# Scientific and Technical Basis of Numeric Nutrient Criteria Development for Class SD waters (Reservoirs) in Puerto Rico

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**Abstract**

The University of Puerto Rico Agricultural Experiment Station, in collaboration with the Puerto Rico Environmental Quality Board and the USEPA Region 2, conducted studies leading to the determination of numeric nutrient reference criteria (*reference criteria*) and numeric nutrient criteria (*numeric criteria*) for reservoirs in Puerto Rico. Reference criteria were established based on the frequency distribution approach while numeric criteria were derived from stressor-response relationships between nutrients and ecologically relevant variables. Reference criteria were 23 µg/L for total phosphorus (TP), and 0.42 mg/L for total nitrogen (TN). Numeric criteria were set by first defining a biological threshold indicative of designated use impairment for selected reservoir waters. Said threshold was established at a chlorophyll *a* (Chl-*a*) concentration of 24 µg/L based on evidence demonstrating that the extent of light penetration was significantly limited at that Chl-*a* level (due to excessive phytoplankton biomass productivity), hindering in turn the reservoirs' capacity to comply with the aquatic life criteria. TP and TN concentrations associated to the Chl-*a* impairment threshold (i.e., 24 µg/L) were established based on a change point analysis of the data. The resulting values, 0.035 mg/L for TP and 0.43 mg/L for TN, can be considered as nutrient thresholds associated with impairment. To protect against impairment we incorporated a margin of safety based on the concentrations defining the lower 5% confidence interval of the bootstrap distribution of values associated with our Chl-*a* impairment threshold (i.e., P(05)-one sided tail probability). The resulting criteria, 0.026 mg/L for TP and 0.41mg/L for TN, are proposed as basis for establishing the nutrient standards for reservoirs of Puerto Rico.

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## 1.0 Introduction

Cultural eutrophication has been a predominant water quality concern for over 50 years in the U.S. Nutrient over enrichment of surface waters stimulates immoderate growth of aquatic macrophytic vegetation and undesirable abundance of phytoplankton. The eventual decay of macrophytic, and planktonic biomass can lead to short- and long-term cycles of anoxia (USEPA, 1999; Campbell and Edwards, 2001). In turn, low dissolved oxygen concentrations reduce fish growth rates, increase fish mortality, and alter the distribution and behavior of aquatic organisms (Breitburg, 2002). Anoxia also promotes biogeochemical processes such as sulfate reduction to hydrogen sulfide, the recycling of ammonia and phosphates, as well as the mobilization of heavy metals (e.g., Fe, Mn) from bottom sediments (USEPA, 2003). These conditions not only affect the water quality of the lake ecosystem, but that of downstream waters.

Concerns with eutrophication have exacerbated in recent decades with the identification of several planktonic strains capable of producing toxins that are hazardous to human and animal health. Some of these compounds have been reported to affect the liver (hepatoxins), nervous (neurotoxins), and/or gastrointestinal systems, while others have been reported to cause kidney disease (Pan et al., 2002). Recurring formation of toxic cyanobacteria blooms has rapidly become an issue of increasing concern for health and water quality officials worldwide. Cyanotoxins have been included in the most recent EPA Contaminant Candidate List (CCL)[1] and are currently under consideration to be included in the official list of regulated contaminants. Altogether excessive nutrient concentrations are detrimental to the designated uses of water bodies (raw source of potable water, aquatic life, navigation, fishing, or swimming) and make water treatment for drinking purposes more difficult and expensive (USEPA, 2000).

To address the problem of elevated nutrient concentrations in streams and lakes, the United Sates Environmental Protection Agency (USEPA) established the National Nutrient Criteria Program in 1998. The goal of this program is to reduce cultural eutrophication by developing regulatory guidelines for the implementation of numeric nutrient criteria at the state or ecoregion level. The criteria constitute numeric thresholds established on the basis of protecting the ecological integrity of water ecosystems and preventing impairment to their designated uses. These guidelines enable local regulatory agencies to identify, prioritize, and develop quantifiable metrics for the restoration of nutrient impacted waters (USEPA, 2000). The Puerto Rico Environmental Quality Board, in collaboration with USEPA Region 2, has sponsored two research projects to: 1) Develop numeric *reference* criteria for nutrients [nitrogen (N) and phosphorus (P)] (Martínez et al., 2005), and 2) Develop numeric *nutrient* criteria for reservoirs of Puerto Rico (Martínez et al., 2014). This document summarizes the results of these studies.

## 2.0 Background

The USEPA conducted a national assessment of lakes/reservoirs within its contiguous states (USEPA, 2009). Elevated nutrient concentrations constituted the second most important

[1] Drinking water contaminant candidate list 2; final notice. Federal Register: 70 (36) p. 9071-9077; February 24, 2005. Available at: http://www.gpo.gov/fdsys/pkg/FR-2005-02-24/pdf/05-3527.pdf.

impairment, affecting close to 20% of the total lake/reservoir population. Lakes with excess nutrients were two-and-a half-times more likely to exhibit poor biological health relative to those with adequate nutrient levels. Interestingly, nutrients have not yet been identified as a cause of impairment of reservoirs of Puerto Rico according to the most recent *List of Impaired Waters of Puerto Rico (303d)* (PREQB, 2012). The fact that nutrients are not officially considered a major pollution cause in Puerto Rico is probably due to the lack of adequate standards that enable the identification of nutrient impaired waters. The current water quality standard for total P (TP) in Puerto Rico, 1000 µg TP $L^{-1}$, corresponds to the NPDES permit limit applicable to point sources as assigned by USEPA at their effluent discharge point. Said level was never intended to regulate phosphorus concentrations at an ecosystem level. Using it as such clearly precludes the identification of nutrient impaired waters and the protection of a resource that is critical for the well-being of our society. Over 70% of the water used for human consumption in Puerto Rico comes from its reservoirs (Ortíz-Zayas et al., 2004). The high dependence of the population of Puerto Rico on reservoir water supply advocates for the implementation of sound protective measures to ensure sustainability of these ecosystems. Regulating the nutrient status of our reservoirs waters should be at the forefront of these efforts.

The USEPA recommends two basic approaches for the estimation of *numeric reference criteria*, namely: a) establishing reference conditions, or b) identifying ecological thresholds of integrity for protecting the designated uses of the waters. Reference criteria are background concentrations that represent "best currently attainable" conditions for the waters in a particular ecoregion. Nutrient concentrations associated with those estimates represent conditions of minimal or least amount of human disturbance. USEPA recommends establishing reference criteria from frequency distribution analyses, specifically by selecting values corresponding to the $75^{th}$ percentile of a reference population (e.g., reservoirs in watersheds with no historic human intervention), or the $25^{th}$ percentile of a general population (e.g., complete reservoir network). Reference conditions may also be estimated from paleolimnological analyses of sediment samples dated prior to the intensification of human activities in a particular region (not applicable to reservoirs). An alternative to the frequency distribution approach is to establish *numeric nutrient criteria* based on predictive relationships between a stressor (i.e., nutrients) and a biological or ecological response variable that indicates significant impact to the ecological integrity of the systems. The latter may allow certain degree of nutrient enrichment (i.e., criteria may not be set at reference or "best attainable conditions") by choosing to set the protective limits at concentrations that protect against designated use impairment.

Both of these approaches have been followed in Puerto Rico. Reference conditions were determined from samples obtained from 2003 to 2005 from the complete reservoir network (19 major reservoirs) of Puerto Rico, whereas nutrient levels associated with ecological thresholds of impairment have just recently been estimated from a study conducted between 2011 to 2014, based on a selected sample of reservoirs from the general population.

## 3.0 Estimation of Reference Conditions

In accordance with USEPA Numeric Criteria Guidelines a monitoring study was conducted between 2003 and 2005 using the complete reservoir network (19 reservoirs) of Puerto Rico to determine *numeric reference criteria*. At least two monitoring stations (entrance and dam) were established in most reservoirs. The biggest reservoirs (> 100 ha) usually had three sampling stations (i.e., riverine (entrance), transitional (center), and lacustrine (near dam) sections of the lake). Some of the smallest reservoirs (surface area < 30 ha) had only one monitoring station (Appendix A). Each station was monitored four times per year. The goal was to sample during "rain", "dry" and transitional periods during the year. Water samples were collected at the surface (≤ 1m) by PREQB personnel according to the procedures described in PREQB SOP No. 023. Analyses for pH, dissolved oxygen and electrical conductance were conducted at the sampling site according to PREQB Field Measurement SOPs 021.1, 021.2, 021.3 and 021.4, respectively. After adding the specified preservatives samples were placed in an ice chest containing sufficient ice to cool the samples to 4°C and transported to the PREQB Lab. Samples remained under PREQB custody until transferal to authorized UPR-Agricultural Experiment Station (AES) laboratory personnel under appropriate chain of custody procedures.

Samples were analyzed for: total Kjeldahl nitrogen (TKN; EPA method 351.2), total phosphorus (TP; EPA method 365.2), and chlorophyll "a" (Chl-*a*; EPA method 445.0) by AES personnel. Nitrate was analyzed by an external laboratory. Total N was obtained by the sum of TKN-N and $NO_3$-N. Specific details on analysis methodology are included in the Quality Assurance Project Plan of the project. The reference condition was established according to the approach recommended by the *National Nutrient Criteria Program* (USEPA, 2000). The lower 25$^{th}$ percentile of the distribution of median values from the reservoir population for the parameters of interest (i.e. TN, TP, Chl-*a*) was selected as the reference condition.

The reservoir population of Puerto Rico was widely distributed in terms of their nutritional status (see Martínez et al., 2005 for details). A significant difference between the concentration of nutrients at the riverine (entrance) and the lacustrine (near dam) sections of the reservoirs was observed with higher nutrient and Chl-*a* levels observed at the riverine portion. The relationship between Chl-*a* values and nutrients was also stronger at the riverine section. Although a significant difference in nutrient concentrations between the riverine (entrance) section, and the other sections [center and lacustrine (dam)] was observed, estimates of reference conditions excluding the riverine data did not yield significantly different results. Estimates of reference conditions for TP, TKN, TN, and Chl-*a* were 23.0 µg/L, 0.32 mg/L, 0.42 mg/L, and 3.96 µg/L, respectively. These values are similar to values proposed by EPA for other ecoregions of the U.S.A. (Table 1). The difference between the reference criteria value for phosphorus (23.0 µg/L) and the current water quality standard (1,000 µg/L TP) is notable (at present there is no standard for TN in reservoirs of Puerto Rico).

Table 1. Reference condition values for lakes/reservoirs of Puerto Rico. Values for eight of the 10 USEPA ecoregions[1] are included for comparative purposes (refer to www.epa.gov for details on the ecoregions report).

| | Ecoregion (ER) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | **PR[1]** | II | III | IV | VI | VII | VIII | IX | XI | XII | XIII |
| TP µg/L | **23.0** | 8.75 | 17.00 | 20.0 | 37.5 | 14.75 | 8.0 | 20.0 | 8.0 | 10.0 | 17.5 |
| TN mg/L | **0.42** | 0.10 | 0.40 | 0.44 | 1.68 | 0.66 | 0.24 | 0.36 | 0.46 | 0.52 | 1.27 |
| Chl *a* µg/L | **2.87** | 1.90 | 3.40 | 2.00 | 8.59 | 5.23 | 2.39 | 5.18 | 2.79 | 2.60 | 3.35 |

[1] – ER II (Western Forested Mountains); ER III (Xeric West); ER IV (Great Plains Grass and Shrublands); ER VI (Corn Belt and Northern Great Plains; ER VII (Mostly Glaciated Dairy Region); ER VIII (Nutrient Poor Largely Glaciated Upper Midwest and Northeast); ER IX (Southeastern Temperate Forested Plains and Hills); ER XI (Central and Eastern Forested Uplands); ER XII (Southern Coastal Plain); ER XIII (Southern Florida Coastal Plain).

## 4.0 Determination of Numeric Nutrient Criteria

Reference criteria represent best attainable conditions (from a nutritional standpoint). Said thresholds define a transition between reference conditions and "nutrient enriched" conditions. In contrast, numeric criteria could be chosen to be established at the transition between nutrient enrichment and impairment, with impairment being defined by either an indicator of ecological integrity or by evidence indicating detriment to a designated use of the waters. The numeric criteria should ultimately be tied to the protection of one or more of the designated uses of the waters and would ideally involve the use of stressor-response relationships that relate a response variable (e.g., Chl-*a*, algae community index, Secchi depth, etc.) to a causal variable (i.e., nutrients).

In Puerto Rico all reservoirs are evaluated based on the following designated uses: primary and secondary contact, aquatic life, and sources of potable water. In the case of reservoirs, one of the most conservative uses for protection purposes and nutrient criteria development is aquatic life. An ecological limit that prevents exuberant growth of aquatic macrophytic vegetation, recurring algae blooms and/or a significant deterioration of the aquatic community structure could successfully be used to define limiting nutrient conditions. Based on this conceptual framework we proposed using Chl-*a* to define a quantitative ecological threshold that prevents impairment to the designated uses of our reservoirs.

The rationale follows that used by USEPA in the *2007 National Assessment of Lakes*. In that study USEPA used fixed Chl-*a* thresholds to categorize the nation's lakes according to trophic levels (USEPA, 2009). USEPA selected this parameter recognizing that the selected Chl-*a* thresholds were "longstanding accepted values from the peer reviewed scientific literature, which are well established, and widely and consistently used" (USEPA, 2009). In said study a value of 30 µg Chl-*a*/L was used to define the boundary between eutrophic – hypereutrophic conditions. A similar Chl-*a* concentration (i.e., 30 µg/L) has been proposed as a transition point to cyanobacterial dominance in lentic waters of the U.S. (Alan

Wilson, personal communication). Clearly hypereutrophic conditions are detrimental to the sustainability of aquatic systems and by definition represent a state where the ecological integrity of the system has been compromised. We proposed using 30 µg/L Chl-*a* as a first approximation to establishing an ecological limit condition associated with impairment in reservoirs of Puerto Rico. An adjustment to that initial benchmark was later established based on stressor-response relationships from data gathered during a research project conducted between 2011 and 2014.

### 4.1 Methodology

The experimental strategy involved the recurrent sampling of six of Puerto Rico's most important reservoirs, namely: La Plata, Guajataca, Cerrillos, Patillas, Cidra, and Toa Vaca. The selected reservoirs represent the trophic status range of reservoirs in the island while contributing close to 60% of the total reservoir storage volume. Twenty five sampling events were performed at each reservoir (24 at Toa Vaca). All project activities (e.g., sampling and analyses) were performed by AES personnel as described in the EPA-approved Quality Assurance Project Plan (QAPP) (Appendix C). Samples were obtained in triplicate, one at each of three points located along a spatially defined transect on the center (mid) portion of each reservoir. In all, a total of 447 surface samples were analyzed in this study [additional samples were collected at discrete depths (5m, 10m 15m) within the water column]. All samplings were performed between 9:00 and 11:00 A.M. Samples were obtained with a horizontal-type 2-L *Van Dorn sampler* at a depth of 1m. Water samples for nutrient analyses were transferred to pre-labeled polypropylene bottles and preserved on-site by acidification. Separate aliquots were used for Chl-*a* analyses. Samples for Chl-*a* analyses were filtered on site through glass fiber filter (Whatman GF/F). *In situ* measurements of pH, temperature ($^0$C), ORP, and dissolved oxygen (mg $L^{-1}$) were performed with a YSI 6600 multiparameter sonde (Yellow Springs Instruments, Yellow Springs, OH). Water transparency was determined with a 20-cm Secchi disk (SD). *In situ* vertical (depth) profiles (1m resolution) of pH, electrical conductance, dissolved oxygen, water temperature, turbidity, oxidation-reduction potential were obtained at the geographical mid sampling station (Station B) at each reservoir. Samples (including Chl-*a* filters) were transported at 4°C to the Soil and Water Chemistry Laboratory at the University of Puerto Rico within 6 hours of collection. Algal biomass was estimated by means of the Chl-*a* acetone extraction method and quantification of Chl-*a* using a model 10-AU fluorometer (Turner Designs Inc., Sunnyvale, CA). Nutrient analyses included dissolved and total reactive P (EPA method 365.2), TKN (EPA method 351.2), and nitrate-N (EPA method 353.1). Samples for nitrate-N, and dissolved P were filtered through a 0.45 µm Gelman acrodisc filters before analysis. In addition, a detailed analysis of phytoplankton community composition was conducted to evaluate the relationship between trophic status and community structure (i.e., taxonomic richness, diversity) composition.

### 4.2 Statistical analyses

The statistical analysis focused on the relationship of nutrient parameters (TP and TN) and Chl-*a*. Initially, simple and multiple regression models were fitted for log-transformed values. Using these relationships, conditional probability analysis (i.e., change point

identification), and hierarchical modeling (Qian et al., 2003; Paul and McDonald, 2005) were used to establish specific nutrient thresholds in relation to biological indicators.

***Determining nutrient thresholds using changepoint models***. In order to determine a threshold ($x_c$) for a given nutrient $x$, given that we know the corresponding threshold ($y_c$) for an environmental response $y$, we considered $P(y>y_c \mid x>x_i)$ for all possible observed values of $x_i$. The assumption needed for interpreting these conditional probabilities is that they have a positive relationship with the nutrient (Paul and McDonald, 2005). The value $x_c$ is determined as the changepoint value in the relationship $P(y>y_c \mid x>x_i)$ vs. $x_i$. In order to estimate this changepoint, several methods have been proposed (*non-overlapping confidence intervals*, *non-linear model with a changepoint parameter*, *Bayesian changepoint model*, and *deviance reduction methods*). Except for the deviance reduction methods and the nonlinear model, the other proposed methodologies assume normal distribution and constant variance. The deviance reduction method assumes a mixture model with two components, each with its own mean (and $\mu_2 \geq \mu_1$). Under the normal distribution assumption with equal variances, the changepoint is the value that minimizes the residual sum of squares. Not assuming normal distribution, the same method is equivalent to a least squares criterion, which is a commonly used method applied in many statistical settings. Here we applied the least squares method to determine TN and TP thresholds based on the known limits for Chl-*a*. Changepoints were initially calculated for each of the USEPA suggested trophic Chl-*a* thresholds of 2, 7, and 30 µg/L. In each case, 1000 bootstrap samples were obtained, and the threshold was estimated as the average of the samples. The 95% confidence intervals were estimated from the bootstrap samples using the percentile method. The Chl-*a* threshold used to establish the numeric criteria was selected from relationships between limnological parameters that assess the reservoirs condition relative to their designated uses.

## 4.3 Results

For a detailed discussion of the results the reader is referred to Martínez et al. (2014). As intended, the reservoirs chosen exemplify the nutrient status/productivity spectrum of reservoirs in the island (Table 2). Cidra and La Plata represent reservoirs with a greater degree of enrichment. Toa Vaca and Guajataca represent a transition phase in the productivity spectrum, while Cerrillos and Patillas are near reference conditions (Table 2). As expected, reservoirs with higher nutrient and productivity status (i.e., Cidra, La Plata) have lower depth of light penetration (i.e., Secchi depth) than reservoirs with relatively lower nutrient and Chl-a values (i.e., Patillas, Cerrillos) (Table 2).

**Table 2.** Means separation among reservoirs of causative (nutrients) and response (Chl-a and Secchi depth) variables in selected reservoirs.

| | TKN-N | TN | TP | Chl-a | Secchi-depth |
|---|---|---|---|---|---|
| | mg/L | | | µg/L | meters |
| Cidra | 0.68 A [1] | 0.72 A | 0.038 A | 37.02 A | 1.00 F |
| La Plata | 0.50 B | 0.52 B | 0.043 A | 21.01 B | 1.36 E |
| Toa Vaca | 0.30 C | 0.31 C | 0.022 B | 9.04 C | 1.76 D |
| Guajataca | 0.25 D | 0.25 D | 0.009 C | 6.18 D | 1.99 C |
| Cerrillos | 0.18 E | 0.20 E | 0.009 C | 4.76 E | 2.69 A |
| Patillas | 0.16 E | 0.18 E | 0.007 D | 4.47 E | 2.49 B |

1 - Within a given column, means with the same letter are not significantly different as determined with a Fisher's Least Significant Difference (LSD) test (P<0.05).

Pearson correlation coefficients for the complete data set showed strong positive correlations between TKN and Chl-*a* (r = 0.65), TN and Chl-*a* (r = 0.66), and TP and Chl-a (r = 0.74) (Figure 1). The relationship between TP and Chl-*a* is similar to that reported in numerous studies worldwide (Table 3). Differences in slopes have been attributed to the effect of grazing (presence of large grazers lower the slope), stratification (stratification reduces the slope), and algal composition community, among other factors (Mazumder, 1993; Felip and Catalan, 2000; Fernandes-Cunha, 2013). Determination coefficients ($r^2$) seem to indicate that total phosphorus has less explanatory power of the chlorophyll *a* variability in tropical lakes/reservoirs than in temperate lakes (Table 3). Among the hypotheses suggested to explain this behavior are: a greater relevance of nitrogen as a potential limiting nutrient in tropical systems, greater presence of non-algal particulates in tropical systems, and differences in morphometry and hydrologic regimes (White, 1983; Huzar, et al., 2006). Despite this, phosphorus still represents a major controlling factor of primary productivity in tropical reservoirs.

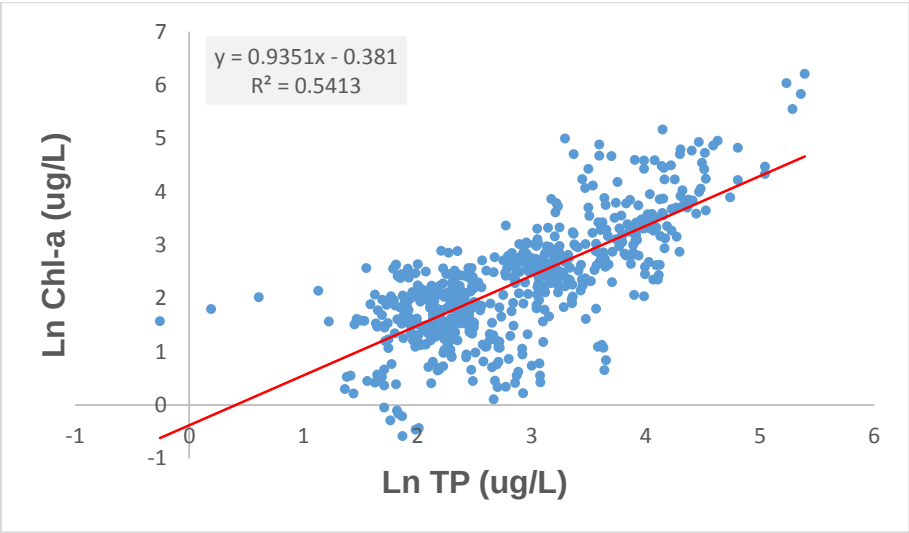



**Figure 1**: Relationship between total phosphorus (µg/L) and Chl-*a* (µg/L).

Table 3: Selected regression equations for the relationship between total phosphorus and chlorophyll a.

| **Linear regression equation** | **$r^2$** | **Description** | **Reference** |
|---|---|---|---|
| **Ln Chla = 0.94Ln TP – 0.381** | **0.54** | **Puerto Rico's reservoirs** | **This study** |
| Ln Chla = 0.94Ln TP – 0.806 | 0.71 | North American and European Lakes | Mazumder (1994) |
| Ln Chla = 0.87Ln TP – 0.622 | 0.89 | Eastern North American Lakes | Nürnberg (1996) |
| Ln Chla = 0.80Ln TP – 0.576 | 0.64 | Worldwide Lakes | Nürnberg (1996) |
| Ln Chla = 0.87Ln TP – 0.898 | 0.69 | North American and European Lakes | Praire, et al. (1989) |
| Ln Chla = 0.70Ln TP – 0.35 | 0.42 | Tropical and Subtropical Lakes | Huzar, et al. (2006) |
| Ln Chla = 1.10Ln TP – 1.94 | 0.53 | Tropical and Subtropical Reservoirs | Fernandes-Cunha, et al. (2013) |
| Ln Chla = 0.82LnTP – 0.19 | 0.84 | Tropical Reservoirs | González and Quirós (2011) |
| Ln Chla = 0.96Ln TP – 1.27 | 0.94 | OECD study | White (1989) |
| Ln Chla = 1.44Ln TP – 2.44 | 0.72 | Worldwide Lakes | Carlson (1977) |

As expected, increases in algae biomass density (as measured by Chl-*a*) diminish the light penetration depth into the lake profile (i.e., Secchi depth). This is evidenced by the negative correlation coefficient obtained between these two parameters (r=-0.70) (Figure 2). In fact, Chl-*a* and nutrients (i.e., TP, TKN, TN) were negatively correlated with Secchi depth. Secchi depth (SD) is a widely used tool in lake (reservoir) limnology. It offers a practical and reliable approach to estimating extent of light penetration in the water column. The extent of light penetration, particularly that corresponding to the photosynthetically active radiation [PAR (400-70nm)] fraction, greatly influences the spatial and temporal distribution of phytoplankton which in turn significantly impacts the dynamics of dissolved oxygen (DO), a critical parameter to aquatic life.

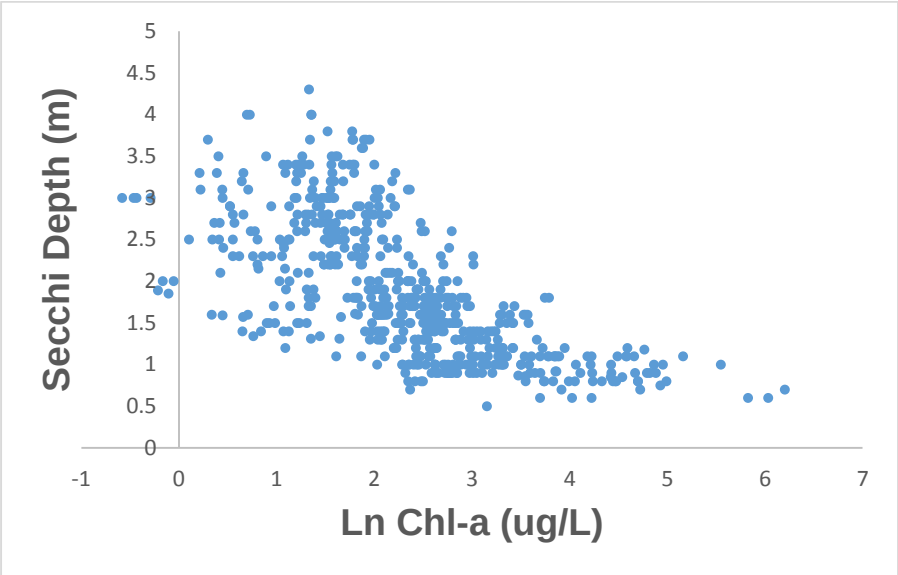



**Figure 2**: Relationship between chlorophyll *a* and Secchi depth.

The inverse relationship between Chl-*a* (an index of algae biomass productivity) and the extent of light penetration as measured by SD has led to the worldwide adoption of SD as a trophic state defining criterion. Secchi depth values at or below 1m are considered indicative of impairment in lakes (Forsberg and Ryding, 1980; Nürnberg, 1996, Carlson and Simpson, 1996). We used our vertical profile data (DO, pH, temp., ORP) collected at Station B (i.e., station at the middle of the sampling transect) to explore in more detail the relationships among Chl-*a*, SD and DO in order to define a Chl-*a* threshold that could be used to establish the numeric criteria. The inverse relationship between SD and Chl-*a* (Figure 3) describes that there is a non-linear decrease in SD with Chl-*a*, followed by a well-defined threshold (change-point) below which SD does not change significantly with further Chl-*a* increase (within the Chl-*a* range observed in this study). A segmented curve approach was used to identify the Chl-*a* value that best defines this transition (Table 3, Figure 3). The resulting value (23.6 µg/L Chl-*a*) represents a potential ecological threshold for establishing the nutrient criteria. At Chl-*a* values below 23.6 µg/L there is an exponential increase of light penetration with reductions in Chl-*a*, whereas at values greater than 23.6 µg/L Chl-*a*, SD values are less sensitive to change and have reached values that are considered indicative of impairment (i.e., 1m).

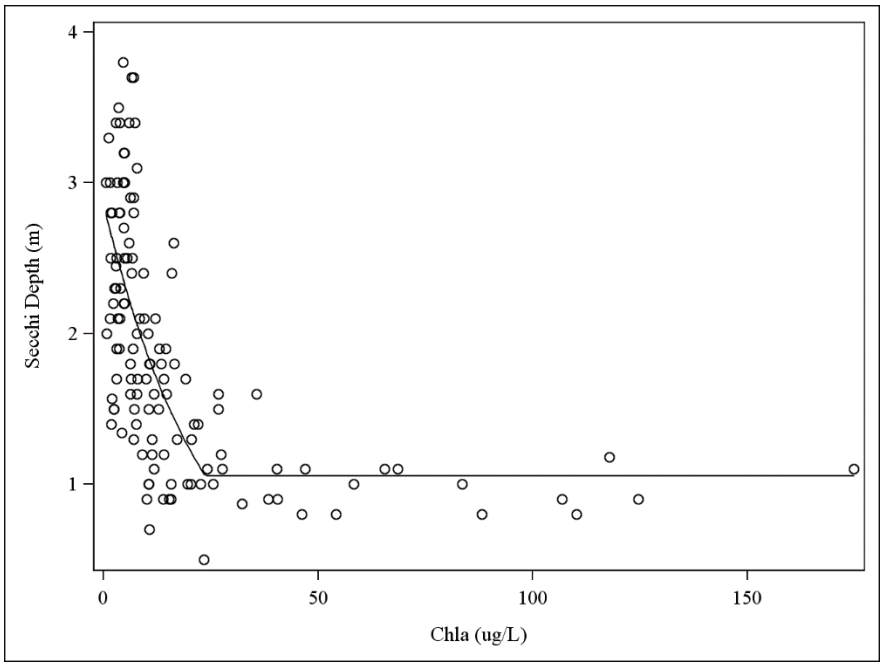



**Figure 3**: Relationship between chlorophyll *a* and Secchi depth at the water column profile station (Station B). Line represents the best fit of a segmented curved approach. The first segment was a negative exponential curve, and the second segment a horizontal line. The changepoint value for Chl-*a* (parameter g), was estimated at 23.6 µg/L.

Table 3: Results of a segmented curve fitting exercise on the Chl-a – SD data (station B).

| Parameter Estimates | | | | | |
|---|---|---|---|---|---|
| Parameter | Estimate | Standard error | Pr > \|t\| | Lower interval | Upper interval |
| G | 23.6 | 3.69 | <.0001 | 16.316 | 30.95 |

The significance of the 23.6 µg/L Chl-*a* threshold as defining criterion is sustained by the relationship between Chl-*a* and an ecological DO threshold obtained from the same data set. A plot of Chl-*a* values vs. the maximum depth exhibiting DO values greater than 5mg/L results in a similar relationship as that of Chl-*a* and SD (Figure 4). We expressed DO concentrations in terms of the maximum depth in compliance with the USEPA aquatic life criteria (DO ≥ 5mg/L) due to the importance of this parameter for reservoirs of Puerto Rico. At present, all of our reservoirs are listed as impaired (PREQB 303(d) 2012) for violation to the USEPA DO criteria. In our view, said assessment is a result of an inadequate implementation protocol rather than a true DO impairment as a result of eutrophic conditions. The current assessment process consists on a comparison of average DO values from discrete measurements gathered at three depths (i.e., 1m, 5m, and 15m) with the 5mg/L limit established by USEPA. Since most tropical reservoirs experience hypolimnion anoxia (< 0.2 mg/L DO) during most part of the year (regardless of trophic status) it is extremely unlikely that our reservoirs meet the 5.0 mg/L regulatory threshold.

Tropical lakes and reservoirs are more susceptible to hypolimnion oxygen depletion than their temperate counterparts (MacKinnon and Herbert, 1996; Lewis, 2000). This is attributed to the reduced solubility of oxygen in warm waters, the long periods of thermal stratification exhibited by lakes in the tropics, coupled with the higher rates of microbial metabolism experienced at higher temperatures (Townsend, 1996, 1999). For instance, both Patillas and La Plata reservoirs exhibit hypolimnion anoxia during most part of the year despite having contrasting trophic status (Figure 5). Said condition precludes hypolimnion anoxia to be used as an indicator of trophic status in tropical lakes/reservoirs as is commonly used in the temperate region. The well-documented differences in DO dynamics between tropical lakes/reservoirs and temperate systems demand a thorough characterization prior to adopting guidelines and assessment protocols developed in temperate ecosystems. There is a need to develop an adequate assessment protocol that can discriminate the effects of excessive primary productivity on DO dynamics in tropical reservoirs where hypolimnion anoxia is not exclusively linked to trophic status. Evaluating the maximum depth at which relevant ecological DO thresholds are met for reservoirs across the trophic spectrum may provide a practical diagnostic tool to distinguish between nutrient impaired and non-impaired reservoirs in the tropics.

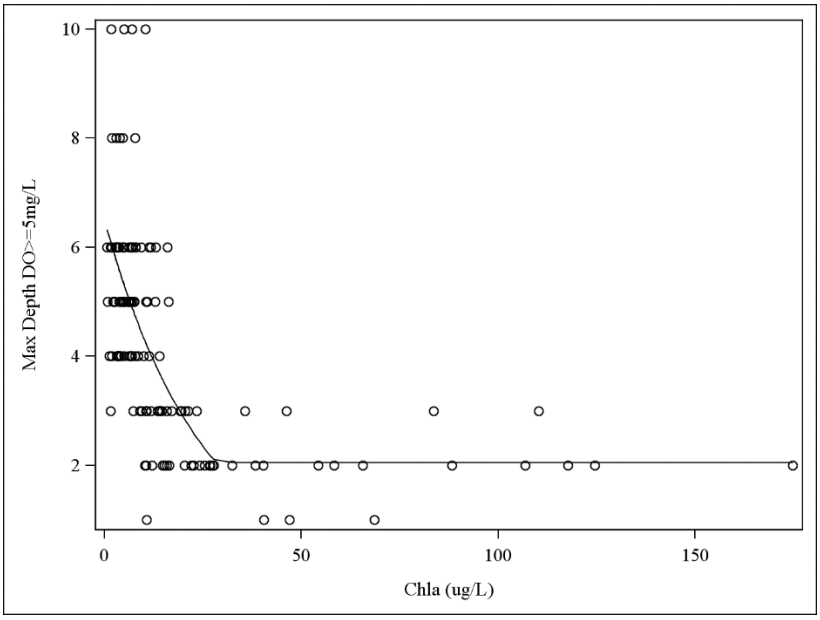
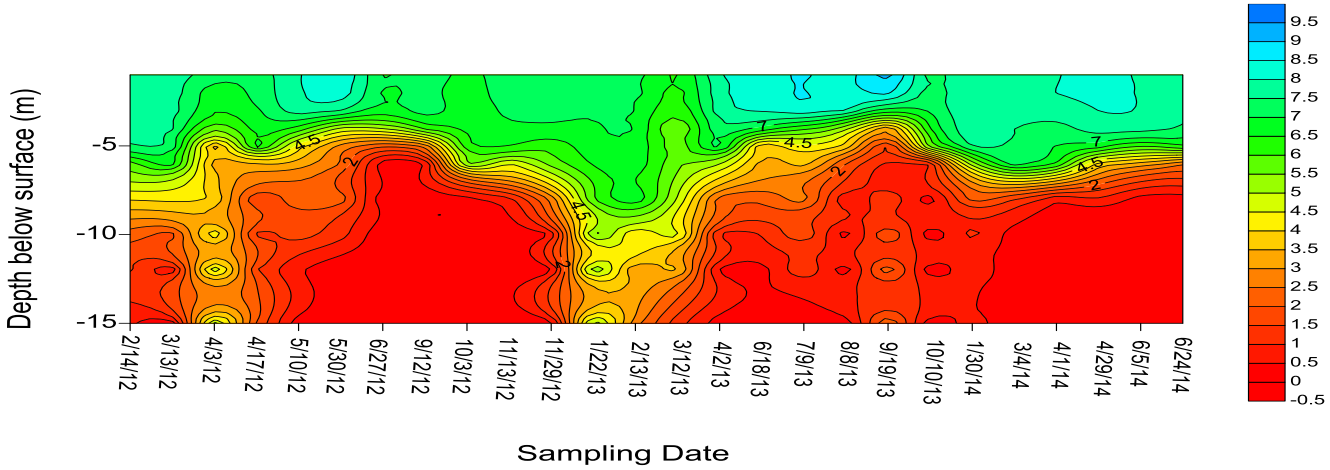
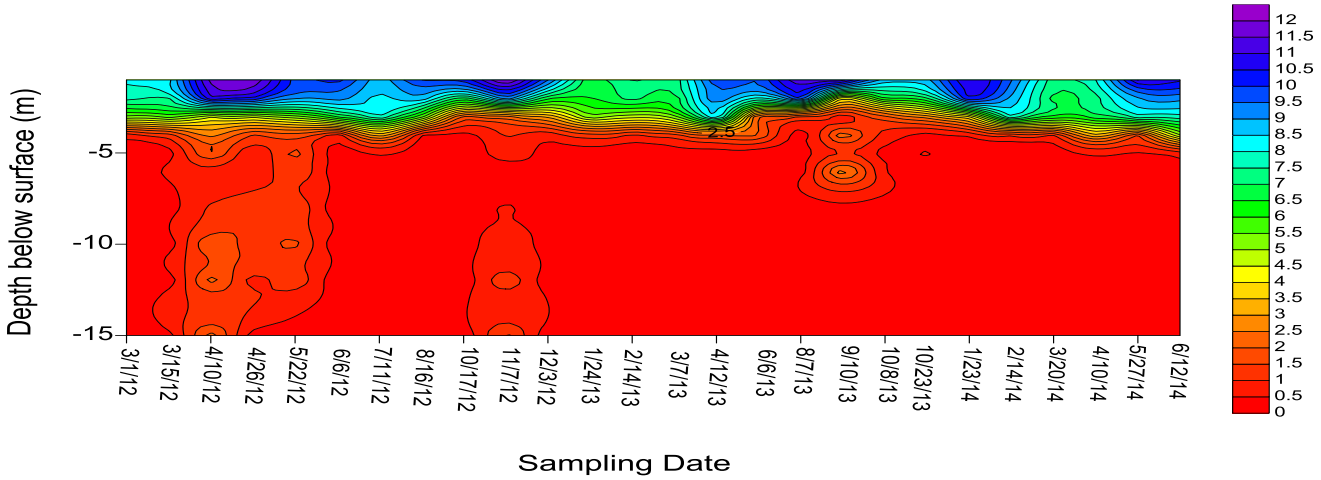



**Figure 4**: Relationship between chlorophyll *a* and the maximum depth with DO values ≥ 5mg/L. Data from at the water column profile station (Station B). Line represents the best fit of a segmented curved approach. The first segment was a negative exponential curve, and the second segment a horizontal line. The changepoint value for Chl-*a* (parameter g), was estimated as 28.3 µg/L.




a




b

Figure 5: DO isopleths for two reservoirs of Puerto Rico of contrasting trophic status, namely: Patillas (a) and La Plata (b). Median TN, TP and Chl *a* concentrations for Patillas are 0.19 mg/L, 0.007 mg/L and 4.56 µg/L, respectively. Median TN, TP and Chl *a* concentrations for La Plata: 0.55 mg/L, 0.045 mg/L and 21.83 µg/L.

The segmented curve approach for the relationship between Chl-*a* and the maximum depth in compliance with the aquatic life criteria yields a Chl-*a* concentration of 28.3 µg/L (Table 4). Significant increases in said parameter (i.e., max depth DO ≥ 5mg/L) are observed at Chl-*a* concentrations below 28.3 µg/L. This type of data arrangement could be useful in developing a protocol for assessing aquatic life criteria compliance in reservoirs where hypolimnion anoxia may naturally occur. The value of 28.3 µg/L is similar to that obtained for the relationship between Chl-*a* and SD. The latter (i.e., 23.6 µg/L) carries greater sensitivity due to the fact that SD values were recorded at 0.1m resolution intervals whereas the DO profiles are based on discrete measurements obtained at 1m resolution. Altogether,

the evidence suggests that at Chl-*a* values close to 24 µg/L the extent of light penetration in our reservoirs is significantly reduced (due to excessive phytoplankton biomass productivity) which hinders the capacity of our reservoirs to comply with the aquatic life criteria. On the other hand, an exponential increase in depth of light penetration is observed at Chl *a*- values < 24 µg/L. As stated, this is reflected in an increase in the maximum depth with dissolved oxygen concentrations in compliance with the aquatic life criteria. We, therefore, suggest using 24 µg/L Chl-*a* as an impairment threshold to define the numeric criteria of reservoirs of Puerto Rico.

Table 4: Results of a segmented curve fitting exercise on the Chl-a – DO (max depth with DO values ≥ 5mg/L (station B).

| Parameter Estimates | | | | | |
|---|---|---|---|---|---|
| Parameter | Estimate | Standard error | Pr > \|t\| | Lower interval | Upper interval |
| G | 28.3 | 5.14 | <.0001 | 18.1 | 38.5 |

TP and TN concentrations associated to our Chl-*a* impairment threshold (i.e., 24 µg/L) were established based on a change point analyses of the data (Figure 6, Table 5). The resulting values, 0.035 mg/L for TP and 0.43 mg/L for TN, can be considered as nutrient thresholds associated with impairment. To protect against impairment the Numeric Nutrient Criteria should incorporate a margin of safety. We have chosen to use the concentrations defining the lower end of the 90% confidence interval of the bootstrap distribution of values associated with our Chl-*a* impairment threshold (i.e., percentile 5) to prevent impairment. These values are: 0.026 mg/L for TP and 0.41mg/L for TN. Based on our data set reservoirs exhibiting said concentrations would also reach the Chl-*a* impairment threshold only 5% of the times. Thus, we propose using 0.026 mg/L for TP and 0.41mg/L for TN as basis for establishing the nutrient standards for reservoirs of Puerto Rico. The proposed values are in accord to nutrient standards adopted by other states of the U.S.A. (http://cfpub.epa.gov/wqsits/nnc-development). It is recommended that the reservoirs condition should be established based on median values of at least 5 consecutive samplings obtained from the surface (1m) at the center or dam sections during the dry season.

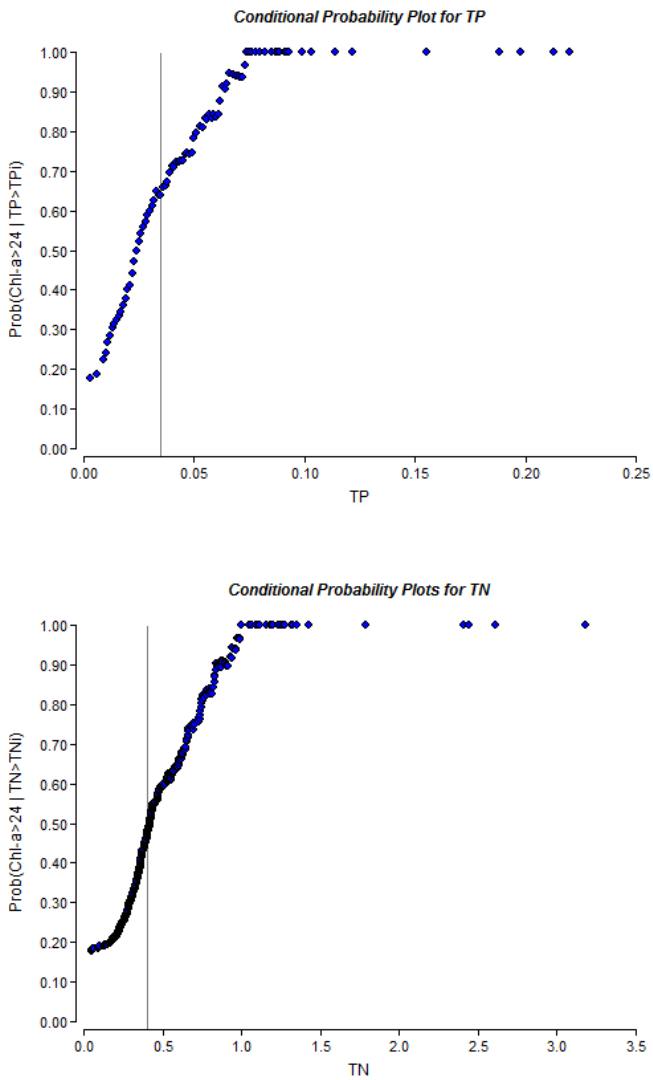



**Figure 6:** TP and TN conditional probability plots for our ecological Chl-a threshold.

**Table 6**: Changepoint estimates for TP and TN based on an impairment chlorophyll *a* threshold of 24 µg/L.

| Stressor | Chl-*a* level (µg/L) | Changepoint | 90% CI | |
|---|---|---|---|---|
| TP | 24 | 0.0347 | 0.0260 | 0.0490 |
| TN | 24 | 0.4322 | 0.4035 | 0.4898 |

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**Appendix A: PREQB reservoir monitoring network used in the nutrient criteria project.**

| Lake No. | Lake | Station Number | Description |
|---|---|---|---|
| 1 | Luchetti | 89017<br>89018<br>89019 | Near Río Yauco<br>Center<br>Dam |
| 2 | Loco | 89020<br>89021 | Near Quebrada Grande<br>Near Dam |
| 3 | Patillas | 89022<br>89023<br>89024<br>89025 | Near Río Patillas<br>Center<br>Near Dam<br>Near Río Marín |
| 4 | Las Curías | 89027<br>89028 | East side at the end of lake<br>Near dam, near San Juan |
| 5 | Cidra | 89029<br>89030<br>89031 | Near the second bridge<br>Center<br>Near Dam |
| 6 | Caonillas | 89001<br>89002<br>89003 | Near Río Caonillas<br>Center<br>Dam |
| 7 | Guayo | 89004<br>89005<br>89006 | Near Río Guayo, near Adjuntas<br>Center<br>Dam |
| 8 | Guineo | 89007<br>89008 | Near Río Toro<br>Near Dam |
| 9 | Matrullas | 89009<br>89010 | Near Río Matrullas<br>Near Dam |
| 10 | Guayabal | 89011<br>89012<br>89013 | Near Río Jacaguas<br>Center<br>Dam |
| 11 | Cerrillos | 89032<br>89033<br>89034 | Near Río Cerrillos<br>Center<br>Dam |
| 12 | Toa Vaca | 89014<br>89015<br>89016 | Near Río Toa Vaca<br>Center<br>Dam |
| 13 | Guajataca | 50010720<br>50010790 | Near Río<br>Dam |
| 14 | Garzas | 50020050 | Dam |
| 15 | Dos Bocas | 50025110<br>50027090 | Near Río Grande the Arecibo<br>Near Dam |
| 16 | La Plata | 50044400<br>50044950 | Near Río la Plata<br>Near Dam |
| 17 | Carite | 50039900<br>50039950 | Near Río la Plata<br>Near Dam |
| 18 | Loíza | 50057500<br>50058800 | Near Río<br>Center |
| 19 | Melanía | 89026 | Center |

**Appendix B: Statistical summary of analyses for individual lakes in Nutrient Criteria Project.**

| Lake | Parameter | Chlorophyll a (µg/L) | TKN (mg/L) | TP (mg/L) |
|---|---|---|---|---|
| Curias | Mean | 8.04 | 0.50 | 0.030 |
| | Median | 3.31 | 0.44 | 0.028 |
| | 25th per. [1] | 2.35 | 0.35 | 0.020 |
| La Plata | Mean | 15.19 | 0.39 | 0.051 |
| | Median | 6.29 | 0.35 | 0.058 |
| | 25th per. | 3.32 | 0.28 | 0.030 |
| Carraízo | Mean | 14.21 | 0.62 | 0.122 |
| | Median | 6.73 | 0.51 | 0.121 |
| | 25th per. | 5.76 | 0.33 | 0.085 |
| Carite | Mean | 2.85 | 0.29 | 0.013 |
| | Median | 2.27 | 0.26 | 0.013 |
| | 25th per. | 1.22 | 0.23 | 0.011 |
| Patillas | Mean | 2.81 | 0.26 | 0.017 |
| | Median | 2.31 | 0.27 | 0.016 |
| | 25th per. | 1.63 | 0.19 | 0.011 |
| Guayo | Mean | 13.32 | 0.41 | 0.032 |
| | Median | 8.41 | 0.42 | 0.030 |
| | 25th per. | 4.56 | 0.27 | 0.019 |
| Caonillas | Mean | 14.71 | 0.42 | 0.04 |
| | Median | 10.51 | 0.42 | 0.04 |
| | 25th per. | 6.13 | 0.31 | 0.021 |
| Matrullas | Mean | 9.26 | 0.32 | 0.026 |
| | Median | 6.49 | 0.34 | 0.024 |
| | 25th per. | 3.11 | 0.25 | 0.018 |
| Cerrillo | Mean | 7.81 | 0.36 | 0.026 |
| | Median | 4.13 | 0.31 | 0.022 |
| | 25th per. | 2.60 | 0.26 | 0.016 |
| Cidra | Mean | 11.07 | 0.49 | 0.040 |
| | Median | 7.01 | 0.43 | 0.035 |
| | 25th per. | 3.05 | 0.40 | 0.024 |
| Guineo | Mean | 23.79 | 0.46 | 0.034 |
| | Median | 9.58 | 0.41 | 0.030 |
| | 25th per. | 4.74 | 0.24 | 0.022 |
| Guajataca | Mean | 4.27 | 0.29 | 0.017 |
| | Median | 3.35 | 0.29 | 0.015 |
| | 25th per. | 2.35 | 0.25 | 0.013 |
| Dos Bocas | Mean | 15.54 | 0.43 | 0.070 |
| | Median | 7.01 | 0.36 | 0.050 |
| | 25th per. | 5.57 | 0.23 | 0.028 |

Appendix B (cont).

| **Lake** | **Parameter** | **Chlorophyll a (µg/L)** | **TKN (mg/L)** | **TP (mg/L)** |
|---|---|---|---|---|
| Melania | Mean | 4.33 | 0.41 | 0.028 |
| | Median | 4.76 | 0.45 | 0.025 |
| | 25th per. | 2.87 | 0.27 | 0.018 |
| Loco | Mean | 8.13 | 0.40 | 0.045 |
| | Median | 7.90 | 0.30 | 0.036 |
| | 25th per. | 4.36 | 0.27 | 0.027 |
| Luchetti | Mean | 22.23 | 0.42 | 0.044 |
| | Median | 19.68 | 0.47 | 0.032 |
| | 25th per. | 10.48 | 0.25 | 0.026 |
| Garzas | Mean | 6.98 | 0.26 | 0.021 |
| | Median | 5.94 | 0.27 | 0.018 |
| | 25th per. | 4.25 | 0.17 | 0.015 |
| Guayabal | Mean | 15.07 | 0.33 | 0.033 |
| | Median | 11.60 | 0.27 | 0.029 |
| | 25th per. | 3.22 | 0.08 | 0.01 |
| Toa Vaca | Mean | 6.07 | 0.39 | 0.043 |
| | Median | 3.79 | 0.39 | 0.041 |
| | 25th per. | 2.65 | 0.30 | 0.024 |

[1] - Indicates 25$^{th}$ percentile of the data.

## Appendix C: QAPP Title and Approval Page

12/22/11
5th version

**TITLE AND APPROVAL PAGE**

**NUTRIENT LEVELS ASSOCIATED WITH ECOLOGICAL THRESHOLDS OF IMPAIRMENT IN RESERVOIRS OF PUERTO RICO**

(Project Name)

ENVIRONMENTAL QUALITY BOARD

(Responsible Agency)

01/10/2012

(Date)

PREQB Overall Project Officer

Roberto Ayala /Date 01/10/2012

PREQB Project QA Officer Signature

Juan Luis Osorio /Date 01/10/2012

USEPA Project Officer Signature

Yasmin Idaguen/Date 12/29/11

USEPA QA Officer Signature

Carol Lynes/Date 12/29/11

# Appendix D: Chemical and field data

| Samp Date | Reservoir | Sample event | Station | Sample-type | Sample Depth (m) | Sample Description |
|---|---|---|---|---|---|---|
| 3/1/2012 | La Plata | 1 | Trip blank | 0 | N/A | Trip blank |
| 3/1/2012 | La Plata | 1 | A | 1 | 1 | A-1 |
| 3/1/2012 | La Plata | 1 | B | 1 | 1 | B-1 |
| 3/1/2012 | La Plata | 1 | B | 1 | 5 | B-5 |
| 3/1/2012 | La Plata | 1 | B | 1 | 10 | B-10 |
| 3/1/2012 | La Plata | 1 | B | 1 | 15 | B-15 |
| 3/1/2012 | La Plata | 1 | C | 1 | 1 | C-1 |
| 3/1/2012 | La Plata | 1 | C | 2 | 1 | C-1-D |
| 3/15/2012 | La Plata | 2 | Trip blank | 0 | N/A | Trip Blank |
| 3/15/2012 | La Plata | 2 | A | 1 | 1 | A1 |
| 3/15/2012 | La Plata | 2 | B | 1 | 1 | B1 |
| 3/15/2012 | La Plata | 2 | B | 1 | 5 | B5 |
| 3/15/2012 | La Plata | 2 | B | 1 | 10 | B10 |
| 3/15/2012 | La Plata | 2 | B | 1 | 15 | B15 |
| 3/15/2012 | La Plata | 2 | C | 1 | 1 | C1 |
| 3/15/2012 | La Plata | 2 | C | 2 | 1 | C1 Duplicado |
| 4/10/2012 | La Plata | 3 | Trip blank | 0 | N/A | Trip Blank |
| 4/10/2012 | La Plata | 3 | A | 1 | 1 | A1 |
| 4/10/2012 | La Plata | 3 | B | 1 | 1 | B1 |
| 4/10/2012 | La Plata | 3 | B | 1 | 5 | B5 |
| 4/10/2012 | La Plata | 3 | B | 1 | 10 | B10 |
| 4/10/2012 | La Plata | 3 | B | 1 | 15 | B15 |
| 4/10/2012 | La Plata | 3 | C | 1 | 1 | C1 |
| 4/10/2012 | La Plata | 3 | C | 2 | 1 | C1 Duplicado |
| 4/26/2012 | La Plata | 4 | Trip blank | 0 | N/A | Trip Blank |
| 4/26/2012 | La Plata | 4 | A | 1 | 1 | A1 |
| 4/26/2012 | La Plata | 4 | B | 1 | 1 | B1 |
| 4/26/2012 | La Plata | 4 | B | 1 | 5 | B5 |
| 4/26/2012 | La Plata | 4 | B | 1 | 10 | B10 |
| 4/26/2012 | La Plata | 4 | B | 1 | 15 | B15 |
| 4/26/2012 | La Plata | 4 | C | 1 | 1 | C1 |
| 4/26/2012 | La Plata | 4 | C | 2 | 1 | C1 Duplicado |
| 5/22/2012 | La Plata | 5 | Trip blank | 0 | N/A | Trip Blank |
| 5/22/2012 | La Plata | 5 | A | 1 | 1 | A1 |
| 5/22/2012 | La Plata | 5 | B | 1 | 1 | B1 |
| 5/22/2012 | La Plata | 5 | B | 1 | 5 | B5 |
| 5/22/2012 | La Plata | 5 | B | 1 | 10 | B10 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/22/2012 | La Plata | 5 | B | 1 | 15 | B15 |
| 5/22/2012 | La Plata | 5 | C | 1 | 1 | C1 |
| 5/22/2012 | La Plata | 5 | C | 2 | 1 | C1 Duplicado |
| 6/6/2012 | La Plata | 6 | Trip blank | 0 | N/A | Trip Blank |
| 6/6/2012 | La Plata | 6 | A | 1 | 1 | A1 |
| 6/6/2012 | La Plata | 6 | B | 1 | 1 | B1 |
| 6/6/2012 | La Plata | 6 | B | 1 | 5 | B5 |
| 6/6/2012 | La Plata | 6 | B | 1 | 10 | B10 |
| 6/6/2012 | La Plata | 6 | B | 1 | 15 | B15 |
| 6/6/2012 | La Plata | 6 | C | 1 | 1 | C1 |
| 6/6/2012 | La Plata | 6 | C | 2 | 1 | C1 Duplicado |
| 7/11/2012 | La Plata | 7 | Trip blank | 0 | N/A | Trip Blank |
| 7/11/2012 | La Plata | 7 | A | 1 | 1 | A1 |
| 7/11/2012 | La Plata | 7 | B | 1 | 1 | B1 |
| 7/11/2012 | La Plata | 7 | B | 1 | 5 | B5 |
| 7/11/2012 | La Plata | 7 | B | 1 | 10 | B10 |
| 7/11/2012 | La Plata | 7 | B | 1 | 15 | B15 |
| 7/11/2012 | La Plata | 7 | C | 1 | 1 | C1 |
| 7/11/2012 | La Plata | 7 | C | 2 | 1 | C1 Duplicado |
| 8/16/2012 | La Plata | 8 | Trip blank | 0 | N/A | Trip Blank |
| 8/16/2012 | La Plata | 8 | A | 1 | 1 | A1 |
| 8/16/2012 | La Plata | 8 | B | 1 | 1 | B1 |
| 8/16/2012 | La Plata | 8 | B | 1 | 5 | B5 |
| 8/16/2012 | La Plata | 8 | B | 1 | 10 | B10 |
| 8/16/2012 | La Plata | 8 | B | 1 | 15 | B15 |
| 8/16/2012 | La Plata | 8 | C | 1 | 1 | C1 |
| 8/16/2012 | La Plata | 8 | C | 2 | 1 | C1 Duplicado |
| 10/17/2012 | La Plata | 9 | Trip blank | 0 | N/A | Trip Blank |
| 10/17/2012 | La Plata | 9 | A | 1 | 1 | A1 |
| 10/17/2012 | La Plata | 9 | B | 1 | 1 | B1 |
| 10/17/2012 | La Plata | 9 | B | 1 | 5 | B5 |
| 10/17/2012 | La Plata | 9 | B | 1 | 10 | B10 |
| 10/17/2012 | La Plata | 9 | B | 1 | 15 | B15 |
| 10/17/2012 | La Plata | 9 | C | 1 | 1 | C1 |
| 10/17/2012 | La Plata | 9 | C | 2 | 1 | C1 Duplicado |
| 11/7/2012 | La Plata | 10 | Trip blank | 0 | N/A | Trip Blank |
| 11/7/2012 | La Plata | 10 | A | 1 | 1 | A1 |
| 11/7/2012 | La Plata | 10 | B | 1 | 1 | B1 |
| 11/7/2012 | La Plata | 10 | B | 1 | 5 | B5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 11/7/2012 | La Plata | 10 | B | 1 | 10 | B10 |
| 11/7/2012 | La Plata | 10 | B | 1 | 15 | B15 |
| 11/7/2012 | La Plata | 10 | C | 1 | 1 | C1 |
| 11/7/2012 | La Plata | 10 | C | 2 | 1 | C1 Duplicado |
| 12/3/2012 | La Plata | 11 | Trip blank | 0 | N/A | Trip Blank |
| 12/3/2012 | La Plata | 11 | A | 1 | 1 | A1 |
| 12/3/2012 | La Plata | 11 | B | 1 | 1 | B1 |
| 12/3/2012 | La Plata | 11 | B | 1 | 5 | B5 |
| 12/3/2012 | La Plata | 11 | B | 1 | 10 | B10 |
| 12/3/2012 | La Plata | 11 | B | 1 | 15 | B15 |
| 12/3/2012 | La Plata | 11 | C | 1 | 1 | C1 |
| 12/3/2012 | La Plata | 11 | C | 2 | 1 | C1 Duplicado |
| 1/24/2013 | La Plata | 12 | Trip blank | 0 | N/A | Trip Blank |
| 1/24/2013 | La Plata | 12 | A | 1 | 1 | A1 |
| 1/24/2013 | La Plata | 12 | B | 1 | 1 | B1 |
| 1/24/2013 | La Plata | 12 | B | 1 | 5 | B5 |
| 1/24/2013 | La Plata | 12 | B | 1 | 10 | B10 |
| 1/24/2013 | La Plata | 12 | B | 1 | 15 | B15 |
| 1/24/2013 | La Plata | 12 | C | 1 | 1 | C1 |
| 1/24/2013 | La Plata | 12 | C | 2 | 1 | C1 Duplicado |
| 2/14/2013 | La Plata | 13 | Trip blank | 0 | N/A | Trip Blank |
| 2/14/2013 | La Plata | 13 | A | 1 | 1 | A1 |
| 2/14/2013 | La Plata | 13 | B | 1 | 1 | B1 |
| 2/14/2013 | La Plata | 13 | B | 1 | 5 | B5 |
| 2/14/2013 | La Plata | 13 | B | 1 | 10 | B10 |
| 2/14/2013 | La Plata | 13 | B | 1 | 15 | B15 |
| 2/14/2013 | La Plata | 13 | C | 1 | 1 | C1 |
| 2/14/2013 | La Plata | 13 | C | 2 | 1 | C1 Duplicado |
| 3/7/2013 | La Plata | 14 | Trip blank | 0 | N/A | Trip Blank |
| 3/7/2013 | La Plata | 14 | A | 1 | 1 | A1 |
| 3/7/2013 | La Plata | 14 | B | 1 | 1 | B1 |
| 3/7/2013 | La Plata | 14 | B | 1 | 5 | B5 |
| 3/7/2013 | La Plata | 14 | B | 1 | 10 | B10 |
| 3/7/2013 | La Plata | 14 | B | 1 | 15 | B15 |
| 3/7/2013 | La Plata | 14 | C | 1 | 1 | C1 |
| 3/7/2013 | La Plata | 14 | C | 2 | 1 | C1 Duplicado |
| 4/12/2013 | La Plata | 15 | Trip blank | 0 | N/A | Trip Blank |
| 4/12/2013 | La Plata | 15 | A | 1 | 1 | A1 |
| 4/12/2013 | La Plata | 15 | B | 1 | 1 | B1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/12/2013 | La Plata | 15 | B | 1 | 5 | B5 |
| 4/12/2013 | La Plata | 15 | B | 1 | 10 | B10 |
| 4/12/2013 | La Plata | 15 | B | 1 | 15 | B15 |
| 4/12/2013 | La Plata | 15 | C | 1 | 1 | C1 |
| 4/12/2013 | La Plata | 15 | C | 2 | 1 | C1 Duplicado |
| 6/6/2013 | La Plata | 16 | Trip blank | 0 | N/A | Trip Blank |
| 6/6/2013 | La Plata | 16 | A | 1 | 1 | A1 |
| 6/6/2013 | La Plata | 16 | B | 1 | 1 | B1 |
| 6/6/2013 | La Plata | 16 | B | 1 | 5 | B5 |
| 6/6/2013 | La Plata | 16 | B | 1 | 10 | B10 |
| 6/6/2013 | La Plata | 16 | B | 1 | 15 | B15 |
| 6/6/2013 | La Plata | 16 | C | 1 | 1 | C1 |
| 6/6/2013 | La Plata | 16 | C | 2 | 1 | C1 Duplicado |
| 8/7/2013 | La Plata | 17 | Trip blank | 0 | N/A | Trip Blank |
| 8/7/2013 | La Plata | 17 | A | 1 | 1 | A1 |
| 8/7/2013 | La Plata | 17 | B | 1 | 1 | B1 |
| 8/7/2013 | La Plata | 17 | B | 1 | 5 | B5 |
| 8/7/2013 | La Plata | 17 | B | 1 | 10 | B10 |
| 8/7/2013 | La Plata | 17 | B | 1 | 15 | B15 |
| 8/7/2013 | La Plata | 17 | C | 1 | 1 | C1 |
| 8/7/2013 | La Plata | 17 | C | 2 | 1 | C1 Duplicado |
| 9/10/2013 | La Plata | 18 | Trip blank | 0 | N/A | Trip Blank |
| 9/10/2013 | La Plata | 18 | A | 1 | 1 | A1 |
| 9/10/2013 | La Plata | 18 | B | 1 | 1 | B1 |
| 9/10/2013 | La Plata | 18 | B | 1 | 5 | B5 |
| 9/10/2013 | La Plata | 18 | B | 1 | 10 | B10 |
| 9/10/2013 | La Plata | 18 | B | 1 | 15 | B15 |
| 9/10/2013 | La Plata | 18 | C | 1 | 1 | C1 |
| 9/10/2013 | La Plata | 18 | C | 2 | 1 | C1 Duplicado |
| 10/8/2013 | La Plata | 19 | Trip blank | 0 | N/A | Trip Blank |
| 10/8/2013 | La Plata | 19 | A | 1 | 1 | A1 |
| 10/8/2013 | La Plata | 19 | B | 1 | 1 | B1 |
| 10/8/2013 | La Plata | 19 | B | 1 | 5 | B5 |
| 10/8/2013 | La Plata | 19 | B | 1 | 10 | B10 |
| 10/8/2013 | La Plata | 19 | B | 1 | 15 | B15 |
| 10/8/2013 | La Plata | 19 | C | 1 | 1 | C1 |
| 10/8/2013 | La Plata | 19 | C | 2 | 1 | C1 Duplicado |
| 10/23/2013 | La Plata | 20 | Trip blank | 0 | N/A | Trip Blank |
| 10/23/2013 | La Plata | 20 | A | 1 | 1 | A1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 10/23/2013 | La Plata | 20 | B | 1 | 1 | B1 |
| 10/23/2013 | La Plata | 20 | B | 1 | 5 | B5 |
| 10/23/2013 | La Plata | 20 | B | 1 | 10 | B10 |
| 10/23/2013 | La Plata | 20 | B | 1 | 15 | B15 |
| 10/23/2013 | La Plata | 20 | C | 1 | 1 | C1 |
| 10/23/2013 | La Plata | 20 | C | 2 | 1 | C1 Duplicado |
| 1/23/2014 | La Plata | 21 | Trip blank | 0 | N/A | Trip Blank |
| 1/23/2014 | La Plata | 21 | A | 1 | 1 | A1 |
| 1/23/2014 | La Plata | 21 | B | 1 | 1 | B1 |
| 1/23/2014 | La Plata | 21 | B | 1 | 5 | B5 |
| 1/23/2014 | La Plata | 21 | B | 1 | 10 | B10 |
| 1/23/2014 | La Plata | 21 | B | 1 | 15 | B15 |
| 1/23/2014 | La Plata | 21 | C | 1 | 1 | C1 |
| 1/23/2014 | La Plata | 21 | C | 2 | 1 | C1 Duplicado |
| 2/14/2014 | La Plata | 22 | Trip blank | 0 | N/A | Trip Blank |
| 2/14/2014 | La Plata | 22 | A | 1 | 1 | A1 |
| 2/14/2014 | La Plata | 22 | B | 1 | 1 | B1 |
| 2/14/2014 | La Plata | 22 | B | 1 | 5 | B5 |
| 2/14/2014 | La Plata | 22 | B | 1 | 10 | B10 |
| 2/14/2014 | La Plata | 22 | B | 1 | 15 | B15 |
| 2/14/2014 | La Plata | 22 | C | 1 | 1 | C1 |
| 2/14/2014 | La Plata | 22 | C | 2 | 1 | C1 Duplicado |
| 3/20/2014 | La Plata | 23 | Trip blank | 0 | N/A | Trip Blank |
| 3/20/2014 | La Plata | 23 | A | 1 | 1 | A1 |
| 3/20/2014 | La Plata | 23 | B | 1 | 1 | B1 |
| 3/20/2014 | La Plata | 23 | B | 1 | 5 | B5 |
| 3/20/2014 | La Plata | 23 | B | 1 | 10 | B10 |
| 3/20/2014 | La Plata | 23 | B | 1 | 15 | B15 |
| 3/20/2014 | La Plata | 23 | C | 1 | 1 | C1 |
| 3/20/2014 | La Plata | 23 | C | 2 | 1 | C1 Duplicado |
| 4/10/2014 | La Plata | 24 | Trip blank | 0 | N/A | Trip Blank |
| 4/10/2014 | La Plata | 24 | A | 1 | 1 | A1 |
| 4/10/2014 | La Plata | 24 | B | 1 | 1 | B1 |
| 4/10/2014 | La Plata | 24 | B | 1 | 5 | B5 |
| 4/10/2014 | La Plata | 24 | B | 1 | 10 | B10 |
| 4/10/2014 | La Plata | 24 | B | 1 | 15 | B14 |
| 4/10/2014 | La Plata | 24 | C | 1 | 1 | C1 |
| 4/10/2014 | La Plata | 24 | C | 2 | 1 | C1 Duplicado |
| 2/28/2012 | Cidra | 1 | Trip Blank | 0 | N/A | Trip blank |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2/28/2012 | Cidra | 1 | A | 1 | 1 | A-1 |
| 2/28/2012 | Cidra | 1 | B | 1 | 1 | B-1 |
| 2/28/2012 | Cidra | 1 | B | 1 | 5 | B-5 |
| 2/28/2012 | Cidra | 1 | B | 1 | 10 | B-10 |
| 2/28/2012 | Cidra | 1 | C | 1 | 1 | C-1 |
| 2/28/2012 | Cidra | 1 | C | 2 | 1 | C-1-D |
| 3/21/2012 | Cidra | 2 | Trip Blank | 0 | N/A | Trip blank |
| 3/21/2012 | Cidra | 2 | A | 1 | 1 | A-1 |
| 3/21/2012 | Cidra | 2 | B | 1 | 1 | B-1 |
| 3/21/2012 | Cidra | 2 | B | 1 | 5 | B-5 |
| 3/21/2012 | Cidra | 2 | C | 1 | 1 | C-1 |
| 3/21/2012 | Cidra | 2 | C | 2 | 1 | C-1-D |
| 4/11/2012 | Cidra | 3 | Trip Blank | 0 | N/A | Trip blank |
| 4/11/2012 | Cidra | 3 | A | 1 | 1 | A-1 |
| 4/11/2012 | Cidra | 3 | B | 1 | 1 | B-1 |
| 4/11/2012 | Cidra | 3 | B | 1 | 5 | B-5 |
| 4/11/2012 | Cidra | 3 | B | 1 | 10 | B-10 |
| 4/11/2012 | Cidra | 3 | C | 1 | 1 | C-1 |
| 4/11/2012 | Cidra | 3 | C | 2 | 1 | C-1-D |
| 5/1/2012 | Cidra | 4 | Trip Blank | 0 | N/A | Trip blank |
| 5/1/2012 | Cidra | 4 | A | 1 | 1 | A-1 |
| 5/1/2012 | Cidra | 4 | B | 1 | 1 | B-1 |
| 5/1/2012 | Cidra | 4 | B | 1 | 5 | B-5 |
| 5/1/2012 | Cidra | 4 | B | 1 | 10 | B-10 |
| 5/1/2012 | Cidra | 4 | B | 1 | 15 | B-15 |
| 5/1/2012 | Cidra | 4 | C | 1 | 1 | C-1 |
| 5/1/2012 | Cidra | 4 | C | 2 | 1 | C-1-D |
| 5/24/2012 | Cidra | 5 | Trip Blank | 0 | N/A | Trip blank |
| 5/24/2012 | Cidra | 5 | A | 1 | 1 | A-1 |
| 5/24/2012 | Cidra | 5 | B | 1 | 1 | B-1 |
| 5/24/2012 | Cidra | 5 | B | 1 | 5 | B-5 |
| 5/24/2012 | Cidra | 5 | B | 1 | 10 | B-10 |
| 5/24/2012 | Cidra | 5 | C | 1 | 1 | C-1 |
| 5/24/2012 | Cidra | 5 | C | 2 | 1 | C-1-D |
| 6/14/2012 | Cidra | 6 | Trip Blank | 0 | N/A | Trip blank |
| 6/14/2012 | Cidra | 6 | A | 1 | 1 | A-1 |
| 6/14/2012 | Cidra | 6 | B | 1 | 1 | B-1 |
| 6/14/2012 | Cidra | 6 | B | 1 | 5 | B-5 |
| 6/14/2012 | Cidra | 6 | C | 1 | 1 | C-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6/14/2012 | Cidra | 6 | C | 2 | 1 | C-1-D |
| 7/12/2012 | Cidra | 7 | Trip Blank | 0 | N/A | Trip blank |
| 7/12/2012 | Cidra | 7 | A | 1 | 1 | A-1 |
| 7/12/2012 | Cidra | 7 | B | 1 | 1 | B-1 |
| 7/12/2012 | Cidra | 7 | B | 1 | 5 | B-5 |
| 7/12/2012 | Cidra | 7 | B | 1 | 10 | B-10 |
| 7/12/2012 | Cidra | 7 | C | 1 | 1 | C-1 |
| 7/12/2012 | Cidra | 7 | C | 2 | 1 | C-1-D |
| 8/21/2012 | Cidra | 8 | Trip Blank | 0 | N/A | Trip blank |
| 8/21/2012 | Cidra | 8 | A | 1 | 1 | A-1 |
| 8/21/2012 | Cidra | 8 | B | 1 | 1 | B-1 |
| 8/21/2012 | Cidra | 8 | B | 1 | 5 | B-5 |
| 8/21/2012 | Cidra | 8 | C | 1 | 1 | C-1 |
| 8/21/2012 | Cidra | 8 | C | 2 | 1 | C-1-D |
| 9/4/2012 | Cidra | 9 | Trip Blank | 0 | N/A | Trip blank |
| 9/4/2012 | Cidra | 9 | A | 1 | 1 | A-1 |
| 9/4/2012 | Cidra | 9 | B | 1 | 1 | B-1 |
| 9/4/2012 | Cidra | 9 | B | 1 | 5 | B-5 |
| 9/4/2012 | Cidra | 9 | B | 1 | 10 | B-10 |
| 9/4/2012 | Cidra | 9 | C | 1 | 1 | C-1 |
| 9/4/2012 | Cidra | 9 | C | 2 | 1 | C-1-D |
| 10/15/2012 | Cidra | 10 | Trip Blank | 0 | N/A | Trip blank |
| 10/15/2012 | Cidra | 10 | A | 1 | 1 | A-1 |
| 10/15/2012 | Cidra | 10 | B | 1 | 1 | B-1 |
| 10/15/2012 | Cidra | 10 | B | 1 | 5 | B-5 |
| 10/15/2012 | Cidra | 10 | B | 1 | 10 | B-10 |
| 10/15/2012 | Cidra | 10 | C | 1 | 1 | C-1 |
| 10/15/2012 | Cidra | 10 | C | 2 | 1 | C-1-D |
| 11/15/2012 | Cidra | 11 | Trip Blank | 0 | N/A | Trip blank |
| 11/15/2012 | Cidra | 11 | A | 1 | 1 | A-1 |
| 11/15/2012 | Cidra | 11 | B | 1 | 1 | B-1 |
| 11/15/2012 | Cidra | 11 | B | 1 | 5 | B-5 |
| 11/15/2012 | Cidra | 11 | B | 1 | 10 | B-10 |
| 11/15/2012 | Cidra | 11 | C | 1 | 1 | C-1 |
| 11/15/2012 | Cidra | 11 | C | 2 | 1 | C-1-D |
| 1/15/2013 | Cidra | 12 | Trip Blank | 0 | N/A | Trip blank |
| 1/15/2013 | Cidra | 12 | A | 1 | 1 | A-1 |
| 1/15/2013 | Cidra | 12 | B | 1 | 1 | B-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1/15/2013 | Cidra | 12 | B | 1 | 5 | B-5 |
| 1/15/2013 | Cidra | 12 | B | 1 | 10 | B-10 |
| 1/15/2013 | Cidra | 12 | C | 1 | 1 | C-1 |
| 1/15/2013 | Cidra | 12 | C | 2 | 1 | C-1-D |
| 2/7/2013 | Cidra | 13 | Trip Blank | 0 | N/A | Trip blank |
| 2/7/2013 | Cidra | 13 | A | 1 | 1 | A-1 |
| 2/7/2013 | Cidra | 13 | B | 1 | 1 | B-1 |
| 2/7/2013 | Cidra | 13 | B | 1 | 5 | B-5 |
| 2/7/2013 | Cidra | 13 | B | 1 | 10 | B-10 |
| 2/7/2013 | Cidra | 13 | C | 1 | 1 | C-1 |
| 2/7/2013 | Cidra | 13 | C | 2 | 1 | C-1-D |
| 2/28/2013 | Cidra | 14 | Trip Blank | 0 | N/A | Trip blank |
| 2/28/2013 | Cidra | 14 | A | 1 | 1 | A-1 |
| 2/28/2013 | Cidra | 14 | B | 1 | 1 | B-1 |
| 2/28/2013 | Cidra | 14 | B | 1 | 5 | B-5 |
| 2/28/2013 | Cidra | 14 | C | 1 | 1 | C-1 |
| 2/28/2013 | Cidra | 14 | C | 2 | 1 | C-1-D |
| 3/13/2013 | Cidra | 15 | Trip Blank | 0 | N/A | Trip blank |
| 3/13/2013 | Cidra | 15 | A | 1 | 1 | A-1 |
| 3/13/2013 | Cidra | 15 | B | 1 | 1 | B-1 |
| 3/13/2013 | Cidra | 15 | B | 1 | 5 | B-5 |
| 3/13/2013 | Cidra | 15 | B | 1 | 10 | B-10 |
| 3/13/2013 | Cidra | 15 | C | 1 | 1 | C-1 |
| 3/13/2013 | Cidra | 15 | C | 2 | 1 | C-1-D |
| 6/11/2013 | Cidra | 16 | Trip Blank | 0 | N/A | Trip blank |
| 6/11/2013 | Cidra | 16 | A | 1 | 1 | A-1 |
| 6/11/2013 | Cidra | 16 | B | 1 | 1 | B-1 |
| 6/11/2013 | Cidra | 16 | B | 1 | 5 | B-5 |
| 6/11/2013 | Cidra | 16 | C | 1 | 1 | C-1 |
| 6/11/2013 | Cidra | 16 | C | 2 | 1 | C-1-D |
| 7/2/2013 | Cidra | 17 | Trip Blank | 0 | N/A | Trip blank |
| 7/2/2013 | Cidra | 17 | A | 1 | 1 | A-1 |
| 7/2/2013 | Cidra | 17 | B | 1 | 1 | B-1 |
| 7/2/2013 | Cidra | 17 | B | 1 | 5 | B-5 |
| 7/2/2013 | Cidra | 17 | B | 1 | 10 | B-10 |
| 7/2/2013 | Cidra | 17 | C | 1 | 1 | C-1 |
| 7/2/2013 | Cidra | 17 | C | 2 | 1 | C-1-D |
| 8/13/2013 | Cidra | 18 | Trip Blank | 0 | N/A | Trip blank |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8/13/2013 | Cidra | 18 | A | 1 | 1 | A-1 |
| 8/13/2013 | Cidra | 18 | B | 1 | 1 | B-1 |
| 8/13/2013 | Cidra | 18 | B | 1 | 5 | B-5 |
| 8/13/2013 | Cidra | 18 | C | 1 | 1 | C-1 |
| 8/13/2013 | Cidra | 18 | C | 2 | 1 | C-1-D |
| 9/3/2013 | Cidra | 19 | Trip Blank | 0 | N/A | Trip blank |
| 9/3/2013 | Cidra | 19 | A | 1 | 1 | A-1 |
| 9/3/2013 | Cidra | 19 | B | 1 | 1 | B-1 |
| 9/3/2013 | Cidra | 19 | B | 1 | 5 | B-5 |
| 9/3/2013 | Cidra | 19 | B | 1 | 10 | B-10 |
| 9/3/2013 | Cidra | 19 | C | 1 | 1 | C-1 |
| 9/3/2013 | Cidra | 19 | C | 2 | 1 | C-1-D |
| 10/3/2013 | Cidra | 20 | Trip Blank | 0 | N/A | Trip blank |
| 10/3/2013 | Cidra | 20 | A | 1 | 1 | A-1 |
| 10/3/2013 | Cidra | 20 | B | 1 | 1 | B-1 |
| 10/3/2013 | Cidra | 20 | B | 1 | 5 | B-5 |
| 10/3/2013 | Cidra | 20 | B | 1 | 10 | B-10 |
| 10/3/2013 | Cidra | 20 | C | 1 | 1 | C-1 |
| 10/3/2013 | Cidra | 20 | C | 2 | 1 | C-1-D |
| 2/5/2014 | Cidra | 21 | Trip Blank | 0 | N/A | Trip blank |
| 2/5/2014 | Cidra | 21 | A | 1 | 1 | A-1 |
| 2/5/2014 | Cidra | 21 | B | 1 | 1 | B-1 |
| 2/5/2014 | Cidra | 21 | B | 1 | 5 | B-5 |
| 2/5/2014 | Cidra | 21 | C | 1 | 1 | C-1 |
| 2/5/2014 | Cidra | 21 | C | 2 | 1 | C-1-D |
| 2/27/2014 | Cidra | 22 | Trip Blank | 0 | N/A | Trip blank |
| 2/27/2014 | Cidra | 22 | A | 1 | 1 | A-1 |
| 2/27/2014 | Cidra | 22 | B | 1 | 1 | B-1 |
| 2/27/2014 | Cidra | 22 | B | 1 | 5 | B-5 |
| 2/27/2014 | Cidra | 22 | B | 1 | 10 | B-10 |
| 2/27/2014 | Cidra | 22 | C | 1 | 1 | C-1 |
| 2/27/2014 | Cidra | 22 | C | 2 | 1 | C-1-D |
| 3/26/2014 | Cidra | 23 | Trip Blank | 0 | N/A | Trip blank |
| 3/26/2014 | Cidra | 23 | A | 1 | 1 | A-1 |
| 3/26/2014 | Cidra | 23 | B | 1 | 1 | B-1 |
| 3/26/2014 | Cidra | 23 | B | 1 | 5 | B-5 |
| 3/26/2014 | Cidra | 23 | B | 1 | 10 | B-10 |
| 3/26/2014 | Cidra | 23 | C | 1 | 1 | C-1 |
| 3/26/2014 | Cidra | 23 | C | 2 | 1 | C-1-D |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/15/2014 | Cidra | 24 | Trip Blank | 0 | N/A | Trip blank |
| 4/15/2014 | Cidra | 24 | A | 1 | 1 | A-1 |
| 4/15/2014 | Cidra | 24 | B | 1 | 1 | B-1 |
| 4/15/2014 | Cidra | 24 | B | 1 | 5 | B-5 |
| 4/15/2014 | Cidra | 24 | C | 1 | 1 | C-1 |
| 4/15/2014 | Cidra | 24 | C | 2 | 1 | C-1-D |
| 2/14/2012 | Patillas | 1 | trip blank | 0 | n/A | Trip Blank |
| 2/14/2012 | Patillas | 1 | A | 1 | 1 | A1 |
| 2/14/2012 | Patillas | 1 | B | 1 | 1 | B1 |
| 2/14/2012 | Patillas | 1 | B | 1 | 5 | B5 |
| 2/14/2012 | Patillas | 1 | B | 1 | 10 | B10 |
| 2/14/2012 | Patillas | 1 | B | 1 | 15 | B15 |
| 2/14/2012 | Patillas | 1 | C | 1 | 1 | C1 |
| 2/14/2012 | Patillas | 1 | C | 2 | 1 | C-1-D |
| 3/13/2012 | Patillas | 2 | trip blank | 0 | n/A | Trip Blank |
| 3/13/2012 | Patillas | 2 | A | 1 | 1 | A-1 |
| 3/13/2012 | Patillas | 2 | B | 1 | 1 | B-1 |
| 3/13/2012 | Patillas | 2 | B | 1 | 5 | B-5 |
| 3/13/2012 | Patillas | 2 | B | 1 | 10 | B-10 |
| 3/13/2012 | Patillas | 2 | B | 1 | 15 | B-15 |
| 3/13/2012 | Patillas | 2 | C | 1 | 1 | C-1 |
| 3/13/2012 | Patillas | 2 | C | 2 | 1 | C-1 -D |
| 4/3/2012 | Patillas | 3 | trip blank | 0 | n/A | Trip Blank |
| 4/3/2012 | Patillas | 3 | A | 1 | 1 | A1 |
| 4/3/2012 | Patillas | 3 | B | 1 | 1 | B1 |
| 4/3/2012 | Patillas | 3 | B | 1 | 5 | B5 |
| 4/3/2012 | Patillas | 3 | B | 1 | 10 | B10 |
| 4/3/2012 | Patillas | 3 | B | 1 | 15 | B15 |
| 4/3/2012 | Patillas | 3 | C | 1 | 1 | C1 |
| 4/3/2012 | Patillas | 3 | C | 2 | 1 | C1 Duplicado |
| 4/17/2012 | Patillas | 4 | trip blank | 0 | n/A | Trip Blank |
| 4/17/2012 | Patillas | 4 | A | 1 | 1 | A1 |
| 4/17/2012 | Patillas | 4 | B | 1 | 1 | B1 |
| 4/17/2012 | Patillas | 4 | B | 1 | 5 | B5 |
| 4/17/2012 | Patillas | 4 | B | 1 | 10 | B10 |
| 4/17/2012 | Patillas | 4 | B | 1 | 15 | B15 |
| 4/17/2012 | Patillas | 4 | C | 1 | 1 | C1 |
| 4/17/2012 | Patillas | 4 | C | 2 | 1 | C1 Duplicado |

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|---|---|---|---|---|---|---|
| 5/10/2012 | Patillas | 5 | trip blank | 0 | n/A | Trip Blank |
| 5/10/2012 | Patillas | 5 | A | 1 | 1 | A1 |
| 5/10/2012 | Patillas | 5 | B | 1 | 1 | B1 |
| 5/10/2012 | Patillas | 5 | B | 1 | 5 | B5 |
| 5/10/2012 | Patillas | 5 | B | 1 | 10 | B10 |
| 5/10/2012 | Patillas | 5 | B | 1 | 15 | B15 |
| 5/10/2012 | Patillas | 5 | C | 1 | 1 | C1 |
| 5/10/2012 | Patillas | 5 | C | 2 | 1 | C1 Duplicado |
| 5/30/2012 | Patillas | 6 | trip blank | 0 | n/A | Trip Blank |
| 5/30/2012 | Patillas | 6 | A | 1 | 1 | A1 |
| 5/30/2012 | Patillas | 6 | B | 1 | 1 | B1 |
| 5/30/2012 | Patillas | 6 | B | 1 | 5 | B5 |
| 5/30/2012 | Patillas | 6 | B | 1 | 10 | B10 |
| 5/30/2012 | Patillas | 6 | B | 1 | 15 | B15 |
| 5/30/2012 | Patillas | 6 | C | 1 | 1 | C1 |
| 5/30/2012 | Patillas | 6 | C | 2 | 1 | C1 Duplicado |
| 6/27/2012 | Patillas | 7 | trip blank | 0 | n/A | Trip Blank |
| 6/27/2012 | Patillas | 7 | A | 1 | 1 | A1 |
| 6/27/2012 | Patillas | 7 | B | 1 | 1 | B1 |
| 6/27/2012 | Patillas | 7 | B | 1 | 5 | B5 |
| 6/27/2012 | Patillas | 7 | B | 1 | 10 | B10 |
| 6/27/2012 | Patillas | 7 | B | 1 | 15 | B15 |
| 6/27/2012 | Patillas | 7 | C | 1 | 1 | C1 |
| 6/27/2012 | Patillas | 7 | C | 2 | 1 | C1 Duplicado |
| 9/12/2012 | Patillas | 8 | trip blank | 0 | n/A | Trip Blank |
| 9/12/2012 | Patillas | 8 | A | 1 | 1 | A1 |
| 9/12/2012 | Patillas | 8 | B | 1 | 1 | B1 |
| 9/12/2012 | Patillas | 8 | B | 1 | 5 | B5 |
| 9/12/2012 | Patillas | 8 | B | 1 | 10 | B10 |
| 9/12/2012 | Patillas | 8 | B | 1 | 15 | B15 |
| 9/12/2012 | Patillas | 8 | C | 1 | 1 | C1 |
| 9/12/2012 | Patillas | 8 | C | 2 | 1 | C1 Duplicado |
| 10/3/2012 | Patillas | 9 | trip blank | 0 | n/A | Trip Blank |
| 10/3/2012 | Patillas | 9 | A | 1 | 1 | A1 |
| 10/3/2012 | Patillas | 9 | B | 1 | 1 | B1 |
| 10/3/2012 | Patillas | 9 | B | 1 | 5 | B5 |
| 10/3/2012 | Patillas | 9 | B | 1 | 10 | B10 |
| 10/3/2012 | Patillas | 9 | B | 1 | 15 | B15 |
| 10/3/2012 | Patillas | 9 | C | 1 | 1 | C1 |

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|---|---|---|---|---|---|---|
| 10/3/2012 | Patillas | 9 | C | 2 | 1 | C1 Duplicado |
| 11/13/2012 | Patillas | 10 | trip blank | 0 | n/A | Trip Blank |
| 11/13/2012 | Patillas | 10 | A | 1 | 1 | A1 |
| 11/13/2012 | Patillas | 10 | B | 1 | 1 | B1 |
| 11/13/2012 | Patillas | 10 | B | 1 | 5 | B5 |
| 11/13/2012 | Patillas | 10 | B | 1 | 10 | B10 |
| 11/13/2012 | Patillas | 10 | B | 1 | 15 | B15 |
| 11/13/2012 | Patillas | 10 | C | 1 | 1 | C1 |
| 11/13/2012 | Patillas | 10 | C | 2 | 1 | C1 Duplicado |
| 11/29/2012 | Patillas | 11 | trip blank | 0 | n/A | Trip Blank |
| 11/29/2012 | Patillas | 11 | A | 1 | 1 | A1 |
| 11/29/2012 | Patillas | 11 | B | 1 | 1 | B1 |
| 11/29/2012 | Patillas | 11 | B | 1 | 5 | B5 |
| 11/29/2012 | Patillas | 11 | B | 1 | 10 | B10 |
| 11/29/2012 | Patillas | 11 | B | 1 | 15 | B15 |
| 11/29/2012 | Patillas | 11 | C | 1 | 1 | C1 |
| 11/29/2012 | Patillas | 11 | C | 2 | 1 | C1 Duplicado |
| 1/22/2013 | Patillas | 12 | trip blank | 0 | n/A | Trip Blank |
| 1/22/2013 | Patillas | 12 | A | 1 | 1 | A1 |
| 1/22/2013 | Patillas | 12 | B | 1 | 1 | B1 |
| 1/22/2013 | Patillas | 12 | B | 1 | 5 | B5 |
| 1/22/2013 | Patillas | 12 | B | 1 | 10 | B10 |
| 1/22/2013 | Patillas | 12 | B | 1 | 15 | B15 |
| 1/22/2013 | Patillas | 12 | C | 1 | 1 | C1 |
| 1/22/2013 | Patillas | 12 | C | 2 | 1 | C1 Duplicado |
| 2/13/2013 | Patillas | 13 | trip blank | 0 | n/A | Trip Blank |
| 2/13/2013 | Patillas | 13 | A | 1 | 1 | A1 |
| 2/13/2013 | Patillas | 13 | B | 1 | 1 | B1 |
| 2/13/2013 | Patillas | 13 | B | 1 | 5 | B5 |
| 2/13/2013 | Patillas | 13 | B | 1 | 10 | B10 |
| 2/13/2013 | Patillas | 13 | B | 1 | 15 | B15 |
| 2/13/2013 | Patillas | 13 | C | 1 | 1 | C1 |
| 2/13/2013 | Patillas | 13 | C | 2 | 1 | C1 Duplicado |
| 3/12/2013 | Patillas | 14 | trip blank | 0 | n/A | Trip Blank |
| 3/12/2013 | Patillas | 14 | A | 1 | 1 | A1 |
| 3/12/2013 | Patillas | 14 | B | 1 | 1 | B1 |
| 3/12/2013 | Patillas | 14 | B | 1 | 5 | B5 |
| 3/12/2013 | Patillas | 14 | B | 1 | 10 | B10 |
| 3/12/2013 | Patillas | 14 | B | 1 | 15 | B15 |

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|---|---|---|---|---|---|---|
| 3/12/2013 | Patillas | 14 | C | 1 | 1 | C1 |
| 3/12/2013 | Patillas | 14 | C | 2 | 1 | C1 Duplicado |
| 4/2/2013 | Patillas | 15 | trip blank | 0 | n/A | Trip Blank |
| 4/2/2013 | Patillas | 15 | A | 1 | 1 | A1 |
| 4/2/2013 | Patillas | 15 | B | 1 | 1 | B1 |
| 4/2/2013 | Patillas | 15 | B | 1 | 5 | B5 |
| 4/2/2013 | Patillas | 15 | B | 1 | 10 | B10 |
| 4/2/2013 | Patillas | 15 | B | 1 | 15 | B15 |
| 4/2/2013 | Patillas | 15 | C | 1 | 1 | C1 |
| 4/2/2013 | Patillas | 15 | C | 2 | 1 | C1 Duplicado |
| 6/18/2013 | Patillas | 16 | trip blank | 0 | n/A | Trip Blank |
| 6/18/2013 | Patillas | 16 | A | 1 | 1 | A1 |
| 6/18/2013 | Patillas | 16 | B | 1 | 1 | B1 |
| 6/18/2013 | Patillas | 16 | B | 1 | 5 | B5 |
| 6/18/2013 | Patillas | 16 | B | 1 | 10 | B10 |
| 6/18/2013 | Patillas | 16 | B | 1 | 15 | B15 |
| 6/18/2013 | Patillas | 16 | C | 1 | 1 | C1 |
| 6/18/2013 | Patillas | 16 | C | 2 | 1 | C1 Duplicado |
| 7/9/2013 | Patillas | 17 | trip blank | 0 | n/A | Trip Blank |
| 7/9/2013 | Patillas | 17 | A | 1 | 1 | A1 |
| 7/9/2013 | Patillas | 17 | B | 1 | 1 | B1 |
| 7/9/2013 | Patillas | 17 | B | 1 | 5 | B5 |
| 7/9/2013 | Patillas | 17 | B | 1 | 10 | B10 |
| 7/9/2013 | Patillas | 17 | B | 1 | 15 | B15 |
| 7/9/2013 | Patillas | 17 | C | 1 | 1 | C1 |
| 7/9/2013 | Patillas | 17 | C | 2 | 1 | C1 Duplicado |
| 8/8/2013 | Patillas | 18 | trip blank | 0 | n/A | Trip Blank |
| 8/8/2013 | Patillas | 18 | A | 1 | 1 | A1 |
| 8/8/2013 | Patillas | 18 | B | 1 | 1 | B1 |
| 8/8/2013 | Patillas | 18 | B | 1 | 5 | B5 |
| 8/8/2013 | Patillas | 18 | B | 1 | 10 | B10 |
| 8/8/2013 | Patillas | 18 | B | 1 | 15 | B15 |
| 8/8/2013 | Patillas | 18 | C | 1 | 1 | C1 |
| 8/8/2013 | Patillas | 18 | C | 2 | 1 | C1 Duplicado |
| 9/19/2013 | Patillas | 19 | trip blank | 0 | n/A | Trip Blank |
| 9/19/2013 | Patillas | 19 | A | 1 | 1 | A1 |
| 9/19/2013 | Patillas | 19 | B | 1 | 1 | B1 |
| 9/19/2013 | Patillas | 19 | B | 1 | 5 | B5 |
| 9/19/2013 | Patillas | 19 | B | 1 | 10 | B10 |

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|---|---|---|---|---|---|---|
| 9/19/2013 | Patillas | 19 | B | 1 | 15 | B15 |
| 9/19/2013 | Patillas | 19 | C | 1 | 1 | C1 |
| 9/19/2013 | Patillas | 19 | C | 2 | 1 | C1 Duplicado |
| 10/10/2013 | Patillas | 20 | trip blank | 0 | n/A | Trip Blank |
| 10/10/2013 | Patillas | 20 | A | 1 | 1 | A1 |
| 10/10/2013 | Patillas | 20 | B | 1 | 1 | B1 |
| 10/10/2013 | Patillas | 20 | B | 1 | 5 | B5 |
| 10/10/2013 | Patillas | 20 | B | 1 | 10 | B10 |
| 10/10/2013 | Patillas | 20 | B | 1 | 15 | B15 |
| 10/10/2013 | Patillas | 20 | C | 1 | 1 | C1 |
| 10/10/2013 | Patillas | 20 | C | 2 | 1 | C1 Duplicado |
| 1/30/2014 | Patillas | 21 | trip blank | 0 | n/A | Trip Blank |
| 1/30/2014 | Patillas | 21 | A | 1 | 1 | A1 |
| 1/30/2014 | Patillas | 21 | B | 1 | 1 | B1 |
| 1/30/2014 | Patillas | 21 | B | 1 | 5 | B5 |
| 1/30/2014 | Patillas | 21 | B | 1 | 10 | B10 |
| 1/30/2014 | Patillas | 21 | B | 1 | 15 | B15 |
| 1/30/2014 | Patillas | 21 | C | 1 | 1 | C1 |
| 1/30/2014 | Patillas | 21 | C | 2 | 1 | C1 Duplicado |
| 3/4/2014 | Patillas | 22 | trip blank | 0 | n/A | Trip Blank |
| 3/4/2014 | Patillas | 22 | A | 1 | 1 | A1 |
| 3/4/2014 | Patillas | 22 | B | 1 | 1 | B1 |
| 3/4/2014 | Patillas | 22 | B | 1 | 5 | B5 |
| 3/4/2014 | Patillas | 22 | B | 1 | 10 | B10 |
| 3/4/2014 | Patillas | 22 | B | 1 | 15 | B15 |
| 3/4/2014 | Patillas | 22 | C | 1 | 1 | C1 |
| 3/4/2014 | Patillas | 22 | C | 2 | 1 | C1 Duplicado |
| 4/1/2014 | Patillas | 23 | trip blank | 0 | n/A | Trip Blank |
| 4/1/2014 | Patillas | 23 | A | 1 | 1 | A1 |
| 4/1/2014 | Patillas | 23 | B | 1 | 1 | B1 |
| 4/1/2014 | Patillas | 23 | B | 1 | 5 | B5 |
| 4/1/2014 | Patillas | 23 | B | 1 | 10 | B10 |
| 4/1/2014 | Patillas | 23 | B | 1 | 15 | B15 |
| 4/1/2014 | Patillas | 23 | C | 1 | 1 | C1 |
| 4/1/2014 | Patillas | 23 | C | 2 | 1 | C1 Duplicado |
| 4/29/2014 | Patillas | 24 | trip blank | 0 | n/A | Trip Blank |
| 4/29/2014 | Patillas | 24 | A | 1 | 1 | A1 |
| 4/29/2014 | Patillas | 24 | B | 1 | 1 | B1 |
| 4/29/2014 | Patillas | 24 | B | 1 | 5 | B5 |

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|---|---|---|---|---|---|---|
| 4/29/2014 | Patillas | 24 | B | 1 | 10 | B10 |
| 4/29/2014 | Patillas | 24 | B | 1 | 15 | B15 |
| 4/29/2014 | Patillas | 24 | C | 1 | 1 | C1 |
| 4/29/2014 | Patillas | 24 | C | 2 | 1 | C1 Duplicado |
| 2/8/2012 | Toa Vaca | 1 | Trip Blank | 0 | N/a | Trip Blank |
| 2/8/2012 | Toa Vaca | 1 | A | 1 | 1 | A-1 |
| 2/8/2012 | Toa Vaca | 1 | B | 1 | 1 | B-1 |
| 2/8/2012 | Toa Vaca | 1 | B | 1 | 5 | B-5 |
| 2/8/2012 | Toa Vaca | 1 | B | 1 | 10 | B-10 |
| 2/8/2012 | Toa Vaca | 1 | B | 1 | 15 | B-15 |
| 2/8/2012 | Toa Vaca | 1 | C | 1 | 1 | C-1 |
| 2/8/2012 | Toa Vaca | 1 | C | 2 | 1 | C-1-D |
| 3/8/2012 | Toa Vaca | 2 | Trip Blank | 0 | N/a | Trip Blank |
| 3/8/2012 | Toa Vaca | 2 | A | 1 | 1 | A-1 |
| 3/8/2012 | Toa Vaca | 2 | B | 1 | 1 | B-1 |
| 3/8/2012 | Toa Vaca | 2 | B | 1 | 5 | B-5 |
| 3/8/2012 | Toa Vaca | 2 | B | 1 | 10 | B-10 |
| 3/8/2012 | Toa Vaca | 2 | B | 1 | 15 | B-15 |
| 3/8/2012 | Toa Vaca | 2 | C | 1 | 1 | C-1 |
| 3/8/2012 | Toa Vaca | 2 | C | 2 | 1 | C-1 -D |
| 3/29/2012 | Toa Vaca | 3 | Trip Blank | 0 | N/a | Trip Blank |
| 3/29/2012 | Toa Vaca | 3 | A | 1 | 1 | A-1 |
| 3/29/2012 | Toa Vaca | 3 | B | 1 | 1 | B-1 |
| 3/29/2012 | Toa Vaca | 3 | B | 1 | 5 | B-5 |
| 3/29/2012 | Toa Vaca | 3 | B | 1 | 10 | B-10 |
| 3/29/2012 | Toa Vaca | 3 | B | 1 | 15 | B-15 |
| 3/29/2012 | Toa Vaca | 3 | C | 1 | 1 | C-1 |
| 3/29/2012 | Toa Vaca | 3 | C | 2 | 1 | C-1 Duplicado |
| 5/2/2012 | Toa Vaca | 4 | Trip Blank | 0 | N/a | Trip Blank |
| 5/2/2012 | Toa Vaca | 4 | A | 1 | 1 | A-1 |
| 5/2/2012 | Toa Vaca | 4 | B | 1 | 1 | B-1 |
| 5/2/2012 | Toa Vaca | 4 | B | 1 | 5 | B-5 |
| 5/2/2012 | Toa Vaca | 4 | B | 1 | 10 | B-10 |
| 5/2/2012 | Toa Vaca | 4 | B | 1 | 15 | B-15 |
| 5/2/2012 | Toa Vaca | 4 | C | 1 | 1 | C-1 |
| 5/2/2012 | Toa Vaca | 4 | C | 2 | 1 | C-1 Duplicado |
| 5/23/2012 | Toa Vaca | 5 | Trip Blank | 0 | N/a | Trip Blank |
| 5/23/2012 | Toa Vaca | 5 | A | 1 | 1 | A-1 |
| 5/23/2012 | Toa Vaca | 5 | B | 1 | 1 | B-1 |

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|---|---|---|---|---|---|---|
| 5/23/2012 | Toa Vaca | 5 | B | 1 | 5 | B-5 |
| 5/23/2012 | Toa Vaca | 5 | B | 1 | 10 | B-10 |
| 5/23/2012 | Toa Vaca | 5 | B | 1 | 15 | B-15 |
| 5/23/2012 | Toa Vaca | 5 | C | 1 | 1 | C-1 |
| 5/23/2012 | Toa Vaca | 5 | C | 2 | 1 | C-1 Duplicado |
| 6/13/2012 | Toa Vaca | 6 | Trip Blank | 0 | N/a | Trip Blank |
| 6/13/2012 | Toa Vaca | 6 | A | 1 | 1 | A-1 |
| 6/13/2012 | Toa Vaca | 6 | B | 1 | 1 | B-1 |
| 6/13/2012 | Toa Vaca | 6 | B | 1 | 5 | B-5 |
| 6/13/2012 | Toa Vaca | 6 | B | 1 | 10 | B-10 |
| 6/13/2012 | Toa Vaca | 6 | B | 1 | 15 | B-15 |
| 6/13/2012 | Toa Vaca | 6 | C | 1 | 1 | C-1 |
| 6/13/2012 | Toa Vaca | 6 | C | 2 | 1 | C-1 Duplicado |
| 7/3/2012 | Toa Vaca | 7 | Trip Blank | 0 | N/a | Trip Blank |
| 7/3/2012 | Toa Vaca | 7 | A | 1 | 1 | A-1 |
| 7/3/2012 | Toa Vaca | 7 | B | 1 | 1 | B-1 |
| 7/3/2012 | Toa Vaca | 7 | B | 1 | 5 | B-5 |
| 7/3/2012 | Toa Vaca | 7 | B | 1 | 10 | B-10 |
| 7/3/2012 | Toa Vaca | 7 | B | 1 | 15 | B-15 |
| 7/3/2012 | Toa Vaca | 7 | C | 1 | 1 | C-1 |
| 7/3/2012 | Toa Vaca | 7 | C | 2 | 1 | C-1 Duplicado |
| 9/6/2012 | Toa Vaca | 8 | Trip Blank | 0 | N/a | Trip Blank |
| 9/6/2012 | Toa Vaca | 8 | A | 1 | 1 | A-1 |
| 9/6/2012 | Toa Vaca | 8 | B | 1 | 1 | B-1 |
| 9/6/2012 | Toa Vaca | 8 | B | 1 | 5 | B-5 |
| 9/6/2012 | Toa Vaca | 8 | B | 1 | 10 | B-10 |
| 9/6/2012 | Toa Vaca | 8 | B | 1 | 15 | B-15 |
| 9/6/2012 | Toa Vaca | 8 | C | 1 | 1 | C-1 |
| 9/6/2012 | Toa Vaca | 8 | C | 2 | 1 | C-1 Duplicado |
| 11/8/2012 | Toa Vaca | 9 | Trip Blank | 0 | N/a | Trip Blank |
| 11/8/2012 | Toa Vaca | 9 | A | 1 | 1 | A-1 |
| 11/8/2012 | Toa Vaca | 9 | B | 1 | 1 | B-1 |
| 11/8/2012 | Toa Vaca | 9 | B | 1 | 5 | B-5 |
| 11/8/2012 | Toa Vaca | 9 | B | 1 | 10 | B-10 |
| 11/8/2012 | Toa Vaca | 9 | B | 1 | 15 | B-15 |
| 11/8/2012 | Toa Vaca | 9 | C | 1 | 1 | C-1 |
| 11/8/2012 | Toa Vaca | 9 | C | 2 | 1 | C-1 Duplicado |
| 12/4/2012 | Toa Vaca | 10 | Trip Blank | 0 | N/a | Trip Blank |
| 12/4/2012 | Toa Vaca | 10 | A | 1 | 1 | A-1 |

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|---|---|---|---|---|---|---|
| 12/4/2012 | Toa Vaca | 10 | B | 1 | 1 | B-1 |
| 12/4/2012 | Toa Vaca | 10 | B | 1 | 5 | B-5 |
| 12/4/2012 | Toa Vaca | 10 | B | 1 | 10 | B-10 |
| 12/4/2012 | Toa Vaca | 10 | B | 1 | 15 | B-15 |
| 12/4/2012 | Toa Vaca | 10 | C | 1 | 1 | C-1 |
| 12/4/2012 | Toa Vaca | 10 | C | 2 | 1 | C-1 Duplicado |
| 4/24/2013 | Toa Vaca | 11 | Trip Blank | 0 | N/a | Trip Blank |
| 4/24/2013 | Toa Vaca | 11 | A | 1 | 1 | A-1 |
| 4/24/2013 | Toa Vaca | 11 | B | 1 | 1 | B-1 |
| 4/24/2013 | Toa Vaca | 11 | B | 1 | 5 | B-5 |
| 4/24/2013 | Toa Vaca | 11 | B | 1 | 10 | B-10 |
| 4/24/2013 | Toa Vaca | 11 | B | 1 | 15 | B-15 |
| 4/24/2013 | Toa Vaca | 11 | C | 1 | 1 | C-1 |
| 4/24/2013 | Toa Vaca | 11 | C | 2 | 1 | C-1 Duplicado |
| 5/8/2013 | Toa Vaca | 12 | Trip Blank | 0 | N/a | Trip Blank |
| 5/8/2013 | Toa Vaca | 12 | A | 1 | 1 | A-1 |
| 5/8/2013 | Toa Vaca | 12 | B | 1 | 1 | B-1 |
| 5/8/2013 | Toa Vaca | 12 | B | 1 | 5 | B-5 |
| 5/8/2013 | Toa Vaca | 12 | B | 1 | 10 | B-10 |
| 5/8/2013 | Toa Vaca | 12 | B | 1 | 15 | B-15 |
| 5/8/2013 | Toa Vaca | 12 | C | 1 | 1 | C-1 |
| 5/8/2013 | Toa Vaca | 12 | C | 2 | 1 | C-1 Duplicado |
| 6/4/2013 | Toa Vaca | 13 | Trip Blank | 0 | N/a | Trip Blank |
| 6/4/2013 | Toa Vaca | 13 | A | 1 | 1 | A-1 |
| 6/4/2013 | Toa Vaca | 13 | B | 1 | 1 | B-1 |
| 6/4/2013 | Toa Vaca | 13 | B | 1 | 5 | B-5 |
| 6/4/2013 | Toa Vaca | 13 | B | 1 | 10 | B-10 |
| 6/4/2013 | Toa Vaca | 13 | B | 1 | 15 | B-15 |
| 6/4/2013 | Toa Vaca | 13 | C | 1 | 1 | C-1 |
| 6/4/2013 | Toa Vaca | 13 | C | 2 | 1 | C-1 Duplicado |
| 6/25/2013 | Toa Vaca | 14 | Trip Blank | 0 | N/a | Trip Blank |
| 6/25/2013 | Toa Vaca | 14 | A | 1 | 1 | A-1 |
| 6/25/2013 | Toa Vaca | 14 | B | 1 | 1 | B-1 |
| 6/25/2013 | Toa Vaca | 14 | B | 1 | 5 | B-5 |
| 6/25/2013 | Toa Vaca | 14 | B | 1 | 10 | B-10 |
| 6/25/2013 | Toa Vaca | 14 | B | 1 | 15 | B-15 |
| 6/25/2013 | Toa Vaca | 14 | C | 1 | 1 | C-1 |
| 6/25/2013 | Toa Vaca | 14 | C | 2 | 1 | C-1 Duplicado |
| 8/15/2013 | Toa Vaca | 15 | Trip Blank | 0 | N/a | Trip Blank |

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|---|---|---|---|---|---|---|
| 8/15/2013 | Toa Vaca | 15 | A | 1 | 1 | A-1 |
| 8/15/2013 | Toa Vaca | 15 | B | 1 | 1 | B-1 |
| 8/15/2013 | Toa Vaca | 15 | B | 1 | 5 | B-5 |
| 8/15/2013 | Toa Vaca | 15 | B | 1 | 10 | B-10 |
| 8/15/2013 | Toa Vaca | 15 | B | 1 | 15 | B-15 |
| 8/15/2013 | Toa Vaca | 15 | C | 1 | 1 | C-1 |
| 8/15/2013 | Toa Vaca | 15 | C | 2 | 1 | C-1 Duplicado |
| 9/12/2013 | Toa Vaca | 16 | Trip Blank | 0 | N/a | Trip Blank |
| 9/12/2013 | Toa Vaca | 16 | A | 1 | 1 | A-1 |
| 9/12/2013 | Toa Vaca | 16 | B | 1 | 1 | B-1 |
| 9/12/2013 | Toa Vaca | 16 | B | 1 | 5 | B-5 |
| 9/12/2013 | Toa Vaca | 16 | B | 1 | 10 | B-10 |
| 9/12/2013 | Toa Vaca | 16 | B | 1 | 15 | B-15 |
| 9/12/2013 | Toa Vaca | 16 | C | 1 | 1 | C-1 |
| 9/12/2013 | Toa Vaca | 16 | C | 2 | 1 | C-1 Duplicado |
| 10/2/2013 | Toa Vaca | 17 | Trip Blank | 0 | N/a | Trip Blank |
| 10/2/2013 | Toa Vaca | 17 | A | 1 | 1 | A-1 |
| 10/2/2013 | Toa Vaca | 17 | B | 1 | 1 | B-1 |
| 10/2/2013 | Toa Vaca | 17 | B | 1 | 5 | B-5 |
| 10/2/2013 | Toa Vaca | 17 | B | 1 | 10 | B-10 |
| 10/2/2013 | Toa Vaca | 17 | B | 1 | 15 | B-15 |
| 10/2/2013 | Toa Vaca | 17 | C | 1 | 1 | C-1 |
| 10/2/2013 | Toa Vaca | 17 | C | 2 | 1 | C-1 Duplicado |
| 10/24/2013 | Toa Vaca | 18 | Trip Blank | 0 | N/a | Trip Blank |
| 10/24/2013 | Toa Vaca | 18 | A | 1 | 1 | A-1 |
| 10/24/2013 | Toa Vaca | 18 | B | 1 | 1 | B-1 |
| 10/24/2013 | Toa Vaca | 18 | B | 1 | 5 | B-5 |
| 10/24/2013 | Toa Vaca | 18 | B | 1 | 10 | B-10 |
| 10/24/2013 | Toa Vaca | 18 | B | 1 | 15 | B-15 |
| 10/24/2013 | Toa Vaca | 18 | C | 1 | 1 | C-1 |
| 10/24/2013 | Toa Vaca | 18 | C | 2 | 1 | C-1 Duplicado |
| 2/13/2014 | Toa Vaca | 19 | Trip Blank | 0 | N/a | Trip Blank |
| 2/13/2014 | Toa Vaca | 19 | A | 1 | 1 | A-1 |
| 2/13/2014 | Toa Vaca | 19 | B | 1 | 1 | B-1 |
| 2/13/2014 | Toa Vaca | 19 | B | 1 | 5 | B-5 |
| 2/13/2014 | Toa Vaca | 19 | B | 1 | 10 | B-10 |
| 2/13/2014 | Toa Vaca | 19 | B | 1 | 15 | B-15 |
| 2/13/2014 | Toa Vaca | 19 | C | 1 | 1 | C-1 |
| 2/13/2014 | Toa Vaca | 19 | C | 2 | 1 | C-1 Duplicado |

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|---|---|---|---|---|---|---|
| 3/6/2014 | Toa Vaca | 20 | Trip Blank | 0 | N/a | Trip Blank |
| 3/6/2014 | Toa Vaca | 20 | A | 1 | 1 | A-1 |
| 3/6/2014 | Toa Vaca | 20 | B | 1 | 1 | B-1 |
| 3/6/2014 | Toa Vaca | 20 | B | 1 | 5 | B-5 |
| 3/6/2014 | Toa Vaca | 20 | B | 1 | 10 | B-10 |
| 3/6/2014 | Toa Vaca | 20 | B | 1 | 15 | B-15 |
| 3/6/2014 | Toa Vaca | 20 | C | 1 | 1 | C-1 |
| 3/6/2014 | Toa Vaca | 20 | C | 2 | 1 | C-1 Duplicado |
| 4/3/2014 | Toa Vaca | 21 | Trip Blank | 0 | N/a | Trip Blank |
| 4/3/2014 | Toa Vaca | 21 | A | 1 | 1 | A-1 |
| 4/3/2014 | Toa Vaca | 21 | B | 1 | 1 | B-1 |
| 4/3/2014 | Toa Vaca | 21 | B | 1 | 5 | B-5 |
| 4/3/2014 | Toa Vaca | 21 | B | 1 | 10 | B-10 |
| 4/3/2014 | Toa Vaca | 21 | B | 1 | 15 | B-15 |
| 4/3/2014 | Toa Vaca | 21 | C | 1 | 1 | C-1 |
| 4/3/2014 | Toa Vaca | 21 | C | 2 | 1 | C-1 Duplicado |
| 4/24/2014 | Toa Vaca | 22 | Trip Blank | 0 | N/a | Trip Blank |
| 4/24/2014 | Toa Vaca | 22 | A | 1 | 1 | A-1 |
| 4/24/2014 | Toa Vaca | 22 | B | 1 | 1 | B-1 |
| 4/24/2014 | Toa Vaca | 22 | B | 1 | 5 | B-5 |
| 4/24/2014 | Toa Vaca | 22 | B | 1 | 10 | B-10 |
| 4/24/2014 | Toa Vaca | 22 | B | 1 | 13 | B-13 |
| 4/24/2014 | Toa Vaca | 22 | C | 1 | 1 | C-1 |
| 4/24/2014 | Toa Vaca | 22 | C | 2 | 1 | C-1 Duplicado |
| 2/22/2012 | Cerrillos | 1 | Trip Blank | 0 | N/A | Trip Blank |
| 2/22/2012 | Cerrillos | 1 | A | 1 | 1 | A-1 |
| 2/22/2012 | Cerrillos | 1 | B | 1 | 1 | B-1 |
| 2/22/2012 | Cerrillos | 1 | B | 1 | 5 | B-5 |
| 2/22/2012 | Cerrillos | 1 | B | 1 | 10 | B-10 |
| 2/22/2012 | Cerrillos | 1 | B | 1 | 15 | B-15 |
| 2/22/2012 | Cerrillos | 1 | C | 1 | 1 | C-1 |
| 2/22/2012 | Cerrillos | 1 | C | 2 | 1 | C-1-D |
| 3/19/2012 | Cerrillos | 2 | Trip Blank | 0 | N/A | Trip Blank |
| 3/19/2012 | Cerrillos | 2 | A | 1 | 1 | A-1 |
| 3/19/2012 | Cerrillos | 2 | B | 1 | 1 | B-1 |
| 3/19/2012 | Cerrillos | 2 | B | 1 | 5 | B-5 |
| 3/19/2012 | Cerrillos | 2 | B | 1 | 10 | B-10 |
| 3/19/2012 | Cerrillos | 2 | B | 1 | 15 | B-15 |
| 3/19/2012 | Cerrillos | 2 | C | 1 | 1 | C-1 |

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|---|---|---|---|---|---|---|
| 3/19/2012 | Cerrillos | 2 | C | 2 | 1 | C-1-D |
| 4/2/2012 | Cerrillos | 3 | Trip Blank | 0 | N/A | Trip Blank |
| 4/2/2012 | Cerrillos | 3 | A | 1 | 1 | A1 |
| 4/2/2012 | Cerrillos | 3 | B | 1 | 1 | B1 |
| 4/2/2012 | Cerrillos | 3 | B | 1 | 5 | B5 |
| 4/2/2012 | Cerrillos | 3 | B | 1 | 10 | B10 |
| 4/2/2012 | Cerrillos | 3 | B | 1 | 15 | B15 |
| 4/2/2012 | Cerrillos | 3 | C | 1 | 1 | C1 |
| 4/2/2012 | Cerrillos | 3 | C | 2 | 1 | C1 Duplicado |
| 4/24/2012 | Cerrillos | 4 | Trip Blank | 0 | N/A | Trip Blank |
| 4/24/2012 | Cerrillos | 4 | A | 1 | 1 | A1 |
| 4/24/2012 | Cerrillos | 4 | B | 1 | 1 | B1 |
| 4/24/2012 | Cerrillos | 4 | B | 1 | 5 | B5 |
| 4/24/2012 | Cerrillos | 4 | B | 1 | 10 | B10 |
| 4/24/2012 | Cerrillos | 4 | B | 1 | 15 | B15 |
| 4/24/2012 | Cerrillos | 4 | C | 1 | 1 | C1 |
| 4/24/2012 | Cerrillos | 4 | C | 2 | 1 | C1 Duplicado |
| 5/15/2012 | Cerrillos | 5 | Trip Blank | 0 | N/A | Trip Blank |
| 5/15/2012 | Cerrillos | 5 | A | 1 | 1 | A1 |
| 5/15/2012 | Cerrillos | 5 | B | 1 | 1 | B1 |
| 5/15/2012 | Cerrillos | 5 | B | 1 | 5 | B5 |
| 5/15/2012 | Cerrillos | 5 | B | 1 | 10 | B10 |
| 5/15/2012 | Cerrillos | 5 | B | 1 | 15 | B15 |
| 5/15/2012 | Cerrillos | 5 | C | 1 | 1 | C1 |
| 5/15/2012 | Cerrillos | 5 | C | 2 | 1 | C1 Duplicado |
| 6/26/2012 | Cerrillos | 6 | Trip Blank | 0 | N/A | Trip Blank |
| 6/26/2012 | Cerrillos | 6 | A | 1 | 1 | A1 |
| 6/26/2012 | Cerrillos | 6 | B | 1 | 1 | B1 |
| 6/26/2012 | Cerrillos | 6 | B | 1 | 5 | B5 |
| 6/26/2012 | Cerrillos | 6 | B | 1 | 10 | B10 |
| 6/26/2012 | Cerrillos | 6 | B | 1 | 15 | B15 |
| 6/26/2012 | Cerrillos | 6 | C | 1 | 1 | C1 |
| 6/26/2012 | Cerrillos | 6 | C | 2 | 1 | C1 Duplicado |
| 7/2/2012 | Cerrillos | 7 | Trip Blank | 0 | N/A | Trip Blank |
| 7/2/2012 | Cerrillos | 7 | A | 1 | 1 | A1 |
| 7/2/2012 | Cerrillos | 7 | B | 1 | 1 | B1 |
| 7/2/2012 | Cerrillos | 7 | B | 1 | 5 | B5 |
| 7/2/2012 | Cerrillos | 7 | B | 1 | 10 | B10 |
| 7/2/2012 | Cerrillos | 7 | B | 1 | 15 | B15 |

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|---|---|---|---|---|---|---|
| 7/2/2012 | Cerrillos | 7 | C | 1 | 1 | C1 |
| 7/2/2012 | Cerrillos | 7 | C | 2 | 1 | C1 Duplicado |
| 8/30/2012 | Cerrillos | 8 | Trip Blank | 0 | N/A | Trip Blank |
| 8/30/2012 | Cerrillos | 8 | A | 1 | 1 | A1 |
| 8/30/2012 | Cerrillos | 8 | B | 1 | 1 | B1 |
| 8/30/2012 | Cerrillos | 8 | B | 1 | 5 | B5 |
| 8/30/2012 | Cerrillos | 8 | B | 1 | 10 | B10 |
| 8/30/2012 | Cerrillos | 8 | B | 1 | 15 | B15 |
| 8/30/2012 | Cerrillos | 8 | C | 1 | 1 | C1 |
| 8/30/2012 | Cerrillos | 8 | C | 2 | 1 | C1 Duplicado |
| 10/11/2012 | Cerrillos | 9 | Trip Blank | 0 | N/A | Trip Blank |
| 10/11/2012 | Cerrillos | 9 | A | 1 | 1 | A1 |
| 10/11/2012 | Cerrillos | 9 | B | 1 | 1 | B1 |
| 10/11/2012 | Cerrillos | 9 | B | 1 | 5 | B5 |
| 10/11/2012 | Cerrillos | 9 | B | 1 | 10 | B10 |
| 10/11/2012 | Cerrillos | 9 | B | 1 | 15 | B15 |
| 10/11/2012 | Cerrillos | 9 | C | 1 | 1 | C1 |
| 10/11/2012 | Cerrillos | 9 | C | 2 | 1 | C1 Duplicado |
| 11/1/2012 | Cerrillos | 10 | Trip Blank | 0 | N/A | Trip Blank |
| 11/1/2012 | Cerrillos | 10 | A | 1 | 1 | A1 |
| 11/1/2012 | Cerrillos | 10 | B | 1 | 1 | B1 |
| 11/1/2012 | Cerrillos | 10 | B | 1 | 5 | B5 |
| 11/1/2012 | Cerrillos | 10 | B | 1 | 10 | B10 |
| 11/1/2012 | Cerrillos | 10 | B | 1 | 15 | B15 |
| 11/1/2012 | Cerrillos | 10 | C | 1 | 1 | C1 |
| 11/1/2012 | Cerrillos | 10 | C | 2 | 1 | C1 Duplicado |
| 11/27/2012 | Cerrillos | 11 | Trip Blank | 0 | N/A | Trip Blank |
| 11/27/2012 | Cerrillos | 11 | A | 1 | 1 | A1 |
| 11/27/2012 | Cerrillos | 11 | B | 1 | 1 | B1 |
| 11/27/2012 | Cerrillos | 11 | B | 1 | 5 | B5 |
| 11/27/2012 | Cerrillos | 11 | B | 1 | 10 | B10 |
| 11/27/2012 | Cerrillos | 11 | B | 1 | 15 | B15 |
| 11/27/2012 | Cerrillos | 11 | C | 1 | 1 | C1 |
| 11/27/2012 | Cerrillos | 11 | C | 2 | 1 | C1 Duplicado |
| 1/17/2013 | Cerrillos | 12 | Trip Blank | 0 | N/A | Trip Blank |
| 1/17/2013 | Cerrillos | 12 | A | 1 | 1 | A1 |
| 1/17/2013 | Cerrillos | 12 | B | 1 | 1 | B1 |
| 1/17/2013 | Cerrillos | 12 | B | 1 | 5 | B5 |
| 1/17/2013 | Cerrillos | 12 | B | 1 | 10 | B10 |

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|---|---|---|---|---|---|---|
| 1/17/2013 | Cerrillos | 12 | B | 1 | 15 | B15 |
| 1/17/2013 | Cerrillos | 12 | C | 1 | 1 | C1 |
| 1/17/2013 | Cerrillos | 12 | C | 2 | 1 | C1 Duplicado |
| 2/5/2013 | Cerrillos | 13 | Trip Blank | 0 | N/A | Trip Blank |
| 2/5/2013 | Cerrillos | 13 | A | 1 | 1 | A1 |
| 2/5/2013 | Cerrillos | 13 | B | 1 | 1 | B1 |
| 2/5/2013 | Cerrillos | 13 | B | 1 | 5 | B5 |
| 2/5/2013 | Cerrillos | 13 | B | 1 | 10 | B10 |
| 2/5/2013 | Cerrillos | 13 | B | 1 | 15 | B15 |
| 2/5/2013 | Cerrillos | 13 | C | 1 | 1 | C1 |
| 2/5/2013 | Cerrillos | 13 | C | 2 | 1 | C1 Duplicado |
| 2/26/2013 | Cerrillos | 14 | Trip Blank | 0 | N/A | Trip Blank |
| 2/26/2013 | Cerrillos | 14 | A | 1 | 1 | A1 |
| 2/26/2013 | Cerrillos | 14 | B | 1 | 1 | B1 |
| 2/26/2013 | Cerrillos | 14 | B | 1 | 5 | B5 |
| 2/26/2013 | Cerrillos | 14 | B | 1 | 10 | B10 |
| 2/26/2013 | Cerrillos | 14 | B | 1 | 15 | B15 |
| 2/26/2013 | Cerrillos | 14 | C | 1 | 1 | C1 |
| 2/26/2013 | Cerrillos | 14 | C | 2 | 1 | C1 Duplicado |
| 3/19/2013 | Cerrillos | 15 | Trip Blank | 0 | N/A | Trip Blank |
| 3/19/2013 | Cerrillos | 15 | A | 1 | 1 | A1 |
| 3/19/2013 | Cerrillos | 15 | B | 1 | 1 | B1 |
| 3/19/2013 | Cerrillos | 15 | B | 1 | 5 | B5 |
| 3/19/2013 | Cerrillos | 15 | B | 1 | 10 | B10 |
| 3/19/2013 | Cerrillos | 15 | B | 1 | 15 | B15 |
| 3/19/2013 | Cerrillos | 15 | C | 1 | 1 | C1 |
| 3/19/2013 | Cerrillos | 15 | C | 2 | 1 | C1 Duplicado |
| 5/15/2013 | Cerrillos | 16 | Trip Blank | 0 | N/A | Trip Blank |
| 5/15/2013 | Cerrillos | 16 | A | 1 | 1 | A1 |
| 5/15/2013 | Cerrillos | 16 | B | 1 | 1 | B1 |
| 5/15/2013 | Cerrillos | 16 | B | 1 | 5 | B5 |
| 5/15/2013 | Cerrillos | 16 | B | 1 | 10 | B10 |
| 5/15/2013 | Cerrillos | 16 | B | 1 | 15 | B15 |
| 5/15/2013 | Cerrillos | 16 | C | 1 | 1 | C1 |
| 5/15/2013 | Cerrillos | 16 | C | 2 | 1 | C1 Duplicado |
| 6/13/2013 | Cerrillos | 17 | Trip Blank | 0 | N/A | Trip Blank |
| 6/13/2013 | Cerrillos | 17 | A | 1 | 1 | A1 |
| 6/13/2013 | Cerrillos | 17 | B | 1 | 1 | B1 |
| 6/13/2013 | Cerrillos | 17 | B | 1 | 5 | B5 |

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|---|---|---|---|---|---|---|
| 6/13/2013 | Cerrillos | 17 | B | 1 | 10 | B10 |
| 6/13/2013 | Cerrillos | 17 | B | 1 | 15 | B15 |
| 6/13/2013 | Cerrillos | 17 | C | 1 | 1 | C1 |
| 6/13/2013 | Cerrillos | 17 | C | 2 | 1 | C1 Duplicado |
| 6/28/2013 | Cerrillos | 18 | Trip Blank | 0 | N/A | Trip Blank |
| 6/28/2013 | Cerrillos | 18 | A | 1 | 1 | A1 |
| 6/28/2013 | Cerrillos | 18 | B | 1 | 1 | B1 |
| 6/28/2013 | Cerrillos | 18 | B | 1 | 5 | B5 |
| 6/28/2013 | Cerrillos | 18 | B | 1 | 10 | B10 |
| 6/28/2013 | Cerrillos | 18 | B | 1 | 15 | B15 |
| 6/28/2013 | Cerrillos | 18 | C | 1 | 1 | C1 |
| 6/28/2013 | Cerrillos | 18 | C | 2 | 1 | C1 Duplicado |
| 8/29/2013 | Cerrillos | 19 | Trip Blank | 0 | N/A | Trip Blank |
| 8/29/2013 | Cerrillos | 19 | A | 1 | 1 | A1 |
| 8/29/2013 | Cerrillos | 19 | B | 1 | 1 | B1 |
| 8/29/2013 | Cerrillos | 19 | B | 1 | 5 | B5 |
| 8/29/2013 | Cerrillos | 19 | B | 1 | 10 | B10 |
| 8/29/2013 | Cerrillos | 19 | B | 1 | 15 | B15 |
| 8/29/2013 | Cerrillos | 19 | C | 1 | 1 | C1 |
| 8/29/2013 | Cerrillos | 19 | C | 2 | 1 | C1 Duplicado |
| 9/26/2013 | Cerrillos | 20 | Trip Blank | 0 | N/A | Trip Blank |
| 9/26/2013 | Cerrillos | 20 | A | 1 | 1 | A1 |
| 9/26/2013 | Cerrillos | 20 | B | 1 | 1 | B1 |
| 9/26/2013 | Cerrillos | 20 | B | 1 | 5 | B5 |
| 9/26/2013 | Cerrillos | 20 | B | 1 | 10 | B10 |
| 9/26/2013 | Cerrillos | 20 | B | 1 | 15 | B15 |
| 9/26/2013 | Cerrillos | 20 | C | 1 | 1 | C1 |
| 9/26/2013 | Cerrillos | 20 | C | 2 | 1 | C1 Duplicado |
| 10/16/2013 | Cerrillos | 21 | Trip Blank | 0 | N/A | Trip Blank |
| 10/16/2013 | Cerrillos | 21 | A | 1 | 1 | A1 |
| 10/16/2013 | Cerrillos | 21 | B | 1 | 1 | B1 |
| 10/16/2013 | Cerrillos | 21 | B | 1 | 5 | B5 |
| 10/16/2013 | Cerrillos | 21 | B | 1 | 10 | B10 |
| 10/16/2013 | Cerrillos | 21 | B | 1 | 15 | B15 |
| 10/16/2013 | Cerrillos | 21 | C | 1 | 1 | C1 |
| 10/16/2013 | Cerrillos | 21 | C | 2 | 1 | C1 Duplicado |
| 2/4/2014 | Cerrillos | 22 | Trip Blank | 0 | N/A | Trip Blank |
| 2/4/2014 | Cerrillos | 22 | A | 1 | 1 | A1 |
| 2/4/2014 | Cerrillos | 22 | B | 1 | 1 | B1 |

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|---|---|---|---|---|---|---|
| 2/4/2014 | Cerrillos | 22 | B | 1 | 5 | B5 |
| 2/4/2014 | Cerrillos | 22 | B | 1 | 10 | B10 |
| 2/4/2014 | Cerrillos | 22 | B | 1 | 15 | B15 |
| 2/4/2014 | Cerrillos | 22 | C | 1 | 1 | C1 |
| 2/4/2014 | Cerrillos | 22 | C | 2 | 1 | C1 Duplicado |
| 2/25/2014 | Cerrillos | 23 | Trip Blank | 0 | N/A | Trip Blank |
| 2/25/2014 | Cerrillos | 23 | A | 1 | 1 | A1 |
| 2/25/2014 | Cerrillos | 23 | B | 1 | 1 | B1 |
| 2/25/2014 | Cerrillos | 23 | B | 1 | 5 | B5 |
| 2/25/2014 | Cerrillos | 23 | B | 1 | 10 | B10 |
| 2/25/2014 | Cerrillos | 23 | B | 1 | 15 | B15 |
| 2/25/2014 | Cerrillos | 23 | C | 1 | 1 | C1 |
| 2/25/2014 | Cerrillos | 23 | C | 2 | 1 | C1 Duplicado |
| 3/27/2014 | Cerrillos | 24 | Trip Blank | 0 | N/A | Trip Blank |
| 3/27/2014 | Cerrillos | 24 | A | 1 | 1 | A1 |
| 3/27/2014 | Cerrillos | 24 | B | 1 | 1 | B1 |
| 3/27/2014 | Cerrillos | 24 | B | 1 | 5 | B5 |
| 3/27/2014 | Cerrillos | 24 | B | 1 | 10 | B10 |
| 3/27/2014 | Cerrillos | 24 | B | 1 | 15 | B15 |
| 3/27/2014 | Cerrillos | 24 | C | 1 | 1 | C1 |
| 3/27/2014 | Cerrillos | 24 | C | 2 | 1 | C1 Duplicado |
| 4/22/2014 | Cerrillos | 25 | Trip Blank | 0 | N/A | Trip Blank |
| 4/22/2014 | Cerrillos | 25 | A | 1 | 1 | A1 |
| 4/22/2014 | Cerrillos | 25 | B | 1 | 1 | B1 |
| 4/22/2014 | Cerrillos | 25 | B | 1 | 5 | B5 |
| 4/22/2014 | Cerrillos | 25 | B | 1 | 10 | B10 |
| 4/22/2014 | Cerrillos | 25 | B | 1 | 15 | B15 |
| 4/22/2014 | Cerrillos | 25 | C | 1 | 1 | C1 |
| 4/22/2014 | Cerrillos | 25 | C | 2 | 1 | C1 Duplicado |
| 3/6/2012 | Guajataca | 1 | Trip Blank | 0 | N/A | Trip Blank |
| 3/6/2012 | Guajataca | 1 | A | 1 | 1 | A-1 |
| 3/6/2012 | Guajataca | 1 | B | 1 | 1 | B-1 |
| 3/6/2012 | Guajataca | 1 | B | 1 | 5 | B-5 |
| 3/6/2012 | Guajataca | 1 | B | 1 | 10 | B-10 |
| 3/6/2012 | Guajataca | 1 | B | 1 | 15 | B-15 |
| 3/6/2012 | Guajataca | 1 | C | 1 | 1 | C-1 |
| 3/6/2012 | Guajataca | 1 | C | 2 | 1 | C-1-D |
| 3/27/2012 | Guajataca | 2 | Trip Blank | 0 | N/A | Trip Blank |
| 3/27/2012 | Guajataca | 2 | A | 1 | 1 | A-1 |

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|---|---|---|---|---|---|---|
| 3/27/2012 | Guajataca | 2 | B | 1 | 1 | B-1 |
| 3/27/2012 | Guajataca | 2 | B | 1 | 5 | B-5 |
| 3/27/2012 | Guajataca | 2 | B | 1 | 10 | B-10 |
| 3/27/2012 | Guajataca | 2 | B | 1 | 15 | B-15 |
| 3/27/2012 | Guajataca | 2 | C | 1 | 1 | C-1 |
| 3/27/2012 | Guajataca | 2 | C | 2 | 1 | C-1 Duplicado |
| 4/19/2012 | Guajataca | 3 | Trip Blank | 0 | N/A | Trip Blank |
| 4/19/2012 | Guajataca | 3 | A | 1 | 1 | A-1 |
| 4/19/2012 | Guajataca | 3 | B | 1 | 1 | B-1 |
| 4/19/2012 | Guajataca | 3 | B | 1 | 5 | B-5 |
| 4/19/2012 | Guajataca | 3 | B | 1 | 10 | B-10 |
| 4/19/2012 | Guajataca | 3 | B | 1 | 15 | B-15 |
| 4/19/2012 | Guajataca | 3 | C | 1 | 1 | C-1 |
| 4/19/2012 | Guajataca | 3 | C | 2 | 1 | C-1 Duplicado |
| 5/8/2012 | Guajataca | 4 | Trip Blank | 0 | N/A | Trip Blank |
| 5/8/2012 | Guajataca | 4 | A | 1 | 1 | A-1 |
| 5/8/2012 | Guajataca | 4 | B | 1 | 1 | B-1 |
| 5/8/2012 | Guajataca | 4 | B | 1 | 5 | B-5 |
| 5/8/2012 | Guajataca | 4 | B | 1 | 10 | B-10 |
| 5/8/2012 | Guajataca | 4 | B | 1 | 15 | B-15 |
| 5/8/2012 | Guajataca | 4 | C | 1 | 1 | C-1 |
| 5/8/2012 | Guajataca | 4 | C | 2 | 1 | C-1 Duplicado |
| 5/29/2012 | Guajataca | 5 | Trip Blank | 0 | N/A | Trip Blank |
| 5/29/2012 | Guajataca | 5 | A | 1 | 1 | A-1 |
| 5/29/2012 | Guajataca | 5 | B | 1 | 1 | B-1 |
| 5/29/2012 | Guajataca | 5 | B | 1 | 5 | B-5 |
| 5/29/2012 | Guajataca | 5 | B | 1 | 10 | B-10 |
| 5/29/2012 | Guajataca | 5 | B | 1 | 15 | B-15 |
| 5/29/2012 | Guajataca | 5 | C | 1 | 1 | C-1 |
| 5/29/2012 | Guajataca | 5 | C | 2 | 1 | C-1 Duplicado |
| 6/12/2012 | Guajataca | 6 | Trip Blank | 0 | N/A | Trip Blank |
| 6/12/2012 | Guajataca | 6 | A | 1 | 1 | A-1 |
| 6/12/2012 | Guajataca | 6 | B | 1 | 1 | B-1 |
| 6/12/2012 | Guajataca | 6 | B | 1 | 5 | B-5 |
| 6/12/2012 | Guajataca | 6 | B | 1 | 10 | B-10 |
| 6/12/2012 | Guajataca | 6 | B | 1 | 15 | B-15 |
| 6/12/2012 | Guajataca | 6 | C | 1 | 1 | C-1 |
| 6/12/2012 | Guajataca | 6 | C | 2 | 1 | C-1 Duplicado |
| 7/10/2012 | Guajataca | 7 | Trip Blank | 0 | N/A | Trip Blank |

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|---|---|---|---|---|---|---|
| 7/10/2012 | Guajataca | 7 | A | 1 | 1 | A-1 |
| 7/10/2012 | Guajataca | 7 | B | 1 | 1 | B-1 |
| 7/10/2012 | Guajataca | 7 | B | 1 | 5 | B-5 |
| 7/10/2012 | Guajataca | 7 | B | 1 | 10 | B-10 |
| 7/10/2012 | Guajataca | 7 | B | 1 | 15 | B-15 |
| 7/10/2012 | Guajataca | 7 | C | 1 | 1 | C-1 |
| 7/10/2012 | Guajataca | 7 | C | 2 | 1 | C-1 Duplicado |
| 8/15/2012 | Guajataca | 8 | Trip Blank | 0 | N/A | Trip Blank |
| 8/15/2012 | Guajataca | 8 | A | 1 | 1 | A-1 |
| 8/15/2012 | Guajataca | 8 | B | 1 | 1 | B-1 |
| 8/15/2012 | Guajataca | 8 | B | 1 | 5 | B-5 |
| 8/15/2012 | Guajataca | 8 | B | 1 | 10 | B-10 |
| 8/15/2012 | Guajataca | 8 | B | 1 | 15 | B-15 |
| 8/15/2012 | Guajataca | 8 | C | 1 | 1 | C-1 |
| 8/15/2012 | Guajataca | 8 | C | 2 | 1 | C-1 Duplicado |
| 10/2/2012 | Guajataca | 9 | Trip Blank | 0 | N/A | Trip Blank |
| 10/2/2012 | Guajataca | 9 | A | 1 | 1 | A-1 |
| 10/2/2012 | Guajataca | 9 | B | 1 | 1 | B-1 |
| 10/2/2012 | Guajataca | 9 | B | 1 | 5 | B-5 |
| 10/2/2012 | Guajataca | 9 | B | 1 | 10 | B-10 |
| 10/2/2012 | Guajataca | 9 | B | 1 | 15 | B-15 |
| 10/2/2012 | Guajataca | 9 | C | 1 | 1 | C-1 |
| 10/2/2012 | Guajataca | 9 | C | 2 | 1 | C-1 Duplicado |
| 10/30/2012 | Guajataca | 10 | Trip Blank | 0 | N/A | Trip Blank |
| 10/30/2012 | Guajataca | 10 | A | 1 | 1 | A-1 |
| 10/30/2012 | Guajataca | 10 | B | 1 | 1 | B-1 |
| 10/30/2012 | Guajataca | 10 | B | 1 | 5 | B-5 |
| 10/30/2012 | Guajataca | 10 | B | 1 | 10 | B-10 |
| 10/30/2012 | Guajataca | 10 | B | 1 | 15 | B-15 |
| 10/30/2012 | Guajataca | 10 | C | 1 | 1 | C-1 |
| 10/30/2012 | Guajataca | 10 | C | 2 | 1 | C-1 Duplicado |
| 11/20/2012 | Guajataca | 11 | Trip Blank | 0 | N/A | Trip Blank |
| 11/20/2012 | Guajataca | 11 | A | 1 | 1 | A-1 |
| 11/20/2012 | Guajataca | 11 | B | 1 | 1 | B-1 |
| 11/20/2012 | Guajataca | 11 | B | 1 | 5 | B-5 |
| 11/20/2012 | Guajataca | 11 | B | 1 | 10 | B-10 |
| 11/20/2012 | Guajataca | 11 | B | 1 | 15 | B-15 |
| 11/20/2012 | Guajataca | 11 | C | 1 | 1 | C-1 |
| 11/20/2012 | Guajataca | 11 | C | 2 | 1 | C-1 Duplicado |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2/1/2013 | Guajataca | 12 | Trip Blank | 0 | N/A | Trip Blank |
| 2/1/2013 | Guajataca | 12 | A | 1 | 1 | A-1 |
| 2/1/2013 | Guajataca | 12 | B | 1 | 1 | B-1 |
| 2/1/2013 | Guajataca | 12 | B | 1 | 5 | B-5 |
| 2/1/2013 | Guajataca | 12 | B | 1 | 10 | B-10 |
| 2/1/2013 | Guajataca | 12 | B | 1 | 15 | B-15 |
| 2/1/2013 | Guajataca | 12 | C | 1 | 1 | C-1 |
| 2/1/2013 | Guajataca | 12 | C | 2 | 1 | C-1 Duplicado |
| 2/21/2013 | Guajataca | 13 | Trip Blank | 0 | N/A | Trip Blank |
| 2/21/2013 | Guajataca | 13 | A | 1 | 1 | A-1 |
| 2/21/2013 | Guajataca | 13 | B | 1 | 1 | B-1 |
| 2/21/2013 | Guajataca | 13 | B | 1 | 5 | B-5 |
| 2/21/2013 | Guajataca | 13 | B | 1 | 10 | B-10 |
| 2/21/2013 | Guajataca | 13 | B | 1 | 15 | B-15 |
| 2/21/2013 | Guajataca | 13 | C | 1 | 1 | C-1 |
| 2/21/2013 | Guajataca | 13 | C | 2 | 1 | C-1 Duplicado |
| 3/5/2013 | Guajataca | 14 | Trip Blank | 0 | N/A | Trip Blank |
| 3/5/2013 | Guajataca | 14 | A | 1 | 1 | A-1 |
| 3/5/2013 | Guajataca | 14 | B | 1 | 1 | B-1 |
| 3/5/2013 | Guajataca | 14 | B | 1 | 5 | B-5 |
| 3/5/2013 | Guajataca | 14 | B | 1 | 10 | B-10 |
| 3/5/2013 | Guajataca | 14 | B | 1 | 15 | B-15 |
| 3/5/2013 | Guajataca | 14 | C | 1 | 1 | C-1 |
| 3/5/2013 | Guajataca | 14 | C | 2 | 1 | C-1 Duplicado |
| 4/17/2013 | Guajataca | 15 | Trip Blank | 0 | N/A | Trip Blank |
| 4/17/2013 | Guajataca | 15 | A | 1 | 1 | A-1 |
| 4/17/2013 | Guajataca | 15 | B | 1 | 1 | B-1 |
| 4/17/2013 | Guajataca | 15 | B | 1 | 5 | B-5 |
| 4/17/2013 | Guajataca | 15 | B | 1 | 10 | B-10 |
| 4/17/2013 | Guajataca | 15 | B | 1 | 15 | B-15 |
| 4/17/2013 | Guajataca | 15 | C | 1 | 1 | C-1 |
| 4/17/2013 | Guajataca | 15 | C | 2 | 1 | C-1 Duplicado |
| 5/22/2013 | Guajataca | 16 | Trip Blank | 0 | N/A | Trip Blank |
| 5/22/2013 | Guajataca | 16 | A | 1 | 1 | A-1 |
| 5/22/2013 | Guajataca | 16 | B | 1 | 1 | B-1 |
| 5/22/2013 | Guajataca | 16 | B | 1 | 5 | B-5 |
| 5/22/2013 | Guajataca | 16 | B | 1 | 10 | B-10 |
| 5/22/2013 | Guajataca | 16 | B | 1 | 15 | B-15 |
| 5/22/2013 | Guajataca | 16 | C | 1 | 1 | C-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/22/2013 | Guajataca | 16 | C | 2 | 1 | C-1 Duplicado |
| 6/20/2013 | Guajataca | 17 | Trip Blank | 0 | N/A | Trip Blank |
| 6/20/2013 | Guajataca | 17 | A | 1 | 1 | A-1 |
| 6/20/2013 | Guajataca | 17 | B | 1 | 1 | B-1 |
| 6/20/2013 | Guajataca | 17 | B | 1 | 5 | B-5 |
| 6/20/2013 | Guajataca | 17 | B | 1 | 10 | B-10 |
| 6/20/2013 | Guajataca | 17 | B | 1 | 15 | B-15 |
| 6/20/2013 | Guajataca | 17 | C | 1 | 1 | C-1 |
| 6/20/2013 | Guajataca | 17 | C | 2 | 1 | C-1 Duplicado |
| 7/3/2013 | Guajataca | 18 | Trip Blank | 0 | N/A | Trip Blank |
| 7/3/2013 | Guajataca | 18 | A | 1 | 1 | A-1 |
| 7/3/2013 | Guajataca | 18 | B | 1 | 1 | B-1 |
| 7/3/2013 | Guajataca | 18 | B | 1 | 5 | B-5 |
| 7/3/2013 | Guajataca | 18 | B | 1 | 10 | B-10 |
| 7/3/2013 | Guajataca | 18 | B | 1 | 15 | B-15 |
| 7/3/2013 | Guajataca | 18 | C | 1 | 1 | C-1 |
| 7/3/2013 | Guajataca | 18 | C | 2 | 1 | C-1 Duplicado |
| 8/22/2013 | Guajataca | 19 | Trip Blank | 0 | N/A | Trip Blank |
| 8/22/2013 | Guajataca | 19 | A | 1 | 1 | A-1 |
| 8/22/2013 | Guajataca | 19 | B | 1 | 1 | B-1 |
| 8/22/2013 | Guajataca | 19 | B | 1 | 5 | B-5 |
| 8/22/2013 | Guajataca | 19 | B | 1 | 10 | B-10 |
| 8/22/2013 | Guajataca | 19 | B | 1 | 15 | B-15 |
| 8/22/2013 | Guajataca | 19 | C | 1 | 1 | C-1 |
| 8/22/2013 | Guajataca | 19 | C | 2 | 1 | C-1 Duplicado |
| 9/17/2013 | Guajataca | 20 | Trip Blank | 0 | N/A | Trip Blank |
| 9/17/2013 | Guajataca | 20 | A | 1 | 1 | A-1 |
| 9/17/2013 | Guajataca | 20 | B | 1 | 1 | B-1 |
| 9/17/2013 | Guajataca | 20 | B | 1 | 5 | B-5 |
| 9/17/2013 | Guajataca | 20 | B | 1 | 10 | B-10 |
| 9/17/2013 | Guajataca | 20 | B | 1 | 15 | B-15 |
| 9/17/2013 | Guajataca | 20 | C | 1 | 1 | C-1 |
| 9/17/2013 | Guajataca | 20 | C | 2 | 1 | C-1 Duplicado |
| 1/28/2014 | Guajataca | 21 | Trip Blank | 0 | N/A | Trip Blank |
| 1/28/2014 | Guajataca | 21 | A | 1 | 1 | A-1 |
| 1/28/2014 | Guajataca | 21 | B | 1 | 1 | B-1 |
| 1/28/2014 | Guajataca | 21 | B | 1 | 5 | B-5 |
| 1/28/2014 | Guajataca | 21 | B | 1 | 10 | B-10 |
| 1/28/2014 | Guajataca | 21 | B | 1 | 15 | B-15 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1/28/2014 | Guajataca | 21 | C | 1 | 1 | C-1 |
| 1/28/2014 | Guajataca | 21 | C | 2 | 1 | C-1 Duplicado |
| 2/18/2014 | Guajataca | 22 | Trip Blank | 0 | N/A | Trip Blank |
| 2/18/2014 | Guajataca | 22 | A | 1 | 1 | A-1 |
| 2/18/2014 | Guajataca | 22 | B | 1 | 1 | B-1 |
| 2/18/2014 | Guajataca | 22 | B | 1 | 5 | B-5 |
| 2/18/2014 | Guajataca | 22 | B | 1 | 10 | B-10 |
| 2/18/2014 | Guajataca | 22 | B | 1 | 15 | B-15 |
| 2/18/2014 | Guajataca | 22 | C | 1 | 1 | C-1 |
| 2/18/2014 | Guajataca | 22 | C | 2 | 1 | C-1 Duplicado |
| 3/18/2014 | Guajataca | 23 | Trip Blank | 0 | N/A | Trip Blank |
| 3/18/2014 | Guajataca | 23 | A | 1 | 1 | A-1 |
| 3/18/2014 | Guajataca | 23 | B | 1 | 1 | B-1 |
| 3/18/2014 | Guajataca | 23 | B | 1 | 5 | B-5 |
| 3/18/2014 | Guajataca | 23 | B | 1 | 10 | B-10 |
| 3/18/2014 | Guajataca | 23 | C | 1 | 1 | C-1 |
| 3/18/2014 | Guajataca | 23 | C | 2 | 1 | C-1 Duplicado |
| 4/8/2014 | Guajataca | 24 | Trip Blank | 0 | N/A | Trip Blank |
| 4/8/2014 | Guajataca | 24 | A | 1 | 1 | A-1 |
| 4/8/2014 | Guajataca | 24 | B | 1 | 1 | B-1 |
| 4/8/2014 | Guajataca | 24 | B | 1 | 5 | B-5 |
| 4/8/2014 | Guajataca | 24 | B | 1 | 10 | B-10 |
| 4/8/2014 | Guajataca | 24 | B | 1 | 15 | B-14 |
| 4/8/2014 | Guajataca | 24 | C | 1 | 1 | C-1 |
| 4/8/2014 | Guajataca | 24 | C | 2 | 1 | C-1 Duplicado |
| 5/27/2014 | La Plata | 25 | Trip blank | 0 | N/A | Trip Blank |
| 5/27/2014 | La Plata | 25 | A | 1 | 1 | A1 |
| 5/27/2014 | La Plata | 25 | B | 1 | 1 | B1 |
| 5/27/2014 | La Plata | 25 | B | 1 | 5 | B5 |
| 5/27/2014 | La Plata | 25 | B | 1 | 10 | B10 |
| 5/27/2014 | La Plata | 25 | B | 1 | 15 | B15 |
| 5/27/2014 | La Plata | 25 | C | 1 | 1 | C1 |
| 5/27/2014 | La Plata | 25 | C | 2 | 1 | C1 Duplicado |
| 6/3/2014 | Cidra | 25 | Trip Blank | 0 | N/A | Trip blank |
| 6/3/2014 | Cidra | 25 | A | 1 | 1 | A-1 |
| 6/3/2014 | Cidra | 25 | B | 1 | 1 | B-1 |
| 6/3/2014 | Cidra | 25 | B | 1 | 5 | B-5 |
| 6/3/2014 | Cidra | 25 | B | 1 | 10 | B-10 |
| 6/3/2014 | Cidra | 25 | C | 1 | 1 | C-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6/3/2014 | Cidra | 25 | C | 2 | 1 | C-1-D |
| 6/5/2014 | Patillas | 25 | trip blank | 0 | n/A | Trip Blank |
| 6/5/2014 | Patillas | 25 | A | 1 | 1 | A1 |
| 6/5/2014 | Patillas | 25 | B | 1 | 1 | B1 |
| 6/5/2014 | Patillas | 25 | B | 1 | 5 | B5 |
| 6/5/2014 | Patillas | 25 | B | 1 | 10 | B10 |
| 6/5/2014 | Patillas | 25 | B | 1 | 15 | B15 |
| 6/5/2014 | Patillas | 25 | C | 1 | 1 | C1 |
| 6/5/2014 | Patillas | 25 | C | 2 | 1 | C1 Duplicado |
| 5/22/2014 | Toa Vaca | 23 | Trip Blank | 0 | N/a | Trip Blank |
| 5/22/2014 | Toa Vaca | 23 | A | 1 | 1 | A-1 |
| 5/22/2014 | Toa Vaca | 23 | B | 1 | 1 | B-1 |
| 5/22/2014 | Toa Vaca | 23 | B | 1 | 5 | B-5 |
| 5/22/2014 | Toa Vaca | 23 | B | 1 | 10 | B-10 |
| 5/22/2014 | Toa Vaca | 23 | B | 1 | 14 | B-14 |
| 5/22/2014 | Toa Vaca | 23 | C | 1 | 1 | C-1 |
| 5/22/2014 | Toa Vaca | 23 | C | 2 | 1 | C-1 Duplicado |
| 6/26/2014 | Toa Vaca | 24 | Trip Blank | 0 | N/a | Trip Blank |
| 6/26/2014 | Toa Vaca | 24 | A | 1 | 1 | A-1 |
| 6/26/2014 | Toa Vaca | 24 | B | 1 | 1 | B-1 |
| 6/26/2014 | Toa Vaca | 24 | B | 1 | 5 | B-5 |
| 6/26/2014 | Toa Vaca | 24 | B | 1 | 10 | B-10 |
| 6/26/2014 | Toa Vaca | 24 | B | 1 | 14 | B-14 |
| 6/26/2014 | Toa Vaca | 24 | C | 1 | 1 | C-1 |
| 6/26/2014 | Toa Vaca | 24 | C | 2 | 1 | C-1 Duplicado |
| 5/29/2014 | Guajataca | 25 | Trip Blank | 0 | N/A | Trip Blank |
| 5/29/2014 | Guajataca | 25 | A | 1 | 1 | A-1 |
| 5/29/2014 | Guajataca | 25 | B | 1 | 1 | B-1 |
| 5/29/2014 | Guajataca | 25 | B | 1 | 5 | B-5 |
| 5/29/2014 | Guajataca | 25 | B | 1 | 10 | B-10 |
| 5/29/2014 | Guajataca | 25 | B | 1 | 13 | B-14 |
| 5/29/2014 | Guajataca | 25 | C | 1 | 1 | C-1 |
| 5/29/2014 | Guajataca | 25 | C | 2 | 1 | C-1 Duplicado |

| TKN-N (mg/L) | NO3-N (mg/L) | TN (mg/L) | TN/TP | TP(mg/L) | Chl a (ug/L) | temp(ºC) |
|---|---|---|---|---|---|---|
| 0.029 | 0.000 | . | . | 0.000 | . | . |
| 0.452 | 0.005 | 0.456 | 16.954 | 0.027 | 9.23 | 26.44 |
| 0.461 | 0.016 | 0.477 | 16.727 | 0.029 | 7.24 | 26.51 |
| 0.313 | . | 0.313 | 18.649 | 0.017 | . | 24.77 |
| 0.382 | | 0.382 | 7.168 | 0.053 | . | 24.04 |
| 0.459 | . | 0.459 | 5.914 | 0.078 | . | 23.93 |
| 0.440 | 0.006 | 0.445 | 14.169 | 0.031 | 9.41 | 26.65 |
| 0.480 | 0.005 | 0.484 | 15.373 | 0.032 | 9.54 | 26.65 |
| 0.045 | 0.000 | . | . | 0.000 | . | . |
| 0.431 | 0.004 | 0.435 | 10.310 | 0.042 | 22.34 | 25.69 |
| 0.424 | 0.000 | 0.424 | 9.818 | 0.043 | 19.57 | 25.72 |
| 0.365 | . | 0.365 | 6.638 | 0.055 | . | 24.59 |
| 0.551 | . | 0.551 | 5.254 | 0.105 | . | 24.05 |
| 0.725 | . | 0.725 | 3.328 | 0.218 | . | 23.91 |
| 0.603 | 0.000 | 0.603 | 8.212 | 0.073 | 17.64 | 26.00 |
| 0.620 | 0.000 | 0.620 | 9.612 | 0.064 | 18.94 | 25.90 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.962 | 0.027 | 0.989 | 16.544 | 0.060 | 13.78 | 27.22 |
| 0.814 | 0.019 | 0.833 | 13.717 | 0.061 | 10.52 | 27.21 |
| 0.484 | . | 0.484 | 4.166 | 0.116 | . | 24.10 |
| 0.498 | . | 0.498 | 3.700 | 0.135 | . | 23.04 |
| 0.461 | . | 0.461 | 2.274 | 0.203 | . | 22.64 |
| 0.788 | 0.029 | 0.817 | 13.227 | 0.062 | 13.83 | 27.12 |
| 0.793 | 0.031 | 0.824 | 13.451 | 0.061 | 11.44 | 27.14 |
| 0.072 | 0.000 | . | . | 0.000 | . | . |
| 0.661 | 0.006 | 0.667 | 15.141 | 0.044 | 34.77 | 27.52 |
| 0.840 | 0.006 | 0.846 | 16.072 | 0.053 | 32.37 | 27.49 |
| 0.576 | . | 0.576 | 9.362 | 0.062 | . | 24.10 |
| 0.722 | . | 0.722 | 4.498 | 0.160 | . | 23.15 |
| 0.775 | . | 0.775 | 4.365 | 0.178 | . | 22.86 |
| 0.767 | 0.005 | 0.772 | 12.133 | 0.064 | 47.81 | 27.49 |
| 0.754 | 0.005 | 0.760 | 12.307 | 0.062 | 47.35 | 27.51 |
| 0.000 | 0.001 | . | . | 0.003 | . | . |
| 0.675 | 0.288 | 0.963 | 13.666 | 0.070 | 68.51 | 27.90 |
| 0.657 | 0.279 | 0.936 | 13.066 | 0.072 | 23.45 | 27.92 |
| 0.581 | . | 0.581 | 3.734 | 0.156 | . | 25.03 |
| 0.848 | . | 0.848 | 3.254 | 0.261 | . | 24.01 |
| 1.033 | . | 1.033 | 2.879 | 0.359 | . | 23.74 |
| 0.672 | 0.278 | 0.950 | 12.105 | 0.078 | 40.49 | 28.12 |
| 0.720 | 0.280 | 1.000 | 13.260 | 0.075 | 56.04 | 28.02 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.547 | 0.004 | 0.551 | 14.396 | 0.038 | 13.31 | 29.87 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.618 | 0.001 | 0.619 | 15.688 | 0.039 | 13.92 | 29.92 |
| 0.529 | . | 0.529 | 14.497 | 0.036 | . | 26.61 |
| 0.770 | . | 0.770 | 3.906 | 0.197 | . | 24.15 |
| 0.935 | . | 0.935 | 3.415 | 0.274 | . | 23.78 |
| 0.378 | 0.004 | 0.382 | 7.445 | 0.051 | 16.47 | 29.95 |
| 0.356 | 0.004 | 0.360 | 7.334 | 0.049 | 17.30 | 29.94 |
| 0.000 | 0.003 | . | . | 0.000 | . | . |
| 0.303 | 0.006 | 0.308 | 14.926 | 0.021 | 13.93 | 26.67 |
| 0.243 | 0.008 | 0.251 | 11.698 | 0.021 | 10.78 | 29.82 |
| 0.261 | . | 0.269 | 11.613 | 0.023 | . | 28.54 |
| 0.610 | . | 0.620 | 6.501 | 0.095 | . | 24.98 |
| 0.595 | . | 0.595 | 3.252 | 0.183 | . | 23.90 |
| 0.246 | 0.008 | 0.254 | 10.071 | 0.025 | 12.58 | 29.71 |
| 0.255 | 0.010 | 0.265 | 11.317 | 0.023 | 10.69 | 29.74 |
| 0.005 | 0.000 | . | . | 0.000 | . | . |
| 0.535 | 0.005 | 0.540 | 11.030 | 0.049 | 28.71 | 30.02 |
| 0.553 | 0.017 | 0.571 | 11.909 | 0.048 | 14.07 | 30.17 |
| 0.282 | . | 0.282 | 7.379 | 0.038 | . | 28.27 |
| 0.612 | . | 0.612 | 8.647 | 0.071 | . | 25.40 |
| 1.119 | . | 1.119 | 7.826 | 0.143 | . | 24.02 |
| 0.369 | 0.005 | 0.373 | 7.575 | 0.049 | 7.89 | 30.16 |
| 0.349 | 0.005 | 0.355 | 6.585 | 0.054 | 7.66 | 30.26 |
| 0.000 | 0.000 | . | . | 0.002 | . | . |
| 0.477 | 0.001 | 0.478 | 10.539 | 0.045 | 17.04 | 28.85 |
| 0.465 | 0.000 | 0.465 | 10.118 | 0.046 | 16.48 | 28.85 |
| 0.428 | 0.169 | 0.597 | 11.014 | 0.054 | . | 27.15 |
| 0.697 | 0.006 | 0.703 | 7.940 | 0.089 | . | 25.17 |
| 1.240 | 0.010 | 1.250 | 8.428 | 0.148 | . | 24.29 |
| 0.467 | 0.000 | 0.467 | 9.607 | 0.049 | 17.12 | 28.86 |
| 0.472 | 0.000 | 0.472 | 9.710 | 0.049 | 16.66 | 28.87 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 0.747 | 0.046 | 0.793 | 10.709 | 0.074 | 50.33 | 28.40 |
| 0.852 | 0.045 | 0.897 | 10.294 | 0.087 | 54.22 | 28.46 |
| 0.324 | . | 0.324 | 2.876 | 0.113 | . | 25.91 |
| 0.702 | . | 0.702 | 2.626 | 0.267 | . | 24.67 |
| 0.762 | . | 0.762 | 2.260 | 0.337 | . | 24.31 |
| 0.693 | 0.040 | 0.734 | 7.925 | 0.093 | 69.49 | 28.44 |
| 0.578 | 0.040 | 0.619 | 7.006 | 0.088 | 57.74 | 28.46 |
| 0.021 | 0.000 | . | . | 0.000 | . | . |
| 0.863 | 0.106 | 0.969 | 14.145 | 0.068 | 26.21 | 26.86 |
| 0.732 | 0.104 | 0.836 | 12.921 | 0.065 | 22.71 | 27.03 |
| 0.531 | . | 0.531 | 7.421 | 0.072 | . | 25.86 |
| 0.647 | . | 0.647 | 4.200 | 0.154 | . | 25.10 |
| 1.153 | . | 1.153 | 4.358 | 0.264 | . | 24.37 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.764 | 0.116 | 0.880 | 14.706 | 0.060 | 27.68 | 26.77 |
| 0.718 | 0.115 | 0.833 | 13.407 | 0.062 | 23.70 | 26.79 |
| 0.003 | 0.000 | . | . | 0.000 | . | . |
| 0.312 | 0.003 | 0.315 | 16.850 | 0.019 | 17.39 | 25.65 |
| 0.277 | 0.003 | 0.280 | 15.050 | 0.019 | 14.61 | 25.66 |
| 0.424 | . | 0.424 | 17.817 | 0.024 | . | 24.87 |
| 0.515 | . | 0.515 | 14.879 | 0.035 | . | 24.56 |
| 0.751 | . | 0.751 | 8.529 | 0.088 | . | 24.43 |
| 0.326 | 0.002 | 0.328 | 13.459 | 0.024 | 11.40 | 25.62 |
| 0.328 | 0.003 | 0.331 | 14.680 | 0.023 | 11.53 | 25.63 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.481 | 0.008 | 0.490 | 31.273 | 0.016 | 7.89 | 26.06 |
| 0.651 | 0.004 | 0.655 | 27.725 | 0.024 | 12.07 | 26.11 |
| 0.478 | . | 0.478 | 20.240 | 0.024 | . | 25.08 |
| 0.765 | . | 0.765 | 15.717 | 0.049 | . | 24.62 |
| 1.279 | . | 1.279 | 16.806 | 0.076 | . | 24.54 |
| 0.365 | 0.000 | 0.365 | 17.543 | 0.021 | 15.51 | 25.98 |
| 0.360 | 0.000 | 0.360 | 18.847 | 0.019 | 14.97 | 26.03 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.365 | 0.004 | 0.369 | 12.477 | 0.030 | 19.74 | 26.11 |
| 0.369 | 0.004 | 0.373 | 12.377 | 0.030 | 19.19 | 26.24 |
| 0.316 | . | 0.316 | 10.230 | 0.031 | . | 25.49 |
| 0.520 | . | 0.520 | 9.439 | 0.055 | . | 24.72 |
| 0.708 | . | 0.708 | 7.341 | 0.097 | . | 24.54 |
| 0.538 | 0.000 | 0.539 | 12.794 | 0.042 | 44.27 | 26.15 |
| 0.444 | 0.000 | 0.444 | 11.549 | 0.038 | 42.43 | 26.11 |
| 0.069 | 0.002 | . | . | 0.000 | . | . |
| 0.516 | 0.006 | 0.521 | 14.809 | 0.035 | 17.91 | 28.39 |
| 0.422 | 0.007 | 0.428 | 11.734 | 0.037 | 17.08 | 28.47 |
| 0.665 | . | 0.665 | 20.889 | 0.032 | . | 26.63 |
| 0.880 | . | 0.880 | 11.434 | 0.077 | . | 24.72 |
| 0.822 | . | 0.822 | 9.121 | 0.090 | . | 24.50 |
| 0.909 | 0.009 | 0.918 | 24.359 | 0.038 | 17.46 | 28.39 |
| 0.958 | 0.009 | 0.967 | 25.278 | 0.038 | 15.44 | 28.44 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.795 | 0.000 | 0.795 | 9.352 | 0.085 | 36.14 | 29.15 |
| 0.795 | 0.002 | 0.797 | 8.614 | 0.093 | 38.36 | 29.20 |
| 0.295 | . | 0.295 | 3.524 | 0.084 | . | 26.46 |
| 0.617 | . | 0.617 | 4.671 | 0.132 | . | 24.99 |
| 1.118 | . | 1.118 | 6.828 | 0.164 | . | 24.63 |
| 1.274 | 0.005 | 1.279 | 8.228 | 0.155 | 76.01 | 29.16 |
| 1.242 | 0.006 | 1.248 | 8.032 | 0.155 | 87.30 | 29.16 |
| 0.019 | 0.000 | . | . | 0.002 | . | . |
| 0.632 | 0.005 | 0.637 | 12.700 | 0.050 | 30.47 | 29.81 |

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|---|---|---|---|---|---|---|
| 0.742 | 0.004 | 0.746 | 14.817 | 0.050 | 21.98 | 29.91 |
| 0.583 | . | 0.583 | 6.966 | 0.084 | . | 26.37 |
| 0.901 | . | 0.901 | 6.172 | 0.146 | . | 25.03 |
| 0.754 | . | 0.754 | 3.809 | 0.198 | . | 24.67 |
| 0.499 | 0.003 | 0.502 | 13.739 | 0.037 | 14.77 | 29.86 |
| 0.553 | 0.003 | 0.556 | 15.633 | 0.036 | 13.76 | 29.92 |
| 0.000 | 0.002 | . | . | 0.000 | . | . |
| 0.676 | 0.006 | 0.682 | 11.448 | 0.060 | 33.33 | 28.54 |
| 1.270 | 0.006 | 1.276 | 17.901 | 0.071 | 40.57 | 28.64 |
| 0.487 | . | 0.491 | 4.129 | 0.119 | . | 25.63 |
| 1.040 | . | 1.044 | 6.172 | 0.169 | . | 24.98 |
| 0.957 | . | 0.959 | 5.372 | 0.178 | . | 24.71 |
| 0.595 | 0.004 | 0.611 | 9.679 | 0.063 | 36.55 | 28.49 |
| 0.581 | 0.004 | 0.595 | 9.339 | 0.064 | 34.93 | 28.47 |
| 0.061 | 0.002 | . | . | 0.000 | . | . |
| 0.565 | 0.016 | 0.580 | 12.305 | 0.047 | 25.76 | 28.78 |
| 0.639 | 0.013 | 0.652 | 12.103 | 0.054 | 27.46 | 28.78 |
| 0.434 | . | 0.474 | 6.187 | 0.077 | . | 26.78 |
| 0.886 | . | 0.924 | 5.529 | 0.167 | . | 25.03 |
| 1.310 | . | 1.310 | 5.674 | 0.231 | . | 24.66 |
| 0.526 | 0.040 | 0.566 | 12.782 | 0.044 | 24.07 | 28.77 |
| 0.525 | 0.038 | 0.563 | 12.749 | 0.044 | 23.33 | 28.76 |
| 0.054 | 0.000 | . | . | 0.000 | . | . |
| 0.410 | 0.003 | 0.413 | 14.924 | 0.028 | 16.65 | 28.07 |
| 0.380 | 0.003 | 0.383 | 14.304 | 0.027 | 14.70 | 28.37 |
| 0.472 | . | 0.472 | 6.567 | 0.072 | . | 26.72 |
| 0.705 | . | 0.705 | 4.207 | 0.168 | . | 25.20 |
| 1.368 | . | 1.368 | 4.882 | 0.280 | . | 24.86 |
| 0.493 | 0.003 | 0.496 | 8.543 | 0.058 | 34.25 | 28.25 |
| 0.535 | 0.003 | 0.538 | 9.506 | 0.057 | 34.82 | 28.33 |
| 0.086 | 0.002 | . | . | 0.000 | . | |
| 0.565 | 0.063 | 0.628 | 14.483 | 0.043 | 27.35 | 25.92 |
| 0.478 | 0.060 | 0.539 | 11.071 | 0.049 | 26.86 | 25.95 |
| 0.378 | . | 0.378 | 8.411 | 0.045 | . | 24.35 |
| 0.421 | . | 0.421 | 3.879 | 0.108 | . | 23.88 |
| 0.528 | . | 0.528 | 4.184 | 0.126 | . | 23.76 |
| 0.625 | 0.067 | 0.692 | 11.996 | 0.058 | 35.96 | 25.92 |
| 0.558 | 0.065 | 0.623 | 11.247 | 0.055 | 30.46 | 25.92 |
| 0.000 | 0.000 | . | . | 0.002 | . | |
| 0.543 | 0.018 | 0.561 | 11.651 | 0.048 | 25.65 | 26.64 |
| 0.400 | 0.019 | 0.419 | 9.400 | 0.045 | 21.20 | 26.75 |
| 0.194 | . | 0.194 | 5.053 | 0.038 | . | 24.95 |
| 0.240 | . | 0.240 | 2.715 | 0.089 | . | 24.00 |
| 0.424 | . | 0.424 | 3.128 | 0.136 | . | 23.79 |

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|---|---|---|---|---|---|---|
| 0.383 | 0.016 | 0.399 | 7.880 | 0.051 | 22.03 | 26.69 |
| 0.434 | 0.016 | 0.450 | 8.962 | 0.050 | 24.47 | 26.67 |
| 0.012 | 0.000 | . | . | 0.000 | . | |
| 0.339 | 0.007 | 0.347 | 20.163 | 0.017 | 11.02 | 27.64 |
| 0.380 | 0.007 | 0.386 | 17.834 | 0.022 | 9.46 | 27.64 |
| 0.381 | . | 0.386 | 12.528 | 0.031 | . | 26.22 |
| 0.618 | . | 0.622 | 4.444 | 0.140 | . | 24.21 |
| 0.982 | . | 0.982 | 4.073 | 0.241 | . | 23.90 |
| 0.399 | 0.005 | 0.404 | 11.588 | 0.035 | 12.57 | 27.67 |
| 0.401 | 0.004 | 0.406 | 13.390 | 0.030 | 12.44 | 27.68 |
| 0.000 | 0.000 | . | . | 0.000 | . | |
| 0.436 | 0.005 | 0.442 | 9.487 | 0.047 | 29.69 | 27.57 |
| 0.381 | 0.004 | 0.385 | 6.936 | 0.056 | 35.62 | 27.69 |
| 0.250 | . | 0.250 | 5.381 | 0.046 | . | 27.19 |
| 0.767 | . | 0.767 | 3.693 | 0.208 | . | 24.39 |
| 0.956 | . | 0.956 | 3.575 | 0.267 | . | 23.86 |
| 0.235 | 0.006 | 0.241 | 4.022 | 0.060 | 27.83 | 27.70 |
| 0.210 | 0.006 | 0.216 | 4.001 | 0.054 | 31.09 | 27.73 |
| 0.000 | 0.004 | . | . | 0.000 | . | . |
| 0.281 | 0.022 | 0.304 | 12.368 | 0.025 | 11.38 | 25.07 |
| 0.543 | 0.020 | 0.563 | 26.768 | 0.021 | 11.87 | 24.95 |
| 0.468 | . | 0.468 | 27.452 | 0.017 | . | 23.70 |
| 0.450 | . | 0.450 | 28.281 | 0.016 | . | 23.10 |
| 0.509 | 0.017 | 0.526 | 24.767 | 0.021 | 12.56 | 25.21 |
| 0.520 | 0.017 | 0.536 | 28.288 | 0.019 | 9.92 | 25.19 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 0.740 | 0.010 | 0.750 | 20.828 | 0.036 | 30.65 | 25.03 |
| 0.894 | 0.008 | 0.902 | 23.337 | 0.039 | 26.76 | 25.08 |
| 0.388 | . | 0.388 | 20.836 | 0.019 | . | 24.11 |
| 1.177 | 0.016 | 1.193 | 22.421 | 0.053 | 27.45 | 25.06 |
| 1.087 | 0.019 | 1.106 | 19.563 | 0.057 | 27.33 | 25.02 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 2.401 | 0.004 | 2.405 | 12.175 | 0.198 | 257.33 | 25.55 |
| 1.118 | 0.001 | 1.119 | 13.673 | 0.082 | 117.80 | 25.63 |
| 0.357 | . | 0.357 | 13.421 | 0.027 | . | 23.70 |
| 0.932 | . | 0.932 | 21.381 | 0.044 | . | 22.89 |
| 0.798 | 0.007 | 0.806 | 13.629 | 0.059 | 98.36 | 25.59 |
| 0.845 | 0.007 | 0.852 | 12.505 | 0.068 | 89.21 | 25.56 |
| 0.074 | 0.000 | . | . | 0.000 | . | . |
| 1.040 | 0.006 | 1.046 | 12.033 | 0.087 | 138.39 | 25.82 |
| 1.324 | 0.002 | 1.326 | 17.982 | 0.074 | 110.25 | 25.82 |
| 0.242 | . | 0.242 | 8.285 | 0.029 | . | 23.61 |
| 0.882 | . | 0.882 | 21.209 | 0.042 | . | 23.02 |
| 1.272 | . | 1.272 | 15.879 | 0.080 | . | 22.86 |

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|---|---|---|---|---|---|---|
| 1.187 | 0.000 | 1.187 | 13.264 | 0.089 | 93.78 | 25.84 |
| 1.315 | 0.000 | 1.315 | 14.425 | 0.091 | 83.26 | 25.82 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 1.341 | 0.006 | 1.347 | 14.693 | 0.092 | 112.88 | 26.35 |
| 3.174 | 0.007 | 3.182 | 14.460 | 0.220 | 496.36 | 26.36 |
| 0.654 | . | 0.654 | 11.054 | 0.059 | . | 23.85 |
| 1.163 | . | 1.163 | 10.722 | 0.108 | . | 23.07 |
| 2.439 | 0.002 | 2.442 | 13.017 | 0.188 | 417.45 | 26.39 |
| 2.611 | 0.003 | 2.613 | 12.295 | 0.213 | 339.67 | 26.32 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 1.067 | 0.002 | 1.070 | 14.451 | 0.074 | 120.89 | 28.80 |
| 1.246 | 0.001 | 1.246 | 10.175 | 0.122 | 124.55 | 28.82 |
| 0.438 | . | 0.438 | 13.516 | 0.032 | . | 24.36 |
| 1.200 | 0.004 | 1.205 | 12.217 | 0.099 | 129.92 | 28.83 |
| 1.230 | 0.004 | 1.234 | 12.023 | 0.103 | 142.16 | 28.83 |
| 0.000 | 0.002 | . | . | 0.000 | . | . |
| 0.771 | 0.013 | 0.784 | 21.559 | 0.036 | 132.21 | 28.28 |
| 0.749 | 0.008 | 0.757 | 20.848 | 0.036 | 106.82 | 28.30 |
| 0.295 | . | 0.303 | 13.407 | 0.023 | . | 26.81 |
| 1.559 | . | 1.568 | 27.010 | 0.058 | . | 23.91 |
| 0.531 | 0.008 | 0.531 | 18.288 | 0.029 | 110.25 | 28.34 |
| 0.451 | 0.009 | 0.496 | 18.414 | 0.027 | 147.42 | 28.38 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.737 | 0.044 | 0.737 | 26.440 | 0.028 | 15.67 | 28.53 |
| 0.699 | 0.042 | 0.742 | 21.968 | 0.034 | 10.18 | 28.54 |
| 0.733 | . | 0.776 | 25.571 | 0.030 | . | 27.23 |
| 0.386 | 0.044 | 0.387 | 15.036 | 0.026 | 11.67 | 28.55 |
| 0.345 | 0.044 | 0.410 | 16.292 | 0.025 | 9.84 | 28.56 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |
| 0.255 | 0.065 | 0.255 | 10.384 | 0.025 | 23.52 | 28.39 |
| 0.339 | 0.059 | 0.339 | 11.749 | 0.029 | 25.50 | 28.50 |
| 0.468 | . | 0.526 | 19.666 | 0.027 | . | 25.61 |
| 1.662 | . | 1.720 | 22.932 | 0.075 | . | 24.10 |
| 0.512 | 0.058 | 0.514 | 19.996 | 0.026 | 27.90 | 28.45 |
| 0.560 | 0.058 | 0.623 | 23.905 | 0.026 | 11.10 | 28.46 |
| 0.000 | 0.002 | . | . | 0.000 | . | . |
| 0.680 | 0.063 | 0.713 | 28.937 | 0.025 | 10.48 | 27.49 |
| 0.680 | 0.065 | 0.744 | 27.084 | 0.027 | 10.69 | 27.52 |
| 0.688 | 0.033 | 0.751 | 34.893 | 0.022 | . | 26.93 |
| 2.609 | 0.064 | 2.672 | 56.991 | 0.047 | . | 24.11 |
| 0.691 | 0.063 | 0.691 | 26.086 | 0.026 | 11.94 | 27.54 |
| 0.602 | 0.063 | 0.608 | 23.279 | 0.026 | 11.23 | 27.55 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.294 | 0.006 | 0.294 | 9.133 | 0.032 | 20.42 | 26.47 |

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|---|---|---|---|---|---|---|
| 0.554 | 0.004 | 0.554 | 15.658 | 0.035 | 20.51 | 26.51 |
| 0.694 | . | 0.694 | 20.608 | 0.034 | . | 25.69 |
| 1.425 | . | 1.425 | 16.130 | 0.088 | . | 23.99 |
| 0.578 | 0.000 | 0.578 | 16.852 | 0.034 | 25.14 | 26.60 |
| 0.644 | 0.000 | 0.697 | 17.775 | 0.039 | 23.67 | 26.57 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.639 | 0.053 | 0.639 | 32.618 | 0.020 | 12.19 | 23.42 |
| 0.578 | 0.051 | 0.578 | 34.251 | 0.017 | 16.18 | 23.47 |
| 0.597 | . | 0.651 | 34.893 | 0.019 | . | 23.38 |
| 0.549 | . | 0.602 | 32.382 | 0.019 | . | 23.37 |
| 0.582 | 0.054 | 0.582 | 34.448 | 0.017 | 17.25 | 23.49 |
| 0.606 | 0.053 | 0.672 | 34.924 | 0.019 | 20.42 | 23.48 |
| 0.031 | 0.000 | . | . | 0.000 | . | . |
| 0.135 | 0.067 | 0.135 | 7.600 | 0.018 | 15.32 | 23.73 |
| 0.148 | 0.066 | 0.148 | 8.277 | 0.018 | 15.77 | 23.79 |
| 0.168 | . | 0.231 | 15.221 | 0.015 | . | 23.32 |
| 0.260 | . | 0.322 | 9.737 | 0.033 | . | 23.17 |
| 0.187 | 0.063 | 0.187 | 10.092 | 0.019 | 16.60 | 23.83 |
| 0.158 | 0.062 | 0.262 | 14.406 | 0.018 | 15.01 | 23.82 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.425 | 0.103 | 0.425 | 18.535 | 0.023 | 19.52 | 25.46 |
| 0.478 | 0.093 | 0.566 | 25.377 | 0.022 | 15.83 | 25.46 |
| 0.559 | . | 0.652 | . | . | . | 23.93 |
| 0.559 | 0.088 | 0.559 | 29.092 | 0.019 | 21.10 | 25.47 |
| 0.645 | 0.093 | 0.721 | 34.022 | 0.021 | 22.36 | 25.52 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.306 | 0.075 | 0.306 | 18.725 | 0.016 | 14.31 | 24.09 |
| 0.330 | 0.086 | 0.330 | 20.355 | 0.016 | 15.26 | 24.08 |
| 0.464 | . | 0.527 | 30.081 | 0.018 | . | 23.80 |
| 1.038 | . | 1.099 | 35.416 | 0.031 | . | 23.29 |
| 0.521 | 0.064 | 0.521 | 27.815 | 0.019 | 19.64 | 24.12 |
| 0.566 | 0.061 | 0.571 | 30.951 | 0.018 | 15.88 | 24.12 |
| 0.025 | 0.000 | . | . | 0.000 | . | . |
| 0.424 | 0.005 | 0.424 | 14.586 | 0.029 | 24.80 | 28.03 |
| 0.424 | 0.002 | 0.426 | 14.576 | 0.029 | 20.31 | 28.05 |
| 0.642 | . | 0.643 | 26.908 | 0.024 | . | 25.77 |
| 0.445 | 0.002 | 0.445 | 15.427 | 0.029 | 7.62 | 28.20 |
| 0.436 | 0.000 | 0.439 | 14.187 | 0.031 | 13.79 | 28.29 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 1.158 | 0.004 | 1.160 | 15.284 | 0.076 | 42.37 | 27.22 |
| 0.899 | 0.006 | 0.901 | 14.366 | 0.063 | 88.21 | 27.24 |
| 0.410 | . | 0.410 | 13.093 | 0.031 | . | 25.70 |
| 1.248 | . | 1.253 | 20.064 | 0.062 | . | 24.53 |
| 0.688 | 0.002 | 0.689 | 10.750 | 0.064 | 85.29 | 27.16 |

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|---|---|---|---|---|---|---|
| 0.722 | 0.003 | 0.727 | 14.197 | 0.051 | 42.10 | 27.21 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |
| 0.603 | 0.005 | 0.606 | 18.172 | 0.033 | 34.52 | 28.31 |
| 0.840 | 0.003 | 0.844 | 19.779 | 0.043 | 65.56 | 28.38 |
| 0.574 | . | 0.574 | 18.501 | 0.031 | . | 25.18 |
| 0.766 | 0.003 | 0.772 | 20.312 | 0.038 | 48.44 | 28.35 |
| 0.795 | 0.004 | 0.799 | 19.627 | 0.041 | 17.67 | 28.33 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.932 | 0.005 | 0.944 | 22.714 | 0.042 | 33.30 | 28.07 |
| 1.780 | 0.004 | 1.781 | 22.393 | 0.080 | 47.01 | 28.10 |
| 0.791 | . | 0.802 | 23.092 | 0.035 | . | 25.67 |
| 0.511 | . | 0.512 | 12.273 | 0.042 | . | 24.30 |
| 0.973 | 0.012 | 0.984 | 26.306 | 0.037 | 30.74 | 28.26 |
| 0.922 | 0.012 | 0.932 | 25.359 | 0.037 | 26.60 | 28.06 |
| 0.033 | 0.001 | . | . | 0.000 | . | . |
| 0.834 | 0.011 | 0.846 | 17.779 | 0.048 | 46.77 | 28.32 |
| 1.267 | 0.010 | 1.268 | 19.715 | 0.064 | 68.57 | 28.54 |
| 0.562 | . | 0.583 | 17.736 | 0.033 | . | 25.35 |
| 0.923 | . | 0.925 | 16.666 | 0.055 | . | 24.51 |
| 0.716 | 0.012 | 0.736 | 20.454 | 0.036 | 2.98 | 28.45 |
| 0.683 | 0.012 | 0.704 | 21.779 | 0.032 | 5.02 | 28.41 |
| 0.000 | 0.001 | . | . | 0.000 | . | |
| 0.865 | 0.020 | 0.887 | 55.413 | 0.016 | 28.86 | 24.36 |
| 0.832 | 0.021 | 0.854 | 25.861 | 0.033 | 83.61 | 24.48 |
| 0.486 | . | 0.488 | 19.701 | 0.025 | . | 23.72 |
| 0.782 | 0.022 | 0.800 | 17.389 | 0.046 | 43.81 | 24.51 |
| 0.811 | 0.022 | 0.825 | 20.422 | 0.040 | 106.09 | 24.50 |
| 0.000 | 0.002 | . | . | 0.000 | . | |
| 1.166 | 0.018 | 1.166 | 21.689 | 0.054 | 83.84 | 25.10 |
| 0.823 | 0.014 | 0.829 | 25.807 | 0.032 | 58.39 | 25.16 |
| 0.386 | . | 0.391 | 11.919 | 0.033 | . | 24.18 |
| 0.653 | . | 0.653 | 29.644 | 0.022 | . | 23.27 |
| 0.621 | 0.006 | 0.630 | 20.098 | 0.031 | 68.98 | 25.16 |
| 0.605 | 0.005 | 0.615 | 17.883 | 0.034 | 61.11 | 25.18 |
| 0.000 | 0.000 | . | . | 0.003 | . | |
| 1.256 | 0.009 | 1.256 | 22.194 | 0.057 | 51.97 | 25.90 |
| 0.486 | 0.010 | 0.491 | 14.840 | 0.033 | 40.39 | 25.97 |
| 0.530 | . | 0.534 | 8.194 | 0.065 | . | 24.80 |
| 0.970 | . | 0.972 | 34.733 | 0.028 | . | 23.47 |
| 1.086 | 0.005 | 1.105 | 22.272 | 0.050 | 98.90 | 25.98 |
| 0.905 | 0.005 | 0.923 | 17.140 | 0.054 | 97.64 | 26.03 |
| 0.000 | 0.002 | . | . | 0.000 | . | |
| 0.639 | 0.020 | 0.658 | 26.347 | 0.025 | 44.10 | 26.44 |
| 1.410 | 0.018 | 1.431 | 22.625 | 0.063 | 174.80 | 26.44 |

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|---|---|---|---|---|---|---|
| 0.278 | . | 0.278 | 12.052 | 0.023 | . | 25.05 |
| 0.303 | 0.020 | 0.303 | 12.709 | 0.024 | 47.47 | 26.48 |
| 0.286 | 0.021 | 0.286 | 11.550 | 0.025 | 36.95 | 26.51 |
| 0.009 | 0.000 | . | . | 0.000 | . | . |
| 0.216 | 0.090 | 0.306 | 47.109 | 0.006 | 0.56 | 25.87 |
| 0.187 | 0.103 | 0.290 | 38.796 | 0.007 | 0.65 | 25.89 |
| 0.194 | . | 0.194 | 32.739 | 0.006 | . | 25.74 |
| 0.184 | . | 0.184 | 26.244 | 0.007 | . | 25.14 |
| 0.194 | . | 0.194 | 33.865 | 0.006 | . | 25.02 |
| 0.191 | 0.118 | 0.309 | 42.542 | 0.007 | 0.63 | 26.02 |
| 0.183 | 0.098 | 0.281 | 48.257 | 0.006 | 0.75 | 26.04 |
| 0.023 | 0.000 | . | . | 0.002 | . | . |
| 0.226 | 0.040 | 0.266 | 26.960 | 0.010 | 2.82 | 26.35 |
| 0.176 | 0.042 | 0.219 | 22.684 | 0.010 | 3.08 | 26.51 |
| 0.207 | . | 0.207 | 24.996 | 0.008 | . | 26.24 |
| 0.208 | . | 0.208 | 22.013 | 0.009 | . | 25.65 |
| 0.415 | . | 0.415 | 49.546 | 0.008 | . | 25.23 |
| 0.198 | 0.040 | 0.238 | 29.835 | 0.008 | 3.11 | 26.32 |
| 0.201 | 0.040 | 0.241 | 28.543 | 0.008 | 2.24 | 26.35 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.169 | 0.042 | 0.212 | 35.904 | 0.006 | 2.15 | 26.40 |
| 0.184 | 0.042 | 0.226 | 26.839 | 0.008 | 4.25 | 26.60 |
| 0.242 | . | 0.242 | 20.884 | 0.012 | . | 25.20 |
| 0.253 | . | 0.253 | 11.081 | 0.023 | . | 24.56 |
| 0.293 | . | 0.293 | 10.457 | 0.028 | . | 24.18 |
| 0.202 | 0.023 | 0.225 | 21.614 | 0.010 | 5.18 | 26.46 |
| 0.194 | 0.025 | 0.219 | 25.354 | 0.009 | 3.87 | 26.50 |
| 0.010 | 0.002 | . | . | 0.000 | . | . |
| 0.148 | 0.016 | 0.164 | 29.751 | 0.006 | 0.95 | 26.39 |
| 0.204 | 0.011 | 0.215 | 34.367 | 0.006 | 0.85 | 26.54 |
| 0.180 | . | 0.180 | 26.660 | 0.007 | . | 26.08 |
| 0.166 | . | 0.166 | 18.386 | 0.009 | . | 24.64 |
| 0.213 | . | 0.213 | 16.332 | 0.013 | . | 24.22 |
| 0.200 | 0.013 | 0.213 | 32.977 | 0.006 | 0.81 | 26.43 |
| 0.239 | 0.014 | 0.253 | 40.944 | 0.006 | 0.90 | 26.47 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.212 | 0.003 | 0.214 | 24.161 | 0.009 | 3.78 | 28.08 |
| 0.234 | 0.005 | 0.239 | 30.164 | 0.008 | 3.13 | 28.07 |
| 0.175 | . | 0.175 | 14.304 | 0.012 | . | 26.17 |
| 0.206 | . | 0.206 | 13.408 | 0.015 | . | 25.05 |
| 0.283 | . | 0.283 | 19.476 | 0.015 | . | 24.39 |
| 0.315 | 0.004 | 0.319 | 34.401 | 0.009 | 2.65 | 28.07 |
| 0.285 | 0.005 | 0.290 | 33.013 | 0.009 | 3.87 | 28.09 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |

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|---|---|---|---|---|---|---|
| 0.164 | 0.005 | 0.170 | 17.831 | 0.010 | 3.97 | 28.73 |
| 0.202 | 0.004 | 0.206 | 21.385 | 0.010 | 3.71 | 28.77 |
| 0.163 | . | 0.163 | 14.961 | 0.011 | . | 26.33 |
| 0.111 | . | 0.111 | 9.171 | 0.012 | . | 25.04 |
| 0.418 | . | 0.418 | 25.998 | 0.016 | . | 24.48 |
| 0.181 | 0.000 | 0.181 | 19.350 | 0.009 | 3.79 | 28.76 |
| 0.177 | 0.000 | 0.177 | 19.979 | 0.009 | 4.05 | 28.78 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |
| 0.266 | 0.008 | 0.274 | 70.192 | 0.004 | 1.35 | 29.72 |
| 0.325 | 0.005 | 0.330 | 78.243 | 0.004 | 1.24 | 29.79 |
| 0.330 | . | 0.330 | 33.528 | 0.010 | . | 28.91 |
| 0.396 | . | 0.396 | 102.384 | 0.004 | . | 25.27 |
| 0.527 | . | 0.527 | 86.451 | 0.006 | . | 24.58 |
| 0.054 | 0.008 | 0.062 | 11.265 | 0.006 | 1.94 | 29.72 |
| 0.048 | 0.009 | 0.057 | 9.309 | 0.006 | 1.48 | 29.71 |
| 0.092 | 0.000 | . | . | 0.000 | . | . |
| 0.277 | 0.008 | 0.286 | 35.224 | 0.008 | 3.84 | 29.82 |
| 0.220 | 0.008 | 0.229 | 26.955 | 0.008 | 3.54 | 29.89 |
| 0.323 | . | 0.323 | 27.008 | 0.012 | . | 28.09 |
| 0.315 | . | 0.315 | 22.069 | 0.014 | . | 25.62 |
| 0.520 | . | 0.520 | 39.405 | 0.013 | . | 25.20 |
| 0.396 | 0.003 | 0.399 | 45.897 | 0.009 | 3.60 | 29.82 |
| 0.346 | 0.004 | 0.349 | 45.803 | 0.008 | 3.06 | 29.82 |
| 0.110 | 0.000 | . | . | 0.001 | . | . |
| 0.238 | 0.017 | 0.255 | 42.135 | 0.006 | 3.83 | 29.54 |
| 0.208 | 0.018 | 0.226 | 32.306 | 0.007 | 3.81 | 29.58 |
| 0.306 | . | 0.306 | 39.243 | 0.008 | . | 29.38 |
| 0.384 | . | 0.384 | 35.072 | 0.011 | . | 26.36 |
| 0.461 | . | 0.461 | 45.160 | 0.010 | . | 25.44 |
| 0.262 | 0.016 | 0.278 | 39.087 | 0.007 | 3.37 | 29.57 |
| 0.292 | 0.014 | 0.306 | 46.859 | 0.007 | 3.49 | 29.59 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.101 | 0.007 | 0.108 | 11.908 | 0.009 | 5.04 | 28.48 |
| 0.276 | 0.005 | 0.281 | 25.798 | 0.011 | 5.49 | 28.48 |
| 0.151 | . | 0.151 | 15.702 | 0.010 | . | 28.30 |
| 0.123 | . | 0.123 | 11.143 | 0.011 | . | 27.14 |
| 0.249 | . | 0.249 | 14.100 | 0.018 | . | 26.05 |
| 0.029 | 0.003 | 0.032 | 3.193 | 0.010 | 6.74 | 28.48 |
| 0.000 | 0.004 | 0.004 | 0.449 | 0.010 | 6.20 | 27.47 |
| 0.040 | 0.000 | . | . | 0.001 | . | . |
| 0.206 | 0.008 | 0.214 | 28.174 | 0.008 | 6.92 | 28.05 |
| 0.189 | 0.000 | 0.189 | 23.094 | 0.008 | 7.03 | 28.06 |
| 0.148 | . | 0.148 | 19.993 | 0.007 | . | 27.84 |
| 0.316 | . | 0.316 | 24.797 | 0.013 | . | 27.27 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.441 | . | 0.441 | 44.994 | 0.010 | . | 26.39 |
| 0.338 | 0.000 | 0.338 | 48.564 | 0.007 | 7.36 | 28.06 |
| 0.284 | 0.000 | 0.284 | 41.477 | 0.007 | 7.35 | 28.05 |
| 0.035 | 0.004 | . | . | 0.002 | . | . |
| 0.229 | 0.039 | 0.268 | 40.790 | 0.007 | 5.47 | 25.38 |
| 0.235 | 0.038 | 0.273 | 60.332 | 0.005 | 4.86 | 25.41 |
| 0.019 | . | 0.019 | 4.733 | 0.004 | . | 25.31 |
| 0.084 | . | 0.084 | 15.173 | 0.006 | . | 25.09 |
| 0.037 | . | 0.037 | 11.972 | 0.003 | . | 25.05 |
| 0.241 | 0.037 | 0.278 | 81.841 | 0.003 | 4.78 | 25.38 |
| 0.212 | 0.034 | 0.246 | 56.679 | 0.004 | 5.03 | 25.39 |
| 0.072 | 0.000 | . | . | 0.000 | . | . |
| 0.308 | 0.049 | 0.357 | 49.270 | 0.007 | 2.98 | 25.59 |
| 0.086 | 0.044 | 0.129 | 22.603 | 0.006 | 2.91 | 25.60 |
| 0.315 | . | 0.315 | 56.227 | 0.006 | . | 25.45 |
| 0.376 | . | 0.376 | 62.547 | 0.006 | . | 25.25 |
| 0.272 | . | 0.272 | 49.089 | 0.006 | . | 25.09 |
| 0.291 | 0.068 | 0.359 | 62.613 | 0.006 | 3.41 | 25.60 |
| 0.322 | 0.083 | 0.405 | 72.826 | 0.006 | 3.32 | 25.61 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 0.075 | 0.044 | 0.119 | 17.298 | 0.007 | 5.12 | 25.72 |
| 0.091 | 0.045 | 0.136 | 19.850 | 0.007 | 4.73 | 25.78 |
| 0.104 | . | 0.104 | 14.826 | 0.007 | . | 25.51 |
| 0.111 | . | 0.111 | 16.595 | 0.007 | . | 25.45 |
| 0.184 | . | 0.184 | 29.718 | 0.006 | . | 25.29 |
| 0.108 | 0.043 | 0.151 | 23.955 | 0.006 | 4.92 | 25.72 |
| 0.122 | 0.042 | 0.164 | 24.574 | 0.007 | 4.78 | 25.71 |
| 0.040 | 0.004 | . | . | 0.000 | . | . |
| 0.243 | 0.004 | 0.247 | 21.956 | 0.011 | 11.21 | 26.94 |
| 0.234 | 0.005 | 0.239 | 21.982 | 0.011 | 11.33 | 27.08 |
| 0.242 | . | 0.242 | 22.874 | 0.011 | . | 26.66 |
| 0.237 | . | 0.237 | 35.864 | 0.007 | . | 25.53 |
| 0.267 | . | 0.267 | 39.129 | 0.007 | . | 25.35 |
| 0.239 | 0.005 | 0.244 | 23.382 | 0.010 | 11.71 | 26.96 |
| 0.262 | 0.005 | 0.267 | 27.352 | 0.010 | 11.59 | 27.02 |
| 0.059 | 0.000 | . | . | 0.000 | . | . |
| 0.170 | 0.000 | 0.170 | 23.141 | 0.007 | 5.05 | 28.98 |
| 0.112 | 0.000 | 0.112 | 13.192 | 0.008 | 4.96 | 29.04 |
| 0.133 | . | 0.133 | 16.217 | 0.008 | . | 27.70 |
| 0.176 | . | 0.176 | 23.598 | 0.007 | . | 26.52 |
| 0.205 | . | 0.205 | 24.296 | 0.008 | . | 25.98 |
| 0.162 | 0.000 | 0.162 | 20.330 | 0.008 | 4.45 | 29.00 |
| 0.178 | 0.000 | 0.178 | 27.623 | 0.006 | 4.60 | 29.04 |
| 0.000 | 0.002 | . | . | 0.000 | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.278 | 0.005 | 0.283 | 22.585 | 0.013 | 9.62 | 28.99 |
| 0.286 | 0.004 | 0.290 | 23.044 | 0.013 | 9.97 | 29.04 |
| 0.167 | . | 0.167 | 9.234 | 0.018 | . | 27.05 |
| 0.160 | . | 0.160 | 9.690 | 0.016 | . | 26.32 |
| 0.101 | . | 0.101 | 9.046 | 0.011 | . | 25.99 |
| 0.266 | 0.004 | 0.270 | 22.888 | 0.012 | 8.38 | 29.03 |
| 0.271 | 0.004 | 0.275 | 27.653 | 0.010 | 8.58 | 29.03 |
| 0.079 | 0.003 | . | . | 0.000 | . | . |
| 0.543 | 0.007 | 0.550 | 58.785 | 0.009 | 7.61 | 30.16 |
| 0.320 | 0.008 | 0.328 | 33.696 | 0.010 | 7.77 | 30.29 |
| 0.155 | . | 0.164 | 14.826 | 0.011 | . | 28.41 |
| 0.183 | . | 0.192 | 21.511 | 0.009 | . | 26.65 |
| 0.102 | . | 0.102 | 13.552 | 0.008 | . | 26.14 |
| 0.345 | 0.009 | 0.353 | 36.195 | 0.010 | 7.95 | 30.18 |
| 0.374 | 0.009 | 0.383 | 38.845 | 0.010 | 7.45 | 30.23 |
| 0.043 | 0.000 | . | . | 0.000 | . | . |
| 0.274 | 0.012 | 0.285 | 17.047 | 0.017 | 14.60 | 29.92 |
| 0.290 | 0.012 | 0.302 | 17.254 | 0.018 | 13.51 | 29.88 |
| 0.197 | . | 0.197 | 13.404 | 0.015 | . | 26.54 |
| 0.180 | . | 0.180 | 14.557 | 0.012 | . | 25.74 |
| 0.159 | . | 0.159 | 11.397 | 0.014 | . | 25.46 |
| 0.288 | 0.011 | 0.299 | 16.311 | 0.018 | 15.45 | 29.80 |
| 0.303 | 0.011 | 0.314 | 15.721 | 0.020 | 15.78 | 29.81 |
| 0.037 | 0.002 | . | . | 0.000 | . | . |
| 0.197 | 0.010 | 0.206 | 18.600 | 0.011 | 5.75 | 29.58 |
| 0.213 | 0.008 | 0.221 | 20.052 | 0.011 | 7.40 | 29.68 |
| 0.188 | . | 0.188 | 14.992 | 0.013 | . | 29.05 |
| 0.193 | . | 0.193 | 21.798 | 0.009 | . | 26.00 |
| 0.212 | . | 0.212 | 25.088 | 0.008 | . | 25.47 |
| 0.213 | 0.008 | 0.221 | 21.811 | 0.010 | 6.03 | 29.57 |
| 0.200 | 0.008 | 0.208 | 22.630 | 0.009 | 5.95 | 29.55 |
| 0.000 | 0.000 | . | . | 0.001 | . | |
| 0.128 | 0.004 | 0.132 | 17.214 | 0.008 | 8.75 | 25.85 |
| 0.166 | 0.005 | 0.171 | 18.071 | 0.009 | 7.86 | 25.83 |
| 0.143 | . | 0.143 | 13.652 | 0.010 | . | 25.77 |
| 0.107 | . | 0.107 | 11.582 | 0.009 | . | 25.01 |
| 0.089 | . | 0.089 | 10.753 | 0.008 | . | 24.90 |
| 0.127 | 0.004 | 0.131 | 20.107 | 0.007 | 7.68 | 25.87 |
| 0.115 | 0.005 | 0.120 | 18.419 | 0.006 | 7.76 | 25.86 |
| 0.000 | 0.000 | . | . | 0.001 | . | |
| 0.129 | 0.002 | 0.131 | 14.566 | 0.009 | 9.35 | 26.38 |
| 0.162 | 0.002 | 0.164 | 19.563 | 0.008 | 9.35 | 26.42 |
| 0.118 | . | 0.118 | 13.769 | 0.009 | . | 26.23 |
| 0.121 | . | 0.121 | 16.215 | 0.007 | . | 25.10 |

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|---|---|---|---|---|---|---|
| 0.079 | . | 0.079 | 11.310 | 0.007 | . | 24.78 |
| 0.186 | 0.002 | 0.188 | 26.667 | 0.007 | 8.31 | 26.37 |
| 0.157 | 0.003 | 0.160 | 19.910 | 0.008 | 8.54 | 26.37 |
| 0.000 | 0.001 | . | . | 0.002 | . | |
| 0.093 | 0.001 | 0.095 | 11.116 | 0.009 | 6.78 | 27.73 |
| 0.089 | 0.002 | 0.090 | 10.540 | 0.009 | 7.12 | 27.87 |
| 0.166 | . | 0.168 | 17.885 | 0.009 | . | 27.22 |
| 0.061 | . | 0.062 | 6.413 | 0.010 | . | 25.63 |
| 0.083 | . | 0.083 | 7.483 | 0.011 | . | 25.07 |
| 0.071 | 0.002 | 0.073 | 8.686 | 0.008 | 7.89 | 27.76 |
| 0.058 | 0.001 | 0.059 | 7.483 | 0.008 | 7.98 | 27.76 |
| 0.000 | 0.002 | . | . | 0.000 | . | |
| 0.000 | 0.022 | 0.022 | 28.856 | 0.001 | 4.81 | 28.60 |
| 0.019 | 0.022 | 0.041 | 33.942 | 0.001 | 6.04 | 28.60 |
| 0.023 | . | 0.047 | 10.255 | 0.005 | . | 28.21 |
| 0.016 | . | 0.040 | 6.735 | 0.006 | . | 26.01 |
| 0.113 | . | 0.113 | 24.113 | 0.005 | . | 25.29 |
| 0.075 | 0.023 | 0.098 | 53.203 | 0.002 | 7.53 | 28.60 |
| 0.041 | 0.025 | 0.066 | 21.206 | 0.003 | 8.49 | 28.58 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |
| 0.384 | 0.004 | 0.388 | 10.299 | 0.038 | 2.92 | 24.92 |
| 0.270 | 0.004 | 0.273 | 7.193 | 0.038 | 1.92 | 24.93 |
| 0.329 | . | 0.329 | 9.431 | 0.035 | . | 24.68 |
| 0.662 | . | 0.662 | 15.519 | 0.043 | . | 24.41 |
| 0.724 | . | 0.724 | 17.236 | 0.042 | . | 24.38 |
| 0.421 | 0.004 | 0.425 | 11.437 | 0.037 | 3.09 | 26.06 |
| 0.409 | 0.004 | 0.413 | 10.719 | 0.039 | 2.32 | 25.04 |
| 0.063 | 0.000 | . | . | 0.000 | . | . |
| 0.482 | 0.000 | 0.482 | 16.781 | 0.029 | 9.55 | 25.12 |
| 0.433 | 0.000 | 0.433 | 15.419 | 0.028 | 10.44 | 25.14 |
| 0.402 | . | 0.402 | 13.113 | 0.031 | . | 25.06 |
| 0.388 | . | 0.388 | 14.147 | 0.027 | . | 24.96 |
| 0.986 | . | 0.986 | 7.224 | 0.136 | . | 24.41 |
| 0.365 | 0.000 | 0.365 | 11.295 | 0.032 | 10.40 | 25.22 |
| 0.397 | 0.000 | 0.397 | 12.725 | 0.031 | 10.49 | 25.26 |
| 0.024 | 0.002 | . | . | 0.000 | . | . |
| 0.418 | 0.004 | 0.422 | 18.042 | 0.023 | 5.26 | 25.78 |
| 0.401 | 0.005 | 0.406 | 15.245 | 0.027 | 6.26 | 25.93 |
| 0.351 | . | 0.351 | 14.865 | 0.024 | . | 24.89 |
| 0.610 | . | 0.610 | 8.750 | 0.070 | . | 24.54 |
| 0.933 | . | 0.933 | 6.170 | 0.151 | . | 24.36 |
| 0.463 | 0.007 | 0.470 | 13.294 | 0.035 | 6.08 | 25.90 |
| 0.462 | 0.007 | 0.469 | 15.192 | 0.031 | 8.55 | 25.89 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |

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|---|---|---|---|---|---|---|
| 0.275 | 0.006 | 0.281 | 19.817 | 0.014 | 4.68 | 27.54 |
| 0.321 | 0.002 | 0.324 | 21.306 | 0.015 | 2.93 | 27.54 |
| 0.304 | . | 0.304 | 16.898 | 0.018 | . | 27.22 |
| 0.441 | . | 0.441 | 7.379 | 0.060 | . | 24.72 |
| 0.848 | . | 0.848 | 6.244 | 0.136 | . | 24.37 |
| 0.322 | 0.006 | 0.328 | 18.881 | 0.017 | 1.51 | 27.50 |
| 0.296 | 0.007 | 0.303 | 19.685 | 0.015 | 5.22 | 27.50 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.281 | 0.006 | 0.288 | 16.101 | 0.018 | 1.86 | 27.98 |
| 0.305 | 0.006 | 0.311 | 16.734 | 0.019 | 2.58 | 27.96 |
| 0.300 | . | 0.300 | 13.683 | 0.022 | . | 27.72 |
| 0.483 | . | 0.483 | 6.202 | 0.078 | . | 24.74 |
| 0.843 | . | 0.843 | 5.824 | 0.145 | . | 24.37 |
| 0.233 | 0.001 | 0.234 | 10.863 | 0.022 | 2.18 | 27.98 |
| 0.222 | 0.001 | 0.222 | 11.053 | 0.020 | 2.09 | 27.97 |
| 0.050 | 0.000 | . | . | 0.002 | . | . |
| 0.177 | 0.009 | 0.185 | 11.267 | 0.016 | 2.37 | 29.41 |
| 0.206 | 0.011 | 0.217 | 14.443 | 0.015 | 2.24 | 29.46 |
| 0.439 | . | 0.439 | 26.926 | 0.016 | . | 28.79 |
| 0.286 | . | 0.286 | 5.328 | 0.054 | . | 24.88 |
| 0.826 | . | 0.826 | 6.116 | 0.135 | . | 24.39 |
| 0.222 | 0.008 | 0.230 | 13.075 | 0.018 | 1.74 | 29.44 |
| 0.216 | 0.009 | 0.225 | 15.223 | 0.015 | 2.14 | 29.45 |
| 0.000 | 0.000 | . | . | 0.002 | . | . |
| 0.193 | 0.007 | 0.200 | 13.524 | 0.015 | 3.34 | 28.83 |
| 0.151 | 0.004 | 0.155 | 9.310 | 0.017 | 3.66 | 28.87 |
| 0.115 | . | 0.115 | 7.176 | 0.016 | . | 28.70 |
| 0.363 | . | 0.363 | 5.029 | 0.072 | . | 24.93 |
| 0.762 | . | 0.762 | 5.354 | 0.142 | . | 24.37 |
| 0.108 | 0.005 | 0.113 | 5.824 | 0.019 | 3.76 | 28.84 |
| 0.116 | 0.005 | 0.121 | 7.193 | 0.017 | 5.81 | 28.84 |
| 0.104 | 0.001 | . | . | 0.000 | . | . |
| 0.288 | 0.007 | 0.296 | 13.279 | 0.022 | 3.26 | 29.65 |
| 0.356 | 0.008 | 0.364 | 26.119 | 0.014 | 3.79 | 29.75 |
| 0.427 | . | 0.427 | 20.604 | 0.021 | . | 28.56 |
| 0.854 | . | 0.854 | 25.539 | 0.033 | . | 26.05 |
| 1.134 | . | 1.134 | 5.891 | 0.193 | . | 24.33 |
| 0.199 | 0.007 | 0.206 | 14.338 | 0.014 | 3.69 | 29.56 |
| 0.223 | 0.007 | 0.231 | 19.053 | 0.012 | 6.88 | 29.68 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.504 | 0.003 | 0.507 | 8.662 | 0.059 | 26.33 | 26.99 |
| 0.450 | 0.003 | 0.454 | 6.878 | 0.066 | 28.64 | 27.07 |
| 0.367 | . | 0.367 | 7.219 | 0.051 | . | 26.87 |
| 0.641 | . | 0.641 | 9.025 | 0.071 | . | 26.55 |

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|---|---|---|---|---|---|---|
| 1.000 | . | 1.000 | 9.435 | 0.106 | . | 26.16 |
| 0.422 | 0.003 | 0.425 | 8.695 | 0.049 | 20.01 | 27.06 |
| 0.454 | 0.003 | 0.457 | 9.149 | 0.050 | 22.13 | 27.08 |
| 0.028 | 0.000 | . | . | 0.000 | . | . |
| 0.598 | 0.000 | 0.598 | 10.995 | 0.054 | 11.59 | 26.34 |
| 0.644 | 0.000 | 0.644 | 11.854 | 0.054 | 13.31 | 26.44 |
| 0.643 | . | 0.643 | 11.465 | 0.056 | . | 26.20 |
| 0.617 | . | 0.617 | 11.088 | 0.056 | . | 26.19 |
| 0.607 | . | 0.607 | 10.549 | 0.058 | . | 26.18 |
| 0.614 | 0.003 | 0.617 | 10.982 | 0.056 | 14.62 | 26.31 |
| 0.657 | 0.001 | 0.658 | 11.257 | 0.058 | 10.50 | 26.31 |
| 0.098 | 0.002 | . | . | 0.000 | . | . |
| 0.496 | 0.007 | 0.503 | 32.115 | 0.016 | 15.06 | 26.26 |
| 0.660 | 0.003 | 0.663 | 29.372 | 0.023 | 17.02 | 26.36 |
| 0.558 | . | 0.558 | 31.850 | 0.018 | . | 26.07 |
| 0.361 | . | 0.361 | 16.541 | 0.022 | . | 26.03 |
| 0.509 | . | 0.509 | 24.820 | 0.021 | . | 25.97 |
| 0.595 | 0.003 | 0.598 | 32.164 | 0.019 | 16.03 | 26.33 |
| 0.666 | 0.002 | 0.668 | 27.497 | 0.024 | 16.68 | 26.30 |
| 0.072 | 0.001 | . | . | 0.000 | . | . |
| 0.366 | 0.003 | 0.370 | 15.802 | 0.023 | 12.66 | 27.30 |
| 0.432 | 0.005 | 0.437 | 17.730 | 0.025 | 15.30 | 27.44 |
| 0.418 | . | 0.418 | 19.776 | 0.021 | . | 27.02 |
| 0.323 | . | 0.323 | 18.071 | 0.018 | . | 26.32 |
| 0.341 | . | 0.341 | 16.925 | 0.020 | . | 26.04 |
| 0.394 | 0.005 | 0.399 | 17.007 | 0.023 | 12.59 | 27.46 |
| 0.433 | 0.004 | 0.438 | 17.622 | 0.025 | 13.10 | 27.46 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.315 | 0.009 | 0.324 | 12.789 | 0.025 | 8.26 | 27.97 |
| 0.346 | 0.000 | 0.346 | 13.402 | 0.026 | 12.15 | 28.04 |
| 0.304 | . | 0.304 | 12.804 | 0.024 | . | 27.63 |
| 0.330 | . | 0.330 | 12.929 | 0.026 | . | 27.35 |
| 0.329 | . | 0.329 | 12.903 | 0.026 | . | 27.01 |
| 0.364 | 0.000 | 0.364 | 13.054 | 0.028 | 13.15 | 28.10 |
| 0.370 | 0.001 | 0.370 | 13.182 | 0.028 | 13.08 | 28.04 |
| 0.032 | 0.002 | . | . | 0.000 | . | . |
| 0.326 | 0.004 | 0.330 | 15.518 | 0.021 | 9.60 | 28.23 |
| 0.260 | 0.005 | 0.265 | 11.304 | 0.023 | 13.13 | 28.35 |
| 0.296 | . | 0.296 | 15.465 | 0.019 | . | 28.01 |
| 0.286 | . | 0.286 | 13.722 | 0.021 | . | 27.98 |
| 0.260 | . | 0.260 | 13.462 | 0.019 | . | 27.90 |
| 0.233 | 0.005 | 0.238 | 11.557 | 0.021 | 12.24 | 28.30 |
| 0.283 | 0.005 | 0.288 | 14.379 | 0.020 | 13.04 | 28.33 |
| 0.063 | 0.000 | . | . | 0.001 | . | . |

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|---|---|---|---|---|---|---|
| 0.307 | 0.000 | 0.307 | 17.825 | 0.017 | 13.59 | 29.12 |
| 0.400 | 0.000 | 0.400 | 22.785 | 0.018 | 12.28 | 29.17 |
| 0.743 | . | 0.743 | 41.119 | 0.018 | . | 28.96 |
| 1.122 | . | 1.122 | 62.952 | 0.018 | . | 28.72 |
| 0.853 | . | 0.853 | 33.543 | 0.025 | . | 28.50 |
| 0.873 | 0.000 | 0.873 | 52.633 | 0.017 | 14.08 | 29.15 |
| 0.761 | 0.000 | 0.761 | 46.864 | 0.016 | 12.96 | 29.18 |
| 0.044 | 0.000 | . | . | 0.000 | . | . |
| 0.314 | 0.004 | 0.318 | 16.604 | 0.019 | 15.64 | 28.67 |
| 0.362 | 0.003 | 0.365 | 14.334 | 0.025 | 17.94 | 28.75 |
| 0.286 | . | 0.288 | 14.692 | 0.020 | . | 28.57 |
| 0.237 | . | 0.239 | 16.479 | 0.015 | . | 28.47 |
| 0.240 | . | 0.240 | 13.917 | 0.017 | . | 28.40 |
| 0.364 | 0.002 | 0.366 | 15.520 | 0.024 | 18.44 | 28.68 |
| 0.340 | 0.002 | 0.342 | 14.821 | 0.023 | 19.01 | 28.77 |
| 0.037 | 0.000 | . | . | 0.003 | . | . |
| 0.356 | 0.013 | 0.369 | 16.473 | 0.022 | 13.99 | 29.40 |
| 0.322 | 0.010 | 0.332 | 15.215 | 0.022 | 13.20 | 29.47 |
| 0.317 | . | 0.326 | 15.704 | 0.021 | . | 29.23 |
| 0.282 | . | 0.290 | 11.923 | 0.024 | . | 28.98 |
| 0.295 | . | 0.295 | 9.827 | 0.030 | . | 28.58 |
| 0.326 | 0.008 | 0.334 | 15.775 | 0.021 | 14.45 | 29.44 |
| 0.389 | 0.008 | 0.396 | 16.910 | 0.023 | 12.79 | 29.48 |
| 0.043 | 0.001 | . | . | 0.000 | . | . |
| 0.316 | 0.046 | 0.361 | 19.963 | 0.018 | 12.14 | 28.32 |
| 0.306 | 0.034 | 0.340 | 17.593 | 0.019 | 13.45 | 28.36 |
| 0.306 | . | 0.306 | 14.302 | 0.021 | . | 28.35 |
| 0.274 | . | 0.274 | 15.095 | 0.018 | . | 28.31 |
| 0.266 | . | 0.266 | 13.799 | 0.019 | . | 28.24 |
| 0.297 | 0.045 | 0.342 | 16.029 | 0.021 | 12.79 | 28.34 |
| 0.292 | 0.046 | 0.338 | 16.197 | 0.021 | 12.65 | 28.35 |
| 0.000 | 0.000 | . | . | 0.000 | . | |
| 0.355 | 0.061 | 0.416 | 24.367 | 0.017 | 11.01 | 25.19 |
| 0.323 | 0.059 | 0.382 | 23.870 | 0.016 | 11.29 | 25.19 |
| 0.530 | . | 0.530 | 28.478 | 0.019 | . | 25.16 |
| 0.165 | . | 0.165 | 8.980 | 0.018 | . | 25.08 |
| 0.234 | . | 0.234 | 12.177 | 0.019 | . | 25.06 |
| 0.227 | 0.058 | 0.286 | 16.361 | 0.017 | 10.44 | 25.16 |
| 0.184 | 0.061 | 0.246 | 14.117 | 0.017 | 9.85 | 25.20 |
| 0.000 | 0.000 | . | . | 0.000 | . | |
| 0.322 | 0.050 | 0.372 | 16.838 | 0.022 | 14.84 | 25.17 |
| 0.242 | 0.049 | 0.291 | 13.103 | 0.022 | 13.91 | 25.24 |
| 0.210 | . | 0.210 | 10.279 | 0.020 | . | 25.13 |
| 0.251 | . | 0.251 | 12.674 | 0.020 | . | 25.09 |

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|---|---|---|---|---|---|---|
| 0.172 | . | 0.172 | 7.993 | 0.022 | . | 25.08 |
| 0.424 | 0.047 | 0.471 | 19.867 | 0.024 | 14.26 | 25.21 |
| 0.355 | 0.048 | 0.404 | 20.473 | 0.020 | 14.44 | 25.24 |
| 0.000 | 0.000 | . | . | 0.000 | . | |
| 0.348 | 0.002 | 0.349 | 16.669 | 0.021 | 19.71 | 25.85 |
| 0.348 | 0.001 | 0.350 | 18.192 | 0.019 | 17.06 | 26.24 |
| 0.322 | . | 0.322 | 16.266 | 0.020 | . | 25.76 |
| 0.228 | . | 0.228 | 11.830 | 0.019 | . | 25.71 |
| 0.279 | . | 0.279 | 10.793 | 0.026 | . | 25.52 |
| 0.307 | 0.006 | 0.313 | 12.198 | 0.026 | 19.72 | 25.86 |
| 0.320 | 0.006 | 0.326 | 13.891 | 0.023 | 19.33 | 25.84 |
| 0.000 | 0.000 | . | . | 0.000 | . | |
| 0.206 | 0.022 | 0.228 | 9.330 | 0.024 | 18.47 | 26.79 |
| 0.235 | 0.022 | 0.257 | 9.999 | 0.026 | 16.97 | 26.76 |
| 0.157 | . | 0.185 | 7.910 | 0.023 | . | 26.58 |
| 0.115 | . | 0.139 | 6.896 | 0.020 | . | 26.19 |
| 0.292 | . | 0.292 | 5.609 | 0.052 | . | . |
| 0.213 | 0.028 | 0.241 | 10.237 | 0.024 | 13.88 | 26.81 |
| 0.183 | 0.024 | 0.207 | 9.352 | 0.022 | 13.67 | 26.70 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.351 | 0.024 | 0.375 | 20.100 | 0.019 | 1.25 | 24.55 |
| 0.320 | 0.033 | 0.352 | 16.262 | 0.022 | 1.74 | 24.70 |
| 0.191 | . | 0.191 | 18.501 | 0.010 | . | 24.32 |
| 0.156 | . | 0.156 | 15.148 | 0.010 | . | 24.28 |
| 0.144 | . | 0.144 | 15.131 | 0.009 | . | 24.28 |
| 0.270 | 0.030 | 0.301 | 18.757 | 0.016 | 1.41 | 25.02 |
| 0.272 | 0.034 | 0.306 | 21.226 | 0.014 | 1.11 | 24.99 |
| 0.003 | 0.000 | . | . | 0.000 | . | . |
| 0.164 | 0.000 | 0.164 | 19.652 | 0.008 | 1.50 | 24.63 |
| 0.224 | 0.000 | 0.224 | 19.825 | 0.011 | 2.45 | 24.64 |
| 0.189 | . | 0.189 | 15.357 | 0.012 | . | 24.47 |
| 0.156 | . | 0.156 | 21.164 | 0.007 | . | 24.38 |
| 0.160 | . | 0.160 | 25.307 | 0.006 | . | 24.33 |
| 0.221 | 0.000 | 0.221 | 24.952 | 0.009 | 2.01 | 24.67 |
| 0.214 | 0.000 | 0.214 | 23.111 | 0.009 | 2.07 | 24.71 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.345 | 0.005 | 0.350 | 15.753 | 0.022 | 4.78 | 25.64 |
| 0.269 | 0.000 | 0.269 | 14.574 | 0.018 | 2.88 | 25.55 |
| 0.194 | . | 0.194 | 14.916 | 0.013 | . | 24.91 |
| 0.204 | . | 0.204 | 26.686 | 0.008 | . | 24.31 |
| 0.386 | . | 0.386 | 62.278 | 0.006 | . | 24.22 |
| 0.281 | 0.002 | 0.283 | 18.878 | 0.015 | 2.94 | 25.54 |
| 0.343 | 0.000 | 0.344 | 23.554 | 0.015 | 1.58 | 25.56 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.419 | 0.002 | 0.421 | 81.373 | 0.005 | 1.56 | 27.06 |
| 0.238 | 0.003 | 0.241 | 58.408 | 0.004 | 1.74 | 27.00 |
| 0.255 | . | 0.255 | 50.158 | 0.005 | . | 26.67 |
| 0.262 | . | 0.262 | 33.273 | 0.008 | . | 24.61 |
| 0.297 | . | 0.297 | 1118.746 | 0.000 | . | 24.23 |
| 0.242 | 0.000 | 0.242 | 44.659 | 0.005 | 1.69 | 27.07 |
| 0.264 | 0.000 | 0.264 | 66.353 | 0.004 | 1.69 | 27.04 |
| 0.000 | 0.000 | . | . | 0.004 | . | . |
| 0.212 | 0.003 | 0.215 | 23.143 | 0.009 | 4.43 | 27.13 |
| 0.216 | 0.004 | 0.220 | 24.113 | 0.009 | 4.97 | 27.02 |
| 0.211 | . | 0.211 | 26.088 | 0.008 | . | 26.20 |
| 0.120 | . | 0.120 | 9.451 | 0.013 | . | 24.76 |
| 0.160 | . | 0.160 | 31.588 | 0.005 | . | 24.27 |
| 0.192 | 0.002 | 0.194 | 25.984 | 0.007 | 4.51 | 27.21 |
| 0.220 | 0.001 | 0.222 | 35.712 | 0.006 | 5.00 | 26.72 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.251 | 0.009 | 0.260 | 50.147 | 0.005 | 1.77 | 28.58 |
| 0.114 | 0.005 | 0.119 | 25.021 | 0.005 | 1.57 | 28.53 |
| 0.240 | . | 0.240 | 75.537 | 0.003 | . | 28.39 |
| 0.220 | . | 0.220 | 59.764 | 0.004 | . | 26.34 |
| 0.118 | . | 0.118 | 23.042 | 0.005 | . | 24.54 |
| 0.353 | 0.008 | 0.362 | 71.066 | 0.005 | 1.52 | 28.56 |
| 0.356 | 0.009 | 0.365 | 65.997 | 0.006 | 1.44 | 28.57 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |
| 0.134 | 0.003 | 0.137 | 16.812 | 0.008 | 2.04 | 28.06 |
| 0.135 | 0.007 | 0.142 | 15.891 | 0.009 | 1.94 | 28.10 |
| 0.133 | . | 0.133 | 17.908 | 0.007 | . | 27.74 |
| 0.082 | . | 0.082 | 5.842 | 0.014 | . | 26.54 |
| 0.045 | . | 0.045 | 4.955 | 0.009 | . | 24.61 |
| 0.036 | 0.007 | 0.043 | 5.876 | 0.007 | 3.33 | 28.19 |
| 0.029 | 0.007 | 0.036 | 4.042 | 0.009 | 1.91 | 28.18 |
| 0.000 | -0.001 | . | . | 0.000 | . | . |
| 0.378 | 0.006 | 0.384 | 22.408 | 0.017 | 4.43 | 27.92 |
| 0.337 | 0.004 | 0.341 | 25.155 | 0.014 | 3.00 | 27.87 |
| 0.348 | . | 0.348 | 28.681 | 0.012 | . | 27.33 |
| 0.299 | . | 0.299 | 13.131 | 0.023 | . | 26.15 |
| 0.309 | . | 0.309 | 20.434 | 0.015 | . | 25.09 |
| 0.336 | 0.006 | 0.342 | 24.380 | 0.014 | 6.68 | 27.83 |
| 0.320 | 0.006 | 0.325 | 27.878 | 0.012 | 4.75 | 27.89 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.402 | 0.000 | 0.402 | 40.625 | 0.010 | 8.12 | 27.82 |
| 0.337 | 0.000 | 0.337 | 48.344 | 0.007 | 7.75 | 27.88 |
| 0.347 | . | 0.347 | 41.062 | 0.008 | . | 27.51 |
| 0.256 | . | 0.256 | 42.113 | 0.006 | . | 26.62 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.237 | . | 0.237 | 33.009 | 0.007 | . | 25.74 |
| 0.337 | 0.008 | 0.345 | 34.180 | 0.010 | 7.86 | 27.80 |
| 0.301 | 0.008 | 0.309 | 32.100 | 0.010 | 8.19 | 27.75 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.127 | 0.004 | 0.131 | 14.720 | 0.009 | 5.21 | 27.59 |
| 0.185 | 0.001 | 0.186 | 16.452 | 0.011 | 4.91 | 27.70 |
| 0.181 | . | 0.181 | 15.431 | 0.012 | . | 27.19 |
| 0.125 | . | 0.125 | 13.091 | 0.010 | . | 25.99 |
| 0.142 | . | 0.142 | 8.057 | 0.018 | . | 25.47 |
| 0.177 | 0.000 | 0.177 | 16.062 | 0.011 | 5.35 | 27.69 |
| 0.185 | 0.000 | 0.185 | 15.933 | 0.012 | 5.38 | 27.79 |
| 0.012 | 0.000 | . | . | 0.001 | . | . |
| 0.138 | 0.000 | 0.138 | 10.650 | 0.013 | 6.42 | 26.77 |
| 0.137 | 0.000 | 0.137 | 9.058 | 0.015 | 6.21 | 26.83 |
| 0.017 | . | 0.017 | 1.237 | 0.014 | . | 26.64 |
| 0.001 | . | 0.001 | 0.158 | 0.009 | . | 25.72 |
| 0.277 | . | 0.277 | 25.857 | 0.011 | . | 25.36 |
| 0.456 | 0.000 | 0.456 | 35.191 | 0.013 | 9.11 | 26.85 |
| 0.417 | 0.000 | 0.417 | 34.129 | 0.012 | 9.15 | 26.87 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.176 | 0.065 | 0.240 | 23.813 | 0.010 | 7.44 | 24.61 |
| 0.141 | 0.067 | 0.208 | 23.287 | 0.009 | 5.77 | 24.67 |
| 0.224 | . | 0.224 | 22.195 | 0.010 | . | 24.44 |
| 0.117 | . | 0.117 | 11.927 | 0.010 | . | 24.43 |
| 0.727 | . | 0.727 | 65.725 | 0.011 | . | 24.43 |
| 0.197 | 0.069 | 0.266 | 27.333 | 0.010 | 4.63 | 24.63 |
| 0.195 | 0.069 | 0.264 | 25.645 | 0.010 | 4.61 | 24.63 |
| 0.081 | 0.000 | . | . | 0.001 | . | . |
| 0.155 | 0.094 | 0.249 | 21.392 | 0.012 | 3.99 | 24.23 |
| 0.092 | 0.091 | 0.184 | 15.625 | 0.012 | 3.92 | 24.28 |
| 0.069 | . | 0.069 | 5.678 | 0.012 | . | 24.17 |
| 0.055 | . | 0.055 | 4.123 | 0.013 | . | 24.16 |
| 0.102 | . | 0.102 | 8.125 | 0.013 | . | 24.16 |
| 0.329 | 0.090 | 0.419 | 34.540 | 0.012 | 4.67 | 24.22 |
| 0.365 | 0.085 | 0.449 | 45.903 | 0.010 | 4.06 | 24.24 |
| 0.000 | 0.000 | . | . | 0.003 | . | . |
| 0.166 | 0.078 | 0.245 | 20.554 | 0.012 | 9.20 | 24.36 |
| 0.310 | 0.083 | 0.393 | 32.615 | 0.012 | 8.89 | 24.42 |
| 0.235 | . | 0.235 | 16.131 | 0.015 | . | 24.23 |
| 0.256 | . | 0.256 | 28.072 | 0.009 | . | 24.10 |
| 0.266 | . | 0.266 | 28.308 | 0.009 | . | 24.10 |
| 0.343 | 0.083 | 0.426 | 41.514 | 0.010 | 10.65 | 24.39 |
| 0.340 | 0.086 | 0.426 | 41.945 | 0.010 | 10.43 | 24.40 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |

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|---|---|---|---|---|---|---|
| 0.077 | 0.012 | 0.089 | 7.242 | 0.012 | 6.79 | 24.70 |
| 0.191 | 0.005 | 0.196 | 17.866 | 0.011 | 7.04 | 24.67 |
| 0.214 | . | 0.214 | 23.083 | 0.009 | . | 24.52 |
| 0.152 | . | 0.152 | 17.182 | 0.009 | . | 24.45 |
| 0.191 | . | 0.191 | 25.793 | 0.007 | . | 24.19 |
| 0.168 | 0.006 | 0.173 | 16.898 | 0.010 | 6.53 | 24.65 |
| 0.196 | 0.006 | 0.202 | 20.542 | 0.010 | 6.61 | 24.66 |
| 0.099 | 0.001 | . | . | 0.000 | . | . |
| 0.223 | 0.003 | 0.226 | 27.238 | 0.008 | 3.36 | 27.36 |
| 0.256 | 0.002 | 0.258 | 35.204 | 0.007 | 4.69 | 27.59 |
| 0.253 | . | 0.253 | 23.468 | 0.011 | . | 26.82 |
| 0.170 | . | 0.170 | 17.741 | 0.010 | . | 25.21 |
| 0.211 | . | 0.211 | 20.227 | 0.010 | . | 24.75 |
| 0.177 | 0.002 | 0.179 | 22.872 | 0.008 | 4.06 | 27.61 |
| 0.193 | 0.001 | 0.194 | 26.160 | 0.007 | 3.65 | 27.66 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 0.207 | 0.000 | 0.207 | 17.053 | 0.012 | 4.29 | 27.41 |
| 0.317 | 0.000 | 0.317 | 33.358 | 0.010 | 3.98 | 27.55 |
| 0.293 | . | 0.293 | 31.687 | 0.009 | . | 26.93 |
| 0.295 | . | 0.295 | 17.578 | 0.017 | . | 25.71 |
| 0.711 | . | 0.711 | 61.887 | 0.011 | . | 25.14 |
| 0.175 | 0.000 | 0.175 | 16.292 | 0.011 | 4.72 | 27.66 |
| 0.211 | 0.000 | 0.211 | 19.618 | 0.011 | 4.62 | 27.63 |
| 0.000 | 0.003 | . | . | 0.000 | . | . |
| 0.254 | 0.005 | 0.260 | 40.400 | 0.006 | 11.64 | 27.19 |
| 0.247 | 0.005 | 0.253 | 36.873 | 0.007 | 10.90 | 27.39 |
| 0.165 | . | 0.165 | 25.432 | 0.006 | . | 26.90 |
| 0.374 | . | 0.374 | 13.984 | 0.027 | . | 25.94 |
| 0.299 | . | 0.299 | 11.730 | 0.025 | . | 25.46 |
| 0.266 | 0.006 | 0.272 | 32.987 | 0.008 | 6.18 | 27.08 |
| 0.231 | 0.006 | 0.236 | 31.833 | 0.007 | 9.44 | 27.12 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.236 | 0.000 | 0.236 | 28.021 | 0.008 | 9.05 | 27.94 |
| 0.267 | 0.000 | 0.267 | 34.385 | 0.008 | 7.66 | 27.93 |
| 0.284 | . | 0.284 | 40.184 | 0.007 | . | 27.63 |
| 0.192 | . | 0.192 | 33.677 | 0.006 | . | 26.11 |
| 0.105 | . | 0.105 | 17.517 | 0.006 | . | 25.67 |
| 0.154 | 0.000 | 0.154 | 17.587 | 0.009 | 8.02 | 27.99 |
| 0.172 | 0.000 | 0.172 | 23.234 | 0.007 | 8.10 | 27.95 |
| 0.042 | 0.000 | . | . | 0.003 | . | . |
| 0.191 | 0.002 | 0.194 | 17.198 | 0.011 | 5.37 | 29.10 |
| 0.210 | 0.001 | 0.210 | 19.167 | 0.011 | 4.75 | 29.10 |
| 0.198 | . | 0.201 | 20.049 | 0.010 | . | 28.70 |
| 0.156 | . | 0.159 | 15.074 | 0.011 | . | 26.27 |

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|---|---|---|---|---|---|---|
| 0.163 | . | 0.163 | 23.728 | 0.007 | . | 25.75 |
| 0.206 | 0.003 | 0.209 | 21.027 | 0.010 | 5.08 | 29.06 |
| 0.205 | 0.003 | 0.208 | 23.808 | 0.009 | 4.80 | 29.05 |
| 0.085 | 0.002 | . | . | 0.000 | . | . |
| 0.226 | 0.008 | 0.234 | 38.475 | 0.006 | 6.44 | 28.32 |
| 0.209 | 0.006 | 0.215 | 44.032 | 0.005 | 6.63 | 28.54 |
| 0.161 | . | 0.161 | 22.106 | 0.007 | . | 27.90 |
| 0.165 | . | 0.165 | 20.970 | 0.008 | . | 26.39 |
| 0.137 | . | 0.137 | 23.838 | 0.006 | . | 25.76 |
| 0.227 | 0.006 | 0.233 | 41.415 | 0.006 | 6.55 | 28.50 |
| 0.221 | 0.006 | 0.227 | 35.679 | 0.006 | 6.23 | 28.38 |
| 0.000 | 0.001 | . | . | 0.000 | . | |
| 0.184 | 0.004 | 0.188 | 14.431 | 0.013 | 15.03 | 24.28 |
| 0.159 | 0.004 | 0.164 | 11.258 | 0.015 | 15.92 | 24.72 |
| 0.135 | . | 0.135 | 9.727 | 0.014 | . | 24.51 |
| 0.114 | . | 0.114 | 8.309 | 0.014 | . | 24.45 |
| 0.102 | . | 0.102 | 6.234 | 0.016 | . | 24.45 |
| 0.259 | 0.005 | 0.264 | 14.624 | 0.018 | 20.47 | 24.92 |
| 0.256 | 0.004 | 0.260 | 12.597 | 0.021 | 20.37 | 24.75 |
| 0.000 | 0.000 | . | . | 0.000 | . | |
| 0.152 | 0.015 | 0.167 | 11.596 | 0.014 | 12.05 | 24.76 |
| 0.148 | 0.014 | 0.162 | 9.910 | 0.016 | 16.36 | 24.84 |
| 0.026 | . | 0.026 | 2.361 | 0.011 | . | 24.57 |
| 0.034 | . | 0.034 | 2.839 | 0.012 | . | 24.47 |
| 0.089 | . | 0.089 | 7.575 | 0.012 | . | 24.44 |
| 0.066 | 0.014 | 0.080 | 5.957 | 0.014 | 12.41 | 24.83 |
| 0.069 | 0.015 | 0.084 | 5.263 | 0.016 | 11.90 | 24.83 |
| 0.000 | 0.001 | . | . | 0.000 | . | |
| 0.078 | 0.006 | 0.084 | 8.753 | 0.010 | 4.73 | 25.70 |
| 0.067 | 0.006 | 0.073 | 6.273 | 0.012 | 4.92 | 25.72 |
| 0.063 | . | 0.063 | 9.515 | 0.007 | . | 25.42 |
| 0.009 | . | 0.009 | 1.488 | 0.006 | . | 24.65 |
| 0.032 | . | 0.032 | 3.718 | 0.009 | . | 24.51 |
| 0.000 | 0.007 | 0.007 | 0.710 | 0.010 | 4.99 | 25.74 |
| 0.000 | 0.007 | 0.007 | 0.607 | 0.012 | 4.78 | 25.73 |
| 0.000 | 0.001 | . | . | 0.000 | . | |
| 0.000 | 0.020 | 0.020 | 2.484 | 0.008 | 4.27 | 26.49 |
| 0.006 | 0.019 | 0.025 | 3.534 | 0.007 | 3.90 | 26.42 |
| 0.000 | . | 0.000 | 0.000 | 0.004 | . | 25.85 |
| 0.000 | . | 0.000 | 0.000 | 0.006 | . | 25.31 |
| 0.000 | . | 0.000 | 0.000 | 0.011 | . | 24.56 |
| 0.000 | 0.018 | 0.018 | 2.613 | 0.007 | 4.34 | 26.57 |
| 0.000 | 0.021 | 0.021 | 2.568 | 0.008 | 4.11 | 26.54 |
| 0.023 | 0.003 | . | . | 0.000 | . | . |

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|---|---|---|---|---|---|---|
| 0.275 | 0.006 | 0.281 | 37.787 | 0.007 | 3.71 | 26.33 |
| 0.320 | 0.005 | 0.325 | 32.751 | 0.010 | 2.53 | 26.40 |
| 0.342 | . | 0.342 | 33.811 | 0.010 | . | 25.93 |
| 0.355 | . | 0.355 | 34.144 | 0.010 | . | 25.04 |
| 0.490 | . | 0.490 | 20.512 | 0.024 | . | 24.70 |
| 0.298 | 0.006 | 0.304 | 28.934 | 0.011 | 3.36 | 26.44 |
| 0.334 | 0.006 | 0.340 | 36.337 | 0.009 | 3.44 | 26.45 |
| 0.019 | 0.000 | . | . | 0.001 | . | . |
| 0.177 | 0.007 | 0.184 | 14.980 | 0.012 | 2.68 | 26.60 |
| 0.327 | 0.007 | 0.334 | 33.434 | 0.010 | 2.46 | 26.80 |
| 0.336 | . | 0.336 | 27.773 | 0.012 | . | 26.03 |
| 0.497 | . | 0.497 | 38.292 | 0.013 | . | 25.15 |
| 0.650 | . | 0.650 | 26.202 | 0.025 | . | 24.79 |
| 0.287 | 0.007 | 0.294 | 31.438 | 0.009 | 2.81 | 26.65 |
| 0.329 | 0.007 | 0.336 | 34.957 | 0.010 | 3.11 | 26.69 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.348 | 0.002 | 0.350 | 29.176 | 0.012 | 1.57 | 26.00 |
| 0.297 | 0.002 | 0.299 | 25.269 | 0.012 | 1.93 | 26.04 |
| 0.382 | . | 0.382 | 28.165 | 0.014 | . | 25.36 |
| 0.281 | . | 0.281 | 23.566 | 0.012 | . | 24.43 |
| 0.307 | . | 0.307 | 15.085 | 0.020 | . | 24.04 |
| 0.336 | 0.000 | 0.336 | 22.566 | 0.015 | 1.40 | 26.01 |
| 0.315 | 0.000 | 0.315 | 22.145 | 0.014 | 2.03 | 26.00 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.249 | 0.001 | 0.250 | 19.517 | 0.013 | 5.89 | 27.87 |
| 0.284 | 0.002 | 0.286 | 20.560 | 0.014 | 3.39 | 27.90 |
| 0.231 | . | 0.231 | 15.175 | 0.015 | . | 26.49 |
| 0.222 | . | 0.222 | 15.792 | 0.014 | . | 24.71 |
| 0.314 | . | 0.314 | 19.501 | 0.016 | . | 24.23 |
| 0.271 | 0.000 | 0.271 | 20.276 | 0.013 | 2.97 | 27.90 |
| 0.291 | 0.000 | 0.291 | 22.120 | 0.013 | 2.26 | 28.08 |
| 0.000 | 0.000 | . | . | 0.002 | . | . |
| 0.431 | 0.000 | 0.431 | 20.074 | 0.021 | 7.15 | 28.55 |
| 0.360 | 0.003 | 0.363 | 16.729 | 0.022 | 1.53 | 28.64 |
| 0.334 | . | 0.334 | 13.053 | 0.026 | . | 27.30 |
| 0.186 | . | 0.186 | 12.977 | 0.014 | . | 24.96 |
| 0.455 | . | 0.455 | 19.518 | 0.023 | . | 24.41 |
| 0.182 | 0.000 | 0.182 | 8.649 | 0.021 | 6.13 | 28.65 |
| 0.184 | 0.000 | 0.184 | 8.146 | 0.023 | 5.98 | 28.65 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.344 | 0.005 | 0.349 | 16.662 | 0.021 | 6.48 | 30.09 |
| 0.326 | 0.006 | 0.332 | 15.680 | 0.021 | 9.07 | 30.10 |
| 0.189 | . | 0.189 | 10.514 | 0.018 | . | 28.25 |
| 0.121 | . | 0.121 | 6.669 | 0.018 | . | 25.10 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.175 | . | 0.175 | 5.593 | 0.031 | . | 24.51 |
| 0.303 | 0.007 | 0.310 | 13.766 | 0.022 | 9.16 | 30.09 |
| 0.306 | 0.007 | 0.313 | 14.035 | 0.022 | 9.29 | 30.09 |
| 0.000 | 0.001 | . | . | 0.000 | . | . |
| 0.186 | 0.003 | 0.189 | 15.802 | 0.012 | 3.80 | 28.88 |
| 0.140 | 0.009 | 0.149 | 13.197 | 0.011 | 4.59 | 28.96 |
| 0.180 | . | 0.188 | 16.050 | 0.012 | . | 28.68 |
| 0.301 | . | 0.309 | 15.929 | 0.019 | . | 25.83 |
| 0.929 | . | 0.929 | 34.723 | 0.027 | . | 24.74 |
| 0.164 | 0.008 | 0.172 | 14.663 | 0.012 | 3.90 | 28.95 |
| 0.184 | 0.008 | 0.191 | 18.570 | 0.010 | 3.89 | 28.95 |
| 0.000 | 0.000 | . | . | 0.006 | . | . |
| 0.103 | 0.000 | 0.103 | 10.499 | 0.010 | 3.37 | 28.99 |
| 0.182 | 0.004 | 0.186 | 12.267 | 0.015 | 3.28 | 29.40 |
| 0.143 | . | 0.143 | 9.889 | 0.014 | . | 28.91 |
| 0.341 | . | 0.341 | 18.094 | 0.019 | . | 27.16 |
| 1.127 | . | 1.127 | 26.488 | 0.043 | . | 24.77 |
| 0.176 | 0.000 | 0.176 | 13.420 | 0.013 | 3.10 | 29.02 |
| 0.153 | 0.000 | 0.153 | 13.427 | 0.011 | 2.58 | 29.01 |
| 0.111 | 0.000 | . | . | 0.000 | . | . |
| 0.360 | 0.003 | 0.364 | 33.955 | 0.011 | 9.31 | 28.85 |
| 0.386 | 0.004 | 0.390 | 36.361 | 0.011 | 8.47 | 28.95 |
| 0.436 | . | 0.436 | 40.296 | 0.011 | . | 28.35 |
| 0.635 | . | 0.635 | 22.356 | 0.028 | . | 26.49 |
| 1.297 | . | 1.297 | 27.910 | 0.046 | . | 25.33 |
| 0.294 | 0.000 | 0.294 | 27.779 | 0.011 | 8.90 | 28.93 |
| 0.275 | 0.004 | 0.278 | 27.180 | 0.010 | 8.71 | 28.91 |
| 0.000 | 0.002 | . | . | 0.000 | . | . |
| 0.508 | 0.005 | 0.514 | 60.681 | 0.008 | 5.45 | 28.30 |
| 0.407 | 0.003 | 0.410 | 46.324 | 0.009 | 6.05 | 28.28 |
| 0.290 | . | 0.290 | 29.725 | 0.010 | . | 27.98 |
| 0.487 | . | 0.487 | 40.695 | 0.012 | . | 26.23 |
| 1.037 | . | 1.037 | 41.715 | 0.025 | . | 25.57 |
| 0.439 | 0.002 | 0.440 | 37.147 | 0.012 | 6.09 | 28.29 |
| 0.385 | 0.001 | 0.386 | 36.762 | 0.010 | 6.17 | 28.28 |
| 0.000 | 0.000 | . | . | 0.001 | . | . |
| 0.284 | 0.001 | 0.285 | 16.676 | 0.017 | 6.76 | 27.74 |
| 0.150 | 0.002 | 0.152 | 8.142 | 0.019 | 6.69 | 27.77 |
| 0.347 | . | 0.347 | 16.876 | 0.021 | . | 26.99 |
| 0.335 | . | 0.335 | 15.221 | 0.022 | . | 25.79 |
| 0.598 | . | 0.598 | 18.438 | 0.032 | . | 25.31 |
| 0.283 | 0.001 | 0.284 | 15.787 | 0.018 | 8.11 | 27.77 |
| 0.293 | 0.001 | 0.294 | 15.069 | 0.019 | 8.01 | 27.78 |
| 0.025 | 0.000 | . | . | 0.005 | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.088 | 0.009 | 0.097 | 8.190 | 0.012 | 13.04 | 25.73 |
| 0.064 | 0.006 | 0.070 | 6.110 | 0.012 | 13.03 | 25.70 |
| 0.090 | . | 0.090 | 8.790 | 0.010 | . | 25.27 |
| 0.065 | . | 0.065 | 5.330 | 0.012 | . | 24.87 |
| 0.088 | . | 0.088 | 6.423 | 0.014 | . | 24.72 |
| 0.098 | 0.006 | 0.104 | 11.250 | 0.009 | 12.91 | 25.70 |
| 0.083 | 0.006 | 0.089 | 8.682 | 0.010 | 12.38 | 25.70 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.414 | 0.007 | 0.420 | 67.606 | 0.006 | 11.21 | 25.47 |
| 0.398 | 0.008 | 0.405 | 55.712 | 0.007 | 11.85 | 25.53 |
| 0.308 | . | 0.308 | 35.421 | 0.009 | . | 25.24 |
| 0.384 | . | 0.384 | 34.806 | 0.011 | . | 24.95 |
| 0.507 | . | 0.507 | 28.372 | 0.018 | . | 24.84 |
| 0.123 | 0.000 | 0.123 | 15.451 | 0.008 | 12.22 | 25.47 |
| 0.116 | 0.000 | 0.116 | 18.201 | 0.006 | 10.84 | 25.47 |
| 0.040 | 0.000 | . | . | 0.000 | . | . |
| 0.339 | 0.022 | 0.361 | 34.827 | 0.010 | 8.45 | 26.07 |
| 0.296 | 0.022 | 0.318 | 34.919 | 0.009 | 7.92 | 26.08 |
| 0.599 | . | 0.599 | 62.185 | 0.010 | . | 25.95 |
| 0.558 | . | 0.558 | 35.965 | 0.016 | . | 25.03 |
| 0.551 | . | 0.551 | 30.713 | 0.018 | . | 24.92 |
| 0.359 | 0.000 | 0.359 | 35.382 | 0.010 | 8.29 | 26.08 |
| 0.397 | 0.000 | 0.397 | 41.884 | 0.009 | 8.06 | 26.07 |
| 0.047 | 0.001 | . | . | -0.001 | . | . |
| 0.273 | 0.007 | 0.280 | 46.632 | 0.006 | 7.16 | 27.88 |
| 0.175 | 0.007 | 0.182 | 27.440 | 0.007 | 6.97 | 27.92 |
| 0.619 | . | 0.619 | 58.076 | 0.011 | . | 26.97 |
| 1.016 | . | 1.016 | 77.558 | 0.013 | . | 25.59 |
| 0.667 | . | 0.667 | 39.684 | 0.017 | . | 25.28 |
| 0.250 | 0.007 | 0.256 | 31.184 | 0.008 | 7.34 | 27.83 |
| 0.309 | 0.006 | 0.315 | 42.376 | 0.007 | 7.48 | 27.84 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.341 | 0.002 | 0.343 | 14.480 | 0.024 | 12.42 | 27.74 |
| 0.284 | 0.002 | 0.285 | 12.766 | 0.022 | 11.28 | 27.73 |
| 0.256 | . | 0.256 | 14.009 | 0.018 | . | 26.12 |
| 0.200 | . | 0.200 | 4.678 | 0.043 | . | 24.76 |
| 0.225 | . | 0.225 | 7.437 | 0.030 | . | 24.44 |
| 0.307 | 0.002 | 0.309 | 13.673 | 0.023 | 8.24 | 27.65 |
| 0.365 | 0.004 | 0.368 | 17.445 | 0.021 | 7.89 | 27.65 |
| 0.059 | 0.000 | . | . | 0.000 | . | . |
| 0.286 | 0.000 | 0.286 | 26.378 | 0.011 | 8.44 | 28.67 |
| 0.273 | 0.000 | 0.273 | 26.890 | 0.010 | 6.49 | 28.72 |
| 0.168 | . | 0.168 | 13.542 | 0.012 | . | 28.26 |
| 0.195 | . | 0.195 | 32.973 | 0.006 | . | 25.25 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.489 | . | 0.489 | 53.950 | 0.009 | . | 24.73 |
| 0.238 | 0.000 | 0.238 | 20.821 | 0.011 | 8.15 | 28.65 |
| 0.260 | 0.000 | 0.260 | 24.110 | 0.011 | 7.71 | 28.66 |
| 0.000 | 0.000 | . | . | 0.000 | . | . |
| 0.183 | 0.006 | 0.189 | 16.833 | 0.011 | 7.00 | 28.20 |
| 0.183 | 0.006 | 0.188 | 17.997 | 0.010 | 6.27 | 28.23 |
| 0.265 | . | 0.265 | 22.718 | 0.012 | . | 27.92 |
| 0.250 | . | 0.250 | 27.408 | 0.009 | . | 25.41 |
| 0.523 | . | 0.523 | 31.953 | 0.016 | . | 24.79 |
| 0.527 | 0.006 | 0.533 | 46.062 | 0.012 | 5.62 | 28.18 |
| 0.599 | 0.005 | 0.604 | 54.841 | 0.011 | 6.18 | 28.20 |
| 0.000 | 0.002 | . | . | 0.000 | . | . |
| 0.206 | 0.005 | 0.211 | 38.993 | 0.005 | 5.40 | 29.40 |
| 0.288 | 0.005 | 0.293 | 57.082 | 0.005 | 4.62 | 29.53 |
| 0.384 | . | 0.384 | 65.632 | 0.006 | . | 29.41 |
| 0.413 | . | 0.413 | 31.224 | 0.013 | . | 27.14 |
| 1.040 | . | 1.040 | 81.904 | 0.013 | . | 25.04 |
| 0.237 | 0.008 | 0.244 | 44.458 | 0.005 | 4.39 | 29.50 |
| 0.228 | 0.007 | 0.235 | 45.203 | 0.005 | 4.34 | 29.49 |
| 0.034 | 0.000 | . | . | 0.000 | . | . |
| 0.209 | 0.011 | 0.220 | 51.592 | 0.004 | 4.54 | 29.15 |
| 0.211 | 0.011 | 0.222 | 47.949 | 0.005 | 4.85 | 29.21 |
| 0.215 | . | 0.215 | 35.296 | 0.006 | . | 28.83 |
| 0.393 | . | 0.393 | 26.344 | 0.015 | . | 27.47 |
| 1.359 | . | 1.359 | 76.726 | 0.018 | . | 25.24 |
| 0.203 | 0.012 | 0.215 | 37.757 | 0.006 | 4.63 | 29.14 |
| 0.183 | 0.014 | 0.197 | 35.586 | 0.006 | 4.27 | 29.15 |
| 0.069 | 0.000 | . | . | 0.000 | . | |
| 0.207 | 0.005 | 0.212 | 34.584 | 0.006 | 13.89 | 25.70 |
| 0.271 | 0.004 | 0.275 | 46.011 | 0.006 | 12.86 | 25.74 |
| 0.282 | . | 0.282 | 43.043 | 0.007 | . | 25.54 |
| 0.267 | . | 0.267 | 30.544 | 0.009 | . | 24.97 |
| 0.321 | . | 0.321 | 23.127 | 0.014 | . | 24.89 |
| 0.156 | 0.005 | 0.160 | 33.944 | 0.005 | 13.03 | 25.72 |
| 0.147 | 0.004 | 0.151 | 24.737 | 0.006 | 13.71 | 25.71 |
| 0.000 | 0.000 | . | . | 0.006 | . | |
| 0.192 | 0.004 | 0.196 | 16.336 | 0.012 | 10.98 | 25.89 |
| 0.278 | 0.003 | 0.282 | 23.937 | 0.012 | 10.61 | 25.92 |
| 0.300 | . | 0.300 | 32.696 | 0.009 | . | 25.70 |
| 0.443 | . | 0.443 | 29.388 | 0.015 | . | 25.16 |
| 0.521 | . | 0.521 | 35.418 | 0.015 | . | 25.02 |
| 0.302 | 0.003 | 0.305 | 30.538 | 0.010 | 9.76 | 25.90 |
| 0.253 | 0.003 | 0.256 | 27.656 | 0.009 | 9.75 | 25.93 |
| 0.000 | 0.000 | . | . | 0.000 | . | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.212 | 0.008 | 0.220 | 40.554 | 0.005 | 7.18 | 26.97 |
| 0.234 | 0.009 | 0.243 | 42.348 | 0.006 | 7.06 | 27.06 |
| 0.243 | . | 0.251 | 44.214 | 0.006 | . | 26.16 |
| 0.661 | . | 0.668 | 54.607 | 0.012 | . | 25.36 |
| 0.254 | 0.007 | 0.255 | 43.414 | 0.006 | 7.68 | 26.86 |
| 0.272 | 0.007 | 0.279 | 54.709 | 0.005 | 7.90 | 27.04 |
| 0.009 | 0.000 | . | . | 0.000 | . | |
| 0.254 | 0.007 | 0.254 | 37.415 | 0.007 | 12.89 | 27.27 |
| 0.331 | 0.004 | 0.331 | 44.557 | 0.007 | 14.03 | 27.37 |
| 0.274 | . | 0.274 | 28.067 | 0.010 | . | 26.70 |
| 0.653 | . | 0.656 | 53.095 | 0.012 | . | 25.56 |
| 0.784 | . | 0.787 | 38.142 | 0.021 | . | 25.44 |
| 0.113 | 0.003 | 0.113 | 11.852 | 0.010 | 11.70 | 27.30 |
| 0.134 | 0.003 | 0.134 | 19.732 | 0.007 | 11.84 | 27.31 |
| 0.000 | 0.003 | 0.003 | . | 0.000 | . | . |
| 0.530 | 0.017 | 0.547 | 7.972 | 0.069 | 39.18 | 28.64 |
| 0.684 | 0.016 | 0.701 | 8.504 | 0.082 | 46.23 | 28.92 |
| 0.388 | . | 0.404 | 4.810 | 0.084 | . | 27.45 |
| 0.833 | . | 0.848 | 5.059 | 0.168 | . | 24.98 |
| 2.130 | . | 2.130 | 6.011 | 0.354 | . | 24.18 |
| 0.859 | 0.016 | 0.875 | 7.159 | 0.122 | 67.79 | 28.88 |
| 0.786 | 0.015 | 0.801 | 7.010 | 0.114 | 49.15 | 28.96 |
| 0.089 | 0.001 | 0.089 | . | 0.000 | . | . |
| 0.969 | 0.017 | 0.969 | 38.304 | 0.025 | 41.47 | 27.39 |
| 0.786 | 0.017 | 0.803 | 34.661 | 0.023 | 27.74 | 27.53 |
| 0.828 | . | 0.846 | 14.096 | 0.060 | . | 25.95 |
| 1.762 | . | 1.762 | 58.692 | 0.030 | . | 23.91 |
| 0.394 | 0.018 | 0.394 | 18.534 | 0.021 | 20.80 | 27.42 |
| 0.413 | 0.017 | 0.413 | 19.555 | 0.021 | 27.22 | 27.44 |
| 0.063 | 0.003 | 0.066 | . | 0.000 | . | . |
| 0.247 | 0.007 | 0.254 | 37.241 | 0.007 | 5.93 | 28.79 |
| 0.227 | 0.018 | 0.245 | 36.355 | 0.007 | 6.66 | 28.81 |
| 0.214 | . | 0.233 | 26.585 | 0.009 | . | 28.40 |
| 0.184 | . | 0.201 | 24.070 | 0.008 | . | 26.53 |
| 0.176 | . | 0.176 | 23.365 | 0.008 | . | 25.73 |
| 0.182 | 0.019 | 0.201 | 38.386 | 0.005 | 5.92 | 28.81 |
| 0.219 | 0.016 | 0.235 | 34.766 | 0.007 | 5.96 | 28.82 |
| 0.000 | 0.000 | 0.000 | . | 0.000 | . | . |
| 0.226 | 0.017 | 0.243 | 11.967 | 0.020 | 12.84 | 27.28 |
| 0.210 | 0.015 | 0.225 | 11.135 | 0.020 | 12.48 | 27.58 |
| 0.154 | . | 0.154 | 7.569 | 0.020 | . | 27.16 |
| 0.180 | . | 0.180 | 9.581 | 0.019 | . | 26.98 |
| 0.273 | . | 0.273 | 8.546 | 0.032 | . | 26.77 |
| 0.211 | 0.018 | 0.229 | 9.597 | 0.024 | 9.84 | 27.31 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.212 | 0.018 | 0.229 | 9.033 | 0.025 | 9.41 | 27.30 |
| 0.000 | 0.000 | 0.000 | . | 0.003 | . | . |
| 0.275 | 0.002 | 0.278 | 9.705 | 0.029 | 6.73 | 28.50 |
| 0.233 | 0.004 | 0.237 | 7.422 | 0.032 | 9.92 | 28.51 |
| 0.338 | . | 0.338 | 12.059 | 0.028 | . | 28.24 |
| 0.173 | . | 0.173 | 3.771 | 0.046 | . | 27.84 |
| 0.187 | . | 0.187 | 3.631 | 0.051 | . | 27.77 |
| 0.354 | 0.007 | 0.360 | 8.876 | 0.041 | 9.99 | 28.50 |
| 0.345 | 0.006 | 0.352 | 10.950 | 0.032 | 10.72 | 28.48 |
| 0.000 | 0.000 | 0.017 | . | 0.000 | . | . |
| 0.245 | 0.017 | 0.261 | 26.906 | 0.010 | 17.34 | 28.13 |
| 0.271 | 0.017 | 0.287 | 28.284 | 0.010 | 10.58 | 28.17 |
| 0.298 | . | 0.298 | 19.888 | 0.015 | . | 26.84 |
| 0.761 | . | 0.777 | 32.740 | 0.024 | . | 25.70 |
| 0.930 | . | 0.946 | 25.637 | 0.037 | . | 25.51 |
| 0.303 | 0.016 | 0.303 | 28.842 | 0.010 | 17.90 | 28.11 |
| 0.303 | 0.016 | 0.303 | 33.381 | 0.009 | 17.95 | 28.14 |

| CE (mS/cm) | pH (std units) | ORP (mV) | Tur. (NTU) | DO (% sat) | DO (mg/L) | Sechi (m) |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.31 | 8.49 | 185.50 | 2.8 | 97.8 | 7.86 | 1.5 |
| 0.31 | 8.51 | 170.70 | 3.0 | 101.1 | 8.12 | 1.5 |
| 0.33 | 7.26 | 251.78 | 2.2 | 6.0 | 0.50 | . |
| 0.32 | 7.16 | -228.77 | 4.0 | 1.8 | 0.15 | . |
| 0.32 | 7.17 | -250.69 | 5.7 | 1.7 | 0.14 | . |
| 0.31 | 8.57 | 24.30 | 2.8 | 106.7 | 8.54 | 1.5 |
| 0.31 | 8.57 | 24.30 | 2.8 | 106.7 | 8.54 | 1.5 |
| . | . | . | . | . | . | . |
| 0.33 | 8.39 | 203.20 | 1.4 | 101.2 | 8.25 | 1 |
| 0.33 | 8.39 | 185.60 | 1.2 | 102.7 | 8.37 | 1 |
| 0.33 | 7.26 | 263.83 | 13.5 | 3.1 | 0.26 | . |
| 0.31 | 7.17 | -93.76 | 31.4 | 1.9 | 0.16 | . |
| 0.28 | 7.13 | 28.00 | 151.6 | 3.4 | 0.28 | . |
| 0.33 | 8.49 | 105.20 | 1.2 | 111.4 | 9.05 | 1 |
| 0.33 | 8.51 | 134.70 | 1.6 | 111.9 | 9.09 | 1 |
| . | . | . | . | . | . | . |
| 0.27 | 8.96 | 212.90 | 4.7 | 142.4 | 11.30 | 1 |
| 0.26 | 8.99 | 222.30 | 4.6 | 147.4 | 11.69 | 1 |
| 0.24 | 7.07 | 397.11 | 43.1 | 25.7 | 2.16 | . |
| 0.21 | 6.99 | 416.00 | 84.2 | 24.2 | 2.08 | . |
| 0.19 | 6.90 | 422.45 | 156.4 | 26.1 | 2.26 | . |
| 0.27 | 8.99 | 220.70 | 4.8 | 145.8 | 11.59 | 1 |
| 0.27 | 8.98 | 252.50 | 4.8 | 146.0 | 11.60 | 1 |
| . | . | . | . | . | . | . |
| 0.25 | 9.02 | 196.90 | 4.0 | 142.3 | 11.21 | 0.86 |
| 0.25 | 9.09 | 306.00 | 4.2 | 137.0 | 10.83 | 0.87 |
| 0.23 | 7.00 | 406.56 | 20.5 | 5.5 | 0.46 | . |
| 0.18 | 6.85 | 423.00 | 71.6 | 13.1 | 1.12 | . |
| 0.17 | 6.79 | 422.11 | 92.2 | 2.3 | 0.20 | . |
| 0.24 | 9.04 | 243.10 | 4.4 | 150.9 | 11.89 | 0.92 |
| 0.25 | 9.04 | 256.10 | 4.3 | 150.5 | 11.86 | 0.92 |
| . | . | . | . | . | . | . |
| 0.26 | 8.28 | 74.80 | 18.9 | 118.2 | 9.27 | 0.6 |
| 0.26 | 8.47 | 92.60 | 19.4 | 121.6 | 9.53 | 0.5 |
| 0.23 | 7.31 | 225.89 | 102.8 | 21.4 | 1.76 | . |
| 0.15 | 7.07 | 262.60 | 282.6 | 20.0 | 1.68 | . |
| 0.14 | 6.95 | 272.42 | 444.3 | 4.3 | 0.36 | . |
| 0.26 | 8.50 | 86.10 | 18.2 | 125.9 | 9.83 | 0.6 |
| 0.26 | 8.52 | 103.30 | 18.4 | 126.6 | 9.86 | 0.6 |
| . | . | . | . | . | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.25 | 8.86 | 121.60 | 0.0 | 136.1 | 10.32 | 0.9 |
| 0.25 | 8.95 | 175.40 | 0.0 | 136.7 | 10.34 | 0.9 |
| 0.27 | 7.33 | 196.89 | 7.5 | 2.5 | 0.20 | . |
| 0.17 | 7.04 | 59.78 | 156.9 | 1.1 | 0.09 | . |
| 0.14 | 6.94 | 87.90 | 268.3 | 0.9 | 0.08 | . |
| 0.25 | 8.90 | 180.70 | 0.0 | 132.6 | 10.04 | 0.9 |
| 0.25 | 8.90 | 184.20 | 0.0 | 133.1 | 10.10 | 0.9 |
| . | . | . | . | . | . | . |
| 0.32 | 8.11 | 159.90 | 11.8 | 111.7 | 8.48 | 1.8 |
| 0.32 | 8.45 | 165.80 | 11.7 | 113.6 | 8.60 | 1.8 |
| 0.36 | 7.49 | 270.44 | 12.8 | 8.2 | 0.63 | . |
| 0.21 | 7.06 | -162.56 | 76.8 | 1.4 | 0.12 | . |
| 0.16 | 6.96 | -146.56 | 169.3 | 1.2 | 0.10 | . |
| 0.32 | 8.33 | 142.00 | 12.4 | 108.4 | 8.21 | 1.7 |
| 0.32 | 8.38 | 175.50 | 12.3 | 109.2 | 8.29 | 1.7 |
| . | . | . | . | . | . | . |
| 0.32 | 8.87 | 180.90 | 0.6 | 122.7 | 9.27 | 1.5 |
| 0.32 | 8.95 | 213.30 | 0.9 | 134.0 | 10.09 | 1.7 |
| 0.32 | 7.48 | 222.50 | 0.5 | 2.6 | 0.20 | . |
| 0.26 | 6.98 | -295.11 | 18.3 | 1.2 | 0.09 | . |
| 0.18 | 6.73 | -285.40 | 63.6 | 0.7 | 0.06 | . |
| 0.32 | 8.90 | 198.90 | 0.7 | 128.2 | 9.66 | 1.6 |
| 0.32 | 8.92 | 209.60 | 0.6 | 130.5 | 9.81 | 1.6 |
| . | . | . | . | . | . | . |
| 0.31 | 8.64 | 221.60 | 1.5 | 127.4 | 9.83 | 1.6 |
| 0.31 | 8.67 | 217.50 | 1.4 | 132.8 | 10.23 | 1.8 |
| 0.34 | 7.35 | 254.56 | 4.5 | 2.8 | 0.22 | . |
| 0.22 | 7.04 | -202.69 | 35.2 | 1.9 | 0.15 | . |
| 0.20 | 6.89 | -229.30 | 32.0 | 1.4 | 0.12 | . |
| 0.31 | 8.66 | 170.50 | 1.3 | 129.3 | 9.96 | 1.7 |
| 0.31 | 8.66 | 187.50 | 1.2 | 129.5 | 9.95 | 1.7 |
| . | . | . | . | . | . | . |
| 0.24 | 9.07 | 178.50 | 7.1 | 156.8 | 12.19 | 0.7 |
| 0.24 | 9.06 | 168.20 | 6.2 | 151.5 | 11.76 | 0.8 |
| 0.21 | 7.20 | 336.20 | 71.3 | 9.8 | 0.80 | . |
| 0.15 | 6.89 | 358.56 | 308.2 | 13.1 | 1.08 | . |
| 0.13 | 6.83 | 365.29 | 448.4 | 19.9 | 1.67 | . |
| 0.24 | 9.30 | 189.80 | 6.8 | 154.8 | 12.03 | 0.8 |
| 0.24 | 9.14 | 208.40 | 6.5 | 157.6 | 12.23 | 0.8 |
| . | . | . | . | . | . | . |
| 0.27 | 8.58 | 244.80 | 0.0 | 121.7 | 9.72 | 1.3 |
| 0.27 | 8.66 | 243.20 | 0.0 | 121.4 | 9.68 | 1 |
| 0.27 | 7.33 | 346.00 | 6.9 | 4.8 | 0.39 | . |
| 0.21 | 7.09 | 116.87 | 103.4 | 2.1 | 0.17 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.14 | 6.90 | 72.93 | 352.8 | 1.7 | 0.14 | . |
| 0.27 | 8.48 | 226.70 | 0.0 | 100.7 | 8.05 | 1.2 |
| 0.27 | 8.44 | 278.10 | 0.0 | 103.2 | 8.24 | 1.1 |
| . | . | . | . | . | . | . |
| 0.32 | 8.30 | 234.20 | 0.0 | 85.1 | 6.95 | 2 |
| 0.32 | 8.12 | 313.90 | 0.0 | 79.8 | 6.50 | 1.9 |
| 0.32 | 7.60 | 101.00 | 0.0 | 4.2 | 0.35 | . |
| 0.34 | 7.49 | 103.11 | 0.0 | 2.3 | 0.19 | . |
| 0.31 | 7.37 | -94.50 | 23.7 | 1.9 | 0.16 | . |
| 0.32 | 8.18 | 311.10 | 0.0 | 82.9 | 6.76 | 1.9 |
| 0.32 | 8.11 | 314.30 | 0.0 | 82.3 | 6.71 | 1.9 |
| . | . | . | . | . | . | . |
| 0.34 | 8.21 | 237.50 | 0.0 | 95.9 | 7.76 | 2.3 |
| 0.34 | 8.16 | 296.20 | 0.0 | 93.5 | 7.57 | 2.1 |
| 0.36 | 7.46 | -14.00 | 0.0 | 3.9 | 0.32 | . |
| 0.36 | 7.32 | -116.89 | 0.0 | 2.4 | 0.20 | . |
| 0.35 | 7.27 | -134.60 | 0.0 | 2.0 | 0.17 | . |
| 0.34 | 8.15 | 269.20 | 0.0 | 94.2 | 7.64 | 2 |
| 0.34 | 8.14 | 280.20 | 0.0 | 94.3 | 7.64 | 2 |
| . | . | . | . | . | . | . |
| 0.36 | 8.26 | 260.00 | 0.0 | 83.8 | 6.77 | 1.7 |
| 0.36 | 8.17 | 304.10 | 0.0 | 88.8 | 7.17 | 1.7 |
| 0.38 | 7.41 | -50.62 | 0.0 | 4.4 | 0.36 | . |
| 0.36 | 7.19 | -163.11 | 0.0 | 2.3 | 0.19 | . |
| 0.36 | 7.11 | -172.60 | 0.0 | 2.1 | 0.17 | . |
| 0.36 | 8.19 | 296.10 | 0.0 | 89.6 | 7.24 | 1.8 |
| 0.36 | 8.17 | 293.10 | 0.0 | 88.5 | 7.16 | 1.8 |
| . | . | . | . | . | . | . |
| 0.36 | 8.72 | 152.00 | 2.8 | 116.0 | 9.01 | 1.3 |
| 0.36 | 8.73 | 162.30 | 2.8 | 119.0 | 9.23 | 1.3 |
| 0.36 | 7.35 | 81.00 | 1.7 | 3.3 | 0.27 | . |
| 0.35 | 7.09 | -335.71 | 7.5 | 1.5 | 0.13 | . |
| 0.32 | 7.08 | -316.67 | 9.9 | 1.3 | 0.11 | . |
| 0.36 | 8.77 | 167.60 | 2.9 | 121.3 | 9.42 | 1.5 |
| 0.36 | 8.76 | 174.80 | 2.8 | 122.1 | 9.45 | 1.5 |
| . | . | . | . | . | . | . |
| 0.29 | 8.87 | 173.30 | 3.9 | 126.5 | 9.75 | 1 |
| 0.29 | 8.84 | 169.90 | 4.2 | 120.9 | 9.27 | 0.9 |
| 0.30 | 7.00 | 267.70 | 9.9 | 2.8 | 0.23 | . |
| 0.26 | 6.85 | -83.53 | 45.6 | 1.6 | 0.13 | . |
| 0.27 | 6.84 | -231.81 | 62.9 | 1.4 | 0.11 | . |
| 0.29 | 8.85 | 161.70 | 5.9 | 125.1 | 9.51 | 0.8 |
| 0.29 | 8.83 | 191.30 | 5.2 | 118.7 | 9.06 | 0.8 |
| . | . | . | . | . | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.26 | 8.98 | 191.30 | 1.7 | 138.5 | 10.50 | 1.2 |
| 0.26 | 9.04 | 208.40 | 2.1 | 146.5 | 11.08 | 1.4 |
| 0.23 | 7.00 | 136.63 | 19.1 | 2.4 | 0.19 | . |
| 0.20 | 6.77 | -127.71 | 47.9 | 1.7 | 0.14 | . |
| 0.17 | 6.78 | -94.25 | 118.5 | 1.5 | 0.12 | . |
| 0.26 | 8.94 | 192.30 | 1.7 | 130.8 | 9.95 | 1.4 |
| 0.26 | 8.96 | 213.70 | 1.4 | 134.6 | 10.18 | 1.4 |
| . | . | . | . | . | . | . |
| 0.27 | 8.78 | 238.70 | 4.8 | 145.6 | 11.28 | 1 |
| 0.27 | 8.82 | 289.40 | 5.0 | 148.5 | 11.50 | 0.9 |
| 0.21 | 7.13 | 381.13 | 42.0 | 11.7 | 0.96 | . |
| 0.19 | 7.03 | 285.94 | 73.0 | 2.3 | 0.19 | . |
| 0.18 | 7.04 | 126.44 | 93.0 | 1.9 | 0.16 | . |
| 0.27 | 8.78 | 264.30 | 4.9 | 145.2 | 11.26 | 0.9 |
| 0.27 | 8.74 | 289.10 | 4.7 | 140.2 | 10.84 | 0.8 |
| . | . | . | . | . | . | . |
| 0.31 | 8.77 | 180.30 | 3.0 | 121.4 | 9.34 | 1.2 |
| 0.31 | 8.67 | 237.30 | 2.5 | 114.3 | 8.82 | 1.2 |
| 0.29 | 7.15 | 328.41 | 11.6 | 2.6 | 0.21 | . |
| 0.22 | 6.87 | -148.00 | 31.0 | 1.7 | 0.14 | . |
| 0.21 | 6.80 | -198.86 | 45.0 | 1.5 | 0.12 | . |
| 0.32 | 8.62 | 205.70 | 2.3 | 98.6 | 7.61 | 1.2 |
| 0.32 | 8.60 | 230.80 | 2.5 | 101.6 | 7.84 | 1.3 |
| . | . | . | . | . | . | . |
| 0.36 | 8.50 | 202.10 | 2.7 | 110.7 | 8.64 | 1.5 |
| 0.36 | 8.46 | 230.20 | 2.3 | 114.4 | 8.88 | 1.6 |
| 0.33 | 7.14 | 344.37 | 22.6 | 7.9 | 0.63 | . |
| 0.24 | 6.82 | -134.18 | 35.7 | 1.6 | 0.13 | . |
| 0.23 | 6.71 | -150.88 | 114.3 | 1.4 | 0.12 | . |
| 0.36 | 8.48 | 201.90 | 3.1 | 113.7 | 8.86 | 1.6 |
| 0.36 | 8.49 | 245.00 | 2.8 | 117.0 | 9.05 | 1.6 |
| | | | | | | |
| 0.33 | 8.72 | 159.10 | 1.6 | 134.7 | 10.94 | 1.6 |
| 0.34 | 8.72 | 161.30 | 1.7 | 136.5 | 11.07 | 1.6 |
| 0.34 | 7.25 | 190.41 | 1.4 | 1.7 | 0.14 | . |
| 0.31 | 7.13 | 189.89 | 11.4 | 0.7 | 0.06 | . |
| 0.33 | 7.16 | 186.18 | 17.2 | 0.6 | 0.05 | . |
| 0.34 | 8.71 | 159.10 | 2.0 | 135.0 | 10.96 | 1.5 |
| 0.34 | 8.70 | 159.80 | 2.0 | 134.6 | 10.93 | 1.5 |
| | | | | | | |
| 0.37 | 8.64 | 80.10 | 2.4 | 117.9 | 9.45 | 1.4 |
| 0.37 | 8.65 | 68.30 | 2.1 | 119.2 | 9.56 | 1.4 |
| 0.40 | 7.39 | 72.25 | 0.8 | 2.6 | 0.22 | . |
| 0.33 | 7.13 | 68.88 | 4.7 | 1.2 | 0.10 | . |

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|---|---|---|---|---|---|---|
| 0.32 | 7.03 | 62.45 | 9.4 | 0.9 | 0.08 | . |
| 0.37 | 8.65 | 70.30 | 2.2 | 120.3 | 9.62 | 1.3 |
| 0.37 | 8.64 | 72.50 | 2.3 | 119.6 | 9.68 | 1.4 |
| | | | | | | |
| 0.40 | 8.30 | 67.40 | 1.7 | 89.7 | 7.07 | 2.2 |
| 0.40 | 8.32 | 50.20 | 1.9 | 91.0 | 7.15 | 2.1 |
| 0.40 | 7.40 | 33.18 | 2.0 | 2.7 | 0.22 | . |
| 0.34 | 7.08 | -32.65 | 3.7 | 1.2 | 0.10 | . |
| 0.33 | 6.98 | -54.12 | 7.9 | 1.1 | 0.09 | . |
| 0.40 | 8.29 | 52.30 | 2.3 | 87.7 | 6.90 | 2 |
| 0.40 | 8.28 | 52.10 | 2.5 | 86.4 | 6.80 | 2 |
| | | | | | | |
| 0.38 | 8.12 | 203.90 | 2.8 | 79.0 | 6.23 | 1.6 |
| 0.37 | 8.37 | 275.10 | 3.0 | 101.3 | 7.96 | 1.6 |
| 0.38 | 7.53 | 354.33 | 3.1 | 8.2 | 0.65 | . |
| 0.32 | 6.99 | -206.35 | 2.6 | 1.7 | 0.15 | . |
| 0.30 | 6.76 | -204.24 | 5.8 | 1.6 | 0.14 | . |
| 0.37 | 8.37 | 232.10 | 2.6 | 102.4 | 8.06 | 1.7 |
| 0.37 | 8.38 | 273.50 | 2.5 | 103.3 | 8.12 | 1.7 |
| . | . | . | . | . | . | . |
| 0.16 | 7.92 | 150.60 | 9.9 | 99.3 | 8.19 | 1.1 |
| 0.16 | 8.04 | 139.10 | 9.7 | 98.4 | 8.12 | 1.1 |
| 0.15 | 6.61 | -33.92 | 7.9 | 3.4 | 0.29 | . |
| 0.17 | 6.61 | -295.86 | 12.2 | 1.7 | 0.15 | . |
| 0.16 | 8.14 | -26.00 | 9.1 | 100.2 | 8.24 | 1 |
| 0.16 | 8.15 | -16.40 | 9.2 | 100.2 | 8.31 | 1 |
| . | . | . | . | . | . | . |
| 0.18 | 8.01 | 212.10 | 8.5 | 98.1 | 8.02 | 1.5 |
| 0.18 | 8.06 | 253.70 | 8.5 | 100.9 | 8.33 | 1.5 |
| 0.16 | 6.66 | 357.71 | 6.4 | 3.2 | 0.27 | . |
| 0.18 | 7.95 | 281.50 | 8.6 | 96.2 | 7.85 | 1 |
| 0.18 | 8.01 | 287.20 | 8.5 | 98.5 | 8.06 | 1 |
| . | . | . | . | . | . | . |
| 0.17 | 8.02 | 285.30 | 12.4 | 96.5 | 7.89 | 1 |
| 0.17 | 8.10 | 284.10 | 5.9 | 105.3 | 8.60 | 1.18 |
| 0.20 | 6.68 | -32.46 | 8.5 | 2.5 | 0.21 | . |
| 0.17 | 6.64 | -229.29 | 34.1 | 1.8 | 0.15 | . |
| 0.17 | 8.06 | 248.80 | 6.7 | 100.7 | 8.20 | 1.1 |
| 0.17 | 7.93 | 297.40 | 6.6 | 100.8 | 8.26 | 1.1 |
| . | . | . | . | . | . | . |
| 0.15 | 7.20 | 248.60 | 8.9 | 84.9 | 6.92 | 0.75 |
| 0.15 | 7.44 | 292.30 | 8.5 | 92.8 | 7.49 | 0.8 |
| 0.17 | 6.48 | -70.80 | 13.6 | 29.2 | 2.47 | . |
| 0.16 | 6.41 | -205.33 | 36.9 | 20.6 | 1.77 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.16 | 6.47 | -225.19 | 53.4 | 13.7 | 1.18 | . |
| 0.15 | 7.63 | 300.90 | 9.9 | 101.5 | 8.26 | 0.85 |
| 0.15 | 7.60 | 272.50 | 8.9 | 100.3 | 8.16 | 0.85 |
| . | . | . | . | . | . | . |
| 0.14 | 7.11 | 153.00 | 14.2 | 93.8 | 7.52 | 0.7 |
| 0.14 | 7.46 | 131.10 | 14.1 | 92.1 | 7.47 | 0.7 |
| 0.17 | 6.58 | -218.13 | 47.3 | 1.2 | 0.10 | . |
| 0.11 | 6.59 | -236.00 | 132.6 | 0.7 | 0.06 | . |
| 0.14 | 7.48 | 141.30 | 15.8 | 102.8 | 8.29 | 0.6 |
| 0.14 | 7.45 | 155.80 | 14.4 | 101.5 | 8.18 | 0.6 |
| . | . | . | . | . | . | . |
| 0.15 | 7.90 | 126.40 | 16.3 | 103.6 | 8.00 | 0.9 |
| 0.15 | 8.23 | 107.00 | 14.7 | 109.0 | 8.41 | 0.9 |
| 0.18 | 6.59 | -182.92 | 48.1 | 1.4 | 0.12 | . |
| 0.14 | 8.06 | 106.50 | 15.4 | 107.4 | 8.32 | 1 |
| 0.14 | 8.07 | 123.40 | 17.1 | 105.4 | 8.12 | 1 |
| . | . | . | . | . | . | . |
| 0.16 | 7.81 | 167.40 | 21.7 | 95.5 | 7.43 | 0.9 |
| 0.16 | 8.19 | 211.50 | 21.2 | 95.9 | 7.47 | 0.9 |
| 0.17 | 6.83 | -57.63 | 20.8 | 2.0 | 0.16 | . |
| 0.17 | 6.47 | -133.70 | 76.1 | 1.3 | 0.11 | . |
| 0.16 | 8.35 | 225.30 | 19.6 | 105.7 | 8.22 | 0.8 |
| 0.16 | 8.33 | 228.60 | 19.4 | 104.9 | 8.15 | 0.8 |
| . | . | . | . | . | . | . |
| 0.18 | 7.20 | 206.90 | 8.1 | 89.8 | 6.96 | 0.9 |
| 0.18 | 7.67 | 235.00 | 7.9 | 92.0 | 7.13 | 0.9 |
| 0.20 | 6.80 | -172.11 | 10.9 | 1.9 | 0.15 | . |
| 0.18 | 7.55 | 269.20 | 7.0 | 93.2 | 7.22 | 1 |
| 0.18 | 7.60 | 274.90 | 6.7 | 93.3 | 7.24 | 1 |
| . | . | . | . | . | . | . |
| 0.17 | 8.11 | 249.90 | 40.8 | 116.0 | 9.02 | 1 |
| 0.17 | 8.42 | 274.50 | 40.1 | 120.1 | 9.31 | 1 |
| 0.18 | 6.62 | -7.11 | 49.6 | 2.5 | 0.20 | . |
| 0.16 | 6.29 | -133.50 | 125.2 | 1.3 | 0.11 | . |
| 0.17 | 8.40 | 268.00 | 40.0 | 119.0 | 9.24 | 1 |
| 0.17 | 8.41 | 272.00 | 40.0 | 119.2 | 9.26 | 1 |
| . | . | . | . | . | . | . |
| 0.19 | 7.80 | 152.50 | 8.2 | 61.0 | 4.80 | 0.8 |
| 0.19 | 7.43 | 234.70 | 8.0 | 62.2 | 4.91 | 0.7 |
| 0.21 | 6.94 | -2.30 | 11.3 | 4.0 | 0.32 | . |
| 0.21 | 6.35 | -226.11 | 34.9 | 1.5 | 0.13 | . |
| 0.19 | 7.56 | 198.70 | 7.1 | 65.0 | 5.12 | 0.8 |
| 0.19 | 7.48 | 226.90 | 7.4 | 64.6 | 5.10 | 0.8 |
| . | . | . | . | . | . | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.18 | 7.88 | 167.90 | 0.0 | 83.3 | 6.70 | 1.4 |
| 0.18 | 7.42 | 270.30 | 0.0 | 87.3 | 7.01 | 1.3 |
| 0.19 | 6.79 | -75.50 | 0.6 | 5.8 | 0.47 | . |
| 0.13 | 6.57 | -145.53 | 136.7 | 2.0 | 0.16 | . |
| 0.18 | 7.53 | 260.30 | 0.0 | 93.5 | 7.48 | 1.4 |
| 0.18 | 7.52 | 280.70 | 0.0 | 93.3 | 7.46 | 1.4 |
| . | . | . | . | . | . | . |
| 0.20 | 6.58 | 313.30 | 0.0 | 43.5 | 3.71 | 0.8 |
| 0.19 | 7.15 | 343.80 | 0.0 | 59.9 | 4.89 | 0.9 |
| 0.19 | 7.00 | 375.08 | 0.0 | 35.1 | 2.99 | . |
| 0.19 | 7.02 | 373.60 | 0.0 | 36.0 | 3.07 | . |
| 0.20 | 6.95 | 278.00 | 0.0 | 55.3 | 4.66 | 0.9 |
| 0.20 | 6.99 | 327.90 | 0.0 | 52.7 | 4.50 | 0.9 |
| . | . | . | . | . | . | . |
| 0.22 | 8.06 | 240.60 | 0.0 | 76.0 | 6.42 | 1 |
| 0.22 | 7.54 | 295.10 | 0.0 | 80.5 | 6.80 | 1 |
| 0.20 | 7.05 | 370.56 | 0.0 | 30.2 | 2.57 | . |
| 0.20 | 6.88 | -74.62 | 2.6 | 2.9 | 0.25 | . |
| 0.22 | 7.57 | 307.70 | 0.0 | 78.2 | 6.59 | 1 |
| 0.22 | 7.56 | 318.40 | 0.0 | 77.8 | 6.57 | 1 |
| . | . | . | . | . | . | . |
| 0.23 | 8.26 | 259.60 | 0.0 | 105.8 | 8.67 | 1 |
| 0.23 | 8.18 | 318.80 | 0.0 | 108.0 | 8.84 | 0.9 |
| 0.21 | 7.01 | 308.17 | 0.0 | 6.7 | 0.57 | . |
| 0.23 | 8.17 | 334.90 | 0.0 | 111.0 | 9.09 | 0.9 |
| 0.23 | 8.14 | 204.30 | 0.0 | 110.3 | 9.03 | 0.9 |
| . | . | . | . | . | . | . |
| 0.23 | 7.93 | 231.60 | 8.6 | 70.8 | 5.95 | 0.9 |
| 0.23 | 7.72 | 275.80 | 7.1 | 70.6 | 5.90 | 0.9 |
| 0.22 | 7.26 | 368.25 | 5.5 | 15.3 | 1.29 | . |
| 0.22 | 7.07 | -142.82 | 11.2 | 2.3 | 0.19 | . |
| 0.23 | 7.80 | 305.80 | 6.5 | 78.5 | 6.58 | 0.9 |
| 0.23 | 7.74 | 332.30 | 6.6 | 76.3 | 6.40 | 0.9 |
| . | . | . | . | . | . | . |
| 0.19 | 8.20 | 216.90 | 7.6 | 109.6 | 8.56 | 0.9 |
| 0.19 | 8.37 | 204.70 | 7.4 | 110.0 | 8.62 | 1 |
| 0.23 | 6.62 | -36.27 | 13.7 | 2.0 | 0.16 | . |
| 0.19 | 8.46 | 180.80 | 7.1 | 116.7 | 9.09 | 1 |
| 0.19 | 8.46 | 206.10 | 6.8 | 115.8 | 9.02 | 1 |
| . | . | . | . | . | . | . |
| 0.18 | 8.06 | 200.60 | 8.5 | 100.1 | 7.95 | 0.8 |
| 0.18 | 7.97 | 258.70 | 7.6 | 100.1 | 7.99 | 0.8 |
| 0.23 | 6.70 | -69.44 | 30.3 | 2.2 | 0.18 | . |
| 0.19 | 6.52 | -203.25 | 89.6 | 1.5 | 0.13 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.18 | 7.80 | 237.90 | 7.9 | 95.5 | 7.66 | 0.8 |
| 0.17 | 7.97 | 252.40 | 7.6 | 100.6 | 7.98 | 0.8 |
| . | . | . | . | . | . | . |
| 0.16 | 7.54 | 193.10 | 3.6 | 84.8 | 6.60 | 1.1 |
| 0.16 | 7.66 | 284.50 | 5.3 | 89.0 | 6.92 | 1.1 |
| 0.21 | 6.68 | -39.43 | 32.6 | 2.0 | 0.17 | . |
| 0.16 | 7.64 | 237.80 | 4.0 | 87.6 | 6.81 | 1.1 |
| 0.16 | 7.57 | 270.30 | 3.8 | 84.4 | 6.57 | 1.1 |
| . | . | . | . | . | . | . |
| 0.16 | 7.04 | 260.90 | 4.6 | 67.5 | 5.28 | 1 |
| 0.16 | 7.31 | 272.80 | 6.3 | 77.6 | 6.06 | 1.1 |
| 0.22 | 6.55 | 81.08 | 20.4 | 2.4 | 0.20 | . |
| 0.15 | 6.20 | -119.94 | 56.3 | 1.8 | 0.15 | . |
| 0.16 | 7.37 | 271.50 | 4.2 | 88.2 | 6.87 | 1.2 |
| 0.16 | 7.22 | 302.50 | 3.5 | 74.3 | 5.81 | 1 |
| . | . | . | . | . | . | . |
| 0.17 | 7.29 | 261.30 | 5.8 | 82.6 | 6.43 | 1.1 |
| 0.17 | 7.28 | 307.40 | 5.7 | 82.6 | 6.42 | 1.1 |
| 0.22 | 6.59 | 18.47 | 20.3 | 2.5 | 0.20 | . |
| 0.17 | 6.32 | -139.94 | 48.7 | 2.0 | 0.17 | . |
| 0.17 | 7.27 | 299.50 | 5.0 | 85.5 | 6.63 | 1.2 |
| 0.17 | 7.21 | 327.30 | 4.1 | 81.7 | 6.27 | 1.1 |
| | | | | | | |
| 0.19 | 7.34 | 75.60 | 4.7 | 75.4 | 6.30 | 1.1 |
| 0.19 | 7.49 | 67.10 | 5.7 | 84.9 | 7.08 | 1 |
| 0.19 | 6.72 | 68.35 | 5.0 | 4.7 | 0.40 | . |
| 0.19 | 7.51 | 69.50 | 5.6 | 88.3 | 7.36 | 1.1 |
| 0.19 | 7.54 | 68.20 | 4.7 | 91.7 | 7.64 | 1.1 |
| | | | | | | |
| 0.23 | 7.49 | 73.70 | 4.9 | 76.0 | 6.26 | 0.9 |
| 0.23 | 7.83 | 61.80 | 6.2 | 87.7 | 7.22 | 1 |
| 0.21 | 6.80 | 57.56 | 6.2 | 1.8 | 0.15 | . |
| 0.25 | 6.57 | -27.89 | 11.7 | 1.1 | 0.09 | . |
| 0.23 | 7.74 | 64.70 | 5.9 | 85.0 | 7.00 | 0.9 |
| 0.23 | 7.76 | 63.10 | 6.6 | 85.1 | 7.00 | 0.9 |
| | | | | | | |
| 0.19 | 7.96 | 62.90 | 6.9 | 93.9 | 7.63 | 1.2 |
| 0.19 | 8.18 | 50.40 | 6.7 | 98.3 | 7.98 | 1.1 |
| 0.23 | 6.87 | 7.90 | 8.5 | 1.8 | 0.15 | . |
| 0.23 | 6.47 | -50.22 | 11.3 | 1.2 | 0.10 | . |
| 0.18 | 8.16 | 53.20 | 6.7 | 98.4 | 7.98 | 1.2 |
| 0.18 | 8.17 | 51.30 | 6.8 | 98.6 | 8.00 | 1.1 |
| | | | | | | |
| 0.21 | 7.56 | 186.70 | 6.1 | 102.3 | 8.23 | 1.1 |

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|---|---|---|---|---|---|---|
| 0.20 | 8.03 | 219.20 | 7.0 | 109.7 | 8.82 | 1.1 |
| 0.18 | 6.77 | 223.06 | 7.6 | 3.9 | 0.32 | . |
| 0.20 | 7.84 | 217.60 | 5.6 | 106.2 | 8.54 | 1.1 |
| 0.20 | 7.88 | 252.90 | 4.8 | 106.3 | 8.54 | 1.1 |
| . | . | . | . | . | . | . |
| 0.14 | 7.67 | 227.50 | 3.4 | 95.1 | 7.74 | 3 |
| 0.14 | 7.68 | 277.80 | 3.4 | 95.5 | 7.76 | 3 |
| 0.14 | 7.56 | 320.73 | 3.4 | 91.6 | 7.46 | . |
| 0.14 | 6.82 | 349.88 | 4.4 | 27.8 | 2.29 | . |
| 0.14 | 6.74 | 358.31 | 4.1 | 6.8 | 0.56 | . |
| 0.14 | 7.72 | 262.80 | 3.5 | 96.6 | 7.83 | 3 |
| 0.14 | 7.73 | 292.50 | 3.5 | 96.4 | 7.81 | 3 |
| . | . | . | . | . | . | . |
| 0.16 | 7.68 | 189.20 | 0.4 | 95.1 | 7.65 | 2.5 |
| 0.16 | 7.70 | 22.60 | 0.0 | 91.6 | 7.37 | 2.5 |
| 0.16 | 7.63 | 288.00 | 0.0 | 91.8 | 7.41 | . |
| 0.16 | 6.87 | 324.50 | 0.0 | 21.5 | 1.76 | . |
| 0.16 | 6.74 | -150.40 | 0.0 | 2.5 | 0.21 | . |
| 0.16 | 7.67 | 146.90 | 0.4 | 94.9 | 7.65 | 2.5 |
| 0.16 | 7.69 | 206.60 | 0.2 | 94.8 | 7.64 | 2.5 |
| . | . | . | . | . | . | . |
| 0.16 | 7.45 | 255.60 | 5.1 | 84.3 | 6.79 | 1.34 |
| 0.16 | 7.47 | 260.60 | 4.7 | 90.0 | 7.24 | 1.34 |
| 0.15 | 6.81 | 389.58 | 16.7 | 38.8 | 3.19 | . |
| 0.12 | 6.70 | 407.54 | 44.5 | 53.8 | 4.48 | . |
| 0.11 | 6.73 | 411.29 | 60.2 | 62.2 | 5.22 | . |
| 0.16 | 7.43 | 255.80 | 4.9 | 86.5 | 6.96 | 1.31 |
| 0.16 | 7.44 | 299.50 | 4.6 | 86.9 | 7.01 | 1.31 |
| . | . | . | . | . | . | . |
| 0.16 | 7.47 | 126.70 | 0.0 | 89.3 | 7.19 | 2 |
| 0.16 | 7.51 | 127.90 | 0.0 | 89.6 | 7.20 | 2 |
| 0.16 | 7.38 | 183.20 | 0.0 | 84.8 | 6.87 | . |
| 0.13 | 6.49 | 215.60 | 8.9 | 15.6 | 1.30 | . |
| 0.12 | 6.45 | 223.23 | 18.8 | 23.1 | 1.93 | . |
| 0.16 | 7.52 | 130.30 | 0.0 | 89.8 | 7.23 | 1.89 |
| 0.16 | 7.52 | 124.70 | 0.0 | 90.5 | 7.27 | 1.85 |
| . | . | . | . | . | . | . |
| 0.15 | 7.91 | 268.50 | 14.8 | 102.6 | 8.02 | 1.7 |
| 0.15 | 7.87 | 307.90 | 9.1 | 101.7 | 7.95 | 1.7 |
| 0.14 | 6.78 | 416.00 | 14.3 | 51.7 | 4.18 | . |
| 0.13 | 6.45 | 356.67 | 16.7 | 21.1 | 1.74 | . |
| 0.12 | 6.41 | 153.40 | 21.6 | 2.3 | 0.19 | . |
| 0.15 | 7.84 | 283.00 | 3.9 | 102.2 | 8.00 | 1.7 |
| 0.15 | 7.86 | 303.30 | 3.9 | 102.4 | 8.00 | 1.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.13 | 8.15 | 80.20 | 0.0 | 109.5 | 8.45 | 1.9 |
| 0.13 | 8.30 | 95.20 | 0.0 | 110.6 | 8.54 | 1.9 |
| 0.13 | 7.13 | 263.75 | 0.0 | 34.7 | 2.80 | . |
| 0.11 | 6.86 | 292.55 | 0.0 | 14.6 | 1.21 | . |
| 0.12 | 6.80 | -93.44 | 0.0 | 1.2 | 0.10 | . |
| 0.13 | 8.24 | 103.80 | 0.0 | 109.7 | 8.47 | 1.8 |
| 0.13 | 8.24 | 135.00 | 0.0 | 110.3 | 8.51 | 1.8 |
| . | . | . | . | . | . | . |
| 0.14 | 7.58 | 182.40 | 10.3 | 90.6 | 6.89 | 3.7 |
| 0.14 | 7.64 | 174.50 | 10.3 | 91.7 | 6.95 | 3.3 |
| 0.15 | 7.04 | 285.67 | 11.5 | 27.5 | 2.12 | . |
| 0.12 | 6.72 | -145.92 | 13.0 | 1.4 | 0.11 | . |
| 0.13 | 6.73 | -188.38 | 17.1 | 1.0 | 0.08 | . |
| 0.14 | 7.61 | 208.00 | 10.3 | 90.6 | 6.87 | 3.3 |
| 0.14 | 7.59 | 226.10 | 10.4 | 89.8 | 6.82 | 3.3 |
| . | . | . | . | . | . | . |
| 0.14 | 7.51 | 121.70 | 0.0 | 96.8 | 7.33 | 3 |
| 0.14 | 7.85 | 159.00 | 0.0 | 98.0 | 7.42 | 3.5 |
| 0.14 | 7.38 | 318.56 | 0.0 | 33.3 | 2.60 | . |
| 0.12 | 6.94 | -20.00 | 0.0 | 1.8 | 0.15 | . |
| 0.12 | 6.54 | -134.60 | 192.5 | 1.4 | 0.11 | . |
| 0.14 | 7.74 | 131.70 | 0.0 | 96.0 | 7.28 | 3.4 |
| 0.14 | 7.76 | 149.10 | 0.0 | 95.9 | 7.27 | 3.4 |
| . | . | . | . | . | . | . |
| 0.14 | 7.70 | 125.30 | 0.0 | 88.5 | 6.74 | 3.7 |
| 0.14 | 7.72 | 180.10 | 0.0 | 88.7 | 6.75 | 3.4 |
| 0.15 | 7.59 | 300.25 | 0.0 | 83.8 | 6.41 | . |
| 0.13 | 6.93 | -86.89 | 1.8 | 2.2 | 0.17 | . |
| 0.12 | 6.79 | -151.00 | 1.6 | 1.6 | 0.13 | . |
| 0.14 | 7.78 | 139.90 | 0.0 | 89.5 | 6.82 | 3.3 |
| 0.14 | 7.74 | 143.80 | 0.0 | 89.3 | 6.80 | 3.3 |
| . | . | . | . | . | . | . |
| 0.14 | 7.67 | 266.30 | 0.0 | 94.2 | 7.31 | 2.6 |
| 0.14 | 7.78 | 270.60 | 0.0 | 95.3 | 7.39 | 2.5 |
| 0.15 | 7.53 | 302.38 | 0.0 | 83.9 | 6.53 | . |
| 0.14 | 6.81 | 316.00 | 0.0 | 3.6 | 0.29 | . |
| 0.14 | 6.79 | -67.20 | 0.0 | 2.2 | 0.18 | . |
| 0.14 | 7.74 | 281.90 | 0.0 | 96.2 | 7.46 | 2.4 |
| 0.14 | 7.75 | 261.60 | 0.0 | 96.6 | 7.49 | 2.4 |
| . | . | . | . | . | . | . |
| 0.14 | 8.02 | 250.30 | 0.0 | 92.5 | 7.23 | 2.6 |
| 0.14 | 7.69 | 288.50 | 0.0 | 92.6 | 7.24 | 2.9 |
| 0.15 | 7.45 | 327.80 | 0.0 | 77.7 | 6.10 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.14 | 6.88 | 292.70 | 0.0 | 6.0 | 0.47 | . |
| 0.14 | 6.85 | -93.27 | 0.0 | 2.5 | 0.20 | . |
| 0.14 | 7.76 | 304.70 | 0.0 | 92.6 | 7.24 | 2.8 |
| 0.14 | 7.77 | 307.50 | 0.0 | 92.5 | 7.23 | 2.8 |
| . | . | . | . | . | . | . |
| 0.15 | 7.10 | 306.20 | 0.0 | 87.9 | 7.21 | 2.4 |
| 0.15 | 7.64 | 296.10 | 0.0 | 88.4 | 7.25 | 2.6 |
| 0.15 | 7.58 | 358.73 | 0.0 | 83.1 | 6.82 | . |
| 0.15 | 7.44 | 362.00 | 0.0 | 69.2 | 5.70 | . |
| 0.15 | 7.39 | 361.38 | 0.0 | 65.6 | 5.42 | . |
| 0.15 | 7.47 | 300.50 | 0.0 | 87.7 | 7.19 | 2.3 |
| 0.15 | 7.50 | 321.00 | 0.0 | 87.6 | 7.18 | 2.3 |
| . | . | . | . | . | . | . |
| 0.15 | 7.43 | 318.00 | 0.0 | 88.6 | 7.24 | 3.3 |
| 0.15 | 7.57 | 339.40 | 0.0 | 88.0 | 7.19 | 3.4 |
| 0.15 | 7.53 | 338.33 | 0.0 | 84.4 | 6.92 | . |
| 0.15 | 7.27 | 343.69 | 0.0 | 47.6 | 3.91 | . |
| 0.15 | 7.08 | 344.10 | 0.0 | 32.5 | 2.68 | . |
| 0.15 | 7.55 | 337.10 | 0.0 | 88.5 | 7.23 | 3.4 |
| 0.15 | 7.57 | 334.00 | 0.0 | 89.2 | 7.29 | 3.4 |
| . | . | . | . | . | . | . |
| 0.16 | 7.42 | 303.60 | 0.5 | 78.5 | 6.39 | 2.2 |
| 0.16 | 7.50 | 353.10 | 0.5 | 77.9 | 6.35 | 2.2 |
| 0.16 | 7.41 | 348.00 | 0.6 | 69.1 | 5.65 | . |
| 0.16 | 7.34 | 346.20 | 0.7 | 58.6 | 4.80 | . |
| 0.16 | 7.13 | 346.33 | 1.2 | 14.8 | 1.21 | . |
| 0.16 | 7.46 | 350.90 | 0.6 | 77.7 | 6.32 | 2.5 |
| 0.16 | 7.45 | 354.70 | 0.5 | 77.3 | 6.30 | 2.5 |
| . | . | . | . | . | . | . |
| 0.17 | 8.26 | 295.40 | 2.2 | 99.8 | 7.95 | 1.3 |
| 0.17 | 8.02 | 336.10 | 2.0 | 100.2 | 7.97 | 1.2 |
| 0.17 | 7.86 | 357.60 | 2.8 | 91.7 | 7.35 | . |
| 0.16 | 7.19 | 376.09 | 2.0 | 10.4 | 0.85 | . |
| 0.17 | 7.10 | 61.00 | 0.2 | 2.9 | 0.24 | . |
| 0.17 | 8.02 | 303.80 | 2.2 | 100.1 | 7.98 | 1.3 |
| 0.17 | 8.02 | 343.80 | 2.0 | 100.7 | 8.01 | 1.3 |
| . | . | . | . | . | . | . |
| 0.13 | 8.35 | 186.40 | 0.0 | 106.3 | 8.18 | 2.6 |
| 0.13 | 8.38 | 231.90 | 0.0 | 108.1 | 8.30 | 2.5 |
| 0.13 | 7.10 | 316.82 | 1.4 | 43.9 | 3.45 | . |
| 0.12 | 6.86 | 343.59 | 3.5 | 12.5 | 1.01 | . |
| 0.12 | 6.83 | 227.39 | 3.5 | 1.5 | 0.12 | . |
| 0.13 | 8.35 | 204.10 | 0.0 | 107.1 | 8.22 | 2.5 |
| 0.13 | 8.36 | 209.20 | 0.0 | 107.1 | 8.23 | 2.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.12 | 8.47 | 214.90 | 2.2 | 110.5 | 8.52 | 1.7 |
| 0.12 | 8.49 | 246.70 | 2.1 | 111.6 | 8.56 | 1.7 |
| 0.13 | 7.15 | 322.58 | 10.4 | 56.2 | 4.47 | . |
| 0.12 | 6.89 | 346.25 | 18.3 | 24.0 | 1.94 | . |
| 0.12 | 6.80 | 354.11 | 3.8 | 4.1 | 0.34 | . |
| 0.12 | 8.50 | 227.60 | 1.9 | 111.1 | 8.54 | 1.8 |
| 0.12 | 8.50 | 244.90 | 1.8 | 111.2 | 8.54 | 1.7 |
| . | . | . | . | . | . | . |
| 0.15 | 8.45 | 235.70 | 0.3 | 107.9 | 8.13 | 1.6 |
| 0.15 | 8.48 | 239.50 | 0.3 | 109.5 | 8.24 | 1.6 |
| 0.14 | 7.14 | 346.86 | 0.5 | 50.6 | 3.93 | . |
| 0.13 | 6.78 | 379.56 | 0.5 | 2.5 | 0.20 | . |
| 0.12 | 6.76 | 271.63 | 0.6 | 1.8 | 0.14 | . |
| 0.15 | 8.47 | 268.20 | 0.2 | 108.2 | 8.16 | 1.6 |
| 0.15 | 8.47 | 278.00 | 0.3 | 108.6 | 8.18 | 1.9 |
| . | . | . | . | . | . | . |
| 0.13 | 8.84 | 217.20 | 0.3 | 121.8 | 9.22 | 1.8 |
| 0.13 | 8.82 | 207.40 | 0.4 | 122.0 | 9.24 | 1.8 |
| 0.12 | 6.90 | 361.00 | 3.5 | 17.7 | 1.42 | . |
| 0.11 | 6.88 | 378.67 | 5.6 | 25.0 | 2.04 | . |
| 0.11 | 6.90 | 384.00 | 8.5 | 30.9 | 2.53 | . |
| 0.13 | 8.83 | 246.60 | 0.4 | 121.8 | 9.23 | 1.8 |
| 0.13 | 8.82 | 278.00 | 0.4 | 121.6 | 9.22 | 1.8 |
| . | . | . | . | . | . | . |
| 0.15 | 7.91 | 205.80 | 0.0 | 94.4 | 7.19 | 3.4 |
| 0.15 | 7.87 | 214.10 | 0.0 | 95.6 | 7.27 | 3.4 |
| 0.15 | 7.46 | 311.41 | 0.3 | 76.5 | 5.88 | . |
| 0.13 | 6.56 | -44.24 | 1.2 | 2.1 | 0.17 | . |
| 0.12 | 6.52 | 56.00 | 2.5 | 1.7 | 0.14 | . |
| 0.15 | 7.87 | 208.90 | 0.0 | 93.7 | 7.13 | 3.3 |
| 0.15 | 7.88 | 245.50 | 0.0 | 94.1 | 7.16 | 3.4 |
| | | | | | | |
| 0.14 | 7.73 | 90.70 | 0.0 | 99.3 | 8.08 | 3 |
| 0.14 | 7.67 | 69.70 | 0.0 | 98.2 | 7.99 | 3.1 |
| 0.14 | 7.58 | 69.00 | 0.0 | 93.2 | 7.59 | . |
| 0.14 | 6.74 | 76.00 | 0.0 | 14.2 | 1.17 | . |
| 0.14 | 6.70 | 74.67 | 0.0 | 8.7 | 0.72 | . |
| 0.14 | 7.73 | 78.80 | 0.0 | 99.8 | 8.12 | 3 |
| 0.14 | 7.72 | 75.30 | 0.0 | 99.7 | 8.10 | 2.9 |
| | | | | | | |
| 0.15 | 7.71 | 58.30 | 0.4 | 96.6 | 7.78 | 2.5 |
| 0.15 | 7.79 | 36.50 | 0.5 | 97.1 | 7.82 | 2.4 |
| 0.15 | 7.57 | 39.00 | 0.9 | 90.6 | 7.32 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.15 | 6.82 | 37.93 | 0.6 | 3.0 | 0.25 | . |
| 0.14 | 6.74 | 36.00 | 1.1 | 1.6 | 0.13 | . |
| 0.15 | 7.76 | 40.70 | 0.4 | 97.0 | 7.82 | 2.1 |
| 0.15 | 7.76 | 40.00 | 0.5 | 96.9 | 7.82 | 2.4 |
| | | | | | | |
| 0.15 | 7.85 | 49.90 | 0.2 | 101.0 | 7.95 | 2.8 |
| 0.15 | 7.83 | 36.60 | 0.2 | 101.8 | 7.98 | 2.8 |
| 0.15 | 7.53 | 39.88 | 0.5 | 87.7 | 6.96 | . |
| 0.14 | 6.80 | 14.67 | 0.6 | 2.4 | 0.20 | . |
| 0.14 | 6.68 | -19.08 | 0.3 | 1.6 | 0.13 | . |
| 0.15 | 7.82 | 43.70 | 0.2 | 101.1 | 7.95 | 2.8 |
| 0.15 | 7.81 | 42.90 | 0.1 | 101.6 | 7.98 | 2.7 |
| | | | | | | |
| 0.12 | 7.57 | 260.30 | 0.2 | 104.6 | 8.10 | 3.3 |
| 0.12 | 7.71 | 358.50 | 0.2 | 105.8 | 8.18 | 3.4 |
| 0.12 | 7.33 | 388.94 | 0.9 | 87.0 | 6.78 | . |
| 0.11 | 6.29 | 427.43 | 3.1 | 2.7 | 0.22 | . |
| 0.12 | 6.38 | -86.35 | 1.5 | 1.8 | 0.15 | . |
| 0.12 | 7.69 | 320.60 | 0.2 | 105.6 | 8.18 | 3.1 |
| 0.12 | 7.72 | 337.40 | 0.2 | 105.6 | 8.18 | 2.8 |
| . | . | . | . | . | . | . |
| 0.23 | 7.98 | 174.00 | 3.5 | 87.3 | 7.22 | 1.4 |
| 0.23 | 7.94 | 217.10 | 3.6 | 86.9 | 7.19 | 1.4 |
| 0.23 | 7.61 | 303.00 | 3.3 | 58.2 | 4.84 | . |
| 0.23 | 7.34 | 323.86 | 3.3 | 19.2 | 1.60 | . |
| 0.23 | 7.28 | 330.15 | 3.4 | 10.7 | 0.90 | . |
| 0.23 | 7.97 | 244.30 | 3.3 | 87.6 | 7.23 | 1.4 |
| 0.23 | 7.94 | 246.70 | 3.4 | 87.2 | 7.20 | 1.4 |
| . | . | . | . | . | . | . |
| 0.24 | 7.68 | 243.50 | 0.7 | 70.6 | 5.82 | 2 |
| 0.24 | 7.69 | 231.00 | 0.9 | 69.8 | 5.76 | 2 |
| 0.24 | 7.67 | 323.93 | 0.8 | 68.5 | 5.65 | . |
| 0.24 | 7.65 | 340.71 | 1.1 | 67.4 | 5.57 | . |
| 0.24 | 7.13 | -310.31 | 2.0 | 2.1 | 0.18 | . |
| 0.24 | 7.73 | 32.90 | 0.9 | 73.3 | 6.02 | 2 |
| 0.24 | 7.71 | 49.60 | 0.8 | 73.0 | 6.00 | 2 |
| . | . | . | . | . | . | . |
| 0.25 | 8.40 | 227.00 | 0.4 | 114.3 | 9.31 | 1.57 |
| 0.25 | 8.39 | 227.90 | 0.8 | 117.2 | 9.52 | 1.6 |
| 0.25 | 7.46 | 354.62 | 0.1 | 58.4 | 4.84 | . |
| 0.26 | 7.29 | -108.33 | 1.6 | 2.4 | 0.20 | . |
| 0.25 | 7.13 | -268.85 | 0.9 | 5.3 | 0.44 | . |
| 0.25 | 8.38 | 233.70 | 0.7 | 115.4 | 9.38 | 1.61 |
| 0.25 | 8.38 | 249.80 | 0.7 | 115.7 | 9.38 | 1.61 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.25 | 8.52 | 199.60 | 4.8 | 101.9 | 8.05 | 2.46 |
| 0.25 | 8.50 | 270.40 | 4.9 | 98.3 | 7.75 | 2.45 |
| 0.26 | 8.00 | 331.22 | 4.9 | 89.4 | 7.09 | . |
| 0.26 | 7.15 | -52.67 | 6.9 | 28.0 | 2.32 | . |
| 0.25 | 7.07 | -204.36 | 4.8 | 2.2 | 0.18 | . |
| 0.25 | 8.48 | 219.90 | 4.7 | 100.5 | 7.94 | 2.5 |
| 0.25 | 8.48 | 232.70 | 4.9 | 100.4 | 7.92 | 2.5 |
| . | . | . | . | . | . | . |
| 0.25 | 8.39 | 123.20 | 0.0 | 95.7 | 7.48 | 2.3 |
| 0.25 | 8.55 | 178.20 | 0.0 | 95.5 | 7.48 | 2.3 |
| 0.26 | 8.53 | 224.75 | 0.0 | 93.2 | 7.33 | . |
| 0.26 | 7.38 | -199.22 | 1.6 | 1.2 | 0.10 | . |
| 0.25 | 7.24 | -303.06 | 0.0 | 0.6 | 0.05 | . |
| 0.25 | 8.53 | 143.60 | 0.0 | 98.7 | 7.73 | 2.6 |
| 0.25 | 8.55 | 169.50 | 0.0 | 98.3 | 7.69 | 2.6 |
| . | . | . | . | . | . | . |
| 0.26 | 8.44 | 177.90 | 6.8 | 103.2 | 7.87 | 2.3 |
| 0.26 | 8.60 | 118.90 | 6.7 | 104.8 | 7.99 | 2.2 |
| 0.29 | 8.37 | 229.67 | 6.7 | 84.9 | 6.55 | . |
| 0.27 | 7.41 | -104.00 | 11.6 | 1.8 | 0.15 | . |
| 0.25 | 7.16 | -210.42 | 7.5 | 1.1 | 0.09 | . |
| 0.27 | 8.57 | 140.80 | 6.7 | 103.5 | 7.89 | 2.3 |
| 0.27 | 8.57 | 162.60 | 6.6 | 103.7 | 7.92 | 2.3 |
| . | . | . | . | . | . | . |
| 0.27 | 8.13 | 155.20 | 10.3 | 90.6 | 6.98 | 3 |
| 0.27 | 8.40 | 162.90 | 10.2 | 90.5 | 6.97 | 2.8 |
| 0.29 | 8.32 | 256.30 | 10.2 | 85.9 | 6.64 | . |
| 0.27 | 7.45 | -170.56 | 17.6 | 1.9 | 0.16 | . |
| 0.25 | 7.16 | -236.73 | 11.0 | 1.2 | 0.10 | . |
| 0.27 | 8.35 | 120.40 | 10.2 | 90.6 | 6.99 | 2.8 |
| 0.27 | 8.36 | 143.40 | 10.2 | 90.2 | 6.95 | 2.8 |
| . | . | . | . | . | . | . |
| 0.27 | 8.46 | 93.50 | 0.0 | 120.3 | 9.14 | 2.7 |
| 0.27 | 8.57 | 118.20 | 0.0 | 121.5 | 9.23 | 2.1 |
| 0.29 | 8.21 | 180.79 | 0.0 | 88.6 | 6.87 | . |
| 0.32 | 7.55 | -162.75 | 0.0 | 2.2 | 0.18 | . |
| 0.25 | 7.05 | -257.85 | 0.0 | 1.3 | 0.11 | . |
| 0.27 | 8.55 | 84.20 | 0.0 | 121.2 | 9.23 | 2.7 |
| 0.27 | 8.56 | 102.40 | 0.0 | 121.5 | 9.24 | 2.7 |
| . | . | . | . | . | . | . |
| 0.26 | 7.70 | 307.80 | 2.4 | 43.7 | 3.49 | 1.1 |
| 0.26 | 7.83 | 253.70 | 2.7 | 56.3 | 4.51 | 1.1 |
| 0.27 | 7.75 | 301.33 | 2.5 | 45.1 | 3.60 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.27 | 7.55 | -23.44 | 3.1 | 6.0 | 0.48 | . |
| 0.27 | 7.45 | -19.56 | 10.4 | 2.2 | 0.18 | . |
| 0.26 | 7.85 | 169.00 | 2.1 | 54.3 | 4.31 | 1.1 |
| 0.26 | 7.85 | 204.00 | 2.1 | 55.1 | 4.39 | 1.1 |
| . | . | . | . | . | . | . |
| 0.26 | 7.54 | 261.90 | 0.0 | 23.0 | 1.85 | 1.3 |
| 0.26 | 7.44 | 318.50 | 0.0 | 28.0 | 2.25 | 1.4 |
| 0.27 | 7.34 | 327.22 | 0.0 | 9.5 | 0.77 | . |
| 0.27 | 7.33 | 327.00 | 0.0 | 8.2 | 0.67 | . |
| 0.27 | 7.33 | 326.82 | 0.0 | 8.7 | 0.70 | . |
| 0.26 | 7.41 | 322.30 | 0.0 | 20.0 | 1.61 | 2.3 |
| 0.26 | 7.40 | 323.30 | 0.0 | 20.2 | 1.62 | 2.3 |
| . | . | . | . | . | . | . |
| 0.28 | 7.82 | 126.30 | 0.0 | 75.7 | 6.11 | 1.4 |
| 0.28 | 7.85 | 155.60 | 0.0 | 78.3 | 6.31 | 1.5 |
| 0.29 | 7.55 | 185.64 | 0.0 | 66.6 | 5.39 | . |
| 0.29 | 7.52 | 194.13 | 0.1 | 63.4 | 5.14 | . |
| 0.29 | 7.43 | 199.78 | 1.0 | 54.4 | 4.41 | . |
| 0.28 | 7.86 | 141.30 | 0.0 | 78.4 | 6.32 | 1.5 |
| 0.28 | 7.87 | 148.60 | 0.0 | 79.3 | 6.39 | 1.5 |
| . | . | . | . | . | . | . |
| 0.27 | 8.14 | 141.70 | 0.9 | 97.4 | 7.71 | 1.4 |
| 0.27 | 8.27 | 120.30 | 0.7 | 106.7 | 8.43 | 1.5 |
| 0.29 | 7.67 | 197.33 | 0.6 | 74.3 | 5.91 | . |
| 0.29 | 7.15 | 227.64 | 0.3 | 20.7 | 1.67 | . |
| 0.28 | 7.08 | 234.46 | 0.9 | 8.0 | 0.65 | . |
| 0.27 | 8.27 | 136.30 | 0.5 | 107.0 | 8.45 | 1.4 |
| 0.27 | 8.28 | 139.90 | 0.6 | 107.2 | 8.47 | 1.5 |
| . | . | . | . | . | . | . |
| 0.27 | 8.25 | 182.00 | 0.2 | 99.2 | 7.74 | 1.1 |
| 0.27 | 8.23 | 188.80 | 0.4 | 97.8 | 7.64 | 1.3 |
| 0.28 | 7.72 | 256.83 | 0.5 | 71.6 | 5.64 | . |
| 0.28 | 7.54 | 275.05 | 0.9 | 57.2 | 4.52 | . |
| 0.28 | 7.25 | 285.82 | 1.6 | 14.1 | 1.13 | . |
| 0.27 | 8.24 | 195.40 | 0.2 | 97.4 | 7.60 | 1.1 |
| 0.27 | 8.22 | 200.00 | 0.2 | 96.2 | 7.52 | 1.2 |
| . | . | . | . | . | . | . |
| 0.27 | 7.85 | 235.00 | 1.1 | 72.3 | 5.67 | 1.5 |
| 0.27 | 7.91 | 289.80 | 0.9 | 78.3 | 6.09 | 1.6 |
| 0.28 | 7.77 | 328.09 | 1.0 | 64.9 | 5.08 | . |
| 0.29 | 7.71 | 339.93 | 1.4 | 59.0 | 4.62 | . |
| 0.29 | 7.62 | 347.97 | 1.7 | 49.2 | 3.86 | . |
| 0.27 | 7.90 | 276.90 | 0.9 | 77.3 | 6.03 | 1.5 |
| 0.27 | 7.91 | 287.80 | 0.8 | 77.3 | 6.01 | 1.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.29 | 7.92 | 138.40 | 0.0 | 81.2 | 6.23 | 1.6 |
| 0.29 | 7.98 | 190.10 | 0.0 | 82.5 | 6.32 | 1.7 |
| 0.29 | 7.86 | 284.75 | 0.0 | 71.7 | 5.52 | . |
| 0.29 | 7.62 | 307.64 | 0.7 | 46.7 | 3.61 | . |
| 0.29 | 7.37 | 323.67 | 0.5 | 11.6 | 0.90 | . |
| 0.29 | 7.96 | 190.60 | 0.0 | 82.5 | 6.33 | 1.7 |
| 0.29 | 7.97 | 219.10 | 0.0 | 82.7 | 6.34 | 1.7 |
| . | . | . | . | . | . | . |
| 0.30 | 7.78 | 259.20 | 1.0 | 67.8 | 5.25 | 1.7 |
| 0.30 | 7.85 | 292.00 | 1.0 | 75.0 | 5.79 | 1.8 |
| 0.30 | 7.67 | 341.86 | 1.2 | 56.7 | 4.39 | . |
| 0.30 | 7.49 | 359.38 | 1.1 | 26.6 | 2.06 | . |
| 0.30 | 7.48 | 365.73 | 4.5 | 26.7 | 2.07 | . |
| 0.30 | 7.82 | 264.40 | 0.9 | 71.8 | 5.55 | 1.8 |
| 0.30 | 7.84 | 289.80 | 1.0 | 73.9 | 5.71 | 1.8 |
| . | . | . | . | . | . | . |
| 0.30 | 7.98 | 259.00 | 1.0 | 89.3 | 6.78 | 1.5 |
| 0.30 | 8.04 | 317.60 | 1.1 | 92.5 | 7.05 | 1.5 |
| 0.30 | 7.85 | 354.90 | 1.0 | 75.6 | 5.79 | . |
| 0.31 | 7.23 | 384.65 | 2.2 | 7.7 | 0.59 | . |
| 0.30 | 7.26 | 105.56 | 0.8 | 2.5 | 0.19 | . |
| 0.30 | 8.02 | 270.90 | 1.1 | 90.6 | 6.91 | 1.6 |
| 0.30 | 8.02 | 301.10 | 1.0 | 92.1 | 7.02 | 1.6 |
| . | . | . | . | . | . | . |
| 0.31 | 7.47 | 168.30 | 1.8 | 51.1 | 3.98 | 1.6 |
| 0.31 | 7.50 | 242.90 | 1.8 | 53.5 | 4.16 | 1.7 |
| 0.31 | 7.50 | 299.24 | 1.5 | 54.7 | 4.26 | . |
| 0.31 | 7.41 | 317.19 | 2.0 | 42.1 | 3.28 | . |
| 0.31 | 7.35 | 326.48 | 2.9 | 33.5 | 2.61 | . |
| 0.31 | 7.50 | 199.50 | 1.8 | 52.8 | 4.11 | 1.7 |
| 0.31 | 7.50 | 225.30 | 1.8 | 53.5 | 4.16 | 1.6 |
| | | | | | | |
| 0.32 | 7.97 | 75.60 | 2.2 | 87.0 | 7.15 | 1.7 |
| 0.32 | 7.99 | 65.70 | 2.1 | 86.9 | 7.15 | 1.8 |
| 0.32 | 8.00 | 64.00 | 1.8 | 85.3 | 7.03 | . |
| 0.32 | 7.90 | 64.00 | 3.2 | 77.5 | 6.39 | . |
| 0.32 | 7.91 | 62.91 | 7.4 | 77.7 | 6.41 | . |
| 0.32 | 7.99 | 69.00 | 2.2 | 86.2 | 7.10 | 1.8 |
| 0.32 | 7.99 | 67.20 | 2.1 | 86.9 | 7.15 | 1.8 |
| | | | | | | |
| 0.34 | 7.87 | 72.80 | 3.2 | 80.1 | 6.57 | 1.5 |
| 0.34 | 7.91 | 58.40 | 2.8 | 82.2 | 6.75 | 1.5 |
| 0.34 | 7.86 | 59.90 | 3.1 | 76.1 | 6.27 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.34 | 7.85 | 60.00 | 3.4 | 73.5 | 6.06 | . |
| 0.34 | 7.83 | 60.00 | 4.9 | 71.2 | 5.87 | . |
| 0.34 | 7.91 | 63.80 | 2.7 | 82.1 | 6.75 | 1.5 |
| 0.34 | 7.91 | 63.00 | 2.7 | 82.4 | 6.78 | 1.5 |
| | | | | | | |
| 0.33 | 7.83 | 83.00 | 3.4 | 83.6 | 6.79 | 1.4 |
| 0.33 | 8.05 | 61.40 | 3.2 | 98.1 | 7.92 | 1.3 |
| 0.33 | 7.87 | 65.14 | 3.1 | 81.2 | 6.61 | . |
| 0.33 | 7.79 | 65.53 | 4.6 | 72.9 | 5.94 | . |
| 0.34 | 7.45 | 67.63 | 4.9 | 42.8 | 3.50 | . |
| 0.33 | 7.90 | 65.20 | 3.8 | 83.3 | 6.77 | 1.2 |
| 0.33 | 7.90 | 66.10 | 3.7 | 82.9 | 6.74 | 1.3 |
| | | | | | | |
| 0.31 | 7.72 | 276.00 | 3.5 | 98.4 | 7.94 | 1.4 |
| 0.31 | 7.81 | 330.30 | 4.0 | 93.4 | 7.47 | 1.3 |
| 0.31 | 7.70 | 362.85 | 4.1 | 80.4 | 6.45 | . |
| 0.31 | 7.46 | 382.24 | 6.6 | 55.1 | 4.45 | . |
| . | . | . | . | . | . | . |
| 0.31 | 7.76 | 305.10 | 3.7 | 90.8 | 7.25 | 1.2 |
| 0.31 | 7.71 | 334.70 | 3.6 | 85.5 | 6.85 | 1.2 |
| . | . | . | . | . | . | . |
| 0.21 | 7.88 | 264.80 | 3.4 | 89.8 | 7.48 | 3.1 |
| 0.21 | 7.96 | 215.10 | 3.5 | 94.1 | 7.84 | 2.5 |
| 0.21 | 7.53 | 334.44 | 3.3 | 68.6 | 5.73 | . |
| 0.21 | 7.45 | 364.11 | 3.3 | 59.9 | 5.01 | . |
| 0.21 | 7.44 | 370.09 | 3.3 | 58.7 | 4.91 | . |
| 0.21 | 7.94 | 293.10 | 3.4 | 96.8 | 7.99 | 2.5 |
| 0.21 | 7.95 | 329.50 | 3.4 | 96.6 | 7.98 | 2.5 |
| . | . | . | . | . | . | . |
| 0.22 | 8.22 | 207.20 | 0.0 | 99.3 | 8.27 | 3.5 |
| 0.22 | 8.21 | 220.80 | 0.0 | 100.0 | 8.32 | 3.5 |
| 0.22 | 8.18 | 310.25 | 0.0 | 99.0 | 8.26 | . |
| 0.22 | 8.03 | 328.44 | 0.0 | 91.2 | 7.62 | . |
| 0.22 | 7.55 | 352.95 | 0.0 | 59.3 | 4.96 | . |
| 0.22 | 8.14 | 244.30 | 0.0 | 97.2 | 8.07 | 4 |
| 0.22 | 8.14 | 266.30 | 0.0 | 96.6 | 8.01 | 4 |
| . | . | . | . | . | . | . |
| 0.23 | 8.69 | 197.50 | 0.1 | 129.6 | 10.60 | 2.25 |
| 0.23 | 8.76 | 177.50 | 0.0 | 129.8 | 10.62 | 2.3 |
| 0.23 | 8.56 | 293.50 | 0.0 | 117.1 | 9.69 | . |
| 0.23 | 7.21 | 358.22 | 0.0 | 33.5 | 2.80 | . |
| 0.23 | 7.21 | 366.91 | 0.0 | 29.2 | 2.45 | . |
| 0.23 | 8.73 | 198.20 | 0.0 | 121.0 | 9.91 | 2.4 |
| 0.23 | 8.72 | 220.20 | 0.0 | 120.6 | 9.85 | 2.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.23 | 8.76 | 194.40 | 3.8 | 109.4 | 8.70 | 3.1 |
| 0.23 | 8.74 | 166.00 | 3.8 | 109.9 | 8.75 | 2.8 |
| 0.24 | 8.64 | 333.75 | 3.7 | 104.1 | 8.34 | . |
| 0.23 | 7.14 | 412.13 | 4.0 | 6.6 | 0.55 | . |
| 0.23 | 7.04 | 240.60 | 3.2 | 3.6 | 0.30 | . |
| 0.23 | 8.74 | 241.90 | 3.7 | 109.2 | 8.69 | 2.9 |
| 0.23 | 8.73 | 264.80 | 3.7 | 109.3 | 8.70 | 2.9 |
| . | . | . | . | . | . | . |
| 0.22 | 8.46 | 268.70 | 0.0 | 110.2 | 8.77 | 2.2 |
| 0.22 | 8.59 | 195.10 | 22.3 | 111.9 | 8.92 | 2.2 |
| 0.23 | 8.51 | 357.09 | 21.5 | 105.2 | 8.50 | . |
| 0.23 | 6.98 | 431.50 | 22.0 | 8.2 | 0.68 | . |
| 0.23 | 6.92 | 54.38 | 21.0 | 2.3 | 0.20 | . |
| 0.22 | 8.61 | 208.80 | 5.4 | 119.1 | 9.41 | 2.7 |
| 0.22 | 8.62 | 266.60 | 5.4 | 124.0 | 9.84 | 2.7 |
| . | . | . | . | . | . | . |
| 0.24 | 8.56 | 143.40 | 0.0 | 100.8 | 7.81 | 2.7 |
| 0.23 | 8.58 | 149.60 | 0.0 | 101.4 | 7.87 | 3 |
| 0.25 | 8.54 | 294.33 | 0.0 | 97.9 | 7.61 | . |
| 0.25 | 7.59 | 363.60 | 0.0 | 3.1 | 0.25 | . |
| 0.23 | 7.42 | 56.25 | 0.0 | 0.7 | 0.06 | . |
| 0.23 | 8.57 | 157.40 | 0.0 | 101.8 | 7.89 | 2.7 |
| 0.23 | 8.58 | 177.10 | 0.0 | 101.8 | 7.89 | 2.7 |
| . | . | . | . | . | . | . |
| 0.25 | 8.09 | 115.70 | 10.0 | 89.6 | 7.00 | 3.1 |
| 0.25 | 8.29 | 169.60 | 10.0 | 90.1 | 7.02 | 2.8 |
| 0.27 | 8.26 | 249.44 | 10.0 | 86.4 | 6.79 | . |
| 0.27 | 7.55 | 284.56 | 10.5 | 4.4 | 0.35 | . |
| 0.24 | 7.26 | 0.46 | 10.1 | 1.5 | 0.13 | . |
| 0.25 | 8.24 | 171.60 | 10.0 | 89.9 | 7.01 | 3.2 |
| 0.25 | 8.26 | 180.40 | 10.0 | 89.9 | 7.01 | 3.2 |
| . | . | . | . | . | . | . |
| 0.23 | 8.24 | 249.30 | 0.0 | 100.6 | 7.89 | 2.2 |
| 0.23 | 8.44 | 304.60 | 0.0 | 102.1 | 8.00 | 1.9 |
| 0.24 | 8.23 | 324.78 | 0.0 | 87.0 | 6.89 | . |
| 0.22 | 7.44 | 365.62 | 0.0 | 29.6 | 2.40 | . |
| 0.20 | 7.23 | 378.20 | 0.0 | 19.6 | 1.62 | . |
| 0.23 | 8.37 | 299.20 | 0.0 | 101.1 | 7.92 | 2.3 |
| 0.23 | 8.38 | 300.20 | 0.0 | 100.9 | 7.91 | 2.3 |
| . | . | . | . | . | . | . |
| 0.23 | 8.40 | 209.30 | 0.0 | 103.5 | 8.12 | 1.8 |
| 0.23 | 8.44 | 197.90 | 0.0 | 101.3 | 7.99 | 2 |
| 0.24 | 8.37 | 285.11 | 0.0 | 95.5 | 7.53 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.24 | 7.61 | 299.22 | 0.0 | 6.1 | 0.49 | . |
| 0.22 | 7.33 | 317.00 | 0.0 | 2.5 | 0.21 | . |
| 0.23 | 8.38 | 260.30 | 0.0 | 98.4 | 7.74 | 1.9 |
| 0.23 | 8.39 | 261.80 | 0.0 | 99.5 | 7.82 | 1.9 |
| . | . | . | . | . | . | . |
| 0.23 | 8.61 | 239.80 | 3.1 | 105.6 | 8.32 | 2.8 |
| 0.23 | 8.61 | 221.30 | 3.0 | 106.0 | 8.33 | 3 |
| 0.24 | 8.33 | 295.56 | 3.0 | 83.9 | 6.66 | . |
| 0.23 | 7.56 | 330.43 | 6.2 | 9.4 | 0.76 | . |
| 0.21 | 7.67 | 331.67 | 11.9 | 40.7 | 3.33 | . |
| 0.23 | 8.63 | 260.80 | 3.1 | 108.7 | 8.55 | 2.8 |
| 0.23 | 8.64 | 263.00 | 3.0 | 109.2 | 8.58 | 2.8 |
| . | . | . | . | . | . | . |
| 0.23 | 8.31 | 203.60 | 0.0 | 105.0 | 8.38 | 2.9 |
| 0.23 | 8.38 | 220.10 | 0.0 | 105.5 | 8.43 | 2.9 |
| 0.24 | 8.36 | 306.56 | 0.0 | 102.1 | 8.18 | . |
| 0.23 | 7.43 | 339.58 | 0.0 | 9.1 | 0.75 | . |
| 0.24 | 7.34 | 346.73 | 0.0 | 19.2 | 1.57 | . |
| 0.23 | 8.33 | 224.40 | 0.0 | 103.7 | 8.28 | 2.9 |
| 0.23 | 8.33 | 248.60 | 0.0 | 103.4 | 8.25 | 2.9 |
| . | . | . | . | . | . | . |
| 0.23 | 7.80 | 331.30 | 0.0 | 59.6 | 4.95 | 3 |
| 0.23 | 7.63 | 338.60 | 0.0 | 57.1 | 4.75 | 2.8 |
| 0.23 | 7.52 | 376.00 | 0.0 | 52.1 | 4.35 | . |
| 0.23 | 7.52 | 374.44 | 0.0 | 51.2 | 4.27 | . |
| 0.23 | 7.51 | 372.35 | 0.0 | 50.7 | 4.23 | . |
| 0.23 | 7.56 | 382.20 | 0.0 | 55.5 | 4.61 | 2.8 |
| 0.23 | 7.57 | 386.90 | 0.0 | 55.4 | 4.61 | 2.8 |
| . | . | . | . | . | . | . |
| 0.23 | 7.42 | 318.30 | 0.0 | 55.9 | 4.68 | 3.2 |
| 0.23 | 7.43 | 348.80 | 0.0 | 56.2 | 4.70 | 3.1 |
| 0.23 | 7.44 | 350.60 | 0.0 | 52.4 | 4.40 | . |
| 0.23 | 7.43 | 348.89 | 0.0 | 52.3 | 4.39 | . |
| 0.23 | 7.44 | 345.00 | 0.0 | 52.1 | 4.37 | . |
| 0.23 | 7.42 | 323.40 | 0.0 | 55.8 | 4.67 | 3 |
| 0.23 | 7.46 | 316.80 | 0.0 | 54.4 | 4.56 | 3 |
| . | . | . | . | . | . | . |
| 0.23 | 6.56 | 264.50 | 0.0 | 83.0 | 6.92 | 3.3 |
| 0.24 | 7.62 | 236.80 | 0.0 | 82.2 | 6.86 | 3.2 |
| 0.23 | 7.61 | 354.30 | 0.0 | 77.8 | 6.52 | . |
| 0.23 | 7.47 | 357.54 | 0.0 | 60.5 | 5.08 | . |
| 0.23 | 7.46 | 354.80 | 0.0 | 60.2 | 5.06 | . |
| 0.24 | 7.24 | 268.10 | 0.0 | 80.3 | 6.70 | 3.1 |
| 0.23 | 7.27 | 297.60 | 0.0 | 79.7 | 6.66 | 3.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.24 | 8.51 | 230.50 | 0.0 | 101.9 | 8.46 | 3.7 |
| 0.24 | 8.48 | 232.30 | 0.0 | 103.0 | 8.56 | 3.7 |
| 0.23 | 8.32 | 317.00 | 0.0 | 95.5 | 7.95 | . |
| 0.23 | 8.30 | 320.00 | 0.0 | 92.4 | 7.71 | . |
| 0.24 | 7.63 | 339.00 | 0.0 | 15.4 | 1.29 | . |
| 0.24 | 8.36 | 283.20 | 0.0 | 101.9 | 8.47 | 3.6 |
| 0.24 | 8.38 | 289.70 | 0.0 | 101.7 | 8.45 | 3.6 |
| . | . | . | . | . | . | . |
| 0.23 | 8.61 | 143.40 | 0.4 | 115.1 | 9.11 | 2.6 |
| 0.23 | 8.65 | 142.20 | 0.3 | 117.9 | 9.30 | 2.7 |
| 0.24 | 8.26 | 205.87 | 0.3 | 105.8 | 8.45 | . |
| 0.23 | 7.05 | 257.00 | 1.4 | 17.5 | 1.44 | . |
| 0.22 | 6.96 | 260.88 | 3.2 | 5.2 | 0.43 | . |
| 0.23 | 8.66 | 126.90 | 0.4 | 117.3 | 9.24 | 2.7 |
| 0.23 | 8.66 | 137.10 | 0.4 | 118.0 | 9.28 | 2.6 |
| . | . | . | . | . | . | . |
| 0.23 | 8.77 | 193.60 | 0.0 | 125.1 | 9.92 | 2.3 |
| 0.23 | 8.77 | 185.40 | 0.0 | 127.4 | 10.03 | 2.3 |
| 0.24 | 7.86 | 249.11 | 0.0 | 74.9 | 5.98 | . |
| 0.23 | 6.95 | 278.75 | 4.3 | 2.6 | 0.21 | . |
| 0.23 | 6.93 | 270.67 | 4.8 | 1.8 | 0.15 | . |
| 0.23 | 8.72 | 162.30 | 0.0 | 121.0 | 9.52 | 2.2 |
| 0.23 | 8.74 | 188.80 | 0.1 | 123.3 | 9.70 | 2.2 |
| . | . | . | . | . | . | . |
| 0.23 | 8.42 | 195.60 | 0.6 | 94.4 | 7.50 | 1.9 |
| 0.23 | 8.49 | 279.80 | 0.7 | 99.6 | 7.87 | 1.8 |
| 0.24 | 8.20 | 289.10 | 0.8 | 81.2 | 6.48 | . |
| 0.23 | 7.22 | 341.64 | 18.6 | 13.2 | 1.07 | . |
| 0.22 | 7.22 | 350.37 | 31.6 | 13.9 | 1.14 | . |
| 0.23 | 8.47 | 215.60 | 0.6 | 97.9 | 7.78 | 2 |
| 0.23 | 8.49 | 236.60 | 0.6 | 98.9 | 7.86 | 2 |
| . | . | . | . | . | . | . |
| 0.22 | 8.87 | 230.10 | 0.5 | 119.6 | 9.38 | 1.2 |
| 0.22 | 8.88 | 279.00 | 0.4 | 120.8 | 9.46 | 1.4 |
| 0.22 | 8.82 | 298.22 | 0.3 | 109.0 | 8.59 | . |
| 0.23 | 7.38 | 356.42 | 0.0 | 4.1 | 0.33 | . |
| 0.23 | 7.29 | 367.80 | 0.0 | 2.1 | 0.17 | . |
| 0.22 | 8.89 | 252.80 | 0.4 | 121.1 | 9.48 | 1.3 |
| 0.22 | 8.89 | 269.80 | 0.5 | 121.2 | 9.49 | 1.4 |
| . | . | . | . | . | . | . |
| 0.23 | 8.40 | 266.40 | 0.4 | 104.0 | 7.99 | 3.4 |
| 0.23 | 8.50 | 305.10 | 0.4 | 104.9 | 8.05 | 3.2 |
| 0.23 | 8.33 | 335.36 | 0.3 | 92.3 | 7.13 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.22 | 7.24 | 388.37 | 0.4 | 3.3 | 0.27 | . |
| 0.21 | 7.28 | 390.94 | 0.4 | 8.5 | 0.69 | . |
| 0.23 | 8.45 | 286.60 | 0.4 | 103.3 | 7.93 | 3.5 |
| 0.23 | 8.48 | 305.90 | 0.5 | 103.5 | 7.95 | 3.5 |
| . | . | . | . | . | . | . |
| 0.25 | 8.39 | 185.60 | 0.0 | 104.5 | 8.12 | 2.2 |
| 0.25 | 8.39 | 261.30 | 0.0 | 105.6 | 8.18 | 2.4 |
| 0.25 | 8.29 | 297.12 | 0.0 | 96.2 | 7.54 | . |
| 0.25 | 7.18 | 353.65 | 0.0 | 4.4 | 0.36 | . |
| 0.23 | 7.11 | 159.94 | 0.0 | 1.8 | 0.15 | . |
| 0.25 | 8.44 | 235.90 | 0.0 | 106.4 | 8.25 | 2.2 |
| 0.25 | 8.43 | 257.90 | 0.0 | 106.8 | 8.30 | 2.3 |
| | | | | | | |
| 0.25 | 7.91 | 58.30 | 0.0 | 96.7 | 8.02 | 2.2 |
| 0.25 | 7.96 | 49.30 | 0.0 | 97.2 | 8.07 | 2.4 |
| 0.25 | 7.65 | 50.00 | 0.0 | 74.5 | 6.21 | . |
| 0.25 | 7.52 | 47.00 | 0.0 | 59.0 | 4.92 | . |
| 0.25 | 7.52 | 46.48 | 0.0 | 57.2 | 4.77 | . |
| 0.25 | 7.92 | 51.60 | 0.0 | 96.1 | 7.96 | 2.2 |
| 0.25 | 7.97 | 49.60 | 0.0 | 98.1 | 8.12 | 2.3 |
| | | | | | | |
| 0.24 | 7.83 | 45.50 | 0.3 | 86.8 | 7.20 | 2.6 |
| 0.24 | 7.95 | 38.40 | 0.0 | 84.4 | 7.40 | 2.6 |
| 0.24 | 7.76 | 39.84 | 0.0 | 68.3 | 5.69 | . |
| 0.24 | 7.58 | 39.00 | 0.0 | 54.9 | 4.58 | . |
| 0.24 | 7.65 | 38.44 | 0.0 | 59.4 | 4.95 | . |
| 0.24 | 7.92 | 40.60 | 0.0 | 90.0 | 7.45 | 2.6 |
| 0.24 | 7.94 | 40.40 | 0.1 | 90.9 | 7.57 | 2.7 |
| | | | | | | |
| 0.25 | 8.23 | 45.50 | 0.0 | 109.6 | 8.94 | 3.1 |
| 0.25 | 8.32 | 31.50 | 0.0 | 111.0 | 9.04 | 3.2 |
| 0.25 | 8.26 | 32.40 | 0.0 | 106.0 | 8.69 | . |
| 0.25 | 7.67 | 33.53 | 0.0 | 60.9 | 5.07 | . |
| 0.25 | 7.46 | 32.78 | 0.0 | 41.3 | 3.44 | . |
| 0.25 | 8.31 | 33.60 | 0.0 | 110.5 | 9.01 | 3.5 |
| 0.25 | 8.32 | 32.70 | 0.0 | 110.6 | 9.01 | 3.4 |
| | | | | | | |
| 0.23 | 8.23 | 227.00 | 0.1 | 110.5 | 8.88 | 2.7 |
| 0.23 | 8.34 | 244.30 | 0.1 | 109.5 | 8.80 | 2.8 |
| 0.23 | 8.18 | 314.06 | 0.0 | 100.9 | 8.21 | . |
| 0.23 | 7.51 | 357.32 | 0.0 | 51.0 | 4.19 | . |
| 0.22 | 7.09 | 377.64 | 0.0 | 4.6 | 0.38 | . |
| 0.23 | 8.28 | 217.10 | 0.0 | 109.5 | 8.79 | 2.8 |
| 0.23 | 8.29 | 263.60 | 0.0 | 109.8 | 8.82 | 2.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.26 | 8.31 | 208.50 | 0.8 | 102.2 | 8.23 | 1.5 |
| 0.26 | 8.27 | 236.50 | 1.0 | 103.1 | 8.30 | 1.5 |
| 0.27 | 7.85 | 296.11 | 0.9 | 75.8 | 6.16 | . |
| 0.28 | 7.18 | 311.00 | 0.1 | 2.7 | 0.22 | . |
| 0.29 | 7.12 | 299.00 | 2.2 | 2.0 | 0.17 | . |
| 0.26 | 8.28 | 249.00 | 1.5 | 102.6 | 8.26 | 1.5 |
| 0.26 | 8.27 | 259.50 | 1.0 | 102.6 | 8.26 | 1.5 |
| . | . | . | . | . | . | . |
| 0.27 | 8.32 | 186.20 | 0.0 | 106.1 | 8.51 | 1.5 |
| 0.27 | 8.28 | 183.80 | 0.6 | 106.7 | 8.54 | 1.5 |
| 0.28 | 7.80 | 330.64 | 0.0 | 75.8 | 6.14 | . |
| 0.30 | 7.18 | -103.08 | 0.0 | 7.3 | 0.60 | . |
| 0.30 | 7.09 | -111.00 | 2.4 | 2.0 | 0.17 | . |
| 0.27 | 8.27 | 193.40 | 0.0 | 105.2 | 8.43 | 2 |
| 0.27 | 8.26 | 229.50 | 0.0 | 105.9 | 8.40 | 2 |
| . | . | . | . | . | . | . |
| 0.28 | 8.21 | 191.60 | 1.1 | 106.7 | 8.64 | 1.59 |
| 0.28 | 8.19 | 215.50 | 5.3 | 106.0 | 8.59 | 1.57 |
| 0.28 | 7.66 | 333.89 | 5.3 | 76.2 | 6.25 | . |
| 0.28 | 7.14 | 373.81 | 9.5 | 22.7 | 1.90 | . |
| 0.27 | 7.10 | 385.50 | 14.8 | 30.3 | 2.54 | . |
| 0.28 | 8.17 | 201.90 | 2.1 | 106.1 | 8.60 | 1.6 |
| 0.28 | 8.16 | 215.20 | 2.1 | 105.7 | 8.56 | 1.6 |
| . | . | . | . | . | . | . |
| 0.25 | 8.48 | 198.20 | 7.4 | 113.9 | 8.92 | 2.3 |
| 0.25 | 8.44 | 288.10 | 9.8 | 109.1 | 8.55 | 2.1 |
| 0.28 | 7.36 | 375.69 | 9.2 | 34.4 | 2.76 | . |
| 0.29 | 7.05 | 399.33 | 9.7 | 2.4 | 0.20 | . |
| 0.28 | 7.01 | 392.06 | 10.7 | 2.0 | 0.17 | . |
| 0.25 | 8.48 | 192.60 | 4.1 | 107.4 | 8.42 | 2.15 |
| 0.25 | 8.46 | 270.90 | 6.6 | 108.6 | 8.49 | 2.15 |
| . | . | . | . | . | . | . |
| 0.23 | 8.31 | 76.90 | 0.0 | 103.4 | 8.00 | 2 |
| 0.23 | 8.41 | 184.30 | 0.0 | 106.2 | 8.22 | 2.1 |
| 0.28 | 7.41 | 260.31 | 0.0 | 7.2 | 0.57 | . |
| 0.29 | 7.19 | -0.90 | 0.0 | 1.1 | 0.09 | . |
| 0.28 | 7.13 | -108.56 | 0.0 | 0.8 | 0.07 | . |
| 0.23 | 8.43 | 172.30 | 0.0 | 105.7 | 8.19 | 1.8 |
| 0.23 | 8.43 | 177.90 | 0.0 | 106.1 | 8.20 | 1.8 |
| . | . | . | . | . | . | . |
| 0.20 | 8.92 | 140.80 | 8.8 | 150.2 | 11.31 | 1.1 |
| 0.20 | 8.93 | 172.20 | 8.7 | 153.1 | 11.53 | 1.2 |
| 0.28 | 7.64 | 267.00 | 7.9 | 3.7 | 0.29 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.31 | 7.33 | -61.38 | 7.2 | 1.4 | 0.12 | . |
| 0.30 | 7.24 | -171.00 | 10.2 | 1.0 | 0.09 | . |
| 0.20 | 8.92 | 177.10 | 8.7 | 149.8 | 11.28 | 1.2 |
| 0.20 | 8.92 | 185.50 | 8.5 | 149.8 | 11.31 | 1.2 |
| . | . | . | . | . | . | . |
| 0.24 | 8.05 | 113.40 | 10.0 | 96.3 | 7.42 | 4.3 |
| 0.24 | 8.27 | 206.80 | 10.0 | 97.1 | 7.47 | 3.8 |
| 0.25 | 8.22 | 270.56 | 9.8 | 93.1 | 7.19 | . |
| 0.31 | 7.17 | -49.67 | 12.4 | 1.9 | 0.16 | . |
| 0.31 | 7.02 | -222.46 | 11.5 | 1.3 | 0.11 | . |
| 0.24 | 8.22 | 185.30 | 10.0 | 95.7 | 7.36 | 4 |
| 0.24 | 8.22 | 219.70 | 10.0 | 95.7 | 7.37 | 4 |
| . | . | . | . | . | . | . |
| 0.24 | 8.31 | 156.20 | 0.0 | 99.0 | 7.61 | 2.8 |
| 0.24 | 8.49 | 271.80 | 0.0 | 101.5 | 7.79 | 3 |
| 0.26 | 8.39 | 299.11 | 0.0 | 95.6 | 7.36 | . |
| 0.29 | 7.36 | 80.75 | 0.0 | 2.8 | 0.22 | . |
| 0.30 | 7.02 | -389.90 | 1.9 | 0.8 | 0.07 | . |
| 0.24 | 8.47 | 262.50 | 0.0 | 101.1 | 7.77 | 2.9 |
| 0.24 | 8.48 | 263.00 | 0.0 | 101.2 | 7.78 | 2.9 |
| . | . | . | . | . | . | . |
| 0.25 | 7.87 | 151.40 | 0.0 | 106.0 | 8.16 | 1.9 |
| 0.25 | 8.40 | 187.50 | 0.0 | 106.8 | 8.22 | 2.1 |
| 0.28 | 7.69 | 288.15 | 0.0 | 44.8 | 3.49 | . |
| 0.29 | 7.23 | 311.00 | 6.1 | 1.9 | 0.16 | . |
| 0.30 | 7.03 | -60.30 | 12.8 | 1.5 | 0.13 | . |
| 0.26 | 8.26 | 184.10 | 0.0 | 105.2 | 8.11 | 2.1 |
| 0.25 | 8.30 | 205.30 | 0.0 | 105.5 | 8.13 | 2.1 |
| . | . | . | . | . | . | . |
| 0.26 | 8.02 | 154.40 | 0.0 | 101.4 | 7.89 | 2.6 |
| 0.26 | 8.42 | 140.60 | 3.2 | 101.8 | 7.92 | 2.6 |
| 0.28 | 8.18 | 288.46 | 3.2 | 80.4 | 6.29 | . |
| 0.32 | 7.41 | 299.83 | 4.0 | 3.0 | 0.24 | . |
| 0.32 | 7.28 | -109.00 | 5.4 | 1.9 | 0.16 | . |
| 0.26 | 8.37 | 199.30 | 3.3 | 102.3 | 7.96 | 2.6 |
| 0.26 | 8.88 | 223.80 | 3.3 | 102.3 | 7.96 | 2.6 |
| . | . | . | . | . | . | . |
| 0.26 | 8.41 | 230.40 | 0.0 | 118.1 | 9.28 | 2.6 |
| 0.26 | 8.42 | 239.80 | 0.0 | 119.0 | 9.34 | 2.5 |
| 0.29 | 7.54 | 322.00 | 0.0 | 20.6 | 1.63 | . |
| 0.30 | 7.09 | 259.31 | 0.0 | 2.5 | 0.20 | . |
| 0.31 | 7.08 | 319.50 | 0.0 | 2.5 | 0.21 | . |
| 0.26 | 8.36 | 286.40 | 0.0 | 115.3 | 9.05 | 2.5 |
| 0.26 | 8.36 | 289.60 | 0.0 | 115.8 | 9.06 | 2.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| . | . | . | . | . | . | . |
| 0.29 | 8.79 | 202.60 | 0.0 | 107.3 | 8.75 | 1.8 |
| 0.29 | 8.53 | 235.50 | 0.0 | 108.5 | 8.85 | 1.9 |
| 0.29 | 8.27 | 320.60 | 0.0 | 90.2 | 7.41 | . |
| 0.30 | 7.71 | 336.62 | 0.0 | 18.5 | 1.53 | . |
| 0.30 | 7.57 | -54.94 | 0.0 | 2.5 | 0.21 | . |
| 0.29 | 8.51 | 243.80 | 0.0 | 107.2 | 8.80 | 1.8 |
| 0.29 | 8.48 | 279.30 | 0.0 | 107.8 | 8.79 | 1.8 |
| . | . | . | . | . | . | . |
| 0.29 | 8.50 | 257.70 | 0.0 | 96.7 | 7.92 | 1.7 |
| 0.29 | 8.17 | 338.90 | 0.0 | 96.0 | 7.85 | 1.6 |
| 0.30 | 8.10 | 330.15 | 0.0 | 77.6 | 6.38 | . |
| 0.30 | 7.67 | 339.00 | 0.0 | 26.5 | 2.19 | . |
| 0.30 | 7.54 | -75.50 | 0.0 | 6.6 | 0.54 | . |
| 0.29 | 8.25 | 323.00 | 0.0 | 97.2 | 7.96 | 2 |
| 0.29 | 8.24 | 326.40 | 0.0 | 97.0 | 7.94 | 2 |
| . | . | . | . | . | . | . |
| 0.28 | 7.42 | 242.30 | 0.0 | 101.1 | 8.18 | 1.6 |
| 0.29 | 8.09 | 268.30 | 0.0 | 100.2 | 8.11 | 1.7 |
| 0.29 | 8.07 | 336.86 | 0.0 | 92.4 | 7.50 | . |
| 0.30 | 7.44 | -132.75 | 0.0 | 4.7 | 0.39 | . |
| 0.31 | 7.31 | -163.45 | 0.0 | 2.6 | 0.21 | . |
| 0.29 | 7.90 | 271.50 | 0.0 | 98.3 | 7.96 | 1.6 |
| 0.29 | 7.98 | 288.20 | 0.0 | 98.5 | 7.98 | 1.6 |
| . | . | . | . | . | . | . |
| 0.26 | 8.23 | 142.70 | 0.0 | 107.3 | 8.40 | 1.8 |
| 0.26 | 8.24 | 151.50 | 0.0 | 108.6 | 8.51 | 1.9 |
| 0.29 | 7.45 | 192.13 | 0.0 | 45.6 | 3.64 | . |
| 0.31 | 7.13 | -274.53 | 0.1 | 2.0 | 0.16 | . |
| 0.31 | 7.10 | -302.57 | 0.0 | 1.6 | 0.14 | . |
| 0.26 | 8.24 | 141.90 | 0.1 | 108.3 | 8.50 | 1.7 |
| 0.26 | 8.24 | 148.90 | 0.0 | 108.3 | 8.50 | 1.7 |
| . | . | . | . | . | . | . |
| 0.25 | 8.47 | 173.20 | 0.7 | 123.6 | 9.72 | 1.3 |
| 0.26 | 8.50 | 152.80 | 0.8 | 124.7 | 9.80 | 1.3 |
| 0.29 | 7.14 | 235.87 | 0.0 | 10.2 | 0.82 | . |
| 0.28 | 7.10 | 250.31 | 6.7 | 37.0 | 3.07 | . |
| 0.28 | 7.12 | 262.60 | 20.2 | 47.1 | 3.93 | . |
| 0.26 | 8.48 | 157.90 | 0.8 | 122.3 | 9.63 | 1.4 |
| 0.26 | 8.48 | 175.20 | 0.7 | 122.5 | 9.65 | 1.4 |
| . | . | . | . | . | . | . |
| 0.25 | 8.43 | 204.20 | 0.9 | 108.6 | 8.41 | 1.7 |
| 0.25 | 8.43 | 256.40 | 0.9 | 109.4 | 8.45 | 1.7 |
| 0.27 | 8.05 | 299.67 | 0.9 | 82.5 | 6.42 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.32 | 7.25 | 283.62 | 0.3 | 1.8 | 0.15 | . |
| 0.31 | 7.18 | 235.25 | 4.0 | 1.3 | 0.10 | . |
| 0.25 | 8.45 | 237.80 | 0.8 | 110.2 | 8.52 | 1.6 |
| 0.25 | 8.45 | 252.70 | 0.8 | 110.2 | 8.53 | 1.6 |
| . | . | . | . | . | . | . |
| 0.28 | 8.36 | 202.30 | 0.8 | 106.6 | 8.30 | 2 |
| 0.28 | 8.39 | 224.30 | 0.8 | 109.1 | 8.50 | 1.8 |
| 0.30 | 8.12 | 254.25 | 1.2 | 90.2 | 7.07 | . |
| 0.35 | 7.17 | 139.52 | 0.6 | 2.1 | 0.17 | . |
| 0.34 | 7.13 | -41.24 | 2.1 | 1.5 | 0.13 | . |
| 0.27 | 8.40 | 206.30 | 0.9 | 109.4 | 8.53 | 1.8 |
| 0.28 | 8.40 | 220.30 | 0.9 | 109.5 | 8.54 | 1.8 |
| . | . | . | . | . | . | . |
| 0.31 | 8.28 | 238.60 | 0.0 | 95.4 | 7.27 | 3.2 |
| 0.31 | 8.30 | 270.80 | 0.0 | 96.7 | 7.37 | 3 |
| 0.31 | 8.28 | 303.35 | 0.0 | 95.6 | 7.30 | . |
| 0.35 | 7.15 | 286.41 | 0.7 | 2.8 | 0.23 | . |
| 0.36 | 6.96 | -162.80 | 0.0 | 1.9 | 0.16 | . |
| 0.31 | 8.30 | 216.60 | 0.0 | 96.9 | 7.38 | 3 |
| 0.31 | 8.30 | 248.70 | 0.0 | 96.8 | 7.38 | 3 |
| . | . | . | . | . | . | . |
| 0.31 | 8.34 | 231.20 | 0.0 | 105.9 | 8.12 | 3 |
| 0.31 | 8.34 | 252.80 | 0.1 | 107.0 | 8.19 | 3 |
| 0.31 | 8.14 | 325.28 | 0.0 | 89.3 | 6.88 | . |
| 0.34 | 7.25 | 364.67 | 1.0 | 6.2 | 0.49 | . |
| 0.36 | 6.94 | -126.15 | 3.2 | 2.2 | 0.18 | . |
| 0.31 | 8.34 | 235.10 | 0.2 | 106.4 | 8.16 | 3 |
| 0.31 | 8.34 | 273.00 | 0.1 | 106.4 | 8.16 | 2.9 |
| | | | | | | |
| 0.30 | 8.24 | 114.80 | 1.2 | 103.6 | 8.45 | 1.7 |
| 0.30 | 8.27 | 110.50 | 1.2 | 103.9 | 8.48 | 1.5 |
| 0.30 | 8.23 | 113.00 | 1.6 | 98.0 | 8.01 | . |
| 0.30 | 7.40 | 120.00 | 0.6 | 12.8 | 1.06 | . |
| 0.31 | 7.23 | 36.52 | 93.0 | 1.3 | 0.11 | . |
| 0.30 | 8.27 | 110.80 | 1.3 | 103.5 | 8.43 | 1.4 |
| 0.30 | 8.27 | 110.70 | 1.3 | 103.4 | 8.43 | 1.4 |
| | | | | | | |
| 0.30 | 8.20 | 87.20 | 2.7 | 100.7 | 8.18 | 1.7 |
| 0.30 | 8.23 | 84.80 | 1.7 | 101.8 | 8.26 | 1.5 |
| 0.30 | 8.15 | 84.09 | 2.3 | 94.6 | 7.71 | . |
| 0.32 | 7.36 | 72.95 | 1.3 | 2.5 | 0.20 | . |
| 0.32 | 7.29 | 21.20 | 1.1 | 1.4 | 0.11 | . |
| 0.30 | 8.22 | 81.30 | 1.7 | 101.0 | 8.20 | 1.5 |
| 0.30 | 8.22 | 80.90 | 1.6 | 100.9 | 8.19 | 1.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.28 | 8.04 | 84.40 | 2.4 | 106.2 | 8.46 | 1.4 |
| 0.28 | 8.17 | 78.90 | 2.4 | 106.7 | 8.48 | 1.3 |
| 0.28 | 7.81 | 90.38 | 2.1 | 76.1 | 6.16 | . |
| 0.30 | 7.25 | -19.78 | 1.4 | 1.9 | 0.15 | . |
| 0.28 | 8.09 | 77.40 | 2.7 | 105.8 | 8.44 | 1.3 |
| 0.28 | 8.14 | 77.20 | 2.4 | 106.4 | 8.47 | 1.3 |
| | | | | | | |
| 0.27 | 8.13 | 81.90 | 2.5 | 100.6 | 7.98 | 1.1 |
| 0.27 | 8.08 | 84.20 | 2.5 | 101.9 | 8.06 | 1.2 |
| 0.27 | 7.44 | 89.70 | 2.7 | 48.3 | 3.87 | . |
| 0.30 | 6.81 | -34.88 | 1.5 | 1.9 | 0.16 | . |
| 0.30 | 6.77 | -62.38 | 1.2 | 1.8 | 0.14 | . |
| 0.27 | 8.04 | 81.90 | 2.1 | 101.3 | 8.02 | 1.1 |
| 0.27 | 8.07 | 80.90 | 2.1 | 101.6 | 8.05 | 1.1 |
| . | . | . | . | . | . | . |
| 0.35 | 8.65 | 254.30 | 3.9 | 116.6 | 9.06 | 1.3 |
| 0.34 | 8.80 | 279.90 | 8.4 | 162.9 | 12.54 | 0.8 |
| 0.35 | 7.48 | 383.35 | 3.0 | 5.8 | 0.46 | . |
| 0.32 | 6.95 | -27.06 | 3.5 | 2.0 | 0.16 | . |
| 0.33 | 6.66 | -171.95 | 5.4 | 1.6 | 0.14 | . |
| 0.35 | 8.76 | 273.80 | 5.3 | 148.4 | 11.42 | 1 |
| 0.35 | 8.77 | 291.10 | 5.9 | 149.3 | 11.49 | 1.1 |
| . | . | . | . | . | . | . |
| 0.17 | 7.52 | 269.70 | 5.4 | 94.9 | 7.51 | 1.2 |
| 0.17 | 7.77 | 280.70 | 4.9 | 98.0 | 7.74 | 1.1 |
| 0.20 | 6.68 | -67.50 | 12.6 | 2.6 | 0.21 | . |
| 0.24 | 6.10 | -122.35 | 12.1 | 1.8 | 0.15 | . |
| 0.17 | 7.64 | 270.00 | 5.2 | 93.8 | 7.44 | 1.1 |
| 0.17 | 7.68 | 311.50 | 5.2 | 94.5 | 7.47 | 1.1 |
| . | . | . | . | . | . | . |
| 0.12 | 7.66 | 268.00 | 0.0 | 102.5 | 7.91 | 3.7 |
| 0.12 | 7.79 | 292.30 | 0.0 | 102.7 | 7.92 | 3.7 |
| 0.12 | 7.30 | 366.90 | 0.2 | 78.0 | 6.06 | . |
| 0.12 | 6.32 | 27.16 | 3.3 | 2.4 | 0.19 | . |
| 0.12 | 6.20 | -69.80 | 2.1 | 1.9 | 0.15 | . |
| 0.12 | 7.71 | 281.50 | 0.0 | 102.5 | 7.91 | 3.8 |
| 0.12 | 7.76 | 312.30 | 0.0 | 102.5 | 7.91 | 3.7 |
| . | . | . | . | . | . | . |
| 0.30 | 7.67 | 311.30 | 3.9 | 90.2 | 7.14 | 1.3 |
| 0.30 | 7.85 | 288.00 | 3.8 | 94.5 | 7.44 | 1.3 |
| 0.30 | 7.75 | 358.24 | 4.8 | 80.9 | 6.43 | . |
| 0.30 | 7.53 | 377.90 | 3.3 | 55.5 | 4.42 | . |
| 0.31 | 7.32 | 391.39 | 8.3 | 32.1 | 2.57 | . |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.30 | 7.66 | 308.40 | 4.4 | 84.5 | 6.69 | 1.3 |
| 0.30 | 7.72 | 335.40 | 4.2 | 83.4 | 6.61 | 1.3 |
| . | . | . | . | . | . | . |
| 0.31 | 7.87 | 308.10 | 1.8 | 94.3 | 7.32 | 1.4 |
| 0.30 | 8.03 | 309.70 | 1.6 | 103.9 | 8.06 | 1.6 |
| 0.30 | 7.82 | 355.76 | 4.9 | 80.5 | 6.27 | . |
| 0.31 | 7.51 | 377.35 | 6.3 | 51.6 | 4.05 | . |
| 0.31 | 7.43 | 382.75 | 9.2 | 43.3 | 3.40 | . |
| 0.30 | 7.98 | 311.30 | 1.8 | 101.4 | 7.89 | 1.4 |
| 0.30 | 8.00 | 328.30 | 1.9 | 102.8 | 7.97 | 1.5 |
| . | . | . | . | . | . | . |
| 0.21 | 7.90 | 275.00 | 2.8 | 120.5 | 9.41 | 1.1 |
| 0.21 | 8.03 | 296.50 | 2.6 | 122.6 | 9.57 | 1 |
| 0.25 | 7.03 | 382.37 | 1.8 | 6.0 | 0.48 | . |
| 0.27 | 6.78 | -97.41 | 2.6 | 1.9 | 0.16 | . |
| 0.27 | 6.76 | -112.00 | 6.9 | 1.7 | 0.14 | . |
| 0.21 | 8.00 | 272.10 | 2.6 | 121.7 | 9.50 | 1.1 |
| 0.21 | 8.01 | 303.80 | 2.7 | 121.9 | 9.52 | 1 |