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Sea turtle populations are overestimated worldwide from remigration intervals: correction for bias

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ABSTRACT: Estimating population abundance is key for species of conservation concern. This is particularly challenging for marine animals, like sea turtles, with ocean-scale distribution and migratory nature. However, sea turtles lay clutches on land where they can be easily counted; thus, clutch number has always been the most common index of population abundance. A female typically lays >1 clutch per year and does not reproduce every year. Therefore, 2 conversion factors are needed to convert the number of egg clutches to the number of adult females: the number of clutches laid by a female in a nesting season and the fraction of adult females reproducing in a season, which is linked to the breeding periodicity. The effects of breeding periodicity, probability of detection and annual survival probability on the derived adult female abundance were investigated by simulating a virtual population of adult females over a 15 yr beach monitoring period. The results indicate that current methods may greatly overestimate the abundance of sea turtle populations, especially in situations with a low detection probability, including temporary emigration. The factors involved and ways to minimize biases and errors are discussed, including a method which is easy to implement using existing datasets. A careful reassessment of current estimates of sea turtle abundance derived from nest counts and capture-mark-recapture data would be appropriate, and the potential error associated with such estimates should be considered when they are used in conservation status assessments.

KEY WORDS: Sea turtle · Remigration interval · Abundance · Breeding proportion · Mortality · Detection · Simulation

1. INTRODUCTION

Abundance is one of the most fundamental attributes that describe an animal population. It characterizes the ecological role of the population and possible metapopulation dynamics and helps contextualize other features, such as behavioral traits. Moreover, abundance is particularly crucial to define for species of conservation concern because a low abundance represents an inherent vulnerability to anthropogenic threats and because trends of abundance may highlight conservation problems or conservation successes. For instance, the IUCN Red List categorizes species and populations according to a risk of extinction assessed through several criteria, most of which are based on population abundance (IUCN 2017).

Sea turtles represent one of the taxa subjected to high attention by conservationists because their abundance has been diminished by anthropogenic activities to levels at which they may no longer fulfill their past ecological role (Jackson et al. 2001, Bjorndal & Jackson 2003). Although direct exploitation for

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turtle meat and eggs has been greatly reduced, several other anthropogenic threats are cause for increasing concern, such as incidental capture in fisheries (e.g. Wallace et al. 2013a), habitat destruction (e.g. Brock et al. 2009, Mazaris et al. 2009, Fuentes et al. 2016), pollution (e.g. D'Ilio et al. 2011, Casale et al. 2016, Lauritsen et al. 2017, Wallace et al. 2017) and climate change (e.g. Fuentes et al. 2011).

Estimating population abundance for marine animals is in general challenging, especially for migratory species, like sea turtles, with dispersed ocean-scale distribution. Individuals belonging to the same population may frequent very distant foraging areas (e.g. Luschi et al. 2003, Benson et al. 2007, Ceriani et al. 2017), and a complete knowledge of the range of a population is difficult per se, making it difficult to estimate the abundance of a specific population at sea. However, sea turtles lay egg clutches on land and tend to return to the same breeding area over their lifetime. Therefore, breeding areas of a specific population are much easier to identify. On land, annual clutch counts represent the most common index of sea turtle population trends (e.g. National Marine Fisheries Service & U.S. Fish Wildlife Service 2008, Witherington et al. 2009, Wallace et al. 2013b, Casale & Tucker 2015, Mazaris et al. 2017). However, clutches are only indirectly linked to population abundance because the iteroparous females lay >1 clutch per breeding year, they do not reproduce every year (Miller 1997), adult females represent only a part of the adults, and adults are only a small part of the population. Therefore, conversion factors are needed to convert number of egg clutches to number of turtles. Although 3 conversion factors (clutch frequency, breeding proportion and sex ratio) are needed to estimate the number of adults, this is rarely attempted, for instance for specific criteria of the IUCN Red List Assessments (Wallace et al. 2013b, Casale & Tucker 2015). It is more common to use 1 or 2 conversion factors to estimate the number of adult females nesting annually and the total number of adult females, respectively.

The first conversion factor to estimate the number of females reproducing in 1 season (annual nesting females [ANF]) is the number of clutches laid by a female in a nesting season (also known as clutch frequency). Although apparently easy to obtain, the partial fidelity of females to a nesting site and technical limitations of capture-mark-recapture (CMR) through flipper tagging often underestimated this factor, until satellite tracking (Tucker 2010, Weber et al. 2013, Esteban et al. 2017) and more recently genetic fingerprinting (Shamblin et al. 2017) studies were introduced.

The second conversion factor, required to convert ANF to total females (TF), is the breeding proportion (BP), i.e. the fraction ANF/TF of adult females that reproduce in a season. This parameter is much more problematic to estimate because TF is both what would be needed to calculate BP and the unknown target parameter. The BP is the consequence of iteroparous turtles that do not breed annually, with a longer average remigration interval (RI, the number of years between consecutive breeding seasons) causing a lower BP. Many studies have used observed RI as the reciprocal of BP to estimate adult female abundance (e.g. Spotila et al. 1996, Richardson et al. 1999, Beggs et al. 2007, Richards et al. 2011, Marco et al. 2012, Bellini et al. 2013, Casale & Heppell 2016, Gallaway et al. 2016, Warden et al. 2017) or to model population dynamics (e.g. Chaloupka 2002, 2003, Heppell et al. 2005, Troëng & Chaloupka 2007, Piacenza et al. 2016, 2017). Other studies derived RI and/or BP from transition probabilities between breeding and non-breeding states estimated, among other parameters, through CMR models (e.g. Phillips et al. 2014, García-Cruz et al. 2015, Piacenza et al. 2016), although the conversion equations were not consistent among these studies. Both the direct (observed RI) and modeling approaches need the same CMR data.

Obtaining adequate CMR data is challenging because it requires identifying individual females across nesting seasons, which is commonly attained by flipper tagging (e.g. Broderick et al. 2003, Ehrhart et al. 2014, Hamilton et al. 2015, Garner et al. 2017) with great limitations. For instance, low detection capacity by the monitoring teams can produce longer observed remigration intervals caused by missing encounters. Tracking individual females for several years (e.g. through satellite telemetry) is still technically unfeasible, and the rare positive cases (e.g. Zbinden et al. 2008, Marcovaldi et al. 2010, Hawkes et al. 2011, Ceriani et al. 2012, Mingozzi et al. 2016) are too few to be helpful. CMR based on genetic fingerprinting (Shamblin et al. 2017) could theoretically provide data on RI, but such an approach is feasible only for small populations or at small geographic scales. Mortality is another parameter that can affect the observed RI, and ways to correct such biases have seldom been attempted (e.g. Richards et al. 2011). This study aims to assess how the different parameters involved can affect the estimation of adult female abundance from remigration intervals and to provide indications of how to minimize potential errors.

2. MATERIALS AND METHODS

2.1. Proportion of annual breeding females

Adult female turtles do not breed every year. The relationship between the total number of adult females in a population (TF) and the number of females nesting in a given year (annual nesting females [ANF]) is given by their ratio, or breeding proportion (BP):

$$BP = \frac{ANF}{TF} \quad (1)$$

Therefore, if BP is known, it can be used to convert ANF (observed) to TF (unknown), assuming a stable population:

$$TF = \frac{ANF}{BP} \quad (2)$$

BP can be estimated from capture-mark-recapture histories of females nesting in different years, with the interval between 2 consecutive nesting seasons called the remigration interval (RI). All the following simulations and analyses were performed in R v.3.5.1 (R Development Core Team 2018).

2.2. Simulated breeding female assemblage

To test different ways of estimating BP, we created a virtual assemblage of TF individuals (total adult females) with a given mean remigration interval (M), through the following procedure. We assumed a Poisson distribution of RIs with mean M and calculated the number of cases with RI values ranging from 1 to 10 yr out of a total of 1000 cases. From this sample of 1000 values, a maximum of 25 random values of RI were extracted and used to create the reproductive history of an individual adult female along 25 yr, i.e. in which year she nested. This process was repeated for each of the TF individual turtles of the virtual assemblage. Then the first 10 yr were discarded to remove possible effects of the starting year, and the remaining 15 yr represented the observation window of a virtual capture-mark-recapture program. From this simulation, the 'true' ANF was calculated as the average number of turtles breeding per year. Then, the effects of probability of detection and of annual survival probability on the 'observed' results of a virtual CMR program were simulated as follows.

A probability of detection p was applied to all the breeding events, and each breeding turtle was assigned to an observed/not observed status through a random binomial function. From these simulated breeding observations, the average number of nesting females observed per year (ANF_{obs}) was calculated. Assuming a stable population, the observed probability of detection was calculated as:

$$p_{obs} = \frac{ANF_{obs}}{ANF} \quad (3)$$

A survival probability S^t was calculated for each time a turtle was re-encountered after being observed (and tagged) the first time (where S is the annual survival probability and t is the interval since the first tagging) and converted into a dead/alive status through a random binomial function. If a turtle was marked as dead in 1 yr, it remained in that status for the rest of the years. In other words, although all turtles are subjected to mortality, in a stable population dead turtles are replaced while tagged turtles are not (they are specific individuals that are monitored along the years). For this reason, S is applied only to tagged animals.

In this way, for each turtle, we obtained a simulated CMR history resulting from a combination of M, p and S. In such a formulation, S can be considered to include also tag loss, and p can include temporary emigration (temporary unavailability). Simulations were run with a range of values of M (13 values ranging from 1.6 to 4 yr with interval 0.2), S (7 values ranging from 0.70 to 1.00 with interval 0.05), p (10 values ranging from 0.1 to 1.0 with interval 0.1) and TF (7 values: 25, 50, 100, 150, 200, 250, 1000 turtles).

2.3. BP estimation

BP was estimated through 4 different methods.

The first method ('REM', based on the mean remigration interval) is the most common one and estimates BP as the reciprocal of the average RI:

$$BP = \frac{1}{\overline{RI}} \quad (4)$$

Remigration intervals were obtained from the individual CMR histories, potentially including multiple remigration intervals for each turtle. The average RI was calculated from all RIs (including multiple RIs from the same individual turtle).

The second method ('MSLR') was based on a MultiState Live Recapture model, implemented by the Rmark package for R (R Development Core Team 2018). The model included 2 possible states for any given year: an observable state (breeding) and an unobservable state (not breeding). The model estimates 4 direct parameters: adult female survival rate (S), probability of detection (p), probability of moving from breeding to non-breeding state ($\psi^{B\rightarrow NB}$) and probability of moving from non-breeding to breeding state ($\psi^{NB\rightarrow B}$). All parameters were set as constant across years. Since in a stable population:

$$\text{ANF} = \text{ANF} \times (1 - \psi^{B\rightarrow NB}) + \text{NBF} \times \psi^{NB\rightarrow B} \quad (5)$$

and

$$\text{TF} = \text{ANF} + \text{NBF} \quad (6)$$

where NBF is the number of non-breeding females per year, then:

$$\text{BP} = \frac{\text{ANF}}{\text{TF}} = \frac{\text{ANF}\left(1-\psi^{B\rightarrow NB}\right)+\left(\text{TF}-\text{ANF}\right)\psi^{NB\rightarrow B}}{\text{TF}} = \frac{\psi^{NB\rightarrow B}}{\psi^{B\rightarrow NB}+\psi^{NB\rightarrow B}} \quad (7)$$

The third method ('MSLR p-corr') was a variant of MSLR in which p was fixed to a value equal to p_{obs}. This represents the case when the probability of detection can be estimated from additional data. For instance, an approximate estimation of p (p_{est}) can be obtained as:

$$p_{est} = 1 - (1 - e)^C \quad (8)$$

where C is the number of clutches a female lays in a nesting season (also known as clutch frequency), and e is the probability of observing a nesting event. In other words, the probability of encountering an individual turtle at least 1 time during a nesting season increases with the number of times the turtle comes ashore to lay eggs. In turn, e can be estimated from the total number of clutches laid in a nesting season (C_{tot}) and the number of clutches where the turtle was encountered (C_{obs}):

$$e = \frac{C_{obs}}{C_{tot}} \quad (9)$$

The fourth method ('REM-t', based on the mean remigration interval calculated from a conditionally truncated distribution) assumes that long remigration intervals are an artifact caused by low detection probability and implements the simple approach of removing the presumed artifacts from the dataset. This method is a variant of REM, where a correction was applied in case of a highly right-skewed distribution, which can be an indication of overestimated (artifact) RI values. What to consider a highly right-skewed distribution and where to truncate the distribution are 2 key parameters that were empirically investigated through a series of trials, and we propose the following method. The first (lowest) mode of the frequency distribution of RIs is identified and the number of values of 2 parts of the dataset is calculated: (A) the number of RIs ≤ mode+2 and (B) the number of RIs > mode+2 (B). If B/A ≥ 0.1 (denoting a right-skewed distribution), then the mean RI is calculated only on the A values; otherwise, the mean RI is calculated on the entire dataset.

2.4. Correction for mortality

We simulated the case when an estimated S is available and correction for mortality can be implemented. Two scenarios where simulated, with a correct and with a wrong estimation of S. For the methods MSLR and MSLR p-corr, S was given as a fixed parameter in the model. For the methods REM and REM-t, the observed frequency distribution of remigration intervals (RIobs) was converted into an S-corrected frequency distribution by reconstructing the number of RIs (RIcorr) that would have been observed if the turtle had not died, for each remigration interval i:

$$\text{RIcorr}_i = \frac{\text{RIobs}_i}{S^i} \quad (10)$$

3. RESULTS

A total of 910 simulations of a virtual assemblage of 1000 adult females were performed, with M ranging from 1.6 to 4.0 (n = 13 values), S ranging from 0.70 to 1.00 (n = 7 values) and p ranging from 0.1 to 1.0 (n = 10 values) (see Table S1 in the Supplement at www.int-res.com/articles/suppl/n041p141_supp.pdf). The effects of S and p on the observed remigration intervals (RI) are shown in Fig. 1 with the example of M = 2.6. Low S values reduced the number of long RIs, with the result of underestimating the observed mean RI. On the contrary, low p values increased the number of long RIs, with the result of overestimating the observed mean RI.

When the 4 combinations of realistic low and high values of S (0.70 and 0.95; see a review by Casale et al. 2015) and p (0.1 and 1) are used in simulations with the 13 different values of M considered, the results indicate a stronger effect of p than S on the estimation of the adult female assemblage size by the 2 methods currently used (the reciprocal of RI and CMR models, here represented by REM and MSLR, respectively) and that a low S can only partially compensate for a low p (Fig. 2). In the range of M considered, with S = 0.95 and p = 0.1 the error ranged from

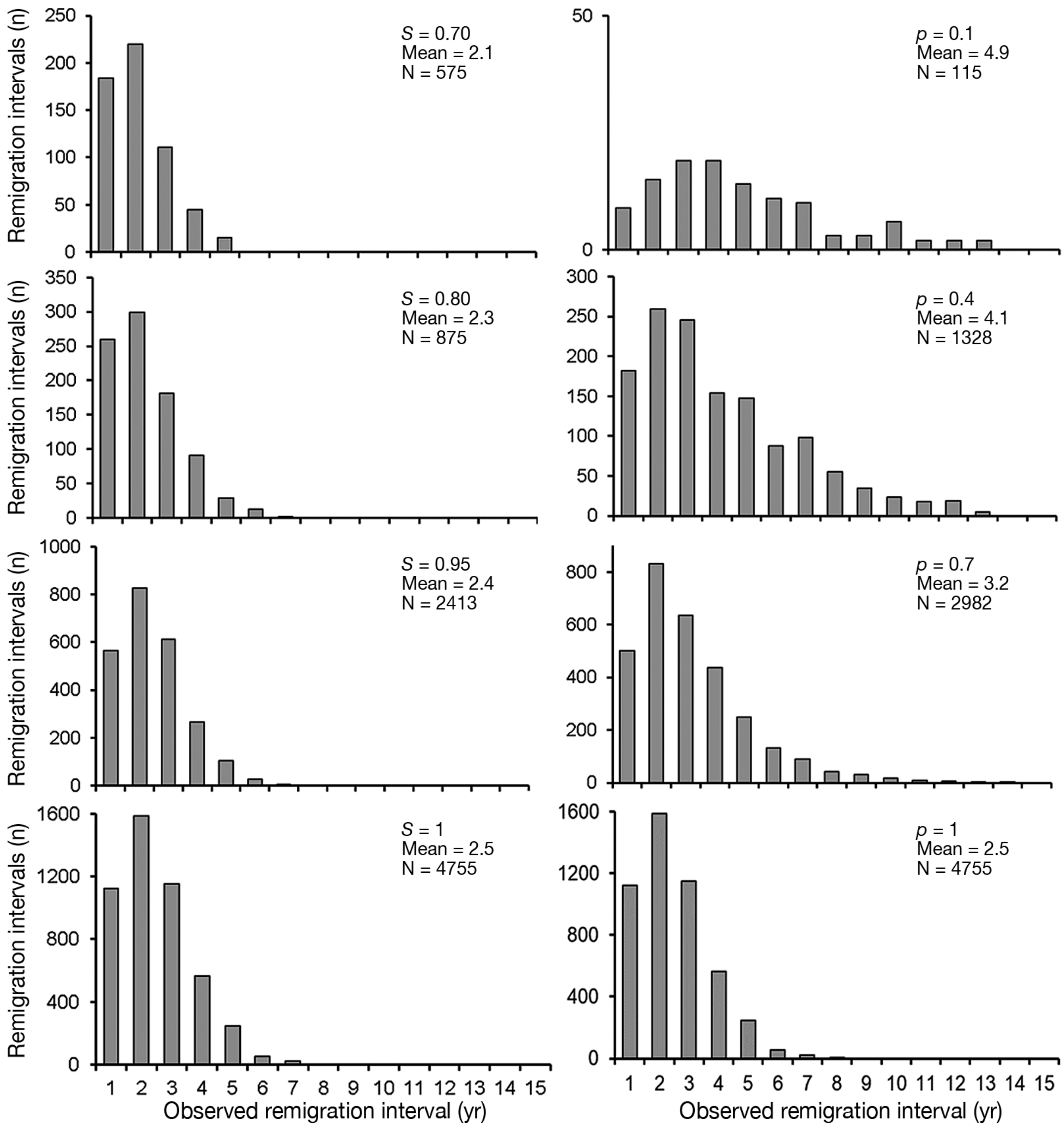

Fig. 1. Frequency distribution of turtle female remigration intervals (RI) observed from different simulations of a virtual turtle assemblage of 1000 adult females and mean RI = 2.6 yr as an example. Different scenarios are shown with (left panels) fixed detection probability (p) = 1 and annual survival probability (S) ranging from 0.70 to 1 and (right panels) fixed survival (S = 1) with p ranging from 0.1 to 1. Resulting mean RI and number of observed RIs (N) are shown

28 to 188% (median = 71%; IQ range: 47–120) for method REM and from −27 to 1133% (median = 812%; IQ range: 13–858%) for method MSLR. The 2 methods with corrections (respectively REM-t and MSLR p-corr) greatly reduced the error (Fig. 2). Over a range of S and p values, the overall effect was an overestimation of adult female assemblage size, with increasing errors at lower and higher mean RI for the REM and MSLR methods, respectively (Fig. 3). Also in this case, the 2 methods with corrections (respectively REM-t and MSLR p-corr) greatly reduced and balanced the errors at different M values (Fig. 3).

Of the 4 methods to calculate BP to estimate the adult female assemblage size, REM-t showed the best performance over a variety of M, S, and p (median: −10.8%; IQ range: −18.2–2.4%; range: −48.8–48.9%; n = 768), followed by REM, MSLR p-corr and MSLR (Fig. 4). Thanks to the inclusion of additional informa-

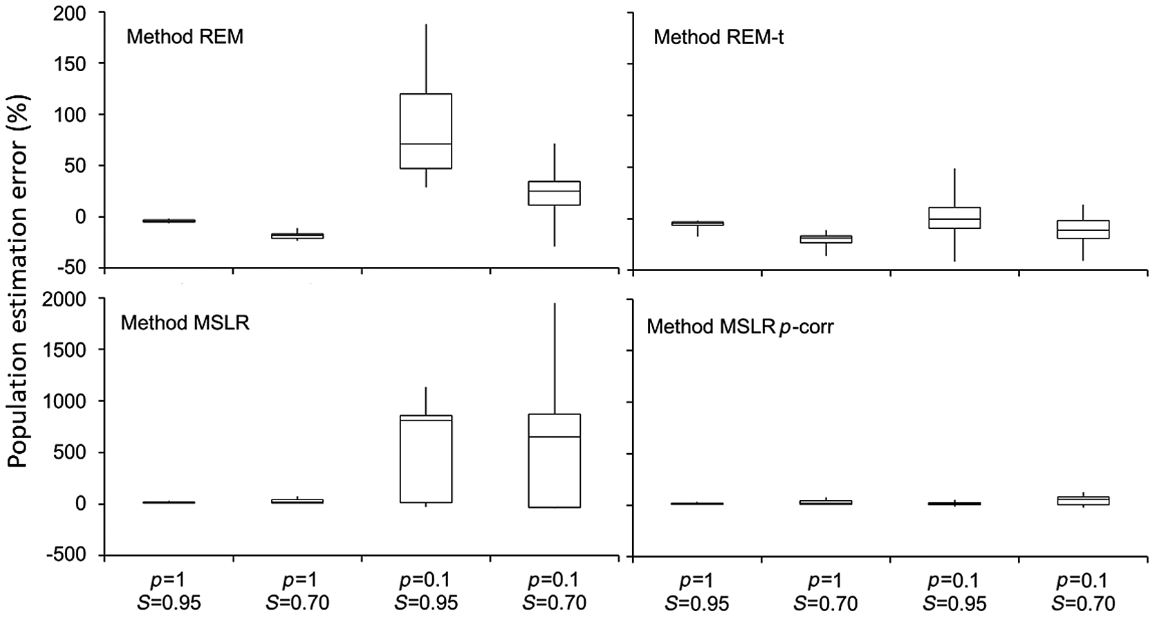

Fig. 2. Errors (%) of sea turtle adult female assemblage size estimated ([estimated − real]/real) from a virtual assemblage of 1000 adult females with mean remigration interval ranging from 1.6 to 4 yr (interval 0.2; n = 13). Distributions of the resulting 13 error values are shown as a box-plot (median, quartiles 1 and 3, and min–max) for each of the 4 combinations of 2 values of *S* and 2 values of *p*. Four methods to derive the breeding proportion are compared: mean remigration interval (REM), mean remigration interval calculated from a conditionally truncated distribution (REM-t, see Section 2.3), multistate live recapture model (MSLR), and MSLR corrected with fixed *p* estimated from simulation results (MSLR *p*-corr; see Section 2.3)

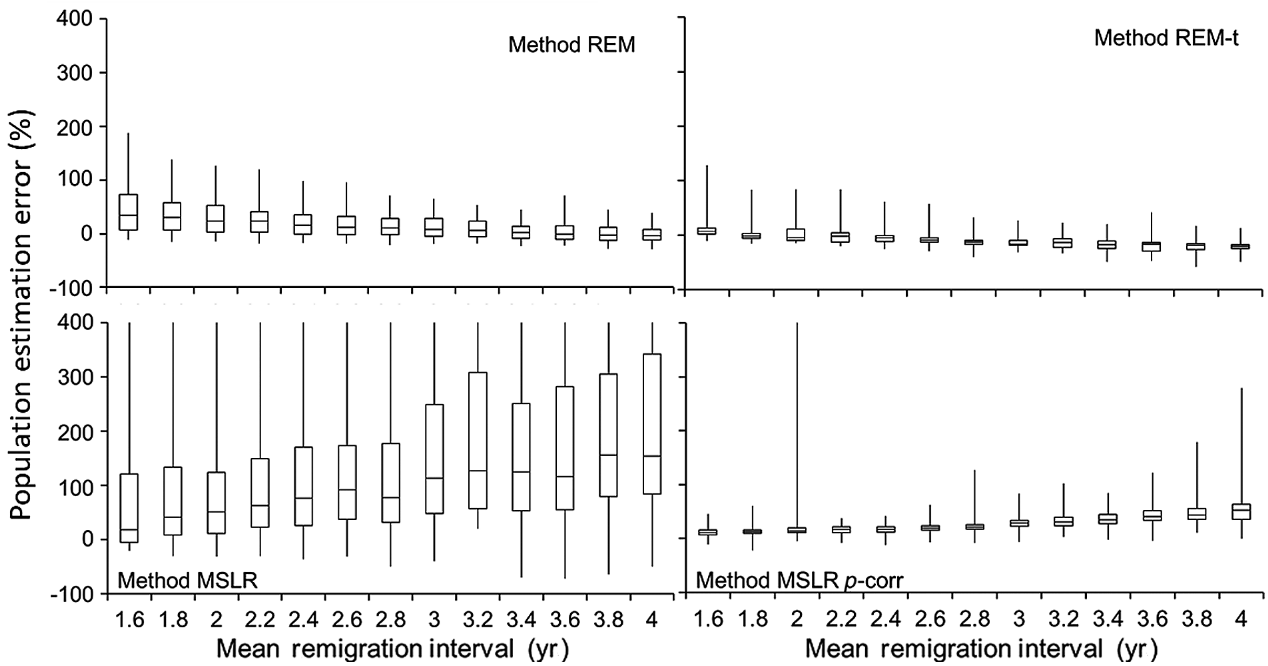

Fig. 3. Errors (%) of sea turtle adult female assemblage size estimated from a virtual assemblage of 1000 adult females with *S* ranging from 0.7 to 0.95 (interval 0.5; n = 6) and *p* ranging from 0.1 to 1 (interval 0.1; n = 10). Distributions of the resulting 60 error values are shown as a box-plot for each of 13 values of given mean remigration interval. See Fig. 2 for details. Upper whiskers of MSLR and one of MSLR *p*-corr are truncated for display purposes

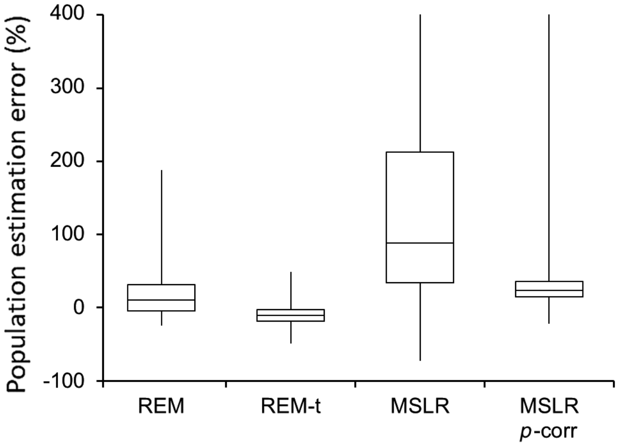

Fig. 4. Errors (%) of sea turtle adult female assemblage size estimated from a virtual assemblage of 1000 adult females with mean remigration interval ranging from 1.6 to 4 yr (interval 0.2; n = 13), *S* ranging from 0.7 to 0.95 (interval 0.5; n = 6) and *p* ranging from 0.1 to 1 (interval 0.1; n = 10). Of the resulting 780 error values, only those derived from a minimum of 20 remigration intervals were considered (n = 768), and their distribution is shown as a box-plot. See Fig. 2 for details. The latter 2 cases had a few very high values, and the upper whiskers are truncated for display purposes

tion (*p*; virtually obtained from other sources, see Section 2), MSLR *p*-corr greatly improved the performance of MSLR in terms of IQ range, but very high values were still produced. The correction approach undertaken by REM-t removed the bias and narrowed both IQ and total ranges of errors in comparison to REM.

Simulations with a range of virtual assemblage sizes from 25 to 1000 adult females show that errors increase at low assemblage sizes, with the possible exception of MSLR (see Figs. S1 & S2). However, this was because a low number of RIs are observed from smaller assemblages. When this effect was removed by calculating BP only from data sets with at least 20 RIs, the performance was similar at any assemblage size (Fig. S3), indicating that assemblage size has no effect per se and that a sample size of 20 RI is enough to estimate BP, at least with the REM-t method.

Correction of low *S* with the real *S* value worsened the performance of all methods except MSLR *p*-corr. The latter had a good performance, similar to REM-t, although moderately high-biased (Fig. 5). When *S* was corrected with an erroneous lower *S* value, all

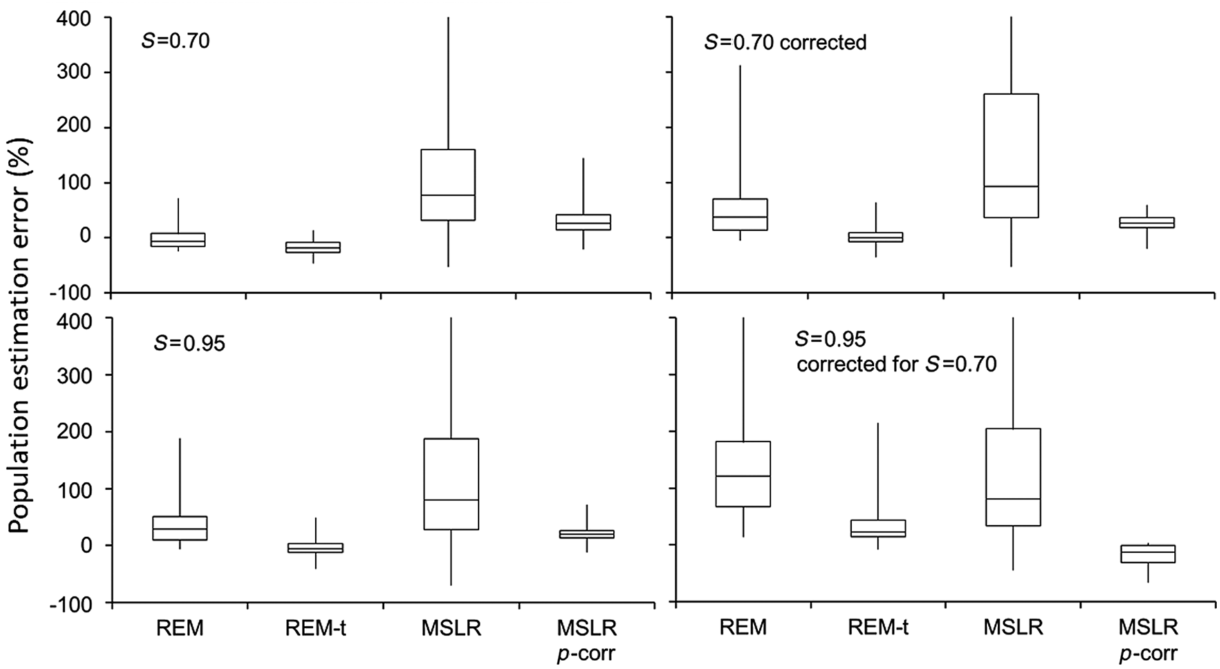

Fig. 5. Errors (%) of sea turtle adult female assemblage size estimated from a virtual assemblage of 1000 adult females with mean remigration interval ranging from 1.6 to 4 yr (interval 0.2; n = 13), *p* ranging from 0.1 to 1 (interval 0.1; n = 10) and *S* ranging from 0.7 to 0.95 (interval 0.5; n = 6). Results for *S* of 0.70 and 0.95 (on the left) are compared with the same *S* values with a correction for *S* = 0.70 (on the right), which represents a case of correction with a correct estimate of *S* in the top-right panel and a case of correction with an erroneous estimate of *S* in the bottom-right panel. Of the resulting 130 error values, only those derived from minimum 20 remigration intervals were considered. This condition was met in all 130 cases of the simulations '*S* = 0.95' and '*S* = 0.95 corrected for *S* = 0.70', while 124 and 129 values were considered for the simulations '*S* = 0.70' and '*S* = 0.70 corrected', respectively. See Fig. 2 for details

methods (and especially REM) provided worse results (Fig. 5). It should be noted that the correction approach for methods REM and REM-t (Eq. 10) successfully provided the true mean RI when $p = 1$ (simulations with $S = 0.70$ and M ranging from 1.6 to 4 yr; mean error = 0.008; n = 13).

4. DISCUSSION

This study provides information and methods that can contribute to future assessments of abundance and conservation status of sea turtle populations as well as to the re-assessment of previous estimates. Sea turtle population abundance (at least that of adult females) is currently derived from nest counts, which are converted into number of individuals through capture-mark-recapture data (i.e. clutch frequency and 'remigration intervals' or through more complex modeling). The present study strongly indicates that this conversion bears the risk of producing estimates very different from the real abundance. Although this risk may vary with the method, it cannot be totally eliminated, and this should be carefully considered when using population abundance estimations to derive the conservation status of populations.

The results show that mortality and detection probability may have important effects in estimating abundance. A low apparent survival probability may be caused both by a real low survivorship or by tag loss (see Pfaller et al. 2019 for a review of tag loss estimates wordwide). In both cases, the turtle cannot be detected anymore. A method to reduce missed identification due to tag loss is the subcutaneous application of passive integrated transponders (PIT) tags (Balazs 1999). However, PIT tags are expensive (compared to regular external flipper tags) and require the use of a PIT tag scanner, limiting their systematic use in many locations worldwide.

Detection probability is a particularly problematic parameter because it showed the greatest effect on population abundance estimate. With lower detection, fewer nesting events are observed, leading to incomplete individual nesting history and longer observed remigration intervals. A low detection probability may be caused by 2 different factors. A limited spatial or temporal capacity of the monitoring program would not detect all the turtles on the nesting beach (e.g. Pfaller et al. 2013). Another factor might be a limited site fidelity of turtles to the monitored beach across years. Turtles may not be detected in their breeding year because they laid clutches somewhere else; in another year, if they return to the original nesting beach where they were tagged and are encountered again, their remigration interval would appear longer than the reality. Naturally, long remigration intervals can only be reported by long-term monitoring projects. Therefore, although long-term projects are the most valuable ones in many respects, they also bear the highest risk of observing biased (long) remigration intervals (e.g. Ehrhart et al. 2014) and of producing biased (high) population abundance estimates. A good detection probability can be achieved only with a complete and regular monitoring of a nesting site with low–moderate nesting activity. For instance, we estimated (Eq. 8) that a p close to 1 was achieved, at least in certain years, at sites with intensive monitoring effort and just tens or a few hundreds of nesting events per year (e.g. Broderick et al. 2002, Bellini et al. 2013). In such cases, basically all turtles nesting in a certain season were encountered at least 1 time. Where, on the contrary, only partial monitoring is possible and/or a high number of clutches is laid annually, making it impossible to observe a good proportion of nesting activity, the detection probability can be very low. For instance, we estimated (Eq. 8) $p = 0.06$ at the Archie Carr National Wildlife Refuge (central east coast of Florida, USA) in the period 1982 to 2012, where an average of 11556 clutches were laid annually (Ehrhart et al. 2014).

Given that complete monitoring is rare and population abundance at regional management unit (Wallace et al. 2010) or species is driven by major nesting sites with high numbers of clutches per year, it is likely that population abundance assessments are based on datasets affected by imperfect detection. Therefore, the present results suggest that current estimates of turtle populations, mostly derived through method REM, may be overestimated, even by a factor of 2. Moreover, studies that adjusted data (remigration intervals) for mortality but not for detection (e.g. Richards et al. 2011) probably produced even greater overestimations. Since estimating S is difficult and estimates can be wrong, the small benefits of a good correction of S are not worth the great errors caused by a wrong correction. It is worth noting that even greater errors may be produced by more sophisticated CMR models (here represented by the MSLR method), which need to estimate at least 4 unknown parameters simultaneously. Results show incorrect estimates of all 4 parameters by MSLR in most simulations. As expected, fixing 1 parameter (p) with values close to real ones greatly improved the estimates of the other 3 parameters and fixing a second parameter (S) produced a further improvement, although slight. The decreased performance of CMR models in simulations with low detection probability was also reported by Troëng & Chaloupka (2007). In principle, robust design models using captures in secondary periods (i.e. within the same nesting season) should better estimate detection probability. However, such analyses may not be effective in some cases (e.g. Hamilton et al. 2015), require substantial increases in the number of parameters of the model and, obviously, cannot be applied if data about intra-season re-encounters are not available.

With the understanding that the population abundance of marine animals like sea turtles is inherently elusive and that any method bears a risk of error, we propose a method (method REM-t, mean remigration interval calculated from a conditionally truncated distribution; see Section 2) to correct the biases potentially produced by the most common method currently used (method REM). In the simulations, REM-t performed better than the methods except in some cases where the result was similar to that of the CMR p-corr method. REM-t is a simple and practical method, easy to implement in future studies as well as on existing datasets that are available at least in the form of frequency distribution of remigration intervals. It basically consists of right-censoring the dataset if there is evidence of a high right-skewness, which suggests the presence of artifact values due to a low detection probability. This method was robust in a variety of simulations with wide ranges of values of the main parameters involved, such as mean remigration interval (M), detection probability (p) and annual survival probability (S). It performed well also in case of correction for S and even minimized the error due to correction with a wrong S value.

It is important to remember that converting annual nesting females to total females by means of a conversion factor in the form of a breeding proportion (independently of how breeding proportion is estimated) assumes that the population is stable. One single breeding proportion value is estimated from the entire CMR study period and is commonly applied to an average number of annual nesting females. The simulations presented here were based on the same assumption. Naturally, even higher risks of errors may occur when estimating the abundance of a non-stable population, making corrections more difficult.

There is growing evidence, from the present and other studies (e.g. Tucker 2010, Pfaller et al. 2013, Weber et al. 2013, Esteban et al. 2017, Ceriani et al. 2019), of the risks associated with deriving sea turtle demographic parameters from nesting activity. Demographic parameters such as population abundance (at least of adult females) and annual survival probability are needed for proper management of sea turtles and deserve a careful understanding and a proper analysis of data. Obtaining suitable data is not a simple task. A complete seasonal and spatial coverage of the nesting activity in a site can increase the detection of clutches and of individual females. A high and constant effort across years can increase detection probability and minimize temporal biases. Researchers should restrain from estimating demographic parameters if the quality of data is questionable.

In summary, we recommend: (1) using only datasets with at least 20 remigration intervals (including multiple values from the same turtle), no matter the population size, (2) avoiding correction for S, (3) interpreting with caution the results of CMR models, since very large errors are possible, and in these models (4) fixing the detection probability parameter with values obtained by other sources whenever possible, (5) applying the correction method described here (REM-t; see Section 2) in place of the commonly used REM and in addition to CMR models, enhancing the value of nesting monitoring programs for abundance studies by (6) estimating the detection probability (see Eq. 8) and attempting to increase it if it is low, (7) always double tagging (and possibly applying PIT tags) and (8) having a consistent and complete spatio-temporal coverage of the nesting activity in a nesting area.

A recent re-evaluation of clutch frequency estimates (the other conversion factor relating clutches to females, see Section 1) found that the traditional method based on CMR could overestimate turtle abundance by a factor of 2 in cases of low detection probability (Tucker 2010, Weber et al. 2013, Esteban et al. 2017). Therefore, the combination of the 2 conversion factors (clutch frequency and remigration interval) obtained by traditional methods could have produced estimates of adult female abundance much higher than the reality. Thus, a general reassessment for populations should be deemed urgent to understand their real conservation status. The availability of new or improved methods to estimate clutch frequency and breeding proportion should encourage undertaking the ambitious task of estimating adult female abundance of as many sea turtle populations as possible. Reliable data on these 2 parameters, which are important for several other aspects, are still very limited, and their variation in time and among different populations should be assessed to improve our knowledge of the populations and to quantify the associated uncertainty.

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LITERATURE CITED

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Sea turtle populations are overestimated worldwide from remigration intervals: correction for bias

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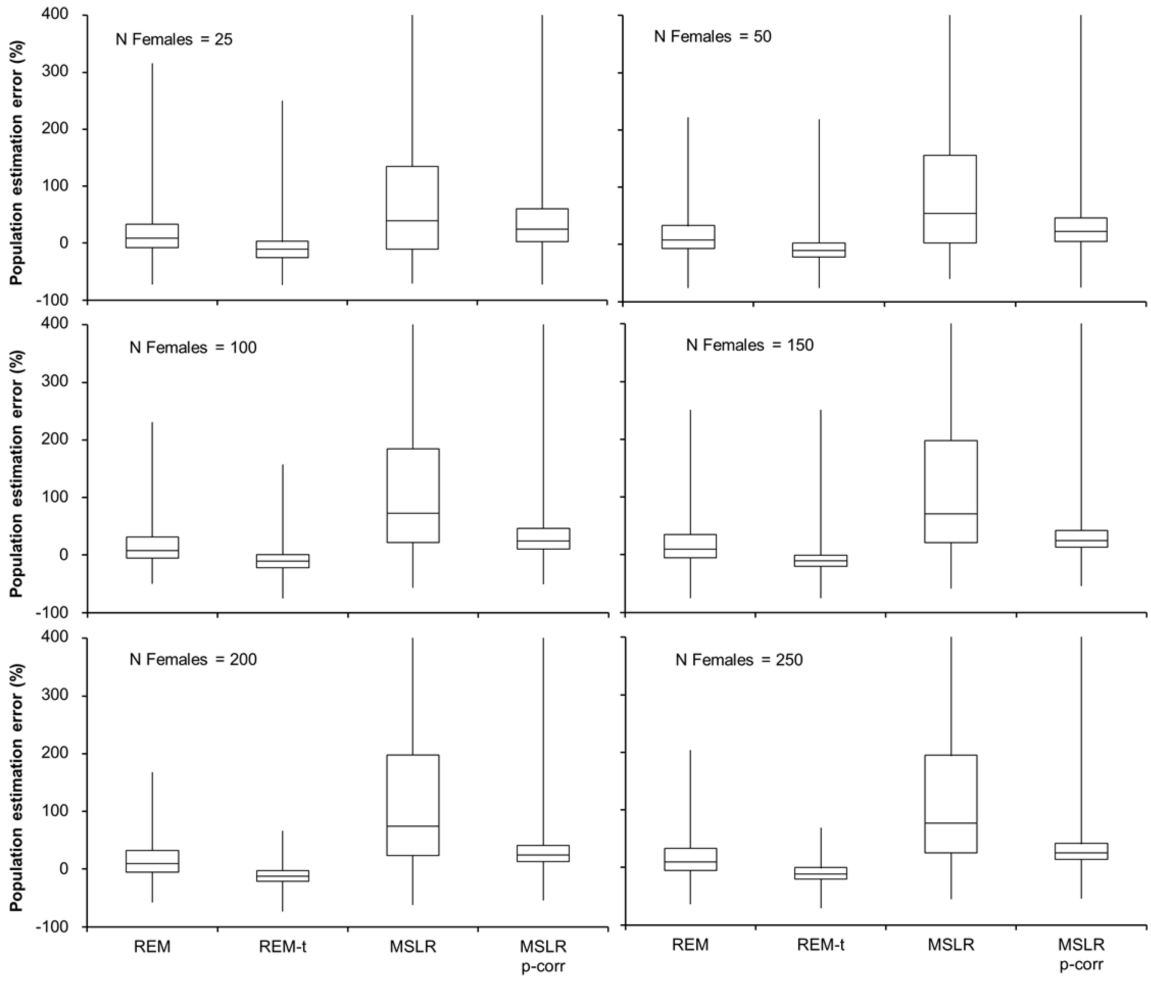

Figure S1. Errors (%) of sea turtle adult female assemblage size estimated ((estimated –real)/ real) from virtual assemblages ranging from 25 to 250 adult females with mean remigration interval ranging from 1.6 to 4 years (interval 0.2; n=13), annual survival probability (S) ranging from 0.7 to 0.95 (interval 0.5; n=6) and probability of detection (p) ranging from 0.1 to 1 (interval 0.1; n=10). Distributions of the resulting 780 error values are shown as a box-plot (median, quartiles 1 and 3, and min-max) for each of four methods to derive the Breeding

Proportion: mean remigration interval (REM), mean remigration interval calculated from a conditionally truncated distribution (REM-t, see text for details), multistate live recapture model (MSLR), MSLR corrected with fixed probability of detection (p) estimated from simulation results (MSLR p-corr; see text for details). The latter two cases had a few very high values and the upper whiskers are truncated for display purposes. Of the 780 simulations some resulted in no remigration intervals for assemblages smaller than 250 females. Specifically, the number of values included in each box plot was 744, 771, 775, 779, 779 for virtual assemblages of 25, 50, 100, 150, 200 females respectively.

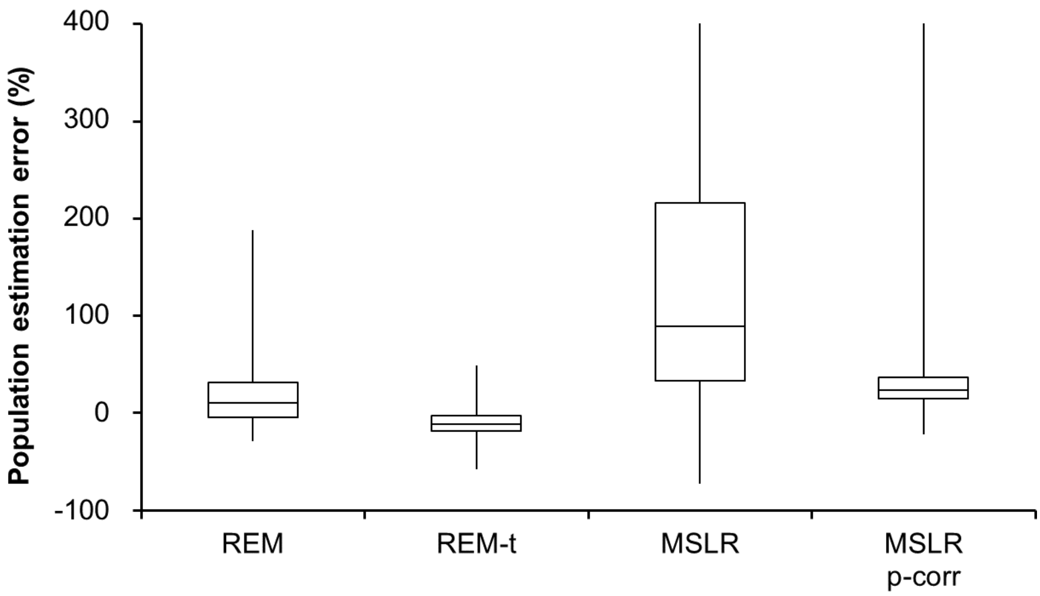

Figure S2. Errors (%) of sea turtle adult female assemblage size estimated ((estimated – real)/real) from a virtual assemblage of 1000 adult females. See Fig. S1 for details.

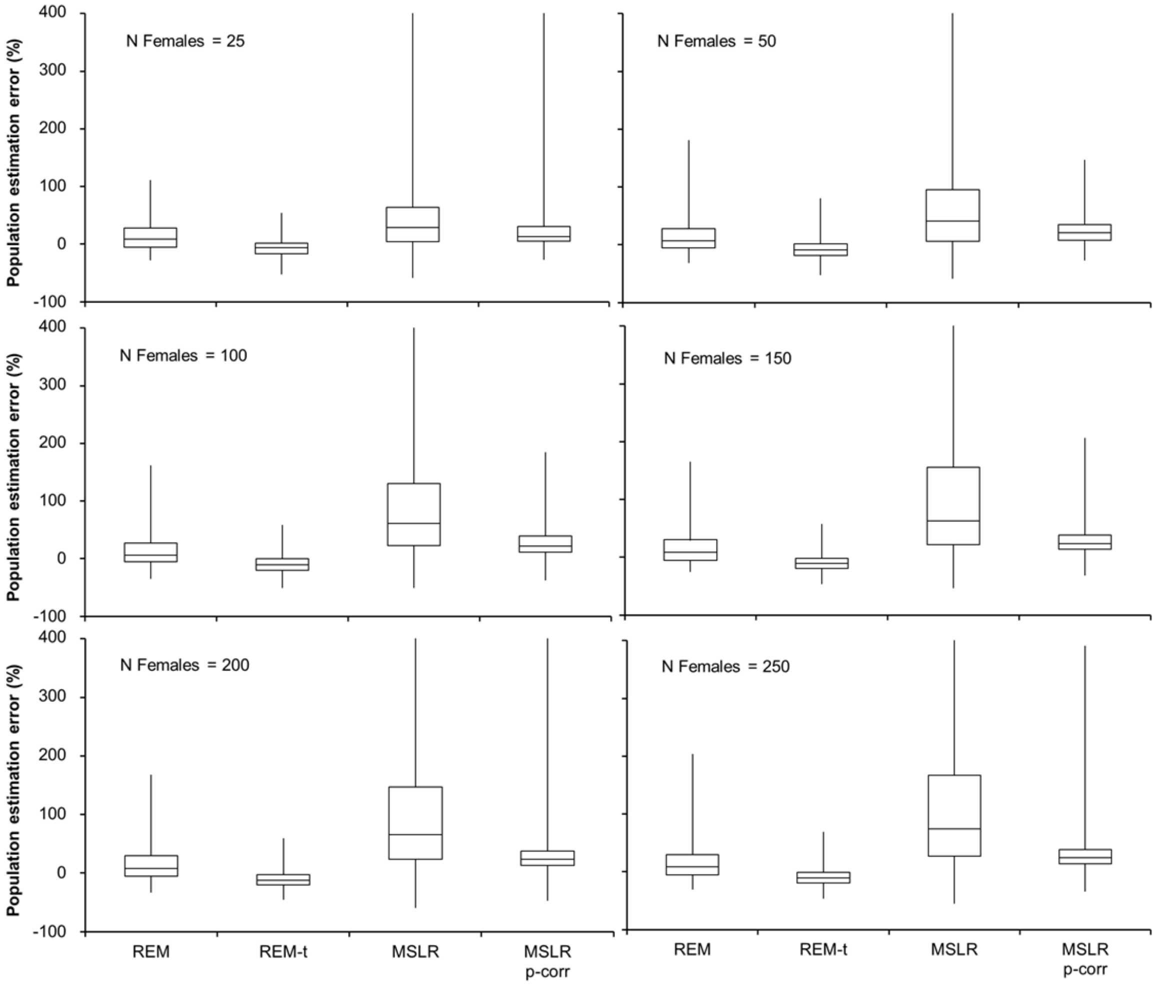

Figure S3. Errors (%) of sea turtle adult female assemblage size estimated ((estimated – real)/real) from virtual assemblages ranging from 25 to 250 adult females. See Fig. 4 for details. Only estimates derived from a minimum of 20 remigration intervals have been considered and consequently the number of values included in each box plot was lower than 780 and specifically they were 239, 456, 605, 655, 682, 700 for virtual assemblages of 25, 50, 100, 150, 200, 250 females respectively.

Table S1. Results of 910 simulations of a virtual assemblage of 1000 adult females, with mean remigration interval (M) ranging from 1.6 to 4 years (interval 0.2; n=13), annual survival probability (S) ranging from 0.70 to 1.00 (interval 0.05; n=6) and detection probability (p) ranging from 0.1 to 1 (interval 0.1; n=10). RI: remigration intervals 1-14; N RIs: number of observed remigration intervals; Skewness: see text; ANF: "true" annual nesting females; T obs: individual turtles observed; MSLR S, MSLR p, MSLR psiAB, MSLR psiBA: the four parameters of the MSLR model (see text); pobs: observed probability of detection (see text); MSLR p-corr S, MSLR p-corr p, MSLR p-corr psiAB, MSLR p-corr psiBA: the three parameters of the MSLR p-corr model (see text); REM, REM-t, MSLR, MSLR p-corr: Errors (%) of adult female abundance estimates ((estimated –real)/real) obtained from the four methods, respectively.

	M	S	p	RI=1	RI=2	RI=3	RI=4	RI=5	RI=6	RI=7	RI=8	RI=9	RI=10	RI=11	RI=12	RI=13	RI=14	N RIs	Mean RI	Skewness	ANF	T obs	MSLR_S	MSLR_p	MSLR_PsiB-NB	MSLR_PsiNB-B	pobs	MSLR p-corr_S	MSLR p-corr_PsiB-NB	MSLR p-corr_PsiNB-B	REM	REM-t	MSLR	MSLR p-corr
1	1.6	0.7	0.1	20	19	10	10	8	4	1	0	0	0	0	0	0	0	72	2.76	0.47	622	68	0.69	1.00	0.96	0.07	0.10	0.69	0.59	0.81	71.6	11.7	813.6	7.0
2	1.6	0.7	0.2	67	44	28	11	11	7	4	1	0	0	1	0	0	0	174	2.45	0.25	622	163	0.69	0.98	0.90	0.11	0.20	0.69	0.53	0.54	52.3	6.9	492.6	23.0
3	1.6	0.7	0.3	122	75	45	32	12	11	2	4	2	1	0	0	1	0	307	2.44	0.27	622	269	0.71	0.92	0.85	0.15	0.29	0.71	0.53	0.49	51.7	4.6	307.0	29.8
4	1.6	0.7	0.4	185	131	51	25	15	5	5	2	0	1	0	0	0	0	420	2.06	0.14	622	344	0.66	0.33	0.40	1.00	0.40	0.66	0.50	0.78	28.1	1.7	-12.7	1.8
5	1.6	0.7	0.5	234	136	65	34	10	3	8	1	1	2	0	0	0	0	494	2.02	0.14	622	400	0.67	0.32	0.27	1.00	0.49	0.67	0.53	0.56	25.6	0.2	-20.9	20.3
6	1.6	0.7	0.6	319	186	69	34	18	5	1	0	0	0	0	0	0	0	632	1.84	0.10	622	473	0.66	0.48	0.38	0.92	0.59	0.66	0.50	0.69	14.4	-2.7	-11.8	7.6
7	1.6	0.7	0.7	351	203	84	21	5	5	1	1	0	0	0	0	0	0	671	1.73	0.05	622	494	0.64	1.00	0.67	0.45	0.71	0.64	0.53	0.67	7.6	7.6	54.5	11.4
8	1.6	0.7	0.8	447	233	73	18	5	1	2	0	0	0	0	0	0	0	779	1.6	0.03	622	542	0.64	1.00	0.61	0.54	0.79	0.64	0.50	0.71	-0.5	-0.5	32.1	6.1
9	1.6	0.7	0.9	500	236	65	8	3	2	0	0	0	0	0	0	0	0	814	1.51	0.02	622	563	0.62	1.00	0.56	0.62	0.90	0.62	0.51	0.70	-6.1	-6.1	18.2	6.9
10	1.6	0.7	1	563	247	51	6	1	0	0	0	0	0	0	0	0	0	868	1.43	0.01	622	598	0.61	1.00	0.51	0.71	1.00	0.61	0.51	0.71	-11.1	-11.1	6.6	6.6
11	1.6	0.75	0.1	22	22	6	15	4	8	1	0	0	1	1	0	0	0	80	3	0.23	628	77	0.74	0.10	0.64	1.00	0.10	0.74	0.64	1.00	88.4	39.1	3.3	3.2
12	1.6	0.75	0.2	87	58	40	28	10	15	4	1	0	1	0	1	0	0	245	2.58	0.32	628	209	0.73	1.00	0.89	0.13	0.21	0.73	0.47	0.65	62.0	9.6	409.8	7.9
13	1.6	0.75	0.3	152	97	63	39	20	14	10	3	1	0	0	0	0	0	399	2.45	0.28	628	338	0.73	1.00	0.84	0.17	0.30	0.73	0.47	0.62	53.8	7.7	267.2	10.3
14	1.6	0.75	0.4	203	145	73	43	22	18	4	0	2	3	0	0	0	0	513	2.3	0.22	628	411	0.72	0.29	0.36	1.00	0.39	0.72	0.52	0.66	44.4	6.2	-14.9	12.6
15	1.6	0.75	0.5	263	183	78	36	16	5	6	1	0	0	1	0	0	0	589	2	0.12	628	434	0.68	0.53	0.54	0.69	0.50	0.68	0.51	0.75	25.6	3.4	12.0	5.4
16	1.6	0.75	0.6	341	225	96	27	14	12	4	3	0	1	1	0	0	0	724	1.94	0.09	628	516	0.69	0.54	0.48	0.76	0.60	0.69	0.52	0.67	21.8	21.8	2.5	11.8
17	1.6	0.75	0.7	383	228	117	35	16	4	5	0	0	0	0	0	0	0	788	1.86	0.08	628	535	0.69	1.00	0.69	0.41	0.70	0.69	0.56	0.61	16.8	16.8	68.6	20.3
18	1.6	0.75	0.8	483	258	74	37	11	2	0	2	0	0	0	0	0	0	867	1.67	0.06	628	592	0.67	0.59	0.35	1.00	0.80	0.67	0.52	0.64	4.9	4.9	-15.3	14.1
19	1.6	0.75	0.9	571	278	83	26	10	1	0	0	1	0	0	0	0	0	970	1.59	0.04	628	632	0.67	0.84	0.49	0.68	0.91	0.67	0.52	0.61	-0.2	-0.2	8.0	16.5
20	1.6	0.75	1	678	255	70	17	3	0	0	0	0	0	0	0	0	0	1023	1.45	0.02	628	655	0.65	1.00	0.49	0.62	1.00	0.65	0.49	0.62	-9.0	-9.0	11.9	11.9

21	1.6	0.8	0.1	29	22	23	14	6	2	3	4	0	1	2	0	0	0	106	3.07	0.43	621	100	0.77	1.00	0.95	0.07	0.10	0.77	0.43	0.77	90.7	19.2	796.2	- 3.5
22	1.6	0.8	0.2	81	80	44	21	25	15	7	4	3	3	1	1	1	0	286	2.96	0.40	621	245	0.79	0.17	0.47	0.89	0.20	0.79	0.55	0.72	83.9	13.0	-4.8	10.2
23	1.6	0.8	0.3	141	124	78	46	49	19	10	5	5	1	3	0	0	0	481	2.84	0.40	621	384	0.79	1.00	0.87	0.17	0.30	0.79	0.57	0.63	76.4	12.8	287.6	18.5
24	1.6	0.8	0.4	237	181	107	54	28	17	12	8	0	1	2	0	1	0	648	2.42	0.23	621	482	0.76	0.62	0.69	0.40	0.40	0.76	0.53	0.65	50.4	8.9	69.6	12.2
25	1.6	0.8	0.5	337	226	134	74	26	15	9	3	2	1	1	0	0	0	828	2.21	0.19	621	574	0.76	1.00	0.75	0.30	0.50	0.76	0.50	0.66	37.3	6.2	116.8	9.6
26	1.6	0.8	0.6	380	278	111	64	33	17	6	1	2	0	0	0	0	0	892	2.09	0.16	621	595	0.75	0.45	0.40	1.00	0.61	0.75	0.56	0.64	29.8	2.5	-13.2	16.5
27	1.6	0.8	0.7	494	285	119	46	14	9	4	1	0	1	1	0	0	0	974	1.83	0.08	621	615	0.72	0.77	0.55	0.58	0.70	0.72	0.50	0.65	13.7	13.7	20.9	10.6
28	1.6	0.8	0.8	557	342	116	37	12	4	4	0	0	0	0	0	0	0	1072	1.72	0.06	621	639	0.71	0.93	0.59	0.57	0.80	0.71	0.53	0.69	6.9	6.9	27.1	9.2
29	1.6	0.8	0.9	643	381	120	22	7	2	0	0	0	0	0	0	0	0	1175	1.62	0.03	621	679	0.70	1.00	0.58	0.62	0.90	0.70	0.53	0.70	0.7	0.7	20.1	9.2
30	1.6	0.8	1	776	413	104	10	2	0	0	0	0	0	0	0	0	0	1305	1.5	0.01	621	721	0.70	1.00	0.52	0.72	1.00	0.70	0.52	0.72	-6.8	-6.8	7.1	7.1
31	1.6	0.85	0.1	32	23	22	16	16	6	3	7	5	1	2	0	0	0	133	3.59	0.73	632	118	0.85	1.00	0.95	0.06	0.10	0.85	0.50	0.56	126.7	18.1	1,044.3	19.8
32	1.6	0.85	0.2	97	75	46	25	33	25	12	14	9	7	3	0	1	0	347	3.44	0.59	632	283	0.87	0.12	0.19	0.39	0.20	0.87	0.51	0.39	117.3	11.5	-6.0	46.1
33	1.6	0.85	0.3	164	144	87	63	49	22	18	11	6	4	5	4	0	0	577	3.04	0.46	632	433	0.84	0.20	0.36	1.00	0.29	0.84	0.56	0.60	92.0	14.0	-14.0	21.9
34	1.6	0.85	0.4	291	228	114	87	58	23	15	12	3	2	1	0	1	0	835	2.56	0.32	632	560	0.81	0.31	0.36	1.00	0.40	0.81	0.51	0.68	61.7	8.7	-14.1	10.3
35	1.6	0.85	0.5	393	286	177	85	50	35	15	8	7	2	1	0	0	0	1059	2.42	0.24	632	653	0.81	1.00	0.76	0.28	0.50	0.81	0.53	0.60	52.9	10.4	134.1	18.6
36	1.6	0.85	0.6	503	291	192	79	41	16	13	5	1	0	1	0	1	0	1143	2.14	0.16	632	668	0.79	1.00	0.70	0.34	0.60	0.79	0.50	0.58	35.2	6.4	94.7	18.2
37	1.6	0.85	0.7	643	476	160	83	40	15	9	4	0	0	0	0	0	0	1430	1.95	0.12	632	750	0.79	0.56	0.40	1.00	0.71	0.79	0.53	0.71	23.2	2.5	-11.3	10.6
38	1.6	0.85	0.8	734	475	158	61	17	6	3	2	0	0	0	0	0	0	1456	1.76	0.07	632	740	0.76	0.84	0.53	0.68	0.80	0.76	0.51	0.73	11.2	11.2	12.8	7.2
39	1.6	0.85	0.9	849	490	136	43	7	3	1	0	0	0	0	0	0	0	1529	1.61	0.04	632	755	0.75	1.00	0.55	0.63	0.91	0.75	0.50	0.72	1.7	1.7	18.5	7.8
40	1.6	0.85	1	998	472	120	13	4	0	0	0	0	0	0	0	0	0	1607	1.48	0.01	632	772	0.73	1.00	0.48	0.72	1.00	0.73	0.48	0.72	-6.5	-6.5	5.2	5.2
41	1.6	0.9	0.1	46	42	30	20	14	16	8	4	4	6	1	2	0	0	193	3.55	0.64	627	166	0.87	0.10	0.32	1.00	0.10	0.87	0.37	0.89	122.6	16.9	-17.1	- 10.9
42	1.6	0.9	0.2	129	107	84	59	47	46	22	23	8	7	3	3	2	1	541	3.57	0.69	627	396	0.90	1.00	0.89	0.12	0.20	0.90	0.47	0.63	123.8	16.6	440.3	9.9
43	1.6	0.9	0.3	258	183	136	86	59	39	31	18	8	7	2	0	2	0	829	2.96	0.44	627	520	0.87	1.00	0.83	0.18	0.31	0.87	0.45	0.60	85.6	12.1	252.8	9.5
44	1.6	0.9	0.4	310	264	178	112	81	43	28	21	11	8	7	1	0	0	1064	2.93	0.41	627	645	0.87	0.94	0.81	0.23	0.40	0.87	0.56	0.58	83.7	14.4	189.3	23.5
45	1.6	0.9	0.5	444	398	204	110	77	45	28	12	9	3	6	1	1	0	1338	2.57	0.28	627	717	0.86	0.38	0.41	0.95	0.49	0.86	0.55	0.65	61.1	11.0	-10.3	15.5
46	1.6	0.9	0.6	615	439	249	138	73	28	14	15	4	4	3	0	0	0	1582	2.31	0.21	627	780	0.85	1.00	0.72	0.34	0.60	0.85	0.52	0.61	44.8	7.8	95.6	17.0
47	1.6	0.9	0.7	721	475	258	114	69	21	11	4	2	0	0	0	0	0	1675	2.09	0.15	627	786	0.83	1.00	0.67	0.40	0.69	0.83	0.53	0.61	31.0	5.4	67.3	16.8
48	1.6	0.9	0.8	961	615	227	110	38	17	5	3	0	0	0	0	0	0	1976	1.85	0.10	627	822	0.82	0.65	0.39	0.89	0.80	0.82	0.51	0.66	16.0	16.0	-9.4	10.6
49	1.6	0.9	0.9	1146	617	216	64	17	6	0	0	0	0	0	0	0	0	2066	1.65	0.04	627	818	0.80	1.00	0.53	0.60	0.90	0.80	0.48	0.68	3.4	3.4	18.1	6.7
50	1.6	0.9	1	1283	672	203	31	7	0	0	0	0	0	0	0	0	0	2196	1.55	0.02	627	859	0.80	1.00	0.49	0.70	1.00	0.80	0.49	0.70	-2.8	-2.8	7.2	7.2

51	1.6	0.95	0.1	37	40	36	26	25	15	11	14	13	6	5	5	4	1	238	4.58	0.71	629	193	0.98	0.10	0.52	0.64	0.10	0.98	0.53	0.63	188.1	48.9	13.3	15.9
52	1.6	0.95	0.2	174	129	116	85	80	37	36	33	19	10	7	6	1	2	735	3.7	0.75	629	469	0.95	0.99	0.88	0.12	0.20	0.95	0.39	0.63	132.7	17.1	406.9	1.9
53	1.6	0.95	0.3	318	246	202	145	98	63	43	27	25	18	13	8	3	1	1210	3.37	0.58	629	669	0.94	1.00	0.84	0.17	0.31	0.94	0.48	0.58	112.0	16.3	270.8	14.9
54	1.6	0.95	0.4	487	356	260	182	104	78	58	35	18	16	9	3	1	0	1607	3.02	0.46	629	768	0.93	0.99	0.79	0.22	0.40	0.93	0.47	0.56	90.0	12.9	191.4	16.0
55	1.6	0.95	0.5	667	553	330	221	116	81	49	27	11	4	5	4	1	0	2069	2.67	0.33	629	846	0.93	0.40	0.40	0.87	0.50	0.93	0.52	0.63	67.9	12.1	-8.1	14.8
56	1.6	0.95	0.6	916	692	345	209	114	62	35	25	7	4	3	0	0	0	2412	2.36	0.24	629	877	0.91	0.44	0.32	1.00	0.60	0.91	0.50	0.62	48.4	7.4	-17.2	13.7
57	1.6	0.95	0.7	1139	819	402	206	80	45	25	8	2	2	2	0	0	0	2730	2.12	0.16	629	898	0.90	0.93	0.63	0.47	0.71	0.90	0.51	0.65	33.4	6.2	47.6	12.4
58	1.6	0.95	0.8	1418	982	385	168	56	10	7	3	1	0	0	0	0	0	3030	1.86	0.09	629	920	0.88	1.00	0.60	0.54	0.81	0.88	0.50	0.71	17.0	17.0	31.9	7.5
59	1.6	0.95	0.9	1717	1002	323	118	32	9	2	0	0	0	0	0	0	0	3203	1.68	0.05	629	913	0.87	1.00	0.53	0.62	0.90	0.87	0.47	0.70	5.7	5.7	16.7	5.3
60	1.6	0.95	1	1945	1109	295	55	12	0	0	0	0	0	0	0	0	0	3416	1.56	0.02	629	917	0.86	1.00	0.49	0.72	1.00	0.86	0.49	0.72	-1.9	-1.9	5.2	5.2
61	1.6	1	0.1	54	48	51	44	38	26	18	19	14	8	5	5	8	2	340	4.58	1.22	618	266	0.99	1.00	0.94	0.07	0.11	0.99	0.00	1.00	183.1	22.4	801.5	-38.2
62	1.6	1	0.2	193	182	140	110	110	72	53	32	40	34	19	10	6	2	1003	4.15	0.95	618	580	1.00	0.18	0.37	0.85	0.20	1.00	0.45	0.70	156.5	17.3	-11.4	1.5
63	1.6	1	0.3	446	431	317	236	163	117	92	53	42	20	17	14	10	0	1958	3.5	0.64	618	830	1.00	1.00	0.84	0.21	0.31	1.00	0.47	0.79	116.3	16.9	212.5	-1.1
64	1.6	1	0.4	751	629	411	297	180	160	87	67	53	24	6	4	6	2	2677	3.13	0.49	618	913	1.00	0.35	0.37	0.85	0.40	1.00	0.45	0.71	93.5	11.9	-11.1	0.9
65	1.6	1	0.5	1113	925	603	330	249	125	87	41	35	11	9	6	5	1	3540	2.74	0.34	618	973	1.00	1.00	0.74	0.32	0.49	1.00	0.46	0.75	69.4	11.7	102.6	-0.5
66	1.6	1	0.6	1641	1268	748	394	244	110	53	24	11	10	8	3	0	0	4514	2.38	0.23	618	997	1.00	1.00	0.68	0.40	0.59	1.00	0.46	0.75	47.1	8.5	67.1	-0.2
67	1.6	1	0.7	2338	1630	807	377	198	80	39	17	11	2	1	0	0	0	5500	2.1	0.15	618	999	1.00	1.00	0.61	0.47	0.70	1.00	0.45	0.73	29.8	3.8	41.9	-0.3
68	1.6	1	0.8	3012	1975	893	318	136	58	22	5	1	0	0	1	0	0	6421	1.89	0.09	618	1000	1.00	1.00	0.57	0.56	0.80	1.00	0.45	0.73	16.8	16.8	24.8	0.1
69	1.6	1	0.9	3820	2328	840	252	80	19	8	3	0	0	0	0	0	0	7350	1.71	0.05	618	1000	1.00	1.00	0.51	0.64	0.90	1.00	0.45	0.74	5.7	5.7	10.9	0.0
70	1.6	1	1	4670	2673	780	134	14	0	0	0	0	0	0	0	0	0	8271	1.57	0.02	618	1000	1.00	1.00	0.46	0.75	1.00	1.00	0.46	0.75	-3.0	-3.0	-0.1	-0.1
71	1.8	0.7	0.1	25	24	11	4	3	1	1	2	0	1	0	0	0	0	72	2.44	0.20	550	71	0.66	0.13	0.54	0.89	0.10	0.66	0.43	1.00	34.2	-2.9	-11.9	-21.5
72	1.8	0.7	0.2	55	33	23	18	6	8	2	1	2	0	0	0	0	0	148	2.57	0.33	550	136	0.72	0.08	0.02	0.00	0.20	0.72	0.59	0.44	41.3	-5.9	789,242.5	29.3
73	1.8	0.7	0.3	115	75	41	24	11	7	5	3	3	0	0	0	0	0	284	2.35	0.23	550	251	0.69	0.18	0.26	1.00	0.31	0.69	0.56	0.51	29.2	-7.7	-30.9	15.2
74	1.8	0.7	0.4	136	108	49	25	13	12	10	1	1	1	0	0	1	0	357	2.37	0.22	550	306	0.70	0.24	0.40	1.00	0.40	0.70	0.63	0.50	30.3	-6.4	-23.0	24.6
75	1.8	0.7	0.5	198	135	80	27	19	9	1	3	0	0	0	0	1	0	473	2.13	0.15	550	389	0.68	1.00	0.80	0.26	0.50	0.68	0.60	0.56	17.1	-5.8	121.4	13.5
76	1.8	0.7	0.6	242	175	87	31	21	3	1	1	0	0	0	0	0	0	561	1.99	0.11	550	445	0.66	1.00	0.77	0.35	0.60	0.66	0.61	0.62	9.4	-7.0	75.0	9.4
77	1.8	0.7	0.7	292	193	87	31	12	4	1	0	0	0	0	0	0	0	620	1.86	0.08	550	471	0.65	1.00	0.72	0.41	0.71	0.65	0.61	0.60	2.3	2.3	52.9	10.6
78	1.8	0.7	0.8	298	208	74	18	11	1	0	0	0	2	0	0	0	0	612	1.78	0.06	550	468	0.63	0.90	0.68	0.51	0.79	0.63	0.63	0.60	-2.1	-2.1	27.2	12.4
79	1.8	0.7	0.9	378	210	74	22	4	2	1	0	0	0	0	0	0	0	691	1.66	0.04	550	536	0.63	1.00	0.64	0.50	0.90	0.63	0.60	0.57	-8.7	-8.7	25.8	13.4
80	1.8	0.7	1	429	242	61	12	0	0	0	0	0	0	0	0	0	0	744	1.54	0.02	550	539	0.61	1.00	0.59	0.65	1.00	0.61	0.59	0.65	-15.3	-15.3	5.3	5.3

81	1.8	0.75	0.1	25	14	13	8	4	1	1	3	0	1	0	0	0	0	70	2.73	0.35	557	67	0.74	1.00	0.95	0.05	0.10	0.74	0.47	0.49	52.1	-1.5	980.1	8.8
82	1.8	0.75	0.2	63	53	40	21	14	8	10	5	1	1	0	0	0	0	216	2.87	0.38	557	196	0.75	1.00	0.92	0.11	0.20	0.75	0.59	0.59	59.9	3.2	425.1	11.7
83	1.8	0.75	0.3	96	74	55	44	26	19	5	5	5	2	0	0	0	0	331	2.93	0.47	557	295	0.78	1.00	0.90	0.13	0.29	0.78	0.66	0.45	63.2	1.3	355.8	37.2
84	1.8	0.75	0.4	181	123	79	36	22	11	9	5	0	0	0	1	0	0	467	2.35	0.22	557	374	0.72	1.00	0.83	0.21	0.41	0.72	0.57	0.55	30.9	-3.4	175.4	13.6
85	1.8	0.75	0.5	211	151	100	46	24	6	6	5	1	2	0	0	0	0	552	2.29	0.19	557	429	0.72	1.00	0.81	0.25	0.50	0.72	0.62	0.53	27.6	-2.0	134.4	19.9
86	1.8	0.75	0.6	265	208	100	49	29	13	4	2	2	1	0	1	0	0	674	2.2	0.18	557	513	0.72	0.58	0.62	0.57	0.60	0.72	0.64	0.53	22.5	-4.6	16.8	22.2
87	1.8	0.75	0.7	337	209	119	38	13	7	3	0	0	0	0	0	0	0	726	1.92	0.09	557	527	0.69	1.00	0.72	0.39	0.69	0.69	0.59	0.58	6.9	6.9	58.0	11.9
88	1.8	0.75	0.8	425	236	103	25	14	5	4	0	1	0	0	0	0	0	813	1.77	0.06	557	584	0.68	1.00	0.66	0.43	0.80	0.68	0.57	0.56	-1.4	-1.4	39.9	12.8
89	1.8	0.75	0.9	468	262	110	30	6	1	1	1	0	0	0	0	0	0	879	1.7	0.05	557	572	0.67	1.00	0.63	0.51	0.91	0.67	0.59	0.57	-5.3	-5.3	24.7	13.6
90	1.8	0.75	1	546	288	92	13	2	0	0	0	0	0	0	0	0	0	941	1.55	0.02	557	612	0.65	1.00	0.57	0.63	1.00	0.65	0.57	0.63	-13.7	-13.7	5.7	5.7
91	1.8	0.8	0.1	25	10	13	10	11	9	6	6	2	0	1	1	0	0	94	3.87	0.96	555	85	0.89	1.00	0.96	0.03	0.10	0.89	0.59	0.31	114.7	-2.9	1,539.2	60.4
92	1.8	0.8	0.2	65	59	33	31	16	12	6	3	3	4	2	1	0	0	235	3.09	0.50	555	208	0.79	0.13	0.42	1.00	0.20	0.79	0.61	0.54	71.5	-0.3	-21.1	18.4
93	1.8	0.8	0.3	131	112	62	52	30	13	12	6	3	3	2	1	0	0	427	2.81	0.40	555	336	0.78	0.21	0.40	1.00	0.31	0.78	0.59	0.57	55.9	-1.6	-22.3	12.9
94	1.8	0.8	0.4	188	141	92	64	29	26	12	7	3	2	0	0	1	0	565	2.66	0.34	555	439	0.78	1.00	0.84	0.19	0.40	0.78	0.61	0.50	47.6	-1.7	202.3	23.1
95	1.8	0.8	0.5	258	200	123	52	28	17	15	5	4	0	3	1	0	0	706	2.41	0.22	555	521	0.77	0.67	0.70	0.39	0.50	0.77	0.60	0.54	33.7	-1.9	55.4	16.9
96	1.8	0.8	0.6	331	229	118	54	32	19	10	4	4	0	1	0	0	0	802	2.22	0.18	555	556	0.75	0.43	0.44	0.76	0.60	0.75	0.59	0.51	23.2	-6.5	-12.6	19.1
97	1.8	0.8	0.7	402	266	141	61	18	8	6	2	3	0	0	0	0	0	907	2.01	0.12	555	598	0.73	1.00	0.71	0.38	0.71	0.73	0.60	0.55	11.5	-6.9	60.0	15.6
98	1.8	0.8	0.8	463	309	143	51	21	10	2	0	2	0	0	0	0	0	1001	1.91	0.09	555	617	0.73	1.00	0.68	0.44	0.80	0.73	0.60	0.56	6.0	6.0	42.4	15.1
99	1.8	0.8	0.9	542	362	127	45	12	2	2	0	0	0	0	0	0	0	1092	1.75	0.06	555	673	0.72	1.00	0.64	0.54	0.90	0.72	0.60	0.61	-2.9	-2.9	21.3	9.8
100	1.8	0.8	1	608	400	137	36	3	0	0	0	0	0	0	0	0	0	1184	1.67	0.03	555	683	0.71	1.00	0.61	0.62	1.00	0.71	0.61	0.62	-7.3	-7.3	10.5	10.5
101	1.8	0.85	0.1	24	16	18	14	8	6	5	2	1	1	0	1	1	0	97	3.47	0.67	563	88	0.92	0.05	0.08	0.00	0.09	0.92	0.50	0.57	95.2	6.7	72,111,357.6	6.2
102	1.8	0.85	0.2	65	70	44	33	27	15	13	5	7	5	3	2	1	0	290	3.48	0.37	563	246	0.85	0.14	0.48	0.91	0.19	0.85	0.63	0.58	95.8	24.5	-14.3	17.4
103	1.8	0.85	0.3	165	132	92	77	44	26	19	15	5	3	4	1	0	0	583	3.04	0.50	563	422	0.84	1.00	0.87	0.16	0.30	0.84	0.56	0.55	71.0	2.0	271.0	13.5
104	1.8	0.85	0.4	222	190	128	77	43	32	20	10	9	2	1	0	0	0	734	2.77	0.36	563	518	0.82	1.00	0.84	0.21	0.39	0.82	0.59	0.58	55.8	2.7	183.5	13.3
105	1.8	0.85	0.5	283	251	163	89	49	21	11	6	1	4	2	0	0	0	880	2.5	0.26	563	573	0.80	1.00	0.81	0.28	0.49	0.80	0.60	0.62	40.7	2.8	118.6	10.8
106	1.8	0.85	0.6	392	314	192	73	31	23	22	8	3	2	0	0	0	0	1060	2.31	0.18	563	654	0.79	1.00	0.76	0.32	0.60	0.79	0.60	0.57	30.0	-0.0	88.1	15.0
107	1.8	0.85	0.7	494	386	195	73	40	21	7	5	2	0	0	0	0	0	1223	2.11	0.14	563	696	0.79	1.00	0.72	0.40	0.70	0.79	0.60	0.60	18.7	-3.1	57.5	12.3
108	1.8	0.85	0.8	586	416	185	74	26	11	5	1	3	0	0	0	0	0	1307	1.94	0.10	563	708	0.77	1.00	0.67	0.46	0.80	0.77	0.59	0.59	9.1	-6.5	38.8	12.1
109	1.8	0.85	0.9	702	452	184	52	15	2	3	0	0	0	0	0	0	0	1410	1.75	0.05	563	743	0.76	1.00	0.61	0.55	0.90	0.76	0.57	0.63	-1.5	-1.5	18.6	7.4
110	1.8	0.85	1	809	461	164	32	0	0	0	0	0	0	0	0	0	0	1466	1.6	0.02	563	738	0.74	1.00	0.56	0.65	1.00	0.74	0.56	0.65	-10.0	-10.0	4.4	4.4

111	1.8	0.9	0.1	28	27	16	15	12	13	10	9	7	3	2	0	1	0	143	4.18	1.01	557	131	0.92	0.06	0.33	1.00	0.10	0.92	0.55	0.51	133.0	2.1	-25.6	16.7
112	1.8	0.9	0.2	93	87	84	47	32	35	20	15	12	6	9	1	1	0	442	3.69	0.67	557	341	0.90	1.00	0.92	0.11	0.20	0.90	0.58	0.57	105.7	9.6	441.2	12.2
113	1.8	0.9	0.3	169	178	124	87	65	45	22	19	17	6	9	2	2	0	745	3.37	0.34	557	506	0.89	0.31	0.63	0.56	0.30	0.89	0.61	0.61	87.9	24.4	18.0	11.8
114	1.8	0.9	0.4	257	245	168	115	79	41	26	9	11	5	2	4	1	0	963	2.95	0.44	557	622	0.87	1.00	0.84	0.21	0.40	0.87	0.60	0.60	64.5	4.1	176.0	12.0
115	1.8	0.9	0.5	435	323	214	126	88	51	31	15	12	5	5	1	1	0	1307	2.71	0.34	557	707	0.87	1.00	0.78	0.24	0.50	0.87	0.56	0.51	51.1	-1.2	133.8	17.6
116	1.8	0.9	0.6	495	447	235	129	74	50	24	15	5	0	2	1	0	0	1477	2.47	0.25	557	741	0.86	0.52	0.55	0.70	0.59	0.86	0.60	0.59	37.7	-0.8	-0.6	12.7
117	1.8	0.9	0.7	608	490	292	130	63	42	12	6	5	2	2	0	0	0	1652	2.28	0.19	557	780	0.85	1.00	0.73	0.37	0.70	0.85	0.61	0.56	27.1	-1.2	64.8	15.9
118	1.8	0.9	0.8	765	533	264	125	57	23	6	5	0	1	1	0	1	0	1781	2.06	0.14	557	789	0.83	1.00	0.67	0.43	0.80	0.83	0.58	0.56	14.8	-6.4	42.9	14.1
119	1.8	0.9	0.9	871	673	290	89	22	11	3	1	0	0	0	0	0	0	1960	1.86	0.07	557	841	0.82	1.00	0.64	0.56	0.90	0.82	0.60	0.63	3.7	3.7	19.9	8.5
120	1.8	0.9	1	1028	715	256	56	10	2	0	0	0	0	0	0	0	0	2067	1.7	0.03	557	825	0.80	1.00	0.58	0.65	1.00	0.80	0.58	0.65	-5.2	-5.2	6.1	6.1
121	1.8	0.95	0.1	38	31	28	26	15	17	6	9	4	9	3	3	2	2	193	4.29	0.99	555	162	1.00	0.06	0.10	0.10	0.10	1.00	0.44	0.52	138.2	5.3	9.4	2.3
122	1.8	0.95	0.2	123	101	83	68	53	44	43	19	15	8	8	5	4	0	574	3.91	0.87	555	403	0.95	1.00	0.90	0.10	0.20	0.95	0.53	0.52	117.1	3.8	445.6	11.6
123	1.8	0.95	0.3	209	233	180	112	100	75	42	27	21	25	9	5	2	2	1042	3.62	0.42	555	649	0.95	0.35	0.67	0.48	0.31	0.95	0.62	0.57	101.0	25.8	33.2	15.8
124	1.8	0.95	0.4	348	337	234	172	121	81	43	39	24	13	12	3	0	1	1428	3.25	0.55	555	731	0.94	0.88	0.82	0.23	0.40	0.94	0.60	0.57	80.4	4.1	151.5	13.5
125	1.8	0.95	0.5	567	499	314	185	116	76	48	36	26	11	4	2	1	0	1885	2.83	0.37	555	828	0.93	0.38	0.42	0.83	0.50	0.93	0.57	0.56	57.1	0.9	-16.2	11.7
126	1.8	0.95	0.6	674	606	392	209	123	75	41	18	17	5	0	3	0	0	2163	2.6	0.29	555	855	0.92	1.00	0.76	0.32	0.61	0.92	0.61	0.56	44.3	1.7	88.4	15.9
127	1.8	0.95	0.7	899	701	431	192	133	59	33	13	8	3	1	1	0	0	2474	2.36	0.22	555	880	0.91	1.00	0.71	0.37	0.70	0.91	0.58	0.55	31.0	-1.8	63.4	14.8
128	1.8	0.95	0.8	1078	879	399	163	82	44	13	7	3	0	2	0	0	0	2670	2.08	0.13	555	880	0.89	0.81	0.59	0.60	0.81	0.89	0.59	0.60	15.5	-5.0	9.3	9.7
129	1.8	0.95	0.9	1226	969	453	147	52	18	6	2	0	0	0	0	0	0	2873	1.93	0.08	555	908	0.88	1.00	0.64	0.55	0.90	0.88	0.59	0.62	7.1	7.1	20.4	8.8
130	1.8	0.95	1	1504	1115	445	109	24	2	0	0	0	0	0	0	0	0	3199	1.76	0.04	555	897	0.88	1.00	0.59	0.64	1.00	0.88	0.59	0.64	-2.3	-2.3	6.7	6.7
131	1.8	1	0.1	37	30	40	34	30	19	23	18	6	10	5	4	5	0	261	4.77	1.44	562	207	1.00	1.00	0.95	0.06	0.10	1.00	0.00	0.99	168.0	13.9	883.7	- 43.8
132	1.8	1	0.2	143	149	154	118	76	79	55	43	29	24	17	8	6	0	901	4.24	0.41	562	539	1.00	1.00	0.91	0.12	0.21	1.00	0.55	0.69	138.2	54.1	377.1	1.2
133	1.8	1	0.3	308	301	254	187	163	112	74	63	42	25	18	13	4	4	1568	3.84	0.82	562	769	1.00	1.00	0.87	0.17	0.30	1.00	0.55	0.64	115.7	8.9	246.8	4.5
134	1.8	1	0.4	566	554	384	265	198	123	77	45	37	37	13	10	5	9	2323	3.3	0.54	562	891	1.00	0.41	0.55	0.63	0.39	1.00	0.53	0.68	85.4	5.6	5.1	0.1
135	1.8	1	0.5	840	848	551	324	229	124	104	40	39	24	11	3	3	0	3140	2.93	0.23	562	951	1.00	0.76	0.71	0.41	0.49	1.00	0.55	0.70	64.6	20.2	54.3	0.1
136	1.8	1	0.6	1269	1144	692	376	236	122	74	50	26	12	4	3	1	0	4009	2.6	0.29	562	987	1.00	1.00	0.73	0.36	0.59	1.00	0.54	0.68	46.1	1.9	68.6	0.6
137	1.8	1	0.7	1821	1482	817	390	201	92	75	28	12	5	3	1	0	0	4927	2.29	0.20	562	998	1.00	1.00	0.67	0.44	0.70	1.00	0.53	0.67	28.7	-1.3	42.8	0.7
138	1.8	1	0.8	2294	1838	929	403	163	69	31	13	3	1	1	0	0	0	5745	2.08	0.14	562	999	1.00	1.00	0.64	0.51	0.80	1.00	0.54	0.68	16.9	-2.8	25.9	1.1
139	1.8	1	0.9	2921	2204	945	340	103	39	12	5	2	0	0	0	0	0	6571	1.89	0.08	562	1000	1.00	1.00	0.59	0.59	0.90	1.00	0.54	0.68	6.2	6.2	11.7	0.6
140	1.8	1	1	3624	2563	966	227	39	8	0	0	0	0	0	0	0	0	7427	1.72	0.04	562	1000	1.00	1.00	0.54	0.69	1.00	1.00	0.54	0.69	-3.4	-3.4	0.3	0.3

141	2	0.7	0.1	10	12	7	6	1	2	1	1	0	0	0	0	0	0	40	2.77	0.14	504	39	0.67	1.00	0.97	0.05	0.10	0.67	0.73	0.62	39.6	13.8	872.6	9.9
142	2	0.7	0.2	43	26	28	12	11	1	1	1	0	1	0	0	0	0	124	2.52	0.28	504	116	0.68	1.00	0.93	0.09	0.20	0.68	0.64	0.47	27.0	-7.0	457.6	18.4
143	2	0.7	0.3	98	64	41	19	17	7	7	2	0	1	0	0	0	0	256	2.45	0.26	504	224	0.70	1.00	0.88	0.13	0.31	0.70	0.61	0.45	23.5	-13.3	283.0	18.8
144	2	0.7	0.4	112	104	66	27	14	7	2	3	2	0	1	0	0	0	338	2.38	0.20	504	291	0.68	1.00	0.87	0.21	0.41	0.68	0.68	0.56	20.0	-7.4	158.6	12.3
145	2	0.7	0.5	155	106	63	37	14	7	1	1	3	0	0	0	0	0	387	2.22	0.19	504	327	0.67	1.00	0.83	0.22	0.50	0.67	0.66	0.46	11.9	-13.5	140.0	23.6
146	2	0.7	0.6	202	157	73	35	15	5	2	1	0	0	0	0	0	0	490	2.04	0.13	504	401	0.65	1.00	0.79	0.32	0.60	0.65	0.66	0.56	2.8	-14.2	75.0	9.1
147	2	0.7	0.7	248	180	85	21	12	9	0	2	0	0	0	0	0	0	557	1.93	0.09	504	453	0.65	1.00	0.75	0.37	0.70	0.65	0.65	0.55	-2.7	-2.7	53.3	9.5
148	2	0.7	0.8	306	184	92	28	16	2	3	0	0	0	0	0	0	0	631	1.86	0.08	504	482	0.66	1.00	0.71	0.38	0.80	0.66	0.64	0.49	-6.2	-6.2	44.0	16.4
149	2	0.7	0.9	313	218	95	24	5	0	3	0	0	0	0	0	0	0	658	1.79	0.05	504	510	0.64	1.00	0.71	0.48	0.90	0.64	0.67	0.53	-9.8	-9.8	24.8	14.1
150	2	0.7	1	362	240	95	16	5	0	0	0	0	0	0	0	0	0	718	1.69	0.03	504	526	0.63	1.00	0.67	0.55	1.00	0.63	0.67	0.55	-14.8	-14.8	11.6	11.6
151	2	0.75	0.1	7	10	5	6	6	2	2	1	0	1	0	0	0	0	40	3.5	0.43	505	39	0.79	0.06	0.72	0.69	0.09	0.79	0.83	0.39	76.8	19.1	3.4	58.1
152	2	0.75	0.2	53	51	25	16	13	8	3	2	1	0	1	1	0	0	174	2.74	0.35	505	159	0.74	0.15	0.48	0.98	0.19	0.74	0.60	0.69	38.4	-9.9	-24.7	-5.6
153	2	0.75	0.3	101	97	49	27	24	11	6	3	5	0	0	1	0	1	325	2.69	0.32	505	279	0.75	0.22	0.50	0.88	0.31	0.75	0.65	0.57	35.9	-9.6	-20.7	7.6
154	2	0.75	0.4	110	114	80	40	23	6	7	4	6	1	2	1	0	0	394	2.71	0.15	505	335	0.74	1.00	0.89	0.18	0.40	0.74	0.72	0.49	36.9	8.4	201.2	24.5
155	2	0.75	0.5	185	161	71	44	26	10	7	2	1	2	1	0	0	0	510	2.34	0.22	505	403	0.72	0.33	0.48	0.94	0.50	0.72	0.66	0.54	18.2	-12.8	-23.8	11.5
156	2	0.75	0.6	215	182	105	51	24	10	8	0	0	1	1	0	0	0	597	2.27	0.19	505	477	0.72	1.00	0.81	0.29	0.60	0.72	0.68	0.51	14.7	-10.0	91.9	18.6
157	2	0.75	0.7	252	212	108	53	23	7	8	0	0	0	0	0	0	0	663	2.15	0.16	505	488	0.71	1.00	0.79	0.34	0.69	0.71	0.69	0.51	8.6	-11.7	67.7	18.8
158	2	0.75	0.8	318	220	113	59	12	2	4	1	1	0	0	0	0	0	730	1.99	0.12	505	541	0.70	1.00	0.74	0.38	0.80	0.70	0.67	0.48	0.6	-14.9	48.1	20.6
159	2	0.75	0.9	383	289	107	52	10	1	0	0	0	0	0	0	0	0	842	1.84	0.08	505	572	0.69	1.00	0.70	0.49	0.90	0.69	0.66	0.56	-7.0	-7.0	22.1	10.5
160	2	0.75	1	406	297	96	39	3	1	0	0	0	0	0	0	0	0	842	1.74	0.05	505	591	0.67	1.00	0.67	0.55	1.00	0.67	0.67	0.55	-12.1	-12.1	12.0	12.0
161	2	0.8	0.1	7	9	13	7	5	2	4	2	1	2	0	0	1	0	53	4.06	0.29	500	51	0.84	1.00	0.98	0.03	0.10	0.84	0.83	0.35	103.0	42.7	1,460.9	68.6
162	2	0.8	0.2	48	50	22	29	18	9	11	4	3	2	2	0	0	0	198	3.29	0.33	500	179	0.81	0.12	0.51	1.00	0.19	0.81	0.68	0.51	64.5	10.7	-24.4	17.7
163	2	0.8	0.3	78	88	76	41	29	19	18	9	1	1	3	0	0	0	363	3.18	0.28	500	304	0.80	1.00	0.92	0.13	0.29	0.80	0.73	0.49	59.0	14.1	294.4	23.8
164	2	0.8	0.4	136	145	95	49	41	20	8	5	1	1	1	1	0	0	503	2.72	0.18	500	416	0.77	1.00	0.88	0.20	0.39	0.77	0.69	0.57	36.0	6.7	164.9	10.4
165	2	0.8	0.5	210	181	112	59	30	17	10	3	2	2	2	0	0	0	628	2.47	0.25	500	463	0.75	1.00	0.83	0.25	0.51	0.75	0.66	0.52	23.5	-9.8	117.9	13.2
166	2	0.8	0.6	223	233	120	71	27	15	8	2	3	3	0	0	1	0	706	2.41	0.09	500	510	0.75	0.86	0.80	0.35	0.60	0.75	0.71	0.53	20.5	20.5	63.6	16.7
167	2	0.8	0.7	305	262	146	68	34	12	4	4	0	1	0	0	0	0	836	2.21	0.17	500	579	0.75	1.00	0.78	0.35	0.70	0.75	0.68	0.52	10.5	-11.2	61.6	14.8
168	2	0.8	0.8	344	307	149	49	23	7	2	3	0	0	0	0	0	0	884	2.03	0.11	500	602	0.72	1.00	0.75	0.43	0.80	0.72	0.68	0.56	1.5	-12.2	36.5	10.9
169	2	0.8	0.9	428	382	159	44	13	4	0	2	0	0	0	0	0	0	1032	1.89	0.07	500	646	0.72	1.00	0.71	0.53	0.90	0.72	0.68	0.59	-5.5	-5.5	17.4	7.0
170	2	0.8	1	478	373	160	39	9	1	0	0	0	0	0	0	0	0	1060	1.8	0.05	500	645	0.72	1.00	0.68	0.56	1.00	0.72	0.68	0.56	-10.0	-10.0	10.6	10.6

171	2	0.85	0.1	15	20	10	13	4	10	6	2	1	1	1	1	0	0	84	3.77	0.45	500	77	0.85	0.07	0.64	1.00	0.10	0.85	0.72	0.67	88.5	18.1	-17.8	3.5
172	2	0.85	0.2	57	51	47	34	27	18	13	6	9	6	2	0	1	1	272	3.71	0.75	500	231	0.87	1.00	0.94	0.08	0.20	0.87	0.69	0.42	85.5	-3.2	541.4	32.8
173	2	0.85	0.3	122	115	55	45	40	29	19	14	12	4	4	1	0	0	460	3.3	0.58	500	363	0.85	0.16	0.38	1.00	0.30	0.85	0.65	0.41	65.0	-11.5	-31.1	29.8
174	2	0.85	0.4	163	190	111	67	39	32	17	13	5	4	1	1	1	0	644	2.91	0.21	500	466	0.82	0.39	0.68	0.60	0.40	0.82	0.69	0.57	45.5	7.7	6.7	10.5
175	2	0.85	0.5	230	222	154	78	63	37	25	13	6	5	0	2	1	0	836	2.88	0.38	500	570	0.83	1.00	0.85	0.21	0.50	0.83	0.69	0.46	44.0	-6.3	148.1	25.7
176	2	0.85	0.6	270	268	170	94	54	31	20	7	7	5	1	2	0	0	929	2.68	0.31	500	593	0.82	1.00	0.83	0.26	0.59	0.82	0.71	0.46	34.0	-7.1	111.0	27.1
177	2	0.85	0.7	353	355	206	84	41	22	9	1	1	1	0	2	0	0	1075	2.3	0.08	500	647	0.79	1.00	0.78	0.37	0.70	0.79	0.69	0.56	15.0	15.0	55.7	11.8
178	2	0.85	0.8	432	403	213	86	40	19	8	1	1	1	0	0	0	0	1204	2.17	0.15	500	685	0.79	1.00	0.75	0.41	0.80	0.79	0.69	0.53	8.5	-10.5	41.4	14.8
179	2	0.85	0.9	481	462	192	68	22	8	5	3	1	0	0	0	0	0	1242	2	0.09	500	694	0.77	1.00	0.72	0.49	0.90	0.77	0.69	0.56	-0.0	-0.0	23.0	11.8
180	2	0.85	1	563	482	201	74	11	1	2	0	0	0	0	0	0	0	1334	1.87	0.07	500	727	0.76	1.00	0.68	0.55	1.00	0.76	0.68	0.55	-6.5	-6.5	11.9	11.9
181	2	0.9	0.1	16	17	13	16	10	14	2	7	5	2	1	1	0	1	105	4.37	0.69	502	96	0.91	1.00	0.97	0.04	0.10	0.91	0.70	0.46	119.4	23.9	1,162.0	27.5
182	2	0.9	0.2	77	81	58	52	34	24	16	8	9	4	4	2	4	0	373	3.62	0.39	502	289	0.88	1.00	0.92	0.11	0.20	0.88	0.05	0.00	81.8	16.3	376.0	#######
183	2	0.9	0.3	128	129	117	59	62	44	23	23	14	9	10	8	2	0	628	3.73	0.45	502	462	0.91	1.00	0.91	0.12	0.29	0.91	0.68	0.44	87.3	12.8	328.3	27.4
184	2	0.9	0.4	219	240	153	94	63	52	24	24	12	2	8	2	3	1	897	3.14	0.27	502	560	0.88	0.35	0.61	0.64	0.41	0.88	0.67	0.53	57.7	9.1	-1.3	13.2
185	2	0.9	0.5	265	306	198	115	84	45	40	21	10	5	3	2	1	0	1095	2.99	0.24	502	644	0.87	0.68	0.78	0.35	0.50	0.87	0.70	0.51	50.1	9.7	61.3	19.4
186	2	0.9	0.6	354	386	220	148	76	47	27	14	14	2	0	1	0	0	1289	2.71	0.16	502	698	0.86	0.82	0.78	0.35	0.60	0.86	0.70	0.51	36.1	7.8	60.4	18.3
187	2	0.9	0.7	487	472	253	143	88	33	18	8	5	2	0	0	1	0	1510	2.43	0.25	502	758	0.85	1.00	0.77	0.35	0.70	0.85	0.67	0.52	22.0	-9.3	61.6	14.7
188	2	0.9	0.8	634	553	300	120	48	29	9	5	3	2	0	0	0	0	1703	2.16	0.15	502	792	0.84	1.00	0.72	0.43	0.80	0.84	0.64	0.56	8.5	-10.9	34.6	8.3
189	2	0.9	0.9	655	603	310	101	41	18	2	2	1	0	0	0	0	0	1733	2.05	0.11	502	773	0.82	1.00	0.71	0.49	0.90	0.82	0.67	0.56	2.9	-10.6	22.3	11.0
190	2	0.9	1	779	691	311	87	12	6	1	0	0	0	0	0	0	0	1887	1.88	0.06	502	808	0.81	1.00	0.67	0.58	1.00	0.81	0.67	0.58	-5.6	-5.6	7.5	7.5
191	2	0.95	0.1	23	26	25	16	14	17	11	5	7	5	5	2	2	0	158	4.56	0.76	495	138	0.96	1.00	0.96	0.05	0.10	0.96	0.63	0.54	125.6	17.7	925.5	7.0
192	2	0.95	0.2	68	86	73	47	58	39	31	24	16	17	16	9	3	1	488	4.57	0.78	495	364	0.98	0.25	0.77	0.34	0.20	0.98	0.72	0.44	126.1	16.8	60.5	30.8
193	2	0.95	0.3	162	190	134	102	87	59	44	41	25	16	13	7	1	3	884	3.9	0.50	495	572	0.96	0.22	0.56	0.74	0.31	0.96	0.69	0.48	93.0	13.8	-13.3	21.1
194	2	0.95	0.4	250	287	196	143	112	60	64	32	21	19	12	6	1	1	1204	3.5	0.37	495	688	0.95	0.34	0.63	0.61	0.39	0.95	0.68	0.50	73.2	12.1	0.6	16.8
195	2	0.95	0.5	399	440	259	198	126	81	58	31	16	9	5	4	1	1	1628	3.06	0.26	495	789	0.93	0.38	0.56	0.78	0.50	0.93	0.66	0.54	51.4	8.7	-15.1	10.8
196	2	0.95	0.6	530	575	380	235	136	79	43	27	13	7	9	2	1	0	2037	2.82	0.18	495	843	0.93	1.00	0.81	0.29	0.60	0.93	0.68	0.53	39.5	8.2	85.6	12.8
197	2	0.95	0.7	627	666	409	221	109	81	29	22	9	5	1	1	0	1	2181	2.59	0.13	495	876	0.91	1.00	0.78	0.34	0.70	0.91	0.69	0.52	28.2	4.7	62.2	15.2
198	2	0.95	0.8	792	819	460	216	98	51	29	6	2	2	1	0	0	0	2476	2.33	0.08	495	880	0.90	1.00	0.74	0.42	0.80	0.90	0.68	0.54	15.3	15.3	37.9	11.3
199	2	0.95	0.9	929	932	506	207	70	30	6	5	1	0	1	0	0	0	2687	2.15	0.04	495	890	0.89	1.00	0.71	0.49	0.90	0.89	0.68	0.55	6.4	6.4	22.0	10.4
200	2	0.95	1	1102	1104	496	173	34	11	0	0	0	0	0	0	0	0	2920	1.96	0.02	495	898	0.88	1.00	0.68	0.58	1.00	0.88	0.68	0.58	-3.0	-3.0	7.3	7.3

201	2	1	0.1	34	28	19	27	13	17	12	12	8	7	4	5	3	0	189	4.69	1.33	503	154	0.99	0.09	0.45	0.46	0.10	0.99	0.47	0.44	136.0	-8.7	-0.6	4.9
202	2	1	0.2	98	143	105	69	73	58	36	26	28	22	13	12	11	2	696	4.42	0.68	503	455	0.99	0.22	0.68	0.60	0.20	0.99	0.64	0.69	122.4	18.2	7.3	-2.7
203	2	1	0.3	216	286	215	181	109	98	67	50	39	19	17	10	4	5	1316	3.9	0.47	503	667	0.99	0.75	0.86	0.23	0.29	0.99	0.63	0.69	96.3	20.9	139.3	-3.2
204	2	1	0.4	434	441	381	254	183	141	88	62	38	20	17	8	7	1	2075	3.51	0.37	503	867	1.00	1.00	0.85	0.22	0.40	1.00	0.61	0.60	76.7	15.8	148.5	1.3
205	2	1	0.5	679	638	523	331	224	145	108	51	29	25	22	8	8	0	2791	3.21	0.52	503	953	1.00	1.00	0.81	0.27	0.50	1.00	0.60	0.59	61.6	-3.6	102.1	2.1
206	2	1	0.6	996	1020	678	377	265	133	82	35	26	25	8	1	3	0	3649	2.79	0.19	503	981	1.00	1.00	0.77	0.34	0.62	1.00	0.62	0.61	40.4	7.8	63.1	1.0
207	2	1	0.7	1325	1304	784	423	180	125	84	35	10	12	2	1	0	0	4285	2.51	0.26	503	992	1.00	1.00	0.73	0.40	0.70	1.00	0.61	0.62	26.3	-7.3	42.7	0.3
208	2	1	0.8	1720	1585	899	452	174	102	42	15	5	8	0	0	3	0	5005	2.29	0.19	503	1000	1.00	1.00	0.69	0.46	0.80	1.00	0.61	0.61	15.3	-9.2	26.0	0.6
209	2	1	0.9	2230	1913	990	450	128	46	29	7	1	1	0	0	0	0	5795	2.07	0.13	503	1000	1.00	1.00	0.65	0.53	0.90	1.00	0.61	0.61	4.2	-11.5	11.5	0.6
210	2	1	1	2695	2333	1083	350	67	13	8	0	0	0	0	0	0	0	6549	1.91	0.07	503	1000	1.00	1.00	0.62	0.62	1.00	1.00	0.62	0.62	-3.9	-3.9	0.2	0.2
211	2.2	0.7	0.1	6	14	6	6	2	2	2	0	0	0	0	0	0	0	38	2.95	0.19	451	38	0.69	0.11	0.85	0.65	0.10	0.69	0.84	0.70	33.1	7.1	4.1	-1.3
212	2.2	0.7	0.2	30	37	12	18	12	3	2	2	1	1	0	0	0	0	118	2.87	0.22	451	111	0.72	0.12	0.62	1.00	0.20	0.72	0.76	0.55	29.5	-1.4	-26.9	7.2
213	2.2	0.7	0.3	47	72	35	29	11	13	6	1	0	1	0	0	0	0	215	2.81	0.17	451	192	0.72	0.27	0.77	0.63	0.30	0.72	0.80	0.55	26.8	1.6	0.4	10.0
214	2.2	0.7	0.4	93	73	63	35	18	8	2	4	2	1	0	0	0	0	299	2.61	0.31	451	269	0.71	1.00	0.90	0.15	0.41	0.71	0.74	0.39	17.7	-15.7	206.6	30.8
215	2.2	0.7	0.5	122	113	70	35	14	5	3	4	0	2	2	0	0	0	370	2.41	0.21	451	311	0.69	1.00	0.87	0.21	0.51	0.69	0.74	0.44	8.7	-17.5	130.0	20.7
216	2.2	0.7	0.6	150	147	70	25	12	6	3	2	0	0	0	0	0	0	415	2.14	0.13	451	338	0.64	1.00	0.83	0.31	0.60	0.64	0.73	0.54	-3.5	-19.6	67.5	5.9
217	2.2	0.7	0.7	178	164	98	32	17	10	4	3	0	0	0	0	0	0	506	2.22	0.15	451	410	0.68	1.00	0.83	0.30	0.69	0.68	0.75	0.45	0.1	-18.0	69.4	20.9
218	2.2	0.7	0.8	212	176	100	42	11	6	1	1	0	0	0	0	0	0	549	2.07	0.13	451	433	0.67	1.00	0.79	0.35	0.80	0.67	0.74	0.45	-6.6	-20.1	46.5	20.1
219	2.2	0.7	0.9	253	211	97	39	8	3	0	0	1	0	0	0	0	0	612	1.94	0.09	451	467	0.66	1.00	0.76	0.42	0.90	0.66	0.73	0.48	-12.5	-12.5	26.4	14.6
220	2.2	0.7	1	266	243	87	25	5	0	0	0	0	0	0	0	0	0	626	1.82	0.05	451	486	0.63	1.00	0.74	0.53	1.00	0.63	0.74	0.53	-17.9	-17.9	8.3	8.3
221	2.2	0.75	0.1	12	13	8	6	2	2	3	0	1	1	0	0	0	0	48	3.08	0.23	452	45	0.76	0.07	0.57	0.84	0.10	0.76	0.68	0.57	39.3	-0.3	-24.1	-1.4
222	2.2	0.75	0.2	41	39	25	12	14	6	4	5	0	3	0	0	0	0	149	2.99	0.42	452	132	0.76	0.16	0.62	0.58	0.21	0.76	0.71	0.42	35.3	-16.4	-6.4	23.1
223	2.2	0.75	0.3	68	68	48	29	14	8	8	5	2	0	0	1	0	0	251	2.82	0.18	452	221	0.74	1.00	0.92	0.13	0.31	0.74	0.73	0.46	27.6	-1.5	264.2	17.4
224	2.2	0.75	0.4	103	118	70	50	20	13	7	4	0	2	0	0	0	0	387	2.66	0.13	452	324	0.73	1.00	0.89	0.20	0.40	0.73	0.73	0.54	20.3	-0.7	151.3	7.0
225	2.2	0.75	0.5	146	125	84	38	33	12	8	5	1	2	0	0	0	1	455	2.58	0.28	452	377	0.74	1.00	0.86	0.19	0.50	0.74	0.72	0.40	16.7	-17.4	148.2	26.4
226	2.2	0.75	0.6	182	159	100	68	18	8	9	3	3	0	0	0	0	0	550	2.41	0.25	452	438	0.73	1.00	0.84	0.26	0.60	0.73	0.73	0.44	9.0	-18.0	93.4	19.4
227	2.2	0.75	0.7	228	182	114	53	22	10	7	3	2	0	0	0	0	0	621	2.27	0.19	452	463	0.72	1.00	0.80	0.29	0.70	0.72	0.72	0.43	2.7	-19.4	70.4	20.8
228	2.2	0.75	0.8	237	206	119	63	20	9	0	0	1	0	0	0	0	0	655	2.17	0.17	452	500	0.70	1.00	0.80	0.35	0.80	0.70	0.74	0.44	-1.8	-19.0	48.7	21.2
229	2.2	0.75	0.9	285	253	133	36	18	6	1	1	0	0	0	0	0	0	733	2.01	0.09	452	530	0.69	1.00	0.76	0.43	0.90	0.69	0.73	0.48	-9.1	-9.1	26.4	14.6
230	2.2	0.75	1	334	262	144	36	8	2	0	0	0	0	0	0	0	0	786	1.89	0.06	452	536	0.68	1.00	0.73	0.48	1.00	0.68	0.73	0.48	-14.5	-14.5	13.6	13.6

231	2.2	0.8	0.1	12	16	18	3	1	4	0	0	2	1	0	0	0	0	57	2.93	0.14	454	56	0.71	1.00	0.97	0.07	0.10	0.71	0.67	0.65	32.9	4.3	561.5	-8.0
232	2.2	0.8	0.2	42	37	40	24	13	6	8	8	8	2	1	1	0	0	190	3.52	0.60	454	171	0.84	1.00	0.95	0.07	0.20	0.84	0.72	0.38	59.7	-10.0	541.7	31.0
233	2.2	0.8	0.3	80	84	54	39	29	22	6	4	0	0	1	1	1	0	321	2.97	0.25	454	274	0.78	1.00	0.91	0.14	0.30	0.78	0.70	0.52	34.7	-0.1	242.2	6.0
234	2.2	0.8	0.4	107	156	84	61	33	17	13	7	2	2	1	1	0	0	484	2.87	0.19	454	390	0.78	0.51	0.81	0.42	0.41	0.78	0.76	0.56	30.2	1.7	32.4	6.8
235	2.2	0.8	0.5	140	163	122	60	41	18	18	5	4	5	0	0	0	0	576	2.84	0.19	454	459	0.78	1.00	0.89	0.21	0.50	0.78	0.77	0.44	28.8	0.3	138.6	24.0
236	2.2	0.8	0.6	192	197	123	66	40	16	11	5	3	1	0	0	0	1	655	2.57	0.13	454	483	0.76	1.00	0.85	0.25	0.60	0.76	0.74	0.45	16.6	-4.3	96.1	20.4
237	2.2	0.8	0.7	241	245	150	60	28	9	8	3	2	0	0	1	1	1	749	2.34	0.08	454	533	0.75	1.00	0.81	0.32	0.70	0.75	0.73	0.48	6.2	6.2	59.6	13.9
238	2.2	0.8	0.8	286	279	147	74	40	12	5	2	2	0	0	0	0	0	847	2.27	0.19	454	581	0.75	1.00	0.79	0.35	0.81	0.75	0.74	0.45	3.0	-18.1	47.6	20.4
239	2.2	0.8	0.9	323	316	167	54	10	8	5	1	0	0	0	0	0	0	884	2.05	0.10	454	591	0.72	1.00	0.76	0.45	0.90	0.72	0.74	0.51	-7.0	-7.0	22.7	11.3
240	2.2	0.8	1	348	356	158	46	9	1	2	0	0	0	0	0	0	0	920	1.94	0.01	454	603	0.71	1.00	0.74	0.52	1.00	0.71	0.74	0.52	-12.0	-12.0	9.8	9.8
241	2.2	0.85	0.1	15	10	14	11	11	4	4	6	3	0	1	0	1	1	81	4.21	1.08	456	75	0.90	1.00	0.97	0.03	0.10	0.90	0.70	0.35	92.2	-9.9	1,235.5	36.6
242	2.2	0.85	0.2	37	44	47	31	26	9	9	5	2	3	2	0	0	0	215	3.47	0.16	456	190	0.82	1.00	0.95	0.10	0.19	0.82	0.73	0.52	58.4	28.3	396.5	9.9
243	2.2	0.85	0.3	78	104	84	43	34	22	23	9	7	3	4	2	2	1	416	3.48	0.35	456	349	0.85	0.79	0.91	0.16	0.30	0.85	0.76	0.47	58.9	4.9	204.9	19.6
244	2.2	0.85	0.4	145	135	120	69	36	24	20	12	7	2	1	1	3	1	576	3.07	0.44	456	437	0.83	1.00	0.88	0.16	0.39	0.83	0.70	0.45	40.1	-11.6	190.6	17.0
245	2.2	0.85	0.5	196	170	144	84	48	40	26	17	6	5	2	0	1	0	739	3.03	0.45	456	541	0.84	1.00	0.86	0.18	0.49	0.84	0.72	0.38	38.3	-13.4	163.6	31.7
246	2.2	0.85	0.6	247	257	143	75	52	39	18	7	3	6	0	1	0	1	849	2.68	0.18	456	583	0.81	0.47	0.65	0.59	0.60	0.81	0.72	0.45	22.3	-5.8	-4.4	19.6
247	2.2	0.85	0.7	268	316	198	113	51	27	15	8	7	2	0	0	0	0	1005	2.6	0.12	456	650	0.81	1.00	0.83	0.30	0.71	0.81	0.77	0.45	18.7	-0.8	71.3	23.7
248	2.2	0.85	0.8	339	364	225	99	47	20	12	3	2	0	0	0	0	0	1111	2.36	0.08	456	672	0.80	1.00	0.80	0.37	0.80	0.80	0.74	0.48	7.7	7.7	44.0	17.1
249	2.2	0.85	0.9	402	401	223	86	35	12	1	0	0	0	0	0	0	0	1160	2.13	0.13	456	664	0.77	1.00	0.76	0.45	0.90	0.77	0.73	0.50	-2.8	-16.7	23.2	11.7
250	2.2	0.85	1	447	458	242	75	15	5	2	0	0	0	0	0	0	0	1244	2.02	0.02	456	697	0.77	1.00	0.74	0.51	1.00	0.77	0.74	0.51	-7.8	-7.8	11.4	11.4
251	2.2	0.9	0.1	14	24	14	13	10	7	4	7	3	4	6	5	0	0	111	4.73	0.71	462	97	0.96	0.05	0.58	1.00	0.11	0.96	0.79	0.40	118.6	10.9	-26.8	38.1
252	2.2	0.9	0.2	57	52	58	44	24	29	24	11	12	6	4	1	3	1	326	4.1	0.95	462	260	0.92	1.00	0.94	0.08	0.20	0.92	0.70	0.42	89.5	-7.3	501.4	21.9
253	2.2	0.9	0.3	122	142	78	83	44	38	28	20	12	11	6	6	2	0	592	3.65	0.39	462	435	0.91	0.18	0.50	1.00	0.30	0.91	0.70	0.47	68.7	5.7	-30.5	14.7
254	2.2	0.9	0.4	168	177	137	117	75	45	37	16	10	11	3	5	3	1	805	3.45	0.34	462	550	0.90	1.00	0.89	0.16	0.40	0.90	0.73	0.42	59.4	8.1	208.9	27.0
255	2.2	0.9	0.5	218	262	203	133	71	46	31	27	9	8	3	2	1	1	1015	3.14	0.24	462	619	0.88	1.00	0.87	0.21	0.50	0.88	0.75	0.46	45.1	6.6	135.7	21.5
256	2.2	0.9	0.6	277	347	231	149	83	53	33	23	14	9	3	2	0	0	1224	3.01	0.22	462	708	0.88	1.00	0.86	0.24	0.60	0.88	0.76	0.43	39.1	4.0	109.4	27.2
257	2.2	0.9	0.7	364	417	262	161	70	53	16	14	9	2	3	1	1	0	1373	2.68	0.14	462	716	0.86	1.00	0.82	0.31	0.71	0.86	0.74	0.46	23.9	0.9	69.9	21.5
258	2.2	0.9	0.8	449	478	283	161	71	30	15	6	3	3	1	0	1	0	1501	2.44	0.09	462	745	0.85	1.00	0.79	0.36	0.80	0.85	0.73	0.47	12.8	12.8	46.5	18.4
259	2.2	0.9	0.9	519	552	313	152	43	25	11	4	2	0	1	0	0	0	1622	2.26	0.06	462	769	0.84	1.00	0.76	0.43	0.90	0.84	0.73	0.48	4.4	4.4	29.0	17.0
260	2.2	0.9	1	595	654	346	129	31	6	0	0	0	0	0	0	0	0	1761	2.07	0.02	462	797	0.82	1.00	0.74	0.52	1.00	0.82	0.74	0.52	-4.3	-4.3	11.3	11.3

261	2.2	0.95	0.1	10	27	17	20	18	12	10	9	9	2	3	3	1	0	141	4.84	0.91	455	123	0.96	0.13	0.87	0.48	0.10	0.96	0.86	0.45	120.0	19.8	27.7	32.7
262	2.2	0.95	0.2	61	77	65	40	39	39	34	21	14	12	14	5	1	0	422	4.45	0.74	455	326	0.97	0.25	0.78	0.34	0.20	0.97	0.73	0.43	102.3	6.6	47.9	21.7
263	2.2	0.95	0.3	105	163	145	99	67	56	43	19	17	15	17	7	4	1	758	3.99	0.48	455	505	0.95	1.00	0.93	0.13	0.30	0.95	0.76	0.49	81.4	12.0	263.0	15.9
264	2.2	0.95	0.4	250	230	203	152	107	67	49	28	36	12	8	8	5	0	1155	3.57	0.69	455	671	0.95	1.00	0.87	0.16	0.41	0.95	0.68	0.42	62.3	-12.2	187.6	18.4
265	2.2	0.95	0.5	327	391	285	186	116	83	50	42	24	12	6	1	2	0	1525	3.22	0.28	455	780	0.94	1.00	0.86	0.23	0.50	0.94	0.71	0.49	46.4	3.5	117.4	11.2
266	2.2	0.95	0.6	337	491	330	208	140	80	57	26	22	11	4	2	2	0	1710	3.12	0.25	455	799	0.93	1.00	0.86	0.26	0.59	0.93	0.76	0.48	41.8	4.5	95.8	17.9
267	2.2	0.95	0.7	479	570	438	220	145	78	37	18	16	6	1	1	0	1	2010	2.81	0.18	455	834	0.92	1.00	0.82	0.31	0.69	0.92	0.74	0.47	27.7	1.5	66.1	16.7
268	2.2	0.95	0.8	653	757	505	260	137	60	31	10	8	1	3	0	0	0	2425	2.55	0.11	455	892	0.92	1.00	0.79	0.37	0.79	0.92	0.73	0.49	15.9	-1.3	41.6	13.7
269	2.2	0.95	0.9	744	833	535	262	86	41	13	6	4	0	1	1	2	0	2528	2.36	0.06	455	896	0.90	1.00	0.76	0.43	0.89	0.90	0.73	0.49	7.3	7.3	26.4	13.7
270	2.2	0.95	1	879	955	604	224	58	7	2	0	0	0	0	0	0	0	2729	2.14	0.03	455	900	0.89	1.00	0.73	0.52	1.00	0.89	0.73	0.52	-2.7	-2.7	9.7	9.7
271	2.2	1	0.1	21	22	25	21	16	13	20	8	8	3	4	4	3	0	168	4.88	0.60	449	136	1.00	1.00	0.97	0.05	0.10	1.00	0.62	0.56	119.2	30.1	873.4	-4.7
272	2.2	1	0.2	74	110	79	68	59	51	43	33	20	13	14	11	6	1	582	4.57	0.76	449	398	1.00	0.19	0.69	0.62	0.20	1.00	0.71	0.56	105.3	9.0	-4.8	1.6
273	2.2	1	0.3	177	197	214	151	103	91	57	53	42	26	13	10	8	2	1144	4.14	0.36	449	643	1.00	1.00	0.91	0.14	0.31	1.00	0.69	0.51	86.0	24.4	233.7	5.9
274	2.2	1	0.4	338	369	309	236	159	103	82	49	38	32	22	10	11	3	1761	3.71	0.41	449	809	1.00	1.00	0.87	0.19	0.40	1.00	0.66	0.53	66.7	5.7	148.6	1.3
275	2.2	1	0.5	451	570	469	290	178	161	94	54	32	20	16	12	7	1	2355	3.4	0.32	449	906	1.00	1.00	0.86	0.25	0.50	1.00	0.70	0.56	52.7	4.9	100.4	0.6
276	2.2	1	0.6	671	814	585	409	195	143	84	51	23	17	8	4	3	1	3008	3.02	0.21	449	958	1.00	1.00	0.82	0.30	0.59	1.00	0.69	0.57	35.7	3.1	66.1	-0.5
277	2.2	1	0.7	939	1107	752	451	224	123	85	39	21	9	3	1	0	1	3755	2.75	0.16	449	987	1.00	1.00	0.79	0.37	0.71	1.00	0.69	0.56	23.5	-0.3	41.8	0.8
278	2.2	1	0.8	1221	1391	915	451	219	115	44	23	4	9	3	0	0	0	4395	2.5	0.10	449	998	1.00	1.00	0.76	0.43	0.80	1.00	0.69	0.56	12.3	-3.4	24.3	0.2
279	2.2	1	0.9	1517	1733	1077	465	172	75	25	9	7	1	0	0	0	0	5081	2.3	0.06	449	1000	1.00	1.00	0.73	0.50	0.90	1.00	0.70	0.57	3.3	3.3	10.9	0.5
280	2.2	1	1	1865	2098	1186	448	113	25	3	0	0	0	0	0	0	0	5738	2.12	0.03	449	1000	1.00	1.00	0.70	0.57	1.00	1.00	0.70	0.57	-4.8	-4.8	0.1	0.1
281	2.4	0.7	0.1	8	9	5	3	2	1	0	1	0	0	0	0	0	0	29	2.66	0.16	419	29	0.65	1.00	0.97	0.05	0.09	0.65	0.71	0.62	11.5	-11.1	746.9	-10.0
282	2.4	0.7	0.2	34	24	17	11	8	6	5	1	0	0	0	0	0	0	106	2.79	0.41	419	100	0.73	1.00	0.94	0.07	0.19	0.73	0.70	0.36	16.9	-25.7	522.7	23.3
283	2.4	0.7	0.3	35	54	28	8	12	13	5	7	0	1	0	0	0	0	163	3.06	0.30	419	151	0.74	0.20	0.77	0.55	0.29	0.74	0.84	0.35	28.3	-13.2	1.3	41.7
284	2.4	0.7	0.4	79	90	45	25	13	10	4	2	3	0	0	0	0	0	271	2.55	0.13	419	244	0.69	0.36	0.74	0.54	0.41	0.69	0.77	0.46	6.9	-13.4	-0.6	11.3
285	2.4	0.7	0.5	98	113	60	30	20	8	3	2	2	1	0	0	0	0	337	2.48	0.12	419	299	0.68	1.00	0.89	0.21	0.50	0.68	0.78	0.46	4.0	-13.1	117.6	13.2
286	2.4	0.7	0.6	121	137	86	33	19	6	4	2	1	0	0	0	0	0	409	2.37	0.08	419	340	0.68	1.00	0.87	0.27	0.60	0.68	0.78	0.46	-0.7	-0.7	79.2	14.1
287	2.4	0.7	0.7	132	147	71	40	21	5	2	1	0	1	0	0	0	0	420	2.3	0.08	419	348	0.67	1.00	0.86	0.28	0.70	0.67	0.80	0.42	-3.6	-3.6	70.6	22.2
288	2.4	0.7	0.8	159	163	97	41	15	2	0	0	0	0	0	0	0	0	477	2.15	0.04	419	395	0.65	1.00	0.83	0.35	0.80	0.65	0.79	0.44	-9.9	-9.9	41.9	17.6
289	2.4	0.7	0.9	205	207	119	25	21	4	2	0	0	0	0	0	0	0	583	2.09	0.05	419	464	0.67	1.00	0.81	0.39	0.90	0.67	0.79	0.44	-12.4	-12.4	28.3	17.5
290	2.4	0.7	1	205	237	99	38	5	1	0	0	0	0	0	0	0	0	585	1.98	0.01	419	457	0.65	1.00	0.80	0.48	1.00	0.65	0.80	0.48	-17.0	-17.0	12.4	12.4

291	2.4	0.75	0.1	10	8	14	6	1	1	0	0	1	0	0	0	0	0	41	2.73	0.28	417	39	0.66	1.00	0.97	0.07	0.10	0.66	0.68	0.56	13.9	-11.4	559.9	-7.5
292	2.4	0.75	0.2	25	32	27	16	8	7	4	2	0	1	2	1	0	0	125	3.23	0.25	417	115	0.76	1.00	0.96	0.08	0.21	0.76	0.81	0.40	34.7	-2.4	464.2	25.7
293	2.4	0.75	0.3	48	69	46	33	17	11	7	7	1	1	2	1	0	0	243	3.15	0.24	417	220	0.77	1.00	0.94	0.12	0.31	0.77	0.81	0.42	31.4	-3.0	277.7	22.5
294	2.4	0.75	0.4	76	97	66	37	14	12	6	2	5	3	1	0	0	0	319	2.83	0.16	417	274	0.74	1.00	0.92	0.16	0.40	0.74	0.79	0.44	18.0	-6.9	177.6	16.9
295	2.4	0.75	0.5	116	110	72	48	18	11	6	5	7	1	1	1	0	0	396	2.72	0.33	417	330	0.75	1.00	0.89	0.17	0.49	0.75	0.77	0.36	13.4	-22.7	161.9	30.5
296	2.4	0.75	0.6	144	156	100	28	26	16	3	7	2	3	0	0	0	0	485	2.51	0.13	417	395	0.72	1.00	0.87	0.24	0.60	0.72	0.77	0.41	4.7	-15.4	95.1	20.0
297	2.4	0.75	0.7	183	180	119	57	26	6	4	3	1	1	0	0	0	0	580	2.35	0.20	417	454	0.72	1.00	0.84	0.30	0.70	0.72	0.77	0.43	-2.0	-22.1	60.1	15.7
298	2.4	0.75	0.8	205	204	118	60	22	7	2	2	1	0	0	0	0	0	621	2.25	0.18	417	470	0.71	1.00	0.82	0.34	0.80	0.71	0.78	0.43	-6.2	-23.5	43.9	17.6
299	2.4	0.75	0.9	219	254	140	56	15	3	0	0	0	0	0	0	0	0	687	2.13	0.03	417	526	0.69	1.00	0.81	0.42	0.90	0.69	0.79	0.48	-11.2	-11.2	21.6	10.9
300	2.4	0.75	1	262	264	156	51	14	2	0	0	0	0	0	0	0	0	749	2.06	0.02	417	539	0.70	1.00	0.79	0.44	1.00	0.70	0.79	0.44	-14.1	-14.1	15.5	15.5
301	2.4	0.8	0.1	5	17	13	8	5	5	4	3	1	1	0	0	0	0	62	3.81	0.44	416	58	0.80	1.00	0.99	0.05	0.11	0.80	0.88	0.53	58.7	6.5	700.9	11.2
302	2.4	0.8	0.2	38	41	38	21	21	11	4	0	1	5	0	2	1	0	183	3.35	0.33	416	171	0.80	1.00	0.95	0.09	0.21	0.80	0.74	0.44	39.5	-4.0	397.1	11.6
303	2.4	0.8	0.3	75	63	57	34	21	19	12	7	1	2	1	3	0	0	295	3.2	0.51	416	256	0.81	1.00	0.92	0.11	0.30	0.81	0.73	0.37	33.3	-20.6	298.4	23.0
304	2.4	0.8	0.4	94	100	85	49	31	18	9	6	5	2	1	1	0	0	401	3.01	0.22	416	329	0.79	1.00	0.91	0.15	0.40	0.79	0.77	0.40	25.4	-5.4	190.7	21.3
305	2.4	0.8	0.5	106	136	106	56	35	23	14	5	4	1	3	1	1	0	491	3	0.22	416	402	0.79	1.00	0.91	0.18	0.49	0.79	0.81	0.39	24.9	-5.2	150.9	27.7
306	2.4	0.8	0.6	165	190	127	63	29	21	9	6	3	3	2	0	0	0	618	2.65	0.13	416	481	0.77	1.00	0.87	0.24	0.61	0.77	0.78	0.42	10.4	-10.0	90.2	19.0
307	2.4	0.8	0.7	218	223	167	81	28	17	5	3	2	4	1	0	0	0	749	2.48	0.09	416	527	0.76	1.00	0.84	0.30	0.70	0.76	0.76	0.44	3.3	3.3	58.7	14.4
308	2.4	0.8	0.8	215	288	145	73	27	10	6	0	2	0	0	0	0	0	766	2.31	0.06	416	547	0.74	1.00	0.83	0.38	0.80	0.74	0.79	0.49	-3.8	-3.8	34.2	9.5
309	2.4	0.8	0.9	259	321	172	65	16	5	4	1	0	0	0	0	0	0	843	2.16	0.03	416	581	0.73	1.00	0.81	0.44	0.90	0.73	0.78	0.50	-10.0	-10.0	18.0	7.5
310	2.4	0.8	1	277	345	197	74	22	3	0	0	0	0	0	0	0	0	918	2.16	0.03	416	600	0.74	1.00	0.80	0.46	1.00	0.74	0.80	0.46	-10.0	-10.0	14.9	14.9
311	2.4	0.85	0.1	13	12	13	8	2	4	3	3	3	2	1	1	0	0	65	3.95	0.71	416	61	0.91	0.03	0.04	0.08	0.10	0.91	0.71	0.36	64.5	-16.7	-36.3	23.5
312	2.4	0.85	0.2	31	46	26	30	14	19	6	9	6	6	1	0	0	0	194	3.84	0.46	416	173	0.87	0.11	0.64	1.00	0.20	0.87	0.80	0.42	59.9	0.5	-31.6	21.2
313	2.4	0.85	0.3	55	86	71	54	30	22	20	9	5	2	6	1	2	0	363	3.63	0.36	416	293	0.85	1.00	0.95	0.11	0.30	0.85	0.82	0.41	51.2	2.7	286.1	24.4
314	2.4	0.85	0.4	97	132	101	77	49	29	10	13	3	3	1	0	1	1	517	3.21	0.27	416	415	0.83	1.00	0.92	0.17	0.39	0.83	0.79	0.46	33.7	-0.6	168.5	12.8
315	2.4	0.85	0.5	147	180	140	84	67	34	22	5	7	4	4	1	0	1	696	3.12	0.26	416	518	0.84	1.00	0.89	0.19	0.50	0.84	0.79	0.41	29.9	-4.6	135.1	22.4
316	2.4	0.85	0.6	173	209	156	103	57	26	22	10	6	4	1	0	0	1	768	2.95	0.20	416	543	0.82	1.00	0.88	0.22	0.60	0.82	0.80	0.39	22.8	-4.4	106.8	26.7
317	2.4	0.85	0.7	210	299	207	116	55	25	12	11	4	1	1	0	0	0	941	2.71	0.13	416	612	0.81	1.00	0.87	0.30	0.70	0.81	0.81	0.44	12.8	-5.3	63.2	18.1
318	2.4	0.85	0.8	245	325	225	108	40	18	12	4	5	2	0	0	1	0	985	2.54	0.09	416	633	0.80	1.00	0.84	0.34	0.80	0.80	0.80	0.43	5.8	5.8	46.5	19.9
319	2.4	0.85	0.9	289	369	243	94	49	17	5	4	0	0	1	0	0	0	1071	2.39	0.08	416	656	0.79	1.00	0.82	0.39	0.90	0.79	0.80	0.43	-0.5	-0.5	30.6	18.7
320	2.4	0.85	1	349	452	253	108	35	11	0	0	0	0	0	0	0	0	1208	2.22	0.04	416	692	0.78	1.00	0.80	0.46	1.00	0.78	0.80	0.46	-7.6	-7.6	14.2	14.2

321	2.4	0.9	0.1	9	17	9	13	14	7	6	4	4	2	0	0	0	0	85	4.28	0.77	417	74	0.89	1.00	0.98	0.05	0.10	0.89	0.81	0.56	78.5	6.0	825.5	1.4
322	2.4	0.9	0.2	33	67	47	32	32	23	16	14	10	5	2	3	0	0	284	4.07	0.59	417	238	0.90	0.35	0.89	0.27	0.20	0.90	0.81	0.51	69.8	1.6	78.8	7.8
323	2.4	0.9	0.3	78	107	91	71	30	30	26	13	12	9	5	4	5	2	483	3.85	0.39	417	366	0.91	0.97	0.93	0.12	0.30	0.91	0.77	0.42	60.6	2.1	274.4	18.3
324	2.4	0.9	0.4	121	189	108	92	69	28	33	15	13	10	5	1	2	0	686	3.45	0.35	417	488	0.89	0.30	0.71	0.66	0.39	0.89	0.78	0.47	43.9	-2.6	-13.0	11.4
325	2.4	0.9	0.5	163	232	187	120	91	47	29	15	18	7	2	3	0	0	914	3.3	0.30	417	610	0.88	1.00	0.90	0.20	0.51	0.88	0.80	0.42	37.7	-0.9	131.2	21.3
326	2.4	0.9	0.6	226	323	223	133	81	54	34	19	10	13	3	3	0	0	1122	3.1	0.24	417	670	0.88	1.00	0.88	0.23	0.61	0.88	0.80	0.41	29.3	-4.5	99.6	23.3
327	2.4	0.9	0.7	260	379	271	153	82	42	28	10	5	7	0	2	0	0	1239	2.84	0.17	417	699	0.86	1.00	0.86	0.29	0.70	0.86	0.80	0.44	18.5	-4.1	65.1	18.2
328	2.4	0.9	0.8	341	469	306	171	75	45	13	11	8	1	0	0	0	0	1440	2.63	0.12	417	757	0.86	1.00	0.84	0.34	0.80	0.86	0.79	0.44	9.7	-6.6	43.0	16.9
329	2.4	0.9	0.9	387	548	350	168	66	24	11	6	1	0	1	0	0	0	1562	2.45	0.08	417	777	0.84	1.00	0.82	0.41	0.90	0.84	0.80	0.46	2.2	2.2	26.0	14.8
330	2.4	0.9	1	469	598	392	137	51	18	3	0	0	0	0	0	0	0	1668	2.26	0.05	417	792	0.83	1.00	0.79	0.47	1.00	0.83	0.79	0.47	-5.7	-5.7	12.0	12.0
331	2.4	0.95	0.1	10	25	13	21	8	10	6	8	6	3	4	2	1	0	117	4.74	0.70	418	105	0.96	0.07	0.74	1.00	0.10	0.96	0.83	0.75	97.9	10.7	-27.4	-12.1
332	2.4	0.95	0.2	61	60	57	41	46	27	24	23	14	12	9	5	1	3	383	4.49	1.15	418	302	0.97	1.00	0.94	0.07	0.21	0.97	0.73	0.34	87.5	-17.4	506.4	31.0
333	2.4	0.95	0.3	89	121	114	90	73	41	32	28	17	7	14	3	2	2	633	4.04	0.53	418	443	0.94	1.00	0.93	0.12	0.29	0.94	0.76	0.45	68.7	4.2	268.2	11.9
334	2.4	0.95	0.4	166	210	166	117	87	65	56	45	16	17	12	6	3	0	966	3.82	0.47	418	612	0.95	0.83	0.89	0.18	0.41	0.95	0.77	0.39	59.5	-1.7	148.6	24.5
335	2.4	0.95	0.5	252	315	237	192	117	85	48	37	22	8	10	7	1	1	1332	3.44	0.34	418	729	0.94	1.00	0.88	0.20	0.48	0.94	0.75	0.45	43.6	-1.0	126.4	12.0
336	2.4	0.95	0.6	342	413	311	212	116	86	51	29	19	11	6	4	5	1	1606	3.18	0.26	418	771	0.93	1.00	0.85	0.24	0.60	0.93	0.75	0.43	32.8	-3.7	89.5	14.7
337	2.4	0.95	0.7	384	482	393	239	118	94	39	35	20	6	5	2	1	2	1820	3.05	0.21	418	815	0.93	1.00	0.85	0.27	0.69	0.93	0.78	0.41	27.4	-2.9	73.6	21.9
338	2.4	0.95	0.8	523	606	477	256	131	73	32	13	8	2	2	1	1	0	2125	2.71	0.14	418	870	0.92	1.00	0.81	0.33	0.80	0.92	0.76	0.43	13.2	-6.1	43.2	16.0
339	2.4	0.95	0.9	630	756	532	260	114	50	18	8	4	0	0	0	0	0	2372	2.48	0.09	418	867	0.91	1.00	0.79	0.40	0.90	0.91	0.77	0.45	3.6	3.6	24.2	13.1
340	2.4	0.95	1	755	898	614	258	88	21	2	1	0	0	0	0	0	0	2637	2.28	0.04	418	890	0.90	1.00	0.77	0.48	1.00	0.90	0.77	0.48	-4.8	-4.8	9.1	9.1
341	2.4	1	0.1	13	14	23	16	9	9	11	9	10	7	11	6	1	1	140	5.73	0.87	417	122	1.00	1.00	0.98	0.05	0.09	1.00	0.68	0.58	138.9	21.7	815.5	-9.8
342	2.4	1	0.2	64	92	72	65	47	38	22	30	22	9	17	8	8	1	495	4.59	0.69	417	361	1.00	0.19	0.71	0.54	0.20	1.00	0.73	0.50	91.4	3.0	-2.9	2.2
343	2.4	1	0.3	141	201	160	119	96	84	56	52	30	34	17	14	9	1	1014	4.33	0.63	417	603	1.00	0.84	0.90	0.16	0.30	1.00	0.73	0.52	80.5	0.6	177.3	0.7
344	2.4	1	0.4	231	326	278	183	152	116	81	57	45	28	14	7	9	1	1528	3.91	0.50	417	754	1.00	1.00	0.90	0.18	0.40	1.00	0.73	0.52	63.0	0.3	152.5	1.2
345	2.4	1	0.5	355	485	414	283	211	149	88	59	39	24	16	10	3	1	2137	3.59	0.39	417	888	1.00	1.00	0.88	0.23	0.50	1.00	0.74	0.50	49.7	0.3	104.1	3.1
346	2.4	1	0.6	544	674	583	349	227	156	84	47	38	30	17	4	2	2	2757	3.27	0.28	417	939	1.00	1.00	0.84	0.28	0.60	1.00	0.73	0.51	36.3	-2.3	67.6	1.5
347	2.4	1	0.7	697	934	752	414	274	130	80	43	25	12	4	6	1	2	3374	2.97	0.21	417	976	1.00	1.00	0.83	0.34	0.70	1.00	0.74	0.52	23.8	-3.5	44.0	1.7
348	2.4	1	0.8	932	1237	911	480	237	116	56	32	11	7	2	1	1	0	4023	2.69	0.13	417	995	1.00	1.00	0.80	0.40	0.80	1.00	0.75	0.52	12.2	-5.6	24.9	1.1
349	2.4	1	0.9	1199	1526	1072	488	206	91	36	20	3	1	0	0	0	0	4642	2.47	0.08	417	999	1.00	1.00	0.77	0.46	0.90	1.00	0.74	0.52	3.0	3.0	11.5	1.0
350	2.4	1	1	1464	1839	1236	510	148	45	10	2	0	0	0	0	0	0	5254	2.28	0.04	417	1000	1.00	1.00	0.75	0.53	1.00	1.00	0.75	0.53	-4.9	-4.9	0.8	0.8

351	2.6	0.7	0.1	3	7	2	4	1	2	1	0	0	1	0	0	0	0	21	3.48	0.31	385	21	0.76	0.04	0.80	1.00	0.10	0.76	0.92	0.29	34.1	-6.0	-30.6	62.8
352	2.6	0.7	0.2	17	27	17	11	4	2	2	1	1	2	0	0	0	0	84	2.96	0.17	385	80	0.70	0.47	0.93	0.17	0.20	0.70	0.85	0.41	14.1	-11.1	153.0	17.8
353	2.6	0.7	0.3	48	49	30	20	11	8	5	3	0	1	0	0	0	0	175	2.79	0.19	385	165	0.72	1.00	0.93	0.11	0.30	0.72	0.78	0.38	7.6	-17.1	272.7	17.5
354	2.6	0.7	0.4	48	60	44	21	10	8	5	4	0	0	0	1	0	0	201	2.79	0.16	385	187	0.70	1.00	0.94	0.13	0.40	0.70	0.84	0.34	7.6	-14.4	218.1	34.5
355	2.6	0.7	0.5	85	82	69	31	24	5	2	1	1	0	0	0	0	1	301	2.57	0.28	385	267	0.69	1.00	0.90	0.18	0.50	0.69	0.80	0.37	-0.9	-25.5	130.6	21.9
356	2.6	0.7	0.6	105	94	76	32	21	4	4	3	0	0	1	0	0	0	340	2.47	0.24	385	299	0.68	1.00	0.88	0.20	0.60	0.68	0.81	0.34	-4.8	-27.0	108.2	30.3
357	2.6	0.7	0.7	141	114	85	40	17	9	6	2	0	1	0	0	0	0	415	2.39	0.22	385	345	0.69	1.00	0.86	0.22	0.70	0.69	0.79	0.33	-7.9	-29.3	85.3	31.9
358	2.6	0.7	0.8	127	149	80	34	17	6	1	1	1	0	0	0	0	0	416	2.27	0.07	385	354	0.66	1.00	0.86	0.30	0.80	0.66	0.83	0.38	-12.5	-12.5	49.5	22.7
359	2.6	0.7	0.9	149	172	99	45	12	7	2	1	1	0	0	0	0	0	488	2.26	0.05	385	408	0.67	1.00	0.85	0.33	0.91	0.67	0.84	0.36	-12.9	-12.9	38.9	27.5
360	2.6	0.7	1	184	220	111	45	15	0	0	0	0	0	0	0	0	0	575	2.11	0.03	385	454	0.66	1.00	0.82	0.42	1.00	0.66	0.82	0.42	-18.7	-18.7	14.6	14.6
361	2.6	0.75	0.1	5	9	8	2	4	2	0	0	0	0	0	0	0	0	30	2.9	0.25	381	29	0.65	1.00	0.98	0.06	0.10	0.65	0.83	0.49	10.5	-12.7	586.5	2.1
362	2.6	0.75	0.2	17	27	24	13	7	3	2	2	0	2	1	0	0	0	98	3.15	0.21	381	92	0.73	1.00	0.97	0.08	0.20	0.73	0.85	0.39	20.0	-8.3	420.5	20.6
363	2.6	0.75	0.3	36	61	25	21	11	6	6	5	1	0	1	0	1	0	174	3.01	0.22	381	157	0.75	0.16	0.70	0.87	0.29	0.75	0.83	0.45	14.6	-15.6	-31.4	8.6
364	2.6	0.75	0.4	63	98	57	38	23	10	9	5	4	0	0	0	0	0	307	2.92	0.20	381	267	0.74	1.00	0.93	0.16	0.40	0.74	0.82	0.45	11.2	-13.4	155.3	8.0
365	2.6	0.75	0.5	88	99	65	44	28	13	7	0	1	1	0	0	0	0	346	2.73	0.17	381	291	0.72	1.00	0.91	0.18	0.51	0.72	0.82	0.37	4.0	-15.5	131.9	22.9
366	2.6	0.75	0.6	97	132	102	60	26	18	5	1	0	1	1	0	0	0	443	2.73	0.13	381	364	0.73	1.00	0.91	0.22	0.60	0.73	0.84	0.38	4.0	-11.7	92.2	22.1
367	2.6	0.75	0.7	109	171	98	56	17	16	8	2	3	1	0	0	0	0	481	2.62	0.11	381	398	0.72	1.00	0.90	0.26	0.70	0.72	0.85	0.38	-0.2	-15.0	70.9	24.0
368	2.6	0.75	0.8	144	204	135	56	25	12	8	4	1	1	0	0	0	0	590	2.52	0.09	381	458	0.73	1.00	0.88	0.30	0.81	0.73	0.84	0.38	-4.0	-4.0	49.5	23.2
369	2.6	0.75	0.9	168	221	144	58	19	10	2	1	1	1	0	0	0	0	625	2.35	0.06	381	477	0.71	1.00	0.86	0.35	0.90	0.71	0.84	0.39	-10.5	-10.5	31.5	20.1
370	2.6	0.75	1	161	246	148	57	15	3	1	0	0	0	0	0	0	0	631	2.26	0.03	381	484	0.70	1.00	0.86	0.41	1.00	0.70	0.86	0.41	-13.9	-13.9	17.8	17.8
371	2.6	0.8	0.1	6	11	6	4	2	2	1	1	2	0	1	0	0	0	36	3.56	0.33	386	36	0.80	0.06	0.73	0.74	0.09	0.80	0.82	0.49	37.5	-11.3	-23.3	2.5
372	2.6	0.8	0.2	22	39	32	27	16	10	1	3	2	1	1	1	0	0	155	3.39	0.29	386	143	0.78	1.00	0.97	0.10	0.20	0.78	0.83	0.49	31.0	-2.1	330.9	3.4
373	2.6	0.8	0.3	57	59	59	36	19	17	13	6	4	3	1	0	0	0	274	3.32	0.19	386	238	0.81	1.00	0.94	0.11	0.30	0.81	0.78	0.38	28.3	-0.7	274.2	19.2
374	2.6	0.8	0.4	82	100	93	46	23	21	8	11	4	1	0	0	0	0	389	3.02	0.21	386	326	0.78	1.00	0.92	0.16	0.40	0.78	0.79	0.42	16.7	-10.3	158.9	11.7
375	2.6	0.8	0.5	114	133	101	74	35	20	9	6	6	2	1	0	0	0	501	2.93	0.19	386	417	0.79	1.00	0.90	0.19	0.50	0.79	0.80	0.40	13.2	-10.4	123.4	16.5
376	2.6	0.8	0.6	143	148	124	64	36	20	12	7	4	3	3	0	0	0	564	2.85	0.18	386	429	0.78	1.00	0.88	0.20	0.59	0.78	0.80	0.35	10.1	-13.9	109.2	27.3
377	2.6	0.8	0.7	171	189	134	81	31	31	6	4	0	0	1	0	0	0	648	2.62	0.13	386	488	0.76	1.00	0.86	0.26	0.71	0.76	0.81	0.37	1.2	-14.3	68.3	22.0
378	2.6	0.8	0.8	194	220	148	78	32	13	8	2	3	2	0	0	0	0	700	2.5	0.09	386	517	0.75	1.00	0.85	0.30	0.80	0.75	0.81	0.38	-3.4	-3.4	48.8	21.1
379	2.6	0.8	0.9	217	280	156	88	35	18	8	2	1	0	0	0	0	0	805	2.44	0.09	386	569	0.76	1.00	0.84	0.34	0.90	0.76	0.82	0.38	-5.7	-5.7	34.4	21.7
380	2.6	0.8	1	260	299	181	91	29	13	2	0	0	0	0	0	0	0	875	2.29	0.05	386	601	0.75	1.00	0.82	0.39	1.00	0.75	0.82	0.39	-11.5	-11.5	19.9	19.9

381	2.6	0.85	0.1	9	13	14	7	6	9	1	3	1	2	1	0	1	0	67	4.07	0.37	383	63	0.86	1.00	0.98	0.04	0.10	0.86	0.78	0.45	55.9	5.6	809.9	4.5
382	2.6	0.85	0.2	26	39	28	22	16	12	13	4	3	3	2	1	0	0	169	3.8	0.47	383	154	0.85	1.00	0.96	0.07	0.20	0.85	0.83	0.36	45.6	-8.1	485.1	25.2
383	2.6	0.85	0.3	57	79	58	46	24	20	17	10	4	3	4	3	1	1	327	3.62	0.36	383	288	0.85	0.62	0.91	0.17	0.31	0.85	0.81	0.36	38.7	-8.5	147.9	24.7
384	2.6	0.85	0.4	85	96	83	62	38	25	16	14	8	5	6	3	0	0	441	3.54	0.35	383	360	0.86	1.00	0.93	0.12	0.39	0.86	0.81	0.32	35.6	-9.0	241.1	35.4
385	2.6	0.85	0.5	110	180	122	94	46	33	15	22	9	8	1	1	0	0	641	3.28	0.27	383	474	0.84	1.00	0.92	0.18	0.49	0.84	0.83	0.40	25.7	-8.2	133.0	18.9
386	2.6	0.85	0.6	140	210	154	76	53	28	20	6	8	2	0	1	0	0	698	2.94	0.20	383	506	0.81	1.00	0.90	0.23	0.60	0.81	0.83	0.40	12.6	-12.4	87.3	17.2
387	2.6	0.85	0.7	166	280	227	96	61	28	13	9	5	5	1	0	0	0	891	2.84	0.16	383	593	0.82	1.00	0.89	0.28	0.70	0.82	0.84	0.41	8.8	-10.8	58.9	16.0
388	2.6	0.85	0.8	195	305	223	101	52	30	14	8	6	0	0	0	0	1	935	2.73	0.13	383	620	0.81	1.00	0.87	0.30	0.80	0.81	0.84	0.39	4.6	-12.7	48.8	21.8
389	2.6	0.85	0.9	265	355	252	126	54	24	8	3	0	0	0	0	0	0	1087	2.51	0.09	383	682	0.80	1.00	0.84	0.36	0.91	0.80	0.82	0.40	-3.8	-3.8	27.8	17.0
390	2.6	0.85	1	273	381	274	110	39	14	5	0	0	0	0	0	0	0	1096	2.38	0.06	383	684	0.79	1.00	0.83	0.41	1.00	0.79	0.83	0.41	-8.8	-8.8	16.5	16.5
391	2.6	0.9	0.1	7	14	11	3	8	5	4	2	0	2	0	0	0	0	56	3.82	0.60	387	52	0.83	1.00	0.98	0.05	0.09	0.83	0.79	0.56	48.0	-11.5	718.9	-6.6
392	2.6	0.9	0.2	26	42	43	31	18	15	18	12	8	8	4	1	0	1	227	4.35	0.42	387	202	0.91	1.00	0.97	0.07	0.20	0.91	0.84	0.35	68.5	9.7	511.7	30.9
393	2.6	0.9	0.3	62	101	78	56	51	35	19	15	14	5	5	5	0	0	446	3.88	0.50	387	359	0.90	1.00	0.95	0.11	0.30	0.90	0.82	0.41	50.3	-5.8	261.8	15.0
394	2.6	0.9	0.4	91	134	119	96	67	47	31	19	16	10	9	4	0	0	643	3.85	0.46	387	470	0.91	1.00	0.93	0.13	0.40	0.91	0.83	0.35	49.1	-3.2	214.9	30.1
395	2.6	0.9	0.5	137	193	168	124	85	46	30	15	11	6	6	1	1	0	823	3.41	0.32	387	560	0.88	1.00	0.91	0.18	0.49	0.88	0.82	0.39	32.1	-5.2	130.2	18.8
396	2.6	0.9	0.6	137	288	219	132	79	44	34	30	14	5	2	3	0	0	987	3.31	0.27	387	631	0.88	1.00	0.92	0.22	0.59	0.88	0.86	0.39	28.2	-5.3	100.2	23.6
397	2.6	0.9	0.7	207	316	258	153	87	51	28	11	7	6	4	0	1	0	1129	3.04	0.21	387	668	0.87	1.00	0.89	0.26	0.71	0.87	0.84	0.38	17.8	-7.7	71.5	24.9
398	2.6	0.9	0.8	246	414	298	175	89	47	25	18	2	5	2	0	0	0	1321	2.88	0.17	387	728	0.87	1.00	0.88	0.30	0.80	0.87	0.84	0.39	11.6	-8.8	51.0	22.3
399	2.6	0.9	0.9	306	482	356	178	73	26	12	3	5	0	0	0	0	0	1441	2.58	0.09	387	753	0.85	1.00	0.85	0.38	0.90	0.85	0.83	0.42	-0.1	-0.1	25.9	15.2
400	2.6	0.9	1	341	528	394	176	69	19	5	0	0	0	0	0	0	0	1532	2.47	0.06	387	765	0.84	1.00	0.84	0.42	1.00	0.84	0.84	0.42	-4.3	-4.3	16.1	16.1
401	2.6	0.95	0.1	11	27	15	10	11	2	9	5	7	5	7	4	1	0	114	5.01	0.81	390	101	0.98	0.08	0.74	0.70	0.10	0.98	0.83	0.39	95.5	-7.1	-19.9	23.1
402	2.6	0.95	0.2	35	50	50	34	25	23	22	18	14	12	4	1	5	1	294	4.64	0.52	390	243	0.96	1.00	0.96	0.07	0.19	0.96	0.79	0.38	81.1	9.8	510.0	19.4
403	2.6	0.95	0.3	69	108	96	76	57	52	43	26	24	19	6	5	2	2	585	4.39	0.68	390	435	0.96	1.00	0.95	0.10	0.30	0.96	0.82	0.36	71.3	-2.0	313.9	27.4
404	2.6	0.95	0.4	108	201	183	130	85	68	35	32	17	8	12	3	2	0	884	3.78	0.42	390	560	0.93	1.00	0.93	0.17	0.40	0.93	0.82	0.46	47.5	-0.9	156.3	8.8
405	2.6	0.95	0.5	188	257	252	162	118	81	55	41	29	9	10	1	7	0	1210	3.69	0.41	390	709	0.95	1.00	0.91	0.18	0.49	0.95	0.80	0.39	44.0	-4.3	136.8	20.3
406	2.6	0.95	0.6	275	354	345	201	143	90	53	34	17	12	6	3	2	0	1535	3.34	0.31	390	777	0.94	1.00	0.88	0.23	0.60	0.94	0.79	0.39	30.3	-6.3	91.5	18.1
407	2.6	0.95	0.7	317	455	426	249	141	82	55	33	19	16	7	2	0	0	1802	3.21	0.25	390	827	0.94	1.00	0.88	0.26	0.69	0.94	0.82	0.39	25.3	-5.6	70.7	21.1
408	2.6	0.95	0.8	381	588	473	266	152	74	36	26	12	5	0	2	0	0	2015	2.92	0.18	390	839	0.93	1.00	0.86	0.31	0.79	0.93	0.82	0.41	13.9	-7.7	46.1	17.0
409	2.6	0.95	0.9	479	692	554	265	127	62	19	6	1	3	1	1	0	0	2210	2.64	0.11	390	871	0.91	1.00	0.83	0.38	0.90	0.91	0.81	0.43	3.0	-10.1	24.5	13.2
410	2.6	0.95	1	566	828	613	266	104	28	5	3	0	0	0	0	0	0	2413	2.43	0.06	390	866	0.90	1.00	0.81	0.45	1.00	0.90	0.81	0.45	-5.2	-5.2	10.1	10.1

411	2.6	1	0.1	9	15	19	19	14	11	10	3	3	6	2	2	2	0	115	4.88	0.32	384	98	0.95	1.00	0.98	0.05	0.10	0.95	0.81	0.41	87.2	35.8	734.1	14.5
412	2.6	1	0.2	51	83	66	67	52	35	27	27	19	20	13	6	6	4	476	4.79	0.78	384	337	1.00	1.00	0.95	0.08	0.21	1.00	0.77	0.49	83.8	-1.9	369.2	-1.4
413	2.6	1	0.3	111	178	132	113	94	62	48	35	37	24	17	18	8	4	881	4.44	0.65	384	560	1.00	0.32	0.79	0.43	0.30	1.00	0.78	0.45	70.4	-5.5	8.3	4.3
414	2.6	1	0.4	182	259	245	154	147	88	98	55	35	23	18	19	5	0	1328	4.12	0.58	384	718	1.00	1.00	0.91	0.16	0.40	1.00	0.77	0.46	58.1	-6.3	156.7	2.9
415	2.6	1	0.5	274	469	364	251	166	126	113	63	39	32	12	11	3	2	1925	3.74	0.42	384	851	1.00	1.00	0.90	0.21	0.50	1.00	0.79	0.48	43.5	-6.5	99.9	1.7
416	2.6	1	0.6	366	567	543	338	219	124	100	55	49	25	10	5	5	2	2408	3.49	0.33	384	933	1.00	1.00	0.88	0.26	0.59	1.00	0.79	0.47	33.9	-5.2	70.5	2.3
417	2.6	1	0.7	502	831	635	438	249	132	90	43	30	16	9	5	1	1	2982	3.17	0.24	384	970	1.00	1.00	0.87	0.31	0.69	1.00	0.80	0.48	21.6	-7.2	45.5	1.8
418	2.6	1	0.8	682	1032	836	498	266	115	78	42	13	12	2	3	1	0	3580	2.92	0.17	384	992	1.00	1.00	0.84	0.36	0.80	1.00	0.79	0.47	12.0	-8.8	27.8	2.6
419	2.6	1	0.9	939	1316	981	531	263	87	55	27	10	3	1	1	0	1	4215	2.67	0.12	384	999	1.00	1.00	0.81	0.42	0.91	1.00	0.78	0.48	2.4	-12.0	11.6	1.5
420	2.6	1	1	1125	1585	1151	565	247	55	24	3	0	0	0	0	0	0	4755	2.47	0.07	384	1000	1.00	1.00	0.79	0.48	1.00	1.00	0.79	0.48	-5.2	-5.2	1.2	1.2
421	2.8	0.7	0.1	5	6	1	0	4	1	2	0	0	0	0	0	0	0	19	3.16	0.58	357	18	0.75	0.03	0.56	0.92	0.10	0.75	0.86	0.21	12.8	-40.5	-42.7	80.7
422	2.8	0.7	0.2	27	22	11	10	7	5	2	2	0	1	0	0	0	0	87	2.86	0.45	357	78	0.73	0.08	0.40	1.00	0.21	0.73	0.77	0.28	2.1	-38.1	-50.2	32.4
423	2.8	0.7	0.3	27	51	27	16	6	3	2	2	0	1	0	0	0	1	136	2.76	0.12	357	128	0.67	0.41	0.90	0.33	0.31	0.67	0.86	0.45	-1.5	-19.1	33.1	4.4
424	2.8	0.7	0.4	38	58	32	22	8	10	3	5	0	0	0	1	0	0	177	2.89	0.18	357	168	0.70	0.37	0.86	0.34	0.40	0.70	0.88	0.30	3.2	-19.5	26.3	38.4
425	2.8	0.7	0.5	72	94	58	37	15	11	8	1	1	0	2	1	0	0	300	2.77	0.15	357	270	0.72	1.00	0.92	0.16	0.51	0.72	0.84	0.34	-1.1	-20.4	135.2	24.6
426	2.8	0.7	0.6	76	95	67	29	21	9	4	1	1	2	0	0	0	0	305	2.65	0.14	357	269	0.69	1.00	0.91	0.19	0.60	0.69	0.86	0.32	-5.4	-22.0	110.9	32.3
427	2.8	0.7	0.7	73	110	90	46	12	9	6	2	0	0	0	0	0	0	348	2.64	0.09	357	313	0.69	1.00	0.92	0.23	0.70	0.69	0.88	0.32	-5.7	-5.7	81.3	33.2
428	2.8	0.7	0.8	104	144	87	50	15	10	1	1	1	0	0	0	0	0	413	2.45	0.07	357	353	0.68	1.00	0.89	0.27	0.80	0.68	0.86	0.35	-12.5	-12.5	51.5	24.8
429	2.8	0.7	0.9	140	162	86	42	10	8	3	1	0	0	0	0	0	0	452	2.25	0.05	357	369	0.66	1.00	0.85	0.32	0.89	0.66	0.84	0.36	-19.7	-19.7	32.0	18.8
430	2.8	0.7	1	150	179	117	30	19	4	0	1	0	0	0	0	0	0	500	2.21	0.05	357	422	0.66	1.00	0.85	0.36	1.00	0.66	0.85	0.36	-21.1	-21.1	19.9	19.9
431	2.8	0.75	0.1	3	9	5	4	2	5	0	1	0	0	0	0	0	0	29	3.45	0.38	358	28	0.74	1.00	0.99	0.05	0.09	0.74	0.89	0.56	23.6	-11.3	703.8	-7.9
432	2.8	0.75	0.2	15	28	16	11	8	7	4	1	0	0	1	1	0	0	92	3.3	0.31	358	86	0.76	0.21	0.88	0.35	0.20	0.76	0.87	0.37	18.3	-16.6	25.6	19.3
433	2.8	0.75	0.3	28	48	27	23	9	8	6	1	1	1	1	0	0	0	153	3.07	0.21	358	140	0.73	0.59	0.93	0.18	0.29	0.73	0.86	0.39	10.0	-15.5	121.9	15.2
434	2.8	0.75	0.4	50	46	50	35	16	8	6	3	3	2	4	0	1	0	224	3.26	0.53	358	202	0.78	1.00	0.94	0.09	0.40	0.78	0.86	0.23	16.8	-28.3	318.6	70.8
435	2.8	0.75	0.5	61	120	67	44	15	13	12	2	2	2	0	0	0	0	338	2.87	0.16	358	302	0.73	0.86	0.92	0.22	0.51	0.73	0.87	0.40	2.8	-16.8	83.5	14.9
436	2.8	0.75	0.6	95	131	98	48	31	9	5	5	3	0	1	0	0	0	426	2.73	0.15	358	355	0.73	1.00	0.91	0.22	0.60	0.73	0.84	0.37	-2.2	-18.8	85.7	16.7
437	2.8	0.75	0.7	105	161	118	51	20	9	9	5	1	0	0	0	0	0	479	2.61	0.10	358	379	0.72	1.00	0.90	0.26	0.71	0.72	0.86	0.38	-6.5	-18.9	57.6	17.2
438	2.8	0.75	0.8	114	171	97	55	24	10	4	3	1	0	0	0	0	0	479	2.52	0.10	358	393	0.70	1.00	0.89	0.28	0.79	0.70	0.86	0.36	-9.7	-9.7	50.4	22.0
439	2.8	0.75	0.9	133	193	125	60	22	7	6	3	0	0	0	0	0	0	549	2.46	0.07	358	443	0.71	1.00	0.88	0.31	0.90	0.71	0.86	0.35	-11.9	-11.9	36.7	24.2
440	2.8	0.75	1	174	226	134	83	22	6	1	0	0	0	0	0	0	0	646	2.34	0.05	358	483	0.71	1.00	0.85	0.36	1.00	0.71	0.85	0.36	-16.2	-16.2	21.3	21.3

441	2.8	0.8	0.1	5	3	5	3	4	2	2	0	1	0	0	0	0	0	25	3.72	0.92	360	23	0.83	1.00	0.99	0.02	0.10	0.83	0.85	0.21	34.0	-28.0	1,727.3	83.9
442	2.8	0.8	0.2	21	32	27	13	12	2	5	5	3	1	1	0	0	0	122	3.39	0.31	360	111	0.78	1.00	0.97	0.08	0.20	0.78	0.82	0.41	22.1	-15.6	393.2	8.2
443	2.8	0.8	0.3	41	47	38	34	15	15	14	5	4	4	1	0	0	0	218	3.56	0.36	360	198	0.82	1.00	0.95	0.08	0.30	0.82	0.83	0.29	28.2	-13.3	356.3	40.2
444	2.8	0.8	0.4	55	98	76	37	35	23	15	5	5	2	1	2	0	0	354	3.35	0.33	360	299	0.81	1.00	0.95	0.14	0.41	0.81	0.86	0.36	20.6	-15.1	184.6	23.0
445	2.8	0.8	0.5	74	119	84	60	39	19	12	3	6	1	2	0	0	0	419	3.12	0.24	360	344	0.78	1.00	0.93	0.17	0.49	0.78	0.86	0.36	12.4	-14.1	134.8	21.2
446	2.8	0.8	0.6	109	143	129	74	42	22	14	5	4	2	1	1	0	0	546	3	0.20	360	440	0.79	1.00	0.91	0.20	0.61	0.79	0.85	0.33	8.0	-14.7	101.4	27.4
447	2.8	0.8	0.7	118	180	138	61	32	19	10	5	1	2	0	0	0	0	566	2.74	0.14	360	436	0.75	1.00	0.90	0.25	0.69	0.75	0.85	0.37	-1.3	-17.7	64.1	18.3
448	2.8	0.8	0.8	143	193	160	92	46	18	7	4	0	0	0	0	0	0	663	2.71	0.13	360	499	0.77	1.00	0.89	0.27	0.80	0.77	0.86	0.34	-2.4	-15.7	53.3	25.8
449	2.8	0.8	0.9	162	254	188	97	39	8	5	0	2	1	0	0	0	0	756	2.55	0.08	360	555	0.76	1.00	0.88	0.34	0.90	0.76	0.86	0.38	-8.2	-8.2	30.1	18.9
450	2.8	0.8	1	196	270	192	99	39	7	2	1	0	0	0	0	0	0	806	2.44	0.06	360	562	0.75	1.00	0.86	0.36	1.00	0.75	0.86	0.36	-12.1	-12.1	21.2	21.2
451	2.8	0.85	0.1	3	7	10	7	7	3	2	4	2	3	0	0	1	0	49	4.8	0.44	356	46	0.96	0.02	0.00	0.00	0.10	0.96	0.93	0.17	71.1	15.3	6,269.3	127.4
452	2.8	0.85	0.2	21	35	27	26	22	14	5	8	2	3	2	0	0	0	165	3.87	0.51	356	147	0.86	1.00	0.97	0.07	0.20	0.86	0.85	0.39	37.9	-9.8	416.3	13.9
453	2.8	0.85	0.3	43	62	54	39	21	27	14	11	5	1	4	1	0	0	282	3.72	0.42	356	243	0.85	1.00	0.95	0.10	0.30	0.85	0.84	0.35	32.6	-12.7	285.7	22.2
454	2.8	0.85	0.4	71	92	92	62	40	42	15	9	5	3	2	1	0	0	434	3.5	0.22	356	351	0.85	1.00	0.94	0.13	0.40	0.85	0.84	0.34	24.7	-2.3	191.1	23.5
455	2.8	0.85	0.5	98	131	138	64	47	40	17	16	11	3	3	1	0	0	569	3.38	0.19	356	441	0.85	1.00	0.92	0.16	0.50	0.85	0.84	0.32	20.5	-5.7	143.5	28.1
456	2.8	0.85	0.6	115	162	151	101	44	27	25	15	13	4	2	1	0	0	660	3.28	0.25	356	491	0.84	1.00	0.92	0.18	0.59	0.84	0.86	0.32	16.9	-12.7	115.7	32.0
457	2.8	0.85	0.7	151	216	186	116	52	24	18	9	4	5	4	2	1	0	788	3.01	0.18	356	559	0.82	1.00	0.90	0.23	0.71	0.82	0.85	0.34	7.3	-14.5	73.7	26.2
458	2.8	0.85	0.8	144	249	231	133	67	35	28	9	4	3	1	2	0	0	906	3.07	0.20	356	605	0.84	1.00	0.91	0.25	0.79	0.84	0.88	0.32	9.4	-12.1	65.0	33.7
459	2.8	0.85	0.9	183	292	223	142	52	24	12	6	5	0	0	0	0	0	939	2.75	0.12	356	618	0.81	1.00	0.88	0.31	0.89	0.81	0.87	0.35	-2.0	-15.0	38.3	25.2
460	2.8	0.85	1	224	322	264	139	42	17	5	1	0	0	0	0	0	0	1014	2.54	0.07	356	646	0.79	1.00	0.86	0.36	1.00	0.79	0.86	0.36	-9.5	-9.5	19.7	19.7
461	2.8	0.9	0.1	9	9	7	10	8	4	2	8	0	3	0	0	0	0	60	4.33	0.71	355	54	0.90	1.00	0.98	0.03	0.10	0.90	0.76	0.36	53.7	-10.7	983.7	10.2
462	2.8	0.9	0.2	18	43	31	27	21	15	10	15	8	3	2	0	0	0	193	4.22	0.62	355	168	0.88	1.00	0.98	0.07	0.20	0.88	0.88	0.40	49.8	-9.0	415.5	14.0
463	2.8	0.9	0.3	43	78	52	51	43	36	26	5	10	5	6	3	1	2	361	4.14	0.61	355	293	0.91	1.00	0.96	0.09	0.30	0.91	0.86	0.34	47.0	-11.4	307.8	25.5
464	2.8	0.9	0.4	68	141	101	74	41	36	24	10	14	7	7	5	3	1	532	3.77	0.39	355	405	0.89	0.44	0.88	0.33	0.39	0.89	0.86	0.38	33.9	-12.3	30.6	17.1
465	2.8	0.9	0.5	97	184	174	105	77	49	38	22	9	10	6	6	0	1	778	3.68	0.39	355	545	0.90	1.00	0.94	0.16	0.50	0.90	0.87	0.35	30.7	-10.8	137.6	23.2
466	2.8	0.9	0.6	166	273	204	122	105	44	30	17	22	15	3	2	1	0	1004	3.35	0.31	355	652	0.89	1.00	0.90	0.20	0.61	0.89	0.84	0.35	19.0	-15.9	93.0	20.9
467	2.8	0.9	0.7	158	298	268	136	88	57	34	11	14	5	3	2	1	0	1075	3.21	0.25	355	659	0.88	1.00	0.91	0.24	0.70	0.88	0.87	0.36	14.0	-13.2	70.0	22.3
468	2.8	0.9	0.8	207	341	288	164	92	43	35	23	4	4	3	0	0	1	1205	3.05	0.21	355	700	0.87	1.00	0.89	0.27	0.80	0.87	0.86	0.34	8.3	-14.5	54.5	25.5
469	2.8	0.9	0.9	261	416	345	184	81	37	20	11	6	2	0	0	0	0	1363	2.78	0.13	355	732	0.86	1.00	0.87	0.33	0.89	0.86	0.85	0.37	-1.3	-15.7	30.3	17.4
470	2.8	0.9	1	276	473	399	171	81	27	6	2	0	0	0	0	0	0	1435	2.6	0.09	355	735	0.85	1.00	0.87	0.39	1.00	0.85	0.87	0.39	-7.7	-7.7	14.7	14.7

471	2.8	0.95	0.1	8	11	9	9	6	5	5	1	2	3	1	1	1	1	63	4.67	0.70	361	60	0.94	0.21	0.91	0.14	0.10	0.94	0.81	0.32	68.8	-9.2	175.3	27.6
472	2.8	0.95	0.2	33	50	32	35	26	27	22	10	15	6	7	0	3	0	266	4.53	0.77	361	217	0.96	0.09	0.60	0.92	0.20	0.96	0.82	0.34	63.7	-11.1	-40.1	21.8
473	2.8	0.95	0.3	59	101	88	84	61	44	29	29	23	18	10	7	2	2	557	4.49	0.68	361	410	0.97	1.00	0.95	0.10	0.30	0.97	0.84	0.36	62.3	-6.3	292.2	20.9
474	2.8	0.95	0.4	80	180	174	108	76	64	57	25	24	16	10	6	8	1	829	4.14	0.53	361	550	0.95	1.00	0.95	0.14	0.40	0.95	0.87	0.38	49.6	-7.1	185.7	19.7
475	2.8	0.95	0.5	115	253	211	166	113	81	56	31	26	17	14	6	2	2	1093	3.93	0.47	361	659	0.95	1.00	0.94	0.17	0.50	0.95	0.88	0.35	42.0	-7.0	141.9	25.7
476	2.8	0.95	0.6	189	327	283	229	118	80	52	42	28	13	13	3	4	0	1381	3.61	0.34	361	745	0.95	1.00	0.91	0.20	0.59	0.95	0.85	0.35	30.5	-8.3	101.9	22.8
477	2.8	0.95	0.7	205	430	352	232	124	98	56	34	18	10	5	3	1	0	1568	3.37	0.29	361	780	0.93	1.00	0.91	0.25	0.70	0.93	0.87	0.37	21.8	-9.6	69.8	21.4
478	2.8	0.95	0.8	299	481	475	285	135	82	37	22	11	8	4	0	0	0	1839	3.07	0.19	361	835	0.93	1.00	0.88	0.29	0.81	0.93	0.85	0.37	11.0	-10.2	46.1	20.1
479	2.8	0.95	0.9	365	602	527	295	138	65	30	9	3	2	1	1	0	0	2038	2.83	0.14	361	852	0.92	1.00	0.87	0.34	0.89	0.92	0.85	0.39	2.3	-12.5	27.0	14.2
480	2.8	0.95	1	414	740	616	345	126	35	12	0	0	0	0	0	0	0	2288	2.64	0.08	361	878	0.91	1.00	0.86	0.41	1.00	0.91	0.86	0.41	-4.6	-4.6	12.8	12.8
481	2.8	1	0.1	8	19	14	12	10	9	7	5	4	3	2	1	5	0	99	4.99	0.87	359	89	0.98	0.09	0.82	0.51	0.10	0.98	0.84	0.45	79.2	-7.8	-6.8	2.7
482	2.8	1	0.2	35	47	59	41	46	32	26	21	13	15	6	9	7	1	358	4.99	0.57	359	284	1.00	1.00	0.96	0.07	0.19	1.00	0.78	0.42	79.2	10.3	432.1	2.9
483	2.8	1	0.3	78	128	135	107	77	64	56	39	34	21	16	7	8	3	773	4.61	0.47	359	502	1.00	1.00	0.95	0.11	0.30	1.00	0.81	0.43	65.6	6.2	238.7	3.0
484	2.8	1	0.4	139	218	215	164	110	97	74	59	36	29	22	9	4	3	1179	4.29	0.60	359	677	1.00	1.00	0.93	0.15	0.39	1.00	0.81	0.43	54.1	-8.4	159.1	3.0
485	2.8	1	0.5	220	358	360	239	159	135	93	55	50	27	17	4	3	1	1721	3.88	0.29	359	833	1.00	1.00	0.91	0.20	0.50	1.00	0.81	0.44	39.4	1.3	102.5	3.0
486	2.8	1	0.6	304	487	549	337	215	142	106	59	34	28	12	5	0	1	2279	3.6	0.20	359	901	1.00	1.00	0.90	0.25	0.61	1.00	0.82	0.44	29.3	1.5	65.5	2.3
487	2.8	1	0.7	419	710	662	431	250	160	91	47	41	11	8	4	2	0	2836	3.32	0.28	359	970	1.00	1.00	0.88	0.30	0.71	1.00	0.83	0.45	19.3	-10.3	42.1	2.4
488	2.8	1	0.8	528	901	841	497	256	145	76	35	23	7	5	4	0	0	3318	3.07	0.20	359	988	1.00	1.00	0.87	0.35	0.80	1.00	0.83	0.45	10.3	-11.2	26.1	2.2
489	2.8	1	0.9	682	1156	991	564	249	115	55	18	15	4	3	0	0	0	3852	2.83	0.14	359	995	1.00	1.00	0.85	0.40	0.90	1.00	0.83	0.45	1.7	-13.0	12.6	2.1
490	2.8	1	1	832	1397	1189	632	241	81	11	5	0	0	0	0	0	0	4388	2.63	0.08	359	1000	1.00	1.00	0.83	0.46	1.00	1.00	0.83	0.46	-5.5	-5.5	1.1	1.1
491	3	0.7	0.1	3	6	1	4	2	2	3	0	1	0	0	0	0	0	22	3.91	0.57	335	21	0.83	0.03	0.75	0.97	0.11	0.83	0.92	0.21	31.1	-18.6	-40.6	81.8
492	3	0.7	0.2	12	15	20	7	8	2	3	0	0	1	0	0	0	0	68	3.13	0.10	335	65	0.72	1.00	0.98	0.06	0.20	0.72	0.88	0.30	5.0	5.0	464.3	31.9
493	3	0.7	0.3	17	41	21	10	11	6	8	1	2	0	0	0	0	0	117	3.21	0.31	335	111	0.74	0.24	0.89	0.39	0.29	0.74	0.91	0.32	7.7	-23.9	10.8	30.2
494	3	0.7	0.4	35	68	45	19	13	7	3	2	2	1	0	0	0	0	195	2.84	0.17	335	179	0.69	1.00	0.95	0.15	0.41	0.69	0.89	0.37	-4.8	-23.3	152.1	14.1
495	3	0.7	0.5	41	69	58	34	13	14	2	3	3	0	0	1	0	0	238	3	0.18	335	214	0.72	1.00	0.95	0.14	0.51	0.72	0.90	0.27	0.6	-18.8	166.0	44.2
496	3	0.7	0.6	58	99	69	43	19	8	3	1	4	0	0	0	0	0	304	2.77	0.13	335	263	0.70	1.00	0.93	0.19	0.59	0.70	0.89	0.33	-7.1	-20.8	96.3	22.9
497	3	0.7	0.7	96	103	72	36	16	11	4	1	3	0	1	0	0	0	343	2.57	0.12	335	300	0.69	1.00	0.90	0.20	0.70	0.69	0.85	0.28	-13.8	-27.7	87.1	34.5
498	3	0.7	0.8	87	119	87	40	19	7	4	3	1	0	0	0	0	0	367	2.57	0.10	335	319	0.68	1.00	0.91	0.23	0.78	0.68	0.88	0.30	-13.8	-24.9	64.1	32.1
499	3	0.7	0.9	123	134	87	42	13	10	6	0	0	0	1	0	0	0	416	2.4	0.08	335	369	0.68	1.00	0.87	0.26	0.90	0.68	0.86	0.29	-19.5	-19.5	46.7	33.6
500	3	0.7	1	121	154	118	63	18	8	1	0	0	0	0	0	0	0	483	2.44	0.06	335	393	0.69	1.00	0.88	0.30	1.00	0.69	0.88	0.30	-18.2	-18.2	32.5	32.5

501	3	0.75	0.1	1	8	4	2	0	4	1	2	1	0	0	0	0	0	23	4.04	0.53	336	23	0.84	0.05	0.93	0.72	0.10	0.84	0.97	0.33	35.9	-17.0	-22.8	31.4
502	3	0.75	0.2	12	23	22	13	6	5	6	1	2	2	1	1	0	0	94	3.69	0.34	336	88	0.80	1.00	0.98	0.06	0.20	0.80	0.90	0.30	24.1	-15.4	509.7	35.7
503	3	0.75	0.3	27	31	47	10	10	14	4	5	3	2	1	1	1	0	156	3.56	0.25	336	147	0.80	1.00	0.96	0.07	0.30	0.80	0.88	0.24	19.7	-13.9	399.5	58.3
504	3	0.75	0.4	38	47	48	31	18	7	5	4	2	2	0	0	0	0	202	3.15	0.11	336	187	0.75	1.00	0.95	0.11	0.39	0.75	0.88	0.28	5.9	-9.5	236.1	40.3
505	3	0.75	0.5	59	84	58	46	20	11	3	6	1	1	0	0	0	0	289	2.9	0.17	336	250	0.73	1.00	0.93	0.16	0.50	0.73	0.87	0.32	-2.5	-20.3	135.5	24.2
506	3	0.75	0.6	78	108	78	52	18	19	7	2	2	4	1	0	0	0	369	2.91	0.17	336	308	0.75	1.00	0.92	0.17	0.60	0.75	0.87	0.30	-2.1	-21.7	112.7	31.3
507	3	0.75	0.7	90	114	105	56	28	12	7	4	3	2	0	0	0	0	421	2.84	0.15	336	358	0.74	1.00	0.91	0.20	0.71	0.74	0.88	0.28	-4.5	-21.0	89.2	38.3
508	3	0.75	0.8	100	159	110	63	21	13	4	2	3	1	0	0	0	0	476	2.66	0.10	336	393	0.72	1.00	0.91	0.26	0.80	0.72	0.88	0.32	-10.5	-22.2	52.5	25.6
509	3	0.75	0.9	125	160	137	70	21	13	1	2	1	1	0	0	0	0	531	2.56	0.08	336	422	0.72	1.00	0.89	0.28	0.90	0.72	0.87	0.31	-13.9	-13.9	40.4	28.4
510	3	0.75	1	146	181	138	64	19	10	2	0	0	0	0	0	0	0	560	2.41	0.06	336	445	0.71	1.00	0.87	0.32	1.00	0.71	0.87	0.32	-18.9	-18.9	24.3	24.3
511	3	0.8	0.1	3	3	4	3	4	1	2	1	0	0	0	0	0	0	21	3.86	0.24	335	21	0.83	1.00	0.99	0.02	0.10	0.83	0.90	0.20	29.2	4.3	1,648.8	84.0
512	3	0.8	0.2	16	18	27	20	8	9	3	2	4	0	1	0	0	0	108	3.62	0.21	335	101	0.81	1.00	0.97	0.06	0.20	0.81	0.86	0.30	21.1	-4.9	465.5	28.4
513	3	0.8	0.3	33	43	47	26	24	16	9	5	2	0	0	1	0	1	207	3.51	0.20	335	186	0.81	1.00	0.96	0.09	0.30	0.81	0.86	0.31	17.4	-6.4	288.5	24.5
514	3	0.8	0.4	49	74	67	57	30	23	15	9	6	2	1	0	0	0	333	3.53	0.35	335	293	0.83	1.00	0.95	0.12	0.41	0.83	0.88	0.29	18.1	-15.2	209.9	33.2
515	3	0.8	0.5	62	86	78	58	30	28	18	10	4	1	0	2	0	0	377	3.43	0.33	335	308	0.81	1.00	0.94	0.13	0.50	0.81	0.88	0.26	14.8	-17.5	183.1	45.7
516	3	0.8	0.6	71	105	106	66	39	19	9	7	4	2	0	0	0	0	428	3.15	0.11	335	355	0.78	1.00	0.93	0.17	0.60	0.78	0.89	0.29	5.4	-8.5	116.8	36.6
517	3	0.8	0.7	94	150	144	81	38	18	10	4	1	3	3	2	0	0	548	3	0.17	335	435	0.78	1.00	0.92	0.21	0.70	0.78	0.89	0.31	0.4	-18.0	77.9	30.1
518	3	0.8	0.8	101	175	141	94	46	12	9	8	3	1	0	0	0	0	590	2.91	0.15	335	455	0.77	1.00	0.92	0.24	0.80	0.77	0.89	0.31	-2.6	-18.2	60.6	31.3
519	3	0.8	0.9	133	225	181	91	37	9	7	0	2	0	0	0	0	0	685	2.62	0.09	335	501	0.75	1.00	0.90	0.32	0.90	0.75	0.88	0.35	-12.3	-12.3	27.8	16.9
520	3	0.8	1	140	218	177	120	46	7	6	0	0	0	0	0	0	0	714	2.66	0.09	335	518	0.76	1.00	0.89	0.31	1.00	0.76	0.89	0.31	-11.0	-11.0	30.0	30.0
521	3	0.85	0.1	7	3	8	6	6	1	2	2	0	0	1	0	0	0	36	3.83	1.00	335	36	0.85	1.00	0.98	0.03	0.10	0.85	0.81	0.25	28.4	-31.1	1,224.8	43.0
522	3	0.85	0.2	22	31	27	14	12	13	13	2	6	1	2	0	0	0	143	3.86	0.52	335	129	0.86	1.00	0.97	0.06	0.20	0.86	0.83	0.35	29.4	-21.2	443.4	12.4
523	3	0.85	0.3	33	46	46	30	18	15	14	7	7	4	2	2	3	2	229	4.07	0.32	335	205	0.88	1.00	0.96	0.07	0.30	0.88	0.87	0.24	36.4	-8.4	415.7	56.1
524	3	0.85	0.4	52	89	75	59	41	27	19	12	6	4	2	1	1	0	388	3.68	0.41	335	327	0.85	1.00	0.95	0.12	0.40	0.85	0.88	0.32	23.4	-15.8	202.4	26.6
525	3	0.85	0.5	78	122	132	90	44	36	22	17	11	4	1	0	1	0	558	3.53	0.20	335	447	0.86	1.00	0.94	0.15	0.50	0.86	0.87	0.32	18.3	-6.6	138.0	25.8
526	3	0.85	0.6	88	154	135	106	68	37	25	12	8	4	2	1	0	0	640	3.44	0.33	335	483	0.85	1.00	0.94	0.17	0.60	0.85	0.89	0.30	15.3	-15.0	113.9	33.7
527	3	0.85	0.7	97	196	168	103	74	35	16	9	6	2	2	0	1	0	709	3.21	0.26	335	523	0.83	1.00	0.93	0.22	0.70	0.83	0.90	0.32	7.6	-16.5	77.5	28.8
528	3	0.85	0.8	129	229	186	116	56	26	19	10	3	3	0	0	0	0	777	2.98	0.18	335	552	0.81	1.00	0.91	0.25	0.80	0.81	0.89	0.32	-0.1	-18.3	54.0	25.7
529	3	0.85	0.9	166	243	226	129	59	29	11	4	0	0	1	0	0	0	868	2.81	0.14	335	591	0.81	1.00	0.89	0.29	0.90	0.81	0.88	0.32	-5.8	-19.0	37.1	24.6
530	3	0.85	1	184	297	261	151	51	24	8	1	0	0	0	0	0	0	977	2.69	0.09	335	641	0.80	1.00	0.88	0.33	1.00	0.80	0.88	0.33	-9.8	-9.8	22.3	22.3

531	3	0.9	0.1	4	13	10	10	8	6	5	3	1	0	1	0	1	0	62	4.32	0.68	332	56	0.88	1.00	0.99	0.05	0.10	0.88	0.89	0.49	43.4	-10.3	659.7	-6.3
532	3	0.9	0.2	9	26	36	13	9	15	18	7	6	6	2	1	0	0	148	4.64	0.59	332	133	0.92	1.00	0.99	0.05	0.20	0.92	0.93	0.27	54.0	-5.1	573.3	46.5
533	3	0.9	0.3	34	67	67	34	35	32	22	15	8	7	6	2	2	0	331	4.24	0.40	332	276	0.91	1.00	0.97	0.08	0.30	0.91	0.88	0.30	40.7	-4.8	314.4	30.0
534	3	0.9	0.4	65	99	94	73	50	30	26	15	16	8	4	3	3	0	486	3.93	0.47	332	394	0.90	1.00	0.95	0.11	0.39	0.90	0.86	0.31	30.5	-16.1	211.9	26.8
535	3	0.9	0.5	103	185	161	122	84	46	26	25	19	4	7	4	6	0	792	3.71	0.39	332	544	0.91	1.00	0.93	0.16	0.50	0.91	0.86	0.35	23.2	-16.1	124.1	15.7
536	3	0.9	0.6	105	189	179	115	100	51	35	23	14	9	5	2	2	1	830	3.67	0.41	332	565	0.90	1.00	0.93	0.17	0.60	0.90	0.89	0.29	21.8	-16.5	120.5	36.6
537	3	0.9	0.7	128	246	243	156	104	53	25	20	14	4	6	1	0	0	1000	3.39	0.29	332	620	0.88	1.00	0.93	0.22	0.69	0.88	0.89	0.32	12.5	-15.3	75.7	25.8
538	3	0.9	0.8	157	284	310	180	109	50	26	14	9	4	1	4	1	0	1149	3.23	0.10	332	675	0.88	1.00	0.92	0.25	0.79	0.88	0.89	0.32	7.2	-6.8	55.8	26.8
539	3	0.9	0.9	181	359	369	191	106	52	18	13	5	5	0	0	0	0	1299	3.03	0.08	332	744	0.87	1.00	0.91	0.29	0.90	0.87	0.90	0.33	0.6	0.6	36.3	24.7
540	3	0.9	1	217	407	402	203	106	36	5	1	1	0	0	0	0	0	1378	2.79	0.12	332	731	0.86	1.00	0.89	0.35	1.00	0.86	0.89	0.35	-7.4	-17.7	17.7	17.7
541	3	0.95	0.1	6	12	14	8	11	10	6	7	4	5	0	0	0	0	83	4.86	0.63	336	71	0.96	1.00	0.99	0.04	0.11	0.96	0.87	0.36	63.5	4.9	835.6	15.2
542	3	0.95	0.2	26	44	43	22	32	17	21	17	15	13	7	2	1	2	262	4.9	0.94	336	223	0.98	1.00	0.97	0.06	0.20	0.98	0.84	0.33	64.8	-17.5	482.5	20.7
543	3	0.95	0.3	51	81	77	72	54	33	28	32	17	16	11	9	3	2	486	4.65	0.73	336	378	0.97	1.00	0.96	0.08	0.30	0.97	0.85	0.30	56.4	-12.4	319.6	28.5
544	3	0.95	0.4	82	141	158	117	70	53	51	33	22	19	16	3	6	0	771	4.25	0.36	336	523	0.96	1.00	0.95	0.12	0.40	0.96	0.86	0.33	43.0	-1.9	190.1	21.9
545	3	0.95	0.5	109	212	225	175	107	60	56	40	29	12	10	5	0	0	1040	3.91	0.26	336	631	0.95	1.00	0.94	0.17	0.51	0.95	0.88	0.35	31.5	-0.8	121.2	18.3
546	3	0.95	0.6	156	288	233	217	116	90	59	51	25	16	11	6	4	1	1273	3.84	0.42	336	726	0.96	1.00	0.93	0.17	0.61	0.96	0.88	0.30	29.2	-13.5	112.2	31.2
547	3	0.95	0.7	208	388	390	238	138	84	53	28	19	11	5	2	3	0	1567	3.38	0.15	336	792	0.94	1.00	0.91	0.24	0.70	0.94	0.87	0.36	13.7	-6.2	58.7	14.7
548	3	0.95	0.8	257	442	387	267	160	69	43	39	19	10	3	0	0	0	1696	3.24	0.25	336	804	0.93	1.00	0.89	0.26	0.80	0.93	0.87	0.34	9.0	-16.2	48.3	20.5
549	3	0.95	0.9	310	573	470	327	179	74	25	27	5	1	1	0	0	0	1992	3	0.19	336	852	0.93	1.00	0.89	0.32	0.89	0.93	0.87	0.36	0.9	-16.4	27.6	15.1
550	3	0.95	1	339	639	555	356	166	56	14	4	1	0	0	0	0	0	2130	2.82	0.13	336	861	0.92	1.00	0.88	0.36	1.00	0.92	0.88	0.36	-5.1	-16.2	15.8	15.8
551	3	1	0.1	5	15	11	12	5	11	8	9	4	7	1	3	2	1	94	5.62	1.19	334	89	1.00	0.13	0.92	0.31	0.10	1.00	0.89	0.44	87.7	-9.9	32.8	0.0
552	3	1	0.2	18	65	52	39	43	39	30	18	19	15	10	8	6	0	362	5.16	1.08	334	277	1.00	1.00	0.98	0.07	0.21	1.00	0.90	0.43	72.3	-11.7	377.8	3.7
553	3	1	0.3	44	107	111	98	80	58	58	37	24	17	16	15	5	2	672	4.86	0.53	334	447	1.00	1.00	0.97	0.10	0.30	1.00	0.88	0.40	62.3	5.0	246.6	6.6
554	3	1	0.4	102	174	219	167	107	97	63	47	31	30	15	16	3	3	1074	4.4	0.40	334	625	1.00	1.00	0.94	0.14	0.39	1.00	0.84	0.41	47.0	0.3	154.4	2.5
555	3	1	0.5	138	315	306	246	158	127	81	48	41	31	23	10	10	4	1538	4.17	0.53	334	774	1.00	1.00	0.94	0.18	0.50	1.00	0.87	0.42	39.3	-11.3	103.5	3.3
556	3	1	0.6	228	428	421	327	213	145	79	68	38	27	16	11	7	2	2010	3.84	0.43	334	893	1.00	1.00	0.92	0.22	0.60	1.00	0.85	0.41	28.3	-13.1	70.6	3.6
557	3	1	0.7	320	560	586	414	264	162	84	52	32	30	16	5	4	1	2530	3.57	0.18	334	958	1.00	1.00	0.90	0.27	0.70	1.00	0.85	0.40	19.2	-3.8	45.5	3.8
558	3	1	0.8	397	726	691	528	277	148	93	43	33	20	8	5	3	0	2972	3.36	0.27	334	981	1.00	1.00	0.89	0.31	0.79	1.00	0.86	0.41	12.2	-14.0	29.5	3.8
559	3	1	0.9	497	920	901	607	300	147	71	28	6	11	6	1	1	0	3496	3.1	0.20	334	996	1.00	1.00	0.88	0.36	0.90	1.00	0.86	0.41	3.5	-14.7	14.4	3.4
560	3	1	1	633	1137	1079	716	291	117	31	5	1	0	0	0	0	0	4010	2.85	0.12	334	1000	1.00	1.00	0.86	0.42	1.00	1.00	0.86	0.42	-4.8	-15.6	2.3	2.3

561	3.2	0.7	0.1	1	3	6	1	3	1	2	1	0	0	0	0	0	0	18	4	0.29	313	18	0.80	1.00	1.00	0.02	0.11	0.80	0.97	0.19	25.0	-1.8	1,439.4	94.0
562	3.2	0.7	0.2	9	19	13	10	4	0	3	0	0	0	0	0	0	0	58	2.88	0.14	313	56	0.65	1.00	0.98	0.08	0.20	0.65	0.90	0.39	-10.0	-22.8	310.9	3.3
563	3.2	0.7	0.3	20	24	22	13	11	6	5	4	1	1	0	0	0	0	107	3.39	0.35	313	103	0.77	1.00	0.97	0.06	0.29	0.77	0.90	0.20	6.0	-26.4	468.1	73.9
564	3.2	0.7	0.4	35	37	34	20	11	7	7	1	2	2	0	0	0	0	156	3.1	0.24	313	146	0.74	1.00	0.95	0.08	0.39	0.74	0.88	0.22	-3.1	-27.8	290.2	58.2
565	3.2	0.7	0.5	24	73	57	25	20	3	4	3	2	0	0	0	0	0	211	2.98	0.18	313	194	0.69	1.00	0.97	0.16	0.50	0.69	0.94	0.32	-6.9	-23.0	122.7	23.7
566	3.2	0.7	0.6	54	71	73	34	22	7	5	4	2	1	0	0	0	0	273	2.92	0.07	313	247	0.72	1.00	0.94	0.15	0.59	0.72	0.90	0.25	-8.7	-8.7	126.1	41.3
567	3.2	0.7	0.7	65	97	72	56	23	16	4	2	1	0	0	0	0	0	336	2.87	0.16	313	304	0.72	1.00	0.93	0.18	0.70	0.72	0.90	0.26	-10.3	-24.7	92.3	40.0
568	3.2	0.7	0.8	76	116	78	58	22	9	2	0	1	0	0	0	0	0	362	2.65	0.10	313	317	0.69	1.00	0.92	0.23	0.80	0.69	0.90	0.29	-17.2	-26.3	57.4	29.4
569	3.2	0.7	0.9	77	121	91	47	27	8	0	1	0	0	0	0	0	0	372	2.61	0.11	313	331	0.68	1.00	0.92	0.25	0.90	0.68	0.91	0.27	-18.4	-27.5	47.6	35.4
570	3.2	0.7	1	82	129	89	56	25	10	3	0	0	0	0	0	0	0	394	2.63	0.11	313	335	0.69	1.00	0.91	0.25	1.00	0.69	0.91	0.25	-17.8	-27.1	46.9	46.9
571	3.2	0.75	0.1	4	6	3	6	2	1	2	1	0	0	0	0	0	0	25	3.48	0.32	308	25	0.78	1.00	0.99	0.03	0.10	0.78	0.87	0.32	7.3	-20.5	936.6	15.9
572	3.2	0.75	0.2	11	19	16	10	6	9	6	1	0	0	1	0	0	0	79	3.57	0.41	308	76	0.79	1.00	0.98	0.05	0.20	0.79	0.89	0.29	10.1	-24.6	486.6	26.7
573	3.2	0.75	0.3	22	29	37	13	24	9	4	3	2	0	0	0	0	0	143	3.41	0.14	308	134	0.77	1.00	0.97	0.08	0.30	0.77	0.89	0.26	5.2	-10.4	308.4	36.7
574	3.2	0.75	0.4	22	55	49	36	13	11	9	4	0	3	1	0	1	0	204	3.45	0.26	308	188	0.77	1.00	0.97	0.11	0.40	0.77	0.93	0.27	6.4	-19.5	215.9	36.6
575	3.2	0.75	0.5	35	67	61	46	22	12	5	8	2	1	2	0	0	0	261	3.32	0.25	308	236	0.77	1.00	0.96	0.12	0.50	0.77	0.92	0.25	2.4	-20.9	172.5	43.5
576	3.2	0.75	0.6	59	83	80	37	24	14	6	4	2	5	0	0	0	0	314	3.05	0.21	308	279	0.75	1.00	0.94	0.15	0.60	0.75	0.90	0.25	-5.9	-27.0	127.1	42.5
577	3.2	0.75	0.7	68	89	93	70	33	16	3	3	2	4	1	1	0	0	383	3.11	0.08	308	329	0.76	1.00	0.93	0.16	0.71	0.76	0.91	0.23	-4.1	-4.1	110.2	53.6
578	3.2	0.75	0.8	68	117	111	81	33	10	9	4	2	0	1	0	0	1	437	3.03	0.16	308	380	0.75	1.00	0.94	0.20	0.81	0.75	0.92	0.25	-6.6	-21.6	76.3	46.4
579	3.2	0.75	0.9	78	158	151	72	28	10	7	5	4	0	0	0	0	0	513	2.85	0.12	308	416	0.74	1.00	0.93	0.25	0.90	0.74	0.92	0.28	-12.1	-23.7	43.7	30.9
580	3.2	0.75	1	95	143	158	64	31	5	1	2	0	0	0	0	0	0	499	2.64	0.02	308	418	0.72	1.00	0.91	0.28	1.00	0.72	0.91	0.28	-18.6	-18.6	30.6	30.6
581	3.2	0.8	0.1	5	3	7	3	2	0	0	0	1	0	0	1	0	0	22	3.41	0.47	315	22	0.79	1.00	0.98	0.02	0.09	0.79	0.81	0.26	7.3	-32.9	1,190.5	28.6
582	3.2	0.8	0.2	9	21	18	19	9	12	7	4	2	1	1	0	1	0	104	4.14	0.55	315	98	0.85	1.00	0.99	0.05	0.21	0.85	0.93	0.25	30.2	-15.0	563.4	50.2
583	3.2	0.8	0.3	29	39	40	27	19	11	7	5	4	0	1	1	0	0	183	3.52	0.19	315	164	0.81	1.00	0.96	0.08	0.30	0.81	0.87	0.29	10.7	-12.2	296.7	26.6
584	3.2	0.8	0.4	41	68	56	45	24	13	10	5	4	5	3	1	0	1	276	3.54	0.31	315	235	0.81	1.00	0.96	0.11	0.40	0.81	0.89	0.28	11.3	-21.4	212.6	31.8
585	3.2	0.8	0.5	52	83	67	50	32	23	14	6	7	3	2	1	0	0	340	3.5	0.35	315	294	0.81	1.00	0.95	0.12	0.51	0.81	0.90	0.24	10.1	-22.7	185.0	49.0
586	3.2	0.8	0.6	79	102	94	59	42	26	12	8	3	1	0	0	0	0	426	3.17	0.28	315	354	0.79	1.00	0.93	0.16	0.60	0.79	0.88	0.27	-0.3	-24.6	117.8	34.4
587	3.2	0.8	0.7	80	138	127	96	36	25	15	6	3	4	0	1	0	0	531	3.17	0.20	315	429	0.80	1.00	0.93	0.19	0.70	0.80	0.90	0.28	-0.3	-20.1	85.0	33.5
588	3.2	0.8	0.8	87	138	151	102	36	29	7	7	6	0	1	1	0	0	565	3.12	0.10	315	456	0.79	1.00	0.93	0.21	0.80	0.79	0.91	0.26	-1.9	-1.9	73.3	41.9
589	3.2	0.8	0.9	130	167	183	109	39	14	7	3	1	0	0	0	0	0	653	2.77	0.04	315	496	0.77	1.00	0.90	0.27	0.91	0.77	0.89	0.29	-12.9	-12.9	37.8	26.8
590	3.2	0.8	1	143	200	184	121	59	19	4	0	0	0	0	0	0	0	730	2.76	0.13	315	546	0.78	1.00	0.89	0.28	1.00	0.78	0.89	0.28	-13.2	-23.4	30.9	30.9

591	3.2	0.85	0.1	1	6	8	11	4	0	3	1	0	1	1	1	0	1	38	4.66	0.27	315	37	0.95	0.02	0.01	0.00	0.10	0.95	0.97	0.28	47.0	6.2	46,698.6	40.7
592	3.2	0.85	0.2	8	24	29	16	14	11	9	5	5	1	2	0	1	0	125	4.29	0.37	315	115	0.87	1.00	0.99	0.06	0.19	0.87	0.92	0.33	35.3	-4.0	441.6	19.6
593	3.2	0.85	0.3	29	49	48	44	23	23	16	6	6	4	4	3	1	0	256	4.09	0.51	315	221	0.88	1.00	0.97	0.08	0.30	0.88	0.89	0.28	29.0	-17.1	309.2	29.7
594	3.2	0.85	0.4	46	77	67	58	37	28	27	20	7	6	3	1	2	0	379	4.03	0.53	315	320	0.89	1.00	0.96	0.10	0.40	0.89	0.89	0.25	27.1	-19.5	247.0	43.1
595	3.2	0.85	0.5	61	128	108	76	46	20	26	10	11	6	1	1	0	0	494	3.52	0.32	315	383	0.84	1.00	0.95	0.15	0.51	0.84	0.90	0.31	11.0	-20.1	128.7	23.4
596	3.2	0.85	0.6	62	137	141	94	45	25	11	11	10	2	1	0	0	1	540	3.35	0.13	315	423	0.82	1.00	0.95	0.18	0.59	0.82	0.91	0.31	5.7	-10.4	95.5	23.6
597	3.2	0.85	0.7	96	160	178	106	64	38	21	14	9	5	1	1	2	0	695	3.4	0.15	315	523	0.85	1.00	0.93	0.19	0.70	0.85	0.90	0.27	7.3	-11.5	90.3	36.7
598	3.2	0.85	0.8	119	208	193	142	83	32	29	2	3	2	1	0	0	0	814	3.15	0.23	315	570	0.83	1.00	0.92	0.23	0.80	0.83	0.90	0.29	-0.6	-19.9	56.6	28.8
599	3.2	0.85	0.9	150	244	212	147	74	29	17	5	3	4	1	1	0	0	887	2.99	0.18	315	594	0.83	1.00	0.90	0.26	0.90	0.83	0.89	0.29	-5.7	-22.0	41.6	29.4
600	3.2	0.85	1	147	278	256	169	67	27	10	0	0	0	0	0	0	0	954	2.84	0.12	315	625	0.81	1.00	0.91	0.31	1.00	0.81	0.91	0.31	-10.4	-20.3	23.8	23.8
601	3.2	0.9	0.1	3	7	8	4	4	6	2	3	1	3	1	0	1	0	43	4.98	0.65	308	43	0.98	0.02	0.00	0.00	0.10	0.98	0.93	0.17	53.3	-8.8	4,502.7	102.5
602	3.2	0.9	0.2	16	25	26	13	12	11	11	11	2	3	2	0	1	0	133	4.29	0.45	308	115	0.90	1.00	0.97	0.05	0.19	0.90	0.86	0.30	32.1	-14.3	494.9	20.0
603	3.2	0.9	0.3	32	46	48	51	29	18	21	18	13	4	3	1	0	1	285	4.32	0.27	308	244	0.92	1.00	0.97	0.07	0.30	0.92	0.88	0.26	33.0	-0.4	337.4	35.6
604	3.2	0.9	0.4	44	82	92	70	47	29	29	23	5	5	6	2	2	0	436	4.06	0.30	308	348	0.90	1.00	0.96	0.11	0.40	0.90	0.90	0.29	25.0	-8.2	200.3	27.6
605	3.2	0.9	0.5	66	122	146	112	65	43	26	25	13	12	10	3	2	0	645	3.98	0.26	308	482	0.91	1.00	0.95	0.13	0.51	0.91	0.90	0.27	22.5	-8.4	152.0	33.7
606	3.2	0.9	0.6	85	144	147	136	91	53	40	14	13	9	6	1	1	0	740	3.81	0.23	308	520	0.90	1.00	0.94	0.15	0.60	0.90	0.90	0.26	17.3	-7.4	121.6	36.6
607	3.2	0.9	0.7	105	175	210	151	83	66	39	19	16	9	3	1	0	0	877	3.65	0.21	308	571	0.90	1.00	0.94	0.18	0.70	0.90	0.91	0.26	12.4	-10.5	92.2	38.4
608	3.2	0.9	0.8	129	265	282	185	104	47	39	17	5	4	2	2	0	0	1081	3.32	0.12	308	667	0.88	1.00	0.93	0.24	0.80	0.88	0.91	0.30	2.2	-11.8	51.0	24.1
609	3.2	0.9	0.9	152	276	305	205	106	69	25	24	4	1	1	1	0	0	1169	3.27	0.12	308	698	0.88	1.00	0.92	0.25	0.90	0.88	0.91	0.28	0.7	-12.5	45.2	32.5
610	3.2	0.9	1	180	312	324	250	110	55	15	1	0	0	0	0	0	0	1247	3.02	0.06	308	709	0.87	1.00	0.91	0.29	1.00	0.87	0.91	0.29	-7.0	-7.0	26.8	26.8
611	3.2	0.95	0.1	7	7	19	8	7	3	6	2	1	3	2	2	1	0	68	4.69	0.42	313	61	0.94	1.00	0.98	0.03	0.10	0.94	0.80	0.35	47.0	-5.4	819.6	3.9
612	3.2	0.95	0.2	21	34	44	30	21	20	19	11	7	4	5	0	1	1	218	4.46	0.45	313	187	0.94	1.00	0.97	0.07	0.20	0.94	0.85	0.36	39.8	-6.8	381.3	5.0
613	3.2	0.95	0.3	32	69	88	54	42	37	35	17	18	13	4	4	2	0	415	4.51	0.46	313	325	0.95	1.00	0.97	0.09	0.30	0.95	0.89	0.32	41.3	-5.5	266.2	17.5
614	3.2	0.95	0.4	48	108	117	89	92	53	31	23	22	10	9	4	0	1	607	4.3	0.34	313	442	0.94	1.00	0.96	0.12	0.39	0.94	0.90	0.32	34.7	-1.2	187.0	18.8
615	3.2	0.95	0.5	91	177	182	167	111	68	53	42	34	13	7	4	2	1	952	4.13	0.31	313	608	0.96	1.00	0.95	0.15	0.51	0.96	0.89	0.30	29.4	-4.7	135.9	25.9
616	3.2	0.95	0.6	116	233	269	185	123	83	49	40	24	10	6	6	2	2	1148	3.84	0.24	313	690	0.95	1.00	0.94	0.18	0.61	0.95	0.90	0.31	20.3	-7.2	94.0	22.2
617	3.2	0.95	0.7	143	296	307	233	155	82	64	33	23	8	11	2	0	0	1357	3.68	0.20	313	742	0.94	1.00	0.93	0.21	0.70	0.94	0.90	0.30	15.3	-7.1	73.5	24.8
618	3.2	0.95	0.8	192	365	407	289	174	88	64	32	16	9	4	2	2	0	1644	3.48	0.15	313	802	0.95	1.00	0.92	0.24	0.81	0.95	0.90	0.30	9.0	-8.5	52.4	25.0
619	3.2	0.95	0.9	223	433	462	363	176	68	38	17	13	4	2	0	0	0	1799	3.22	0.09	313	817	0.93	1.00	0.91	0.28	0.90	0.93	0.90	0.32	0.9	0.9	32.3	20.7
620	3.2	0.95	1	262	514	540	407	183	79	27	6	3	0	0	0	0	0	2021	3.06	0.06	313	855	0.93	1.00	0.90	0.32	1.00	0.93	0.90	0.32	-4.1	-4.1	20.4	20.4

621	3.2	1	0.1	5	14	14	11	10	6	6	1	3	3	1	4	1	0	79	4.86	0.46	314	68	0.95	1.00	0.99	0.04	0.10	0.95	0.85	0.49	52.5	-1.8	662.2	-14.6
622	3.2	1	0.2	16	32	40	43	44	29	23	10	11	8	7	6	4	1	274	5.11	0.21	314	219	1.00	1.00	0.98	0.06	0.20	1.00	0.89	0.35	60.4	28.2	451.6	11.3
623	3.2	1	0.3	43	91	91	88	69	55	42	26	28	31	13	7	6	3	593	4.95	0.55	314	424	1.00	1.00	0.97	0.10	0.30	1.00	0.88	0.38	55.3	-1.8	246.1	4.5
624	3.2	1	0.4	79	159	177	132	108	93	75	54	24	21	14	12	4	1	953	4.51	0.45	314	591	1.00	1.00	0.95	0.13	0.39	1.00	0.87	0.38	41.5	-4.4	158.1	3.4
625	3.2	1	0.5	122	254	258	204	162	110	96	63	35	26	21	16	4	4	1375	4.34	0.38	314	755	1.00	1.00	0.94	0.17	0.49	1.00	0.88	0.37	36.2	-4.9	110.3	5.7
626	3.2	1	0.6	177	380	358	298	207	136	106	69	30	30	20	6	6	0	1823	4	0.50	314	858	1.00	1.00	0.93	0.21	0.60	1.00	0.88	0.38	25.5	-17.1	72.0	4.2
627	3.2	1	0.7	246	520	503	396	247	142	107	68	33	27	15	6	7	0	2317	3.74	0.39	314	939	1.00	1.00	0.92	0.25	0.70	1.00	0.88	0.38	17.4	-17.5	46.3	4.4
628	3.2	1	0.8	303	642	613	498	297	169	96	56	28	15	6	0	0	2	2725	3.5	0.33	314	976	1.00	1.00	0.91	0.30	0.79	1.00	0.88	0.39	9.8	-17.3	28.1	2.6
629	3.2	1	0.9	437	813	759	603	334	143	72	42	25	5	1	0	1	0	3235	3.22	0.24	314	994	1.00	1.00	0.89	0.34	0.90	1.00	0.87	0.38	1.0	-18.9	13.9	3.1
630	3.2	1	1	509	1020	941	696	346	137	42	12	4	0	0	0	0	0	3707	3	0.17	314	999	1.00	1.00	0.88	0.39	1.00	1.00	0.88	0.39	-5.9	-19.2	2.3	2.3
631	3.4	0.7	0.1	2	3	2	3	3	0	1	1	0	0	0	0	0	0	15	3.73	0.50	293	15	0.79	1.00	0.99	0.02	0.10	0.79	0.93	0.19	9.3	-23.8	1,528.3	75.2
632	3.4	0.7	0.2	11	9	14	5	14	0	3	1	1	0	0	1	0	0	59	3.58	0.74	293	56	0.80	1.00	0.98	0.04	0.20	0.80	0.89	0.18	4.9	-38.8	723.7	73.5
633	3.4	0.7	0.3	14	26	20	9	7	4	1	3	0	0	0	0	0	0	84	3	0.22	293	83	0.68	1.00	0.98	0.08	0.30	0.68	0.92	0.26	-12.1	-31.2	299.2	33.0
634	3.4	0.7	0.4	18	44	42	28	6	4	2	4	2	0	0	0	0	0	150	3.08	0.14	293	146	0.70	1.00	0.97	0.11	0.40	0.70	0.94	0.28	-9.7	-23.6	179.0	26.8
635	3.4	0.7	0.5	16	58	46	25	19	7	1	1	1	1	0	0	0	0	175	3.09	0.21	293	166	0.69	1.00	0.98	0.13	0.49	0.69	0.96	0.27	-9.4	-25.2	142.5	32.9
636	3.4	0.7	0.6	43	59	58	41	17	14	6	0	1	1	1	0	0	0	241	3.07	0.20	293	217	0.73	1.00	0.95	0.13	0.61	0.73	0.92	0.21	-10.0	-27.2	147.2	56.9
637	3.4	0.7	0.7	40	90	73	36	21	9	3	2	0	0	0	0	0	0	274	2.84	0.15	293	251	0.69	1.00	0.95	0.19	0.69	0.69	0.93	0.28	-16.8	-28.5	75.2	28.5
638	3.4	0.7	0.8	72	109	93	47	24	10	2	3	0	0	0	0	0	0	360	2.71	0.12	293	315	0.70	1.00	0.92	0.22	0.81	0.70	0.91	0.27	-20.6	-30.9	53.2	27.4
639	3.4	0.7	0.9	65	99	105	56	27	15	3	1	2	0	0	0	0	0	373	2.88	0.06	293	325	0.72	1.00	0.93	0.20	0.90	0.72	0.93	0.22	-15.6	-15.6	65.5	50.9
640	3.4	0.7	1	66	130	101	55	22	5	1	0	0	0	0	0	0	0	380	2.62	0.08	293	321	0.68	1.00	0.93	0.27	1.00	0.68	0.93	0.27	-23.2	-23.2	30.2	30.2
641	3.4	0.75	0.1	5	1	5	4	2	1	0	3	0	0	0	0	0	0	21	3.71	0.91	293	21	0.85	0.23	0.93	0.07	0.10	0.85	0.83	0.17	8.8	-41.4	311.6	76.8
642	3.4	0.75	0.2	21	17	9	6	3	6	3	0	0	1	1	0	0	0	67	2.97	0.43	293	65	0.75	0.06	0.31	1.00	0.20	0.75	0.79	0.22	-12.9	-48.8	-61.7	32.2
643	3.4	0.75	0.3	15	27	25	21	6	13	3	0	1	1	1	1	0	0	114	3.5	0.30	293	107	0.77	1.00	0.98	0.07	0.29	0.77	0.92	0.24	2.6	-24.0	352.4	44.3
644	3.4	0.75	0.4	29	44	48	33	15	13	6	1	0	2	0	0	0	0	191	3.23	0.13	293	177	0.75	1.00	0.96	0.11	0.41	0.75	0.91	0.26	-5.3	-18.8	194.1	31.8
645	3.4	0.75	0.5	36	48	51	30	19	12	7	7	0	0	0	0	0	1	211	3.27	0.15	293	193	0.75	1.00	0.96	0.10	0.50	0.75	0.91	0.21	-4.1	-20.3	202.8	59.7
646	3.4	0.75	0.6	45	71	79	42	27	23	4	2	2	2	0	0	0	0	297	3.19	0.13	293	257	0.76	1.00	0.95	0.14	0.60	0.76	0.92	0.23	-6.5	-19.2	129.5	45.6
647	3.4	0.75	0.7	68	88	99	49	33	18	9	5	3	1	1	0	0	0	374	3.1	0.11	293	330	0.76	1.00	0.93	0.16	0.70	0.76	0.91	0.23	-9.1	-21.5	103.9	47.1
648	3.4	0.75	0.8	66	94	128	76	31	24	10	2	0	2	0	1	0	0	434	3.13	0.10	293	368	0.77	1.00	0.94	0.18	0.79	0.77	0.92	0.23	-8.2	-8.2	81.8	48.5
649	3.4	0.75	0.9	74	127	124	95	34	13	6	2	2	1	0	0	0	0	478	2.96	0.14	293	406	0.75	1.00	0.93	0.22	0.90	0.75	0.93	0.25	-13.2	-24.6	53.0	39.7
650	3.4	0.75	1	99	127	155	86	37	11	2	3	1	0	0	0	0	0	521	2.8	0.03	293	423	0.74	1.00	0.91	0.24	1.00	0.74	0.91	0.24	-17.9	-17.9	39.1	39.1

651	3.4	0.8	0.1	0	3	6	3	1	0	0	2	1	1	0	0	0	0	17	4.47	0.31	294	17	0.83	1.00	1.00	0.02	0.10	0.83	1.00	0.19	31.6	-7.1	1,444.8	84.1
652	3.4	0.8	0.2	16	14	16	11	8	9	3	2	2	1	0	1	0	1	84	3.82	0.83	294	77	0.87	0.03	0.00	0.00	0.20	0.87	0.85	0.20	12.5	-41.1	6.3	53.0
653	3.4	0.8	0.3	16	45	32	34	16	10	4	5	2	3	3	0	0	0	170	3.69	0.34	294	158	0.81	1.00	0.98	0.09	0.30	0.81	0.93	0.31	8.7	-21.6	255.9	17.4
654	3.4	0.8	0.4	40	60	60	36	27	12	11	3	5	1	2	0	0	0	257	3.38	0.15	294	223	0.80	1.00	0.96	0.11	0.40	0.80	0.89	0.28	-0.5	-18.3	182.8	22.3
655	3.4	0.8	0.5	37	80	64	46	31	18	9	8	4	2	0	1	1	0	301	3.47	0.33	294	265	0.80	1.00	0.96	0.12	0.50	0.80	0.92	0.25	2.2	-25.7	162.1	36.3
656	3.4	0.8	0.6	49	118	87	60	35	21	14	9	7	3	2	1	0	0	406	3.41	0.29	294	337	0.80	1.00	0.96	0.15	0.60	0.80	0.93	0.26	0.4	-26.3	115.6	34.3
657	3.4	0.8	0.7	62	115	141	79	42	32	13	7	2	3	2	0	0	0	498	3.31	0.13	294	401	0.80	1.00	0.95	0.18	0.70	0.80	0.92	0.25	-2.5	-16.8	87.9	36.3
658	3.4	0.8	0.8	75	153	125	83	45	24	17	9	1	0	0	0	0	0	532	3.11	0.22	294	437	0.78	1.00	0.94	0.21	0.81	0.78	0.92	0.26	-8.4	-26.5	63.5	34.5
659	3.4	0.8	0.9	76	152	147	99	43	21	5	7	2	0	0	0	0	0	552	3.02	0.16	294	438	0.77	1.00	0.94	0.23	0.90	0.77	0.93	0.26	-11.1	-24.4	48.6	36.2
660	3.4	0.8	1	95	182	183	120	52	26	9	2	1	0	0	0	0	0	670	2.97	0.06	294	505	0.79	1.00	0.93	0.26	1.00	0.79	0.93	0.26	-12.5	-12.5	35.5	35.5
661	3.4	0.85	0.1	2	7	6	7	5	5	1	2	2	1	1	0	0	0	39	4.59	0.77	294	38	0.90	1.00	0.99	0.03	0.11	0.90	0.95	0.27	35.1	-17.1	982.3	31.9
662	3.4	0.85	0.2	7	25	26	20	15	8	7	3	0	0	1	0	0	0	112	3.77	0.20	294	103	0.80	1.00	0.99	0.08	0.20	0.80	0.93	0.40	10.9	-8.2	293.9	-1.8
663	3.4	0.85	0.3	27	29	45	34	16	14	6	5	5	2	3	1	1	0	188	3.86	0.25	294	174	0.85	1.00	0.97	0.07	0.31	0.85	0.88	0.23	13.6	-15.0	332.2	41.0
664	3.4	0.85	0.4	30	59	66	55	41	22	16	14	12	5	4	2	1	0	327	4.18	0.30	294	276	0.89	1.00	0.97	0.09	0.39	0.89	0.92	0.23	23.0	-9.6	250.0	45.4
665	3.4	0.85	0.5	49	89	91	65	47	27	23	13	11	5	2	1	0	1	424	3.82	0.24	294	345	0.86	1.00	0.96	0.12	0.50	0.86	0.91	0.24	12.4	-14.1	171.9	40.3
666	3.4	0.85	0.6	56	114	122	84	52	28	21	17	7	7	2	2	2	0	514	3.7	0.20	294	423	0.86	1.00	0.96	0.14	0.60	0.86	0.92	0.24	8.9	-14.3	128.0	41.6
667	3.4	0.85	0.7	54	126	147	105	70	37	28	8	5	6	3	2	2	0	593	3.69	0.18	294	456	0.85	1.00	0.96	0.16	0.70	0.85	0.94	0.23	8.6	-11.1	107.0	50.7
668	3.4	0.85	0.8	85	188	182	134	72	41	25	14	5	6	2	1	0	0	755	3.41	0.28	294	554	0.85	1.00	0.94	0.20	0.80	0.85	0.93	0.26	0.3	-22.9	67.3	36.0
669	3.4	0.85	0.9	103	204	211	181	94	34	15	6	7	1	0	0	0	0	856	3.23	0.08	294	596	0.84	1.00	0.93	0.23	0.90	0.84	0.93	0.26	-5.0	-5.0	46.9	33.4
670	3.4	0.85	1	112	232	229	176	95	31	13	1	0	1	0	0	0	0	890	3.08	0.19	294	605	0.83	1.00	0.93	0.27	1.00	0.83	0.93	0.27	-9.4	-22.7	32.0	32.0
671	3.4	0.9	0.1	3	7	5	8	1	3	4	1	2	1	1	2	0	0	38	4.89	0.65	295	38	0.96	0.02	0.00	0.00	0.10	0.96	0.92	0.23	44.4	-17.8	744.2	46.2
672	3.4	0.9	0.2	9	23	21	24	23	6	9	8	1	3	1	0	1	1	130	4.38	0.69	295	117	0.89	1.00	0.99	0.06	0.21	0.89	0.93	0.28	29.3	-17.9	457.5	27.0
673	3.4	0.9	0.3	20	37	51	40	36	35	19	15	11	5	2	3	3	1	278	4.71	0.51	295	246	0.94	1.00	0.98	0.06	0.29	0.94	0.92	0.23	39.1	-5.8	379.4	50.2
674	3.4	0.9	0.4	27	71	87	63	51	25	26	14	17	1	9	3	3	1	398	4.35	0.33	295	321	0.91	1.00	0.98	0.10	0.40	0.91	0.94	0.25	28.4	-7.5	223.9	39.6
675	3.4	0.9	0.5	51	101	107	95	71	40	28	23	12	12	6	2	1	0	549	4.12	0.29	295	427	0.91	1.00	0.96	0.12	0.50	0.91	0.92	0.24	21.7	-9.1	175.3	43.4
676	3.4	0.9	0.6	77	138	142	134	89	49	31	18	17	6	4	4	2	0	711	3.86	0.23	295	522	0.90	1.00	0.95	0.15	0.60	0.90	0.91	0.25	14.0	-10.4	121.6	36.6
677	3.4	0.9	0.7	80	184	212	150	108	63	34	25	16	6	4	2	1	0	885	3.76	0.21	295	596	0.90	1.00	0.95	0.18	0.70	0.90	0.93	0.26	11.0	-10.5	88.6	36.8
678	3.4	0.9	0.8	101	237	266	154	106	49	35	15	16	10	5	1	0	0	995	3.51	0.15	295	635	0.89	1.00	0.94	0.21	0.81	0.89	0.93	0.27	3.6	-13.9	60.0	31.8
679	3.4	0.9	0.9	128	286	291	217	136	68	26	12	9	7	2	1	0	0	1183	3.37	0.12	295	714	0.89	1.00	0.93	0.24	0.90	0.89	0.92	0.27	-0.5	-12.9	44.6	31.0
680	3.4	0.9	1	135	323	345	235	129	54	15	3	1	0	0	0	0	0	1240	3.12	0.06	295	718	0.87	1.00	0.93	0.29	1.00	0.87	0.93	0.29	-7.9	-7.9	23.8	23.8

681	3.4	0.95	0.1	7	6	7	5	7	9	3	1	2	3	2	0	0	1	53	4.94	1.65	292	47	0.97	1.00	0.98	0.02	0.10	0.97	0.80	0.26	44.4	-41.6	1,133.4	20.3
682	3.4	0.95	0.2	12	28	29	30	20	10	11	10	7	6	4	2	1	0	170	4.68	0.32	292	147	0.97	0.04	0.00	0.14	0.19	0.97	0.90	0.32	36.8	-1.4	-70.8	10.8
683	3.4	0.95	0.3	28	53	71	58	47	39	42	19	9	10	7	3	5	1	392	4.76	0.53	292	314	0.97	1.00	0.97	0.08	0.31	0.97	0.91	0.26	39.1	-7.4	296.1	30.1
684	3.4	0.95	0.4	52	102	108	107	65	58	36	20	16	14	5	6	7	0	596	4.35	0.37	292	444	0.96	1.00	0.96	0.11	0.41	0.96	0.90	0.28	27.1	-10.2	185.8	21.7
685	3.4	0.95	0.5	77	119	168	130	102	74	53	29	17	10	6	8	5	0	798	4.23	0.34	292	532	0.96	1.00	0.95	0.13	0.50	0.96	0.90	0.26	23.6	-9.3	147.6	30.4
686	3.4	0.95	0.6	85	178	237	180	143	99	47	23	28	17	8	4	5	1	1055	4.11	0.28	292	639	0.96	1.00	0.95	0.16	0.60	0.96	0.92	0.28	20.1	-8.1	102.3	26.2
687	3.4	0.95	0.7	116	274	293	212	136	93	52	32	27	18	7	7	4	2	1273	3.86	0.23	292	738	0.95	1.00	0.94	0.19	0.69	0.95	0.92	0.28	12.8	-12.9	75.9	25.1
688	3.4	0.95	0.8	137	312	355	287	172	101	50	28	15	13	7	1	1	0	1479	3.64	0.17	292	777	0.94	1.00	0.94	0.22	0.80	0.94	0.92	0.28	6.4	-11.3	51.6	24.0
689	3.4	0.95	0.9	171	393	441	336	172	94	59	23	5	7	5	3	0	0	1709	3.42	0.13	292	813	0.94	1.00	0.93	0.26	0.90	0.94	0.92	0.29	-0.0	-13.4	35.4	22.7
690	3.4	0.95	1	207	462	495	370	206	95	32	9	1	0	0	0	0	0	1877	3.2	0.08	292	841	0.93	1.00	0.92	0.30	1.00	0.93	0.92	0.30	-6.5	-6.5	19.8	19.8
691	3.4	1	0.1	10	17	9	13	7	2	6	6	3	3	1	1	1	0	79	4.47	0.61	300	68	0.95	0.06	0.63	1.00	0.10	0.95	0.78	0.52	34.0	-24.8	-51.2	- 25.7
692	3.4	1	0.2	22	39	47	28	38	29	24	21	13	16	9	8	4	1	299	5.32	0.72	300	231	1.00	1.00	0.98	0.06	0.21	1.00	0.87	0.33	59.5	-6.5	408.3	9.3
693	3.4	1	0.3	43	94	111	86	63	41	54	44	28	20	8	12	7	4	615	4.93	0.55	300	445	1.00	1.00	0.97	0.10	0.32	1.00	0.89	0.35	47.8	-7.7	226.6	5.7
694	3.4	1	0.4	70	146	170	141	109	76	76	50	32	32	16	12	5	4	939	4.71	0.48	300	586	1.00	1.00	0.96	0.13	0.40	1.00	0.89	0.36	41.2	-6.6	152.1	4.4
695	3.4	1	0.5	92	218	261	219	152	117	87	54	43	27	11	10	3	3	1297	4.37	0.38	300	726	1.00	1.00	0.96	0.17	0.50	1.00	0.90	0.37	31.0	-6.2	102.7	3.3
696	3.4	1	0.6	131	296	320	298	224	139	93	52	45	38	12	9	6	2	1665	4.22	0.31	300	829	1.00	1.00	0.95	0.20	0.59	1.00	0.90	0.36	26.5	-5.6	73.8	4.1
697	3.4	1	0.7	205	456	468	392	256	159	96	52	41	21	11	15	2	0	2174	3.83	0.22	300	914	1.00	1.00	0.93	0.24	0.70	1.00	0.90	0.36	14.8	-9.4	47.1	5.1
698	3.4	1	0.8	230	579	644	486	324	161	95	47	23	23	6	5	4	1	2628	3.62	0.16	300	971	1.00	1.00	0.93	0.28	0.81	1.00	0.91	0.36	8.5	-8.8	29.2	5.5
699	3.4	1	0.9	337	715	750	569	340	182	83	37	20	9	6	2	0	0	3050	3.38	0.13	300	992	1.00	1.00	0.91	0.32	0.90	1.00	0.90	0.36	1.3	-11.6	14.7	4.0
700	3.4	1	1	401	877	914	698	379	157	51	14	5	0	0	0	0	0	3496	3.16	0.07	300	999	1.00	1.00	0.90	0.37	1.00	1.00	0.90	0.37	-5.3	-5.3	3.4	3.4
701	3.6	0.7	0.1	0	4	1	3	1	0	0	0	0	1	0	0	0	0	10	3.8	0.25	281	10	0.78	0.03	1.00	0.73	0.10	0.78	1.00	0.22	6.6	-19.4	-33.5	56.4
702	3.6	0.7	0.2	10	13	6	10	4	1	1	0	0	0	0	0	0	0	45	2.82	0.15	281	43	0.69	0.08	0.68	0.99	0.19	0.69	0.87	0.34	-20.9	-32.4	-52.7	- 0.8
703	3.6	0.7	0.3	11	24	19	11	14	8	3	1	1	0	0	0	0	0	92	3.43	0.42	281	91	0.75	1.00	0.98	0.06	0.30	0.75	0.94	0.22	-3.8	-31.0	367.2	50.4
704	3.6	0.7	0.4	28	37	24	19	9	6	2	3	0	1	0	0	0	0	129	2.94	0.19	281	122	0.70	1.00	0.96	0.09	0.40	0.70	0.90	0.23	-17.5	-35.1	236.7	39.7
705	3.6	0.7	0.5	30	44	35	32	16	3	4	2	2	0	0	1	0	0	169	3.09	0.20	281	162	0.72	1.00	0.96	0.10	0.51	0.72	0.92	0.20	-13.3	-30.2	196.5	57.1
706	3.6	0.7	0.6	57	56	41	31	21	9	5	4	0	0	0	0	0	0	224	2.87	0.45	281	200	0.71	1.00	0.93	0.12	0.61	0.71	0.89	0.20	-19.5	-46.8	151.8	55.8
707	3.6	0.7	0.7	41	68	57	42	20	11	3	4	4	2	0	0	0	0	252	3.14	0.21	281	231	0.73	1.00	0.95	0.13	0.70	0.73	0.93	0.18	-11.9	-30.4	136.0	69.9
708	3.6	0.7	0.8	46	97	80	45	23	12	7	1	0	0	0	0	0	0	311	2.91	0.16	281	283	0.70	1.00	0.95	0.19	0.80	0.70	0.94	0.24	-18.4	-30.9	68.3	38.1
709	3.6	0.7	0.9	57	107	97	50	34	11	4	2	0	0	1	0	0	0	363	2.9	0.17	281	318	0.72	1.00	0.94	0.20	0.90	0.72	0.93	0.23	-18.7	-31.3	58.1	43.6
710	3.6	0.7	1	75	108	110	66	22	12	5	0	0	0	0	0	0	0	398	2.77	0.04	281	341	0.71	1.00	0.92	0.22	1.00	0.71	0.92	0.22	-22.3	-22.3	43.5	43.5

711	3.6	0.75	0.1	1	4	5	1	3	2	0	2	0	0	0	0	0	0	18	3.94	0.29	274	18	0.79	1.00	1.00	0.02	0.11	0.79	0.96	0.22	7.8	-16.0	1,058.4	46.5
712	3.6	0.75	0.2	6	20	12	9	3	3	4	1	0	0	0	0	0	0	58	3.22	0.23	274	53	0.71	1.00	0.99	0.07	0.20	0.71	0.93	0.37	-11.9	-31.3	305.5	-3.9
713	3.6	0.75	0.3	18	18	24	19	13	3	5	4	2	0	0	1	1	0	108	3.66	0.17	274	105	0.81	1.00	0.97	0.05	0.30	0.81	0.91	0.17	0.1	-20.6	456.3	76.8
714	3.6	0.75	0.4	22	25	30	30	17	12	7	1	1	0	1	0	0	0	146	3.53	0.07	274	137	0.78	1.00	0.97	0.07	0.40	0.78	0.93	0.17	-3.4	-3.4	316.3	74.7
715	3.6	0.75	0.5	33	54	52	37	19	15	5	4	0	3	1	0	0	0	223	3.31	0.27	274	201	0.77	1.00	0.96	0.11	0.50	0.77	0.92	0.23	-9.5	-30.8	166.5	39.3
716	3.6	0.75	0.6	35	76	68	53	24	13	6	6	0	1	1	0	2	0	285	3.29	0.23	274	261	0.76	1.00	0.96	0.14	0.61	0.76	0.94	0.23	-10.0	-28.9	119.3	39.6
717	3.6	0.75	0.7	32	85	71	47	35	24	7	2	1	0	0	1	1	0	306	3.34	0.30	274	273	0.76	1.00	0.97	0.14	0.69	0.76	0.95	0.21	-8.6	-29.8	111.1	51.4
718	3.6	0.75	0.8	52	91	102	51	31	11	8	5	1	2	0	1	0	0	355	3.1	0.09	274	308	0.75	1.00	0.95	0.17	0.79	0.75	0.93	0.22	-15.2	-15.2	79.3	45.2
719	3.6	0.75	0.9	61	132	107	60	42	18	10	5	1	1	0	0	0	0	437	3.05	0.21	274	375	0.75	1.00	0.94	0.20	0.90	0.75	0.94	0.22	-16.6	-32.7	55.1	41.4
720	3.6	0.75	1	82	131	115	66	43	15	4	1	1	0	0	0	0	0	458	2.84	0.16	274	379	0.73	1.00	0.92	0.23	1.00	0.73	0.92	0.23	-22.3	-33.8	38.6	38.6
721	3.6	0.8	0.1	3	3	2	2	2	0	1	0	1	0	0	0	0	0	14	3.5	0.40	274	14	0.80	1.00	0.99	0.02	0.10	0.80	0.89	0.16	-4.1	-37.0	1,707.4	81.1
722	3.6	0.8	0.2	11	11	6	10	11	2	3	2	4	1	2	0	0	0	63	4.17	0.66	274	61	0.89	0.03	0.45	1.00	0.20	0.89	0.90	0.13	14.3	-34.4	-60.4	122.0
723	3.6	0.8	0.3	22	25	35	18	16	10	12	6	2	0	2	1	0	0	149	3.85	0.28	274	139	0.84	1.00	0.97	0.06	0.30	0.84	0.90	0.21	5.5	-22.3	369.1	46.5
724	3.6	0.8	0.4	24	38	53	41	27	15	13	4	9	5	3	3	0	0	235	4.13	0.28	274	214	0.87	1.00	0.97	0.07	0.40	0.87	0.93	0.18	13.2	-16.4	295.8	67.4
725	3.6	0.8	0.5	20	62	70	43	37	21	8	5	4	1	1	0	0	0	272	3.64	0.17	274	245	0.80	1.00	0.98	0.12	0.50	0.80	0.96	0.23	-0.2	-16.0	157.6	39.2
726	3.6	0.8	0.6	42	90	103	56	53	23	8	9	1	4	1	0	0	0	390	3.45	0.13	274	330	0.80	1.00	0.96	0.15	0.61	0.80	0.93	0.25	-5.5	-18.7	105.5	31.6
727	3.6	0.8	0.7	52	85	115	68	47	30	12	5	6	3	1	0	0	0	424	3.47	0.16	274	360	0.81	1.00	0.95	0.14	0.70	0.81	0.93	0.21	-4.9	-19.8	107.8	51.3
728	3.6	0.8	0.8	51	127	123	86	72	28	13	5	5	6	1	0	0	0	517	3.47	0.34	274	418	0.82	1.00	0.96	0.17	0.79	0.82	0.95	0.22	-4.9	-27.9	81.7	47.7
729	3.6	0.8	0.9	66	140	150	90	51	23	12	3	2	0	0	0	0	0	537	3.12	0.08	274	431	0.78	1.00	0.94	0.22	0.90	0.78	0.94	0.24	-14.5	-14.5	47.7	34.6
730	3.6	0.8	1	72	168	157	104	61	17	13	2	0	0	0	0	0	0	594	3.05	0.19	274	484	0.78	1.00	0.94	0.24	1.00	0.78	0.94	0.24	-16.4	-29.2	34.1	34.0
731	3.6	0.85	0.1	0	5	3	2	4	1	4	1	0	1	2	0	0	0	23	5.26	1.30	276	23	0.94	0.08	1.00	0.22	0.10	0.94	1.00	0.17	45.4	-25.4	51.2	91.1
732	3.6	0.85	0.2	6	11	8	11	12	6	7	5	2	1	4	2	1	0	76	5.13	1.11	276	73	0.95	1.00	0.99	0.02	0.18	0.95	0.94	0.14	41.8	-26.3	1,027.7	113.5
733	3.6	0.85	0.3	20	27	41	36	23	19	7	6	7	1	2	1	3	0	193	4.21	0.31	276	172	0.92	0.05	0.00	1.00	0.30	0.92	0.91	0.22	16.3	-14.3	-72.4	44.2
734	3.6	0.85	0.4	25	56	56	45	30	17	14	13	13	6	5	0	2	1	283	4.28	0.33	276	246	0.89	1.00	0.97	0.08	0.40	0.89	0.93	0.20	18.3	-17.2	278.0	55.9
735	3.6	0.85	0.5	33	66	104	57	38	41	16	16	8	7	2	3	0	0	391	4.04	0.31	276	325	0.87	1.00	0.97	0.11	0.51	0.87	0.94	0.21	11.6	-17.0	178.6	50.2
736	3.6	0.85	0.6	57	91	137	91	67	37	16	15	8	5	2	3	1	0	530	3.77	0.20	276	412	0.87	1.00	0.96	0.14	0.61	0.87	0.92	0.22	4.2	-15.9	120.3	41.3
737	3.6	0.85	0.7	59	120	140	102	74	40	19	14	10	2	5	2	1	0	588	3.71	0.19	276	475	0.86	1.00	0.96	0.15	0.69	0.86	0.93	0.22	2.5	-16.4	103.4	45.2
738	3.6	0.85	0.8	70	151	163	128	90	35	16	6	8	5	2	0	0	0	674	3.47	0.12	276	490	0.84	1.00	0.95	0.19	0.79	0.84	0.94	0.24	-4.1	-16.3	67.1	36.1
739	3.6	0.85	0.9	87	166	183	142	80	40	13	10	4	2	3	0	0	0	730	3.34	0.11	276	528	0.83	1.00	0.94	0.21	0.90	0.83	0.93	0.23	-7.7	-18.7	53.6	39.2
740	3.6	0.85	1	102	207	227	160	100	43	14	5	0	0	0	0	0	0	858	3.19	0.08	276	599	0.83	1.00	0.93	0.25	1.00	0.83	0.93	0.25	-11.9	-11.9	32.5	32.5

741	3.6	0.9	0.1	2	7	10	2	5	1	4	2	2	4	2	0	0	0	41	5.1	0.58	276	41	1.00	0.02	0.00	0.00	0.10	1.00	0.95	0.18	40.8	-16.1	8,264.2	75.0
742	3.6	0.9	0.2	7	16	22	25	16	15	7	1	5	1	5	1	1	0	122	4.65	0.21	276	109	0.91	1.00	0.99	0.05	0.20	0.91	0.94	0.25	28.3	2.5	492.7	32.2
743	3.6	0.9	0.3	14	29	46	34	32	22	23	17	11	3	3	4	2	0	240	4.88	0.55	276	208	0.95	1.00	0.98	0.06	0.30	0.95	0.94	0.20	34.7	-9.9	405.4	60.1
744	3.6	0.9	0.4	29	62	74	73	42	42	24	23	14	8	4	4	1	0	400	4.48	0.43	276	336	0.94	1.00	0.97	0.09	0.39	0.94	0.93	0.23	23.7	-13.6	239.7	39.9
745	3.6	0.9	0.5	39	80	127	85	71	58	32	18	9	6	5	0	2	0	532	4.16	0.32	276	418	0.91	1.00	0.97	0.12	0.50	0.91	0.94	0.24	14.8	-12.5	155.9	36.1
746	3.6	0.9	0.6	43	125	143	112	89	57	39	28	21	8	2	3	3	1	674	4.2	0.32	276	504	0.92	1.00	0.97	0.13	0.59	0.92	0.95	0.22	15.9	-12.9	134.3	44.8
747	3.6	0.9	0.7	74	163	170	159	90	63	40	24	13	7	10	5	0	1	819	3.93	0.25	276	575	0.91	1.00	0.95	0.16	0.71	0.91	0.93	0.22	8.5	-16.0	97.1	42.6
748	3.6	0.9	0.8	72	185	230	186	108	49	23	18	11	8	6	3	0	0	899	3.67	0.15	276	620	0.89	1.00	0.96	0.19	0.80	0.89	0.94	0.24	1.3	-14.6	64.6	35.5
749	3.6	0.9	0.9	79	229	261	214	125	66	30	11	5	4	2	0	0	0	1026	3.51	0.13	276	666	0.88	1.00	0.96	0.22	0.89	0.88	0.95	0.25	-3.1	-14.9	46.2	32.4
750	3.6	0.9	1	107	260	310	247	138	67	25	9	0	1	0	0	0	0	1164	3.35	0.10	276	690	0.88	1.00	0.94	0.25	1.00	0.88	0.94	0.25	-7.5	-7.5	30.8	30.8
751	3.6	0.95	0.1	1	5	11	9	9	4	5	6	4	5	1	2	3	1	66	6.15	0.89	278	59	1.00	1.00	1.00	0.03	0.11	1.00	0.97	0.28	71.1	-0.6	1,014.3	25.5
752	3.6	0.95	0.2	14	26	25	26	13	12	10	14	6	6	2	4	2	3	163	5.01	0.79	278	140	0.97	1.00	0.98	0.04	0.21	0.97	0.90	0.23	39.4	-25.1	549.1	37.5
753	3.6	0.95	0.3	21	51	52	45	46	32	25	22	15	11	3	7	1	3	334	4.94	0.55	278	276	0.98	1.00	0.98	0.07	0.29	0.98	0.92	0.25	37.5	-10.8	330.9	31.3
754	3.6	0.95	0.4	45	94	112	106	61	45	35	26	17	13	13	5	4	1	577	4.46	0.38	278	442	0.96	1.00	0.97	0.10	0.41	0.96	0.91	0.26	24.1	-13.6	190.6	24.7
755	3.6	0.95	0.5	58	124	159	131	92	57	46	35	26	21	11	3	0	2	765	4.37	0.36	278	525	0.96	1.00	0.96	0.12	0.49	0.96	0.92	0.26	21.6	-12.8	143.7	26.2
756	3.6	0.95	0.6	85	157	201	163	133	107	47	42	26	13	7	4	7	0	992	4.24	0.34	278	654	0.97	1.00	0.95	0.14	0.60	0.97	0.92	0.24	18.0	-12.7	113.6	32.1
757	3.6	0.95	0.7	83	227	250	216	138	97	66	44	26	19	7	4	5	0	1182	4.1	0.29	278	698	0.96	1.00	0.96	0.17	0.70	0.96	0.94	0.24	14.1	-13.5	86.7	34.6
758	3.6	0.95	0.8	124	280	340	255	187	117	60	37	19	20	12	2	1	1	1455	3.87	0.23	278	772	0.96	1.00	0.95	0.20	0.79	0.96	0.93	0.25	7.7	-14.2	62.4	30.8
759	3.6	0.95	0.9	156	344	425	350	184	114	47	29	12	3	3	1	3	0	1671	3.53	0.15	278	828	0.95	1.00	0.94	0.24	0.90	0.95	0.93	0.27	-1.8	-15.3	35.9	23.8
760	3.6	0.95	1	177	395	469	386	227	109	35	10	5	1	0	0	0	0	1814	3.36	0.10	278	849	0.94	1.00	0.93	0.27	1.00	0.94	0.93	0.27	-6.5	-6.5	23.4	23.4
761	3.6	1	0.1	1	8	16	6	6	5	8	6	3	1	5	1	0	1	67	5.54	0.81	279	61	0.98	1.00	1.00	0.03	0.10	0.98	0.96	0.34	54.7	-10.2	772.3	5.9
762	3.6	1	0.2	14	32	44	38	26	28	13	14	12	14	8	6	2	3	254	5.27	0.65	279	212	1.00	1.00	0.98	0.06	0.21	1.00	0.90	0.32	47.2	-10.8	405.0	8.0
763	3.6	1	0.3	24	56	72	63	63	50	27	31	23	16	12	13	4	1	455	5.22	0.64	279	342	1.00	1.00	0.98	0.08	0.29	1.00	0.91	0.32	45.8	-7.7	267.1	8.9
764	3.6	1	0.4	51	126	117	125	114	90	51	43	33	26	23	8	6	2	815	4.88	0.95	279	544	1.00	1.00	0.97	0.12	0.40	1.00	0.91	0.32	36.3	-23.1	159.5	6.5
765	3.6	1	0.5	71	182	187	183	153	93	71	58	34	19	26	12	3	0	1092	4.56	0.41	279	671	1.00	1.00	0.96	0.15	0.48	1.00	0.91	0.33	27.4	-10.3	112.4	4.8
766	3.6	1	0.6	129	265	305	271	177	140	90	66	39	33	15	7	8	1	1546	4.26	0.35	279	819	1.00	1.00	0.94	0.18	0.60	1.00	0.90	0.32	19.0	-13.7	73.7	5.7
767	3.6	1	0.7	139	394	415	353	244	137	95	72	42	29	13	12	6	1	1952	4.05	0.26	279	885	1.00	1.00	0.95	0.22	0.70	1.00	0.92	0.34	13.1	-13.2	46.0	4.0
768	3.6	1	0.8	190	470	524	461	299	182	103	66	35	15	14	3	2	1	2365	3.84	0.22	279	961	1.00	1.00	0.94	0.26	0.80	1.00	0.92	0.33	7.2	-13.2	29.7	5.4
769	3.6	1	0.9	232	599	678	563	342	192	87	47	23	7	5	2	1	0	2778	3.58	0.15	279	985	1.00	1.00	0.93	0.30	0.90	1.00	0.92	0.34	-0.0	-14.1	14.5	4.0
770	3.6	1	1	285	731	811	670	404	194	64	23	6	1	0	0	0	0	3189	3.37	0.10	279	999	1.00	1.00	0.93	0.34	1.00	1.00	0.93	0.34	-5.9	-5.9	3.6	3.6

771	3.8	0.7	0.1	0	2	3	1	1	1	0	2	0	0	0	0	0	0	10	4.4	0.43	265	10	0.82	1.00	1.00	0.01	0.10	0.82	1.00	0.13	16.8	-16.6	1,949.0	127.0
772	3.8	0.7	0.2	4	14	10	9	5	4	1	0	0	0	0	0	0	0	47	3.28	0.27	265	44	0.70	1.00	0.99	0.06	0.21	0.70	0.96	0.28	-13.0	-29.7	374.2	18.0
773	3.8	0.7	0.3	8	15	17	13	7	4	4	3	0	0	0	0	0	0	71	3.55	0.18	265	69	0.75	1.00	0.99	0.05	0.29	0.75	0.95	0.17	-5.8	-22.2	455.8	72.6
774	3.8	0.7	0.4	19	31	25	21	9	7	5	1	1	1	0	0	0	0	120	3.24	0.25	265	117	0.73	1.00	0.97	0.08	0.39	0.73	0.93	0.21	-14.0	-33.7	253.2	44.8
775	3.8	0.7	0.5	24	35	43	26	10	7	6	2	3	0	0	0	0	0	156	3.23	0.13	265	147	0.73	1.00	0.97	0.09	0.50	0.73	0.94	0.18	-14.3	-27.5	215.0	66.7
776	3.8	0.7	0.6	37	57	48	28	22	13	7	5	1	0	1	0	0	0	219	3.21	0.29	265	193	0.75	1.00	0.96	0.11	0.60	0.75	0.93	0.18	-14.8	-36.5	164.6	64.4
777	3.8	0.7	0.7	31	63	53	45	18	4	5	1	4	0	0	0	0	0	224	3.08	0.17	265	213	0.71	1.00	0.96	0.14	0.71	0.71	0.95	0.19	-18.3	-31.4	112.8	56.9
778	3.8	0.7	0.8	33	81	90	48	28	15	8	2	1	1	0	0	0	0	307	3.19	0.10	265	275	0.73	1.00	0.97	0.16	0.80	0.73	0.96	0.20	-15.3	-15.3	83.2	51.3
779	3.8	0.7	0.9	41	85	78	58	39	13	7	0	0	1	0	0	0	0	322	3.13	0.23	265	289	0.73	1.00	0.96	0.17	0.91	0.73	0.95	0.18	-16.9	-31.4	78.9	63.8
780	3.8	0.7	1	53	96	84	63	26	16	3	0	0	0	0	0	0	0	341	2.92	0.15	265	306	0.71	1.00	0.94	0.19	1.00	0.71	0.94	0.19	-22.5	-32.8	55.1	55.1
781	3.8	0.75	0.1	4	3	1	1	2	1	0	0	0	0	0	0	0	0	12	2.75	0.50	261	11	0.71	0.03	0.36	1.00	0.10	0.71	0.81	0.22	-28.2	-57.6	-64.4	24.7
782	3.8	0.75	0.2	8	14	11	9	7	2	2	1	1	0	0	0	1	0	56	3.5	0.33	261	54	0.76	1.00	0.98	0.05	0.22	0.76	0.92	0.22	-8.7	-34.8	479.7	35.5
783	3.8	0.75	0.3	16	17	22	27	9	4	5	2	0	0	0	0	0	0	102	3.37	0.07	261	98	0.76	1.00	0.97	0.07	0.31	0.76	0.91	0.21	-12.0	-12.0	304.4	37.7
784	3.8	0.75	0.4	23	36	45	21	8	16	6	2	3	2	1	1	0	0	164	3.52	0.23	261	152	0.79	1.00	0.97	0.08	0.41	0.79	0.93	0.20	-8.1	-30.5	244.5	48.7
785	3.8	0.75	0.5	27	38	35	29	23	12	5	7	1	2	2	0	0	0	181	3.61	0.40	261	171	0.79	1.00	0.97	0.07	0.50	0.79	0.94	0.15	-5.8	-34.5	265.4	88.0
786	3.8	0.75	0.6	30	72	49	49	27	13	8	2	3	0	1	1	0	0	255	3.34	0.28	261	240	0.76	1.00	0.97	0.12	0.60	0.76	0.94	0.21	-12.8	-32.5	129.2	44.0
787	3.8	0.75	0.7	44	80	90	59	33	14	7	4	0	1	1	0	0	0	333	3.19	0.09	261	291	0.76	1.00	0.96	0.16	0.69	0.76	0.93	0.23	-16.7	-16.7	84.4	33.0
788	3.8	0.75	0.8	60	91	96	75	40	15	12	3	2	1	2	0	0	0	397	3.22	0.10	261	348	0.77	1.00	0.94	0.16	0.80	0.77	0.93	0.20	-16.0	-16.0	79.8	47.0
789	3.8	0.75	0.9	52	99	102	67	44	15	8	4	1	0	0	0	0	0	392	3.14	0.08	261	342	0.75	1.00	0.95	0.18	0.90	0.75	0.94	0.20	-18.1	-18.1	63.9	49.4
790	3.8	0.75	1	68	103	111	86	46	24	7	4	0	0	0	0	0	0	449	3.13	0.08	261	381	0.77	1.00	0.94	0.19	1.00	0.77	0.94	0.19	-18.3	-18.3	58.2	58.2
791	3.8	0.8	0.1	2	2	6	3	1	3	1	0	2	0	0	0	0	0	20	4.2	0.43	265	20	0.85	1.00	0.99	0.02	0.11	0.85	0.93	0.16	11.5	-22.3	1,403.1	77.6
792	3.8	0.8	0.2	8	13	18	10	8	7	5	4	2	1	1	0	0	0	77	4.1	0.35	265	75	0.85	1.00	0.98	0.04	0.20	0.85	0.92	0.22	8.8	-21.8	532.5	38.8
793	3.8	0.8	0.3	16	26	36	22	16	7	4	4	2	4	0	1	0	1	139	3.81	0.20	265	130	0.83	1.00	0.98	0.06	0.30	0.83	0.92	0.22	1.1	-21.3	331.4	39.4
794	3.8	0.8	0.4	15	26	51	38	24	14	10	6	4	4	2	0	0	0	194	4.08	0.26	265	182	0.85	1.00	0.98	0.07	0.39	0.85	0.95	0.17	8.3	-15.2	306.9	72.9
795	3.8	0.8	0.5	23	49	64	39	41	15	8	8	2	2	2	2	1	0	256	3.83	0.19	265	226	0.82	1.00	0.98	0.09	0.50	0.82	0.95	0.19	1.7	-17.2	204.2	61.2
796	3.8	0.8	0.6	37	57	96	72	42	22	7	8	7	0	0	2	0	0	350	3.63	0.15	265	313	0.82	1.00	0.96	0.12	0.60	0.82	0.94	0.20	-3.7	-18.2	134.9	49.0
797	3.8	0.8	0.7	42	87	107	64	45	22	16	8	8	2	0	0	0	0	401	3.54	0.16	265	340	0.81	1.00	0.96	0.14	0.70	0.81	0.94	0.21	-6.1	-21.7	106.4	48.7
798	3.8	0.8	0.8	53	93	137	99	49	27	9	5	8	4	0	0	0	0	484	3.45	0.12	265	396	0.81	1.00	0.96	0.16	0.81	0.81	0.94	0.20	-8.4	-20.5	80.6	49.3
799	3.8	0.8	0.9	67	137	145	112	70	30	12	2	1	2	0	0	0	0	578	3.26	0.09	265	447	0.80	1.00	0.95	0.20	0.91	0.80	0.94	0.22	-13.5	-13.5	51.1	39.0
800	3.8	0.8	1	59	124	167	106	70	30	8	4	1	1	0	0	0	0	570	3.28	0.08	265	460	0.80	1.00	0.95	0.21	1.00	0.80	0.95	0.21	-13.0	-13.0	49.5	49.5

801	3.8	0.85	0.1	1	4	8	6	0	1	0	2	1	0	2	0	0	0	25	4.4	0.32	260	25	0.85	1.00	1.00	0.03	0.10	0.85	0.95	0.29	14.5	-21.9	813.3	11.3
802	3.8	0.85	0.2	4	12	12	14	9	8	2	1	4	4	0	0	0	0	70	4.44	0.19	260	65	0.93	0.02	0.01	0.00	0.21	0.93	0.96	0.18	15.5	-6.1	255,665.1	66.0
803	3.8	0.85	0.3	12	41	31	32	23	13	11	9	2	3	4	1	1	0	183	4.23	0.58	260	168	0.87	1.00	0.98	0.07	0.31	0.87	0.95	0.25	10.1	-29.3	279.3	24.2
804	3.8	0.85	0.4	15	41	48	48	32	25	16	6	8	3	3	4	0	0	249	4.36	0.19	260	227	0.88	1.00	0.98	0.07	0.40	0.88	0.96	0.19	13.5	-7.5	273.7	58.7
805	3.8	0.85	0.5	24	61	63	62	57	26	21	9	3	4	0	1	0	0	331	3.99	0.24	260	286	0.86	1.00	0.98	0.10	0.49	0.86	0.95	0.22	3.8	-15.4	170.6	39.9
806	3.8	0.85	0.6	35	68	97	90	50	29	24	15	12	10	5	3	0	0	438	4.18	0.29	260	367	0.89	1.00	0.97	0.10	0.60	0.89	0.95	0.17	8.8	-18.0	174.1	70.5
807	3.8	0.85	0.7	49	97	115	116	72	43	23	16	9	4	3	0	0	0	547	3.86	0.11	260	436	0.87	1.00	0.96	0.13	0.70	0.87	0.95	0.19	0.4	-11.7	111.7	52.8
808	3.8	0.85	0.8	56	110	150	132	69	48	20	16	4	3	2	0	0	1	611	3.69	0.18	260	479	0.86	1.00	0.96	0.16	0.80	0.86	0.95	0.20	-4.0	-19.5	84.0	50.1
809	3.8	0.85	0.9	66	145	185	155	78	42	27	5	3	2	0	0	0	0	708	3.46	0.13	260	533	0.84	1.00	0.95	0.20	0.91	0.84	0.95	0.22	-10.0	-20.5	51.7	39.1
810	3.8	0.85	1	81	178	209	162	98	50	12	5	2	1	0	0	0	0	798	3.33	0.10	260	578	0.84	1.00	0.95	0.22	1.00	0.84	0.95	0.22	-13.4	-13.4	36.4	36.4
811	3.8	0.9	0.1	2	1	3	1	3	4	0	3	4	0	0	0	0	0	21	5.52	2.50	262	20	1.00	1.00	0.99	0.01	0.10	1.00	0.93	0.10	44.5	-43.3	2,740.0	179.2
812	3.8	0.9	0.2	5	13	32	12	16	7	7	3	5	4	3	0	1	0	108	4.64	0.38	262	100	0.90	1.00	0.99	0.05	0.19	0.90	0.95	0.24	21.4	-14.4	476.4	30.5
813	3.8	0.9	0.3	10	39	44	35	21	22	15	15	10	5	4	4	0	0	224	4.71	0.50	262	200	0.92	1.00	0.99	0.06	0.30	0.92	0.96	0.22	23.3	-18.3	332.9	39.9
814	3.8	0.9	0.4	22	48	66	73	37	34	22	17	9	8	1	1	1	0	339	4.38	0.21	262	287	0.91	1.00	0.98	0.08	0.41	0.91	0.95	0.21	14.6	-6.8	231.4	44.6
815	3.8	0.9	0.5	35	85	100	86	54	46	29	20	13	6	11	4	0	1	490	4.32	0.36	262	402	0.92	1.00	0.97	0.10	0.50	0.92	0.94	0.21	13.1	-18.7	173.5	42.3
816	3.8	0.9	0.6	48	101	128	129	83	54	20	20	17	6	6	2	2	0	616	4.09	0.13	262	474	0.91	1.00	0.97	0.13	0.59	0.91	0.94	0.22	7.1	-9.0	121.3	36.2
817	3.8	0.9	0.7	56	140	176	134	91	69	28	28	14	9	6	5	0	0	756	4.01	0.27	262	557	0.91	1.00	0.96	0.15	0.70	0.91	0.95	0.21	5.0	-18.7	98.2	43.6
818	3.8	0.9	0.8	67	170	207	176	114	73	34	23	12	10	5	1	1	0	893	3.86	0.22	262	612	0.90	1.00	0.96	0.17	0.79	0.90	0.95	0.22	1.0	-17.9	73.4	40.7
819	3.8	0.9	0.9	75	212	247	198	137	81	39	14	8	4	2	0	1	0	1018	3.67	0.17	262	656	0.90	1.00	0.96	0.20	0.90	0.90	0.95	0.23	-3.9	-18.2	50.3	36.9
820	3.8	0.9	1	88	243	297	226	147	73	25	10	1	0	0	0	0	0	1110	3.43	0.11	262	691	0.88	1.00	0.95	0.24	1.00	0.88	0.95	0.24	-10.2	-18.8	30.5	30.5
821	3.8	0.95	0.1	3	8	7	8	4	3	3	2	1	4	2	0	0	0	45	4.84	0.73	266	44	0.92	1.00	0.99	0.03	0.10	0.92	0.92	0.20	28.9	-26.3	812.4	51.9
822	3.8	0.95	0.2	7	22	18	21	18	19	8	10	8	5	1	2	0	1	140	5	1.06	266	122	0.95	1.00	0.99	0.04	0.20	0.95	0.94	0.24	33.1	-26.0	518.8	30.9
823	3.8	0.95	0.3	18	46	44	64	39	31	17	14	11	10	4	4	2	2	306	4.75	0.78	266	264	0.95	1.00	0.98	0.07	0.30	0.95	0.93	0.26	26.5	-22.9	286.6	22.7
824	3.8	0.95	0.4	27	77	89	101	74	55	22	28	22	22	10	3	3	2	535	4.79	0.26	266	414	0.97	1.00	0.98	0.09	0.41	0.97	0.95	0.23	27.5	-2.3	213.9	36.7
825	3.8	0.95	0.5	42	119	134	133	90	71	45	37	20	18	14	5	5	1	734	4.57	0.42	266	510	0.97	1.00	0.97	0.12	0.51	0.97	0.94	0.24	21.7	-14.5	147.2	30.6
826	3.8	0.95	0.6	50	168	182	182	120	88	59	52	29	16	7	9	6	2	970	4.46	0.23	266	640	0.97	1.00	0.97	0.14	0.60	0.97	0.95	0.24	18.8	-6.0	112.3	31.7
827	3.8	0.95	0.7	66	185	218	221	147	109	56	31	23	13	8	5	2	1	1085	4.17	0.15	266	689	0.96	1.00	0.97	0.16	0.70	0.96	0.95	0.23	11.0	-5.3	86.7	35.3
828	3.8	0.95	0.8	97	241	276	263	174	127	60	46	27	16	6	2	1	0	1336	4.03	0.27	266	755	0.96	1.00	0.96	0.18	0.79	0.96	0.94	0.23	7.3	-15.7	67.8	35.4
829	3.8	0.95	0.9	110	309	367	326	204	129	43	23	15	8	5	1	0	0	1540	3.7	0.17	266	795	0.95	1.00	0.95	0.23	0.91	0.95	0.95	0.25	-1.5	-16.0	38.0	26.6
830	3.8	0.95	1	115	348	406	387	221	136	43	17	8	4	0	0	0	0	1685	3.59	0.14	266	824	0.95	1.00	0.95	0.25	1.00	0.95	0.95	0.25	-4.4	-15.6	29.5	29.5

831	3.8	1	0.1	1	5	14	10	7	6	3	7	3	3	3	3	0	0	65	5.65	0.76	262	60	1.00	1.00	1.00	0.03	0.10	1.00	0.95	0.36	47.9	-9.4	786.5	-6.0
832	3.8	1	0.2	8	19	28	29	27	25	14	19	8	8	3	4	10	0	202	5.66	0.49	262	175	1.00	1.00	0.99	0.05	0.20	1.00	0.93	0.28	48.2	2.2	461.4	13.2
833	3.8	1	0.3	26	52	69	61	71	46	34	29	27	24	10	2	3	4	458	5.23	0.64	262	349	1.00	1.00	0.98	0.08	0.30	1.00	0.91	0.31	36.9	-12.2	231.3	3.9
834	3.8	1	0.4	40	92	114	98	90	69	52	41	34	21	14	7	7	3	682	4.99	0.57	262	462	1.00	1.00	0.97	0.10	0.39	1.00	0.92	0.28	30.6	-15.1	179.3	12.3
835	3.8	1	0.5	48	171	177	182	148	107	92	44	35	26	19	21	9	2	1081	4.82	0.30	262	657	1.00	1.00	0.97	0.14	0.51	1.00	0.94	0.31	26.2	-4.7	103.3	5.4
836	3.8	1	0.6	82	198	259	237	197	148	79	59	44	41	25	9	5	7	1390	4.64	0.43	262	784	1.00	1.00	0.96	0.17	0.60	1.00	0.93	0.30	21.5	-14.2	75.6	7.6
837	3.8	1	0.7	98	272	359	312	264	139	111	67	55	19	15	8	2	2	1723	4.31	0.32	262	866	1.00	1.00	0.96	0.20	0.69	1.00	0.94	0.30	12.8	-14.0	52.0	6.9
838	3.8	1	0.8	140	358	452	399	307	188	114	59	46	22	4	8	4	0	2101	4.08	0.27	262	915	1.00	1.00	0.95	0.23	0.79	1.00	0.93	0.31	6.8	-15.5	32.6	5.7
839	3.8	1	0.9	202	469	604	517	370	222	101	49	29	11	5	3	1	0	2583	3.78	0.19	262	988	1.00	1.00	0.94	0.28	0.91	1.00	0.93	0.31	-1.0	-16.8	14.3	4.9
840	3.8	1	1	232	563	720	609	426	232	99	25	19	2	0	0	0	0	2927	3.61	0.15	262	999	1.00	1.00	0.94	0.31	1.00	1.00	0.94	0.31	-5.5	-17.0	5.0	5.0
841	4	0.7	0.1	0	2	2	1	0	0	0	0	0	0	0	0	0	0	5	2.8	-	253	5	0.49	1.00	1.00	0.03	0.11	0.49	1.00	0.23	-29.3	-29.3	651.6	34.6
842	4	0.7	0.2	0	6	6	4	6	0	5	1	0	0	0	0	0	0	28	4.25	0.27	253	28	0.80	1.00	1.00	0.02	0.20	0.80	1.00	0.12	7.4	-12.7	1,019.2	144.3
843	4	0.7	0.3	6	21	18	12	5	5	3	1	1	1	1	0	0	0	74	3.57	0.30	253	73	0.75	1.00	0.99	0.06	0.30	0.75	0.96	0.19	-9.8	-33.5	366.8	51.0
844	4	0.7	0.4	17	31	21	11	6	3	6	0	1	0	0	0	0	0	96	2.97	0.20	253	93	0.68	1.00	0.97	0.08	0.39	0.68	0.93	0.21	-25.0	-41.3	226.9	35.6
845	4	0.7	0.5	19	44	37	28	9	8	2	0	0	0	0	1	0	0	148	3.03	0.16	253	140	0.68	1.00	0.97	0.12	0.49	0.68	0.95	0.23	-23.4	-34.9	136.1	27.4
846	4	0.7	0.6	27	54	46	29	18	7	5	4	1	2	0	1	0	0	194	3.24	0.24	253	185	0.73	1.00	0.97	0.11	0.60	0.73	0.95	0.18	-18.1	-37.0	155.1	58.2
847	4	0.7	0.7	22	53	54	41	29	8	2	2	0	0	0	0	0	0	211	3.21	0.06	253	192	0.72	1.00	0.97	0.13	0.68	0.72	0.96	0.19	-18.9	-18.9	115.8	54.7
848	4	0.7	0.8	29	72	77	60	33	14	6	1	1	0	1	0	0	0	294	3.28	0.08	253	266	0.74	1.00	0.97	0.15	0.80	0.74	0.96	0.19	-17.1	-17.1	90.1	55.8
849	4	0.7	0.9	28	64	81	64	21	17	3	2	0	0	0	0	0	0	280	3.21	0.09	253	246	0.73	1.00	0.97	0.15	0.90	0.73	0.97	0.17	-18.9	-18.9	83.8	67.7
850	4	0.7	1	41	84	72	50	35	14	6	2	1	0	0	0	0	0	305	3.12	0.23	253	284	0.72	1.00	0.96	0.16	1.00	0.72	0.96	0.16	-21.2	-36.1	75.2	75.2
851	4	0.75	0.1	0	3	0	0	0	1	0	2	0	0	0	0	0	0	6	4.67	1.00	253	6	0.88	0.01	1.00	1.00	0.10	0.88	1.00	0.07	18.0	-49.5	-49.5	279.1
852	4	0.75	0.2	5	9	12	11	5	1	3	1	0	0	0	0	0	0	47	3.47	0.12	253	47	0.74	1.00	0.99	0.05	0.20	0.74	0.94	0.24	-12.4	-23.0	436.7	24.4
853	4	0.75	0.3	11	14	16	19	10	3	3	2	2	0	2	0	0	0	82	3.76	0.12	253	77	0.80	1.00	0.98	0.04	0.29	0.80	0.94	0.15	-5.0	-20.1	489.5	80.2
854	4	0.75	0.4	17	30	29	23	12	11	5	4	1	1	0	0	0	0	133	3.52	0.34	253	127	0.77	1.00	0.98	0.07	0.37	0.77	0.93	0.20	-11.1	-34.7	256.6	41.1
855	4	0.75	0.5	14	39	48	35	35	7	7	5	2	2	1	1	0	0	196	3.79	0.15	253	181	0.80	1.00	0.98	0.08	0.51	0.80	0.97	0.17	-4.3	-18.6	219.8	73.3
856	4	0.75	0.6	18	62	67	38	31	13	9	7	6	0	3	0	1	0	255	3.71	0.18	253	232	0.79	1.00	0.98	0.11	0.62	0.79	0.97	0.17	-6.3	-24.0	160.6	69.4
857	4	0.75	0.7	29	63	80	53	33	22	11	5	1	2	1	0	0	0	300	3.54	0.16	253	269	0.78	1.00	0.97	0.12	0.70	0.78	0.96	0.18	-10.6	-24.4	124.5	62.8
858	4	0.75	0.8	36	79	109	72	36	23	9	10	2	1	0	0	0	0	377	3.44	0.14	253	333	0.78	1.00	0.97	0.15	0.80	0.78	0.96	0.19	-13.1	-24.8	88.3	54.5
859	4	0.75	0.9	32	86	105	80	41	24	12	2	2	0	0	0	0	0	384	3.4	0.12	253	340	0.77	1.00	0.97	0.16	0.89	0.77	0.97	0.18	-14.1	-23.3	76.1	58.7
860	4	0.75	1	41	113	101	83	41	10	6	0	0	0	0	0	0	0	395	3.06	0.17	253	336	0.73	1.00	0.96	0.21	1.00	0.73	0.96	0.21	-22.7	-32.6	40.7	40.7

861	4	0.8	0.1	0	2	7	6	2	1	0	1	0	0	0	1	0	0	20	4.25	0.18	248	19	0.81	1.00	1.00	0.03	0.11	0.81	1.00	0.23	5.5	-13.9	821.6	33.2
862	4	0.8	0.2	4	4	11	13	6	5	2	3	1	1	0	0	0	0	50	4.28	0.16	248	49	0.85	1.00	0.99	0.03	0.19	0.85	0.95	0.16	6.2	-9.4	737.9	76.3
863	4	0.8	0.3	9	16	26	16	15	5	3	1	0	1	2	1	0	0	95	3.8	0.16	248	92	0.80	1.00	0.99	0.06	0.29	0.80	0.95	0.19	-5.7	-21.9	363.5	49.5
864	4	0.8	0.4	12	25	34	27	26	18	5	3	2	3	0	2	0	0	157	4.08	0.27	248	150	0.84	1.00	0.99	0.06	0.39	0.84	0.96	0.15	1.2	-19.6	335.2	81.3
865	4	0.8	0.5	17	47	63	43	31	21	10	5	8	4	1	1	0	0	251	3.98	0.25	248	225	0.84	1.00	0.98	0.09	0.50	0.84	0.96	0.18	-1.2	-22.6	198.7	58.6
866	4	0.8	0.6	32	60	82	61	52	22	12	7	4	3	1	1	0	0	337	3.75	0.17	248	298	0.83	1.00	0.97	0.11	0.60	0.83	0.95	0.19	-7.0	-22.0	134.7	48.4
867	4	0.8	0.7	31	80	87	74	50	32	11	12	5	2	0	0	0	0	384	3.72	0.19	248	329	0.82	1.00	0.97	0.13	0.69	0.82	0.96	0.19	-7.7	-23.1	113.1	53.0
868	4	0.8	0.8	38	76	115	101	58	25	12	6	4	1	0	0	0	0	436	3.57	0.12	248	366	0.81	1.00	0.97	0.15	0.81	0.81	0.96	0.18	-11.4	-21.4	85.4	53.6
869	4	0.8	0.9	39	91	111	86	78	31	8	5	3	3	1	0	1	0	457	3.61	0.13	248	386	0.81	1.00	0.97	0.15	0.89	0.81	0.96	0.17	-10.4	-21.1	84.1	65.7
870	4	0.8	1	52	116	144	89	69	40	8	5	3	0	1	0	0	0	527	3.4	0.12	248	417	0.80	1.00	0.96	0.18	1.00	0.80	0.96	0.18	-15.6	-25.2	54.5	54.5
871	4	0.85	0.1	4	4	2	2	3	2	1	0	0	0	0	0	0	0	18	3.33	0.50	250	18	0.78	1.00	0.98	0.02	0.10	0.78	0.83	0.28	-16.8	-45.9	909.3	0.2
872	4	0.85	0.2	1	5	13	12	10	7	6	2	4	2	0	0	0	0	62	4.9	0.51	250	61	0.97	0.02	0.00	0.00	0.19	0.97	0.99	0.14	22.4	-9.9	1,293.4	96.1
873	4	0.85	0.3	11	25	39	28	27	8	7	4	3	1	2	1	0	0	156	4.01	0.20	250	145	0.84	1.00	0.98	0.07	0.30	0.84	0.94	0.24	0.1	-18.4	255.5	21.7
874	4	0.85	0.4	18	44	70	39	30	12	21	13	2	2	3	0	3	0	257	4.11	0.28	250	225	0.86	1.00	0.98	0.09	0.41	0.86	0.95	0.21	2.6	-22.7	212.3	39.3
875	4	0.85	0.5	16	57	82	58	35	34	13	12	6	8	3	2	1	2	329	4.27	0.33	250	286	0.88	1.00	0.98	0.09	0.51	0.88	0.97	0.18	6.6	-21.2	194.2	57.6
876	4	0.85	0.6	30	63	93	86	55	36	25	15	9	8	4	3	0	0	427	4.23	0.31	250	371	0.89	1.00	0.98	0.10	0.60	0.89	0.96	0.17	5.6	-19.5	168.9	67.0
877	4	0.85	0.7	21	84	132	95	65	39	21	12	7	6	2	4	1	1	490	4.06	0.23	250	396	0.87	1.00	0.98	0.13	0.70	0.87	0.98	0.18	1.4	-18.9	115.5	57.2
878	4	0.85	0.8	51	108	145	128	72	48	26	19	11	7	1	1	0	0	617	3.87	0.22	250	485	0.87	1.00	0.96	0.14	0.80	0.87	0.95	0.18	-3.4	-22.0	92.4	57.2
879	4	0.85	0.9	49	136	160	129	95	62	26	10	5	4	1	0	0	0	677	3.73	0.19	250	518	0.86	1.00	0.97	0.17	0.90	0.86	0.96	0.19	-6.9	-21.4	67.0	51.4
880	4	0.85	1	60	145	220	166	96	42	19	9	2	1	0	0	0	0	760	3.47	0.11	250	541	0.84	1.00	0.96	0.21	1.00	0.84	0.96	0.21	-13.3	-21.7	40.0	40.0
881	4	0.9	0.1	1	2	9	5	3	6	4	1	1	1	0	2	0	0	35	5.2	0.75	253	34	0.99	0.01	0.00	0.00	0.10	0.99	0.96	0.17	31.6	-15.3	2,482.1	71.9
882	4	0.9	0.2	7	19	16	18	18	8	10	4	2	3	3	3	0	1	112	4.79	0.87	253	102	0.93	1.00	0.99	0.04	0.20	0.93	0.94	0.23	21.2	-30.4	499.1	26.7
883	4	0.9	0.3	12	31	41	38	26	14	16	13	5	6	2	1	2	0	207	4.56	0.40	253	183	0.91	1.00	0.99	0.06	0.31	0.91	0.95	0.20	15.4	-18.1	324.6	42.8
884	4	0.9	0.4	20	37	62	57	51	34	20	11	6	5	7	5	1	4	320	4.7	0.41	253	269	0.94	1.00	0.98	0.07	0.40	0.94	0.95	0.18	18.9	-15.0	281.8	60.3
885	4	0.9	0.5	22	72	87	92	61	34	38	18	8	11	4	5	3	2	457	4.52	0.24	253	368	0.93	1.00	0.98	0.10	0.51	0.93	0.96	0.20	14.4	-10.4	180.8	49.2
886	4	0.9	0.6	36	95	108	103	78	54	38	26	18	7	8	1	1	2	575	4.39	0.37	253	444	0.92	1.00	0.97	0.11	0.60	0.92	0.95	0.19	11.1	-18.6	145.6	53.1
887	4	0.9	0.7	47	140	175	142	86	63	41	29	12	12	9	2	2	0	760	4.11	0.29	253	540	0.92	1.00	0.97	0.14	0.70	0.92	0.96	0.21	4.0	-20.7	95.3	40.7
888	4	0.9	0.8	49	133	185	204	123	59	35	21	10	5	8	1	1	1	835	3.99	0.11	253	583	0.91	1.00	0.97	0.16	0.80	0.91	0.96	0.20	1.0	-10.8	78.0	45.8
889	4	0.9	0.9	65	180	253	209	149	76	32	18	7	2	1	0	0	1	993	3.72	0.16	253	666	0.90	1.00	0.96	0.20	0.90	0.90	0.96	0.22	-5.9	-18.3	49.7	36.2
890	4	0.9	1	77	211	240	242	142	66	29	15	2	0	1	0	0	0	1025	3.56	0.05	253	658	0.89	1.00	0.96	0.22	1.00	0.89	0.96	0.22	-9.9	-9.9	36.2	36.2

891	4	0.95	0.1	1	7	6	7	7	4	2	4	2	1	1	1	0	1	44	5.25	1.10	251	43	0.95	1.00	1.00	0.03	0.10	0.95	0.97	0.29	31.9	-27.1	857.8	9.7
892	4	0.95	0.2	6	15	11	30	12	7	11	6	7	9	6	3	0	1	124	5.52	1.00	251	110	1.00	1.00	0.99	0.03	0.20	1.00	0.95	0.16	38.6	-23.5	737.0	71.8
893	4	0.95	0.3	7	20	43	54	43	29	24	19	13	8	8	3	0	0	271	5.25	0.38	251	226	0.98	1.00	0.99	0.05	0.30	0.98	0.97	0.18	31.9	0.1	378.3	64.2
894	4	0.95	0.4	35	64	80	72	66	40	36	28	22	11	14	2	6	2	478	4.87	0.51	251	363	0.98	1.00	0.97	0.08	0.40	0.98	0.92	0.21	22.3	-19.1	229.7	35.7
895	4	0.95	0.5	24	82	148	123	106	56	48	32	21	17	11	4	2	1	675	4.67	0.40	251	492	0.97	1.00	0.98	0.11	0.51	0.97	0.96	0.22	17.3	-14.0	152.2	36.4
896	4	0.95	0.6	50	110	198	166	133	68	53	37	21	21	6	5	1	2	871	4.4	0.33	251	583	0.97	1.00	0.97	0.13	0.60	0.97	0.95	0.22	10.5	-16.2	110.6	33.0
897	4	0.95	0.7	63	147	244	210	167	102	51	48	25	12	7	5	1	2	1084	4.28	0.30	251	682	0.97	1.00	0.97	0.15	0.71	0.97	0.95	0.22	7.5	-16.5	84.5	34.7
898	4	0.95	0.8	75	202	299	242	192	118	70	41	25	14	4	0	3	0	1285	4.11	0.27	251	758	0.96	1.00	0.96	0.17	0.81	0.96	0.95	0.22	3.2	-17.9	63.9	34.7
899	4	0.95	0.9	92	239	334	311	212	123	60	38	17	11	4	3	0	1	1445	3.94	0.22	251	787	0.96	1.00	0.96	0.20	0.90	0.96	0.95	0.22	-1.1	-18.1	47.8	34.3
900	4	0.95	1	96	269	379	342	264	119	56	24	5	3	0	0	0	0	1557	3.75	0.15	251	801	0.95	1.00	0.96	0.22	1.00	0.95	0.96	0.22	-5.8	-17.1	32.9	32.9
901	4	1	0.1	0	5	9	6	9	5	8	5	3	4	1	3	0	1	59	6.1	1.03	250	55	1.00	1.00	1.00	0.03	0.10	1.00	1.00	0.32	52.5	-8.7	827.3	4.0
902	4	1	0.2	2	10	26	29	21	22	23	9	9	7	4	6	0	3	171	5.82	0.55	250	147	1.00	1.00	1.00	0.05	0.19	1.00	0.98	0.28	45.5	2.9	456.8	10.9
903	4	1	0.3	18	56	70	66	60	45	34	27	21	12	8	5	5	0	427	5.04	0.58	250	325	1.00	1.00	0.98	0.08	0.30	1.00	0.94	0.30	26.0	-16.3	226.9	2.3
904	4	1	0.4	38	82	92	100	97	56	30	34	23	29	12	8	10	4	615	5.03	0.32	250	443	1.00	1.00	0.97	0.10	0.38	1.00	0.92	0.28	25.7	-8.7	175.1	7.4
905	4	1	0.5	51	138	171	174	133	103	79	46	45	25	12	23	11	2	1013	4.91	0.32	250	667	1.00	1.00	0.97	0.14	0.52	1.00	0.94	0.28	22.7	-8.5	104.7	7.8
906	4	1	0.6	61	169	259	241	190	130	71	57	42	35	17	12	11	1	1296	4.66	0.41	250	756	1.00	1.00	0.97	0.16	0.60	1.00	0.95	0.29	16.5	-16.1	75.0	6.9
907	4	1	0.7	88	228	326	317	230	169	98	67	43	32	12	12	3	2	1627	4.44	0.37	250	855	1.00	1.00	0.96	0.19	0.70	1.00	0.94	0.29	11.0	-17.2	49.6	5.9
908	4	1	0.8	111	311	457	387	300	197	100	53	47	33	13	5	2	2	2018	4.2	0.29	250	923	1.00	1.00	0.96	0.23	0.80	1.00	0.95	0.29	5.0	-17.8	30.4	6.1
909	4	1	0.9	133	391	563	480	352	220	111	48	37	22	6	6	3	0	2372	4	0.24	250	977	1.00	1.00	0.96	0.26	0.90	1.00	0.95	0.30	-0.0	-18.2	16.4	5.6
910	4	1	1	167	479	689	605	423	237	93	33	15	8	0	0	0	0	2749	3.74	0.16	250	999	1.00	0.37	0.61	1.00	1.00	1.00	0.95	0.30	-6.5	-18.3	-59.8	4.3