.194
GBR-COV1-22	144049	2.55662	18.0728	0.81038	0.50337	1.22118	0.06656	0.91347	0.74803	415.414	3.67501	413.983	4.15178	405.987	18.1411	415.414	3.67501	102.322
GBR-COV1-22	84799.4	2.27805	10.8907	0.67033	3.22824	0.86391	0.25765	0.54429	0.63003	1477.81	7.18816	1463.96	6.69747	1443.92	12.781	1443.92	12.781	102.347
GBR-COV1-22	29401.5	5.01394	11.219	0.58515	2.96235	0.89217	0.24469	0.67314	0.7545	1411.05	8.5307	1398.02	6.77282	1378.18	11.255	1378.18	11.255	102.385
GBR-COV1-22	87642.1	2.00808	13.8503	0.61446	1.64092	0.91938	0.1666	0.68323	0.74314	993.355	6.28982	986.065	5.80043	969.853	12.5563	969.853	12.5563	102.423
GBR-COV1-22	146175	2.534	5.88859	0.51742	11.5705	0.80539	0.49812	0.61717	0.7663	2605.73	13.2286	2570.3	7.52741	2542.46	8.67483	2542.46	8.67483	102.488
GBR-COV1-22	27157.5	4.25738	13.5155	0.78281	1.74809	0.9899	0.17414	0.54705	0.55264	1034.88	5.23031	1026.46	6.39379	1008.52	16.7332	1008.52	16.7332	102.614
GBR-COV1-22	112899	2.16083	9.76951	0.50687	4.19435	0.89767	0.30015	0.74069	0.82513	1692.07	11.0231	1672.92	7.36014	1648.95	9.40388	1648.95	9.40388	102.615
GBR-COV1-22	27523.1	3.5115	13.347	0.76832	1.82224	1.02537	0.17915	0.67609	0.65936	1062.34	6.62171	1053.49	6.72245	1035.18	15.5918	1035.18	15.5918	102.623
GBR-COV1-22	62364.6	2.45984	10.9343	0.7905	3.21111	1.23376	0.25719	0.94692	0.76751	1475.47	12.4879	1459.84	9.55281	1437.16	15.0808	1437.16	15.0808	102.666
GBR-COV1-22	288508	2.53528	11.7125	0.50713	2.6922	0.9821	0.23105	0.84103	0.85636	1339.98	10.1755	1326.31	7.27134	1304.29	9.849	1304.29	9.849	102.737
GBR-COV1-22	54479.2	1.8622	11.6474	0.51329	2.74206	0.80833	0.23392	0.62436	0.77241	1354.99	7.6301	1339.94	6.01437	1315.95	9.95575	1315.95	9.95575	102.966
GBR-COV1-22	63467.4	1.33233	12.4737	0.7123	2.25983	1.01834	0.20695	0.72606	0.71298	1212.57	8.02549	1199.85	7.1682	1177.05	14.1397	1177.05	14.1397	103.017
GBR-COV1-22	1613338	9.50712	9.40256	0.57589	4.61179	1.01648	0.31706	0.83761	0.82403	1775.36	12.9987	1751.4	8.48219	1722.91	10.5792	1722.91	10.5792	103.045
GBR-COV1-22	296869	4.59278	14.3822	0.73164	1.45101	1.06545	0.1531	0.77452	0.72695	918.298	6.62908	910.289	6.40462	890.916	15.0952	890.916	15.0952	103.073
GBR-COV1-22	100862	1.56215	18.026	0.59249	0.51365	1.1046	0.06779	0.93207	0.84381	422.85	3.81477	420.901	3.80609	410.213	13.2587	422.85	3.81477	103.081
GBR-COV1-22	71473.5	2.38953	13.5422	0.57402	1.78465	0.94729	0.1769	0.75176	0.79359	1050.03	7.2844	1039.88	6.16456	1018.57	11.6726	1018.57	11.6726	103.089
GBR-COV1-22	65228.4	3.19821	9.34989	0.54667	4.6463	0.83425	0.31847	0.6297	0.75481	1782.25	9.80503	1757.63	6.97072	1728.46	10.0456	1728.46	10.0456	103.112
GBR-COV1-22	34973.1	5.35703	13.8284	1.00299	1.63778	1.37491	0.16676	0.91729	0.66716	994.22	8.45143	984.859	8.66827	964.073	20.91	964.073	20.91	103.127
GBR-COV1-22	59897.7	2.92145	14.0843	0.789	1.54831	1.08894	0.16033	0.74982	0.68858	958.598	6.67889	949.82	6.71808	929.515	16.1926	929.515	16.1926	103.129
GBR-COV1-22	215763	1.47063	9.72509	0.51209	4.2795	0.79672	0.30441	0.61032	0.76604	1713.13	9.18169	1689.43	6.55759	1660.11	9.48124	1660.11	9.48124	103.194
GBR-COV1-22	131907	2.88744	13.4584	0.46799	1.82741	0.91845	0.1799	0.79013	0.86029	1066.44	7.76615	1055.35	6.02748	1032.46	9.46186	1032.46	9.46186	103.291
GBR-COV1-22	54061.2	2.31237	13.4983	0.56553	1.79129	1.03326	0.1775	0.86205	0.8343	1053.31	8.37705	1042.29	6.73295	1019.25	11.5354	1019.25	11.5354	103.342
GBR-COV1-22	43168.6	4.49308	13.7152	0.77308	1.68967	1.16378	0.17052	0.86924	0.7469	1014.99	8.16319	1004.64	7.42357	982.108	15.7463	982.108	15.7463	103.349
GBR-COV1-22	23209.8	0.74068	14.0539	0.97334	1.55303	1.20533	0.16079	0.69386	0.57566	961.172	6.1958	951.701	7.44504	929.882	20.2484	929.882	20.2484	103.365
GBR-COV1-22	37313.5	2.46378	9.97584	0.63095	3.99116	0.95615	0.29297	0.7102	0.74278	1656.33	10.3737	1632.4	7.76358	1601.68	11.9437	1601.68	11.9437	103.412
GBR-COV1-22	68619.6	2.77515	12.3797	0.49351	2.31821	0.96596	0.21073	0.83019	0.85945	1232.69	9.31466	1217.88	6.8524	1191.71	9.72919	1191.71	9.72919	103.438
GBR-COV1-22	80383	1.78843	10.7926	0.43406	3.36003	0.91783	0.26527	0.80808	0.88042	1516.75	10.9213	1495.13	7.18213	1464.6	8.2684	1464.6	8.2684	103.561
GBR-COV1-22	83925.6	4.18591	13.4546	0.54722	1.81981	0.9483	0.17956	0.77444	0.81666	1064.59	7.59977	1052.62	6.21421	1027.84	11.0679	1027.84	11.0679	103.576
GBR-COV1-22	43069.8	2.19128	15.94	0.72452	0.98081	1.04041	0.11468	0.73833	0.70965	699.866	4.89667	694.023	5.23098	675.153	15.6625	699.866	4.89667	103.66
GBR-COV1-22	16416.9	0.82642	13.2505	0.93477	1.84932	1.26967	0.18164	0.75878	0.59762	1075.92	7.51892	1063.19	8.36764	1037.13	20.5777	1037.13	20.5777	103.74
GBR-COV1-22	33268.5	1.30044	11.8154	0.83518	2.63879	1.12919	0.22922	0.75939	0.67251	1330.42	9.12875	1311.52	8.31483	1280.73	16.2674	1280.73	16.2674	103.88
GBR-COV1-22	36789.1	2.00609	13.3135	0.75946	1.86925	1.05448	0.18307	0.72978	0.69207	1083.7	7.27959	1070.27	6.97547	1043.01	15.3764	1043.01	15.3764	103.901
GBR-COV1-22	50874.8	1.45816	13.2651	0.71365	1.91726	1.03898	0.18628	0.75085	0.72268	1101.22	7.60085	1087.12	6.93349	1058.99	14.4545	1058.99	14.4545	103.988
GBR-COV1-22	57137.4	2.46089	17.9748	0.69127	0.51808	1.18668	0.06839	0.9614	0.81016	426.42	3.96694	423.871	4.11216	410.009	15.56	426.42	3.96694	104.003
GBR-COV1-22	62899.5	2.66105	13.0745	0.52074	1.98985	0.87085	0.19104	0.6965	0.7998	1127.01	7.20177	1112.07	5.885	1083	10.4745	1083	10.4745	104.064
GBR-COV1-22	64307.5	1.76907	13.228	0.79632	1.92371	1.23723	0.18676	0.9467	0.76517	1103.79	9.60391	1089.36	8.26601	1060.63	16.0211	1060.63	16.0211	104.069

GBR-COV1-22	25131.5	3.46119	17.7074	0.8797	0.54097	1.15365	0.07095	0.67306	0.58342	441.847	2.87424	439.064	4.11229	424.481	20.9042	441.847	2.87424	104.091
GBR-COV1-22	8391.07	2.35115	13.1297	1.03427	1.86206	1.29325	0.18271	0.76726	0.59328	1081.78	7.64109	1067.72	8.54352	1039.07	21.0362	1039.07	21.0362	104.111
GBR-COV1-22	291625	3.26718	12.8768	0.55636	2.10823	0.91912	0.19858	0.73159	0.79597	1167.69	7.8137	1151.5	6.33011	1121.14	11.096	1121.14	11.096	104.152
GBR-COV1-22	8190.99	3.03252	13.2401	0.88878	1.82342	1.2105	0.18017	0.82003	0.67743	1067.93	8.07043	1053.91	7.93808	1024.98	18.0332	1024.98	18.0332	104.19
GBR-COV1-22	46032.1	1.41828	8.25842	0.67736	6.15889	1.05989	0.37232	0.81327	0.76732	2040.32	14.2238	1998.63	9.25887	1955.8	12.1355	1955.8	12.1355	104.321
GBR-COV1-22	30499.2	3.03192	11.6511	0.58732	2.76785	0.7882	0.23675	0.52154	0.66169	1369.78	6.43595	1346.91	5.8792	1310.76	11.4673	1310.76	11.4673	104.503
GBR-COV1-22	271370	1.80707	9.93521	0.5729	4.14694	0.94764	0.30117	0.75485	0.79656	1697.12	11.2631	1663.61	7.7528	1621.55	10.6593	1621.55	10.6593	104.66
GBR-COV1-22	87333.8	1.18394	11.4994	0.56345	2.87182	0.8865	0.24253	0.68368	0.77121	1399.81	8.60244	1374.55	6.67662	1335.49	10.9134	1335.49	10.9134	104.816
GBR-COV1-22	35993.5	2.33157	11.3782	0.66612	2.93255	0.99447	0.2457	0.73024	0.7343	1416.28	9.28494	1390.35	7.5301	1350.77	13.0275	1350.77	13.0275	104.849
GBR-COV1-22	26230.4	3.03306	18.0521	0.7785	0.49122	1.14942	0.06544	0.83484	0.72632	408.606	3.30536	405.744	3.84455	389.459	17.7354	408.606	3.30536	104.916
GBR-COV1-22	18896.9	1.48304	17.4459	1.00391	0.58692	1.40305	0.07608	0.89725	0.6395	472.698	4.08952	468.899	5.26903	450.322	23.9769	472.698	4.08952	104.969
GBR-COV1-22	39337	5.38218	18.2899	0.74297	0.46468	1.28828	0.0626	1.03872	0.80628	391.406	3.94465	387.511	4.15009	364.295	17.178	391.406	3.94465	107.442
GBR-COV1-22	8488.62	0.55347	17.771	1.30279	0.47702	1.59794	0.06404	0.92136	0.57659	400.135	3.5746	396.029	5.24019	372.108	29.3901	400.135	3.5746	107.532
GBR-COV1-22	115465	24.4027	16.7109	0.42212	0.83176	0.99063	0.10192	0.89607	0.90455	625.64	5.34271	614.586	4.56742	574.054	9.18435	625.64	5.34271	108.986
GBR-COV1-22	11482.4	0.98479	17.7726	1.80936	0.52044	1.99621	0.06917	0.82654	0.41405	431.143	3.447	425.448	6.93819	394.687	40.7537	431.143	3.447	109.237
GBR-COV1-22	25695.2	1.6499	17.8752	0.79683	0.54612	1.14305	0.07206	0.81516	0.71315	448.583	3.53235	442.45	4.09959	410.652	17.9204	448.583	3.53235	109.237
GBR-COV1-22	18088.5	1.73838	17.8095	1.03388	0.53918	1.54382	0.07134	1.14144	0.73936	444.25	4.90005	437.887	5.49133	404.544	23.2724	444.25	4.90005	109.815
GBR-COV1-22	14241.5	2.08613	17.9934	0.83166	0.48902	1.25308	0.06567	0.92639	0.73929	410.043	3.68032	404.244	4.17866	371.213	18.9802	410.043	3.68032	110.46
GBR-COV1-22	18467.3	1.85584	17.9825	1.00485	0.51307	1.30302	0.06844	0.80942	0.62119	426.764	3.34245	420.509	4.48643	386.33	22.935	426.764	3.34245	110.466
GBR-COV1-22	10577.6	1.4519	18.4542	1.48329	0.38271	1.72997	0.05308	0.84552	0.48875	333.432	2.74757	329.029	4.86194	297.979	34.4273	333.432	2.74757	111.898
GBR-COV1-22	28077.7	6.86125	17.4383	0.79971	0.6704	1.06974	0.08612	0.70951	0.66325	532.546	3.6266	520.957	4.35937	470.486	17.7251	532.546	3.6266	113.191
GBR-COV1-22	6575.87	4.65102	17.1972	1.9119	0.60532	2.3423	0.07918	0.89771	0.38326	491.251	4.24617	480.604	8.96822	430.103	48.2252	491.251	4.24617	114.217
GBR-COV1-22	6669.42	3.25496	17.4621	1.64752	0.56541	2.44093	0.07509	0.89834	0.36803	466.744	4.04474	455.04	8.95221	396.326	50.8694	466.744	4.04474	117.768

GBR-COV2-22

Sample	U (ppm)	206Pb 204Pb	U/Th	206Pb* 207Pb*	Â± (%)	207Pb* 235U	Â± (%)	206Pb* 238U	Â± (%)	error corr.	206Pb* 238U	Â± (Ma)	207Pb* 235U	Â± (Ma)	206Pb* 207Pb*	Â± (Ma)	Best age (Ma)	Â± (Ma)	Conc (%)
GBR-COV2-22	839.136	9618.12	7.51509	13.4981	2.17488	0.49441	3.31616	0.0498	2.50132	0.75428	313.273	7.64861	407.914	11.1404	986.19	44.311	313.273	7.64861	31.766
GBR-COV2-22	268.726	3085.36	2.254	9.31564	9.66055	0.88026	10.3849	0.06254	3.13494	0.30187	391.057	11.895	641.121	49.4046	1662.29	183.717	391.057	11.895	23.5252
GBR-COV2-22	628.366	12274.7	2.83051	14.1938	2.07415	0.51127	2.52864	0.05394	1.43238	0.56646	338.685	4.72601	419.301	8.6863	890.943	43.0426	338.685	4.72601	38.0142
GBR-COV2-22	94.366	66573.7	3.55508	14.908	2.55573	0.67067	2.75548	0.07325	1.029	0.37344	455.698	4.52725	521.117	11.2321	819.207	53.4025	455.698	4.52725	55.6267
GBR-COV2-22	137.309	27574	1.27797	16.2219	2.5721	0.53739	2.86928	0.06433	1.22448	0.42676	401.894	4.77087	436.701	10.1841	624.613	55.938	401.894	4.77087	64.3429
GBR-COV2-22	189.72	53642.2	1.3638	16.3538	1.81788	0.56756	2.19961	0.06815	1.23832	0.56297	424.999	5.09314	456.434	8.08669	617.949	39.228	424.999	5.09314	68.7758
GBR-COV2-22	415.501	43633	88.9436	16.7008	0.90182	0.53409	1.42392	0.06545	1.10189	0.77384	408.659	4.36323	434.52	5.03365	574.015	19.6248	408.659	4.36323	71.1932
GBR-COV2-22	101.646	31004.7	1.71415	16.4328	1.36894	0.57877	1.77684	0.07004	1.12607	0.63375	436.406	4.75157	463.672	6.61414	601.063	29.7713	436.406	4.75157	72.6057
GBR-COV2-22	93.4832	322186	2.22439	16.6327	1.0682	0.59156	1.28301	0.07191	0.71067	0.55391	447.626	3.0732	471.863	4.84215	591.506	23.1401	447.626	3.0732	75.6757
GBR-COV2-22	265.125	34425.7	8.86367	15.1263	1.86034	0.86523	3.49397	0.09626	2.95747	0.84645	592.459	16.7408	632.971	16.4583	780.44	39.1274	592.459	16.7408	75.9135
GBR-COV2-22	379.801	44585.4	1.541	16.9508	0.54424	0.52633	1.43702	0.06566	1.32982	0.9254	409.968	5.28209	429.369	5.03156	534.863	11.9212	409.968	5.28209	76.6492
GBR-COV2-22	92.3529	111177	1.99236	5.29022	0.37228	10.3735	1.02263	0.40147	0.95243	0.93135	2175.82	17.5883	2468.69	9.47096	2719.46	6.1378	2719.46	6.1378	80.0092
GBR-COV2-22	17.7884	22452.6	2.24591	11.1742	1.58596	2.28909	1.77806	0.18837	0.80302	0.45163	1112.56	8.20562	1208.93	12.5657	1385.38	30.4663	1385.38	30.4663	80.3076
GBR-COV2-22	352.292	48955.3	2.75004	9.35808	0.41843	3.56608	1.06848	0.24437	0.98313	0.92012	1409.4	12.4462	1542.02	8.47331	1728.87	7.68113	1728.87	7.68113	81.5215
GBR-COV2-22	186.823	608034	4.34684	12.4618	0.46241	1.78819	1.13615	0.16269	1.03779	0.91343	971.712	9.36105	1041.17	7.39883	1189.97	9.11133	1189.97	9.11133	81.6585
GBR-COV2-22	136.429	119798	2.5119	9.54477	0.51495	3.43308	1.68835	0.23972	1.60779	0.95228	1385.22	20.0412	1512	13.2769	1694.36	9.49876	1694.36	9.49876	81.7551
GBR-COV2-22	137.404	245990	1.27743	17.1801	0.6749	0.54751	1.24375	0.0687	1.04471	0.83997	428.294	4.32903	443.366	4.46814	522.339	14.8051	428.294	4.32903	81.9955
GBR-COV2-22	46.0547	75964.9	2.23423	13.0911	2.25248	1.58409	2.36598	0.15199	0.72388	0.30596	912.094	6.15669	963.978	14.728	1084.27	45.1847	1084.27	45.1847	84.1205
GBR-COV2-22	190.018	85606.7	1.29382	17.2203	0.66981	0.54346	1.31158	0.06866	1.12711	0.85935	428.104	4.66846	440.701	4.6892	507.057	14.7455	428.104	4.66846	84.4292
GBR-COV2-22	296.762	88176.1	5.344	17.2784	0.51616	0.53517	1.15014	0.06783	1.02568	0.89179	423.059	4.19992	435.238	4.07117	500.222	11.4506	423.059	4.19992	84.5741
GBR-COV2-22	186.106	242476	3.17913	13.6888	3.00056	1.40382	3.22563	0.14077	1.18376	0.36699	848.994	9.41641	890.553	19.1296	995.197	61.0005	995.197	61.0005	85.3091
GBR-COV2-22	361.845	32996.5	3.13756	12.949	0.50963	1.67306	0.9508	0.15885	0.80218	0.8437	950.384	7.08848	998.351	6.04264	1105.25	10.2169	1105.25	10.2169	85.9881
GBR-COV2-22	121.632	311754	2.21374	9.04143	0.47004	4.08916	0.81753	0.27045	0.66889	0.81818	1543.11	9.17929	1652.14	6.67003	1793.71	8.55914	1793.71	8.55914	86.029
GBR-COV2-22	146.376	39620.6	2.01217	10.3665	0.48378	3.05987	0.67598	0.23245	0.47206	0.69833	1347.3	5.7394	1422.71	5.1732	1537.4	9.10335	1537.4	9.10335	87.6351
GBR-COV2-22	426.324	105839	1.67899	9.31068	0.32577	3.98884	0.67464	0.27163	0.59077	0.87568	1549.05	8.1348	1631.93	5.47711	1740.45	5.96957	1740.45	5.96957	89.0027
GBR-COV2-22	63.6115	113435	2.12753	5.38643	1.3928	11.5048	1.57697	0.45367	0.73948	0.46893	2411.55	14.8772	2564.97	14.7329	2688.55	23.0231	2688.55	23.0231	89.697
GBR-COV2-22	30.5038	71154.8	1.90162	13.63	0.97478	1.50441	1.29514	0.15022	0.85271	0.6584	902.194	7.17906	932.176	7.89981	1003.73	19.7762	1003.73	19.7762	89.8839
GBR-COV2-22	173.069	69068	1.37126	13.0688	0.59063	1.70324	1.00147	0.16341	0.8086	0.80742	975.704	7.32152	1009.75	6.40714	1084.38	11.848	1084.38	11.848	89.9782
GBR-COV2-22	93.9858	597229	3.1992	5.48359	0.43396	11.2634	0.84973	0.45154	0.73056	0.85976	2402.08	14.65	2545.18	7.92457	2661.26	7.19228	2661.26	7.19228	90.2608
GBR-COV2-22	439.748	230680	4.64677	13.6795	0.38669	1.50014	1.31522	0.15027	1.25708	0.95579	902.489	10.5866	930.442	8.0132	997.246	7.83812	997.246	7.83812	90.4981
GBR-COV2-22	292.568	468768	4.56813	5.63869	0.42794	10.7783	1.17118	0.44504	1.09019	0.93085	2373.14	21.6441	2504.19	10.8827	2612.22	7.12592	2612.22	7.12592	90.8475
GBR-COV2-22	398.562	219087	4.17199	12.9218	0.38301	1.79655	0.67962	0.1699	0.56138	0.82602	1011.58	5.2557	1044.21	4.43321	1113.1	7.6674	1113.1	7.6674	90.8803
GBR-COV2-22	165.093	185436	4.62045	12.4085	0.50954	2.02709	1.54384	0.18386	1.45728	0.94393	1088.05	14.5901	1124.64	10.4977	1196.03	10.0531	1196.03	10.0531	90.9712
GBR-COV2-22	276.682	153824	3.72487	12.5287	0.47669	1.96657	3.19767	0.1804	3.1619	0.98881	1069.14	31.1509	1104.13	21.527	1173.76	9.45636	1173.76	9.45636	91.0872
GBR-COV2-22	29.4613	30562.9	2.31781	13.4378	0.90716	1.59003	1.25619	0.1568	0.83952	0.6683	938.974	7.33562	966.311	7.83058	1029.01	18.9129	1029.01	18.9129	91.2506
GBR-COV2-22	52.6217	74534.5	1.34446	17.7428	1.28064	0.49724	1.48188	0.06471	0.74534	0.50297	404.23	2.92035	409.835	4.99716	441.508	28.5126	404.23	2.92035	91.5567
GBR-COV2-22	134.216	68125.6	2.18285	17.8816	0.67336	0.47011	1.25186	0.06176	1.05354	0.84158	386.349	3.95076	391.266	4.0648	420.419	15.0966	386.349	3.95076	91.8962
GBR-COV2-22	71.5735	364403	1.63054	9.87907	0.43043	3.63711	0.93396	0.2625	0.82885	0.88746	1502.62	11.1095	1557.69	7.43829	1633.17	7.99795	1633.17	7.99795	92.0062
GBR-COV2-22	43.7338	106926	1.63495	11.8011	0.71066	2.34378	2.9116	0.20246	2.82346	0.96973	1188.51	30.6455	1225.67	20.7253	1291.65	13.8329	1291.65	13.8329	92.0143
GBR-COV2-22	182.074	117732	1.88199	9.42495	0.47781	4.03181	0.72112	0.27793	0.53976	0.74851	1580.94	7.56747	1640.63	5.86699	1717.98	8.78991	1717.98	8.78991	92.0235
GBR-COV2-22	70.0475	168702	1.70121	5.52803	0.66492	11.3957	1.13591	0.46033	0.92094	0.81076	2441	18.7141	2556.07	10.6037	2648.66	11.0308	2648.66	11.0308	92.1599
GBR-COV2-22	76.0437	118654	1.72046	13.3983	0.66264	1.64749	0.96785	0.16145	0.70476	0.72817	964.85	6.31548	988.589	6.11548	1041.64	13.4067	1041.64	13.4067	92.6276
GBR-COV2-22	366.643	541491	2.04671	17.4367	0.68138	0.57087	0.94334	0.07279	0.65238	0.69157	452.914	2.85333	458.577	3.48094	487.049	15.0435	452.914	2.85333	92.9914
GBR-COV2-22	55.684	83487.9	2.32158	10.8775	0.61091	2.92277	0.93598	0.2326	0.70838	0.75683	1348.09	8.61724	1387.82	7.08117	1449.43	11.6459	1449.43	11.6459	93.0089
GBR-COV2-22	160.366	42569.2	2.15489	8.84209	0.74119	4.68408	1.1783	0.30308	0.91058	0.77279	1706.55	13.6527	1764.4	9.85966	1833.57	13.551	1833.57	13.551	93.0729
GBR-COV2-22	47.8634	24293.6	1.76457	15.9904	0.97932	0.84162	1.13965	0.09931	0.54567	0.4788	610.382	3.17782	620.04	5.28836	655.451	21.4594	610.382	3.17782	93.1241
GBR-COV2-22	96.1668	141451	1.39047	9.71583	0.4882	3.84979	0.81337	0.27376	0.65039	0.79963	1559.84	9.01102	1603.22	6.55598	1660.69	9.04163	1660.69	9.04163	93.9276
GBR-COV2-22	44.044	39171.1	1.91704	12.8489	1.93838	1.88406	2.11863	0.17755	0.85514	0.40363	1053.59	8.31189	1075.49	14.0541	1120.16	38.665	1120.16	38.665	94.0567
GBR-COV2-22	27.8868	25310.8	1.53324	12.6132	0.98362	1.96238	1.2826	0.1824	0.82194	0.64084	1080.07	8.17368	1102.7	8.62727	1147.63	19.543	1147.63	19.543	94.1128
GBR-COV2-22	176.71	92017.6	1.60127	9.8916	0.39206	3.72389	0.81449	0.26917	0.71388	0.87648	1536.6	9.7601	1576.52	6.51954	1630.33	7.28878	1630.33	7.28878	94.2509
GBR-COV2-22	358.796	237465	87.8638	13.6937	0.44035	1.56604	2.04801	0.15701	2.00008	0.9766	940.155	17.497	956.859	12.6918	995.443	8.94254	995.443	8.94254	94.446
GBR-COV2-22	198.16	105206	103.412	11.167	1.43285	2.77436	1.72594	0.22708	0.96213	0.55745	1319.18	11.4778	1348.66	12.8824	1395.71	27.4779	1395.71	27.4779	94.517
GBR-COV2-22	91.5996	61377.2	1.60133	13.5632	0.70881	1.61792	1.09054	0.16062	0.82392	0.75552	960.245	7.35064	977.183	6.84348	1015.43	14.476	1015.43	14.476	94.5654
GBR-COV2-22	170.702	105062	2.32582	9.38332	1.44785	4.20395	2.00629	0.28852	1.38871	0.69218	1634.11	20.0453	1674.79	16.4584	1726.12	26.5869	1726.12	26.5869	94.6696
GBR-COV2-22	207.897	105302	2.35895	10.8904	0.54326	2.98242	0.95566	0.23733	0.78604	0.82251	1372.78	9.71909	1403.15	7.26712	1449.57	10.3467	1449.57	10.3467	94.7029
GBR-COV2-22	444.984	402599	3.59589	13.4181	0.36004	1.67971	1.03267	0.16488	0.96786	0.93725	983.824	8.83107	1000.87	6.57269	1038.39	7.2882	1038.39	7.2882	94.7454
GBR-COV2-22	61.6615	1123276	1.5843	5.38532	0.39024	12.3703	0.72934	0.48698	0.61616	0.84481	2557.61	13.0082	2632.93	6.85184	2691.33	6.44627	2691.33	6.44627	95.0314
GBR-COV2-22	67.8292	43313.2	2.06189	17.8126	1.01968	0.49618	1.26127	0.065	0.74129	0.58774	405.94	2.91641	409.112	4.24711	427.033	22.7563	405.94	2.91641	95.0604
GBR-COV2-22	134.509	380788	2.39247	9.95084	0.51941	3.69283	0.90075	0.26904	0.73591	0.817	1535.92	10.0573	1569.82	7.19725	1615.68	9.67123	1615.68	9.67123	95.0629
GBR-COV2-22	232.333	110072	2.25824	17.8908	0.62316	0.4941	1.03961	0.06477	0.83184	0.80015	404.586	3.26208	407.703	3.4909	425.374	13.9095	404.586	3.26208	95.1131
GBR-COV2-22	521.238	571002	3.08843	12.5662	0.4275	2.04858	0.82432	0.18834	0.7048	0.85501	1112.37	7.2009	1131.82	5.62455	1169.35	8.48405	1169.35	8.48405	95.1272
GBR-COV2-22	222.684	299615	3.73368	10.1241	0.44434	3.5654	1.26881	0.26392	1.18846	0.93667	1509.85	15.9975	1541.86	10.0617	1586.03	8.30698	1586.03	8.30698	95.1967
GBR-COV2-22	30.9499	75514.4	3.75124	5.57756	0.86858	11.6773	1.19982	0.4764	0.82772	0.68987	2511.56	17.2176	2578.89	11.2222	2632.22	14.4324	2632.22	14.4324	95.4162
GBR-COV2-22	14.017	9567.99	2.7416	12.673	0.82587	1.91236	1.30151	0.18037	0.83668	0.64285	1069.01	8.24188	1085.41	8.67789	1118.5	19.8985	1118.5	19.8985	95.5754
GBR-COV2-22	240.283	179682	2.98879	10.5677	0.71576	3.20644	1.17404	0.24874	0.9306	0.79264	1431.97	11.9496	1458.72	9.08726	1497.87	13.5381	1497.87	13.5381	95.6007
GBR-COV2-22	130.224	124572	1.49029	9.83882	0.42701	3.80671	0.80688	0.27449	0.68446	0.84829	1563.54	9.50291	1594.16	6.48851	1634.87	7.93733	1634.87	7.93733	95.6372
GBR-COV2-22	169.475	132776	2.094	9.70847	0.38868	3.93853	1.2035	0.27978	1.13885	0.94629	1590.26	16.0498	1621.64	9.74597	1662.58	7.20134	1662.58	7.20134	95.6503
GBR-COV2-22	175.338	403114	3.36212	12.3143	0.41778	2.16393	1.00112	0.19554	0.90978	0.90876	1151.3	9.59225	1169.53	6.95247	1203.43	8.21316	1203.43	8.21316	95.6682
GBR-COV2-22	268.118	461748	3.05402	12.9591	0.40055	1.89563	0.95128	0.17943	0.86283	0.90703	1063.87	8.462	1079.56	6.32343	1111.34	7.99572	1111.34	7.99572	95.7291
GBR-COV2-22	355.268	2630133	3.21422	9.19681	0.42851	4.48021	0.81328	0.30066	0.69123	0.84993	1694.56	10.3002	1727.31	6.75113	1767.21	7.82845	1767.21	7.82845	95.8885
GBR-COV2-22	612.911	151297	7.42294	9.14773	0.38122	4.49457	1.2553	0.30118	1.19594	0.95271	1697.17	17.8451	1729.97	10.4267	1769.86	6.96638	1769.86	6.96638	95.8931
GBR-COV2-22	137.735	122636	2.63451	13.4859	0.50021	1.67347	1.03512	0.1652	0.90591	0.87517	985.583	8.27941	998.505	6.57916	1026.97	10.1298	1026.97	10.1298	95.9698
GBR-COV2-22	408.112	165741	31.5677	12.7153	0.59696	1.99126	0.91883	0.18558	0.69836	0.76005	1097.38	7.04686	1112.55	6.21076	1142.3	11.8598	1142.3	11.8598	96.0678
GBR-COV2-22	324.241	280340	3.16535	17.7243	0.51396	0.53527	0.9189	0.06941	0.76172	0.82895	432.627	3.18728	435.3	3.25303	449.442	11.4176	432.627	3.18728	96.2586
GBR-COV2-22	131.735	100095	1.75878	9.17714	0.68962	4.49247	1.30058	0.3018	1.10254	0.84773	1700.24	16.4776	1729.58	10.8019	1765.25	12.6061	1765.25	12.6061	96.3173
GBR-COV2-22	379.094	136462	1.71577	12.0929	0.46094	2.32723	0.92191	0.20545	0.79821	0.86582	1204.55	8.77	1220.63	6.54758	1249.17	9.01878	1249.17	9.01878	96.4281
GBR-COV2-22	386.239	557012	2.57974	9.2378	0.36771	4.46057	0.80768	0.30083	0.71912	0.89035	1695.44	10.7208	1723.67	6.6993	1758.11	6.72532	1758.11	6.72532	96.4354
GBR-COV2-22	60.0994	34165.1	5.37898	12.2692	0.73122	2.20163	1.1561	0.19835	0.87969	0.76091	1166.46	9.3864	1181.56	8.07248	1209.34	14.75	1209.34	14.75	96.4542
GBR-COV2-22	11.6696	10898.8	9.25109	12.8456	1.46788	1.85759	1.73764	0.17754	0.90091	0.51847	1053.51	8.75622	1066.13	11.4699	1092.06	29.7618	1092.06	29.7618	96.4704
GBR-COV2-22	97.7866	83262.6	2.10708	10.8046	0.625	3.08669	2.88425	0.24428	2.81569	0.97623	1408.92	35.6353	1429.39	22.1235	1459.99	11.8833	1459.99	11.8833	96.5021
GBR-COV2-22	302.305	176755	13.877	13.9946	0.42972	1.50793	0.94537	0.15407	0.84199	0.89065	923.745	7.2463	933.602	5.77169	956.924	8.78866	956.924	8.78866	96.5327
GBR-COV2-22	357.22	201005	2.0082	8.93312	0.36886	4.79436	0.71046	0.31295	0.6072	0.85466	1755.22	9.33002	1783.91	5.96901	1817.62	6.69526	1817.62	6.69526	96.5668
GBR-COV2-22	585.383	570796	7.3604	13.2358	0.40037	1.80288	0.83565	0.17412	0.7335	0.87775	1034.77	7.01216	1046.5	5.45784	1071.09	8.0329	1071.09	8.0329	96.609
GBR-COV2-22	108.993	91985.1	3.23265	10.8198	0.42359	3.09585	1.15824	0.24486	1.07761	0.93039	1411.91	13.6639	1431.66	8.88943	1461.13	8.06998	1461.13	8.06998	96.6312
GBR-COV2-22	170.484	8.3E+07	7.70513	13.2497	0.48961	1.7881	0.90147	0.17318	0.75693	0.83965	1029.61	7.20286	1041.13	5.87045	1065.42	9.83931	1065.42	9.83931	96.6387
GBR-COV2-22	86.2038	92904.8	1.06148	9.71336	0.56379	3.97861	0.82463	0.28293	0.60126	0.72912	1606.12	8.54788	1629.84	6.69146	1660.58	10.448	1660.58	10.448	96.7205
GBR-COV2-22	244.377	406163	2.29237	10.4153	0.38582	3.3975	0.64742	0.25875	0.51989	0.80302	1483.45	6.88929	1503.82	5.07895	1532.61	7.26376	1532.61	7.26376	96.7924
GBR-COV2-22	205.451	71194.9	2.63155	16.5287	0.51784	0.77461	1.20624	0.09389	1.08799	0.90197	578.515	6.02004	582.403	5.34621	597.597	11.2611	578.515	6.02004	96.8069

GBR-COV2-22	46.2023	155316	2.04715	9.87675	0.60194	3.84402	0.92912	0.27772	0.70776	0.76175	1579.87	9.9169	1602.02	7.48671	1631.25	11.186	1631.25	11.186	96.8503
GBR-COV2-22	507.344	799123	20.6605	13.5104	0.47087	1.69427	1.12347	0.16715	1.02003	0.90793	996.367	9.41682	1006.37	7.17367	1028.21	9.52185	1028.21	9.52185	96.9035
GBR-COV2-22	35.2243	26511.8	2.4991	13.1303	1.46637	1.80749	1.71826	0.17474	0.88912	0.51745	1038.16	8.52557	1048.17	11.2329	1069.1	29.5518	1069.1	29.5518	97.1068
GBR-COV2-22	22.1678	12332.7	3.15395	12.5238	0.81368	2.03672	1.12957	0.18911	0.77739	0.68822	1116.57	7.96997	1127.87	7.69269	1149.67	16.2746	1149.67	16.2746	97.1208
GBR-COV2-22	531.801	372836	4.62952	13.8425	0.30627	1.5635	0.77609	0.15832	0.71309	0.91882	947.425	6.28295	955.854	4.80626	975.321	6.2554	975.321	6.2554	97.1397
GBR-COV2-22	234.412	2952415	3.61671	10.7749	0.36977	3.15165	2.31867	0.24817	2.289	0.9872	1429.03	29.3387	1445.4	17.8744	1469.56	7.02003	1469.56	7.02003	97.2418
GBR-COV2-22	89.8398	92313.3	1.45753	13.7704	1.07743	1.5897	1.23734	0.16021	0.60689	0.49048	957.925	5.40222	966.181	7.71246	984.995	21.9296	984.995	21.9296	97.2517
GBR-COV2-22	145.655	1.2E+08	2.76783	10.7761	0.4645	3.14829	1.0829	0.24804	0.97821	0.90333	1428.37	12.5328	1444.58	8.34512	1468.51	8.81989	1468.51	8.81989	97.2671
GBR-COV2-22	83.2562	173296	2.53038	9.95029	0.49065	3.78341	0.81687	0.27584	0.65304	0.79944	1570.4	9.10178	1589.23	6.56047	1614.28	9.13869	1614.28	9.13869	97.2815
GBR-COV2-22	174.308	169075	2.54065	5.02462	0.35442	14.3739	0.75155	0.52761	0.66272	0.8818	2731.37	14.7553	2774.71	7.13489	2806.36	5.79625	2806.36	5.79625	97.3279
GBR-COV2-22	142.018	115222	2.78928	9.50529	0.44513	4.22761	0.70651	0.29354	0.54832	0.77609	1659.18	8.0211	1679.4	5.80159	1704.73	8.20173	1704.73	8.20173	97.3279
GBR-COV2-22	108.021	685288	1.8973	10.3681	0.65202	3.46508	1.13148	0.26245	0.92472	0.81727	1502.35	12.3925	1519.3	8.91601	1542.98	12.2584	1542.98	12.2584	97.3667
GBR-COV2-22	69.524	98548.3	1.39241	11.6475	0.56647	2.57861	0.78251	0.21995	0.53901	0.68882	1281.62	6.2647	1294.59	5.72529	1316.14	10.9999	1316.14	10.9999	97.3768
GBR-COV2-22	234.667	2519990	3.19659	8.99919	0.38217	4.76557	0.97656	0.31336	0.89867	0.92024	1757.23	13.8223	1778.85	8.19616	1804.31	6.94994	1804.31	6.94994	97.3904
GBR-COV2-22	153.318	317397	2.93362	10.4944	0.51666	3.35531	1.18376	0.25765	1.06505	0.89972	1477.81	14.0657	1494.03	9.26017	1517.1	9.74545	1517.1	9.74545	97.4105
GBR-COV2-22	675.187	1204907	5.4276	12.0197	0.37512	2.38514	0.84634	0.20962	0.75867	0.89641	1226.81	8.47541	1238.15	6.05505	1257.96	7.35186	1257.96	7.35186	97.524
GBR-COV2-22	83.0151	86032.6	1.79672	9.81374	0.61735	3.93677	1.03114	0.28249	0.82588	0.80094	1603.87	11.7269	1621.27	8.34942	1643.92	11.4559	1643.92	11.4559	97.5638
GBR-COV2-22	138.047	106763	2.44718	10.4978	0.50642	3.364	0.9664	0.25826	0.82309	0.8517	1480.92	10.8905	1496.05	7.56429	1517.55	9.55152	1517.55	9.55152	97.5863
GBR-COV2-22	87.2409	302045	1.92161	9.74025	0.49051	4.03372	0.90823	0.28648	0.76437	0.84161	1623.9	10.9727	1641.02	7.39009	1663.01	9.07788	1663.01	9.07788	97.6483
GBR-COV2-22	173.813	278965	1.46186	9.7438	0.38171	3.99462	0.78887	0.28493	0.69036	0.87512	1616.15	9.86852	1633.1	6.40639	1654.99	7.07313	1654.99	7.07313	97.6532
GBR-COV2-22	91.766	104639	3.31151	10.8235	0.56639	3.10917	0.84718	0.24672	0.62966	0.74325	1421.52	8.03261	1434.96	6.50881	1454.93	10.7815	1454.93	10.7815	97.7031
GBR-COV2-22	241.584	120172	4.72056	12.7897	0.48834	2.008	1.33533	0.18784	1.24263	0.93058	1109.64	12.6673	1118.21	9.05137	1134.94	9.73131	1134.94	9.73131	97.7703
GBR-COV2-22	132.24	199289	2.5141	11.9362	0.53148	2.44019	1.15443	0.21289	1.02479	0.8877	1244.18	11.5953	1254.53	8.31476	1272.32	10.3712	1272.32	10.3712	97.7886
GBR-COV2-22	56.8168	135444	2.64317	13.6678	0.62923	1.6359	0.83411	0.16371	0.54744	0.65632	977.382	4.96471	984.136	5.25637	999.211	12.767	999.211	12.767	97.8154
GBR-COV2-22	89.2717	909198	0.90994	10.1683	0.49086	3.64028	0.98274	0.27062	0.85137	0.86632	1543.96	11.6892	1558.39	7.82828	1577.97	9.18448	1577.97	9.18448	97.8448
GBR-COV2-22	51.6199	99081.1	1.40427	13.8014	0.85688	1.58631	1.19918	0.16031	0.83826	0.69903	958.503	7.46596	964.849	7.46841	979.355	17.4514	979.355	17.4514	97.8708
GBR-COV2-22	99.9109	214861	1.7745	12.5062	0.52929	2.14263	0.7925	0.19605	0.58973	0.74413	1154.06	6.2314	1162.68	5.48643	1178.79	10.4541	1178.79	10.4541	97.9019
GBR-COV2-22	147.265	221878	1.8093	9.87927	0.44548	3.90707	0.78014	0.28181	0.64042	0.8209	1600.46	9.07642	1615.15	6.30724	1634.32	8.27692	1634.32	8.27692	97.9283
GBR-COV2-22	57.9923	369739	2.50494	10.0838	0.38755	3.73005	0.81411	0.27455	0.71594	0.87942	1563.87	9.94183	1577.84	6.51878	1596.55	7.2352	1596.55	7.2352	97.9535
GBR-COV2-22	323.363	4269644	1.91732	10.5975	0.36362	3.30856	0.9407	0.2563	0.86758	0.92227	1470.9	11.4101	1483.07	7.33494	1500.51	6.87481	1500.51	6.87481	98.0269
GBR-COV2-22	437.685	260942	2.32138	11.828	0.37702	2.51511	0.86462	0.2172	0.77806	0.89989	1267.06	8.95015	1276.41	6.28173	1292.17	7.33546	1292.17	7.33546	98.0567
GBR-COV2-22	338.483	117864	2.42759	13.0369	0.47088	1.89275	0.85416	0.18084	0.71254	0.83419	1071.55	7.03438	1078.55	5.67489	1092.73	9.43234	1092.73	9.43234	98.0622
GBR-COV2-22	230.414	274477	3.30532	13.482	0.43518	1.72068	0.76637	0.16962	0.6308	0.8231	1009.99	5.89702	1016.28	4.92148	1029.83	8.79818	1029.83	8.79818	98.0732
GBR-COV2-22	62.4187	359307	3.44552	9.84063	0.53437	3.93464	0.85864	0.28327	0.6721	0.78274	1607.8	9.56378	1620.84	6.95182	1637.79	9.9232	1637.79	9.9232	98.1686
GBR-COV2-22	32.3839	54687.4	1.99508	13.5194	0.80095	1.69496	1.05203	0.16795	0.67955	0.64594	1000.83	6.29947	1006.63	6.7185	1019.28	16.2625	1019.28	16.2625	98.1895
GBR-COV2-22	50.4727	79838.5	1.32198	10.0822	0.62878	3.7123	1.17951	0.27417	0.99742	0.84562	1561.93	13.8352	1574.02	9.43527	1590.26	11.7639	1590.26	11.7639	98.2183
GBR-COV2-22	168.434	97952.6	2.94412	12.6476	0.53781	2.0757	1.172	0.19229	1.04096	0.88819	1133.77	10.8225	1140.82	8.0313	1154.23	10.6673	1154.23	10.6673	98.2266
GBR-COV2-22	69.0753	102087	3.43014	12.3138	0.6295	2.24694	1.03609	0.2024	0.82246	0.79382	1188.21	8.92483	1195.83	7.28032	1209.65	12.3977	1209.65	12.3977	98.228
GBR-COV2-22	88.0193	110748	0.56276	17.6883	0.94379	0.54893	1.21171	0.07114	0.75989	0.62712	443.032	3.25348	444.292	4.36028	450.804	20.9621	443.032	3.25348	98.276
GBR-COV2-22	53.8509	76163.7	1.5104	5.82043	0.49891	11.2253	0.85737	0.4778	0.697	0.81295	2517.67	14.5271	2542.02	7.99365	2561.49	8.35486	2561.49	8.35486	98.2896
GBR-COV2-22	88.9357	130319	2.4194	13.4554	0.49568	1.72624	0.79428	0.17012	0.62004	0.78064	1012.76	5.81114	1018.35	5.10673	1030.37	10.0351	1030.37	10.0351	98.291
GBR-COV2-22	80.2663	48208.2	3.07682	12.4717	0.59062	2.16481	0.87141	0.19766	0.6404	0.7349	1162.74	6.81328	1169.82	6.05241	1182.95	11.6791	1182.95	11.6791	98.292
GBR-COV2-22	83.0125	294166	1.81701	13.5879	0.47268	1.69428	0.83268	0.16797	0.6855	0.82325	1000.9	6.35511	1006.38	5.31686	1018.29	9.57269	1018.29	9.57269	98.2921
GBR-COV2-22	100.002	1998187	0.66605	5.24773	0.38381	13.4758	0.80601	0.51727	0.70876	0.87934	2687.59	15.5767	2713.59	7.6189	2733	6.31514	2733	6.31514	98.3386
GBR-COV2-22	126.615	257202	3.10385	13.1923	0.51144	1.84236	0.84076	0.1778	0.66731	0.7937	1054.93	6.49385	1060.7	5.53352	1072.62	10.2626	1072.62	10.2626	98.3512
GBR-COV2-22	106.717	248086	2.52555	10.7509	0.41227	3.20049	0.86145	0.25174	0.75639	0.87804	1447.44	9.80623	1457.28	6.66475	1471.63	7.82492	1471.63	7.82492	98.356
GBR-COV2-22	192.473	402342	1.83209	9.69337	0.41407	4.08361	1.13137	0.28949	1.05287	0.93062	1638.99	15.2374	1651.03	9.22823	1666.38	7.6596	1666.38	7.6596	98.3561
GBR-COV2-22	276.472	331957	4.55248	9.23154	0.42949	4.56503	0.93178	0.30788	0.82689	0.88743	1730.25	12.548	1742.91	7.76118	1758.11	7.85529	1758.11	7.85529	98.4152
GBR-COV2-22	228.306	2080057	2.90787	9.23197	0.35751	4.57435	0.65528	0.30824	0.54916	0.83806	1732.05	8.34112	1744.61	5.46007	1759.67	6.53746	1759.67	6.53746	98.4301
GBR-COV2-22	178.113	106805	2.07119	10.8672	0.42658	3.13066	0.98254	0.24864	0.8851	0.90083	1431.47	11.3619	1440.26	7.56145	1453.23	8.11656	1453.23	8.11656	98.5029
GBR-COV2-22	16.33	95635.3	1.33538	9.22776	0.80686	4.54281	1.07667	0.30723	0.71284	0.66208	1727.04	10.7998	1738.85	8.96021	1753.05	14.7655	1753.05	14.7655	98.5162
GBR-COV2-22	250.235	94633.9	5.24507	13.4389	0.40607	1.73577	0.71218	0.17089	0.58507	0.82152	1017.02	5.50469	1021.89	4.58815	1032.32	8.2065	1032.32	8.2065	98.5183
GBR-COV2-22	88.3125	186836	5.00391	9.96548	0.46039	3.84667	0.82066	0.28018	0.67934	0.8278	1592.28	9.58465	1602.57	6.61364	1616.11	8.57192	1616.11	8.57192	98.5251
GBR-COV2-22	328.517	3197722	2.53677	13.9307	0.56208	1.55521	1.169	0.15849	1.02501	0.87682	948.405	9.03993	952.566	7.22463	962.21	11.4797	962.21	11.4797	98.5653
GBR-COV2-22	93.6427	184878	2.54555	10.6904	0.54579	3.2488	1.05481	0.25424	0.9026	0.85569	1460.28	11.7942	1468.89	8.18978	1481.33	10.3467	1481.33	10.3467	98.579
GBR-COV2-22	274.892	303484	4.35815	9.85669	0.37006	3.95151	0.78369	0.28457	0.6908	0.88148	1614.36	9.86523	1624.3	6.35043	1637.19	6.87285	1637.19	6.87285	98.6058
GBR-COV2-22	395.464	194247	4.99062	13.186	0.33762	1.86347	0.71997	0.17933	0.63587	0.88319	1063.32	6.23312	1068.22	4.75746	1078.25	6.75872	1078.25	6.75872	98.6154
GBR-COV2-22	210.818	110446	2.23006	12.1336	0.42563	2.34568	0.86048	0.20839	0.74727	0.86843	1220.23	8.30741	1226.25	6.12579	1236.85	8.36711	1236.85	8.36711	98.6562
GBR-COV2-22	189.086	156420	2.35877	12.2235	0.52557	2.32108	1.22006	0.20701	1.10097	0.90239	1212.86	12.1723	1218.75	8.65831	1229.22	10.3237	1229.22	10.3237	98.6686
GBR-COV2-22	65.5774	78901.6	4.68084	13.9736	0.68706	1.53082	1.05412	0.15681	0.79729	0.75636	939.042	6.96713	942.829	6.47423	951.678	14.1085	951.678	14.1085	98.6722
GBR-COV2-22	98.6068	143676	1.79377	9.5363	0.53164	4.25694	0.80053	0.29674	0.59833	0.74742	1675.13	8.82636	1685.08	6.58228	1697.46	9.79952	1697.46	9.79952	98.6845
GBR-COV2-22	234.693	498744	3.34239	10.6533	0.4522	3.28195	0.83798	0.25589	0.70549	0.8419	1468.78	9.26639	1476.78	6.52166	1488.28	8.56361	1488.28	8.56361	98.6895
GBR-COV2-22	39.5824	66765.1	1.85664	10.6602	0.89039	3.26541	1.2978	0.25516	0.94367	0.72713	1465.03	12.3666	1472.85	10.0886	1484.12	16.8818	1484.12	16.8818	98.7135
GBR-COV2-22	99.6949	100343	6.69083	12.8708	0.70929	1.98618	1.71853	0.18726	1.5647	0.91048	1106.51	15.9091	1110.82	11.6067	1119.29	14.1779	1119.29	14.1779	98.8583
GBR-COV2-22	133.99	168211	4.15552	9.28869	0.44111	4.51349	0.82922	0.30671	0.70215	0.84675	1724.49	10.6241	1733.46	6.89275	1744.28	8.08025	1744.28	8.08025	98.8658
GBR-COV2-22	73.6527	161476	2.81617	9.28419	0.3885	4.52144	0.72219	0.30704	0.60873	0.84289	1726.1	9.21816	1734.92	6.005	1745.56	7.11671	1745.56	7.11671	98.8854
GBR-COV2-22	37.5388	77202.9	2.18064	17.9361	1.43112	0.50587	1.59275	0.06649	0.69713	0.43769	414.955	2.80163	415.669	5.43292	419.61	31.9792	414.955	2.80163	98.8906
GBR-COV2-22	50.4122	586238	3.50356	5.29215	0.44482	13.4188	0.74997	0.51848	0.60381	0.80511	2692.75	13.2906	2709.58	7.08705	2722.15	7.33028	2722.15	7.33028	98.9201
GBR-COV2-22	126.033	117862	6.89045	8.82873	0.5837	5.04521	1.0766	0.32575	0.90452	0.84017	1817.76	14.3272	1826.94	9.12351	1837.42	10.5751	1837.42	10.5751	98.93
GBR-COV2-22	590.742	521884	3.91532	9.24053	0.35862	4.5738	0.66605	0.30911	0.56126	0.84267	1736.34	8.5433	1744.51	5.54969	1754.29	6.56221	1754.29	6.56221	98.9773
GBR-COV2-22	83.7845	434139	1.78064	10.895	0.5542	3.13601	0.81257	0.24944	0.59425	0.73132	1435.58	7.64777	1441.57	6.2559	1450.4	10.5487	1450.4	10.5487	98.9788
GBR-COV2-22	124.675	396156	3.8043	9.01052	0.52454	4.82829	0.82736	0.3183	0.63983	0.77334	1781.43	9.95883	1789.84	6.9596	1799.64	9.54454	1799.64	9.54454	98.9883
GBR-COV2-22	62.3166	62970.6	1.46903	12.3769	0.63431	2.23362	0.77736	0.20227	0.44374	0.57083	1187.51	4.81256	1191.66	5.45223	1199.2	12.5657	1199.2	12.5657	99.0258
GBR-COV2-22	80.3228	195932	3.09302	9.04113	0.4208	4.79972	0.82896	0.31737	0.71419	0.86155	1776.87	11.0915	1784.85	6.96595	1794.18	7.66281	1794.18	7.66281	99.0355
GBR-COV2-22	72.0797	138207	1.30462	9.01247	0.41878	4.82676	0.76976	0.31834	0.64575	0.8389	1781.61	10.0519	1789.57	6.47471	1798.85	7.62431	1798.85	7.62431	99.0417
GBR-COV2-22	93.5744	347912	3.86434	11.9172	0.54829	2.48786	1.02654	0.21663	0.86785	0.84541	1264.04	9.96142	1268.5	7.435	1276.06	10.6848	1276.06	10.6848	99.0577
GBR-COV2-22	296.814	2015821	5.2128	11.9915	0.39047	2.44997	0.80072	0.21457	0.69906	0.87304	1253.1	7.96111	1257.41	5.77377	1264.81	7.62676	1264.81	7.62676	99.0742
GBR-COV2-22	45.8215	110429	3.47142	13.7368	0.64238	1.62687	1.01517	0.1638	0.78571	0.77397	977.85	7.12876	980.651	6.38396	986.922	13.0809	986.922	13.0809	99.0807
GBR-COV2-22	263.357	274020	3.0395	12.7601	0.41953	2.06017	0.85251	0.19198	0.74212	0.87051	1132.08	7.70504	1135.68	5.82763	1142.57	8.32153	1142.57	8.32153	99.0818
GBR-COV2-22	116.113	137766	2.073	12.2545	0.44853	2.30904	0.72354	0.20672	0.56735	0.78413	1211.32	6.26535	1215.07	5.12656	1221.71	8.8242	1221.71	8.8242	99.15
GBR-COV2-22	68.5402	51735.6	0.83107	13.316	0.69092	1.79603	0.95982	0.17529	0.65923	0.68682	1041.2	6.33827	1044.02	6.26034	1049.93	14.0801	1049.93	14.0801	99.169
GBR-COV2-22	105.023	92446.6	2.30847	9.93626	0.43922	3.8844	0.65356	0.28265	0.48338	0.73962	1604.71	6.8668	1610.44	5.27752	1617.94	8.18735	1617.94	8.18735	99.182
GBR-COV2-22	178.728	188809	1.64303	9.74129	0.33366	4.08368	0.64564	0.29072	0.55271	0.85606	1645.11	8.02514	1651.05	5.26618	1658.6	6.1787	1658.6	6.1787	99.1865
GBR-COV2-22	249.546	150057	1.45874	11.94	0.39108	2.46179	0.92375	0.21532	0.8367	0.90577	1257.1	9.55619	1260.89	6.67026	1267.36	7.62448	1267.36	7.62448	99.1905
GBR-COV2-22	194.269	58995.9	0.98231	18.1164	0.69604	0.46754	1.07214	0.06221	0.8048	0.75065	389.039	3.03839	389.488	3.46825	392.135	15.8936	389.039	3.03839	99.2102
GBR-COV2-22	310.48	302317	3.7144	13.5928	0.36526	1.70101	0.68421	0.16897	0.57854	0.84556	1006.43	5.39085	1008.91	4.37526	1014.27	7.40239	1014.27	7.40239	99.2274
GBR-COV2-22	41.168	75865.4	2.29173	12.7998	0.58901	2.02829	0.83642	0.19013	0.59368	0.70979	1122.09	6.1141	1125.04	5.68844	1130.73	11.7333	1130.73	11.7333	99.2358
GBR-COV2-22	132.91	1354883	2.55505	9.29697	0.40552	4.53903	0.69245	0.30832	0.56128	0.81058	1732.43	8.52681	1738.15	5.76168	1745.03	7.42701	1745.03	7.42701	99.2781
GBR-COV2-22	266.977	318940	4.87034	10.8829	0.38344	3.15218	0.76004	0.25056	0.65622	0.86341	1441.34	8.47561	1445.53	5.85876	1451.69	7.29727	1451.69	7.29727	99.2871
GBR-COV2-22	236.081	2275471	8.04629	13.601	0.55848	1.69754	0.96635	0.16878	0.78862	0.81609	1005.36	7.34121	1007.61	6.17477	1012.47	11.3195	1012.47	11.3195	99.2982
GBR-COV2-22	83.7025	70894.6	1.33135	8.88504	0.43395	4.97916	0.73614	0.32413	0.59446	0.80754	1809.88	9.38062	1815.79	6.22459	1822.55	7.87649	1822.55	7.87649	99.3047
GBR-COV2-22	65.1668	476778	1.85914	13.6028	0.64121	1.70502	0.93198	0.1693	0.67633	0.7257	1008.23	6.31249	1010.42	5.96485	1015.15	12.9915	1015.15	12.9915	99.3179

GBR-COV2-22	87.0493	67436	3.4687	12.696	0.73908	2.07315	1.22664	0.19294	0.97788	0.7972	1137.3	10.1957	1139.97	8.40242	1145.05	14.6984	1145.05	14.6984	99.3228
GBR-COV2-22	61.627	222311	3.89206	12.6086	1.46177	2.13111	2.94977	0.19646	2.5621	0.86858	1156.28	27.1203	1158.94	20.3884	1163.91	28.9516	1163.91	28.9516	99.3445
GBR-COV2-22	146.471	87496.7	1.61375	13.7809	0.67462	1.62827	1.00728	0.16405	0.74792	0.74252	979.225	6.79469	981.191	6.33637	985.591	13.7266	985.591	13.7266	99.354
GBR-COV2-22	61.6938	68599.5	2.2936	10.0199	0.66558	3.80458	0.83851	0.27958	0.5092	0.60727	1589.26	7.17221	1593.71	6.7421	1599.59	12.4323	1599.59	12.4323	99.3544
GBR-COV2-22	48.7808	27661	5.79344	12.6073	0.66009	2.09064	0.88924	0.19404	0.56871	0.63955	1143.24	5.95786	1145.73	6.10781	1150.44	13.5555	1150.44	13.5555	99.3742
GBR-COV2-22	20.0708	25761.6	3.86942	9.91471	0.6895	3.8775	0.98973	0.28269	0.69697	0.70421	1604.89	9.90201	1609.01	7.98929	1614.38	13.0868	1614.38	13.0868	99.4121
GBR-COV2-22	18.6122	107908	3.84547	12.6942	1.0306	2.09178	1.24242	0.19417	0.69356	0.55823	1143.94	7.26978	1146.11	8.53526	1150.2	20.4795	1150.2	20.4795	99.456
GBR-COV2-22	196.383	157673	3.64668	9.07724	0.4132	4.78976	0.74685	0.31776	0.62202	0.83286	1778.78	9.66912	1783.1	6.27365	1788.15	7.53221	1788.15	7.53221	99.4761
GBR-COV2-22	67.3248	294092	2.56	13.133	0.69817	1.89611	0.97944	0.18201	0.68691	0.70133	1077.93	6.81844	1079.73	6.51124	1083.37	14.0023	1083.37	14.0023	99.4975
GBR-COV2-22	95.7915	310194	1.0912	8.78885	0.45067	5.14532	0.87516	0.3302	0.75019	0.85721	1839.33	12.0046	1843.62	7.44032	1848.45	8.14995	1848.45	8.14995	99.5064
GBR-COV2-22	69.0551	33564.3	3.27976	12.4298	0.73094	2.1931	0.93866	0.20028	0.58622	0.62453	1176.82	6.30566	1178.85	6.54619	1182.61	14.4782	1182.61	14.4782	99.5107
GBR-COV2-22	86.4277	99164.2	2.52287	10.845	0.52512	3.19218	0.77618	0.2527	0.57152	0.73632	1452.36	7.43192	1455.27	6.0013	1459.49	9.98424	1459.49	9.98424	99.5114
GBR-COV2-22	151.887	513883	1.2239	9.99632	0.41324	3.85272	0.74891	0.2818	0.62458	0.83398	1600.44	8.85183	1603.84	6.03737	1608.28	7.70304	1608.28	7.70304	99.5126
GBR-COV2-22	99.3544	253033	2.87954	12.1581	0.50112	2.36096	0.88245	0.20999	0.72634	0.82309	1228.74	8.12582	1230.88	6.29437	1234.63	9.84113	1234.63	9.84113	99.5231
GBR-COV2-22	124.963	118500	2.99412	9.30163	0.45278	4.53314	1.01413	0.30853	0.90735	0.89471	1733.49	13.7916	1737.07	8.4365	1741.37	8.30001	1741.37	8.30001	99.5472
GBR-COV2-22	47.3369	164782	0.93799	5.41872	0.41135	12.985	0.83544	0.5136	0.72715	0.87038	2671.98	15.9059	2678.57	7.87655	2683.54	6.79998	2683.54	6.79998	99.5692
GBR-COV2-22	120.405	253320	3.80834	11.8529	0.4537	2.52887	0.84773	0.21937	0.71607	0.84469	1278.56	8.30461	1280.37	6.16855	1283.41	8.83813	1283.41	8.83813	99.6223
GBR-COV2-22	41.559	113632	1.79713	13.2329	0.73215	1.85187	0.99636	0.17928	0.67575	0.67822	1063.03	6.62245	1064.1	6.56954	1066.29	14.7026	1066.29	14.7026	99.6941
GBR-COV2-22	186.484	97292	4.14233	13.4867	0.52858	1.74067	0.8017	0.17193	0.60204	0.75096	1022.75	5.69377	1023.71	5.17016	1025.74	10.7094	1025.74	10.7094	99.7086
GBR-COV2-22	99.7724	118779	7.67386	13.8475	0.61439	1.60174	1.02575	0.1624	0.82109	0.80047	970.091	7.39492	970.891	6.41219	972.721	12.5309	972.721	12.5309	99.7297
GBR-COV2-22	117.546	100701	1.8249	7.78682	0.42341	6.60645	0.66919	0.37607	0.51806	0.77417	2057.9	9.127	2060.21	5.90159	2062.5	7.47154	2062.5	7.47154	99.7767
GBR-COV2-22	229.609	97822.3	4.09194	13.5404	0.49532	1.7272	1.04427	0.17107	0.91923	0.88026	1018	8.65625	1018.71	6.71543	1020.21	10.032	1020.21	10.032	99.7834
GBR-COV2-22	252.438	86843.2	3.45315	13.388	0.51962	1.78996	1.25259	0.17528	1.13954	0.90975	1041.11	10.9554	1041.81	8.16004	1043.29	10.5108	1043.29	10.5108	99.7913
GBR-COV2-22	153.725	175120	2.86036	13.7668	0.5744	1.63647	1.80172	0.16487	1.70764	0.94778	983.776	15.5803	984.352	11.3559	985.639	11.695	985.639	11.695	99.811
GBR-COV2-22	194.605	116551	2.72468	14.1418	0.56567	1.50476	1.04595	0.15554	0.87967	0.84103	931.93	7.63294	932.318	6.38043	933.256	11.5956	933.256	11.5956	99.8579
GBR-COV2-22	197.176	157014	4.03	13.4101	0.59626	1.77718	0.88822	0.17447	0.65825	0.74108	1036.71	6.30367	1037.15	5.77143	1038.05	12.0606	1038.05	12.0606	99.8712
GBR-COV2-22	701.127	407811	2.29261	17.999	0.50018	0.50117	0.9604	0.06607	0.81986	0.85366	412.418	3.27535	412.495	3.25567	412.905	11.1829	412.418	3.27535	99.8819
GBR-COV2-22	183.663	367813	1.15295	10.6286	0.41648	3.35025	0.7288	0.26046	0.59807	0.82063	1492.17	7.96671	1492.85	5.69908	1493.8	7.88125	1493.8	7.88125	99.8911
GBR-COV2-22	154.061	550271	2.11018	11.2489	0.51134	2.90983	1.38017	0.23947	1.28195	0.92884	1383.93	15.9662	1384.47	10.4301	1385.28	9.81925	1385.28	9.81925	99.902
GBR-COV2-22	275.279	195639	1.74343	9.76065	0.38833	4.08886	0.79603	0.29198	0.69481	0.87285	1651.41	10.1223	1652.08	6.49449	1652.92	7.19951	1652.92	7.19951	99.9088
GBR-COV2-22	342.518	494533	4.64618	10.969	0.38381	3.1047	0.87448	0.249	0.78575	0.89853	1433.33	10.0981	1433.86	6.71621	1434.62	7.3212	1434.62	7.3212	99.9099
GBR-COV2-22	112.803	79197.2	1.8113	13.9471	0.58659	1.55872	0.83579	0.15945	0.59366	0.7103	953.699	5.26284	953.959	5.16985	954.539	12.0399	954.539	12.0399	99.9121
GBR-COV2-22	242.036	113947	3.91476	8.97145	0.34683	4.92985	0.65091	0.32348	0.5508	0.8462	1806.69	8.6784	1807.38	5.4947	1808.16	6.30453	1808.16	6.30453	99.9184
GBR-COV2-22	131.143	147159	2.57955	10.6645	0.45672	3.32708	0.82094	0.25943	0.68204	0.83081	1486.92	9.05679	1487.43	6.40934	1488.13	8.65267	1488.13	8.65267	99.9189
GBR-COV2-22	159.19	109525	2.36376	10.0948	0.44523	3.7896	0.80659	0.27974	0.67223	0.83342	1590.06	9.47267	1590.54	6.48014	1591.16	8.3277	1591.16	8.3277	99.9311
GBR-COV2-22	112.726	303959	5.00916	13.1534	0.50896	1.88485	0.7592	0.18157	0.56333	0.742	1075.56	5.58041	1075.77	5.03669	1076.19	10.2079	1076.19	10.2079	99.9414
GBR-COV2-22	73.5078	76984.4	4.64895	8.98638	0.45408	4.89696	0.84022	0.32244	0.7064	0.84073	1801.64	11.1031	1801.73	7.08485	1801.82	8.27592	1801.82	8.27592	99.9901
GBR-COV2-22	56.2208	5275111	2.60582	11.4727	0.63009	2.78564	0.96634	0.23327	0.73267	0.75819	1351.64	8.93382	1351.69	7.22029	1351.76	12.1565	1351.76	12.1565	99.9911
GBR-COV2-22	196.66	391394	1.53041	13.5341	0.59456	1.73455	1.40924	0.1717	1.27768	0.90664	1021.47	12.0697	1021.44	9.07671	1021.35	12.0354	1021.35	12.0354	100.012
GBR-COV2-22	63.7035	102572	2.44055	14.384	0.65019	1.41301	0.82715	0.14887	0.50945	0.6159	894.604	4.25544	894.424	4.91819	894	13.4328	894.604	4.25544	100.068
GBR-COV2-22	162.803	142691	3.85499	12.5898	0.52037	2.15529	0.74469	0.19846	0.53254	0.71511	1167.05	5.6849	1166.76	5.16508	1166.2	10.33	1166.2	10.33	100.073
GBR-COV2-22	30.3175	154446	1.07689	5.05763	0.52688	14.6708	0.80971	0.54284	0.61482	0.75931	2795.33	13.945	2794.13	7.69714	2793.25	8.62671	2793.25	8.62671	100.074
GBR-COV2-22	14.2761	97514.5	5.3444	10.9625	1.25372	3.11676	1.74368	0.24978	1.21183	0.69499	1437.33	15.6129	1436.83	13.4051	1436.08	23.9108	1436.08	23.9108	100.087
GBR-COV2-22	84.3934	44887.1	1.95044	13.1542	0.53493	1.87492	0.86394	0.18104	0.67829	0.78511	1072.64	6.70251	1072.27	5.72102	1071.54	10.7501	1071.54	10.7501	100.103
GBR-COV2-22	176.068	676593	2.74863	13.3526	0.47182	1.82045	0.89968	0.17752	0.76603	0.85145	1053.42	7.44474	1052.85	5.89633	1051.67	9.52715	1051.67	9.52715	100.167
GBR-COV2-22	223.264	206846	1.33695	17.7786	0.49028	0.54678	0.60741	0.07114	0.35843	0.59009	443.02	1.53458	442.888	2.18021	442.179	10.9288	443.02	1.53458	100.19
GBR-COV2-22	73.8306	1267446	1.79827	13.6639	1.36238	1.68772	1.55246	0.16863	0.74434	0.47946	1004.58	6.92402	1003.9	9.89873	1002.4	27.6521	1002.4	27.6521	100.217
GBR-COV2-22	84.3678	51835.3	2.22864	9.83632	0.45936	4.0121	0.83576	0.28933	0.69819	0.83539	1638.2	10.1002	1636.65	6.79316	1634.64	8.53404	1634.64	8.53404	100.218
GBR-COV2-22	173.018	88829.9	5.26342	13.4896	0.50894	1.75965	0.81584	0.17355	0.63755	0.78147	1031.66	6.07802	1030.72	5.28214	1028.7	10.2926	1028.7	10.2926	100.287
GBR-COV2-22	60.5332	65344.2	2.62944	11.6668	0.71627	2.6493	0.98817	0.22646	0.68069	0.68885	1315.91	8.10228	1314.45	7.28431	1312.04	13.8979	1312.04	13.8979	100.295
GBR-COV2-22	78.7728	103039	2.17818	10.6923	0.57848	3.32689	1.56381	0.25995	1.45273	0.92897	1489.58	19.3215	1487.38	12.2095	1484.23	10.9678	1484.23	10.9678	100.361
GBR-COV2-22	156.192	119265	1.47603	13.2483	1.0706	1.86173	1.76316	0.18035	1.40087	0.79452	1068.9	13.7983	1067.6	11.6474	1064.96	21.5312	1064.96	21.5312	100.37
GBR-COV2-22	53.7297	55565.1	3.89475	14.0444	0.8906	1.52873	1.23174	0.15758	0.85046	0.69045	943.328	7.46327	941.987	7.56111	938.871	18.2466	938.871	18.2466	100.475
GBR-COV2-22	227.326	145536	3.7634	13.4086	0.45612	1.79077	0.98565	0.17575	0.87364	0.88636	1043.74	8.41864	1042.11	6.42206	1038.66	9.23323	1038.66	9.23323	100.489
GBR-COV2-22	90.6076	136555	1.5363	14.1087	0.81991	1.52161	1.45901	0.15708	1.2067	0.82707	940.509	10.5601	939.127	8.93976	935.868	16.8004	935.868	16.8004	100.496
GBR-COV2-22	86.8685	112803	1.93931	12.6453	0.60018	2.12917	0.90486	0.19722	0.67635	0.74746	1160.34	7.18217	1158.32	6.25169	1154.51	11.9104	1154.51	11.9104	100.505
GBR-COV2-22	9.83484	8046.84	1.48487	9.94899	1.1069	3.79638	1.40153	0.28082	0.79678	0.5685	1595.49	11.2615	1591.98	11.2643	1587.31	21.5505	1587.31	21.5505	100.515
GBR-COV2-22	168.829	104066	1.64564	14.0052	0.51783	1.55542	0.7015	0.15953	0.47322	0.67458	954.187	4.19714	952.65	4.33559	949.081	10.5992	949.081	10.5992	100.538
GBR-COV2-22	140.773	100144	1.18106	10.0481	0.44263	3.84848	0.67752	0.28314	0.51269	0.75671	1607.16	7.29287	1602.95	5.46061	1597.41	8.26818	1597.41	8.26818	100.61
GBR-COV2-22	65.6894	58130.6	2.8892	10.5892	0.53959	3.38512	1.57931	0.26308	1.48423	0.93979	1505.6	19.9289	1500.96	12.3797	1494.38	10.2125	1494.38	10.2125	100.751
GBR-COV2-22	192.361	497472	2.04476	9.23445	0.40995	4.69115	0.68588	0.31675	0.54988	0.80171	1773.82	8.52692	1765.66	5.74063	1756.02	7.49984	1756.02	7.49984	101.014
GBR-COV2-22	79.3753	89775.5	2.45018	13.3916	0.99702	1.80946	1.28826	0.17734	0.81491	0.63257	1052.45	7.91304	1048.88	8.425	1041.44	20.155	1041.44	20.155	101.057
GBR-COV2-22	79.3939	227171	2.25487	9.45253	0.72764	4.47531	0.93482	0.30884	0.58686	0.62778	1734.99	8.92684	1726.4	7.75857	1716	13.3772	1716	13.3772	101.106
GBR-COV2-22	122.043	272859	2.04709	12.3787	0.54567	2.27901	0.75232	0.20662	0.51791	0.68842	1210.79	5.71712	1205.81	5.30937	1196.91	10.7549	1196.91	10.7549	101.159
GBR-COV2-22	164.134	7584630	1.99204	13.3407	0.43985	1.84753	0.71729	0.17994	0.5666	0.78992	1066.64	5.57004	1062.55	4.72554	1054.18	8.86008	1054.18	8.86008	101.181
GBR-COV2-22	291.979	60438.7	6.04353	17.4047	0.6193	0.61844	1.08385	0.07896	0.88857	0.81982	489.9	4.19179	488.867	4.20536	484.054	13.6832	489.9	4.19179	101.208
GBR-COV2-22	98.5033	157392	2.91335	12.8742	0.53417	2.04728	0.74689	0.19276	0.5219	0.69876	1136.3	5.43702	1131.39	5.09515	1122.01	10.6541	1122.01	10.6541	101.273
GBR-COV2-22	85.8509	115352	1.44162	13.87	0.62181	1.61317	0.85014	0.16404	0.57929	0.6814	979.168	5.26241	975.34	5.32888	966.708	12.7207	966.708	12.7207	101.289
GBR-COV2-22	81.3708	49485.2	3.01997	11.3929	0.61931	2.85209	0.94872	0.238	0.71752	0.75631	1376.3	8.8923	1369.36	7.13251	1358.53	11.9638	1358.53	11.9638	101.308
GBR-COV2-22	115.488	171493	3.61905	13.2919	0.45586	1.85878	0.76724	0.18083	0.61704	0.80422	1071.5	6.09127	1066.55	5.06541	1056.47	9.18157	1056.47	9.18157	101.422
GBR-COV2-22	152.081	92415.9	1.59271	9.23884	0.42039	4.7002	0.77348	0.3178	0.64909	0.83917	1778.97	10.0908	1767.28	6.4761	1753.46	7.69831	1753.46	7.69831	101.455
GBR-COV2-22	39.8137	41460.1	3.27469	12.885	0.63396	2.02644	0.90025	0.19161	0.63636	0.70688	1130.07	6.5963	1124.42	6.12067	1113.54	12.725	1113.54	12.725	101.484
GBR-COV2-22	29.3528	36665.1	2.1876	16.399	1.37371	0.83208	1.66473	0.10039	0.92858	0.5578	616.706	5.46122	614.766	7.6772	607.609	29.8772	616.706	5.46122	101.497
GBR-COV2-22	67.4913	30078.2	2.12738	17.9149	1.07704	0.49127	1.31208	0.06512	0.74742	0.56965	406.683	2.94575	405.776	4.38891	400.597	24.1602	406.683	2.94575	101.519
GBR-COV2-22	28.8077	30137.4	3.81883	13.5593	0.83992	1.71818	1.06796	0.17155	0.65833	0.61644	1020.67	6.21447	1015.34	6.85461	1003.85	17.061	1003.85	17.061	101.676
GBR-COV2-22	72.0624	18243	0.84087	17.7592	0.99877	0.51891	1.52749	0.06824	1.13296	0.74171	425.52	4.66531	424.421	5.29873	418.434	22.8814	425.52	4.66531	101.694
GBR-COV2-22	88.1212	643989	1.79492	13.968	0.56072	1.59654	0.87724	0.16308	0.67464	0.76905	973.894	6.09806	968.859	5.47691	957.437	11.4679	957.437	11.4679	101.719
GBR-COV2-22	87.8411	86656.7	9.5696	13.256	0.58699	1.88101	0.84785	0.18248	0.61076	0.72037	1080.53	6.07603	1074.42	5.62082	1062.06	11.8302	1062.06	11.8302	101.739
GBR-COV2-22	187.784	236932	4.79633	12.7221	0.62253	2.12838	1.38612	0.19828	1.23845	0.89346	1166.05	13.2102	1158.06	9.57576	1143.16	12.3673	1143.16	12.3673	102.002
GBR-COV2-22	112.676	39764	0.99708	18.3549	1.27892	0.43791	2.04225	0.05905	1.56657	0.76708	369.816	5.63038	368.777	6.31533	362.229	29.5453	369.816	5.63038	102.095
GBR-COV2-22	551.03	855704	3.09444	12.8818	1.45806	2.04278	2.42226	0.19305	1.93426	0.79854	1137.9	20.1769	1129.89	16.5135	1114.55	29.1002	1114.55	29.1002	102.095
GBR-COV2-22	118.187	151047	3.80739	13.0706	0.46386	1.95089	0.91213	0.18726	0.78522	0.86086	1106.53	7.98384	1098.75	6.12308	1083.39	9.30719	1083.39	9.30719	102.136
GBR-COV2-22	53.557	46733.6	1.87846	13.7823	0.75556	1.65483	1.04769	0.16749	0.72414	0.69118	998.25	6.69687	991.4	6.63109	976.266	15.4137	976.266	15.4137	102.252
GBR-COV2-22	428.03	175715	6.05861	17.023	0.53829	0.71433	1.47643	0.08901	1.37474	0.93113	549.704	7.24379	547.314	6.24671	537.358	11.773	549.704	7.24379	102.298
GBR-COV2-22	141.074	101397	2.89692	12.6514	0.48564	2.16636	0.83669	0.20091	0.68093	0.81384	1180.19	7.34359	1170.31	5.81262	1152.07	9.65235	1152.07	9.65235	102.44
GBR-COV2-22	179.996	80046.4	2.0737	18.119	0.73641	0.49025	1.20279	0.0651	0.94931	0.78926	406.561	3.74035	405.083	4.01776	396.645	16.559	406.561	3.74035	102.5
GBR-COV2-22	224.782	35217.6	2.03627	17.7826	0.66565	0.54101	0.98804	0.07078	0.73012	0.73895	440.883	3.11136	439.089	3.52214	429.669	14.8395	440.883	3.11136	102.61
GBR-COV2-22	64.9335	51375.5	2.80882	13.6598	0.57185	1.71532	0.86169	0.1719	0.63857	0.74106	1022.54	6.03811	1014.28	5.52727	996.454	11.7375	996.454	11.7375	102.618
GBR-COV2-22	58.7973	41242.8	1.2571	13.138	0.7004	1.94663	1.04895	0.18746	0.77436	0.73822	1107.59	7.88041	1097.29	7.03641	1076.89	14.2036	1076.89	14.2036	102.851
GBR-COV2-22	101.758	119285	3.4286	12.6678	0.58412	2.18139	0.89014	0.20224	0.67158	0.75447	1187.33	7.2826	1175.12	6.19738	1152.69	11.5913	1152.69	11.5913	103.005
GBR-COV2-22	64.3522	145136	4.24457	10.7159	0.59228	3.41033	0.91471	0.26716	0.69698	0.76197	1526.39	9.47296	1506.78	7.18202	1479.3	11.2317	1479.3	11.2317	103.183
GBR-COV2-22	277.722	102489	1.87946	16.9056	0.52459	0.73789	0.96064	0.09155	0.80407	0.83701	564.706	4.34742	561.172	4.14156	546.85	11.4826	564.706	4.34742	103.265

GBR-COV2-22	163.509	22046	2.43405	17.97	0.84571	0.4965	1.15249	0.06588	0.78272	0.67915	411.307	3.11881	409.333	3.88253	398.192	18.9604	411.307	3.11881	103.294
GBR-COV2-22	56.7075	74182.9	5.50313	13.853	0.71006	1.65802	1.07426	0.16834	0.80459	0.74897	1002.96	7.47328	992.618	6.80417	969.805	14.5226	969.805	14.5226	103.419
GBR-COV2-22	74.593	45078.7	0.81207	13.6188	0.59225	1.76267	0.8384	0.17595	0.5802	0.69203	1044.81	5.59624	1031.83	5.43161	1004.39	12.263	1004.39	12.263	104.024
GBR-COV2-22	114.56	238592	1.99162	14.093	2.77918	1.58356	5.30018	0.16335	4.5131	0.8515	975.367	40.8515	963.769	32.9981	937.384	56.9875	937.384	56.9875	104.052
GBR-COV2-22	79.7251	330806	2.74222	12.8619	0.5679	2.13132	0.99088	0.19999	0.81199	0.81946	1175.27	8.72368	1159.01	6.84826	1128.77	11.2942	1128.77	11.2942	104.12
GBR-COV2-22	197.704	66913.3	1.17667	18.1154	0.74049	0.49668	0.9715	0.066	0.62399	0.64229	411.996	2.49038	409.451	3.27356	395.105	16.698	411.996	2.49038	104.275
GBR-COV2-22	79.4691	267749	3.19214	12.2558	0.47699	2.42963	0.65568	0.21791	0.44987	0.68611	1270.82	5.18876	1251.41	4.71647	1218.18	9.39707	1218.18	9.39707	104.321
GBR-COV2-22	30.7144	15607.5	2.75962	13.6214	1.11215	1.70906	1.30183	0.17244	0.67583	0.51914	1025.54	6.40773	1011.93	8.33937	982.609	22.6386	982.609	22.6386	104.369
GBR-COV2-22	160.231	105677	2.15633	17.9268	0.77847	0.53931	1.13169	0.07079	0.82112	0.72557	440.942	3.49962	437.971	4.02598	422.359	17.3808	440.942	3.49962	104.4
GBR-COV2-22	157.029	117619	3.03719	11.8822	0.33823	2.65417	0.61723	0.23074	0.51621	0.83634	1338.38	6.23889	1315.8	4.55218	1279.18	6.59554	1279.18	6.59554	104.628
GBR-COV2-22	153.637	29959.4	1.89438	17.5386	0.8005	0.6024	1.13543	0.07777	0.80031	0.70486	482.788	3.72268	478.755	4.33417	459.486	17.8609	482.788	3.72268	105.071
GBR-COV2-22	100.43	86292.4	1.31019	17.9931	0.88664	0.52534	1.15198	0.06935	0.73464	0.63772	432.25	3.07135	428.712	4.02857	409.717	19.8481	432.25	3.07135	105.5
GBR-COV2-22	102.341	394853	2.0331	18.1023	0.8109	0.51474	2.16855	0.06825	2.01123	0.92745	425.581	8.28301	421.632	7.4827	400.069	18.1695	425.581	8.28301	106.377
GBR-COV2-22	180.091	47169.6	3.85754	18.0222	0.63688	0.52166	0.8075	0.06907	0.49109	0.60817	430.556	2.04538	426.258	2.81086	403.056	14.3545	430.556	2.04538	106.823
GBR-COV2-22	146.76	111346	1.70374	17.2907	0.7162	0.68796	1.48542	0.0871	1.30125	0.87601	538.383	6.72114	531.576	6.14732	502.438	15.7527	538.383	6.72114	107.154
GBR-COV2-22	101.288	52238.4	3.49538	17.6982	0.84277	0.5889	1.13068	0.0766	0.75169	0.66481	475.8	3.44772	470.166	4.25518	442.731	18.7842	475.8	3.44772	107.469
GBR-COV2-22	249.791	93324.8	2.51439	17.7631	0.61671	0.58609	1.2295	0.07641	1.06214	0.86388	474.638	4.8602	468.37	4.61317	437.746	13.7847	474.638	4.8602	108.428
GBR-COV2-22	149.169	69615	2.6096	18.2654	0.81338	0.48709	1.11726	0.0653	0.76269	0.68264	407.748	3.01353	402.928	3.71587	375.363	18.373	407.748	3.01353	108.628
GBR-COV2-22	73.1989	18155.6	4.38141	18.0424	0.82415	0.4999	1.15483	0.0669	0.74029	0.64104	417.438	2.99234	411.632	3.90814	379.183	19.9327	417.438	2.99234	110.089
GBR-COV2-22	138.739	18955.7	1.15059	17.8441	0.625	0.554	1.02043	0.07329	0.79069	0.77485	455.939	3.48051	447.616	3.69383	405.049	14.4407	455.939	3.48051	112.564
GBR-COV2-22	48.241	6319.87	1.44611	17.7573	1.13727	0.53667	1.31736	0.07264	0.65991	0.50093	452.011	2.88068	436.223	4.67154	353.706	25.7559	452.011	2.88068	127.793
GBR-COV2-22	104.48	75609.7	1.68165	18.6815	1.17366	0.58082	3.43336	0.07964	3.22634	0.9397	493.978	15.3421	464.986	12.8094	324.207	26.6683	493.978	15.3421	152.365

WELL-20 (used in complied Garber-Wellington dataset) (35.623088˚/-97.999700˚)

Sample	206Pb	U/Th	206Pb*	±	207Pb*	±	206Pb*	±	error	206Pb*	±	207Pb*	±	206Pb*	±	Best age	±	Conc
	204Pb		207Pb*	(%)	235U	(%)	238U	(%)	corr.	238U	(Ma)	235U	(Ma)	207Pb*	(Ma)	(Ma)	(Ma)	(%)
WELL-20	90680.9	1.95843	13.6197	0.93398	1.69881	1.67749	0.16726	1.39296	0.83038	997.01	12.8673	1008.08	10.7221	1032.21	18.9087	1032.21	18.9087	96.5901
WELL-20	97029.8	1.77176	7.87064	0.8218	6.57802	1.56505	0.37388	1.33182	0.85097	2047.61	23.3639	2056.41	13.7951	2065.22	14.4923	2065.22	14.4923	99.1474
WELL-20	176978	1.07032	13.2516	1.49087	1.86382	1.8821	0.17836	1.14873	0.61034	1058	11.2086	1068.34	12.4381	1089.5	29.8609	1089.5	29.8609	97.1081
WELL-20	114670	1.49151	10.8105	0.88264	3.32291	1.47255	0.25947	1.17849	0.8003	1487.14	15.6511	1486.45	11.4937	1485.45	16.7271	1485.45	16.7271	100.113
WELL-20	3097750	1.35728	10.7347	0.77839	3.36477	1.43312	0.26094	1.20331	0.83964	1494.63	16.0524	1496.23	11.2183	1498.48	14.7208	1498.48	14.7208	99.7429
WELL-20	27019.4	2.83669	9.63185	1.05697	3.99274	1.49572	0.27917	1.05793	0.70731	1587.2	14.8841	1632.72	12.146	1691.85	19.4983	1691.85	19.4983	93.8142
WELL-20	1689873	1.5438	9.75124	0.89949	4.1288	1.34328	0.29086	0.99766	0.7427	1645.83	14.4913	1660.02	10.9805	1678	16.6163	1678	16.6163	98.0832
WELL-20	50394.9	2.17115	13.4548	0.74216	1.85086	1.46782	0.18058	1.26546	0.86214	1070.14	12.478	1063.73	9.67637	1050.63	15.0067	1050.63	15.0067	101.857
WELL-20	42762.6	0.9391	13.3298	1.19153	1.8393	1.84853	0.17763	1.41143	0.76354	1054.03	13.7243	1059.61	12.1596	1071.15	23.9679	1071.15	23.9679	98.401
WELL-20	21047.8	2.41739	13.5177	0.94012	1.77999	1.52545	0.1752	1.20125	0.78747	1040.68	11.5443	1038.18	9.91783	1032.89	19.0184	1032.89	19.0184	100.754
WELL-20	8181.19	1.63056	13.6149	1.40573	1.67314	2.23405	0.16834	1.54381	0.69104	1002.97	14.3396	998.377	14.1991	988.322	32.855	988.322	32.855	101.482
WELL-20	296707	0.6741	10.7374	0.9534	3.38959	1.52827	0.26271	1.19442	0.78155	1503.71	16.0197	1501.99	11.9832	1499.55	18.0282	1499.55	18.0282	100.277
WELL-20	171729	0.99017	5.75075	0.95565	11.3846	1.62038	0.4732	1.30856	0.80756	2497.6	27.0956	2555.17	15.1257	2601.16	15.9276	2601.16	15.9276	96.0187
WELL-20	374847	4.59319	8.42044	0.91128	5.73078	1.60649	0.34874	1.32302	0.82355	1928.59	22.0527	1936.02	13.8894	1943.96	16.2965	1943.96	16.2965	99.2094
WELL-20	205232	3.04984	12.3679	1.02825	2.36744	1.68323	0.21172	1.33263	0.79171	1238	15.0105	1232.83	12.0164	1223.79	20.2183	1223.79	20.2183	101.161
WELL-20	194431	2.26241	5.8574	0.65054	11.8922	1.19907	0.50345	1.00725	0.84003	2628.6	21.7432	2595.95	11.2312	2570.56	10.8764	2570.56	10.8764	102.258
WELL-20	56853.9	2.66489	13.5067	1.00336	1.83752	1.65837	0.17992	1.32026	0.79612	1066.53	12.9779	1058.98	10.9049	1043.45	20.2659	1043.45	20.2659	102.213
WELL-20	104370	3.68457	9.12285	0.94373	5.08229	1.44815	0.33489	1.0984	0.75849	1862.04	17.7639	1833.15	12.2873	1800.49	17.1688	1800.49	17.1688	103.419
WELL-20	15613.2	6.05886	12.9418	1.26555	2.02101	2.08954	0.19094	1.64685	0.78814	1126.46	17.0207	1122.6	14.1947	1115.16	25.6833	1115.16	25.6833	101.013
WELL-20	31414.4	2.10507	13.408	1.05634	1.84003	1.51384	0.17907	1.08343	0.71568	1061.9	10.6074	1059.87	9.95922	1055.7	21.2968	1055.7	21.2968	100.587
WELL-20	442351	0.65715	10.6198	0.97105	3.38407	1.50003	0.25936	1.14331	0.76219	1486.55	15.1786	1500.71	11.7574	1520.76	18.3088	1520.76	18.3088	97.7504
WELL-20	32221.2	0.72697	14.1833	2.51753	0.67787	2.89942	0.0698	1.4364	0.49541	434.961	6.04166	525.487	11.8946	941.012	51.6174	434.961	6.04166	46.2227
WELL-20	1316174	2.63067	11.2181	0.78337	2.94492	1.43918	0.23837	1.2073	0.83888	1378.19	14.9806	1393.54	10.9093	1417.09	14.9782	1417.09	14.9782	97.2553
WELL-20	48981.6	3.2173	12.9454	1.03229	2.08621	1.53802	0.19548	1.13493	0.73792	1151	11.9633	1144.28	10.557	1131.55	20.6681	1131.55	20.6681	101.719
WELL-20	161884	2.61607	13.4008	0.75243	1.88215	1.4135	0.1821	1.1964	0.8464	1078.41	11.8807	1074.82	9.37295	1067.55	15.1331	1067.55	15.1331	101.018
WELL-20	573786	3.20913	12.5875	0.81603	2.23747	1.34929	0.20316	1.07455	0.79639	1192.27	11.6966	1192.86	9.46887	1193.93	16.0982	1193.93	16.0982	99.8605
WELL-20	116718	2.75282	10.9318	0.81801	3.28425	1.45464	0.25924	1.20272	0.82681	1485.93	15.9614	1477.33	11.3231	1464.97	15.5433	1464.97	15.5433	101.431
WELL-20	2641624	3.58729	11.0764	0.78192	3.25647	1.59308	0.26013	1.38799	0.87126	1490.52	18.4708	1470.72	12.3762	1442.23	14.8996	1442.23	14.8996	103.348
WELL-20	34098.3	1.17309	9.7499	1.1657	4.17038	1.71699	0.29438	1.25006	0.72805	1663.37	18.3271	1668.22	14.063	1674.31	21.7545	1674.31	21.7545	99.3462
WELL-20	147850	1.61222	9.8203	0.79572	4.16779	1.34321	0.29543	1.08213	0.80563	1668.59	15.9088	1667.71	11	1666.58	14.7207	1666.58	14.7207	100.121
WELL-20	175282	2.65062	12.1165	0.95184	2.41229	1.65822	0.21099	1.35778	0.81882	1234.07	15.2498	1246.27	11.9036	1267.39	18.5695	1267.39	18.5695	97.3716
WELL-20	43508.5	2.82285	13.0874	0.90683	2.04529	1.60997	0.194	1.32841	0.82512	1142.99	13.9137	1130.73	10.9797	1107.24	18.195	1107.24	18.195	103.229
WELL-20	92963.1	5.24417	13.5252	1.04127	1.7958	1.6812	0.17564	1.31972	0.78498	1043.13	12.7103	1043.93	10.9652	1045.64	21.0263	1045.64	21.0263	99.76
WELL-20	254992	2.85603	13.3673	1.0496	1.83257	1.59115	0.17698	1.19586	0.75157	1050.45	11.5918	1057.2	10.4529	1071.19	21.0876	1071.19	21.0876	98.0638
WELL-20	123346	4.14805	13.9171	1.1189	1.5476	1.96577	0.15574	1.61608	0.82211	933.052	14.0385	949.536	12.1258	987.924	22.7656	987.924	22.7656	94.4458
WELL-20	46995.4	2.2209	13.5894	1.11348	1.71772	1.64063	0.16921	1.20445	0.73414	1007.78	11.237	1015.17	10.5294	1031.15	22.5358	1031.15	22.5358	97.7334
WELL-20	40921.7	3.3972	13.8276	0.93119	1.70107	1.47534	0.17063	1.13434	0.76887	1015.59	10.6586	1008.93	9.43453	994.529	19.1693	994.529	19.1693	102.117
WELL-20	96120.9	2.41401	17.916	0.91558	0.58168	1.50477	0.07552	1.19338	0.79307	469.346	5.40206	465.541	5.61915	446.798	20.3715	469.346	5.40206	105.047
WELL-20	80672.1	1.02981	10.7275	0.77777	3.42687	1.23208	0.26589	0.95531	0.77536	1519.89	12.9349	1510.58	9.68464	1497.53	14.7169	1497.53	14.7169	101.493
WELL-20	100150	2.00269	18.0671	0.80728	0.52006	1.71065	0.06801	1.50768	0.88135	424.165	6.18921	425.19	5.94276	430.729	18.0127	424.165	6.18921	98.4762
WELL-20	252270	3.09367	17.8537	1.09395	0.59639	1.75806	0.07695	1.37624	0.78281	477.888	6.33901	474.94	6.66902	460.705	24.2542	477.888	6.33901	103.73
WELL-20	78746.7	3.26566	10.7789	0.86109	3.40774	1.36062	0.26568	1.05345	0.77424	1518.85	14.2551	1506.18	10.6816	1488.39	16.3076	1488.39	16.3076	102.046
WELL-20	52642.7	1.42048	9.70889	0.9222	4.15736	1.4793	0.29194	1.15643	0.78174	1651.22	16.8458	1665.66	12.1087	1683.89	17.0304	1683.89	17.0304	98.0597
WELL-20	134464	1.97006	18.0721	1.17736	0.56373	1.63177	0.07364	1.12961	0.69226	458.072	4.99488	453.949	5.97313	433.105	26.24	458.072	4.99488	105.765
WELL-20	26969.3	1.93252	17.6909	1.6514	0.57871	2.10668	0.07463	1.30726	0.62053	464.003	5.85259	463.631	7.84142	461.809	36.6217	464.003	5.85259	100.475
WELL-20	86564.1	2.83048	10.9196	0.83086	3.23836	1.48902	0.25577	1.23563	0.82983	1468.15	16.2235	1466.39	11.5525	1463.83	15.787	1463.83	15.787	100.295
WELL-20	91167.4	1.87923	9.50336	0.88842	4.52793	1.79805	0.31113	1.56314	0.86935	1746.28	23.9121	1736.12	14.9555	1723.88	16.3216	1723.88	16.3216	101.299
WELL-20	74800	1.19076	13.4804	1.26093	1.84503	1.79292	0.18026	1.27343	0.71026	1068.39	12.5376	1061.66	11.8066	1047.86	25.4666	1047.86	25.4666	101.96
WELL-20	35881.8	2.09071	13.9682	1.00437	1.66688	1.59762	0.16927	1.23945	0.77581	1008.1	11.5669	996	10.1395	969.444	20.5652	969.444	20.5652	103.987
WELL-20	47851.6	1.29404	13.0767	1.18494	1.92331	2.30898	0.18254	1.98015	0.85759	1080.83	19.7041	1089.22	15.4262	1106.02	23.7213	1106.02	23.7213	97.7221
WELL-20	76060.7	1.70962	12.6374	1.17127	2.30832	1.67845	0.21121	1.2022	0.71626	1235.29	13.5145	1214.85	11.8918	1178.73	23.163	1178.73	23.163	104.798
WELL-20	196023	1.3581	9.48887	0.98984	4.4819	1.61151	0.30741	1.27166	0.78911	1727.94	19.2751	1727.63	13.3788	1727.23	18.1726	1727.23	18.1726	100.041
WELL-20	108370	2.48241	11.4356	1.34172	2.88555	1.83905	0.23871	1.25772	0.6839	1380.01	15.6247	1378.14	13.8684	1375.24	25.803	1375.24	25.803	100.347
WELL-20	109034	1.4332	10.1061	1.06125	3.67484	1.67401	0.26836	1.29462	0.77336	1532.46	17.6576	1565.92	13.3624	1611.31	19.7736	1611.31	19.7736	95.1062
WELL-20	882256	1.33707	9.77512	0.8843	4.11515	1.54144	0.29034	1.26255	0.81908	1643.24	18.3136	1657.32	12.5923	1675.19	16.3415	1675.19	16.3415	98.093
WELL-20	8121.24	1.47369	13.4682	1.1077	1.76821	1.56002	0.17602	1.09706	0.70323	1045.19	10.5851	1033.86	10.1183	1009.97	22.4905	1009.97	22.4905	103.488
WELL-20	114323	1.8038	9.84248	0.77148	4.10423	1.51686	0.29192	1.30591	0.86093	1651.12	19.0223	1655.15	12.3851	1660.25	14.2869	1660.25	14.2869	99.45
WELL-20	92173.2	2.68418	13.5632	0.87055	1.7998	1.68527	0.17657	1.44247	0.85592	1048.2	13.9546	1045.39	11.0006	1039.5	17.6117	1039.5	17.6117	100.837
WELL-20	765912	2.51462	13.3305	0.9351	1.93931	1.74077	0.18649	1.46829	0.84347	1102.32	14.877	1094.76	11.6625	1079.78	18.7447	1079.78	18.7447	102.088
WELL-20	2034953	0.96518	9.84271	1.04426	4.1339	1.59675	0.29346	1.20794	0.7565	1658.8	17.667	1661.03	13.0558	1663.83	19.3259	1663.83	19.3259	99.6977
WELL-20	21301.2	1.44679	13.1952	1.30482	1.90496	2.11734	0.18268	1.66277	0.78531	1081.61	16.5568	1082.83	14.0992	1085.26	26.2634	1085.26	26.2634	99.6631
WELL-20	47809.3	3.8973	13.3851	1.01794	1.87102	1.59755	0.18113	1.22852	0.769	1073.13	12.1448	1070.89	10.5716	1066.35	20.5336	1066.35	20.5336	100.636
WELL-20	19522.2	1.86211	18.0837	1.11036	0.54052	1.74755	0.07137	1.33469	0.76375	444.401	5.73156	438.769	6.22601	409.305	25.2352	444.401	5.73156	108.574
WELL-20	93973.3	2.82657	14.1877	1.2321	1.54977	1.83405	0.15872	1.35842	0.74067	949.636	11.9949	950.402	11.3194	952.184	25.2098	952.184	25.2098	99.7324
WELL-20	104024	1.56432	12.2303	0.88449	2.3968	1.73203	0.21149	1.48877	0.85955	1236.76	16.754	1241.65	12.4099	1250.12	17.3143	1250.12	17.3143	98.9316
WELL-20	272270	3.03576	12.687	0.81099	2.16881	1.59894	0.19826	1.37801	0.86182	1165.97	14.6979	1171.1	11.1123	1180.61	16.052	1180.61	16.052	98.7597
WELL-20	135345	0.76225	9.71491	0.95412	4.30975	1.50143	0.30178	1.1592	0.77207	1700.12	17.3232	1695.23	12.3747	1689.17	17.6025	1689.17	17.6025	100.648
WELL-20	561386	2.43235	12.919	0.97605	2.08361	1.56487	0.19389	1.22316	0.78164	1142.41	12.8055	1143.42	10.7369	1145.34	19.377	1145.34	19.377	99.7449
WELL-20	17401.3	3.74095	13.6409	1.09587	1.75804	1.82702	0.17468	1.44808	0.79259	1037.84	13.8813	1030.13	11.8255	1013.77	22.5639	1013.77	22.5639	102.374
WELL-20	270172	3.06226	11.2898	0.90626	3.00492	1.39981	0.24419	1.06684	0.76214	1408.45	13.4978	1408.87	10.6648	1409.49	17.3459	1409.49	17.3459	99.9263
WELL-20	57369.1	5.07661	12.9978	1.00059	1.98079	1.70305	0.18581	1.37809	0.80919	1098.62	13.9202	1108.99	11.4917	1129.38	19.9312	1129.38	19.9312	97.2769
WELL-20	90800.9	0.83417	9.77871	0.79977	4.26219	1.28697	0.30027	1.0078	0.78308	1692.65	15.0028	1686.09	10.5847	1677.92	14.7855	1677.92	14.7855	100.878
WELL-20	92780.1	3.21692	9.83902	0.80702	4.25224	1.34962	0.30141	1.08175	0.80152	1698.3	16.1507	1684.17	11.0952	1666.59	14.9298	1666.59	14.9298	101.903
WELL-20	139429	1.64911	13.144	0.82566	1.91961	1.48459	0.18193	1.2338	0.83107	1077.53	12.2428	1087.93	9.91145	1108.8	16.4772	1108.8	16.4772	97.1797
WELL-20	25133.7	2.73676	13.5448	0.9582	1.75024	1.58708	0.1722	1.22289	0.77053	1024.2	11.5805	1027.25	10.2559	1033.75	20.4585	1033.75	20.4585	99.0759
WELL-20	69526.1	2.54796	13.1486	0.97068	1.92066	1.57369	0.18252	1.23837	0.78692	1080.71	12.3215	1088.3	10.5083	1103.52	19.4265	1103.52	19.4265	97.9326
WELL-20	47749.1	2.68396	13.7216	1.38099	1.60135	2.06259	0.15903	1.52885	0.74123	951.38	13.5228	970.736	12.893	1014.79	28.0635	1014.79	28.0635	93.751
WELL-20	104092	0.90275	10.7661	0.84392	3.28767	1.2908	0.25549	0.97639	0.75643	1466.73	12.8087	1478.14	10.0501	1494.54	15.9755	1494.54	15.9755	98.1392
WELL-20	171556	4.53685	10.8822	0.88171	3.26609	1.50518	0.25661	1.21985	0.81043	1472.45	16.058	1473.01	11.7014	1473.81	16.7315	1473.81	16.7315	99.908
WELL-20	167848	1.27089	17.8735	1.22855	0.54175	1.74423	0.06996	1.23815	0.70985	435.886	5.21849	439.577	6.22334	458.944	27.2462	435.886	5.21849	94.9759
WELL-20	192724	2.38903	8.84875	0.75868	5.19851	1.30668	0.33214	1.06385	0.81417	1848.75	17.0991	1852.37	11.1278	1856.42	13.7083	1856.42	13.7083	99.587
WELL-20	97408.8	1.59125	9.76193	0.65139	4.17	1.19088	0.29415	0.99662	0.83688	1662.21	14.6025	1668.15	9.75339	1675.61	12.0451	1675.61	12.0451	99.2006
WELL-20	1701809	0.66638	18.0766	0.95774	0.52143	1.66067	0.06803	1.35668	0.81694	424.252	5.57042	426.108	5.77915	436.139	21.3467	424.252	5.57042	97.2745
WELL-20	104794	2.15349	9.97635	0.81825	4.02625	1.29332	0.29042	1.00128	0.77419	1643.63	14.5268	1639.51	10.5198	1634.21	15.207	1634.21	15.207	100.576
WELL-20	108345	2.05804	13.318	0.74019	1.90521	1.3768	0.18355	1.1606	0.84297	1086.36	11.6032	1082.91	9.16808	1076	14.8515	1076	14.8515	100.963
WELL-20	305829	1.49229	10.7896	0.99547	3.39809	1.60663	0.2649	1.26106	0.78491	1514.84	17.0246	1503.96	12.6049	1488.64	18.8512	1488.64	18.8512	101.76
WELL-20	344799	3.93402	12.9003	0.86487	2.02179	1.63242	0.18845	1.38448	0.84811	1112.95	14.1518	1122.86	11.0905	1142.06	17.1941	1142.06	17.1941	97.4515
WELL-20	14841.4	3.41551	13.7323	1.45637	1.69138	1.97664	0.16997	1.32969	0.6727	1011.94	12.4527	1005.28	12.6138	990.791	29.7254	990.791	29.7254	102.135

WELL-20	17208.1	1.51184	13.5985	1.17671	1.75578	1.65467	0.17433	1.15891	0.70039	1035.94	11.0906	1029.29	10.7049	1015.19	23.917	1015.19	23.917	102.044
WELL-20	77694.4	4.65189	13.4574	0.7836	1.83695	1.34922	0.17891	1.09798	0.81379	1061.01	10.7415	1058.77	8.87092	1054.18	15.8132	1054.18	15.8132	100.648
WELL-20	196340	3.92468	12.2325	0.83367	2.46377	1.50085	0.2177	1.24801	0.83153	1269.73	14.3833	1261.47	10.8402	1247.43	16.3242	1247.43	16.3242	101.788
WELL-20	45540.8	3.73301	11.7236	0.78604	2.64902	1.46602	0.22495	1.23576	0.84294	1307.98	14.6293	1314.37	10.8068	1324.79	15.2753	1324.79	15.2753	98.7314
WELL-20	108711	1.74798	9.19564	0.76787	4.92856	1.36378	0.32747	1.12701	0.82639	1826.11	17.9223	1807.16	11.5124	1785.36	13.9965	1785.36	13.9965	102.282
WELL-20	84091.2	2.50844	11.1091	0.88201	3.15535	1.28661	0.25366	0.93652	0.7279	1457.35	12.2156	1446.31	9.92047	1430.1	16.8385	1430.1	16.8385	101.905
WELL-20	47462.5	1.48583	12.7018	1.00868	2.1725	1.54028	0.20027	1.1621	0.75447	1176.77	12.4996	1172.28	10.7104	1163.99	20.0465	1163.99	20.0465	101.098
WELL-20	1884256	2.16047	13.4128	0.96102	1.84403	1.55086	0.17884	1.21721	0.78486	1060.66	11.9043	1061.3	10.2106	1062.64	19.3334	1062.64	19.3334	99.8138
WELL-20	1610202	0.62144	5.34548	0.92604	13.3692	1.40589	0.51672	1.05782	0.75242	2685.24	23.2317	2706.08	13.2825	2721.67	15.2579	2721.67	15.2579	98.6615
WELL-20	107147	2.59901	11.4565	0.82683	2.78951	1.49723	0.23141	1.2479	0.83347	1341.86	15.1171	1352.73	11.1913	1369.94	15.922	1369.94	15.922	97.95
WELL-20	55993.3	2.19223	5.29163	0.93254	14.0129	1.6887	0.53601	1.40783	0.83368	2766.73	31.6704	2750.58	16.006	2738.73	15.3417	2738.73	15.3417	101.022
WELL-20	37605.3	2.4437	12.8416	1.26263	1.17551	2.06348	0.10946	1.62769	0.78881	669.593	10.352	789.22	11.3217	1144.09	25.2074	1144.09	25.2074	58.5264
WELL-20	42679.3	1.83387	13.6629	1.28524	1.81632	1.88206	0.17989	1.36722	0.72645	1066.38	13.4377	1051.36	12.3252	1020.27	26.1972	1020.27	26.1972	104.519
WELL-20	158759	3.41541	9.35588	0.84335	4.66551	1.40765	0.31523	1.12702	0.80064	1766.38	17.4131	1761.08	11.7708	1754.78	15.43	1754.78	15.43	100.661
WELL-20	25901.6	1.91347	13.5087	0.94238	1.84452	1.59058	0.18102	1.28038	0.80498	1072.55	12.6511	1061.47	10.4731	1038.76	19.0723	1038.76	19.0723	103.252
WELL-20	135023	1.79562	10.8265	1.08456	3.48567	1.73999	0.27243	1.36061	0.78196	1553.12	18.7791	1523.98	13.7297	1483.71	20.5522	1483.71	20.5522	104.678
WELL-20	37082.2	3.33941	13.9681	1.19801	1.66452	1.91711	0.16851	1.48707	0.77569	1003.91	13.8245	995.1	12.161	975.738	24.6648	975.738	24.6648	102.887
WELL-20	123349	2.91376	14.4773	0.93049	1.45346	1.51958	0.15194	1.201	0.79035	911.85	10.2121	911.305	9.14093	909.962	19.1546	909.962	19.1546	100.207
WELL-20	15364	1.0305	17.784	1.90923	0.55285	2.37908	0.07209	1.40574	0.59087	448.747	6.09366	446.863	8.60059	437.155	42.7313	448.747	6.09366	102.652
WELL-20	315304	2.51319	10.6455	1.03328	3.44466	1.45388	0.26453	1.02279	0.70349	1512.96	13.7926	1514.65	11.4415	1517	19.4919	1517	19.4919	99.7339
WELL-20	99329.2	3.37098	13.1182	1.01993	2.04794	1.68464	0.19407	1.34022	0.79555	1143.39	14.0419	1131.61	11.4939	1109.05	20.3998	1109.05	20.3998	103.096
WELL-20	250624	3.26293	13.7732	0.99774	1.75294	1.74587	0.17434	1.43268	0.82061	1035.99	13.7113	1028.25	11.2884	1011.79	20.2264	1011.79	20.2264	102.392
WELL-20	32232.4	2.19982	12.8648	0.99962	2.04163	1.66463	0.19059	1.31659	0.79092	1124.58	13.5866	1129.51	11.3458	1138.97	20.2408	1138.97	20.2408	98.7361
WELL-20	30597.2	2.23519	18.0573	1.10259	0.52355	1.7127	0.06877	1.27168	0.7425	428.758	5.27508	427.522	5.97612	420.846	25.6122	428.758	5.27508	101.88
WELL-20	35700.4	3.66384	13.4822	0.9174	1.79725	1.652	0.17569	1.37282	0.831	1043.41	13.225	1044.46	10.7779	1046.67	18.5499	1046.67	18.5499	99.6882
WELL-20	120689	4.29598	11.6194	1.99352	2.60972	2.58072	0.21898	1.63887	0.63504	1276.5	18.9792	1303.38	18.947	1347.87	38.4862	1347.87	38.4862	94.7051
WELL-20	40501.1	2.18331	11.9211	0.82755	2.64177	1.55136	0.22822	1.30653	0.84218	1325.18	15.6503	1312.35	11.4273	1291.43	16.2768	1291.43	16.2768	102.614
WELL-20	30165.1	1.51934	9.29765	0.84662	4.54105	1.51733	0.30602	1.25904	0.82977	1721.08	19.0177	1738.52	12.6269	1759.55	15.4855	1759.55	15.4855	97.8138
WELL-20	52149.9	1.663	18.744	1.18143	0.44824	1.72605	0.06096	1.25671	0.72808	381.469	4.65488	376.046	5.42447	342.782	26.7804	381.469	4.65488	111.286
WELL-20	124543	4.37403	15.376	0.93446	1.11206	1.7972	0.12363	1.53495	0.85408	751.445	10.8875	759.165	9.60862	781.949	19.6433	751.445	10.8875	96.099
WELL-20	42076.4	2.01452	17.4657	1.28253	0.61525	1.8441	0.07805	1.32387	0.7179	484.486	6.17888	486.868	7.13239	498.079	28.2808	484.486	6.17888	97.2709
WELL-20	252331	3.01875	10.5848	0.88077	3.36672	1.52262	0.25743	1.242	0.8157	1476.68	16.3914	1496.69	11.9204	1525.13	16.5971	1525.13	16.5971	96.8231
WELL-20	77319	2.81396	11.1644	0.95998	2.92336	1.51487	0.23611	1.17185	0.77356	1366.42	14.4291	1387.98	11.4617	1421.26	18.3454	1421.26	18.3454	96.1414
WELL-20	262661	3.90866	13.3977	0.92354	1.90848	1.5266	0.18492	1.21557	0.79625	1093.82	12.2293	1084.05	10.1717	1064.5	18.5638	1064.5	18.5638	102.755
WELL-20	62503.8	2.10807	12.2138	0.86291	2.40185	1.50076	0.2126	1.22782	0.81813	1242.63	13.8769	1243.15	10.7594	1244.08	16.8878	1244.08	16.8878	99.8837
WELL-20	73050.9	4.9737	9.44727	1.09107	4.55853	1.66944	0.31154	1.26338	0.75677	1748.26	19.3456	1741.72	13.9025	1733.87	20.0183	1733.87	20.0183	100.83
WELL-20	95968.1	3.32728	13.6336	1.05142	1.71382	1.85135	0.16932	1.52373	0.82304	1008.35	14.2232	1013.72	11.872	1025.31	21.2918	1025.31	21.2918	98.3459
WELL-20	50137.7	0.78561	16.8479	1.21291	0.62531	1.7665	0.07662	1.28375	0.72672	475.889	5.88917	493.173	6.901	574.246	26.3667	475.889	5.88917	82.8719
WELL-20	51061.7	2.02405	13.3004	0.72056	1.86949	1.42135	0.18061	1.22431	0.86137	1070.32	12.074	1070.35	9.40293	1070.42	14.4905	1070.42	14.4905	99.9907
WELL-20	48032	2.19032	9.46958	1.01145	4.4995	1.65404	0.30918	1.3068	0.79006	1736.68	19.8949	1730.88	13.7418	1723.86	18.6232	1723.86	18.6232	100.744
WELL-20	291811	2.50725	8.87154	0.73671	5.21475	1.26043	0.33494	1.0227	0.81139	1862.26	16.5412	1855.03	10.7392	1846.92	13.3265	1846.92	13.3265	100.831
WELL-20	55951.2	10.4193	16.671	1.03968	0.83719	1.53887	0.10139	1.13385	0.73681	622.557	6.72874	617.595	7.1205	599.43	22.5277	622.557	6.72874	103.858
WELL-20	42765.3	0.92786	9.53532	1.27829	4.1003	1.73335	0.28392	1.1706	0.67534	1611.07	16.6872	1654.36	14.1502	1709.77	23.5215	1709.77	23.5215	94.2273
WELL-20	62533.6	2.47255	11.8329	0.83946	2.61122	1.49905	0.22429	1.24194	0.82848	1304.5	14.667	1303.8	11.0066	1302.63	16.3092	1302.63	16.3092	100.143
WELL-20	58440.2	1.58654	9.10861	0.94038	4.88762	1.55055	0.32299	1.23033	0.79348	1804.3	19.3629	1800.12	13.0706	1795.27	17.1785	1795.27	17.1785	100.503
WELL-20	72168.1	5.18529	11.524	0.98685	2.73297	1.42923	0.22852	1.03349	0.72311	1326.75	12.3928	1337.47	10.625	1354.64	19.0403	1354.64	19.0403	97.9408
WELL-20	350176	1.57235	5.90388	0.85189	11.5596	1.35736	0.49451	1.05675	0.77853	2590.18	22.5409	2569.41	12.6857	2553.05	14.2641	2553.05	14.2641	101.454
WELL-20	64186.4	1.17602	14.0226	1.03488	1.4683	1.7171	0.14938	1.36871	0.79711	897.495	11.4674	917.431	10.3719	965.711	21.1615	965.711	21.1615	92.9362
WELL-20	80107.2	2.29985	13.2067	0.85453	1.99086	1.45069	0.19061	1.17157	0.80759	1124.68	12.091	1112.41	9.80534	1088.49	17.1259	1088.49	17.1259	103.325
WELL-20	83705.8	1.89775	12.6639	1.13356	2.12232	1.63024	0.19481	1.17108	0.71835	1147.36	12.3086	1156.09	11.2521	1172.52	22.4677	1172.52	22.4677	97.8544
WELL-20	26744.3	0.64654	18.0902	1.42979	0.52856	1.92153	0.06984	1.28338	0.66789	435.221	5.40116	430.851	6.74674	407.525	32.0023	435.221	5.40116	106.796
WELL-20	412054	2.23104	17.0158	1.10942	0.76106	1.61183	0.09372	1.16927	0.72543	577.494	6.45882	574.622	7.07298	563.261	24.1622	577.494	6.45882	102.527
WELL-20	34618.9	1.2492	17.5718	0.75801	0.59766	1.51381	0.07653	1.28551	0.84919	475.365	5.89101	475.744	5.75006	477.551	17.6897	475.365	5.89101	99.5422
WELL-20	92994.2	2.4299	9.17723	0.90609	4.82318	1.30161	0.3206	0.93443	0.71791	1792.65	14.6237	1788.95	10.9471	1784.62	16.5163	1784.62	16.5163	100.45
WELL-20	116450	2.29906	13.1696	0.8361	1.925	1.58265	0.18367	1.3437	0.84902	1086.98	13.4407	1089.8	10.5763	1095.46	16.7313	1095.46	16.7313	99.2255
WELL-20	9838.32	1.77084	13.3808	1.25033	1.80159	1.69275	0.17781	1.11704	0.6599	1055	10.871	1046.04	11.0533	1027.33	25.7427	1027.33	25.7427	102.693
WELL-20	320075	2.89908	13.6378	1.28004	1.76456	1.8147	0.17417	1.28633	0.70884	1035.06	12.3004	1032.53	11.7616	1027.14	25.9086	1027.14	25.9086	100.771
WELL-20	4152624	1.51503	13.4696	1.22321	1.78564	1.79221	0.17398	1.30988	0.73087	1033.98	12.5135	1040.24	11.6656	1053.43	24.6611	1053.43	24.6611	98.1531
WELL-20	97619.6	1.5281	5.3087	0.8182	13.8855	1.57269	0.53352	1.34309	0.85401	2756.27	30.1224	2741.93	14.8971	2731.38	13.4686	2731.38	13.4686	100.911
WELL-20	57741.4	1.82956	4.94991	0.92327	15.3282	1.64302	0.54934	1.35906	0.82717	2822.44	31.0639	2835.86	15.6625	2845.4	15.0423	2845.4	15.0423	99.1932
WELL-20	51220	1.44667	9.9655	0.84131	3.93659	1.60066	0.28451	1.36172	0.85072	1614.05	19.4432	1621.24	12.9612	1630.56	15.6364	1630.56	15.6364	98.987
WELL-20	108039	1.83352	12.9209	0.85268	2.06839	1.53677	0.19363	1.27852	0.83195	1141.03	13.3701	1138.4	10.5191	1133.37	16.9559	1133.37	16.9559	100.676
WELL-20	108251	6.65442	16.9782	1.10331	0.77406	1.68769	0.09529	1.27681	0.75654	586.764	7.161	582.087	7.47712	563.86	24.0526	586.764	7.161	104.062
WELL-20	84355.2	1.25778	10.0281	0.93028	4.006	1.60049	0.2911	1.30188	0.81343	1647.04	18.9224	1635.41	13.0055	1620.48	17.3249	1620.48	17.3249	101.639
WELL-20	39458.3	3.93928	13.498	0.69476	1.81196	1.4569	0.1778	1.27136	0.87265	1054.97	12.3725	1049.78	9.53257	1039	14.3832	1039	14.3832	101.537
WELL-20	41557.1	8.66443	16.1832	1.2763	0.83156	1.92053	0.09791	1.42563	0.74231	602.132	8.19546	614.477	8.8539	660.229	27.5659	602.132	8.19546	91.2005
WELL-20	59030.4	2.7301	13.608	0.86999	1.72061	1.44479	0.16996	1.15248	0.79769	1011.9	10.7927	1016.25	9.27814	1025.63	17.6453	1025.63	17.6453	98.6609
WELL-20	1013018	2.39874	9.62021	0.83913	4.37173	1.31397	0.30465	1.01113	0.76952	1714.35	15.2208	1707.01	10.8585	1698	15.4617	1698	15.4617	100.962
WELL-20	51936.9	3.0611	17.9302	1.29126	0.52701	1.82494	0.06879	1.28775	0.70564	428.842	5.34274	429.823	6.3953	435.059	28.8081	428.842	5.34274	98.5711
WELL-20	136253	3.93595	12.9225	0.97517	2.02505	1.55842	0.18979	1.21549	0.77995	1120.25	12.499	1123.95	10.5933	1131.11	19.4216	1131.11	19.4216	99.0398
WELL-20	272524	3.92165	13.5003	0.84833	1.79897	1.47856	0.17603	1.21098	0.81902	1045.25	11.6848	1045.09	9.64957	1044.76	17.1311	1044.76	17.1311	100.046
WELL-20	15857.9	1.07625	17.9431	2.14924	0.50765	2.43647	0.06702	1.14518	0.47001	418.183	4.63691	416.87	8.33042	409.585	48.1198	418.183	4.63691	102.099
WELL-20	118516	3.31494	13.5971	0.78843	1.71776	1.53637	0.16945	1.31851	0.8582	1009.06	12.3156	1015.19	9.86031	1028.41	15.9661	1028.41	15.9661	98.1184
WELL-20	130671	0.47498	9.99784	0.78331	4.00518	1.40629	0.29033	1.16779	0.8304	1643.2	16.9386	1635.25	11.4268	1625.02	14.5724	1625.02	14.5724	101.119
WELL-20	4474027	2.20608	9.4231	0.81311	4.53978	1.49963	0.30985	1.26005	0.84024	1739.98	19.2149	1738.29	12.4789	1736.25	14.9105	1736.25	14.9105	100.215
WELL-20	23274.3	1.44279	17.8594	1.08999	0.54248	1.87315	0.07097	1.45361	0.77602	441.967	6.20918	440.057	6.68918	430.057	26.3329	441.967	6.20918	102.77
WELL-20	92979.8	1.84235	11.4177	1.1049	2.84108	1.56109	0.23542	1.1028	0.70643	1362.85	13.547	1366.46	11.7249	1372.08	21.258	1372.08	21.258	99.3271
WELL-20	86445.8	1.46905	18.3782	1.02249	0.49536	1.6696	0.06618	1.31861	0.78978	413.091	5.27618	408.558	5.61593	383	23.0158	413.091	5.27618	107.857
WELL-20	101344	1.39522	13.0445	0.90123	1.99194	1.65827	0.18864	1.39162	0.8392	1114.01	14.2373	1112.78	11.2106	1110.35	17.9945	1110.35	17.9945	100.33
WELL-20	180693	2.54106	9.18489	0.71608	4.85026	1.46786	0.32306	1.2813	0.87291	1804.65	20.1685	1793.66	12.3573	1780.89	13.0595	1780.89	13.0595	101.334
WELL-20	65813.9	3.44646	13.9322	0.92661	1.647	1.62668	0.16679	1.33556	0.82104	994.401	12.3072	988.402	10.2775	975.087	18.9455	975.087	18.9455	101.981
WELL-20	56835.6	1.084	13.432	0.93006	1.6066	1.47254	0.15686	1.13898	0.77348	939.281	9.95533	972.783	9.216	1049.25	18.8322	1049.25	18.8322	89.519
WELL-20	122284	1.33267	10.6889	0.80662	3.37782	1.3897	0.26213	1.13135	0.81409	1500.71	15.1469	1499.26	10.888	1497.21	15.2654	1497.21	15.2654	100.234
WELL-20	304684	2.78917	14.2623	1.09018	1.48843	1.64647	0.15404	1.23383	0.74938	923.551	10.6165	925.678	10	930.759	22.3779	930.759	22.3779	99.2256
WELL-20	135458	2.03227	12.6503	1.00172	2.05395	1.42082	0.18866	1.00761	0.70918	1114.11	10.3094	1133.61	9.70309	1171.17	19.8447	1171.17	19.8447	95.1277
WELL-20	46420.1	1.1351	17.7799	1.11824	0.54198	1.7277	0.07027	1.3121	0.75945	437.772	5.55332	439.732	6.16609	449.985	24.9876	437.772	5.55332	97.286
WELL-20	2490752	2.20797	8.75137	0.93452	5.37149	1.43451	0.34063	1.08834	0.75869	1889.69	17.8261	1880.32	12.2803	1869.97	16.8581	1869.97	16.8581	101.055
WELL-20	92728.3	89.2	13.7136	0.92686	1.75841	1.52968	0.1751	1.21689	0.79552	1040.13	11.6889	1030.26	9.90159	1009.36	18.7853	1009.36	18.7853	103.049
WELL-20	128354	4.12266	13.2047	0.88536	1.88108	1.31552	0.18024	0.97268	0.73939	1068.3	9.57581	1074.44	8.72145	1086.94	17.7445	1086.94	17.7445	98.2858
WELL-20	102531	1.78654	13.0581	0.82766	2.07174	1.53922	0.19638	1.29751	0.84297	1155.82	13.7294	1139.51	10.5414	1108.56	16.5258	1108.56	16.5258	104.264
WELL-20	143151	1.31053	13.33	1.35763	1.85049	1.95479	0.17897	1.40637	0.71945	1061.35	13.7624	1063.6	12.8861	1068.26	27.2913	1068.26	27.2913	99.3526
WELL-20	31141.9	1.92694	13.5436	1.16953	1.68948	1.64874	0.16673	1.16087	0.70409	994.052	10.6939	1004.57	10.5168	1027.56	23.6977	1027.56	23.6977	96.7386

WELL-20	339771	2.44267	11.3937	0.92536	2.91046	1.37376	0.24004	1.01534	0.73909	1386.88	12.6698	1384.63	10.3822	1381.15	17.7802	1381.15	17.7802	100.415
WELL-20	201088	1.43398	12.4964	0.82841	2.28092	1.44618	0.20641	1.1854	0.81967	1209.64	13.074	1206.4	10.209	1200.59	16.33	1200.59	16.33	100.754
WELL-20	61378.5	3.00496	12.9432	0.992	2.13243	1.43826	0.20029	1.03942	0.72269	1176.89	11.1811	1159.37	9.94202	1126.79	19.8274	1126.79	19.8274	104.446
WELL-20	50027.2	3.23386	13.3188	0.87249	1.86532	1.45088	0.18043	1.15922	0.79898	1069.33	11.4223	1068.87	9.59078	1067.96	17.5385	1067.96	17.5385	100.128
WELL-20	116700	3.45737	12.4737	0.95234	2.3566	1.46753	0.21282	1.1162	0.7606	1243.82	12.6263	1229.56	10.4621	1204.65	18.7527	1204.65	18.7527	103.252
WELL-20	99266.7	3.42213	9.79286	0.99102	4.09476	1.52878	0.29003	1.164	0.76139	1641.7	16.8702	1653.26	12.4767	1667.96	18.3321	1667.96	18.3321	98.4257
WELL-20	89834.9	1.73497	10.785	0.93037	3.26863	1.58949	0.25506	1.28806	0.81036	1464.5	16.8744	1473.62	12.3591	1486.76	17.6409	1486.76	17.6409	98.5024
WELL-20	253262	2.53359	13.6854	0.77481	1.74657	1.31673	0.17278	1.06462	0.80854	1027.43	10.1111	1025.9	8.50222	1022.61	15.6815	1022.61	15.6815	100.471
WELL-20	131863	2.11241	12.2079	0.8839	2.43102	1.67479	0.21465	1.42244	0.84932	1253.52	16.204	1251.82	12.0497	1248.91	17.3057	1248.91	17.3057	100.369
WELL-20	70618.4	4.40752	12.0974	1.13225	2.37306	1.76668	0.20807	1.35613	0.76762	1218.54	15.0572	1234.52	12.621	1262.52	22.105	1262.52	22.105	96.5171
WELL-20	414981	1.94786	12.6891	0.72191	2.19018	1.72168	0.20083	1.56302	0.90784	1179.77	16.851	1177.92	12.0024	1174.55	14.2961	1174.55	14.2961	100.444
WELL-20	57970.1	1.6222	17.437	1.29287	0.59242	1.90102	0.07494	1.39311	0.73283	465.869	6.26113	472.415	7.18121	504.328	28.4705	465.869	6.26113	92.3743
WELL-20	367992	3.38943	13.7379	0.85626	1.73486	1.25192	0.17224	0.91329	0.72951	1024.46	8.65071	1021.56	8.06389	1015.33	17.3489	1015.33	17.3489	100.899
WELL-20	76788.3	0.64583	14.1528	1.04484	1.60921	1.63443	0.16494	1.25575	0.76831	984.168	11.4615	973.801	10.2356	950.505	21.422	950.505	21.422	103.542
WELL-20	3977.6	2.81444	12.5998	2.59717	1.86422	3.06245	0.17779	1.57382	0.51391	1054.91	15.3151	1068.48	20.2417	1096.32	52.5732	1096.32	52.5732	96.2223
WELL-20	184219	1.63082	5.31433	0.85207	13.7899	1.61754	0.53025	1.37492	0.85001	2742.5	30.7125	2735.38	15.3149	2730.13	14.028	2730.13	14.028	100.453
WELL-20	18900.7	1.95741	17.6236	1.08379	0.53192	1.43098	0.06874	0.93229	0.65151	428.554	3.86547	433.086	5.04523	457.256	24.1042	428.554	3.86547	93.7229
WELL-20	194123	2.3192	11.1549	0.94351	3.07821	1.5529	0.24856	1.23338	0.79424	1431.06	15.8285	1427.28	11.9021	1421.64	18.0299	1421.64	18.0299	100.662
WELL-20	34529.2	1.18851	13.4555	0.85535	1.80947	1.2774	0.17709	0.94872	0.7427	1051.03	9.20098	1048.88	8.35396	1044.43	17.274	1044.43	17.274	100.632
WELL-20	10956.2	1.0358	9.1864	1.1973	4.71155	2.05262	0.31671	1.65027	0.80399	1773.65	25.5888	1769.3	17.1945	1764.14	22.3044	1764.14	22.3044	100.539
WELL-20	35969.8	2.73408	11.7923	0.97113	2.64873	1.48318	0.22685	1.11118	0.74918	1317.96	13.2448	1314.29	10.9329	1308.29	19.0709	1308.29	19.0709	100.739
WELL-20	55174.4	2.48303	13.6661	1.43061	1.74269	2.02071	0.17278	1.42706	0.70622	1027.42	13.5531	1024.46	13.0377	1018.14	28.986	1018.14	28.986	100.911
WELL-20	2141657	0.5428	6.05603	0.75107	10.6517	1.52978	0.46636	1.33271	0.87118	2467.56	27.3233	2493.22	14.2009	2514.18	12.624	2514.18	12.624	98.1459
WELL-20	34034.1	3.65805	13.6575	0.92104	1.79918	1.50401	0.17872	1.18898	0.79054	1060	11.6215	1045.16	9.81608	1014.25	18.6652	1014.25	18.6652	104.511
WELL-20	167015	3.10678	14.0377	0.72373	1.61714	1.40168	0.16445	1.20033	0.85635	981.461	10.9278	976.881	8.79447	966.611	14.7897	966.611	14.7897	101.536
WELL-20	34047.2	2.69439	13.698	1.12557	1.74692	1.69297	0.17414	1.26433	0.74681	1034.87	12.088	1026.02	10.9326	1007.18	22.8415	1007.18	22.8415	102.749
WELL-20	94333.1	1.86468	9.95065	0.93799	4.21152	1.52713	0.30366	1.20485	0.78897	1709.44	18.0916	1676.27	12.5314	1634.98	17.4294	1634.98	17.4294	104.554
WELL-20	3518562	1.69085	11.6661	0.92991	2.70437	1.58237	0.22829	1.2803	0.8091	1325.51	15.3395	1329.66	11.7303	1336.32	17.9796	1336.32	17.9796	99.1911
WELL-20	7865.41	3.45342	13.4345	1.66897	1.66692	2.15717	0.16587	1.34754	0.62468	989.316	12.3589	996.016	13.6913	1010.78	34.1743	1010.78	34.1743	97.8767
WELL-20	472018	1.06628	12.4038	0.83722	2.34043	1.6396	0.20964	1.40973	0.8598	1226.91	15.7499	1224.65	11.6649	1220.65	16.4371	1220.65	16.4371	100.513
WELL-20	80811.2	2.2709	13.1473	0.97509	1.94685	1.62151	0.1852	1.29469	0.79845	1095.32	13.0417	1097.36	10.8778	1101.39	19.5188	1101.39	19.5188	99.449
WELL-20	121077	1.0199	5.76927	0.91036	11.8547	1.54616	0.49401	1.2497	0.80826	2587.99	26.6384	2592.99	14.4791	2596.88	15.1793	2596.88	15.1793	99.6577
WELL-20	114059	0.97182	10.835	0.68772	3.24065	1.38541	0.25381	1.20236	0.86787	1458.08	15.6901	1466.94	10.7504	1479.77	13.049	1479.77	13.049	98.5346
WELL-20	799117	2.09761	11.4639	0.68603	2.93032	1.38479	0.2423	1.20291	0.86866	1398.64	15.1244	1389.78	10.4837	1376.18	13.1903	1376.18	13.1903	101.632
WELL-20	40005	2.92529	13.6877	1.07466	1.73383	1.52787	0.17191	1.07623	0.7044	1022.61	10.1771	1021.18	9.83931	1018.09	21.9643	1018.09	21.9643	100.443
WELL-20	66494.6	3.77456	12.264	0.69318	2.36119	1.2199	0.20928	1.0021	0.82146	1224.98	11.1797	1230.94	8.70165	1241.4	13.633	1241.4	13.633	98.6773
WELL-20	12423.4	3.05995	12.8509	1.89901	2.11063	2.39964	0.19842	1.45662	0.60702	1166.84	15.547	1152.28	16.534	1124.98	38.0058	1124.98	38.0058	103.721
WELL-20	5180373	3.558	10.9045	0.78212	3.29517	1.81917	0.25902	1.64246	0.90286	1484.82	21.7828	1479.91	14.172	1472.87	14.8422	1472.87	14.8422	100.811
WELL-20	18751	1.29392	14.0111	1.09475	1.54193	1.92215	0.1573	1.48499	0.77256	941.756	13.0114	947.274	11.8396	960.139	24.943	960.139	24.943	98.0854
WELL-20	74744.3	1.25652	10.1228	0.80403	3.88431	1.48821	0.28389	1.25224	0.84144	1610.94	17.8499	1610.43	12.0178	1609.73	14.9857	1609.73	14.9857	100.075
WELL-20	348429	2.43048	11.651	1.03611	2.68407	1.72231	0.22547	1.3758	0.79881	1310.72	16.3178	1324.08	12.7418	1345.74	20.0072	1345.74	20.0072	97.3973
WELL-20	31658.8	1.17955	10.7081	1.11698	3.46903	1.83955	0.26896	1.4425	0.78416	1535.54	19.7096	1520.2	14.4999	1498.89	21.5881	1498.89	21.5881	102.445
WELL-20	66714.9	1.52868	10.8732	1.04611	3.27635	1.85266	0.25731	1.52791	0.82471	1476.08	20.1575	1475.45	14.4136	1474.53	19.8792	1474.53	19.8792	100.105
WELL-20	290056	2.75487	13.2709	1.11282	1.87934	1.73367	0.17978	1.32936	0.76679	1065.78	13.0588	1073.83	11.4902	1090.19	22.2762	1090.19	22.2762	97.7605
WELL-20	99802.1	2.84575	12.9316	1.07527	2.1161	1.75322	0.19732	1.38465	0.78977	1160.9	14.7101	1154.07	12.0896	1141.26	21.3846	1141.26	21.3846	101.72
WELL-20	11866.2	0.88388	13.5343	1.18161	1.68092	1.67791	0.16645	1.17627	0.70103	992.507	10.8203	1001.33	10.6826	1020.68	24.2441	1020.68	24.2441	97.2396
WELL-20	19792	1.79435	15.253	1.29664	1.15698	1.84901	0.12844	1.31674	0.71213	778.967	9.66147	780.535	10.0708	785	27.2858	778.967	9.66147	99.2315
WELL-20	116358	1.52216	10.7407	0.7948	3.44678	1.37248	0.2668	1.11871	0.8151	1524.53	15.1884	1515.13	10.8024	1502.02	15.0298	1502.02	15.0298	101.499
WELL-20	29941.3	4.10231	13.1139	0.90716	1.99786	1.44401	0.1898	1.12234	0.77723	1120.31	11.5418	1114.79	9.77166	1104.02	18.1626	1104.02	18.1626	101.475
WELL-20	262652	3.62857	13.2774	0.88969	1.95799	1.44409	0.18725	1.13747	0.78767	1106.46	11.5647	1101.19	9.70624	1090.79	17.8048	1090.79	17.8048	101.437
WELL-20	7663.1	2.14767	13.665	1.37673	1.68236	2.40187	0.16979	1.47204	0.61287	1010.93	13.7732	1001.88	15.2973	982.108	38.6471	982.108	38.6471	102.935
WELL-20	105275	3.18413	13.648	1.01975	1.77639	1.41651	0.17482	0.98278	0.69381	1038.62	9.42756	1036.86	9.20276	1033.12	20.6319	1033.12	20.6319	100.532
WELL-20	791229	1.9296	12.7274	0.86816	2.13606	1.63163	0.19572	1.38149	0.84669	1152.3	14.5773	1160.55	11.2849	1176.01	17.1742	1176.01	17.1742	97.9831
WELL-20	112638	3.07872	14.2105	0.91589	1.41859	1.59302	0.1454	1.30304	0.81797	875.11	10.6629	896.772	9.48765	950.552	18.7515	950.552	18.7515	92.0634
WELL-20	554057	2.85298	13.641	0.75491	1.83134	1.35866	0.17992	1.12963	0.83143	1066.52	11.1039	1056.76	8.92336	1036.63	15.2645	1036.63	15.2645	102.884
WELL-20	692584	2.89482	10.8984	0.98933	3.27414	1.49013	0.25707	1.11432	0.7478	1474.85	14.6901	1474.93	11.591	1475.02	18.769	1475.02	18.769	99.9884
WELL-20	348942	1.81869	9.69482	0.84729	4.24674	1.53511	0.29666	1.2801	0.83388	1674.74	18.8799	1683.11	12.6171	1693.53	15.6211	1693.53	15.6211	98.8902
WELL-20	24302.3	2.48492	10.6861	0.94335	3.3976	1.62149	0.26312	1.30768	0.80647	1505.77	17.5601	1503.84	12.7211	1501.11	18.1257	1501.11	18.1257	100.311
WELL-20	295150	2.06588	13.5165	1.62946	1.7868	2.27039	0.17391	1.58099	0.69635	1033.62	15.0987	1040.66	14.782	1055.48	32.8172	1055.48	32.8172	97.9292
WELL-20	288039	1.46552	11.7131	0.97424	2.78528	1.8842	0.23491	1.61277	0.85595	1360.16	19.7766	1351.6	14.0785	1338.06	18.8324	1338.06	18.8324	101.652
WELL-20	101137	3.5875	13.0488	1.00022	2.05993	1.74258	0.19378	1.42663	0.81869	1141.85	14.9288	1135.6	11.912	1123.67	19.9542	1123.67	19.9542	101.617
WELL-20	208838	1.99502	17.4084	1.32227	0.6271	1.8301	0.07865	1.26525	0.69135	488.085	5.94749	494.286	7.16199	523.098	29.0059	488.085	5.94749	93.3066
WELL-20	649116	2.83969	12.6308	0.98702	2.21727	1.43918	0.20159	1.04738	0.72777	1183.86	11.3276	1186.51	10.0714	1191.32	19.467	1191.32	19.467	99.3738
WELL-20	24569	0.75023	18.1218	1.33495	0.53921	1.86614	0.07108	1.28746	0.6899	442.666	5.50788	437.9	6.63802	412.898	30.2014	442.666	5.50788	107.209
WELL-20	112170	2.80927	9.12783	0.87222	4.85161	1.33496	0.31903	1.01049	0.75694	1785	15.7554	1793.89	11.239	1804.23	15.8629	1804.23	15.8629	98.9343
WELL-20	52531.4	3.32247	13.4832	1.15635	1.75959	1.77775	0.17149	1.34656	0.75745	1020.34	12.7073	1030.7	11.5103	1052.77	23.3848	1052.77	23.3848	96.9196
WELL-20	188188	3.86336	9.22582	0.71383	4.89656	1.50622	0.32557	1.3263	0.88055	1816.87	20.9992	1801.66	12.7009	1784.1	13.0129	1784.1	13.0129	101.836
WELL-20	111735	2.44149	17.1067	1.06314	0.65964	1.57332	0.08145	1.1593	0.73685	504.781	5.62868	514.396	6.3496	557.351	23.2045	504.781	5.62868	90.5678
WELL-20	72030.3	2.01452	9.94955	0.87947	3.91735	1.40363	0.28153	1.09267	0.77846	1599.05	15.474	1617.27	11.3543	1641.05	16.3543	1641.05	16.3543	97.4406
WELL-20	102992	3.39116	10.4154	0.95989	3.60756	1.4581	0.27127	1.09731	0.75257	1547.23	15.0942	1551.2	11.5925	1556.59	18.0198	1556.59	18.0198	99.3986
WELL-20	15035.6	1.38159	9.09164	1.99469	4.44926	2.42409	0.29372	1.37615	0.5677	1660.09	20.1409	1721.56	20.0995	1797.13	36.3229	1797.13	36.3229	92.3749
WELL-20	109030	3.82084	9.34422	0.7726	4.7301	1.17413	0.31867	0.8838	0.75273	1783.23	13.7683	1772.59	9.84169	1760.06	14.134	1760.06	14.134	101.317
WELL-20	204007	1.3691	12.0668	0.9258	2.43028	1.47745	0.21136	1.15137	0.7793	1236.07	12.9506	1251.6	10.6288	1278.39	18.039	1278.39	18.039	96.6897
WELL-20	52260.5	2.27564	13.5917	1.04375	1.72716	1.6959	0.16963	1.3334	0.78625	1010.08	12.4663	1018.69	10.9061	1037.23	21.1808	1037.23	21.1808	97.382
WELL-20	110026	3.64848	12.562	0.89401	2.19596	1.57737	0.19892	1.29927	0.82369	1169.51	13.8965	1179.76	11.0054	1198.63	17.6358	1198.63	17.6358	97.5704
WELL-20	85138.7	1.69611	9.95977	0.80497	4.08744	1.50914	0.29321	1.27622	0.84566	1657.56	18.6535	1651.8	12.3121	1644.46	14.9444	1644.46	14.9444	100.797
WELL-20	17973.5	2.08379	13.5253	0.97199	1.84475	1.54215	0.18136	1.18318	0.76723	1074.41	11.7093	1061.56	10.1546	1035.22	19.9992	1035.22	19.9992	103.785
WELL-20	399814	2.67231	9.88653	0.86235	4.0714	1.34692	0.28955	1.03467	0.76818	1639.27	14.9763	1648.59	10.9801	1660.49	15.9658	1660.49	15.9658	98.7219
WELL-20	372708	2.71636	8.93042	0.97315	5.25068	1.44394	0.33769	1.06675	0.73877	1875.55	17.3597	1860.88	12.3166	1844.52	17.6091	1844.52	17.6091	101.682
WELL-20	169299	1.17687	11.0657	0.85815	3.16604	1.42873	0.25245	1.14228	0.79951	1451.12	14.8426	1448.92	11.0253	1445.67	16.3452	1445.67	16.3452	100.376
WELL-20	110682	2.15193	9.13033	0.84984	4.80892	1.38531	0.31626	1.0939	0.78964	1771.43	16.9433	1786.46	11.6452	1804.04	15.4561	1804.04	15.4561	98.1923
WELL-20	27995.8	1.67846	10.7782	1.0376	3.23458	1.73428	0.25218	1.3883	0.8005	1449.72	18.0239	1465.49	13.4519	1488.39	19.6838	1488.39	19.6838	97.4018
WELL-20	101547	19.9943	13.1605	0.7539	1.95547	1.55923	0.1855	1.36464	0.8752	1096.95	13.7651	1100.33	10.4757	1106.99	15.0747	1106.99	15.0747	99.0932
WELL-20	92947.8	1.41072	9.71943	0.8324	4.21569	1.42972	0.29523	1.16207	0.81279	1667.63	17.0753	1677.08	11.7343	1688.9	15.3644	1688.9	15.3644	98.7409
WELL-20	40078.3	2.47774	13.6159	0.79035	1.69643	1.33222	0.167	1.07236	0.80494	995.577	9.89262	1007.19	8.51066	1032.52	15.9936	1032.52	15.9936	96.4224
WELL-20	115505	1.98536	8.96094	0.96302	4.77066	2.18477	0.30765	1.96107	0.89761	1729.11	29.7422	1779.75	18.3415	1839.65	17.4362	1839.65	17.4362	93.991
WELL-20	4469894	14.8066	12.9026	1.05342	2.12631	2.00718	0.19723	1.70854	0.85121	1160.45	18.1446	1157.39	13.8624	1151.65	20.9214	1151.65	20.9214	100.764
WELL-20	88736.6	2.14037	11.2414	0.82933	2.97411	1.3105	0.24077	1.01403	0.77377	1390.71	12.6848	1401.03	9.95863	1416.74	15.8737	1416.74	15.8737	98.1625
WELL-20	40356.6	1.92721	16.4371	1.00084	0.8565	1.87739	0.10176	1.58828	0.84601	624.717	9.45665	628.211	8.79483	640.832	21.5255	624.717	9.45665	97.4853
WELL-20	175566	2.37005	9.44093	1.02108	4.55943	1.67531	0.30953	1.32817	0.79279	1738.39	20.2376	1741.88	13.9518	1746.06	18.7019	1746.06	18.7019	99.5607
WELL-20	69884.2	2.21194	12.8507	1.19329	1.97868	1.65883	0.18333	1.15185	0.69438	1085.12	11.5037	1108.27	11.1892	1153.95	23.6907	1153.95	23.6907	94.0355
WELL-20	43529.4	5.5533	14.0622	0.86539	1.54974	1.4649	0.15744	1.17328	0.80093	942.525	10.2881	950.388	9.04091	968.66	17.9188	968.66	17.9188	97.3019

WELL-20	99844.7	3.89921	13.1723	0.82714	1.94513	1.38184	0.18459	1.10622	0.80054	1092.02	11.1123	1096.77	9.26711	1106.19	16.5523	1106.19	16.5523	98.7193
WELL-20	447180	1.92661	12.0962	0.77426	2.45538	1.16221	0.21381	0.86674	0.74577	1249.06	9.8419	1259.01	8.38582	1276.02	15.0954	1276.02	15.0954	97.8872
WELL-20	31588.5	2.14831	13.7578	1.03422	1.62811	1.56186	0.16219	1.15257	0.73794	968.932	10.3688	981.128	9.82484	1008.5	21.3791	1008.5	21.3791	96.0762
WELL-20	1477906	2.50166	9.20292	1.12309	4.90398	1.63238	0.32505	1.18463	0.7257	1814.37	18.7337	1802.94	13.7684	1789.74	20.4593	1789.74	20.4593	101.376
WELL-20	25393.6	0.98309	13.9468	0.91841	1.61809	1.50788	0.16381	1.19458	0.79223	977.913	10.8391	977.249	9.46294	975.75	18.7649	975.75	18.7649	100.222
WELL-20	237829	2.44369	12.6048	0.88392	2.1495	1.73028	0.19527	1.48744	0.85965	1149.89	15.6653	1164.89	11.9912	1192.89	17.4436	1192.89	17.4436	96.3952
WELL-20	137759	1.5403	13.3596	1.70661	1.7972	2.17612	0.1733	1.35019	0.62046	1030.26	12.8558	1044.44	14.1976	1074.25	34.2751	1074.25	34.2751	95.905
WELL-20	182462	2.40977	5.36623	0.79198	13.602	1.35264	0.52639	1.09653	0.81066	2726.23	24.3772	2722.4	12.7945	2719.55	13.0546	2719.55	13.0546	100.246
WELL-20	97257.2	1.88173	13.2289	0.9041	1.86705	1.5282	0.17873	1.23169	0.80598	1060.01	12.0391	1069.48	10.1052	1088.84	18.108	1088.84	18.108	97.3522
WELL-20	85937	2.5427	13.4962	1.05199	1.69827	1.80944	0.16586	1.4722	0.81362	989.282	13.5017	1007.88	11.5642	1048.55	21.2282	1048.55	21.2282	94.3475
WELL-20	97556.8	1.06107	9.38289	1.08969	4.49642	1.5118	0.30503	1.0476	0.69295	1716.18	15.7846	1730.31	12.5584	1747.42	19.9605	1747.42	19.9605	98.2125
WELL-20	305694	2.89777	12.5179	0.8034	2.23794	1.4415	0.20239	1.19684	0.83028	1188.16	12.9868	1193.01	10.1167	1201.8	15.8161	1201.8	15.8161	98.8652
WELL-20	7818.74	0.8433	12.9176	1.49881	1.85409	1.94477	0.17708	1.20979	0.62207	1051.02	11.7327	1064.89	12.8287	1093.42	30.4925	1093.42	30.4925	96.1222
WELL-20	438267	2.91311	10.5272	0.85092	3.64498	1.72975	0.2773	1.50598	0.87063	1577.74	21.0763	1559.41	13.7832	1534.66	16.0139	1534.66	16.0139	102.807
WELL-20	23964.6	1.54536	13.7728	1.22103	1.63847	1.8244	0.16437	1.33515	0.73183	981.024	12.1502	985.124	11.5041	994.258	25.2696	994.258	25.2696	98.669
WELL-20	199952	1.50658	11.7784	1.05518	2.65942	1.95029	0.22648	1.64019	0.841	1316.01	19.5244	1317.26	14.3924	1319.27	20.4519	1319.27	20.4519	99.7529
WELL-20	119030	1.86716	9.99096	0.96821	3.94325	1.74783	0.28494	1.45506	0.83249	1616.21	20.8005	1622.61	14.1579	1630.9	17.9969	1630.9	17.9969	99.0991
WELL-20	70153	2.12376	13.3109	0.93746	1.87087	1.32368	0.18039	0.93235	0.70436	1069.11	9.18521	1070.84	8.75901	1074.37	18.8694	1074.37	18.8694	99.5107
WELL-20	125648	3.34222	13.7038	0.88758	1.71864	1.45099	0.17042	1.1477	0.79098	1014.42	10.7727	1015.52	9.31407	1017.85	17.981	1017.85	17.981	99.6631
WELL-20	206532	1.41607	5.62672	0.82134	12.5801	1.42335	0.51157	1.16246	0.81671	2663.32	25.3614	2648.73	13.389	2637.6	13.6404	2637.6	13.6404	100.975
WELL-20	96758.8	4.05842	13.0558	0.97666	1.96391	1.74895	0.1856	1.45038	0.82929	1097.5	14.6366	1103.22	11.7675	1114.56	19.5114	1114.56	19.5114	98.4693
WELL-20	91428.4	1.62149	9.6659	0.95029	4.29152	1.6003	0.30013	1.28754	0.80456	1691.93	19.16	1691.74	13.1791	1691.48	17.5263	1691.48	17.5263	100.026
WELL-20	17993	2.15487	10.594	0.73573	3.14608	1.35166	0.24278	1.13377	0.83879	1401.12	14.2777	1444.04	10.4147	1507.8	13.8986	1507.8	13.8986	92.9249
WELL-20	31147.8	0.72235	13.1662	0.97114	1.81666	1.68715	0.17386	1.36312	0.80794	1033.34	13.0148	1051.48	11.0495	1089.34	19.9016	1089.34	19.9016	94.8593
WELL-20	71171.3	10.6111	13.4595	0.89041	1.80048	1.27002	0.17557	0.90534	0.71286	1042.7	8.71613	1045.63	8.29097	1051.78	17.9659	1051.78	17.9659	99.1369
WELL-20	193701	3.23191	13.1133	0.9962	1.92303	1.57713	0.18238	1.22265	0.77523	1079.94	12.1571	1089.12	10.5358	1107.51	19.9002	1107.51	19.9002	97.5103
WELL-20	45490.4	2.17925	13.9385	0.96961	1.57742	1.44698	0.15956	1.06642	0.73699	954.312	9.45951	961.353	8.9922	977.473	19.9304	977.473	19.9304	97.6306
WELL-20	303551	5.08723	13.5556	0.5879	1.70493	1.22749	0.16709	1.07754	0.87784	996.06	9.94491	1010.38	7.85612	1041.54	11.8831	1041.54	11.8831	95.633
WELL-20	47540.6	2.40888	12.8173	0.9842	2.0835	1.39903	0.1939	0.99428	0.71069	1142.49	10.4099	1143.39	9.59887	1145.07	19.5404	1145.07	19.5404	99.7754
WELL-20	85874.7	4.38077	12.7962	0.88718	1.98989	1.34615	0.18457	1.01163	0.7515	1091.9	10.1612	1112.09	9.09723	1151.74	17.6302	1151.74	17.6302	94.8047
WELL-20	523577	6.75206	12.6065	1.10345	2.13433	1.55721	0.19469	1.09877	0.7056	1146.73	11.5428	1159.99	10.7674	1184.86	21.8092	1184.86	21.8092	96.7815
WELL-20	2146376	3.59419	12.5636	0.95303	2.2275	1.50815	0.20244	1.16886	0.77503	1188.44	12.6859	1189.73	10.5692	1192.09	18.8025	1192.09	18.8025	99.6938
WELL-20	78177.7	2.65509	11.3613	0.78254	2.80369	1.55211	0.23088	1.34038	0.86359	1339.09	16.2073	1356.52	11.6171	1384.09	15.0305	1384.09	15.0305	96.7481
WELL-20	227305	2.32296	11.234	1.10234	2.90214	1.67759	0.23614	1.26455	0.75379	1366.59	15.5724	1382.47	12.6693	1407.05	21.1065	1407.05	21.1065	97.124
WELL-20	305648	2.93437	12.8956	0.89125	2.06473	1.67971	0.19283	1.42376	0.84762	1136.7	14.8373	1137.19	11.4909	1138.13	17.7112	1138.13	17.7112	99.8743
WELL-20	46121.2	2.31963	13.3723	1.24398	1.80872	1.78417	0.17579	1.27696	0.71572	1043.91	12.307	1048.61	11.6667	1058.44	25.0901	1058.44	25.0901	98.6271
WELL-20	133289	5.54716	10.1778	0.88821	3.99301	1.65985	0.2942	1.4022	0.84478	1662.46	20.5479	1632.78	13.4791	1594.72	16.5863	1594.72	16.5863	104.248

WELL-22 (used in complied Garber-Wellington dataset) (35.213306˚/-97.106472˚)

Sample	206Pb 204Pb	U/Th	206Pb* 207Pb*	Â± (%)	207Pb* 235U	Â± (%)	206Pb* 238U	Â± (%)	error corr.	206Pb* 238U	Â± (Ma)	207Pb* 235U	Â± (Ma)	206Pb* 207Pb*	Â± (Ma)	Best age (Ma)	Â± (Ma)	Conc (%)
WELL-22	44795.2	2.27455	10.6022	0.34091	3.28517	1.76598	0.25554	1.73265	0.98112	1466.97	22.7329	1477.55	13.7478	1492.75	6.46333	1492.75	6.46333	98.2731
WELL-22	44053.9	4.0643	9.76846	0.41643	3.99067	2.33117	0.28594	2.2935	0.98384	1621.18	32.8753	1632.3	18.9296	1646.63	7.74144	1646.63	7.74144	98.4544
WELL-22	32684.4	2.77411	10.6575	0.49728	3.27127	0.88169	0.2561	0.72369	0.8208	1469.87	9.51176	1474.24	6.85667	1480.53	9.5476	1480.53	9.5476	99.2801
WELL-22	136761	1.51218	15.4042	0.70236	1.04762	0.96389	0.1182	0.66011	0.68484	720.201	4.49817	727.702	5.00745	750.857	14.8338	720.201	4.49817	95.9172
WELL-22	39066.5	2.2005	12.6838	0.73009	2.11084	1.04854	0.19647	0.74663	0.71207	1156.32	7.90336	1152.35	7.22435	1144.92	14.6213	1144.92	14.6213	100.995
WELL-22	157470	1.09415	13.1755	0.76992	1.83038	1.16174	0.17637	0.86997	0.74885	1047.09	8.40805	1056.42	7.62858	1075.72	15.4581	1075.72	15.4581	97.338
WELL-22	148393	3.25861	12.7993	0.44227	2.04067	1.02528	0.19102	0.92496	0.90215	1126.9	9.56315	1129.18	6.98685	1133.6	8.80531	1133.6	8.80531	99.4089
WELL-22	35856.8	0.93756	13.4604	0.68381	1.77746	0.9202	0.1757	0.61549	0.66886	1043.44	5.92944	1037.25	5.97958	1024.21	13.8412	1024.21	13.8412	101.878
WELL-22	15893	1.81723	11.1164	0.59098	2.90221	0.82967	0.23798	0.56566	0.68179	1376.18	7.00969	1382.49	6.26553	1392.22	11.6441	1392.22	11.6441	98.8476
WELL-22	25258.1	2.97611	12.1703	0.58267	2.32487	0.79064	0.2076	0.53265	0.6737	1216	5.90288	1219.91	5.61357	1226.85	11.4636	1226.85	11.4636	99.1163
WELL-22	142725	3.1438	12.7468	0.64572	2.09958	1.02863	0.19528	0.8007	0.77841	1149.89	8.43271	1148.67	7.07502	1146.38	12.8107	1146.38	12.8107	100.306
WELL-22	69984.1	1.91012	10.6043	0.5488	3.36009	0.80597	0.2602	0.59002	0.73206	1490.89	7.85341	1495.14	6.30685	1501.17	10.38	1501.17	10.38	99.3149
WELL-22	1800.7	3.17476	17.8815	1.17912	0.42365	1.45979	0.06465	0.65347	0.44765	403.837	2.558	358.655	4.41086	75.757	31.0329	403.837	2.558	533.069
WELL-22	61095.1	0.76232	16.0728	1.3726	0.56754	1.51957	0.06674	0.65194	0.42903	416.497	2.62944	456.423	5.58642	662.781	29.3894	416.497	2.62944	62.8407
WELL-22	50865.1	1.31674	14.9476	0.76247	1.19731	0.93889	0.131	0.54487	0.58033	793.565	4.06835	799.346	5.19476	815.512	15.9868	793.565	4.06835	97.3088
WELL-22	30088.1	6.40967	13.6876	0.52453	1.66223	0.7282	0.16692	0.50222	0.68967	995.093	4.63093	994.228	4.61667	992.339	10.703	992.339	10.703	100.278
WELL-22	13509.7	2.64743	13.4067	0.77877	1.67207	3.06363	0.16573	2.91635	0.95192	988.554	26.7281	997.972	19.4682	1018.71	19.0061	1018.71	19.0061	97.04
WELL-22	148431	1.72314	9.86532	0.54938	4.14618	0.87157	0.29873	0.67662	0.77632	1685.01	10.0328	1663.46	7.13023	1636.33	10.204	1636.33	10.204	102.975
WELL-22	40823.3	1.53131	17.7034	0.56405	0.52774	1.02047	0.0686	0.84209	0.8252	427.74	3.48508	430.307	3.57933	444.053	12.8382	427.74	3.48508	96.3264
WELL-22	15692.8	0.77642	11.7434	0.88173	2.59042	1.15174	0.22432	0.73879	0.64146	1304.67	8.726	1297.93	8.4376	1286.79	17.1958	1286.79	17.1958	101.39
WELL-22	37389.2	4.12888	13.0278	0.64788	1.95284	0.88609	0.18656	0.60268	0.68015	1102.7	6.10842	1099.43	5.95032	1092.96	12.9949	1092.96	12.9949	100.892
WELL-22	45881.9	84.8651	13.2874	0.73547	1.79919	0.98008	0.17516	0.64773	0.66089	1040.47	6.22369	1045.17	6.39652	1055.01	14.8335	1055.01	14.8335	98.6218
WELL-22	32698.4	1.04376	13.4652	0.75562	1.68676	1.06375	0.1667	0.74774	0.70293	993.917	6.88736	1003.54	6.78113	1024.6	15.3083	1024.6	15.3083	97.0056
WELL-22	22448.3	1.45618	17.9691	0.83819	0.50558	2.39081	0.06707	2.23634	0.93539	418.503	9.06183	415.47	8.15208	398.637	18.948	418.503	9.06183	104.984
WELL-22	104724	1.07407	13.7799	0.67275	1.63327	1.09538	0.16454	0.86435	0.78909	981.94	7.87262	983.121	6.89867	985.767	13.679	985.767	13.679	99.6117
WELL-22	73647.3	0.89892	11.8345	0.53382	2.49837	0.84984	0.21624	0.66116	0.77798	1261.97	7.57776	1271.56	6.16261	1287.8	10.3952	1287.8	10.3952	97.9938
WELL-22	78814.4	1.11325	9.98928	0.39275	3.77762	0.75172	0.27584	0.64078	0.85241	1570.37	8.93063	1588	6.03531	1611.48	7.3238	1611.48	7.3238	97.4486
WELL-22	17226.3	0.63937	13.29	0.73556	1.75484	0.96691	0.17201	0.61692	0.63803	1023.17	5.8367	1028.95	6.2541	1041.23	15.0448	1041.23	15.0448	98.2658
WELL-22	18928.7	0.7976	13.4139	0.71537	1.73116	1.01561	0.17112	0.67847	0.66804	1018.26	6.39055	1020.18	6.53662	1024.29	15.2914	1024.29	15.2914	99.4116
WELL-22	24348.4	11.352	14.8201	1.08164	1.02719	1.37425	0.11203	0.84727	0.61653	684.5	5.5023	717.523	7.07067	822.234	22.604	684.5	5.5023	83.2488
WELL-22	39206.5	2.59869	11.2466	0.53344	2.88739	0.86386	0.23783	0.67604	0.78258	1375.42	8.37336	1378.62	6.51518	1383.57	10.3298	1383.57	10.3298	99.4107
WELL-22	239795	3.09098	5.19581	0.3521	12.1801	0.77163	0.46205	0.68661	0.88982	2448.6	13.988	2618.38	7.24064	2752.4	5.78621	2752.4	5.78621	88.9623
WELL-22	57535.8	3.09443	9.79488	0.34832	4.01142	0.73869	0.28746	0.65074	0.88094	1628.84	9.36647	1636.51	6.0039	1646.37	6.48413	1646.37	6.48413	98.9352
WELL-22	120933	1.98767	9.78345	0.38646	4.00823	0.66495	0.28683	0.54106	0.81369	1625.67	7.77447	1635.87	5.40368	1648.98	7.16746	1648.98	7.16746	98.5863
WELL-22	402208	1.45556	9.46912	0.41574	4.38724	0.71846	0.30363	0.58596	0.81558	1709.27	8.79776	1709.94	5.94105	1710.75	7.64713	1710.75	7.64713	99.9134
WELL-22	58235.9	2.6427	17.664	0.64383	0.53694	0.91672	0.0696	0.65034	0.70943	433.766	2.72815	436.402	3.25187	450.311	14.3707	433.766	2.72815	96.326
WELL-22	118348	1.58688	11.1996	0.57831	2.8158	0.93438	0.23072	0.73389	0.78543	1338.25	8.86892	1359.75	7.00129	1393.7	11.0931	1393.7	11.0931	96.0215
WELL-22	145664	3.24713	8.82047	0.45871	5.07074	0.9049	0.32704	0.78002	0.86199	1824.04	12.3921	1831.22	7.67481	1839.38	8.30622	1839.38	8.30622	99.166
WELL-22	169925	0.8484	9.76595	0.43539	4.02804	0.83611	0.28777	0.71378	0.85369	1630.36	10.2822	1639.88	6.80132	1652.09	8.07089	1652.09	8.07089	98.6846
WELL-22	188791	3.11336	12.339	0.47822	2.26424	0.96463	0.20441	0.83773	0.86845	1198.94	9.16514	1201.23	6.79416	1205.35	9.42139	1205.35	9.42139	99.4679
WELL-22	256299	0.98253	13.0458	0.74596	1.91668	1.03477	0.1829	0.71714	0.69305	1082.82	7.14821	1086.91	6.90462	1095.13	14.9336	1095.13	14.9336	98.8759
WELL-22	38047.1	2.06926	9.87169	0.48563	3.91708	0.74057	0.28366	0.55744	0.75271	1609.75	7.94065	1617.22	5.99044	1626.93	9.06497	1626.93	9.06497	98.9437
WELL-22	4634.62	3.03179	12.1854	1.52538	2.22143	2.24252	0.20542	0.84915	0.37866	1204.35	9.3283	1187.82	15.7031	1157.84	41.1673	1157.84	41.1673	104.017
WELL-22	60184.3	2.73949	8.74032	0.55189	5.21787	0.85722	0.33393	0.6556	0.7648	1857.42	10.5799	1855.54	7.30433	1853.42	9.98175	1853.42	9.98175	100.216
WELL-22	127357	1.63413	13.1071	0.55621	1.94421	0.70989	0.1865	0.4411	0.62137	1102.37	4.46955	1096.45	4.75991	1084.71	11.1326	1084.71	11.1326	101.628
WELL-22	13594.2	1.51441	16.9927	1.29025	0.5455	1.55217	0.06899	0.85696	0.5521	430.084	3.56539	442.043	5.56286	504.787	28.4787	430.084	3.56539	85.201
WELL-22	111634	5.13733	11.8779	0.71563	2.56345	1.24539	0.22299	1.01925	0.81841	1297.68	11.9803	1290.28	9.09707	1277.97	13.9327	1277.97	13.9327	101.542
WELL-22	74522.2	3.90959	13.26	0.5306	1.78902	0.81774	0.17392	0.62134	0.75982	1033.65	5.93401	1041.47	5.32616	1057.95	10.7022	1057.95	10.7022	97.7031
WELL-22	19801.2	2.97287	13.1048	0.74521	1.86349	0.93373	0.18029	0.52161	0.55863	1068.58	5.1363	1068.23	6.17002	1067.53	15.5577	1067.53	15.5577	100.098
WELL-22	53272.2	3.14643	16.7037	0.38485	0.74223	0.83946	0.09109	0.74362	0.88584	561.959	4.00187	563.706	3.6313	570.744	8.47516	561.959	4.00187	98.4607
WELL-22	15914.7	5.59544	14.2379	0.47071	1.19057	0.81388	0.12566	0.66349	0.81522	763.037	4.77453	796.224	4.49147	890.265	9.71554	763.037	4.77453	85.709
WELL-22	81739.9	3.65874	5.25388	0.43707	12.8736	0.7816	0.49534	0.64794	0.829	2593.75	13.8363	2670.44	7.36429	2729.04	7.19507	2729.04	7.19507	95.0426
WELL-22	52594.1	3.25433	12.8365	0.48727	2.05454	1.1336	0.19367	1.02252	0.90202	1141.2	10.6946	1133.81	7.74225	1119.67	9.76429	1119.67	9.76429	101.924
WELL-22	9865.93	2.38596	10.6132	0.54165	3.2908	2.57715	0.25956	2.51337	0.97525	1487.6	33.3888	1478.88	20.0719	1466.36	10.8226	1466.36	10.8226	101.448
WELL-22	66137.2	3.22054	13.3246	0.90335	1.70717	1.2212	0.16701	0.82092	0.67222	995.618	7.57333	1011.22	7.81963	1045.21	18.2548	1045.21	18.2548	95.2557
WELL-22	14200.8	2.23987	11.0013	0.56332	3.12443	0.9507	0.25439	0.76479	0.80445	1461.05	9.99819	1438.72	7.31286	1405.85	10.8143	1405.85	10.8143	103.926
WELL-22	24763.4	1.8978	10.5871	0.68183	3.28939	0.94846	0.25666	0.65538	0.691	1472.72	8.62883	1478.55	7.38541	1486.9	12.9859	1486.9	12.9859	99.0466
WELL-22	26923.3	1.41894	13.5865	0.73618	1.63914	0.90715	0.16429	0.50838	0.56042	980.566	4.62439	985.383	5.72095	996.109	15.2484	996.109	15.2484	98.4397
WELL-22	41223.5	3.29856	12.1998	0.53337	2.34253	0.89646	0.21019	0.71868	0.80168	1229.81	8.04646	1225.29	6.37935	1217.33	10.5444	1217.33	10.5444	101.026
WELL-22	6333.1	0.71944	17.5673	0.88052	0.55233	1.06949	0.07403	0.58076	0.54302	460.388	2.58049	446.523	3.86388	375.688	20.2025	460.388	2.58049	122.545
WELL-22	39847.8	2.5096	12.6861	0.93163	2.10677	1.48355	0.19655	1.15219	0.77664	1156.76	12.2007	1151.02	10.2154	1140.24	18.5852	1140.24	18.5852	101.449
WELL-22	19617.4	1.50626	13.4903	0.92371	1.68075	1.14155	0.16752	0.63152	0.55322	998.459	5.84146	1001.27	7.2674	1007.4	19.272	1007.4	19.272	99.1129
WELL-22	5515.07	1.42661	13.075	1.56789	1.80088	2.45651	0.17828	1.33348	0.54283	1057.57	13.0064	1045.78	16.0389	1021.2	41.7667	1021.2	41.7667	103.562
WELL-22	71362.1	2.99364	13.0571	0.78491	1.94587	1.02511	0.18637	0.65902	0.64287	1101.67	6.67371	1097.02	6.87557	1087.83	15.737	1087.83	15.737	101.273
WELL-22	257268	2.61952	12.7882	0.54721	2.04869	0.91625	0.19188	0.73489	0.80207	1131.57	7.62688	1131.86	6.25191	1132.4	10.9129	1132.4	10.9129	99.9267
WELL-22	21653.9	2.7458	14.1636	0.50769	1.48965	0.76171	0.15588	0.53554	0.70308	933.823	4.65565	926.172	4.62774	907.979	11.1772	907.979	11.1772	102.846
WELL-22	5714.76	1.04615	15.7282	1.83292	0.57501	2.13704	0.06894	0.94943	0.44427	429.744	3.94709	461.247	7.92212	621.328	41.3008	429.744	3.94709	69.1654
WELL-22	42992.8	2.75863	12.3356	0.52525	2.30728	0.79291	0.20903	0.59308	0.74799	1223.64	6.61001	1214.53	5.61677	1198.38	10.3621	1198.38	10.3621	102.108
WELL-22	41577.6	1.08971	11.5013	0.47176	2.66333	0.87547	0.22498	0.73735	0.84224	1308.12	8.72977	1318.35	6.46285	1334.98	9.12701	1334.98	9.12701	97.9881
WELL-22	58289	2.35798	11.3177	0.42864	2.86688	0.74658	0.23803	0.61097	0.81837	1376.45	7.57256	1373.25	5.62028	1368.27	8.25977	1368.27	8.25977	100.598
WELL-22	6971.79	1.06574	16.9308	0.57322	0.66578	0.7956	0.08549	0.54105	0.68005	528.792	2.74682	518.143	3.22879	471.457	12.9228	528.792	2.74682	112.161
WELL-22	39286.7	1.31492	10.1311	0.52174	3.63177	0.89984	0.27015	0.73072	0.81206	1541.57	10.0189	1556.52	7.16429	1576.85	9.82722	1576.85	9.82722	97.7627
WELL-22	320585	2.35724	12.7241	0.3888	2.08396	0.57648	0.19422	0.42563	0.73832	1144.18	4.46221	1143.54	3.95544	1142.3	7.71098	1142.3	7.71098	100.164
WELL-22	60680.9	9.01045	13.3673	0.55273	1.76659	0.91112	0.1733	0.72398	0.7946	1030.26	6.89338	1033.27	5.9075	1039.63	11.1862	1039.63	11.1862	99.0992
WELL-22	11392.2	3.80892	13.7384	0.74303	1.63014	1.11875	0.1667	0.83565	0.74694	993.924	7.69707	981.912	7.04072	955.131	15.1908	955.131	15.1908	104.061
WELL-22	145144	1.42648	17.6877	0.87106	0.49445	1.08866	0.06409	0.65298	0.5998	400.474	2.53546	407.937	3.65733	450.38	19.3689	400.474	2.53546	88.9192
WELL-22	641279	2.19058	13.3778	0.52386	1.78534	0.88683	0.17478	0.71557	0.80688	1038.38	6.86277	1040.13	5.77189	1043.82	10.5872	1043.82	10.5872	99.4787
WELL-22	35854	3.3795	12.5498	0.39937	2.1921	0.73054	0.2022	0.60943	0.83422	1187.15	6.60782	1178.53	5.09404	1162.72	8.0034	1162.72	8.0034	102.101
WELL-22	24749.2	2.27333	12.2437	0.38216	1.97248	0.94865	0.17792	0.86812	0.91511	1055.58	8.4528	1106.16	6.39201	1207.01	7.53565	1207.01	7.53565	87.454
WELL-22	31608	1.85154	12.3456	0.3746	2.2227	0.65948	0.20186	0.54169	0.82139	1185.29	5.86486	1188.22	4.61842	1193.55	7.40268	1193.55	7.40268	99.3079
WELL-22	13113.3	2.66437	17.2061	1.22651	0.52654	1.49043	0.06757	0.81832	0.54905	421.477	3.3387	429.511	5.21998	472.839	27.5816	421.477	3.3387	89.1375
WELL-22	38793.5	1.95276	12.6319	0.63268	1.98056	1.30303	0.18387	1.13763	0.87307	1088.08	11.3901	1108.91	8.79197	1149.97	12.5976	1149.97	12.5976	94.6185
WELL-22	35369.8	1.34396	4.84995	0.37462	16.2522	0.80701	0.57781	0.71457	0.88546	2939.81	16.8693	2891.75	7.71942	2858.44	6.10414	2858.44	6.10414	102.847
WELL-22	4106.06	1.83327	17.0011	1.12924	0.55434	2.40447	0.07341	0.60697	0.25243	456.644	2.6758	447.837	8.70744	402.832	52.0915	456.644	2.6758	113.358
WELL-22	21720	2.47815	12.5343	0.69706	2.19698	0.95536	0.2032	0.64554	0.67571	1192.5	7.02803	1180.08	6.66635	1157.37	13.9697	1157.37	13.9697	103.036
WELL-22	65765.8	14.9345	12.8308	0.43431	1.98073	0.92487	0.18652	0.81596	0.88224	1102.5	8.26874	1108.97	6.2405	1121.65	8.69259	1121.65	8.69259	98.2932
WELL-22	10283.5	1.35821	9.7274	0.70637	4.09031	1.11357	0.29503	0.77361	0.69471	1666.63	11.3614	1652.37	9.08596	1634.27	14.8792	1634.27	14.8792	101.98
WELL-22	14979.6	3.065	8.76418	0.45166	3.98393	1.80379	0.25773	1.74626	0.9681	1478.23	23.0679	1630.93	14.6415	1833.88	8.18921	1833.88	8.18921	80.6066

WELL-22	144214	1.20086	10.4202	0.47337	3.24009	1.02752	0.24735	0.91198	0.88755	1424.82	11.6582	1466.81	7.97284	1528.11	8.91601	1528.11	8.91601	93.2407
WELL-22	30386.1	1.93565	13.2207	0.4304	1.83195	0.72013	0.17837	0.57653	0.80059	1058.04	5.6256	1056.98	4.73011	1054.81	8.69105	1054.81	8.69105	100.306
WELL-22	32220.1	2.53458	10.7844	0.48465	3.21993	0.81317	0.25534	0.64738	0.79612	1465.95	8.48851	1461.97	6.30022	1456.17	9.35898	1456.17	9.35898	100.672
WELL-22	50363.8	2.01384	8.11042	0.37302	6.08299	0.73961	0.3618	0.63814	0.86281	1990.72	10.9293	1987.81	6.44965	1984.78	6.65433	1984.78	6.65433	100.299
WELL-22	124103	1.34777	16.9322	0.67225	0.63721	1.09879	0.07909	0.86904	0.7909	490.698	4.10608	500.577	4.34234	545.978	14.6913	490.698	4.10608	89.8751
WELL-22	548610	1.86685	18.071	0.72579	0.48778	0.93089	0.06452	0.5829	0.62618	403.054	2.27747	403.399	3.09895	405.355	16.2466	403.054	2.27747	99.4323
WELL-22	50740.6	1.29523	17.6937	0.80068	0.53325	1.22953	0.06938	0.93282	0.75868	432.416	3.90135	433.962	4.34197	442.157	17.8159	432.416	3.90135	97.7968
WELL-22	57677.8	1.75287	10.1724	0.47377	3.68651	0.75832	0.27503	0.59104	0.77941	1566.28	8.21858	1568.45	6.05695	1571.36	8.8972	1571.36	8.8972	99.6767
WELL-22	759793	0.95131	6.40984	0.35156	9.40979	0.63975	0.44132	0.5345	0.83548	2356.55	10.5502	2378.79	5.872	2397.88	5.98014	2397.88	5.98014	98.2765
WELL-22	115947	3.34456	8.9574	0.38735	4.63375	0.88381	0.30398	0.79436	0.89879	1711.03	11.9376	1755.37	7.38131	1808.55	7.04213	1808.55	7.04213	94.6075
WELL-22	43191.1	1.35666	12.305	0.51381	2.32732	0.87759	0.21036	0.70952	0.80848	1230.74	7.94939	1220.66	6.23289	1202.86	10.1774	1202.86	10.1774	102.318
WELL-22	46260.1	1.26629	11.2162	0.51774	2.8808	0.80005	0.2372	0.60966	0.76203	1372.11	7.53493	1376.9	6.03036	1384.32	9.94974	1384.32	9.94974	99.1185
WELL-22	34278	1.46677	17.3769	0.75727	0.56738	1.01706	0.07265	0.66883	0.65761	452.08	2.92004	456.321	3.73833	477.715	16.9533	452.08	2.92004	94.6337
WELL-22	44300.8	2.25314	11.9732	0.4955	2.47953	0.9988	0.21796	0.86587	0.86691	1271.11	9.98894	1266.08	7.22712	1257.57	9.73754	1257.57	9.73754	101.077
WELL-22	25408.3	1.99063	10.1057	0.47844	3.78376	0.81495	0.28121	0.6582	0.80766	1597.44	9.31285	1589.3	6.54515	1578.5	8.99072	1578.5	8.99072	101.2
WELL-22	36615.9	1.21371	17.5164	1.10495	0.54987	1.31913	0.07094	0.71441	0.54157	441.818	3.05064	444.912	4.75211	460.924	24.6008	441.818	3.05064	95.8548
WELL-22	18911.9	1.54773	17.0129	0.69568	0.65699	1.02565	0.08283	0.73341	0.71507	512.972	3.61639	512.771	4.12924	511.874	15.7778	512.972	3.61639	100.214
WELL-22	57050	1.9545	10.691	0.41658	3.29509	0.76969	0.25821	0.64672	0.84024	1480.67	8.55565	1479.89	5.99578	1478.77	7.91344	1478.77	7.91344	100.129
WELL-22	54765.5	4.49251	12.9877	0.34622	1.90983	0.80295	0.18195	0.72375	0.90136	1077.59	7.18207	1084.52	5.35117	1098.45	6.94494	1098.45	6.94494	98.1012
WELL-22	16543.9	1.60063	17.812	0.79359	0.56978	1.16003	0.07538	0.73319	0.63205	468.473	3.31297	457.875	4.27536	405.01	20.1249	468.473	3.31297	115.669
WELL-22	30840.3	1.49369	17.3296	0.73298	0.54538	1.04349	0.06968	0.73168	0.70119	434.246	3.07264	441.962	3.73922	482.368	16.4548	434.246	3.07264	90.0239
WELL-22	35654	0.98376	10.8799	0.59692	3.16497	0.87146	0.25288	0.63412	0.72765	1453.33	8.2508	1448.66	6.72421	1441.79	11.3914	1441.79	11.3914	100.8
WELL-22	32822.4	3.11974	12.5883	0.44863	2.14448	0.81981	0.1985	0.67837	0.82746	1167.28	7.24291	1163.27	5.67706	1155.8	9.11392	1155.8	9.11392	100.993
WELL-22	1504.03	2.86445	7.13937	4.98721	5.60593	6.46995	0.3123	2.38061	0.36795	1752.01	36.5215	1917.01	55.8061	2100.51	105.749	2100.51	105.749	83.4086
WELL-22	69038.5	3.50231	12.8281	0.73058	2.08586	1.17892	0.19621	0.92488	0.78451	1154.91	9.77936	1144.16	8.09158	1123.84	14.5853	1123.84	14.5853	102.764
WELL-22	8229231	2.62352	12.3768	0.76885	2.26111	1.02691	0.20469	0.68075	0.66291	1200.44	7.4562	1200.25	7.22982	1199.89	15.1371	1199.89	15.1371	100.046
WELL-22	144760	1.85399	10.7976	0.39678	3.17635	0.72664	0.25123	0.60871	0.8377	1444.82	7.87886	1451.43	5.61157	1461.09	7.54251	1461.09	7.54251	98.8863
WELL-22	7953.37	2.75355	13.8964	0.78519	1.50252	1.18167	0.1567	0.88268	0.74698	938.411	7.70851	931.408	7.20402	914.889	16.1666	914.889	16.1666	102.571
WELL-22	109186	2.98327	11.8812	0.3911	2.47059	0.8322	0.21512	0.73449	0.88259	1256.06	8.38253	1263.46	6.01535	1276.07	7.61083	1276.07	7.61083	98.4322
WELL-22	414388	2.48843	11.2447	0.35895	2.84212	0.85201	0.23395	0.7727	0.90692	1355.17	9.44401	1366.73	6.39955	1384.83	6.89339	1384.83	6.89339	97.8583
WELL-22	11217.4	2.06378	14.2552	0.58326	1.43082	0.86073	0.15199	0.60681	0.705	912.099	5.16103	901.893	5.14437	876.996	12.6349	912.099	5.16103	104.003
WELL-22	14229.9	1.63433	17.4939	0.83563	0.56836	1.24214	0.07409	0.75894	0.61099	460.728	3.37461	456.956	4.5707	438.01	21.8867	460.728	3.37461	105.187
WELL-22	102291	2.41357	10.9362	0.56085	2.96894	0.95416	0.23796	0.77184	0.80892	1376.06	9.56393	1399.7	7.24746	1435.88	10.6986	1435.88	10.6986	95.8342
WELL-22	7049.22	1.00248	16.0157	0.74684	0.507	1.04136	0.06144	0.72169	0.69303	384.395	2.69307	416.431	3.55735	597.994	16.2458	384.395	2.69307	64.2808
WELL-22	25485.2	2.21981	13.1746	0.47576	1.90941	0.74328	0.1854	0.53618	0.72137	1096.38	5.40586	1084.38	4.95311	1060.36	10.3583	1060.36	10.3583	103.397
WELL-22	35156.2	2.63151	13.7039	0.87872	1.41504	1.26128	0.14261	0.90317	0.71607	859.411	7.26679	895.28	7.50402	984.921	17.9203	984.921	17.9203	87.2569
WELL-22	5064.26	2.14557	11.9874	1.00682	2.31972	1.29864	0.21031	0.77082	0.59356	1230.49	8.63464	1218.34	9.21434	1196.88	20.6032	1196.88	20.6032	102.808
WELL-22	37331.1	3.54588	12.7833	0.58411	2.00504	0.77417	0.1883	0.50677	0.6546	1112.15	5.17667	1117.22	5.24498	1127.1	11.6426	1127.1	11.6426	98.673
WELL-22	64471.8	1.96167	9.83772	0.37815	3.80328	0.71603	0.27393	0.60764	0.84863	1560.73	8.42296	1593.44	5.75684	1636.96	7.03437	1636.96	7.03437	95.3435
WELL-22	93765.4	0.70345	5.23444	0.40444	13.8924	0.70891	0.53164	0.5822	0.82125	2748.36	13.0271	2742.4	6.71495	2738	6.65253	2738	6.65253	100.378
WELL-22	40255.7	6.02646	13.4593	0.55307	1.71941	0.81681	0.16988	0.59807	0.7322	1011.47	5.59858	1015.8	5.24397	1025.14	11.2557	1025.14	11.2557	98.6668
WELL-22	19183.3	2.16425	10.6244	0.45888	3.32168	0.80616	0.25983	0.66267	0.822	1488.97	8.81034	1486.16	6.29163	1482.13	8.70124	1482.13	8.70124	100.461
WELL-22	23948.3	3.09645	10.3403	0.53936	3.55453	0.99914	0.27019	0.83874	0.83947	1541.76	11.5013	1539.45	7.91776	1536.25	10.2167	1536.25	10.2167	100.359
WELL-22	63062.1	2.99612	17.8583	0.63984	0.5756	1.01548	0.0754	0.78767	0.77566	468.601	3.56008	461.63	3.76686	427.068	14.2927	468.601	3.56008	109.725
WELL-22	113967	3.07181	10.7476	0.54777	3.25451	0.81178	0.25584	0.59902	0.7379	1468.55	7.86679	1470.25	6.30536	1472.7	10.3971	1472.7	10.3971	99.718
WELL-22	9943.18	1.07116	13.1129	0.925	1.83604	2.44261	0.17923	2.2368	0.91574	1062.75	21.9155	1058.44	16.058	1049.6	19.7999	1049.6	19.7999	101.253
WELL-22	16689.9	1.47768	17.088	0.98817	0.59962	1.25138	0.07598	0.66492	0.53135	472.073	3.02672	476.995	4.76303	500.723	23.3427	472.073	3.02672	94.2781
WELL-22	237242	1.98072	11.4291	0.48194	2.74904	0.8298	0.22955	0.6755	0.81405	1332.12	8.12955	1341.83	6.1783	1357.33	9.29159	1357.33	9.29159	98.1427
WELL-22	19989.9	2.54213	5.2402	0.42466	13.9832	1.06737	0.53665	0.9784	0.91664	2769.43	22.0269	2748.57	10.1149	2733.28	7.02	2733.28	7.02	101.322
WELL-22	25059.9	2.68791	4.98665	0.66425	14.8266	0.89997	0.54107	0.60721	0.6747	2787.91	13.7432	2804.18	8.56098	2815.89	10.8531	2815.89	10.8531	99.0065
WELL-22	131452	1.18242	9.83855	0.55877	4.1521	0.93664	0.29856	0.7517	0.80255	1684.15	11.1412	1664.62	7.6647	1640.06	10.3736	1640.06	10.3736	102.689
WELL-22	53528.8	0.80188	5.34344	0.36944	13.2801	0.71415	0.51871	0.61105	0.85563	2693.71	13.4538	2699.77	6.74364	2704.29	6.10143	2704.29	6.10143	99.6088
WELL-22	55870.7	2.44894	11.1272	0.55442	2.99359	0.70175	0.24388	0.42805	0.60998	1406.81	5.41013	1405.99	5.34131	1404.73	10.6503	1404.73	10.6503	100.148
WELL-22	24087.9	1.79657	12.4886	0.49638	2.22704	0.83229	0.20456	0.66526	0.79932	1199.76	7.28287	1189.59	5.83219	1171.16	9.91839	1171.16	9.91839	102.442
WELL-22	4963815	2.22594	11.7303	0.45499	2.50092	1.50981	0.21419	1.43962	0.95351	1251.13	16.3715	1272.3	10.9519	1308.24	8.83255	1308.24	8.83255	95.634
WELL-22	111537	2.08593	9.21736	0.35215	4.58607	0.89007	0.30897	0.81737	0.91833	1735.65	12.4373	1746.74	7.41983	1760.03	6.44198	1760.03	6.44198	98.6148
WELL-22	19035	1.91884	17.9121	0.80198	0.49282	1.07102	0.06535	0.69663	0.65043	408.059	2.75455	406.833	3.59015	399.86	18.2283	408.059	2.75455	102.05
WELL-22	9.1E+07	2.65853	12.1762	0.59271	2.3626	1.50161	0.21007	1.37968	0.9188	1229.17	15.4399	1231.37	10.7131	1235.24	11.6433	1235.24	11.6433	99.5087
WELL-22	271102	0.83967	17.8475	0.91898	0.46284	1.0938	0.06038	0.59318	0.54231	377.919	2.1773	386.228	3.51399	436.293	20.4825	377.919	2.1773	86.6205
WELL-22	29456.9	3.24356	13.1632	0.59547	1.8878	1.06441	0.18261	0.88154	0.8282	1081.23	8.77502	1076.81	7.06534	1067.88	11.9795	1067.88	11.9795	101.251
WELL-22	26537.7	2.93961	10.3324	0.5362	3.32045	0.77888	0.25188	0.55715	0.71532	1448.16	7.22639	1485.87	6.0782	1540.1	10.2367	1540.1	10.2367	94.0307
WELL-22	12980.9	2.02146	11.3071	0.62502	2.91124	1.07798	0.2434	0.86072	0.79846	1404.34	10.8615	1384.84	8.14732	1354.88	12.5161	1354.88	12.5161	103.651
WELL-22	32900.5	1.38277	9.86849	0.49526	3.88384	0.87845	0.28106	0.72281	0.82283	1596.67	10.2227	1610.33	7.09335	1628.21	9.28005	1628.21	9.28005	98.0632
WELL-22	26157.1	1.809	5.60882	0.47841	12.0679	0.77478	0.4956	0.6091	0.78616	2594.85	13.0114	2609.7	7.26512	2621.23	7.96632	2621.23	7.96632	98.9935
WELL-22	421681	2.61063	4.77437	0.42802	15.4704	0.70506	0.53946	0.56027	0.79465	2781.21	12.6564	2844.66	6.72447	2889.91	6.94754	2889.91	6.94754	96.2384
WELL-22	91926.4	2.09275	10.818	0.41288	2.96546	0.96973	0.23474	0.87727	0.90465	1359.29	10.7513	1398.81	7.36358	1459.57	7.85625	1459.57	7.85625	93.1298
WELL-22	33822.8	1.35804	4.88778	0.44735	15.0681	0.71093	0.53902	0.55178	0.77615	2779.35	12.458	2819.55	6.76947	2848.41	7.30299	2848.41	7.30299	97.5758
WELL-22	11133.1	2.83111	13.5968	1.00165	1.67668	1.34634	0.16952	0.60733	0.45109	1009.45	5.6748	999.724	8.56348	978.429	24.4842	978.429	24.4842	103.171
WELL-22	89935.9	3.78823	12.6034	0.51294	2.12454	1.06463	0.19603	0.93279	0.87617	1153.94	9.8555	1156.81	7.35045	1162.17	10.1903	1162.17	10.1903	99.2916
WELL-22	87337.7	2.73664	12.6878	0.3653	1.97903	0.74542	0.18384	0.64937	0.87115	1087.91	6.5006	1108.39	5.02816	1148.81	7.26929	1148.81	7.26929	94.6987
WELL-22	13153.5	1.87686	10.9923	0.46528	3.08615	0.81459	0.25081	0.56813	0.69744	1442.63	7.34363	1429.26	6.24706	1409.39	11.1734	1409.39	11.1734	102.358
WELL-22	31943.1	3.82473	10.9633	0.47528	3.15131	0.87849	0.25366	0.73068	0.83174	1457.34	9.53062	1445.32	6.77139	1427.66	9.31151	1427.66	9.31151	102.079
WELL-22	21559.7	1.12984	9.49213	0.5755	4.35961	0.8561	0.30421	0.62134	0.72578	1712.16	9.34282	1704.72	7.07095	1695.57	10.8544	1695.57	10.8544	100.979
WELL-22	221201	4.32238	13.6927	0.54171	1.67562	0.78276	0.1678	0.56504	0.72185	999.983	5.23386	999.32	4.97755	997.844	10.9935	997.844	10.9935	100.214
WELL-22	36308.6	1.51497	12.6468	1.9339	1.95601	2.1079	0.18165	0.83491	0.39609	1076	8.27392	1100.51	14.1636	1149.29	38.4582	1149.29	38.4582	93.6234
WELL-22	332016	3.13304	12.5267	0.49475	2.12344	0.83985	0.19449	0.67865	0.80806	1145.67	7.1234	1156.46	5.79754	1176.73	9.80531	1176.73	9.80531	97.3608
WELL-22	16449.9	1.46709	16.2798	0.63026	0.83959	0.97587	0.1013	0.63983	0.65565	622.007	3.7938	618.919	4.5224	607.62	15.9324	622.007	3.7938	102.368
WELL-22	303420	3.95631	8.89682	0.40714	5.10948	0.66059	0.3322	0.5202	0.78749	1849.04	8.36227	1837.68	5.60966	1824.82	7.38551	1824.82	7.38551	101.327
WELL-22	45682.4	1.99487	10.6639	0.50825	3.304	0.78117	0.25822	0.59188	0.75768	1480.71	7.83028	1482	6.08905	1483.83	9.6604	1483.83	9.6604	99.7897
WELL-22	12651.3	3.3277	5.31241	0.7804	12.8407	1.05427	0.50084	0.68763	0.65224	2617.4	14.7924	2668.03	9.93172	2706.62	13.1888	2706.62	13.1888	96.7037
WELL-22	38320.4	1.90274	10.6207	0.50798	3.3033	0.8621	0.25727	0.69253	0.8033	1475.87	9.13521	1481.83	6.71958	1490.36	9.72067	1490.36	9.72067	99.0273
WELL-22	30385.6	2.69341	9.3746	0.48552	4.45084	0.84117	0.30628	0.68504	0.81439	1722.38	10.3543	1721.86	6.97429	1721.2	8.96927	1721.2	8.96927	100.068
WELL-22	36866.7	0.87104	17.6744	1.14807	0.55238	1.36195	0.07187	0.73106	0.53678	447.382	3.15972	446.552	4.92075	442.259	25.573	447.382	3.15972	101.158
WELL-22	38334.5	0.95883	5.40379	1.05973	12.991	1.80985	0.51401	1.46713	0.81063	2673.73	32.1095	2679	17.065	2682.96	17.5255	2682.96	17.5255	99.656
WELL-22	40524.2	3.54383	8.3544	0.41289	5.83194	0.66266	0.35713	0.51693	0.78009	1968.54	8.7691	1951.17	5.74372	1932.77	7.42207	1932.77	7.42207	101.851
WELL-22	14863.1	1.82761	10.7636	0.69514	3.24742	0.9319	0.2581	0.60683	0.65118	1480.09	8.02513	1468.56	7.23465	1451.9	13.459	1451.9	13.459	101.942
WELL-22	11566.6	1.91876	16.9301	0.72118	0.62892	1.04557	0.07955	0.64738	0.61917	493.432	3.0752	495.422	4.09901	504.632	18.0648	493.432	3.0752	97.7806
WELL-22	63735	2.51087	9.20659	0.38453	3.99448	1.20513	0.26944	1.14194	0.94756	1537.97	15.6249	1633.08	9.78699	1757.8	7.04393	1757.8	7.04393	87.494
WELL-22	41874	2.60379	12.2672	0.43347	2.13426	0.72619	0.19224	0.58199	0.80142	1133.49	6.04937	1159.97	5.02109	1209.76	8.55924	1209.76	8.55924	93.696
WELL-22	52194.9	2.3042	11.3117	0.65645	2.81284	0.8876	0.23337	0.59651	0.67204	1352.13	7.27586	1358.96	6.64893	1369.71	12.6502	1369.71	12.6502	98.7166
WELL-22	49901.9	1.05764	5.73487	0.63952	11.554	0.97576	0.4852	0.73696	0.75527	2549.87	15.5202	2568.96	9.11874	2584.04	10.678	2584.04	10.678	98.6775
WELL-22	31788.9	2.75487	13.6672	0.43057	1.69284	0.812	0.17038	0.68794	0.84722	1014.18	6.45582	1005.83	5.18316	987.666	8.77767	987.666	8.77767	102.685

WELL-22	61603.8	2.86496	8.82391	0.35969	5.0406	0.58091	0.32616	0.45557	0.78424	1819.74	7.22288	1826.17	4.92204	1833.49	6.53133	1833.49	6.53133	99.2502
WELL-22	16590.2	1.79916	10.2949	0.72753	3.58211	1.01494	0.27224	0.68947	0.67932	1552.14	9.51066	1545.58	8.05666	1536.6	14.0147	1536.6	14.0147	101.011
WELL-22	76135.6	1.08791	10.2099	0.40475	3.44417	0.63282	0.25784	0.48619	0.76829	1478.81	6.42473	1514.54	4.97976	1564.84	7.59365	1564.84	7.59365	94.5018
WELL-22	35267.7	2.19237	10.5359	0.61737	3.37929	0.97421	0.26167	0.75033	0.77019	1498.36	10.0316	1499.61	7.63329	1501.36	11.7466	1501.36	11.7466	99.8003
WELL-22	10070.3	1.60239	17.5351	0.83639	0.53934	1.12898	0.07103	0.6953	0.61586	442.372	2.97264	437.99	4.01649	415	19.8774	442.372	2.97264	106.596
WELL-22	30321.8	2.06594	12.6514	0.45202	2.10723	0.97672	0.19631	0.86049	0.881	1155.48	9.10261	1151.17	6.72579	1143.1	9.16648	1143.1	9.16648	101.083
WELL-22	11270.9	1.73675	12.0096	0.91254	2.34247	1.36181	0.20907	0.91858	0.67452	1223.85	10.2393	1225.27	9.69098	1227.8	19.7276	1227.8	19.7276	99.6787
WELL-22	68471.1	5.6604	8.48489	0.36925	4.56538	0.75733	0.28404	0.66096	0.87275	1611.66	9.42516	1742.97	6.30812	1904.33	6.64234	1904.33	6.64234	84.6313
WELL-22	543600	4.08667	12.4009	0.58291	2.23744	0.83654	0.20318	0.60001	0.71725	1192.36	6.53162	1192.86	5.87047	1193.74	11.5009	1193.74	11.5009	99.8839
WELL-22	17625.2	2.54815	12.6525	0.76075	2.09402	1.08116	0.19595	0.70262	0.64987	1153.51	7.42101	1146.85	7.42997	1134.29	16.3369	1134.29	16.3369	101.695
WELL-22	61198.5	2.13502	11.0339	0.52861	3.0812	0.97331	0.24951	0.81655	0.83894	1435.95	10.5112	1428.03	7.46144	1416.21	10.1291	1416.21	10.1291	101.394
WELL-22	38440.4	1.98035	17.5371	0.88109	0.5241	1.05768	0.06773	0.57792	0.5464	422.491	2.36337	427.883	3.69305	457.054	19.6521	422.491	2.36337	92.4379
WELL-22	21490.4	1.54291	17.2168	0.47732	0.65132	0.95333	0.08306	0.82487	0.86525	514.345	4.07783	509.288	3.81802	486.649	10.5456	514.345	4.07783	105.691
WELL-22	29715.1	1.14845	9.71503	1.07657	3.81392	1.95908	0.27247	1.6367	0.83544	1553.32	22.5922	1595.69	15.7612	1652.09	19.9556	1652.09	19.9556	94.0214
WELL-22	218356	1.35015	13.0137	0.42084	1.97158	0.69266	0.18799	0.55015	0.79426	1110.47	5.61203	1105.85	4.66639	1096.78	8.42979	1096.78	8.42979	101.248
WELL-22	214087	5.14222	12.6638	0.7226	2.10678	0.95359	0.19548	0.62224	0.65252	1150.97	6.55884	1151.03	6.56607	1151.1	14.3385	1151.1	14.3385	99.9887
WELL-22	27993.9	2.331	11.3808	0.47441	2.77628	0.88428	0.23263	0.73846	0.8351	1348.25	8.98409	1349.18	6.60121	1350.64	9.38528	1350.64	9.38528	99.8232
WELL-22	457658	2.31802	17.8121	0.61456	0.4795	0.91232	0.06256	0.67427	0.73907	391.177	2.55916	397.729	3.00229	435.96	13.6844	391.177	2.55916	89.7277
WELL-22	16765.2	2.0219	17.7349	1.12451	0.52976	1.42592	0.06979	0.85067	0.59658	434.92	3.57771	431.649	5.01399	414.205	25.5777	434.92	3.57771	105.001
WELL-22	4214.82	3.06437	11.312	1.44708	1.26111	3.17391	0.10843	2.78003	0.8759	663.605	17.5307	828.407	17.9763	1300.76	29.7459	1300.76	29.7459	51.0169
WELL-22	93544.9	4.21312	10.1391	0.63665	3.40989	1.52081	0.25326	1.38107	0.90811	1455.25	17.991	1506.68	11.9409	1579.73	11.9131	1579.73	11.9131	92.12
WELL-22	114065	3.30297	13.8368	0.56355	1.59244	0.83213	0.16144	0.61208	0.73556	964.798	5.48464	967.252	5.19012	972.834	11.4772	972.834	11.4772	99.174
WELL-22	574752	3.87427	10.8464	0.44835	3.20519	0.84388	0.25433	0.71492	0.84718	1460.77	9.34461	1458.41	6.53105	1454.96	8.52874	1454.96	8.52874	100.399
WELL-22	36835.5	5.63188	5.95499	0.58911	9.98731	1.0381	0.43587	0.85468	0.82331	2332.11	16.7248	2433.61	9.58165	2519.58	9.90065	2519.58	9.90065	92.5595
WELL-22	12452	1.18653	17.8623	0.6785	0.47597	1.00137	0.06351	0.62605	0.62519	396.938	2.41006	395.303	3.2789	385.733	17.5555	396.938	2.41006	102.905
WELL-22	26466.2	2.07397	10.4132	0.59323	3.41238	0.9485	0.26131	0.73292	0.77272	1496.54	9.78835	1507.25	7.44833	1522.31	11.3485	1522.31	11.3485	98.3071
WELL-22	17836.9	1.43968	14.5779	0.84464	1.34653	1.16572	0.14527	0.79345	0.68066	874.386	6.48789	866.058	6.79234	844.82	17.7835	874.386	6.48789	103.5
WELL-22	66308.7	2.85743	13.554	0.49976	1.70783	0.83065	0.16974	0.66315	0.79835	1010.68	6.20338	1011.47	5.31958	1013.17	10.1376	1013.17	10.1376	99.7547
WELL-22	31861.8	1.9448	9.92539	0.49365	3.98223	3.15089	0.29023	3.1108	0.98728	1642.68	45.1101	1630.58	25.5775	1614.99	9.32953	1614.99	9.32953	101.715
WELL-22	43589	2.62476	11.2033	0.34376	2.87217	0.662	0.23612	0.56562	0.85441	1366.48	6.96487	1374.64	4.98597	1387.33	6.6035	1387.33	6.6035	98.4965
WELL-22	466620	0.96615	10.3114	0.52266	3.4518	0.89784	0.26032	0.73003	0.8131	1491.46	9.72034	1516.28	7.06879	1551.08	9.81573	1551.08	9.81573	96.1563
WELL-22	17357	1.95402	11.597	1.29777	2.58186	1.76124	0.22099	1.16785	0.66309	1287.1	13.626	1295.51	12.8913	1309.45	25.5877	1309.45	25.5877	98.2937
WELL-22	35993.8	1.22943	9.10376	0.36694	4.81915	0.73672	0.32167	0.63723	0.86495	1797.9	9.99777	1788.25	6.19508	1776.99	6.74442	1776.99	6.74442	101.177
WELL-22	22509.6	1.25966	10.916	0.7405	3.18153	0.97538	0.25549	0.63323	0.64921	1466.71	8.30681	1452.69	7.53554	1432.2	14.156	1432.2	14.156	102.41
WELL-22	10111.7	2.02729	11.5949	0.74205	2.59922	1.00217	0.22381	0.64185	0.64046	1301.98	7.56691	1300.42	7.34875	1297.82	14.9614	1297.82	14.9614	100.321
WELL-22	125003	2.55874	13.3936	0.59435	1.73729	0.80527	0.17028	0.54325	0.67462	1013.66	5.09558	1022.46	5.18951	1041.33	12.016	1041.33	12.016	97.3431
WELL-22	2589990	0.50454	15.8655	0.544	0.8968	0.84556	0.10408	0.64733	0.76557	638.294	3.93391	650.016	4.0593	690.956	11.6131	638.294	3.93391	92.3785
WELL-22	35988.2	1.03758	11.1177	0.51332	2.72075	0.92607	0.22221	0.76524	0.82633	1293.56	8.96894	1334.14	6.87605	1399.85	9.99537	1399.85	9.99537	92.4066
WELL-22	33817.5	0.96928	17.1199	0.68038	0.6311	0.97755	0.07962	0.694	0.70993	493.827	3.29916	496.783	3.84053	510.409	15.1441	493.827	3.29916	96.7512
WELL-22	33579.3	3.88612	9.15921	0.43806	4.56815	0.82593	0.30719	0.70013	0.84769	1726.85	10.6062	1743.48	6.88031	1763.46	8.0083	1763.46	8.0083	97.9236
WELL-22	109831	1.89148	10.7591	0.451	3.24874	0.72607	0.25602	0.56893	0.78358	1469.44	7.47575	1468.88	5.63726	1468.04	8.56601	1468.04	8.56601	100.096
WELL-22	50012.7	1.3227	17.6514	0.75886	0.54267	0.93113	0.07039	0.53637	0.57604	438.497	2.27374	440.187	3.32588	449.008	16.9083	438.497	2.27374	97.6591
WELL-22	48571.1	0.93988	9.72652	0.53185	4.10096	0.97036	0.2924	0.8104	0.83515	1653.53	11.8196	1654.5	7.92148	1655.71	9.88655	1655.71	9.88655	99.8686
WELL-22	25148.9	1.46482	9.50715	0.46437	4.50135	0.79186	0.31447	0.63067	0.79644	1762.68	9.72639	1731.22	6.57896	1693.39	8.82934	1693.39	8.82934	104.092
WELL-22	31707.8	1.90509	12.773	0.52946	1.92212	1.18912	0.18051	1.06391	0.8947	1069.76	10.4871	1088.81	7.94228	1127.1	10.5828	1127.1	10.5828	94.9126
WELL-22	12111.6	0.98359	9.76535	0.53688	4.0597	0.89625	0.2931	0.70298	0.78436	1657	10.2718	1646.25	7.30194	1632.53	10.331	1632.53	10.331	101.499
WELL-22	202719	2.91233	11.3866	0.71131	2.78928	1.07351	0.23235	0.80402	0.74896	1346.82	9.77232	1352.67	8.02379	1361.91	13.7047	1361.91	13.7047	98.8922
WELL-22	34482.5	1.94401	16.1034	0.65691	0.88689	0.94397	0.10498	0.6686	0.70828	643.538	4.0949	644.695	4.50519	648.751	14.3107	643.538	4.0949	99.1965
WELL-22	38666.6	2.73798	11.2464	0.73362	2.91441	2.70473	0.24028	2.60328	0.96249	1388.16	32.5118	1385.66	20.4501	1381.79	14.0986	1381.79	14.0986	100.461
WELL-22	6828.79	1.80333	17.1334	0.95825	0.55746	1.50384	0.0724	0.66888	0.44478	450.619	2.91116	449.874	5.46554	446.046	29.9441	450.619	2.91116	101.025
WELL-22	122639	1.5606	13.6634	0.5943	1.71739	0.94174	0.17166	0.73047	0.77566	1021.23	6.89891	1015.05	6.04342	1001.72	12.0536	1001.72	12.0536	101.948
WELL-22	18397.1	1.40953	10.5137	0.66305	3.41498	1.00755	0.26424	0.71588	0.71052	1511.49	9.6455	1507.85	7.9134	1502.72	13.4007	1502.72	13.4007	100.583
WELL-22	7595.04	1.48988	12.9466	0.95177	1.90597	1.24243	0.1847	0.75128	0.60469	1092.62	7.55072	1083.18	8.2744	1064.25	19.8829	1064.25	19.8829	102.666
WELL-22	49269	1.58747	3.42355	0.36579	21.4165	0.69206	0.53594	0.58736	0.84871	2766.41	13.2118	3157.64	6.71367	3416.66	5.69303	3416.66	5.69303	80.9684
WELL-22	94533.5	3.30859	9.92058	0.37274	3.85039	0.72676	0.27931	0.62377	0.85829	1587.87	8.77905	1603.35	5.85805	1623.73	6.93654	1623.73	6.93654	97.7911
WELL-22	44008.9	2.55766	10.7996	0.51997	3.25263	0.87667	0.25736	0.70461	0.80374	1476.3	9.29709	1469.81	6.80849	1460.41	9.91491	1460.41	9.91491	101.088
WELL-22	48696.6	7.05763	5.41652	0.32786	13.5226	2.37805	0.53552	2.35529	0.99043	2764.65	52.953	2716.87	22.4873	2681.52	5.42923	2681.52	5.42923	103.1
WELL-22	1.9E+07	2.79789	5.46626	0.40538	12.2837	0.81615	0.49015	0.70835	0.86792	2571.33	15.02	2626.33	7.66334	2668.98	6.71375	2668.98	6.71375	96.3411
WELL-22	68615.2	3.90885	10.2331	0.39739	3.59737	0.821	0.26931	0.71809	0.87466	1537.29	9.82159	1548.95	6.52308	1564.88	7.46044	1564.88	7.46044	98.2373
WELL-22	140048	3.68827	12.8511	0.64281	2.0123	0.90056	0.18904	0.63068	0.70032	1116.19	6.46389	1119.67	6.10862	1126.4	12.8104	1126.4	12.8104	99.0939
WELL-22	54103.4	2.0459	12.8936	0.47085	2.03927	0.73943	0.19261	0.56903	0.76956	1135.51	5.92432	1128.72	5.03773	1115.69	9.4244	1115.69	9.4244	101.776
WELL-22	59773.4	4.45179	17.2728	1.11181	0.61805	1.27029	0.07831	0.61416	0.48348	486.014	2.87516	488.626	4.92686	500.908	24.5046	486.014	2.87516	97.0267
WELL-22	15074.1	1.51947	17.297	0.56667	0.60054	0.92425	0.07716	0.71078	0.76904	479.171	3.28235	477.579	3.52124	469.961	13.0771	479.171	3.28235	101.96
WELL-22	34206.7	14.724	12.4355	0.44689	2.06305	0.65219	0.18837	0.47435	0.72732	1112.55	4.84707	1136.63	4.46027	1182.93	8.84566	1182.93	8.84566	94.0502
WELL-22	44133.2	1.14272	9.88672	0.47554	3.71331	0.90883	0.26901	0.77441	0.8521	1535.75	10.5825	1574.24	7.27033	1626.2	8.84451	1626.2	8.84451	94.4381
WELL-22	355312	1.72541	17.3465	0.80253	0.59679	1.13851	0.07567	0.80755	0.70931	470.253	3.66234	475.193	4.32057	499.134	17.6544	470.253	3.66234	94.2139
WELL-22	80600.4	2.33462	13.3805	0.85835	1.78604	1.10994	0.17508	0.70342	0.63374	1040.06	6.7563	1040.38	7.22507	1041.04	17.3478	1041.04	17.3478	99.9064
WELL-22	19722.9	2.91725	12.9278	0.60504	1.94511	0.98372	0.18551	0.7462	0.75855	1097.03	7.52737	1096.76	6.59702	1096.24	12.8234	1096.24	12.8234	100.072
WELL-22	10833	2.4003	5.00122	0.60911	14.0187	1.29911	0.51552	1.14725	0.8831	2680.16	25.1572	2750.97	12.3132	2803.35	9.96997	2803.35	9.96997	95.6058
WELL-22	33636.4	3.0697	12.3238	0.56609	2.24489	0.91168	0.20336	0.70432	0.77256	1193.36	7.67299	1195.19	6.4043	1198.5	11.3992	1198.5	11.3992	99.571
WELL-22	38631.3	2.2165	12.9491	0.70628	2.04706	0.99889	0.19477	0.70581	0.70659	1147.16	7.41728	1131.32	6.81404	1101.02	14.1383	1101.02	14.1383	104.191
WELL-22	90533.9	153.061	13.8551	0.56857	1.60668	0.84376	0.16312	0.62327	0.73869	974.096	5.63482	972.816	5.28072	969.907	11.6036	969.907	11.6036	100.432
WELL-22	41927.6	2.32523	5.31862	0.37195	12.9176	0.76088	0.50311	0.66332	0.87178	2627.15	14.3125	2673.66	7.17081	2709.01	6.15014	2709.01	6.15014	96.9784
WELL-22	1412673	1.95766	13.1989	0.71246	1.81094	0.95548	0.17487	0.63667	0.66634	1038.89	6.10884	1049.42	6.25044	1071.42	14.3148	1071.42	14.3148	96.963
WELL-22	34776.9	2.97347	10.9211	0.60298	3.16772	1.26986	0.25417	1.11698	0.87961	1459.96	14.5927	1449.33	9.80049	1433.75	11.524	1433.75	11.524	101.828
WELL-22	2165.15	1.6914	17.5698	1.62675	0.49917	1.81353	0.07282	0.73243	0.40387	453.121	3.20485	411.137	6.13132	181.703	38.6593	453.121	3.20485	249.375
WELL-22	1802090	2.25004	16.7587	0.55413	0.72892	0.83883	0.08934	0.62974	0.75074	551.654	3.3295	555.919	3.59096	573.441	12.0716	551.654	3.3295	96.2006
WELL-22	16431.7	2.02188	17.6159	0.72565	0.51426	1.21029	0.0673	0.87914	0.72639	419.875	3.57366	421.308	4.17352	429.14	18.5431	419.875	3.57366	97.841
WELL-22	56649.5	2.96595	11.1774	0.72218	2.8803	0.96142	0.23609	0.6345	0.65997	1366.34	7.81231	1376.77	7.24637	1392.97	13.856	1392.97	13.856	98.0883
WELL-22	41472	5.25464	13.4403	0.40395	1.76769	1.06199	0.17455	0.98184	0.92453	1037.14	9.40611	1033.67	6.88724	1026.34	8.18588	1026.34	8.18588	101.052
WELL-22	212092	2.24243	11.7767	0.55993	2.46385	0.94382	0.21227	0.75978	0.805	1240.91	8.57629	1261.49	6.81681	1296.74	10.8876	1296.74	10.8876	95.6946
WELL-22	18978.6	1.7082	11.4521	0.65767	2.69417	1.05429	0.22746	0.81859	0.77644	1321.18	9.77882	1326.86	7.80742	1336.02	12.8473	1336.02	12.8473	98.8889
WELL-22	36496.1	2.99725	8.69966	0.58323	5.42546	0.8312	0.34619	0.5921	0.71235	1916.37	9.81571	1888.88	7.12646	1858.79	10.5367	1858.79	10.5367	103.098
WELL-22	18266.4	1.86448	12.0645	0.56849	2.41358	0.85104	0.21488	0.63197	0.74258	1254.78	7.20579	1246.65	6.10997	1232.64	11.2024	1232.64	11.2024	101.796
WELL-22	19689.8	1.26013	15.2251	0.61154	0.88541	0.93162	0.09967	0.69902	0.75032	612.446	4.08403	643.902	4.44232	755.82	12.9965	612.446	4.08403	81.0307
WELL-22	44785.5	1.05271	17.7894	0.57144	0.53364	1.09682	0.0698	0.93277	0.85043	434.941	3.92314	434.219	3.87516	430.372	12.8609	434.941	3.92314	101.062
WELL-22	36144.5	3.13689	13.3667	0.78859	1.69065	1.06971	0.16608	0.72137	0.67437	990.472	6.62318	1005.01	6.82492	1036.83	15.9705	1036.83	15.9705	95.5289
WELL-22	12686.9	1.53081	13.2838	0.88641	1.84474	1.15971	0.18192	0.70665	0.60933	1077.46	7.01164	1061.56	7.63627	1028.98	18.6118	1028.98	18.6118	104.712
WELL-22	27616.4	1.45212	13.5658	0.83176	1.76998	1.042	0.17684	0.62696	0.60169	1049.68	6.07315	1034.51	6.76074	1002.58	16.8806	1002.58	16.8806	104.698
WELL-22	23241.2	1.73479	9.70782	0.49142	3.83584	1.15558	0.2739	1.04491	0.90424	1560.57	14.4829	1600.3	9.30742	1653	9.14572	1653	9.14572	94.4082
WELL-22	118534	1.02127	17.8743	0.54673	0.52324	0.80884	0.06855	0.59591	0.73674	427.407	2.46435	427.313	2.82114	426.779	12.1973	427.407	2.46435	100.147
WELL-22	35736.4	2.37838	10.9758	0.51264	3.04054	1.06895	0.24511	0.93633	0.87593	1413.22	11.8824	1417.86	8.16785	1424.82	9.84974	1424.82	9.84974	99.1852

WELL-22	79033.2	2.42402	12.2552	0.47015	2.24763	0.81802	0.20179	0.66912	0.81797	1184.9	7.24241	1196.05	5.74856	1216.26	9.24415	1216.26	9.24415	97.4223
WELL-22	46431.6	1.22171	13.2213	0.82524	1.83537	1.44557	0.17809	1.18668	0.82091	1056.55	11.5644	1058.2	9.50157	1061.63	16.6091	1061.63	16.6091	99.5215
WELL-22	165204	1.47587	13.3524	0.98859	1.83783	1.27589	0.17958	0.80658	0.63217	1064.68	7.91579	1059.08	8.39017	1047.6	19.9524	1047.6	19.9524	101.63
WELL-22	41898.8	16.1362	11.7888	0.47247	2.48068	0.86083	0.21461	0.71804	0.83412	1253.34	8.17863	1266.41	6.22962	1288.67	9.24317	1288.67	9.24317	97.2582
WELL-22	6255.91	1.66445	17.8147	1.00662	0.49615	1.27796	0.06741	0.70207	0.54937	420.539	2.85825	409.095	4.30319	344.987	24.1374	420.539	2.85825	121.9
WELL-22	14349.6	2.57173	16.8003	2.21631	0.51731	3.44641	0.06466	2.63902	0.76573	403.883	10.3316	423.356	11.9315	530.851	48.5431	403.883	10.3316	76.0823
WELL-22	89470.8	1.9217	10.7657	0.42498	3.1651	1.06392	0.2496	0.97524	0.91665	1436.44	12.5577	1448.69	8.20937	1466.69	8.0765	1466.69	8.0765	97.9375
WELL-22	39126.3	1.17074	10.6505	0.55588	3.42659	0.87699	0.2679	0.67445	0.76905	1530.12	9.18648	1510.51	6.89324	1483.12	10.623	1483.12	10.623	103.169
WELL-22	79027.1	3.12164	11.3529	0.46378	2.83769	0.75186	0.23603	0.59131	0.78645	1366.03	7.27896	1365.56	5.64506	1364.81	8.94407	1364.81	8.94407	100.089
WELL-22	38052.4	4.01429	13.4039	0.56728	1.77395	1.03656	0.17473	0.86619	0.83563	1038.14	8.30554	1035.97	6.73091	1031.36	11.5269	1031.36	11.5269	100.658
WELL-22	100226	1.86077	17.2311	0.7336	0.58385	0.99746	0.07374	0.6757	0.67742	458.668	2.99153	466.931	3.73348	507.789	16.1229	458.668	2.99153	90.3265
WELL-22	195647	1.99313	8.44319	0.39779	5.59442	0.64524	0.34557	0.50803	0.78734	1913.41	8.41074	1915.24	5.55819	1917.2	7.13623	1917.2	7.13623	99.8023
WELL-22	35421	0.78148	5.71253	0.53833	11.5639	0.88203	0.48397	0.69829	0.79168	2544.54	14.6807	2569.76	8.24335	2589.71	8.98922	2589.71	8.98922	98.2556
WELL-22	19890	2.04464	10.0094	0.53594	3.50275	0.90723	0.25805	0.73154	0.80635	1479.87	9.67314	1527.83	7.16612	1594.88	10.0194	1594.88	10.0194	92.7886
WELL-22	4986.55	1.88439	17.3658	1.48568	0.54021	2.2453	0.07224	1.67333	0.74526	449.627	7.26737	438.565	7.99645	380.887	33.6581	449.627	7.26737	118.047
WELL-22	13288.8	0.54594	16.2001	1.13557	0.82036	1.43894	0.09888	0.87467	0.60785	607.859	5.07376	608.248	6.58453	609.678	24.6985	607.859	5.07376	99.7016
WELL-22	177178	1.26181	9.89386	0.47936	3.94861	0.73568	0.28577	0.55806	0.75856	1620.35	7.99556	1623.71	5.96052	1628.04	8.9114	1628.04	8.9114	99.5279
WELL-22	60683	2.66761	12.1666	0.65049	2.33183	0.94046	0.20784	0.67871	0.72168	1217.32	7.52889	1222.03	6.6833	1230.39	12.7945	1230.39	12.7945	98.9379
WELL-22	370530	1.59577	13.4166	0.73907	1.81735	0.95068	0.17822	0.59797	0.62899	1057.23	5.8307	1051.73	6.22682	1040.31	14.9369	1040.31	14.9369	101.626
WELL-22	541254	2.44417	10.835	0.46995	3.16281	0.8766	0.25042	0.73998	0.84415	1440.63	9.55326	1448.13	6.76276	1459.13	8.93452	1459.13	8.93452	98.7325
WELL-22	30896.1	2.48138	11.2937	0.53022	2.80663	0.90879	0.23275	0.73247	0.80598	1348.89	8.91496	1357.31	6.8037	1370.57	10.3526	1370.57	10.3526	98.4179
WELL-22	58168.9	2.37292	11.2793	0.59826	2.83876	1.10554	0.23455	0.92914	0.84044	1358.29	11.3795	1365.84	8.30141	1377.66	11.5165	1377.66	11.5165	98.5942
WELL-22	34591.5	1.6891	9.84545	0.54717	4.07439	0.91294	0.29438	0.73071	0.8004	1663.4	10.7132	1649.19	7.44314	1631.11	10.1699	1631.11	10.1699	101.98