Company: San Diego Gas & Electric Company (U 902 M)

Proceeding: 2024 General Rate Case Application: A.22-05-015/-016 (cons.)

Exhibit: SDG&E-240

# REBUTTAL TESTIMONY OF KENNETH E. SCHIERMEYER (ELECTRIC CUSTOMER FORECAST)

## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA



May 2023

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#### I. **SUMMARY OF DIFFERENCES**

### TABLE KS-1 SUMMARY OF POSITIONS<sup>1</sup>

REBUTTAL TESTIMONY OF

KENNETH E. SCHIERMEYER

(ELECTRIC CUSTOMER FORECAST)

RESIDENTIAL EI	LECTRIC CU	STOMER FO	DRECAST
	Base Year 2021	Test Year 2024	Average Annual % Change
SDG&E	1,329,156	1,369,484	1.0%
CAL ADVOCATES	1,329,156	1,362,436	0.8%
TURN	1,329,156	1,361,013	0.8%

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The Public Advocates Office of the California Public Utilities Commission (Cal Advocates) and The Utility Reform Network (TURN) do not take issue with San Diego Gas & Electric Company's (SDG&E) 2024 forecast for Small Commercial, Medium/Large Commercial/Industrial, Agriculture, and Lighting Electric customers, but do take issue with SDG&E's Electrical Residential Forecast, with the differences shown in Table KS-1 above.

#### II. INTRODUCTION

This rebuttal testimony regarding SDG&E's request for Electric Customer Forecast addresses the following testimony from other parties:

- Cal Advocates, as submitted by Maricela Sierra (Ex. CA-18-E (Sierra)), dated April 2023.
- TURN, as submitted by Jaime McGovern (Exhibit TURN-14), dated March 2023.
- UCAN, as submitted by Dr. Eric Charles Woychik (Ex. UCAN-01 (Woychik)), dated March 2023

The testimony of UCAN addresses the general topic area of Electric Customer Forecast, but does not provide any alternative proposal to the forecasts proposed by SDG&E.

As a preliminary matter, the absence of a response to any particular issue in this rebuttal testimony does not imply or constitute agreement by SDG&E with the proposal or contention made by these or other parties. The electric customer forecasts contained in SDG&E's direct testimony are based on the data available at the time of the General Rate Case (GRC) application filing. This approach is consistent with the Rate Case Plan, which does not contemplate forecasts being updated continuously.

The purpose of this rebuttal testimony is to address issues raised in intervenor testimony regarding the residential electric customer forecasts proposed in SDG&E's direct testimony. In that testimony, SDG&E proposed to develop electric customer forecasts using statistical models based on economic and demographic data, seasonal patterns and other inputs that influence customer growth. Economic and demographic data for this electric customer forecast are based on a blend of Moody's and Global Insights forecasting services. This blended methodology was adopted by the California Public Utilities Commission (Commission or CPUC) in the Test Year (TY) 2019 GRC Phase 1 Decision (D.19-09-051).

The alternative methodology proposed by Cal Advocates and TURN for residential electric customer forecast uses a historical 10-year moving average of the level of housing activity from data provided by SDG&E in workpapers. Cal Advocates and TURN's proposed methodology would replace the use of forecasts developed by professional economic forecasting services provided by Moody's and Global Insights. SDG&E disagrees with their proposal and demonstrates below why SDG&E's forecasts are reasonable.

#### A. Cal Advocates

The following is a summary of Cal Advocates' position(s) on Residential Electric Customer Forecasts:<sup>2</sup>

• Cal Advocates reduces SDG&E's Electric Residential Customers Forecast for TY2024. Cal Advocates recommends 1,340,505 for 2022, 1,350,850 for 2023 and 1,362,436 for TY2024 for Electric Residential Customer Forecast based on a 10-year rolling average of historical housing data.

<sup>&</sup>lt;sup>2</sup> Ex. CA-18-E (Sierra) at 3:17-24.

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21 22 Cal Advocates does not take issue with SDG&E's Forecast for Small Commercial, Medium/Large Commercial/Industrial, Agriculture, and Lighting Electric customer schedules for TY2024.

#### В. **TURN**

The following is a summary of TURN's position(s) on Residential Electric Customer Forecasts:3

- TURN's Electric Residential Customers Forecast for TY2024 was initially based on a 10-quarter rolling average of historical housing data. TURN subsequently revised its forecast to be based on a 10-year moving average. TURN provided its revised forecast to SDG&E after SDG&E sent TURN a data request to verify the time periods that were used in the residential electric customer forecast. SDG&E notes that the revised forecast was provided late, specifically during the time that is allotted for SDG&E to respond to intervenor testimony through rebuttal. SDG&E is responding to the revised workpapers provided by TURN on April 27, 2023.4
- TURN's revised recommended residential electric customer forecast is 1,339,912 for 2022, 1,350,237 for 2023 and 1,361,013 for TY2024 for Electric Residential Customer Forecast<sup>5</sup>, based on a 10-year rolling average of historical housing data.<sup>6</sup>
- TURN asserts that SDG&E's residential electric model historically overforecasts growth in the relevant customer class because SDG&E allegedly relies on inflated housing data for its forecasts.

Ex. TURN-14 (McGovern) at 3:15.

SCG-SDGE-TURN-010, Question 1b, attached as Appendix E at KES-E-2.

Screenshot of Tab "11-GrcSummary" of workpapers for Ex. TURN-14, SCG-SDGE-TURN-002 attch3 erratum, attached as Appendix G at KES-G-2.

Screenshots of SCG-SDGE-TURN-002 attch3 erratum, attached as Appendix F at KES-F-2.

#### C. UCAN

The following is a summary of UCAN's position(s) on Residential Electric Customer Forecasts:<sup>7</sup>

 UCAN alleges that SDG&E's forecasts are based on backward-looking data that are not representative of the forward-looking nature of forecasts to reflect the future.

## III. REBUTTAL TO CRITIQUES OF SDG&E'S ELECTRIC CUSTOMER FORECAST

This rebuttal testimony addresses issues raised by intervening parties regarding the residential electric customer forecast. Both Cal Advocates and TURN put forth a proposed residential electric customer forecast using a new methodology based on a historical 10-year moving average of the level of housing activity from data provided by SDG&E in workpapers. However, as discussed further below, not only do the workpapers of Cal Advocates and TURN fail to support 10-year moving average, in fact Cal Advocates reflects the use of a 10-quarter moving average. This rebuttal testimony explains why neither of these apparent alternatives—10-year and 10-quarter moving averages—should be adopted in this proceeding.

The moving average methodologies proposed by Cal Advocates and TURN would replace SDG&E's longstanding practice of relying on forecasts developed by professional economic forecasting services provided by Moody's and Global Insights. SDG&E disagrees with the proposed alternative methodology and urges the Commission to reject it for two fundamental reasons.

As an initial matter, forecasting based on historic averages can make sense in certain contexts. This would include customer classes that do not have an associated cyclical economic forecast available as a driver. For example, for rate schedules that are closed, changes are associated with customers leaving the rate schedule because new customers are not allowed to join the closed rate. An averaging approach could be appropriate in such circumstances. However, an averaging approach is not appropriate for SDG&E's broad, open residential rate classes as proposed by Cal Advocates and TURN.

<sup>&</sup>lt;sup>7</sup> Ex. UCAN-01 (Woychik) at 125:13-22.

<sup>&</sup>lt;sup>8</sup> Ex. CA-18-E (Sierra) at 14:1-4; and Ex. TURN-14 (McGovern) at 4: 6-8.

In this case, a historical moving average methodology, such as proposed by Cal Advocates and TURN, is backward-looking, while forecasts are forward-looking in nature. This means that a forecast of projected future housing activity, that simply relies on history alone, would ignore the potential for future changes to economic activity, such as recessions or periods of rapid economic growth, changes in potential policies impacting housing activity, and other events that impact the economy. Also, the selection of the period included can materially impact the results. For instance, using a shorter period of exclusively backward-looking data to develop a moving average may include only parts of a normal business cycle within the average. Thus, any particular average may capture more recession time periods versus periods of high economic growth, or vice versa.

Focusing on the 10-quarter moving average that Cal Advocates used highlights the problems with capturing a short historical period, thereby being extremely sensitive to whatever atypical events occurred within the limited period of time covered by the average. Indeed, even a ten-year period is problematic because the historical periods that weigh heavily in the ten-year moving average used by TURN includes an overhang on the front end from years that were impacted by financial and housing crises and on the back end, years with COVID-19 pandemic impacts. The COVID-19 pandemic, in particular, was an unprecedented event in recent human history and presented substantial uncertainty in and shocks to the economy. As such, it cannot fairly be described as reasonably representative of the going forward period in which the forecasts to be adopted in this proceeding will cover.

Moreover, the proposed methodology by Cal Advocates and TURN is inconsistent with established Commission precedent, which recognizes that while forecasting is inherently inaccurate to some degree, the watchword is reasonableness. The Commission approved SDG&E's previous use of the exact methodology it proposes to use in this proceeding—a 50/50 blend of two separate third-party forecasts—which allowed SDG&E to balance alternative views of each economic forecasting service into the forecasts, on which rates ultimately would be established. The Commission explained its reasoning in SDG&E's TY 2019 GRC Phase 1 Decision (D.19-09-051), as follows:

It is not established that Moody's forecast is certain to be accurate or that Global Insight's forecast is certain to be inaccurate. We find it more prudent to rely on both forecasts to minimize the impact of a vastly incorrect forecast from either company. Therefore, we find that relying on both sets of data is

reasonable and that the forecast of 1,468,391 electric customers for TY2019 should be adopted.<sup>9</sup>

#### A. Cal Advocates

Cal Advocates takes issue with the TY 2024 electric customer forecast for the residential sector by analyzing data from the TY 2019 GRC. To replace SDG&E's proposed forecast, which uses the same methodology accepted by the Commission in D.19-09-051, Cal Advocates proposes using a 10-year moving average for an alternative Cal Advocates-sponsored residential electric customer forecast. The core of Cal Advocates' rationale is the following statement, "... historically in the 2019 GRC, the Housing Completion 50/50 Blend was inflated as illustrated when compared with the actual recorded data by SDG&E in this GRC for TY 2024." 10

However, Cal Advocates' critique of SDG&E's residential forecasts is undermined by the fact that Cal Advocates accepts SDG&E's forecasts for small commercial and medium/large commercial/industrial electric customers. SDG&E developed its forecasts for commercial electric customers by using the historical relationship of residential customer growth and commercial customer growth. In other words, the forecast of commercial and industrial customers is dependent on the residential electric customer forecast, which uses a forecast of housing completions as the main model driver. Cal Advocates accepts this for developing the commercial electric customer forecasts and even states it does not challenge these forecasts. Yet, for the residential electric customer forecast, Cal Advocates has selectively critiqued the use of housing completion forecasts that are based on the same methodology.

To replace SDG&E's Commission-accepted forecast methodology, Cal Advocates proposes a new approach to forecast residential electric customers. Cal Advocates states, "Cal Advocates utilized the same Excel model as SDG&E and applied a 10-year moving average to the 50/50 Blend (Q Basis) to normalize SDG&E's Housing Completions data to the model." In a data request response, Cal Advocates asserts the following: "[t]he most recent decade is more stable than 20-30 years ago. In addition, the relationship of customer connections and housing patterns is changing. A 10-year average captures the most recent changes in the economy." 12

<sup>&</sup>lt;sup>9</sup> See D.19-09-051 at 669-670.

<sup>&</sup>lt;sup>10</sup> Ex. CA-18-E (Sierra) at 13:9-11.

<sup>11</sup> Ex. CA-18-E (Sierra) at 14:1-3.

<sup>&</sup>lt;sup>12</sup> SCG-SDGE-PAO-003, Question 3, attached as Appendix C, at KES-C-3.

SDG&E requested Cal Advocates' electric customer workpapers and determined that Cal Advocates actually used a 10-quarter moving average to forecast housing completions rather than a 10-year average. Shown in Table KS-2 below are the time periods that Cal Advocates used in workpapers<sup>13</sup> to develop each time period in the forecast.

Table KS-2
Cal Advocates' Time Periods Used to Develop Housing Completion Forecast

Housing Completion Forecast Period	Historical Basis to Develop Forecast
Q1-2022	Q4-2019 through Q1-2022
Q2-2022	Q1-2020 through Q2-2022, Adjusted
Q3-2022	Q2-2020 through Q3-2022, Adjusted
Q4-2022	Q3-2020 through Q4-2022, Adjusted
Q1-2023	Q4-2020 through Q1-2023, Adjusted
Q2-2023	Q1-2021 through Q2-2023, Adjusted
Q3-2023	Q2-2021 through Q3-2023, Adjusted
Q4-2023	Q3-2021 through Q4-2023, Adjusted
Q1-2024	Q4-2021 through Q1-2024, Adjusted
Q2-2024	Q1-2022 through Q2-2024 from SDG&E 50/50 Blend Forecast
Q3-2024	Q2-2022 through Q3-2024 from SDG&E 50/50 Blend Forecast
Q4-2024	Q3-2023 through Q4-2024 from SDG&E 50/50 Blend Forecast

SDG&E disagrees with Cal Advocates' stated proposal to use a 10-year moving average of housing completions, as well as the 10-quarter moving average of housing completions that is actually reflected in Cal Advocates' workpapers. In SDG&E's view, neither is a reasonable basis for the forecast of future housing completions. As stated above, a moving average approach applies a backward view to forecast future economic conditions. As presented in Table KS-2, a majority of Cal Advocates' forecasted housing completions for the 10-quarter moving average are based on COVID-19 historical data points. This implies that future economic conditions will reflect COVID-19 impacts from the past, an absurd proposition that Cal Advocates does not explain let alone substantiate. Indeed, given the inconstancy between Cal

Screenshots from Cal Advocates' workpapers for Ex. CA-18-E, attached as Appendix D at KES-D-2.

Advocates' workpapers and Cal Advocates' testimony, it seems that the 10-quarter approach could be the product of significant calculation errors.

SDG&E notes as well that there are also inconsistencies in the way that Cal Advocates uses data in their moving average to develop their forecasts of housing completions. For example, Cal Advocates is using a blend of historical and forecast data to develop their forecast for Q2-2022 through Q1-2024. Also, Cal Advocates is using SDG&E's 50/50 blend forecast of Moody's and Global Insights to develop their forecast for Q2-2024 through Q4-2024. In other words, at the same time that Cal Advocates is arguing against using housing completion forecasts developed by Moody's and Global Insights, they are in fact using those same forecasts to develop their proposed forecasts for Q2-2024 through Q4-2024 as shown in Table KS-2.

As shown above, SDG&E disagrees with Cal Advocates' proposal to use a historical moving average of housing completions as a basis for the forecast of future housing completions because it is a backward view of future forecasted economic conditions. Cal Advocates had difficulties implementing their own methodology as the historical basis does not match their testimony and there is a mix of historical and forecasted data included in the proposed averages. Therefore, Cal Advocates' proposed methodologies are not reasonable and should not be adopted by the Commission.

#### B. TURN

TURN takes issue with SDG&E's TY 2024 forecast for the residential electric customer sector by analyzing data from the TY 2016 GRC and TY 2019 GRC. Like Cal Advocates, TURN develops alternative residential electric customer forecasts, but TURN's workpapers appear to be intended to use its proposed 10-year moving average. TURN explains its forecast methodology as follows: "TURN utilized SDG&E's model but inserted housing data that reflects the average quarterly new housing construction from the most recent ten years." <sup>14</sup>

In TURN's testimony, Figure 10 is labeled "Growth in electric residential meters-SDG&E 2016 GRC" and Figure 11 is labeled "Growth in residential electric meters," which SDG&E interprets as showing the growth from SDG&E's 2019 GRC. SDG&E agrees with the

<sup>&</sup>lt;sup>14</sup> Ex. TURN-14 (McGovern) at 27:2-3.

<sup>&</sup>lt;sup>15</sup> *Id.* at 14:1-8, Figures 10 and 11, attached as Appendix B at KES-B-2.

data shown in these two Figures. Forecasting inherently involves a degree of uncertainty, and the likelihood that forecasts will perfectly match experience is low.

However, TURN conveniently leaves out not only that it was SDG&E that realized that the 2016 GRC forecast could be improved, but also that SDG&E in fact took steps to implement changes in the forecasting process in the TY 2019 GRC in order to improve its forecast. The TY 2016 GRC used housing starts from only one economic forecasting service, Global Insights. To address the forecasting difference that SDG&E observed, SDG&E used a 50/50 blend of two different economic forecasts produced by different services, Moody's and Global Insights, in SDG&E's very next GRC, which was the TY 2019 GRC. This reduced the forecast error in the 2019 GRC and the methodology change was accepted by the CPUC in the TY 2019 GRC. As discussed above, in acknowledging that forecasting involves uncertainty, the Commission approved SDG&E's use of the 50/50 blend as reasonable.

SDG&E analyzed TURN's proposed methodology. SDG&E sent TURN a follow-up data request, after receiving TURN's workpapers, to verify the historical periods that were used in the calculation of TURN's 10-year moving average forecast of housing completions. In TURN's response to the data request, TURN provided an errata workpaper file that contained a revised residential electric customer forecast, although even as revised, TURN's workpaper still does not illustrate a full 10-year historical moving average. Table KS-3 contains SDG&E's analysis of the historical periods that comprise TURN's purportedly 10-year moving average forecast of housing completions. <sup>16</sup>

Table KS-3
TURN's Revised Time Periods Used to Develop Housing Completion Forecast

<b>Housing Completion Forecast Period</b>	Historical Basis to Develop Forecast
Q1-2022	Q1-2021*(1-0.07618849907)
Q2-2022	Q2-2021*(1-0.07618849907)
Q3-2022	Q3-2021*(1-0.07618849907)
Q4-2022	Q4-2021*(1-0.07618849907)
Q1-2023	Q1 Data from 2013 through 2022
Q2-2023	Q2 Data from 2013 through 2022

Screenshots from TURN's revised workpapers for Ex. TURN-14, SCG-SDGE-TURN-002 attch3 erratum, tab "5-ResFcastQ," attached as Appendix F at KES-F-2.

Housing Completion Forecast Period	Historical Basis to Develop Forecast
Q3-2023	Q3 Data from 2013 through 2022
Q4-2023	Q4 Data from 2013 through 2022
Q1-2024	Q4 Data from 2014 through 2023
Q2-2024	Q2 Data from 2014 through 2023
Q3-2024	Q3 Data from 2014 through 2023
Q4-2024	Q4 Data from 2014 through 2023

As a threshold matter, SDG&E disagrees with the time periods used in TURN's revised workpapers, which still do not represent a 10-year historical moving average. As shown in Table KS-3, TURN's forecast of 2022 housing completions (Q1-2022 through Q4-2022) used only 2021, a single year, to develop the forecast. Additionally, the 2021 values were reduced by applying a factor (1 minus 0.07618849907, or 0.92381150093) to calculate 2022 housing completions. TURN indicated that the reduction reflected an adjustment that "is equal to the difference between 2021 and 2022 western housing starts." SDG&E questions the use of housing starts to adjust housing completions for reasons related to the lag of the two concepts. Also, the adjustment is being made based on the Federal Reserve's West Census Region, which includes multiple states, but applies that multi-state data to information at the San Diego County Metro Statistical Area. TURN's testimony does not explain how the geographically large, eleven-state area represented by the West Census Region relates to or is a reasonable proxy for SDG&E's service territory, which is located in two counties in Southern California. The adjustment factor therefore seems arbitrary.

Turning to 2023, TURN's forecast of 2023 housing completions are based on data from 2013 through 2022. This time period represents a mix of history (2013 through 2021) and forecast (2022). Likewise, TURN's forecasts for 2024 housing completions are based on data from 2014 through 2023. This time period also represents a mix of history (2014 through 2021) and forecast (2022 and 2023). In other words, despite criticizing SDG&E's use of vendor forecasts in developing the utility's proposed residential customer forecasts, TURN itself uses

TURN's response to data request SCG-SDGE-TURN-010, attached as Appendix E at KES-E-2.

The West Census Region includes California, Oregon, Washington, Idaho, Nevada, Montana, Wyoming, Utah, Colorado, New Mexico, and Arizona.

forecast data to develop the moving averages of allegedly historical data on which it bases its own proposed forecasts.

As discussed above with respect to Cal Advocates, SDG&E also disagrees with TURN's proposal to use a historical moving average of housing completions as a basis for the forecast of future housing completions for reasons including that it is a backward view of future forecasted economic conditions. Also, SDG&E questions the implementation of TURN's methodology. In addition to being backward-looking, TURN's proposed methodology uses a blend of history and forecast to develop its moving average; therefore, the Commission should reject it.

#### C. UCAN

While Cal Advocates and TURN criticize SDG&E for using economic forecast data in developing its proposed electric customer forecasts, UCAN attacks SDG&E from the other direction. UCAN states, "The [utility's] residential forecast was based on quarterly historical data from 1990 through 2021." As a general matter, SDG&E agrees with UCAN that a residential electric customer forecast should include a forecasted driver of future housing activity. However, SDG&E should point out that SDG&E is in fact using a projection of housing activity as provided by professional forecasting services, Moody's and Global Insights. This is stated in the direct testimony of Kenneth E. Schiermeyer (Ex. SDG&E-40) at KES-2:2-7:

SDG&E develops electric customer forecasts using statistical models based on economic and demographic data, seasonal patterns and other inputs that influence customer growth. Economic and demographic data for this electric customer forecast are based on December 2021 information released from IHS Global Insight's Regional Economic Service and December 2021 information released from Moody's Regional Economic Service. A 50/50 blend of these forecasts allows SDG&E to reflect the different views of each economic forecasting service.

Evidently, UCAN misunderstands whether SDG&E used an economic forecasting service, which it did. In fact, as discussed in this rebuttal testimony, a core criticism of SDG&E's forecast methodology by two other parties, is SDG&E's use of economic forecasting services in in this GRC. Cal Advocates states, "SDG&E uses Housing Completion as a main driver which is a 50/50 Blend of the forecast from IHS Global Insight's Regional Economic

<sup>&</sup>lt;sup>19</sup> Ex. UCAN-01 (Woychik) at 125:15-16.

Service and Moody's Regional Economic Service"<sup>20</sup> Also, TURN cites SDG&E's direct testimony when describing the use of economic forecasting services.<sup>21</sup>

SDG&E used data from 1990 through 2021 as the estimation time period for the development of the residential electric customer forecast regression model and used housing completion projections from Moody's and Global Insight to drive the forecast.

While UCAN apparently misunderstands SDG&E's position, UCAN's argument lends support to SDG&E's position that its use of economic forecasting services is appropriate.

#### IV. CONCLUSION

To summarize, Cal Advocates and TURN propose residential electric customer forecasts based on a historical moving average of housing completions that were provided in SDG&E's electric customer forecast workpapers. Cal Advocates indicated that a 10-year moving average should be used for the residential electric customer forecast in direct testimony but its workpapers revealed that Cal Advocates actually used a 10-quarter moving average instead. Originally, TURN also provided a residential electric customer forecast based on a 10-quarter moving average. However, TURN later revised its residential electric customer forecast to be based on a 10-year moving average, although not all of the data comprising the averages is actually historical data. Regardless, Cal Advocates and TURN fail to demonstrate why a historical period, either a 10-quarter or a 10-year, is preferable to SDG&E's approach. In addition, both Cal Advocates and TURN appear to have trouble with implementing their own forecast methodology, as both described it as a 10-year moving average but workpapers revealed they had actually calculated 10-quarter moving averages. Regardless, SDG&E disagrees with the use of historical moving average of housing completions as a basis for the forecast of future housing completions because it is a backward view of future forecasted economic conditions.

SDG&E understands that the potential for variability and differences exist in analyses of economic forecasting concepts and believes that using a 50/50 blend of data from these two highly-regarded economic forecasting firms provides an unbiased and balanced view of the forecast period. This methodology was accepted as reasonable by the CPUC in the TY 2019 GRC Phase 1 Decision (D.19-09-051).

Ex. CA-18-E (Sierra) at 13:4-7 (citing to A.22-05-016, Ex. SDG&E-40 Prepared Direct Testimony of Kenneth Schiermeyer at KES-2.).

<sup>&</sup>lt;sup>21</sup> Ex. TURN-14 (McGovern) at 12:14-16 - 13:1-4 (citing to A.22-05-016, Ex. SDG&E-40 at KES-2).

1	Accordingly, the Commission should adopt SDG&E's electric customer forecasts, as put
2	forth in my direct testimony, without revision.
3	This concludes my prepared rebuttal testimony.

## APPENDIX A

## **GLOSSARY OF TERMS**

ACRONYM	DEFINITION
SDG&E	San Diego Gas & Electric Company
Cal Advocates	The Public Advocates Office of the California Public Utilities
	Commission
TURN	The Utility Reform Network
UCAN	The Utility Consumers Action Network
GRC	General Rate Case

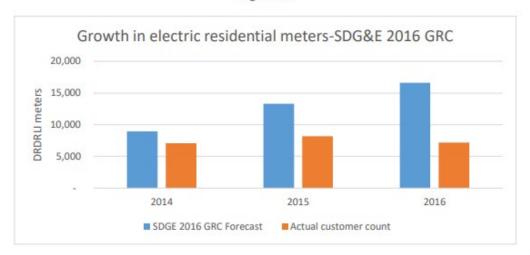
## APPENDIX B

Ex. TURN-14, Figure 10, p. 14: 1-2

Ex. TURN-14, Figure 11, p. 14: 7-8

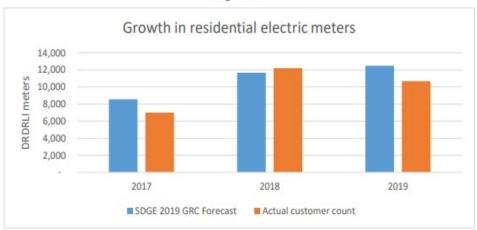
## Ex. TURN-14, Figure 10, p. 14: 1-2

Figure 10



## Ex. TURN-14, Figure 11, p. 14: 7-8

Figure 11



## APPENDIX C

## **Data Request Responses:**

Cal Advocates Data Request Response to SCG-SDGE-PAO-003, Question 3

## PUBLIC ADVOCATES OFFICE (Cal Advocates) DATA RESPONSE

## Southern California Gas Company and San Diego Gas & Electric Company Test Year 2024 General Rate Cases A.22-05-015 and A.22-05-016

**Date:** April 10, 2023

Origination Date: April 3, 2023

Response Due: April 10, 2023

Data Request No: SCG-SDGE-PAO-003

**To:** Jamie York, Sempra 2024 GRC Manager

JYork@semprautilities.com

Sempra Central Files

centralfiles@semprautilities.com

From: Stacey Hunter, Project Coordinator

Public Advocates Office

505 Van Ness Avenue, Room 4104

San Francisco, CA 94102 Stacey.Hunter@cpuc.ca.gov

#### **GENERAL OBJECTIONS**

Cal Advocates objects to each data request to the extent that it mischaracterizes Cal Advocates' opening testimony.

Cal Advocates objects to each data request to the extent that it is overly broad, unduly burdensome, or not reasonably calculated to lead to the discovery of admissible evidence.

Cal Advocates objects to each instruction and data request as overly broad and unduly burdensome to the extent that it seeks documents or information that Sempra already possesses upon receipt Cal Advocates' prepared testimony and workpapers.

Cal Advocates objects to each instruction and data request to the extent that it seeks information or documents protected from disclosure by the attorney-client privilege, attorney work product doctrine, or any other applicable privilege.

- c) Please provide a narrative explanation of Cal Advocates' justifications and/or basis for the proposed 50% reduction as of July 2023 for Cal Advocates' residential single-family and multifamily forecasts.
  - i. Provide workpapers that include all calculations showing how you derived the 50% reduction.
  - ii. What numbers did Cal Advocates use to calculate the 50% reduction?
  - iii. Did Cal Advocates account for the number of permits for new customer connections issued prior to 2023?

#### Cal Advocates' Response to Question 2:

- a) See workpapers submitted on April 5, 2023, regarding SDG&E Gas Customer Forecast.
- b) No. The most recent decade is more stable than 20-30 years ago. In addition, the relationship of customer connections and housing patterns is changing. A 10-year average captures the most recent changes in the economy.
- c) Please refer to response Question 1 b) above.
  - i. Please refer to response a)
  - ii. Please refer to response a)
  - iii. Yes.

#### **Sempra Question 3:**

Regarding SDG&E Electric Customer Forecast:

- a) Provide workpapers in excel for Cal Advocates proposed 10-year average forecast for residential electric customers for 2022, 2023 and 2024.
- b) Have Cal Advocates and/or Cal Advocates' witness on this matter previously sponsored a 10-year rolling average methodology for electric customer forecasts in any other proceeding? If yes, please provide the proceeding number(s).

#### Cal Advocates' Response to Question 3:

- a) See workpapers submitted on April 5, 2023, regarding SDG&E Electric Customer Forecast.
- b) No. The most recent decade is more stable than 20-30 years ago. In addition, the relationship of customer connections and housing patterns is changing. A 10-year average captures the most recent changes in the economy.

#### Sempra Question 4:

Provide all raw data for all variables in Microsoft Excel format including active cells, macros, source, and links for its proposed 10-year average forecast for the following:

- a) SoCalGas Gas Customer Forecast for 2022, 2023 and 2024
- b) SDG&E Gas Customer Forecast for 2022, 2023 and 2024
- c) SDG&E Electric Customer Forecast for 2022, 2023 and 2024

## Cal Advocates' Response to Question 4:

- a) Please refer to response Question 1 a).b) Please refer to response Question 2 a).c) Please refer to response Question 3 a).

Responses prepared by Maricela Sierra.

### **APPENDIX D**

Screenshots from Cal Advocates' workpapers for Ex. CA-18-E, titled: "A2205015 et al Public Advocates Office (Sierra) CA-18-WP Electric SDG&E," tab "3-ModelDataQ"

A	В	С	D	E	F	G	Н	1.1		J		К	L	М	N	0	Р
	015/016.	TURN	-SEU-040		Q1a-b SD						50/50 B	lended Q Basis	Cal				
YRQ# 2019Q2	YRMO 201906	Year 2019	Quarter 2	Month 6	NewDRDRLI-SI 1,933	1	0	0	Q4	2003Fire 0	Housing	CompletionsSD 2,292.6	Advocates 2,246.3				
2019Q3 2019Q4	201909	2019	3	9	4,011 2,615	0	1 0	0		0		1,870.4 1,992.6	2,218.6				
2020Q1	202003	2020	1	3	1,796	0	0	0		0		2,027.9	2,228.2				
2020Q2 2020Q3		2020	2	6	1,635 1,499	1 0	0	0		0		1,631.1 1,982.4	2,187.7 2,126.4				
2020Q4 2021Q1		2020	4	12	1,246 2,092	0	0	1 0		0		1,852.8 1,572.8	2,063.4				
2021Q2	202106	2021	2	6	3,170 3,886	1	0	0		0		1,636.0	1,933.3				
2021Q3 2021Q4	202109 202112	2021	3	12	2,347	0	1	0		0		1,909.1	1,809.0				
2022Q1 2022Q2		2022	2	6		1	0	0		0		1,778.4	1,780.8	E(K123:K132)		2,046.1 2,166.3	
2022Q3 2022Q4	202209	2022	3	9 12		0	1 0	0		0		1,742.8 1,761.4	1,752.3			2,323.5	
2023Q1 2023Q2	202303	2023 2023	1 2	3		0	0	0		0		1,717.2 1,683.3	1,738.8 1,721.9			2,631.4 2,715.2	
2023Q3 2023Q4	202309	2023	3	9		0	1	0		0		1,720.2	1,736.6			2,775.1	
2024Q1	202403	2023 2024	1	12		0	0	0		0		1,762.2 1,909.1	1,778.6			2,817.4 2,837.9	
2024Q2 2024Q3	202406 202409	2024 2024	2	6		0	0	0		0		2,566.0 2,648.1	2,566.0 2,648.1			2,856.6 2,866.5	
2024Q4		2024	4	12		0	0	1		0		2,716.8	2,716.8			2,853.8	
F				RegHistO	3-ModelDa	taQ	4-	ResF	Reg	5-ResFc	astQ 6	5-ResFcastM 7-N	NonResFca	stQ 8-Nor	nResFcast	:M 9-Tren	nd% 10
160	Accessibili	ty: Inve	stigate			_											
20190	21 2019	กรไว	019 1	1	3 1.39	11		0	0	0	0	2,474.8		2,183.8			
	22 2019			2	6 1,93			1	0	0	0	2,292.6		2.246.3			
	23 2019			3	9 4,01			0	1	0	0	1,870.4		2,218.6			
	24 2019			1	12 2,61			0	0	1	0	1,992.6		2,202.3			
	21 2020			1	3 1,79			0	0	0	0	2,027.9		2,228.2			
20200	22 2020	06 2	020 2	2	6 1,63	35		1	0	0	0	1,631.1		2,187.7			
	23 2020			3	9 1,49	9		0	1	0	0	1,982.4		2,126.4			
	2020				12 1,24			0	0	1	0	1,852.8		2,063.4			
	21 2021			1	3 2,09			0	0	0	0	1,572.8		2,001.2			
	22 2021			2	6 3,17			1	0	0	0	1,636.0		1,933.3			
	23 2021			3	9 3,88			0	1	1	0	1,615.3		1,847.4			
	Q4 2021 Q1 2022			1	12 2,34	1		0	0	0	0	1,909.1 1,802.2		1,809.0 1,802.2			2,046
	22 2022			2	6			1	0	0	0	1,778.4		=AVERAGE	F(K124+	K133V	2,166
	23 2022			3	9			0	1	0	0	1,742.8		1,752.3		1	2,323
	24 2022			1	12			0	0	1	0	1,761.4		1,765.3			2,490
20230	21 2023	03 2	023 1	1	3			0	0	0	0	1,717.2		1,738.8			2,631
	2023			2	6			1	0	0	0	1,683.3		1,721.9			2,715
	2023			3	9			0	1	0	0	1,720.2		1,736.6			2,775
	24 2023			1	12			0	0	1	0	1,762.2		1,749.2			2,817
	21 2024			1	3			0	0	0	0	1,909.1		1,778.6			2,837
	Q2 2024 Q3 2024			2	9			0	1	0	0	2,566.0		2,566.0 2,648.1			2,856 2,866
	24 2024			4	12			0	0	1	0	2,648.1 2,716.8		2,716.8			2,853
20240	27 2024	2	*					~	v	•	•	2,710.0		2,710.0			2,000
	21 2019			1	3 1,39	1		0	0	0	0	2,474.8		2,183.8			
	22 2019			2	6 1,93	3		1	0	0	0	2,292.6		2,246.3			
	23 2019				9 4,01			0	1	0	0	1,870.4		2,218.6			
	24 2019				12 2,61			0	0	1	0	1,992.6		2,202.3			
	21 2020				3 1,79			0	0	0	0	2,027.9		2,228.2			
	22 2020				6 1,63 9 1.49			1	0	0	0	1,631.1		2,187.7			
	23 2020 24 2020				- 1,11			0	0	1	0	1,982.4		2,126.4			
	21 2021				12 1,24 3 2,09			0	0	0	0	1,852.8 1,572.8		2,063.4 2,001.2			
	22 2021				6 3,17			1	0	0	0	1,636.0		1,933.3			
	23 2021	09 2	021 3		9 3,88			0	1	0	0	1,615.3		1,847.4			
20210	24 2021				12 2,34			0	0	1	0	1,909.1		1,809.0			
20210	21 2022	03 2	022 1		3			0	0	0	0	1,802.2		1,802.2			2,046
20210 20210 20220	22 2022	06 2	022 2		6			1	0	0	0	1,778.4		1,780.8			2,166
20210 20210 20220 20220		09 2	022 3		9			0	1	0	0	1,742.8		=AVERAGE	E(K125:I	K134)	2,323
20210 20210 20220 20220 20220	23 2022	12 2			12			0	0	1	0	1,761.4		1,765.3			2,490
20210 20210 20220 20220 20220 20220	24 2022		122 1	1	3			0	0	0	0	1,717.2		1,738.8			2,631
20210 20210 20220 20220 20220 20220 20230	24 2022 21 2023	03 2						1	0	0	0	1,683.3		1,721.9			2,715
20210 20210 20220 20220 20220 20220 20230 20230	24 2022 21 2023 22 2023	03 2	023 2		6												
20210 20220 20220 20220 20220 20230 20230 20230	04 2022 01 2023 02 2023 03 2023	03 20 06 20 09 20	023 2 023 3	3	9			0	1	0	0	1,720.2		1,736.6			
20210 20210 20220 20220 20220 20220 20230 20230 20230 20230	04 2022 01 2023 02 2023 03 2023 04 2023	03 20 06 20 09 20 12 20	023 2 023 3 023 4	1	9 12			0	0	1	0	1,762.2		1,749.2			2,775
20210 20210 20220 20220 20220 20220 20230 20230 20230 20230 20230 20240	04 2022 01 2023 02 2023 03 2023 04 2023 01 2024	03 20 06 20 09 20 12 20 03 20	023 2 023 3 023 4 024 1	1	9 12 3			0	0	1 0	0	1,762.2 1,909.1		1,749.2 1,778.6			2,817 2,837
20210 20210 20220 20220 20220 20230 20230 20230 20230 20230 20240 20240	04 2022 01 2023 02 2023 03 2023 04 2023	03 20 06 20 09 20 12 20 03 20 06 20	023 2 023 3 023 4 024 1	1 1 2	9 12			0	0	1	0	1,762.2		1,749.2			2,817

20 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8	2,183.8	
21 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2,292.6	2,246.3	
22 2019Q3 201909 2019	3	9	4,011	0	1	0	0	1,870.4	2,218.6	
23 2019Q4 201912 2019	4	12	2,615	0	0	1	0	1,992.6	2,202.3	
24 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9	2,228.2	
25 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1	2,187.7	
26 2020Q3 202009 2020	3	9	1,499	0	1	0	0 [	1,982.4	2,126.4	
27 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8	2,063.4	
28 2021Q1 202103 2021	1	3	2,092	0	0	0	0	1,572.8	2,001.2	
29 2021Q2 202106 2021	2	6	3,170	1	0	0	0	1,636.0	1,933.3	
30 2021Q3 202109 2021	3	9	3,885	0	1	0	0	1,615.3	1,847.4	
31 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1	1,809.0	
32 2022Q1 202203 2022	1	3		0	0	0	0	1,802.2	1,802.2	2,046.
33 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4	1,780.8 1,752.3	2,166
34 2022Q3 202209 2022 35 2022Q4 202212 2022	3	9		0	0	1	0	1,742.8	=AVERAGE(K126:K135)	2,323
36 2023Q1 202303 2023	1	3		0	0	0	0	1,761.4 1,717.2	1,738.8	2,490 2,631
37 2023Q2 202306 2023	2	6		1	0	0	0	1,683.3	1,721.9	2,715
38 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2	1,736.6	2,775
39 2023Q4 202312 2023	4	12		0	0	1	0	1,762.2	1,749.2	2,817
40 2024Q1 202403 2024	1	3		0	0	0	0	1,909.1	1,778.6	2,837
41 2024Q2 202406 2024	2	6		1	0	0	0	2,566.0	2,566.0	2,856
42 2024Q3 202409 2024	3	9		0	1	0	0	2,648.1	2,648.1	2,866
43 2024Q4 202412 2024	4	12		0	0	1	0	2,716.8	2,716.8	2,853
20 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8	2,183.8	
21 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2,292.6	2,246.3	
22 2019Q3 201909 2019	3	9	4,011	0	1	0	0	1,870.4	2,218.6	
23 2019Q4 201912 2019	4	12	2,615	0	0	1	0	1,992.6	2,202.3	
24 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9	2,228.2	
25 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1	2,187.7	
26 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4	2,126.4	
27 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8	2,063.4	
28 2021Q1 202103 2021 29 2021Q2 202106 2021	1	3	2,092	0	0	0	0	1,572.8	2,001.2	
30 2021Q2 202108 2021	3	9	3,170 3,885	0	1	0	0	1,636.0 1,615.3	1,933.3 1,847.4	
31 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1	1,809.0	
32 2022Q1 202203 2022	1	3	2,541	0	0	0	0	1,802.2	1,802.2	2,046
33 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4	1,780.8	2,166
34 2022Q3 202209 2022	3	9		0	1	0	0	1,742.8	1,752.3	2,323
35 2022Q4 202212 2022	4	12		0	0	1	0	1,761.4	1,765.3	2,490
36 2023Q1 202303 2023	1	3		0	0	0	0	1,717.2	=AVERAGE(K127:K136)	2,631
37 2023Q2 202306 2023	2	6		1	0	0	0	1,683.3	1,721.9	2,715
38 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2	1,736.6	2,775
39 2023Q4 202312 2023	4	12		0	0	1	0	1,762.2	1,749.2	2,817
40 2024Q1 202403 2024	1	3		0	0	0	0	1,909.1	1,778.6	2,837.
41 2024Q2 202406 2024	2	6		1	0	0	0	2,566.0	2,566.0	2,856
42 2024Q3 202409 2024	3	9		0	1	0	0	2,648.1	2,648.1	2,866
43 2024Q4 202412 2024	4	12		0	0	1	0	2,716.8	2,716.8	2,853
20 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8	2,183.8	
21 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2,292.6	2,246.3	
2 2019Q3 201909 2019	3	9	4,011	0	1	0	0	1,870.4	2.218.6	
23 2019Q4 201912 2019	4	12	2,615	0	0	1	0	1,992.6	2.202.3	
24 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9	2,228.2	
25 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1	2,187.7	
26 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4	2,126.4	
27 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8	2,063.4	
28 2021Q1 202103 2021	1	3	2,092	0	0	0	0	1,572.8	2,001.2	
9 2021Q2 202106 2021	2	6	3,170	1	0	0	0	1,636.0	1,933.3	
30 2021Q3 202109 2021	3	9	3,885	0	1	0	0	1,615.3	1,847.4	
31 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1	1,809.0	
2 2022Q1 202203 2022	1	3		0	0	0	0	1,802.2	1,802.2	2,04
33 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4	1,780.8	2,16
34 2022Q3 202209 2022	3	9		0	1	0	0	1,742.8	1,752.3	2,32
35 2022Q4 202212 2022	4	12		0	0	1	0	1,761.4	1,765.3	2,49
36 2023Q1 202303 2023	1	3		0	0	0	0	1,717.2	1,738.8	2,63
37 2023Q2 202306 2023	2	6		1	0	0	0	1,683.3	=AVERAGE(K128:K137)	2,71
38 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2	1,736.6	2,77
39 2023Q4 202312 2023	4	12		0	0	1	0	1,762.2	1,749.2	2,81
	1	3		0	0	0	0	1,909.1	1,778.6	2,83
40 2024Q1 202403 2024							0		* 0 FCC 0	
40 2024Q1 202403 2024 41 2024Q2 202406 2024	2	6		1	0	0		2,566.0	2,566.0	2,856
40 2024Q1 202403 2024		6 9 12		0 0	1	0	0	2,648.1 2,716.8	2,566.0 2,648.1 2,716.8	2,850 2,850 2,850

120 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8	2,183,8	
121 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2,292.6	2,246.3	
122 2019Q3 201909 2019	3	9	4.011	0	1	0	0	1.870.4	2,218.6	
123 2019Q4 201912 2019	4	12	2,615	0	0	1	0	1.992.6	2.202.3	
124 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9	2,228.2	
125 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1	2,187.7	
126 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4	2,126.4	
127 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8	2,063.4	
128 2021Q1 202103 2021	1	3	2.092	0	0	0	0	1,572.8	2.001.2	
129 2021Q2 202106 2021	2	6		1	0	0	0 1	1,636.0	1,933.3	
			3,170				-			
130 2021Q3 202109 2021	3	9	3,885	0	1	0	0	1,615.3	1,847.4	
131 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1	1,809.0	
132 2022Q1 202203 2022	1	3		0	0	0	0	1,802.2	1,802.2	2,046.1
133 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4	1,780.8	2,166.3
134 2022Q3 202209 2022	3	9		0	1	0	0	1,742.8	1,752.3	2,323.5
135 2022Q4 202212 2022	4	12		0	0	1	0	1,761.4	1,765.3	2,490.9
136 2023Q1 202303 2023	1	3		0	0	0	0	1,717.2	1,738.8	2,631.4
137 2023Q2 202306 2023	2	6		1	0	0	0	1,683.3	1,721.9	2,715.2
138 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2	=AVERAGE(K129:K138)	2,775.1
139 2023Q4 202312 2023	4	12		0	0	1	0	1.762.2	1,749.2	2.817.4
140 2024Q1 202403 2024	1	3		0	0	0	0	1,909.1	1,778.6	2,837.9
141 2024Q2 202406 2024	2	6		1	0	0	0	2,566.0	2,566.0	2,856.6
142 2024Q3 202409 2024	3	9		0	1	0	0	2,648.1	2,648.1	2,866.5
143 2024Q4 202412 2024	4	12		0	0	1	0	2,716.8	2,716.8	2,853.8
143 202404 202412 2024	4	12					U	2,710.0	2,710.0	2,033.0
120 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8	2,183.8	
121 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2,292.6	2,246.3	
122 2019Q3 201909 2019	3	9	4,011	0	1	0	0	1,870.4	2,246.5	
123 2019Q4 201912 2019	4	-		0			0			
		12	2,615		0	1	-	1,992.6	2,202.3	
124 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9	2,228.2	
125 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1	2,187.7	
126 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4	2,126.4	
127 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8	2,063.4	
128 2021Q1 202103 2021	1	3	2,092	0	0	0	0	1,572.8	2,001.2	
129 2021Q2 202106 2021	2	6	3,170	1	0	0	0	1,636.0	1,933.3	
130 2021Q3 202109 2021	3	9	3,885	0	1	0	0	1,615.3	1,847.4	
131 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1	1,809.0	
132 2022Q1 202203 2022	1	3	_,_,	0	0	0	0	1.802.2	1.802.2	2.046.1
133 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4	1.780.8	2,166.3
134 2022Q3 202209 2022	3	9		0	1	0	0	1,742.8	1,752.3	2,323.5
135 2022Q4 202212 2022	4	12		0	0	1	0	1,761.4	1,765.3	2,490.9
136 2023Q1 202303 2023	1					-	-			
137 2023Q2 202306 2023	•	3		0	0	0	0	1,717.2	1,738.8	2,631.4
	2	6		1	0	0	0	1,683.3	1,721.9	2,715.2
138 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2	1,736.6	2,775.1
139 2023Q4 202312 2023	4	12		0	0	1	0	1,762.2	=AVERAGE(K130:K139	
140 2024Q1 202403 2024	1	3		0	0	0	0	1,909.1	1,778.6	2,837.9
141 2024Q2 202406 2024	2	6		1	0	0	0	2,566.0	2,566.0	2,856.6
142 2024Q3 202409 2024	3	9		0	1	0	0	2,648.1	2,648.1	2,866.5
143 2024Q4 202412 2024	4	12		0	0	1	0	2,716.8	2,716.8	2,853.8
120 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8	2,183.8	
121 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2.292.6	2.246.3	
122 2019Q2 201909 2019	3	9	4,011	0	1	0	0	1,870.4	2,218.6	
123 2019Q4 201912 2019	4	_				1	0			
		12	2,615	0	0		-	1,992.6	2,202.3	
124 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9	2,228.2	
125 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1	2,187.7	
126 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4	2,126.4	
	4	12	1,246	0	0	1	0	1,852.8	2,063.4	
127 2020Q4 202012 2020		3	2,092	0	0	0	0	1,572.8	2,001.2	
127 2020Q4 202012 2020 128 2021Q1 202103 2021	1		3,170	1	0	0	0	1,636.0	1,933.3	
127 2020Q4 202012 2020 128 2021Q1 202103 2021	1	6					0	1,615.3	1,847.4	
127 2020Q4 202012 2020 128 2021Q1 202103 2021 129 2021Q2 202106 2021		6		0	1	0				
127 2020Q4 202012 2020 128 2021Q1 202103 2021 129 2021Q2 202106 2021 130 2021Q3 202109 2021	2	9	3,885	0	0					
127 2020Q4 202012 2020 128 2021Q1 202103 2021 129 2021Q2 202106 2021 130 2021Q3 202109 2021 131 2021Q4 202112 2021	2 3 4	9		0	0	1	0	1,909.1	1,809.0	2 046 1
127 2020Q4 202012 2020 128 2021Q1 202103 2021 129 2021Q2 202106 2021 130 2021Q3 202109 2021 131 2021Q4 202112 2021 132 2022Q1 202203 2022	2 3 4	9 12 3	3,885	0	0	0	0	1,909.1 1,802.2	1,809.0 1,802.2	2,046.1
127 2020Q4 202012 2020 128 2021Q1 202103 2021 129 2021Q2 202106 2021 130 2021Q3 202109 2021 131 2021Q4 202112 2021 132 2022Q1 202203 2022 133 2022Q2 202206 2022	2 3 4 1 2	9 12 3 6	3,885	0 0 1	0 0	1 0 0	0 0 0	1,909.1 1,802.2 1,778.4	1,809.0 1,802.2 1,780.8	2,166.3
127 2020Q4 202012 2020 128 2021Q1 202103 2021 129 2021Q2 202106 2021 130 2021Q3 202109 2021 131 2021Q4 202112 2021 132 2022Q1 202203 2022 133 2022Q2 2022Q6 2022 134 2022Q3 2022Q9 2022	2 3 4 1 2 3	9 12 3 6 9	3,885	0 0 1 0	0 0 0 1	1 0 0	0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8	1,809.0 1,802.2 1,780.8 1,752.3	2,166.3 2,323.5
127 20204 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 202109 2021 131 202104 202112 2021 132 202201 702203 2022 133 202202 202206 2022 134 202203 202209 2022 135 202204 202212 2022	2 3 4 1 2 3 4	9 12 3 6 9	3,885	0 0 1 0	0 0 0 1	1 0 0 0	0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3	2,166.3 2,323.5 2,490.9
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 202109 2021 131 202104 202112 2021 132 2022Q1 202203 2022 133 2022Q2 202209 2022 134 2022Q3 202209 2022 135 2022Q4 202212 2022 136 2023Q1 2023Q3 2023	2 3 4 1 2 3 4 1	9 12 3 6 9 12 3	3,885	0 0 1 0 0	0 0 1 0 0	1 0 0 0 1	0 0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3 1,738.8	2,166.3 2,323.5 2,490.9 2,631.4
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 202109 2021 131 202104 202112 2021 132 202201 202203 2022 133 202202 202209 2022 134 202203 202209 2022 135 202204 202212 2022 136 202301 202303 2023 137 202302 202306 2023	2 3 4 1 2 3 4	9 12 3 6 9 12 3 6	3,885	0 0 1 0 0 0	0 0 0 1	1 0 0 0	0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2 1,683.3	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3	2,166.3 2,323.5 2,490.9 2,631.4
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 202109 2021 131 202104 202112 2021 132 202201 202203 2022 133 202202 202209 2022 134 202203 202209 2022 135 202204 202212 2022 136 202301 202303 2023 137 202302 202306 2023	2 3 4 1 2 3 4 1	9 12 3 6 9 12 3	3,885	0 0 1 0 0	0 0 1 0 0	1 0 0 0 1	0 0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3 1,738.8	2,166.3 2,323.5
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 202109 2021 131 202104 202112 2021 132 2022Q1 202203 2022 133 202202 202209 2022 134 202203 202209 2022 135 2022Q4 202212 2022 136 2023Q1 202303 2023 137 2023Q2 2023Q3 2023 139 2023Q3 2023Q9 2023 139 2023Q3 2023Q9 2023 139 2023Q4 2023Q3 2023	2 3 4 1 2 3 4 1 2	9 12 3 6 9 12 3 6	3,885	0 0 1 0 0 0	0 0 0 1 0 0	1 0 0 0 1 0	0 0 0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2 1,683.3 1,720.2	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3 1,738.8 1,721.9	2,166.3 2,323.5 2,490.9 2,631.4 2,715.2 2,775.1
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 202109 2021 131 202104 202112 2021 132 2022Q1 202203 2022 133 202202 202209 2022 134 202203 202209 2022 135 2022Q4 202212 2022 136 2023Q1 202303 2023 137 2023Q2 2023Q3 2023 139 2023Q3 2023Q9 2023 139 2023Q3 2023Q9 2023 139 2023Q4 2023Q3 2023	2 3 4 1 2 3 4 1 2 3 4	9 12 3 6 9 12 3 6 9	3,885	0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0	1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2 1,683.3 1,720.2 1,762.2	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3 1,738.8 1,721.9 1,736.6 1,749.2	2,166.3 2,323.5 2,490.9 2,631.4 2,715.2 2,775.1 2,817.4
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202106 2021 130 202103 2021 131 202104 202110 2021 132 202201 202203 2022 133 202202 202206 2022 134 202203 202205 2022 135 2022Q4 202212 2022 136 202301 202303 2023 137 202302 202306 2023 138 202303 202309 2023 139 202304 202312 2023 130 202304 202312 2023 131 202304 202312 2023 132 202304 202312 2023	2 3 4 1 2 3 4 1 2 3 4 1	9 12 3 6 9 12 3 6 9 12 3	3,885	0 0 1 0 0 0 1 0 0	0 0 1 0 0 0 1 0 0	1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2 1,683.3 1,720.2 1,762.2 1,909.1	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3 1,765.3 1,738.8 1,721.9 1,736.6 1,749.2 =AVERAGE((K131)K140	2,166.3 2,323.5 2,490.9 2,631.4 2,715.2 2,775.1 2,817.4 2,837.9
127 2020Q4 202012 2020 128 202101 202103 2021 129 202102 202109 2021 130 202103 202109 2021 131 202104 202112 2021 132 202201 202200 2022 133 202202 202200 2022 134 202203 202209 2022 135 202204 202212 2022 136 202301 202308 2023 137 202302 202308 2023 138 202303 202309 2023 139 202304 202309 2023 139 202304 202312 2023	2 3 4 1 2 3 4 1 2 3 4	9 12 3 6 9 12 3 6 9	3,885	0 0 1 0 0 0 1 0	0 0 1 0 0 0 1 0	1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0	1,909.1 1,802.2 1,778.4 1,742.8 1,761.4 1,717.2 1,683.3 1,720.2 1,762.2	1,809.0 1,802.2 1,780.8 1,752.3 1,765.3 1,738.8 1,721.9 1,736.6 1,749.2	2,166.3 2,323.5 2,490.9 2,631.4 2,715.2 2,775.1 2,817.4

00 001001 001000 0010								0.171.0		0.400.0		
20 2019Q1 201903 2019	1	3	1,391	0	0	0	0	2,474.8		2,183.8		
21 2019Q2 201906 2019	2	6	1,933	1	0	0	0	2,292.6		2,246.3		
22 2019Q3 201909 2019	3	9	4,011	0	1	0	0	1,870.4		2,218.6		
23 2019Q4 201912 2019	4	12	2,615	0	0	1	0	1,992.6		2,202.3	_	
24 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9		2,228.2		
25 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1		2,187.7		
26 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4		2,126.4		
27 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8		2,063.4		
28 2021Q1 202103 2021	1	3	2,092	0	0	0	0	1,572.8		2,001.2		
29 2021Q2 202106 2021	2	6	3,170	1	0	0	0	1,636.0		1,933.3		
30 2021Q3 202109 2021	3	9	3,885	0	1	0	0	1,615.3	[_	1,847.4		
31 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1		1,809.0		
32 2022Q1 202203 2022	1	3		0	0	0	0	1,802.2		1,802.2		2,046.1
33 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4		1,780.8		2,166.3
34 2022Q3 202209 2022	3	9		0	1	0	0	1,742.8		1,752.3		2,323.5
35 2022Q4 202212 2022	4	12		0	0	1	0	1,761.4		1,765.3		2,490.9
36 2023Q1 202303 2023	1	3		0	0	0	0	1,717.2	_	1,738.8		2,631.4
37 2023Q2 202306 2023	2	6		1	0	0	0	1,683.3	_	1,721.9		2,715.2
38 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2		1,736.6		2,775.1
39 2023Q4 202312 2023	4	12		0	0	1	0	1,762.2		1,749.2		2,817.4
40 2024Q1 202403 2024	1	3		0	0	0	0	1,909.1	_	1,778.6		2,837.9
41 2024Q2 202406 2024	2	6		1	0	0	0	2,566.0	=/	AVERAGE(0132:	0141)	2,856.6
42 2024Q3 202409 2024	3	9		0	1	0	0	2,648.1	_	2,648.1	-	2,866.5
43 2024Q4 202412 2024	4	12		0	0	1	0	2,716.8	r	2,716.8		2,853.8
20 2019Q1 201903 2019		3	4 204	0	•	٥	0	2.474.0	,	0.402.0		
20 2019Q1 201903 2019 21 2019Q2 201906 2019	1	3	1,391	0	0	0	0	2,474.8		2,183.8 2.246.3		
21 2019Q2 201906 2019 22 2019Q3 201909 2019	3	9	1,933	0	1	0	0	2,292.6				
			4,011					1,870.4	-	2,218.6		
23 2019Q4 201912 2019	4	12	2,615	0	0	1	0	1,992.6		2,202.3		
24 2020Q1 202003 2020	1	3	1,796	0	0	0	0	2,027.9		2,228.2		
25 2020Q2 202006 2020	2	6	1,635	1	0	0	0	1,631.1		2,187.7		
26 2020Q3 202009 2020	3	9	1,499	0	1	0	0	1,982.4		2,126.4		
27 2020Q4 202012 2020	4	12	1,246	0	0	1	0	1,852.8	(_	2,063.4		
28 2021Q1 202103 2021	1	3	2,092	0	0	0	0	1,572.8	(_	2,001.2		
29 2021Q2 202106 2021	2	6	3,170	1	0	0	0	1,636.0	(_	1,933.3		
30 2021Q3 202109 2021	3	9	3,885	0	1	0	0	1,615.3	_[_	1,847.4		
31 2021Q4 202112 2021	4	12	2,347	0	0	1	0	1,909.1	_[	1,809.0		
32 2022Q1 202203 2022	1	3		0	0	0	0	1,802.2		1,802.2		2,046.1
33 2022Q2 202206 2022	2	6		1	0	0	0	1,778.4	_	1,780.8		2,166.3
34 2022Q3 202209 2022	3	9		0	1	0	0	1,742.8		1,752.3		2,323.5
35 2022Q4 202212 2022	4	12		0	0	1	0	1,761.4	_	1,765.3		2,490.9
36 2023Q1 202303 2023	1	3		0	0	0	0	1,717.2		1,738.8		2,631.4
37 2023Q2 202306 2023	2	6		1	0	0	0	1,683.3	_	1,721.9		2,715.2
38 2023Q3 202309 2023	3	9		0	1	0	0	1,720.2		1,736.6		2,775.1
39 2023Q4 202312 2023	4	12		0	0	1	0	1,762.2	r	1,749.2		2,817.4
40 2024Q1 202403 2024	1	3		0	0	0	0	1,909.1	r	1,778.6		2,837.9
41 2024Q2 202406 2024	2	6		1	0	0	0	2,566.0		2,566.0		2,856.6
	3	9										
				0		0	0		=/	AVERAGE(0133	01421	
42 2024Q3 202409 2024	4			0	1	0	0	2,648.1	=/	AVERAGE(0133:	O142)	2,866.5
42 2024Q3 202409 2024		12		0		0	0		=/	AVERAGE(0133: 2,716.8	0142)	2,866.5 2,853.8
2 2024Q3 202409 2024 3 2024Q4 202412 2024	4	12	1 204	0	0	1	0	2,648.1 2,716.8		2,716.8	0142)	2,866.5
12 2024Q3 2024Q9 2024 13 2024Q4 202412 2024 20 2019Q1 201903 2019	1	12	1,391	0	0	0	0	2,648.1 2,716.8 2,474.8		2,716.8	0142)	2,866.5
2 2024Q3 7202409 2024 3 2024Q4 7202412 2024 0 2019Q1 7201903 2019 1 2019Q2 7201906 2019	1 2	12 3 6	1,933	0 1	0 0	0 0	0 0	2,648.1 2,716.8 2,474.8 2,292.6		2,716.8 2,183.8 2,246.3	0142)	2,866.
2 2024Q3 2024Q9 2024 3 2024Q4 202412 2024 0 2019Q1 201903 2019 1 2019Q2 201906 2019 2 2019Q3 201909 2019	1 2 3	3 6 9	1,933 4,011	0 1 0	0 0 1	0 0 0	0 0 0 0	2,648.1 2,716.8 2,474.8 2,292.6 1,870.4		2,716.8 2,183.8 2,246.3 2,218.6	0142)	2,866.
2 2024Q3 2024Q9 2024 3 2024Q4 202412 2024 0 2019Q1 201903 2019 1 2019Q2 201903 2019 2 2019Q3 201909 2019 3 2019Q4 201912 2019	1 2 3 4	3 6 9	1,933 4,011 2,615	0 1 0 0	0 0 1 0	0 0 0 1	0 0 0 0	2,648.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6		2,183.8 2,246.3 2,218.6 2,202.3	0142)	2,866.
2024Q3 2024Q9 2024 3 2024Q4 202412 2024 0 2019Q1 2019Q3 2019 11 2019Q2 2019Q6 2019 2 2019Q3 2019Q6 2019 2 2019Q3 2019Q2 2019 3 2019Q4 201912 2019 4 2020Q1 2020Q3 2020	1 2 3 4	3 6 9 12 3	1,933 4,011 2,615 1,796	0 1 0 0	0 0 1 0 0	0 0 0 1	0 0 0 0	2,448.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9		2,716.8 2,183.8 2,246.3 2,218.6 2,202.3 2,228.2	0142)	2,866.
0 2019Q1 201903 2019 1 2019Q2 201903 2019 1 2019Q2 201903 2019 2 2019Q3 201909 2019 3 2019Q3 201909 2019 3 2019Q4 201912 2019 4 202QQ1 202003 2020 5 202QQ2 202006 2020	1 2 3 4 1 2	3 6 9 12 3 6	1,933 4,011 2,615 1,796 1,635	0 1 0 0 0	0 0 1 0 0	0 0 0 1 0	0 0 0 0 0	2,648.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9 1,631.1		2,716.8 2,183.8 2,246.3 2,218.6 2,202.3 2,228.2 2,187.7	0142)	2,866.
2 2024Q3 2024Q9 2024 3 2024Q4 202412 2024 0 2019Q1 201903 2019 1 2019Q2 201906 2019 2 2019Q3 201909 2019 3 2019Q4 201912 2019 3 2019Q4 201912 2019 4 2020Q1 202003 2020 5 2020Q2 202006 2020 6 2020Q3 202009 2020	1 2 3 4 1 2 3	3 6 9 12 3 6 9	1,933 4,011 2,615 1,796 1,635 1,499	0 1 0 0 0 1 0	0 0 1 0 0 0	0 0 0 1 0 0	0 0 0 0 0	2,448.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9 1,631.1 1,982.4		2,716.8 2,183.8 2,246.3 2,218.6 2,202.3 2,228.2 2,187.7 2,126.4	0142)	2,866.
2024Q3 2024Q9 2024 3 2024Q4 202412 2024 2019Q1 2019Q3 2019 2019Q2 2019Q6 2019 2019Q3 2019Q6 2019 2019Q3 2019Q6 2019 31 2019Q4 201912 2019 31 2019Q4 201912 2019 42 202QQ 2020Q6 2020 62 202QQ3 2020Q9 2020 67 202QQ9 2020Q9 2020 67 202QQ9 2020Q9 2020 67 202QQ4 202012 2020	1 2 3 4 1 2 3 4	3 6 9 12 3 6 9	1,933 4,011 2,615 1,796 1,635 1,499 1,246	0 1 0 0 0 1 1 0	0 0 1 0 0 1 0	0 0 0 1 0 0 0	0 0 0 0 0 0	2,448.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9 1,631.1 1,982.4 1,852.8		2,716.8 2,183.8 2,246.3 2,218.6 2,202.3 2,228.2 2,187.7 2,126.4 2,063.4	0142)	2,866.
22 2024Q3 2024Q9 2024 33 2024Q4 202412 2024 40 2019Q1 201903 2019 11 2019Q2 201906 2019 22 2019Q3 201909 2019 33 2019Q4 201912 2019 43 2020Q1 202003 2020 52 2020Q2 202006 2020 65 2020Q3 202006 2020 66 2020Q3 202009 2020 67 2020Q4 202012 2020 88 2021Q1 202013 2021	1 2 3 4 1 2 3 4	3 6 9 12 3 6 9 12 3	1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092	0 1 0 0 0 1 0 0	0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 0	0 0 0 0 0 0	2,648.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9 1,631.1 1,982.4 1,852.8 1,572.8		2,183 8 2,246 3 2,246 3 2,218 6 2,202 3 2,228 2 2,187 7 2,126 4 2,063 4 2,001,2	0142)	2,866.
2024Q3 2024Q9 2024 3 2024Q4 202412 2024 2019Q1 2019Q3 2019 10 2019Q1 2019Q3 2019 11 2019Q2 2019Q6 2019 22 2019Q3 2019Q9 2019 33 2019Q4 201912 2019 44 202QQ1 202QQ3 202Q 12 202QQ2 202QQ6 202Q 16 202QQ3 202QQ 202Q 17 202QQ4 202Q12 202Q 18 202QQ4 202Q12 202Q 18 202QQ4 202Q12 202Q 19 202QQ2 202QQ6 202Q1 202QQ4 202Q12 202Q 202QQ4 202Q12 202Q1 202QQ4 202Q12 202Q1 202QQ4 202Q12 202Q1 202QQ4 202Q12 202Q1 202QQ4 202Q12 202Q1 202QQ4 202Q12 202Q1	1 2 3 4 1 2 3 4	3 6 9 12 3 6 9	1,933 4,011 2,615 1,796 1,635 1,499 1,246	0 1 0 0 0 1 1 0	0 0 1 0 0 1 0	0 0 0 1 0 0 0	0 0 0 0 0 0	2,448.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9 1,631.1 1,982.4 1,852.8		2,716.8 2,183.8 2,246.3 2,218.6 2,202.3 2,228.2 2,187.7 2,126.4 2,063.4	0142	2,866.
02 2019Q1 2019Q2 2019 03 2019Q1 2019Q3 2019 10 2019Q1 2019Q6 2019 20 2019Q2 2019Q6 2019 20 2019Q3 2019Q9 2019 20 2019Q3 2019Q9 2019 20 2019Q3 2019Q9 2019 20 2019Q3 2020Q6 2020 20 2020Q3 2020Q6 2020 20 2020Q6 2020 20 2020Q6 2020Q6 2020 20 20 2020 20 20 2020 20 20 2020 20 20 2020 20 20 2020 20 20 2020 20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 2 3 4 1 2 3 4	3 6 9 12 3 6 9	1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092	0 1 0 0 0 1 0 0	0 0 0 1 0 0 0 1 0	0 0 0 1 0 0 0 1 0	0 0 0 0 0 0	2,648.1 2,716.8 2,474.8 2,292.6 1,870.4 1,992.6 2,027.9 1,631.1 1,982.4 1,852.8 1,572.8		2,183 8 2,246 3 2,246 3 2,218 6 2,202 3 2,228 2 2,187 7 2,126 4 2,063 4 2,001,2	0142)	2,866.
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## APPENDIX E

## **Data Request Response:**

SCG-SDGE-TURN-010

## DATA REQUEST SCG-SDGE-TURN-010 SoCalGas and SDG&E's 2024 GENERAL RATE CASE A.22-05-015 and A.22-05-016

DATE SENT: April 14, 2023

**Testimony: TURN-14, Intervenor Testimony of Jaime McGovern** 

Response Date: 4/26/23

**Subject: Gas Customer Forecast; Electric Customer Forecast** 

### **REQUEST:**

Please provide the following:

1. Please refer to TURN's response to data request SCG-SDGE-TURN-002, attachment titled: "SCG-SDGE-TURN-002 attch3.xlsx" regarding SDG&E's electric customer forecast.

- a. For each value in column K, rows 130 through 141, on tab "5-ResFcstQ", please provide a detailed explanation of how TURN calculated the values.
- b. Please provide a detailed explanation of how TURN developed the value 0.07618849907% used in the formulas on tab "5-ResFcstQ" in cells K130, K131, K132 and K133.
- c. Please provide all documentation supporting your responses to subparts a. and b. above, including workpapers in Microsoft Excel format that include all formulas and calculations.

#### **QUESTION 1a RESPONSE**

TURN appreciates the data request which has highlighted cell calculation error.

TURN will be submitting revised testimony next week, which will include the revisions described here. TURN submits the corrected workpapers as an attachment to this data response (SCG-SDGE-TURN-002 attch3\_erratum). For K130-133, in the corrected workpapers, as described in TURN's testimony, for 2022, TURN reduced housing completions by 7.6 percent from the previous year (2021) to reflect the decrease in western housing construction (see 1b below).

In preparing workpapers for testimony, when calculating the forecasted housing completions for 2023 and 2024 as the average of the prior 10 years, TURN inadvertently selected the previous 10 quarters of housing data (column K) instead of the prior 10 years of corresponding quarters. TURN has now corrected the cell selection to correctly calculate each quarter of 2023 and 2024 forecast as the average of the prior ten corresponding quarters.

#### **QUESTION 1b RESPONSE**

TURN utilized the US western housing starts referenced on page 31 of A.22-05-15 TURN-14-Atch1, and the 0.07618849907 (corrected from 0.07618849907%) is equal to the difference between 2021 and 2022 western housing starts in that that table.

## **QUESTION 1c RESPONSE**

 $Please\ see\ attachment\ SCG\text{-}SDGE\text{-}TURN\text{-}002\ attch3\_erratum.}$ 

KES-E-3 2

### APPENDIX F

## SCREENSHOTS FROM TURN'S REVISED WORKPAPERS FOR EX. TURN-14, SCG-SDGE-TURN-002 ATTCH3\_ERRATUM, TAB "5-RESFCASTQ"

UM *	: × •	f <sub>x</sub>	=K126*(1-0.	7618849907	7)												
	В	С	D	Е	J	K	1 1	М	N	0	Р	Q	R	S	Т	U	١
<b>▲</b> A	В	C	U		J	N.		Model	NewDF		Model	NewDR	П	Model	NewDR	U	
YRQ#	YRMO	Year	Quarter	Month	Q4 2003Fire	HousingCompletionsSD	Forecast?	DRDRLI (SD)	DRLI-	_	DRDRLI (OC)	DRLI- OC	% Q Ch.	DRDRLI (SDGE)	DRLI- SDGE	% Q Ch.	
5 2020Q4			4	12	0	1.853	101000011	1,195,636		<u> </u>	117.235		<u> </u>	1,312,871	2202	<u> </u>	
26 2021Q1		_	1	3	0	1,573	Ī	1,197,728			117,267			1,314,995			
7 2021Q2			2	6	0	1,636	-	1,200,898			117,366			1,318,264			
8 2021Q3			3	9	0	1.615		1,204,783			117,369			1,322,152			
9 2021Q4	202112	2021	4	12	0	.,		1,207,130			117,430			1,324,560			
0 2022Q1			1	3	0	=K126*(1-0.07618849907)	Forecast	1,208,750	1,620	0.13%	117,588	158	0.13%	1,326,338	1,778	0.13%	
31 2022Q2	202206	2022	2	6	0	1,511	Forecast	1,210,493	1,743	0.14%	117,757	170	0.14%	1,328,250	1,913	0.14%	
2 2022Q3	202209	2022	3	9	0	1,492	Forecast	1,212,746	2,253	0.19%	117,976	219	0.19%	1,330,722	2,472	0.19%	
33 2022Q4	202212	2022	4	12	0	1,764	Forecast	1,214,991	2,245	0.19%	118,195	218	0.19%	1,333,186	2,464	0.19%	
34 2023Q1	202303	2023	1	3	0	1,900	Forecast	1,217,013	2,022	0.17%	118,391	197	0.17%	1,335,404	2,218	0.17%	
5 2023Q2	202306	2023	2	6	0	1,766	Forecast	1,218,984	1,971	0.16%	118,583	192	0.16%	1,337,567	2,163	0.16%	
36 2023Q3	202309	2023	3	9	0	1,720	Forecast	1,221,442	2,457	0.20%	118,822	239	0.20%	1,340,264	2,696	0.20%	
37 2023Q4	202312	2023	4	12	0	1,878	Forecast	1,223,789	2,348	0.19%	119,051	228	0.19%	1,342,840	2,576	0.19%	
38 2024Q1	202403	2024	1	3	0	1,933	Forecast	1,225,841	2,051	0.17%	119,250	200	0.17%	1,345,091	2,251	0.17%	
39 2024Q2			2	6	0	1,826	Forecast	1,227,867	2,026	0.17%	119,447	197	0.17%	1,347,314	2,223	0.17%	
10 2024Q3	202409	2024	3	9	0	1,780	Forecast	1,230,377	2,511	0.20%	119,691	244	0.20%	1,350,069	2,755	0.20%	
11 2024Q4	202412	2024	4	12	0	1,944	Forecast	1,232,784	2,407	0.20%	119,926	234	0.20%	1,352,710	2,641	0.20%	
12																	
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o	3-ModelData0	2 4-Re	sReg 5-Re	FcastQ	6-ResFcastM 7-No	nResFcastQ 8-NonResFcastM 9-Tri	end% 10-AllFcas	tM 11-GrcSur	mmary	(+)							4
124 2	02003 20	2000	***	2	0 440	0 0 1 0 0		4.000			#######						
The same of the same of	020Q3 20				9 1,49 12 1,24			1,982 1,853			*******						
	021Q1 2				3 2,09			1,573			#######						
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	02103 2				9 3,88		-	1,615			#######						
	021Q4 2				12 2.34			1,909			#######						
	022Q1 2				3 1,62				1	Forecast		1,620					
131 2	02202 20	2206	###	2	6 1,74		=K127*(	1-0.0761884		Forecast		1,743					
132 2	02203 20	2209	###	3	9 2.25	3 0 1 0 0		1.492		Forecast	******	2.253					

24 2020Q3 202009 ###	3	9	1,499	0	1	0	0	1.982		#######	
25 2020Q4 202012 ###	4	12	1,246	0	0	1	0	1,853		******	
26 2021Q1 202103 ###	1	3	2,092	0	0	0	0	1,573	-	#######	
27 2021Q2 202106 ###	2	6	3,170	1	0	0	0	1,636		******	
28 2021Q3 202109 ###	3	9	3.885	0	1	0	0	1,615		#######	
29 2021Q4 202112 ###	4	12	2.347	0	0	1	0	1,909		******	
30 2022Q1 202203 ###	1	3	1,620	0	0	0	0	1,000	Forecast		1,620
31 2022Q2 202206 ###	2	6	1,743	1	0	0	0	=K127*(1-0.0761884990			1.743
32 2022Q3 202209 ###	3	9	2,253	0	1	0	0	1,492	Forecast		2,253
33 2022Q4 202212 ###	4	12	2,245	0	0	1	0	1,764	Forecast		2.245
34 2023Q1 202303 ###	1	3	2,022	0	0	0	0	1,900	Forecast		2,022
35 2023Q2 202306 ###	2	6	1,971	1	0	0	0	1,766	Forecast		1.971
36 2023Q3 202309 ###	3	9	2,457	0	1	0	0	1,720	Forecast		2.457
37 2023Q4 202312 ###	4	12	2,348	0	0	1	0	1,878	Forecast		2,348
38 2024Q1 202403 ###	1	3	2,051	0	0	0	0	1,933	Forecast		2,051
39 2024Q2 202406 ###	2	6	2,026	1	0	0	0	1,826	Forecast		2.026
40 2024Q3 202409 ###	3	9	2,511	Ó	1	0	0	1,780	Forecast		2,511
41 2024Q4 202412 ###	4	12	2,407	0	0	1	0	1,944	Forecast		2,407
41 202404 202412 ###	*	12	2,407	U	U		U	1,344	rorecast	**************************************	2,407
24 2020Q3 202009 ###	3	9	1,499	0	1	0	0	1,982		******	
25 2020Q4 202012 ###	4	12	1,246	0	0	1	0	1,853		******	
26 2021Q1 202103 ###	1	3	2.092	0	0	0	0	1,573		******	
27 2021Q2 202106 ###	2	6	3,170	1	0	0	0	1,636		*******	
28 2021Q3 202109 ###	3	9	3.885	0	1	0	0	1,615	-	#######	
29 2021Q4 202112 ###	4	12	2.347	0	0	1	0	1,909		******	
30 2022Q1 202203 ###	1	3	1,620	0	0	0	0	1,453	Forecast		1,620
31 2022Q2 202206 ###	2	6	1,743	1	0	0	0	1,100	Forecast		1.743
32 2022Q3 202209 ###	3	9	2,253	o	1	0	0	=K128*(1-0.0761884990			2,253
33 2022Q4 202212 ###	4	12	2,245	0	0	1	ő	1,764	Forecast		2.245
34 2023Q1 202303 ###	1	3	2,022	0	0	0	0	1,900	Forecast		2.022
35 2023Q2 202306 ###	2	6	1,971	1	0	0	o	1,766	Forecast		1,971
36 2023Q3 202309 ###	3	9	2,457	o	1	0	o	1,720	Forecast		2.457
37 2023Q4 202312 ###	4	12	2,348	0	ò	1	0	1,878	Forecast		2.348
38 2024Q1 202403 ###	1	3	2,051	0	0	0	0	1,933	Forecast		2.051
39 2024Q1 202405 ###	2	6	2,026	1	0	0	0	1,826	Forecast		2.026
40 2024Q2 202400 ###	3	9	2,511	0	1	0	0	1,780	Forecast		2,511
41 2024Q4 202412 ###	4	12	2,407	0	0	1	0	1,944	Forecast		2,407
41 202404 202412 ###	*	12	2,407	U	U		U	1,544	rorecasi	********	2,401
26 2021Q1 202103 ###	1	3	2,092	0	0	0	0	1,573		#######	
27 2021Q2 202106 ###	2	6	3,170	1	0	0	0	1,636		#######	
28 2021Q3 202109 ###	3	9	3.885	0	1	0	0	1,615		#######	
29 2021Q4 202112 ###	4	12	2,347	0	0	1	0	1,909		#######	
30 2022Q1 202203 ###	1	3	1,620	0	0	0	0	1,453	Forecast	######	1,620
31 2022Q2 202206 ###	2	6	1,743	1	0	0	0	1,511		#######	1.743
32 2022Q3 202209 ###	3	9	2,253	0	1	0	0	.,		#######	2.253
33 2022Q4 202212 ###	4	12	2,245	0	0	1	0	=K129*(1-0.076188499)			2.245
34 2023Q1 202303 ###	1	3	2,022	0	0	o	0	1,900		#######	2.022
35 2023Q2 202306 ###	2	6	1,971	1	0	0	0	1,766		#######	1,97
36 2023Q2 202300 ### 36 2023Q3 202309 ###	3	9	2,457	0	1	0	0	1,720		#######	2.457
37 2023Q4 202312 ###	4	12	2,348	0	0	1	0	1,878		#######	2,43
	1	3	2,051	0	0	0	0	1,933		#######	2,05
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39 2024Q1 202403 ### 40 2024Q3 202409 ###	2	6	2,026 2,511	1 0	0	0	0	1,826 1,780		####### #######	2,026

4 2013Q1 201303 #	##	1	3	1,705	0	0	0	0	1,570		#######	
5 2013Q2 201306 #		2	6	1,631	1	0	0	0	1,157	-	******	
6 2013Q3 201309 #	##	3	9	1,445	0	1	0	0	1,128		#######	
7 2013Q4 201312 #	##	4	12	1,607	0	0	1	0	1,221		#######	
3 2014Q1 201403 #	##	1	3	1,697	0	0	0	0	1,518	Ī	#######	
2014Q2 201406 #	##	2	6	1,908	1	0	0	0	1,454		#######	
	##	3	9	2,158	0	1	0	0	1,473		#######	
	##	4	12	1,275	0	0	1	0	2,038	_=	#######	
The second secon	##	1	3	2,176	0	0	0	0	1,696		#######	
	##	2	6	1,601	1	0	0	0	1,669		#######	
4 2015Q3 201509 #		3	9	2,421	0	1	0	0	1,817		#######	
5 2015Q4 201512 #	##	4	12	1,910	0	0	1	0	1,983		#######	
	##	2	6	986 1,180	0	0	0	0	1,948		#######	
8 2016Q3 201609 #		3	9	2.182	0	1	0	0	1,862		******	
	##	4	12	1,787	0	0	1	0	1,668		#######	
	##	1	3	1,692	0	0	0	0	2,147	-	#######	
1 2017Q2 201706 #		2	6	1,183	1	0	0	0	2,155	-	******	
2 2017Q3 201709 #		3	9	1,820	0	1	0	0	1,769		******	
	##	4	12	3,443	0	0	1	0	2,036		#######	
	##	1	3	2,952	0	0	0	0	2,595	ī	#######	
5 2018Q2 201806 #	##	2	6	3,457	1	0	0	0	2,483	_	#######	
6 2018Q3 201809 ##	##	3	9	3,086	0	1	0	0	2,195		#######	
7 2018Q4 201812 #	##	4	12	2,798	0	0	1	0	2,315		#######	
8 2019Q1 201903 #	##	1	3	1,391	0	0	0	0	2,475	I	#######	
	##	2	6	1,933	1	0	0	0	2,293		#######	
	##	3	9	4,011	0	1	0	0	1,870		#######	
	##	4	12	2,615	0	0	1	0	1,993		#######	
	##	1	3	1,796	0	0	0	0	2,028	- I	#######	
3 2020Q2 202006 #		2	6	1,635	1	0	0	0	1,631		#######	
	##	3	9	1,499	0	1	0	0	1,982		#######	
	##	4	12	1,246	0	0	1	0	1,853	_	#######	
CONTRACTOR OF THE PARTY OF THE	##	1	3	2,092	0	0	0	0	1,573	_	#######	
7 2021Q2 202106 #		2	6	3,170	1	0	0	0	1,636		#######	
8 2021Q3 202109 #		3	9	3,885	0	1	0	0	1,615	-	#######	
	##	4	12	2,347	0	0	1	0	1,909	Farment	#######	4.00
	## ##	1	6	1,620	0	0	0	0	1,453	Forecast		1,62
2 2022Q3 202209 #		3	9	1,743 2,253	0	1	0	0	1,492	Forecast Forecast		2,25
3 2022Q4 202212 #		4				- 1	U	U	1,452	rorecast	********	2,24
202244 202212 #												
	##	1 2	12 3 6	2,245 2,022 1,971	0 0 1	=A'	VERA 0	GE(K130,I	K1 <mark>26,K122,K118,K114,K11</mark> 1,766	0,K106,K102,F Forecast		2,02
5 2023Q2 202306 #	## ##	1	3	2,022 1,971	0				1,766			2,02
5 2023Q2 202306 ## 5 2013Q2 201306 ##	## ##	1 2	3 6	2,022 1,971	0 1	0	0	0			*******	2,02
5 2023Q2 202306 # 2013Q2 201306 # 2013Q3 201309 #	## ##  ## ##	1 2 .	3 6	2,022 1,971	0 1	0	0	0	1,766		*******	2,02
2023Q2 2023Q6 ## 2013Q2 2013Q6 ## 2013Q3 2013Q9 ## 2013Q4 201312 ##	## ## ## ## ##	1 2	3 6 9	2,022 1,971 1,631 1,445	1 0	0 0 1	0 0 0	0 0 0	1,766 1,157 1,128		**************************************	2,02
5 2023Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q3 201312 # 2014Q4 201403 # 2014Q2 201406 #	## ## ## ## ##	1 2 2 3 4 1	3 6 9 12 3 6	2,022 1,971 1,631 1,445 1,607 1,697 1,908	0 1 0 0 0	0 0 1 0 0	0 0 0 1 0 0 0	0 0 0 0 0 0	1,766  1 1,157  1,128  1,221  1,518  1,454		******** ******* ******* *******	2,02
2013Q2 2023Q6 # 2013Q2 2013Q6 # 2013Q3 2013Q9 # 2013Q4 201312 # 2014Q1 2014Q3 # 2014Q2 2014Q6 # 0 2014Q3 2014Q9 #	## ## ## ## ## ##	1 2 2 3 4 1 2 3	3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158	0 1 0 0 0 1	0 1 0 0 0	0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	1,766  1 1,157 1,128 1,221 1,518 1,454 1,473		******** ******* ******* ******* ******	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q1 201403 # 2014Q2 201409 # 0 2014Q3 201409 # 1 2014Q4 201412 #	## ## ## ## ## ##	1 2 2 3 4 1 2 3 4	3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,998 2,158 1,275	0 1 1 0 0 0 1 0 0	0 0 1 0 0 0	0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q1 201403 # 2014Q2 201406 # 1 2014Q4 201412 # 2014Q4 201412 # 2015Q1 2015Q3 #	## ## ## ## ## ##	1 2 2 3 4 1 2 3 4	3 6 9 12 3 6 9 12 3	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176	0 1 0 0 0 1 0 0	0 1 0 0 0 1 0	0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128  1,221  1,518  1,454  1,473  2,038  1,696		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q3 201309 # 2014Q1 201403 # 2014Q2 201406 # 2014Q2 201406 # 2014Q2 201406 # 2014Q3 201402 # 2015Q1 201503 # 3 2015Q2 201506 #	## ## ## ## ## ## ##	1 2 3 4 1 2 3 4 1 2	3 6 9 12 3 6 9 12 3 6	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601	0 1 0 0 0 1 0 0 0	0 0 1 0 0 0 0 1 0	0 0 0 1 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q1 201406 # 0 2014Q3 201406 # 0 2014Q4 201412 # 2014Q4 201412 # 2015Q3 201506 # 4 2015Q3 201506 #	## ## ## ## ## ## ##	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3	3 6 9 12 3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421	0 1 0 0 0 1 0 0 0	0 0 1 0 0 0 1 0 0	0 0 0 1 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q1 201403 # 0 2014Q3 201409 # 1 2014Q4 201412 # 2 2015Q1 201503 # 4 2015Q3 201509 # 4 2015Q3 201509 # 5 2015Q4 201512 #	## ## ## ## ## ## ## ##	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4	3 6 9 12 3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910	0 1 0 0 0 1 0 0 0 1 0 0	0 0 1 0 0 0 0 1 0 0 0	0 0 0 1 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q1 201406 # 2014Q2 201406 # 2014Q2 201406 # 2014Q2 201409 # 2015Q1 201503 # 2015Q1 201503 # 2015Q2 201506 # 2015Q1 201503 201509 # 2015Q1 201503 201509 # 2015Q1 201503 201509 #	## ## ## ## ## ## ## ## ## ##	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1	3 6 9 12 3 6 9 12 3 6 9 12 3 6	2,022 1,971 1,631 1,445 1,607 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986	0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 1 0 0	0 0 0 1 0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q1 201406 # 2014Q2 201406 # 2014Q2 201406 # 2014Q2 201406 # 2015Q1 201503 # 3 2015Q2 201506 # 4 2015Q3 201509 # 5 2015Q4 201512 6 2 2015Q1 201606 # 7 2016Q2 201606 #	## ## ## ## ## ## ## ## ## ## ## ##	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 2	3 6 9 12 3 6 9 12 3 6 9 12 3 6	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180	0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0	0 0 1 0 0 0 1 0 0 0 1 0 0 0	0 0 0 1 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667		**************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q2 201306 # 2013Q3 201309 # 2014Q1 201403 # 2014Q2 201406 # 2014Q3 201409 # 2014Q4 201412 # 2015Q1 201503 # 2015Q2 201506 # 2015Q3 201509 # 2015Q3 201606 # 2016Q3 201606 # 2016Q3 201609 #	## ## ## ## ## ## ## ## ##	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 3	3 6 9 12 3 6 9 12 3 6 9 12 3 6	2,022 1,971 1,631 1,445 1,607 1,997 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0	0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667			2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q2 201406 # 2014Q2 201406 # 2014Q2 201406 # 2014Q2 201409 # 2015Q1 201506 # 2015Q2 201506 # 2015Q2 201506 # 2015Q4 201512 # 2016Q2 201606 # 2016Q2 201606 # 2016Q2 201606 # 2016Q2 201606 # 2016Q2 201609 # 2016Q2 201609 #	***	1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 2 3 4 4 4 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 6 9 12 3 6 9 12 3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787	0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 0	0 0 1 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0	0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667		***************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q3 201309 # 2014Q1 201406 # 2014Q1 201406 # 2014Q2 201406 # 2014Q2 201406 # 2015Q1 201503 # 3 2015Q2 201506 # 4 2015Q3 201509 # 2016Q4 201512 # 3 2016Q1 201606 # 3 2016Q3 201609 # 2 2016Q4 201512 # 3 2016Q4 201512 #		1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 3	3 6 9 12 3 6 9 12 3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0	0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,984 1,667 1,862 1,668 2,147			2,02
2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q1 201403 #  2014Q2 201406 #  2014Q3 201409 #  2014Q2 201406 #  2015Q3 201509 #  2015Q1 201500 #  2015Q1 201500 #  2015Q2 201506 #  2016Q2 201606 #  2016Q4 201612 #  2016Q4 201612 #  2016Q4 201606 #  2016Q4 201606 #  2016Q4 20160 #  2016Q4 20160 #  2016Q4 20160 #  2016Q4 20160 #		1 2 2 3 4 1 1 2 2 3 3 4 4 1 1 2 2 3 4 4 1 1	3 6 9 12 3 6 9 12 3 6 9 12 3 6 9	2,022 1,971 1,631 1,445 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,869 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155		***************************************	2,02
2013Q2 202306 # 2013Q2 201306 # 2013Q3 201309 # 2013Q4 201312 # 2014Q2 201403 # 2014Q2 201406 # 2014Q2 201409 # 2015Q2 201506 # 2015Q2 201506 # 2015Q2 201506 # 2016Q2 201606 # 2016Q2 201606 # 2016Q2 201606 # 2016Q2 201606 # 2016Q2 201609 # 2016Q3 201509 # 2016Q3 201509 # 2016Q3 201509 # 2016Q3 201509 # 2016Q3 201509 # 2016Q3 201609 # 2016Q3 201609 # 2016Q3 201609 #		1 2 3 3 4 4 1 2 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 2 2 3 3 3 4 4 1 1 2 2 3 3	3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692	0 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,984 1,667 1,862 1,668 2,147		***************************************	2,02
2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q2 201406 #  2014Q2 201406 #  2014Q2 201406 #  2015Q1 201503 #  2015Q2 201506 #  2015Q2 201506 #  2015Q2 201506 #  2015Q2 201506 #  2016Q2 201606 #  2016Q4 201612 #  2016Q4 201612 #  2016Q4 201612 #  2016Q4 201612 #  2017Q2 201706 #  2017Q2 201706 #  2017Q2 201709 #  2017Q4 201712 #		1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1	3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 12 12 12 12 12 12 12 12 12 12 12	2,022 1,971 1,631 1,445 1,607 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820	0 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,668 2,147 2,155 1,769		********	2,02
201302 202306 #  201302 201306 #  201302 201306 #  201303 201309 #  201304 201312 #  201402 201406 #  201402 201406 #  201402 201406 #  201502 201506 #  3 201502 201506 #  201504 201512 #  201504 201603 #  201604 201603 #  201604 201603 #  201604 201603 #  201604 201606 #  201604 201606 #  201604 201608 #  201704 201706 #  201704 201708 #  201704 201708 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 4 1 1 2 2 3 3 4 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12	2,022 1,971 1,631 1,445 1,607 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443	0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036		***************************************	2,02
2013Q2 202306 #  2013Q2 201306 #  2014Q1 201403 #  2014Q2 201406 #  2014Q3 201406 #  2014Q3 201406 #  3 2015Q2 201506 #  4 2015Q3 201509 #  5 2015Q4 201512 #  7 2016Q2 201606 #  8 2016Q3 201609 #  9 2016Q4 201612 #  7 2016Q2 201606 #  2 2017Q3 201708 #  2 2017Q4 201712 #  2 2018Q1 201808 #  5 2018Q2 201806 #  5 2018Q2 201806 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 3 4 4 1 1 1 2 2 3 3 3 4 4 1 1 1 2 2 3 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 9 12 3 6 9 9 9 12 3 6 9 9 9 12 3 6 9 9 9 9 12 3 6 9 9 9 9 12 3 6 9 9 9 9 12 3 6 9 9 9 9 12 3 6 9 9 9 9 9 12 3 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952	0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,6667 1,862 1,647 2,155 1,769 2,036 2,595		***************************************	2,02
2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q1 201403 #  2014Q2 201406 #  2014Q2 201406 #  2015Q1 201503 #  2015Q2 201506 #  2015Q1 201503 #  2016Q1 201603 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201607 #  2016Q2 201607 #  2016Q2 201608 #  2016Q3 201609 #  2016Q4 201612 #  2017Q3 2017Q9 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3	3 6 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 6 9 9 12 3 6 6 9 9 12 3 6 6 9 12 13 3 6 6 9 12 13 3 6 6 9 12 13 3 6 6 9 12 13 3 6 6 9 12 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	2,022 1,971 1,631 1,445 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,892 1,183 1,820 3,443 2,952 3,457	0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483		********	2,02
2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q2 201406 #  2014Q2 201406 #  2014Q2 201406 #  2014Q2 201406 #  2015Q3 201509 #  3 2015Q2 201506 #  4 2015Q3 201509 #  2016Q4 201512 #  2016Q1 201603 #  2016Q2 201606 #  2016Q4 201612 #  2017Q1 201703 #  2017Q2 201706 #  2017Q3 201709 #  2017Q3 201709 #  2017Q3 201709 #  2017Q3 201809 #  2018Q4 201806 #  2018Q2 201806 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6 9 12 3 6 6 9 9 12 3 6 6 9 9 12 3 6 6 9 9 12 3 6 6 6 9 9 12 3 7 12 7 12 7 12 7 12 7 12 7 12 7 12	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,457 3,086	0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128  1,221  1,518  1,454  1,473  2,038  1,696  1,669  1,817  1,983  1,948  1,667  1,862  1,668  2,147  2,155  1,769  2,036  2,595  2,483  2,195		********	2,02
2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q1 201403 #  2014Q2 201406 #  2014Q2 201406 #  2015Q1 201506 #  2015Q2 201506 #  2015Q1 201503 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201607 #  2016Q2 201608 #  2016Q3 201609 #  2016Q3 201609 #  2016Q3 201609 #  2016Q3 201609 #  2016Q3 2017Q3 201709 #		1 2 2 3 4 4 1 1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 4 1 1 1 1 2 2 3 3 4 4 4 1 1 1 1 2 2 3 3 4 4 4 1 1 1 1 2 2 3 3 4 4 4 1 1 1 1 2 2 3 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6 6 9 9 12 3 6 6 9 9 12 3 6 6 9 9 12 3 6 6 6 9 10 6	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,086 2,798	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128 1,221 1,518 1,454 1,473 2,038 1,689 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,2483 2,195 2,315 2,475 2,293			2,02
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2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q1 201403 #  2014Q2 201406 #  2014Q2 201406 #  2015Q1 201503 #  2015Q2 201506 #  2015Q2 201507 #  2016Q2 201606 #  2017Q2 201709 #  2018Q2 201802 201802 #  2018Q2 201802 201806 #  2019Q2 201906 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1	3 6 9 12 3 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 9 12 3 6 6 6 6 9 12 3 6 6 6 6 9 12 3 6 6 6 6 9 12 3 6 6 6 6 9 12 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2,022 1,971 1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,457 3,086 2,798 1,993 4,011 2,615 1,993	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128  1,221  1,518  1,454  1,473  2,038  1,696  1,669  1,817  1,983  1,948  1,667  1,862  1,668  2,147  2,155  1,769  2,036  2,595  2,483  2,195  2,315  2,475  2,293  1,870  1,993  2,028  1,631			2,02
2013Q2 202306 #  2013Q2 201306 #  2013Q2 201306 #  2013Q3 201309 #  2013Q4 201312 #  2014Q1 201403 #  2014Q2 201406 #  2014Q2 201406 #  2015Q1 201503 #  2015Q2 201506 201503 #  2015Q2 201501 201503 #  2015Q2 201502 201506 #  2015Q2 201500 201509 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201608 #  2016Q2 201608 #  2016Q2 201609 #  2017Q2 201706 #  2017Q2 201709 #  2017Q2 2017Q9 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1	3 6 9 12 3 6 9 9 12 3 6 6 9 12 3	2,022 1,971 1,631 1,445 1,607 1,697 1,998 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,695 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,695 1,796 1,796 1,695 1,796 1,	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,473 2,038 1,696 1,669 1,817 1,983 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,993			2,02
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5 2023Q2 202306 # # 2023Q2 202306 # # 2013Q2 201306 # # 2013Q2 201306 # # 2013Q2 201306 # # 2014Q2 201403 # 2014Q2 201402 # 2015Q2 2015Q6 # 2015Q2 2016Q6 # 2015Q2 # 2015Q2 2015Q2 # 2015Q2 2015Q2 # 2015Q2 # 2015Q2 2015Q2 # 201		1 2 2 3 4 4 1 1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1	3 6 9 12 3 6 9 12 3 6 6 9 12 2 6 6 9 12 3 6	2,022 1,971  1,631 1,445 1,607 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347	0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128 1,221 1,518 1,454 1,473 2,038 1,689 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,683 1,1982 1,195 2,315 2,475 1,293 1,870 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,909	Forecast		2,02
5 2023Q2 202306 #  5 2013Q2 201306 #  5 2013Q2 201306 #  5 2013Q2 201306 #  5 2013Q3 201309 #  7 2013Q4 201312 #  6 2014Q1 201403 #  7 2014Q2 201406 #  8 2015Q1 201503 #  8 2015Q2 201506 #  8 2015Q1 201503 #  8 2015Q2 201506 #  8 2016Q2 201606 #  9 2016Q4 201612 #  9 2016Q4 201610 #  9 2016Q4 20160 #  9 2016Q4 201610 #		1 2 2 3 4 4 1 1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6	2,022 1,971  1,631 1,445 1,607 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128  1,221  1,518  1,454  1,473  2,038  1,696  1,669  1,817  1,983  1,948  1,667  1,862  1,668  2,147  2,155  1,769  2,036  2,595  2,483  2,195  2,475  2,475  2,293  1,870  1,993  2,028  1,631  1,982  1,853  1,573  1,636  1,615  1,909  1,453	Forecast		2,02
5 2023Q2 202306 # 2023Q2 202306 # 2013Q2 201306 # 2013Q2 201306 # 2013Q2 2013Q6 # 2013Q2 2013Q6 # 2014Q2 2014Q6 # 2014Q2 2014Q2 2014Q6 # 2015Q2 2015Q6 2015Q6 # 2015Q2 2015Q6 2015Q6 # 2015Q2 2015Q6 2015Q6 # 2015Q2 2015Q6 2015Q6 # 2015Q2 20		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1	3 6 9 12 3 6 9 12 3 6 6 9 9 12 3 6 6 9 9 12 2 6 6 9 9 12 2 6 6 9 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 9 12 6 6 6 9 12 6 6 6 9 12 6 6 9 12 6 6 6 9 12 6 6 6 9 12 6 6 6 9 12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2,022 1,971  1,631 1,445 1,607 1,997 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,909 1,453 1,511	Forecast		2,02 1,97
5 2023Q2 202306 # # 2013Q2 201306 # # 2013Q2 201306 # # 2013Q2 201306 # # 2013Q2 201306 # # 2013Q2 2013Q2 # 2013Q2 2013Q2 # 2014Q2 2014Q3 2014Q2 # 2015Q2 2015Q2 2015Q2 # 2015Q2 2015Q2 2015Q2 2015Q2 # 2015Q2 2015Q		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6	2,022 1,971  1,631 1,445 1,607 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,892 1,183 1,820 3,443 2,952 3,457 3,066 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,248 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,993 1,573 1,636 1,615 1,909 1,453 1,511 1,909	Forecast		1,62 1,74 1,74 1,74
5 2023Q2 202306 # # 2023Q2 202306 # 2023Q2 202306 # 2023Q2 202306 # 2023Q2 202306 # 2023Q2 2023Q2 # 2023Q2 202206 # 2022Q2 202206 # 2022Q2 20220 # 2022Q2 2022Q # 2022Q2 2022Q # 2022Q2 2022Q # 2022Q2 202Q2 # 2022Q2 202Q2 # 2022Q2 202Q2 # 202Q2 202Q		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1	3 6 9 12 3 6 9 12 3 6	2,022 1,971  1,631 1,445 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245	0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157 1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,909 1,453 1,511	Forecast		1,62 1,74 2,22
2013Q2 202306 #  2013Q2 201306 #  2014Q2 201403 #  2014Q2 201403 #  2014Q2 201409 #  2015Q2 201506 #  2015Q2 201506 #  2015Q2 201506 #  2015Q2 201506 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201606 #  2016Q2 201609 #  2016Q2 201809 #  2016Q2 201809 #  2018Q2 201809 #  2018Q2 201809 #  2018Q2 201809 #  2019Q2 201809 #  2019Q2 201809 #  2019Q2 201809 #  2020Q2 20200 #		1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 6 9 12 3 6 9 12 3 6	2,022 1,971  1,631 1,445 1,607 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,892 1,183 1,820 3,443 2,952 3,457 3,066 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,766  1,157  1,128 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 1,248 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,993 1,573 1,636 1,615 1,909 1,453 1,511 1,909	Forecast  Forecast  Forecast  Forecast  Forecast  Forecast		2,02 1,97

96 2013Q3 201309 ###	3	9	1,445	0	1	0	0	Ī	1.128		#######	
97 2013Q4 201312 ###	4	12	1,607	0	0	1	0		1,221		#######	
98 2014Q1 201403 ###		3	1,697	0	0	0	0		1,518		#######	
99 2014Q2 201406 ###	2	6	1,908	1	0	0	0		1,454	1	#######	
00 2014Q3 201409 ###	3	9	2,158	0	1	0	0		1,473		#######	
01 2014Q4 201412 ###	4	12	1,275	0	0	1	0		2.038	_	******	
02 2015Q1 201503 ###		3	2,176	0	0	0	0		1,696		#######	
03 2015Q2 201506 ###		6	1,601	1	0	0	0		1,669		******	
04 2015Q3 201509 ###		9	2,421	0	1	0	0		1,817		******	
05 2015Q4 201512 ###		12	1,910	0	0	1	0	-	1,983	-	******	
06 2016Q1 201603 ###		3	986	0	0	0	0	_	1,948		*******	_
07 2016Q2 201606 ###		6		1	0	0	0				#######	
Control of the Contro			1,180						1,667			
		9	2,182	0	1	0	0	-	1,862		#######	
09 2016Q4 201612 ###		12	1,787	0	0	1	0		1,668		#######	
10 2017Q1 201703 ###		3	1,692	0	0	0	0		2,147		#######	
11 2017Q2 201706 ###	_	6	1,183	1	0	0	0	_	2,155		#######	
12 2017Q3 201709 ###	3	9	1,820	0	1	0	0		1,769		******	
13 2017Q4 201712 ###	4	12	3,443	0	0	1	0	1	2,036	T	#######	
14 2018Q1 201803 ###	1	3	2,952	0	0	0	0		2,595		#######	
15 2018Q2 201806 ###	2	6	3,457	1	0	0	0		2,483		#######	
16 2018Q3 201809 ###	3	9	3,086	0	1	0	0	I	2,195	Ī	#######	
17 2018Q4 201812 ###	4	12	2,798	0	0	1	0		2,315		******	
18 2019Q1 201903 ###	1	3	1,391	0	0	0	0		2,475		#######	
19 2019Q2 201906 ###		6	1,933	1	0	0	0		2,293		******	
20 2019Q3 201909 ###		9	4,011	0	1	0	0		1,870		*******	
21 2019Q3 201909 ### 21 2019Q4 201912 ###		12	2,615	0	0	1	0	-	1,993	_	#######	
						_					*******	_
The second secon		3	1,796	0	0	0	0		2,028			
23 202002 202006 ###	_	6	1,635	1	0	0	0		1,631		*******	
24 2020Q3 202009 ###		9	1,499	0	1	0	0	-	1,982		#######	
25 2020Q4 202012 ###		12	1,246	0	0	1	0		1,853		#######	
26 2021Q1 202103 ###		3	2,092	0	0	0	0		1,573		#######	
27 2021Q2 202106 ###	2	6	3,170	1	0	0	0		1,636		#######	
28 2021Q3 202109 ###	3	9	3,885	0	1	0	0	Ī	1,615	Ī	#######	
29 2021Q4 202112 ###	4	12	2,347	0	0	1	0		1,909		******	
30 2022Q1 202203 ###	1	3	1,620	0	0	0	0		1,453	Forecast	#######	1,62
31 2022Q2 202206 ###	2	6	1,743	1	0	0	0		1,511	Forecast	******	1.74
32 2022Q3 202209 ###		9	2,253	0	1	0	0		1,492	Forecast		2,25
33 2022Q4 202212 ###		12	2,245	0	0	1	0	-	1,764	Forecast		2,24
34 2023Q1 202303 ###		3	2,022	0	0	0	0		1,900	Forecast		2.02
35 2023Q2 202306 ###		6	1,971	1	·	U			1,500	Torccast	***********	1,97
33 202342 202300 ###		0										1,97
20 200000 000000 ###					- 41	/EDA	OF/MADD	V400 V40		442 K400 K404 I	CARR MOCH	
36 2023Q3 202309 ### 37 2023Q4 202312 ###		9	2,457 2,348	0	=A\ 0	VERA	GE(K132, 0	K128,K12	4,K120,K116,K 1,878	112,K108,K104,F Forecast		
		7.0	2,457	0				K1 <u>28,K12</u>				2,45
	4	7.0	2,457	0				K128,K12				
7 2013Q4 201312 ###	4	12	2,457 2,348	0	0	1	0	K128,K12	1,878		**********	
2023Q4 202312 ### 7 2013Q4 201312 ### 8 2014Q1 201403 ###	4 4	12	2,457 2,348 1,607 1,697	0 0	0 0	1 0	0 0	K128,K12	1,878 1,221 1,518		******	
7 2013Q4 201312 ### 8 2014Q1 201403 ### 9 2014Q2 201406 ###	4 4 1 2	12 12 3 6	2,457 2,348 1,607 1,697 1,908	0 0 0 1	0 0 0	1 0 0	0 0 0	K128,K12	1,878 1,221 1,518 1,454		**************************************	
7 2013Q4 201312 ### 8 2014Q1 201403 ### 9 2014Q2 201406 ### 50 2014Q3 201409 ###	4 4 1 2 3	12 12 3 6 9	2,457 2,348 1,607 1,697 1,908 2,158	0 0 0 1 0	0 0 0 1	1 0 0 0 0	0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q3 2014Q9 ###  11 2014Q4 201412 ###	4 4 1 1 2 2 3 4 4	12 3 6 9 12	2,457 2,348 1,607 1,697 1,908 2,158 1,275	0 0 0 1 0	0 0 0 0 1	1 0 0 0 1	0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038		**************************************	
7 2013Q4 202312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  01 2014Q4 201412 ###  01 2014Q4 201412 ###  02 2015Q1 201503 ###	4 4 1 1 2 3 4 4 1 1 1	12 3 6 9 12 3	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176	0 0 0 1 0 0	0 0 0 1 0	1 0 0 0 1 1 0	0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696		********* ******** ******* ******* *****	
7 2013Q4 201312 ### 8 2014Q1 201403 ### 9 2014Q2 201406 ### 10 2014Q3 201409 ### 10 2014Q3 201405 ### 10 2015Q1 201503 ### 10 2015Q2 201506 ###	4 4 1 1 2 3 1 4 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601	0 0 0 1 0 0 0	0 0 0 1 0 0	1 0 0 0 1 0 0 0	0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201409 ###  10 2014Q4 201412 ###  11 2014Q4 2015Q1 ###  12 2015Q1 2015Q1 ###  14 2015Q3 2015Q9 ###	4 4 1 1 2 3 4 4 1 1 2 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421	0 0 0 1 0 0 0	0 0 0 0 1 0 0	1 0 0 0 1 0 0 0 0	0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817		**************************************	
7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  101 2014Q4 201412 ###  102 2015Q1 201503 ###  103 2015Q2 2015Q6 ###  104 2015Q3 2015Q6 ###  105 2015Q4 201512 ###  105 2015Q4 201512 ###	4 4 1 1 2 3 4 1 1 2 3 1 4 4 1 1 1 2 4 3 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910	0 0 0 1 0 0 0 0	0 0 0 1 0 0 0	1 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q4 201412 ###  10 2015Q1 201503 ###  10 2015Q2 201506 ###  10 2015Q2 2015Q1 201506 ###  10 2015Q4 201512 ###	4 4 1 1 2 3 4 1 1 2 3 1 4 4 1 1 1 2 4 3 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421	0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 0 0 0	1 0 0 0 1 0 0 0 0	0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817		**************************************	
7 2013Q4 201312 ###  8 2014Q1 2014Q3 2014Q3  9 2014Q2 2014Q6 ###  10 2014Q3 2014Q9 ###  10 2014Q4 201412 ###  10 2015Q1 2015Q3 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q3 2015Q6 ###	4 4 1 2 3 4 1 1 2 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910	0 0 0 1 0 0 0 0	0 0 0 1 0 0 0	1 0 0 0 1 0 0 0 1	0 0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q3 201409 ###  11 2014Q4 201412 ###  12 2015Q1 2015Q1 ###  13 2015Q2 2015Q6 ###  14 2015Q3 2015Q9 ###  15 2015Q4 201512 ###  16 2016Q1 2016Q3 ###  17 2016Q2 2016Q6 ###	4 4 1 1 2 3 4 4 1 1 2 1 2 1 3 4 4 1 1 2 2 1 3 1 4 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986	0 0 0 1 0 0 0 0 1 0	0 0 0 0 1 0 0 0	1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0	0 0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q4 201412 ###  11 2014Q4 201412 ###  12 2015Q1 201506 ###  13 2015Q2 201506 ###  14 2015Q3 201509 ###  15 2015Q4 201512 ###  16 2016Q1 201606 ###  18 2016Q3 201609 ###	4 4 1 1 2 3 4 4 1 1 2 1 3 3 1 4 1 1 2 1 3 3	12 3 6 9 12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180	0 0 0 1 0 0 0 1 0 0	0 0 0 0 1 0 0 0 1 0 0	1 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,699 1,869 1,817 1,983 1,948 1,667		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q3 201409 ###  11 2014Q4 201412 ###  12 2015Q1 2015Q3 ###  13 2015Q2 2015Q6 ###  14 2015Q3 2015Q9 ###  15 2015Q4 201512 ###  16 2016Q1 2016Q3 ###  17 2016Q2 2016Q6 ###  18 2016Q3 2016Q9 ###  19 2016Q4 201612 ###	4 4 1 1 2 3 3 4 4 1 1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	12 3 6 9 12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182	0 0 0 1 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 1	1 0 0 0 1 0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,817 1,983 1,948 1,667 1,862		**********  ********  *******  *******  ****	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q3 201409 ###  11 2014Q4 201412 ###  2 2015Q1 2015Q3 ###  2 2015Q1 2015Q6 ###  4 2015Q2 2015Q6 ###  5 2015Q4 201512 ###  16 2016Q1 2016Q3 ###  17 2016Q2 2016Q6 ###  18 2016Q3 2016Q6 ###  19 2016Q4 201612 ###  10 2017Q1 2017Q3 ###	4 4 1 1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692	0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0	0 0 0 0 1 0 0 0 0 1 0 0	1 0 0 0 1 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0	K128,K12	1,878 1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q4 201412 ###  11 2014Q4 201412 ###  12 2015Q1 201506 ###  13 2015Q2 201506 ###  14 2015Q3 201509 ###  15 2015Q4 201512 ###  16 2016Q1 201603 ###  17 2016Q2 201606 ###  18 2016Q3 201609 ###  19 2016Q4 201612 ###  10 2017Q1 201703 ###  11 2017Q2 201708 ###	4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 1 1 2 2 1 3 4 1 1 2 2 1 3 4 1 1 1 2 2 1 3 4 1 1 1 2 2 1 3 4 1 1 1 1 2 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183	0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0	1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,699 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155		**************************************	
7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q2 201406 ###  10 2014Q3 201409 ###  10 2014Q4 201412 ###  10 2015Q2 201506 ###  10 2015Q2 201506 ###  10 2015Q4 201512 ###  10 2015Q4 201512 ###  10 2016Q4 201606 ###  10 2017Q1 201703 ###  10 2016Q4 201612 ###  10 2017Q1 201700 ###  10 2017Q2 201706 ###  11 2017Q2 201706 ###	4 4 1 2 3 4 4 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 3 4 4 1 4 4 1 3 4 4 1 4 4 1 4 4 4 1 4 4 4 4	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 9 12 9 12 9 12 9 12 9 12 9 12	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q3 201409 ###  10 2015Q1 201503 ###  10 2015Q2 201506 ###  10 2015Q2 201506 ###  10 2016Q1 201603 ###  10 2016Q2 201606 ###  10 2016Q1 201603 ###  10 2016Q2 201606 ###  10 2017Q1 201703 ###  10 2017Q2 201709 ###  11 2017Q3 201709 ###  12 2017Q3 201709 ###  13 2017Q4 201712 ###	4 4 1 1 2 1 3 4 4 1 1 2 3 3 1 4 4 1 1 2 1 3 3 1 4 4 1 1 2 1 3 3 1 4 4 1 1 2 1 3 3 1 4 4 1 1 1 2 1 3 3 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 9 12 9 12 9 12 9 12 9 12 9 12	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443	0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036		**************************************	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 2015Q1 ###  10 2014Q4 2015Q1 ###  10 2015Q4 2015Q6 ###  10 2016Q1 2016Q6 ###  10 2017Q1 2017Q3 ###  11 2017Q2 2017Q6 ###  12 2017Q3 2017Q9 ###  13 2017Q4 2017Q6 ###  14 2018Q1 2018Q3 ###	4 1 1 2 3 4 1 1 2 3 4 1 1 2 2 3 4 1 1 1 2 2 3 3 4 1 1 1 2 2 3 3 4 1 1 1 2 2 3 3 4 1 1 1 1 2 2 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 12 12 12 12 12 12 12 12 12 12 12	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952	0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595		******** ******* ****** ****** ****** ****	
7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q3 2014Q9 ###  10 2014Q4 201412 ###  10 2015Q1 2015Q3 ###  10 2015Q1 2015Q3 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q4 201512 ###  10 2015Q4 2015Q2 ###  10 2015Q4 2015Q2 ###  10 2015Q4 2015Q2 ###  10 2017Q1 2016Q6 ###  10 2017Q1 2017Q6 ###  11 2017Q2 2017Q6 ###  12 2017Q3 2017Q9 ###  13 2017Q4 2017Q2 ###  14 2018Q1 2018Q6 ###  15 2018Q2 2018Q6 ###	4 1 1 2 3 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 2 2 1 3 3 4 4 1 1 1 2 2 1 3 3 4 1 1 1 2 2 1 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 12 3 6 12 3 6 12 3 6 12 3 6 12 3 6 12 3 6 12 3 3 6 12 3 6 12 3 12 3	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457	0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,687 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769 2,036 2,483		********* ******* ******* ****** ******	
7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q3 2014Q9 ###  10 2014Q4 2014Q1 ###  10 2015Q1 2015Q3 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q3 2015Q9 ###  10 2015Q3 2015Q9 ###  10 2015Q3 2015Q9 ###  10 2017Q1 2017Q3 ###  10 2017Q1 2017Q3 ###  11 2017Q2 2017Q6 ###  12 2017Q3 2017Q6 ###  13 2017Q4 201712 ###  14 2018Q1 2018Q6 ###  15 2018Q2 2018Q6 ###  16 2018Q3 2018Q6 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 1 4 4 1 1 1 2 3 3 1 4 4 1 1 1 1 2 3 3 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 9 12 9 12 9 9 12 9 9 9 9 9 9 9 9 9 9	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,487 3,086	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,759 2,036 2,595 2,483 2,195		********  *******  *******  *******  ****	
37 2023Q4 202312 ###  38 2014Q1 2014Q3 ###  39 2014Q1 2014Q6 ###  90 2014Q2 2014Q6 ###  90 2014Q4 201412 ###  91 2015Q1 2015Q6 ###  90 2016Q3 2015Q6 ###  91 2017Q2 2017Q6 ###  91 2017Q2 2017Q6 ###  91 2017Q2 2017Q6 ###  91 2017Q3 2017Q9 ###  91 2017Q3 2017Q9 ###  91 2018Q3 2018Q8 ###	4 4 1 1 2 3 4 4 1 1 2 2 3 4 4 1 1 2 2 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 1 1 1 2 2 3 3 4 1 1 1 2 2 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315		******** ******* ****** ****** ****** ****	
77 2013Q4 201312 ###  78 2013Q4 201312 ###  79 2014Q1 2014Q3 ###  79 2014Q2 2014Q6 ###  70 2014Q4 201412 ###  70 2015Q1 2015Q6 ###  70 2015Q1 2015Q6 ###  70 2015Q1 2015Q6 ###  70 2015Q2 2016Q6 ###  70 2015Q2 2018Q6 ###  71 2018Q2 2018Q6 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 1 3 4 1 1 1 2 1 3 4 1 1 1 1 2 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 12 3 6 12 3 12 3 12 3 12 3 12 3 12	2,457 2,348 1,607 1,697 1,908 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,483 2,195 2,315 2,475		******** ******* ****** ****** ****** ****	
7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  101 2014Q3 2014Q9 ###  101 2014Q4 201412 ###  102 2015Q1 2015Q3 ###  103 2015Q2 2015Q6 ###  104 2015Q3 2015Q6 ###  105 2015Q4 201512 ###  106 2016Q1 2016Q3 ###  107 2016Q2 2016Q6 ###  108 2016Q4 201612 ###  109 2016Q4 201612 ###  101 2017Q4 2017Q1 ###  11 2017Q2 2017Q6 ###  12 2017Q4 2017Q1 ###  13 2017Q4 2017Q1 ###  14 2018Q1 2018Q3 ###  15 2018Q2 2018Q6 ###  16 2018Q3 2018Q9 ###  17 2018Q4 2018Q1 ###  18 2019Q1 2019Q6 ###  19 2019Q2 2019Q6 ###	4 4 1 2 3 4 4 1 1 2 3 4 4 1 1 2 1 3 4 4 1 1 1 2 2 1 3 3 4 4 1 1 1 2 2 1 3 3 4 4 1 1 1 1 2 2 1 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 12 3 6 12 3 6 12 3 6 12 3 6 12 3 6 12 3 6 6 12 3 6 12 3 6 12 3 12 3	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,457 3,086 2,798 1,991 1,993	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293		******** ******* ****** ****** ****** ****	
77 2013Q4 201312 ###  78 2013Q4 201312 ###  79 2013Q4 201312 ###  80 2014Q1 2014Q3 ###  90 2014Q2 2014Q6 ###  90 2014Q3 2014Q9 ###  91 2014Q4 201412 ###  91 2015Q3 2015Q6 ###  91 2016Q3 2015Q6 ###  91 2016Q3 2016Q6 ###  91 2016Q3 2018Q6 ###  91 2016Q3 2018Q3 ###  91 2018Q3 2018Q3 ###  91 2018Q3 2018Q6 ###  91 2019Q3 2019Q6 ###  91 2019Q3 2019Q6 ###  91 2019Q3 2019Q6 ###  91 2019Q3 2019Q6 ###	4 4 1 1 2 3 4 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 12 3 6 9 12 3 12 3 12 3 12 3 12 3 12 3 12 3 12	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,993 4,011	0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0	1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870		******** ******* ****** ****** ****** ****	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 201506 ###  10 2014Q4 201509 ###  10 2015Q4 201506 ###  10 2015Q4 201506 ###  10 2015Q4 201506 ###  10 2015Q4 2015Q6 ###  10 2015Q4 2015Q6 ###  11 2017Q2 201706 ###  12 2017Q4 201712 ###  14 2018Q1 2018Q3 ###  15 2018Q2 2018Q6 ###  16 2018Q2 2018Q6 ###  17 2018Q2 2018Q6 ###  18 2019Q1 2019Q3 ###  19 2019Q2 2019Q6 ###  10 2019Q4 2019Q1 ###  10 2019Q4 2019Q1 ###  10 2019Q4 2019Q1 ###  10 2019Q4 2019Q1 ###	4 4 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 6 9 14 15 16 16 16 16 16 16 16 16 16 16	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615	0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0	1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,689 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,483 2,195 2,475 2,293 1,870 1,993		******** ******* ****** ****** ****** ****	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q3 201409 ###  11 2014Q4 201412 ###  12 2015Q1 201503 ###  13 2015Q2 201506 ###  14 2015Q3 201509 ###  15 2015Q4 201512 ###  16 2016Q1 201606 ###  17 2016Q2 201606 ###  18 2016Q3 201609 ###  19 2016Q4 201512 ###  10 2017Q3 201709 ###  11 2017Q2 201706 ###  12 2017Q3 201709 ###  13 2017Q4 201712 ###  14 2018Q1 201806 ###  15 2018Q2 201806 ###  16 2018Q3 201809 ###  17 2018Q3 201809 ###  18 2019Q3 201909 ###  19 2019Q3 201909 ###  10 2019Q3 201909 ###  11 2019Q4 201912 ###  12 202QQ1 202Q3 ###	4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 1 2 3 4 1 1 1 1 2 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 6 9 14 15 16 16 16 16 16 16 16 16 16 16	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028		******** ******* ****** ****** ****** ****	
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7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q3 201409 ###  11 2014Q4 201412 ###  12 2015Q1 201506 ###  13 2015Q2 201506 ###  14 2015Q2 201506 ###  15 2015Q4 201512 ###  16 2016Q1 201606 ###  17 2016Q2 201606 ###  18 2016Q3 201609 ###  19 2016Q4 201612 ###  10 2017Q1 2017Q3 ###  11 2017Q2 2017Q6 ###  12 2017Q3 2017Q9 ###  13 2017Q4 201712 ###  14 2018Q1 2018Q3 ###  15 2018Q2 2018Q6 ###  16 2018Q3 2018Q9 ###  17 2018Q4 201812 ###  20 2019Q1 2019Q6 ###  20 2019Q3 2019Q9 ###  20 2019Q3 2019Q9 ###  20 2019Q3 2019Q9 ###  21 2019Q4 2019U9 ###  22 202QQ1 202Q08 ###  23 202QQ2 202Q08 ###  23 202QQ2 202Q08 ###	4 4 1 1 2 3 4 1 1 2 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 2 3 3 1 4 1 1 2 2 3 3 1 4 1 1 2 2 3 3 1 4 1 1 2 2 1 3 3 1 4 1 1 2 2 1 3 3 1 4 1 1 2 2 1 3 3 1 4 1 1 1 2 2 1 3 3 1 1 4 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 6 9 14 15 16 16 16 16 16 16 16 16 16 16	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028		******** ******* ****** ****** ****** ****	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 201403 ###  9 2014Q2 201406 ###  10 2014Q2 201406 ###  11 2014Q4 201412 ###  12 2015Q1 201506 ###  13 2015Q2 201506 ###  14 2015Q3 201509 ###  15 2015Q4 201512 ###  16 2016Q1 201603 ###  17 2016Q2 201606 ###  18 2016Q3 201609 ###  19 2016Q4 201612 ###  10 2017Q1 201706 ###  11 2017Q2 201706 ###  12 2017Q3 201709 ###  13 2017Q4 201803 ###  14 2018Q1 201803 ###  15 2018Q2 201806 ###  16 2018Q3 201809 ###  17 2019Q3 201909 ###  18 2019Q3 201909 ###  19 2019Q3 201909 ###  20 2019Q3 201909 ###  21 2019Q4 201912 ###  22 2020Q1 202006 ###  23 202QQ2 202006 ###  24 202Q3 202Q006 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 2 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 1 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 12 12 12 12 12 12 12 12 12 12 12	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,635	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,147 2,036 2,195 2,195 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631		******** ****** ****** ****** ****** ****	
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2015Q1 2015Q6 ###  10 2017Q1 2017Q6 ###  11 2017Q2 2017Q6 ###  12 2015Q1 2015Q6 ###  12 2015Q1 2015Q6 ###  13 2015Q1 2015Q6 ###  14 2018Q1 2015Q6 ###  15 2018Q2 2018Q6 ###  16 2018Q1 2018Q6 ###  17 2018Q2 2018Q6 ###  18 2019Q1 2019Q3 ###  19 2019Q2 2019Q6 ###  20 2019Q1 2019Q3 ###  21 2019Q1 2019Q3 ###  22 202QQ1 202QQ6 ###  23 202QQ1 202QQ6 ###  24 202QQ1 202QQ6 ###  25 202QQ1 202QQ6 ###  26 202QQ1 202QQ6 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 2 1 3 4 4 1 1 2 2 1 3 4 1 1 2 2 1 3 4 1 1 1 2 2 1 3 4 1 1 1 2 2 1 3 4 1 1 1 2 2 3 1 4 1 1 1 2 2 3 1 4 1 1 1 2 2 3 1 4 1 1 1 2 2 3 1 4 1 1 1 1 1 2 2 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 16 16 16 17 18 18 18 18 18 18 18 18 18 18	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,687 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,982		******** ******* ****** ****** ****** ****	
7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q2 2014Q6 ###  10 2014Q4 2014Q2 ###  10 2015Q1 2015Q3 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q6 ###  10 2015Q2 2015Q3 ###  10 2017Q1 2017Q3 ###  11 2017Q2 2017Q6 ###  12 2017Q4 201712 ###  14 2018Q1 2018Q3 ###  15 2018Q2 2018Q6 ###  16 2018Q3 2018Q9 ###  17 2018Q4 2018Q1 ###  18 2019Q1 2019Q6 ###  19 2019Q2 2019Q6 ###  20 202Q2 202Q06 ###  20 202QQ2 202Q06 ###  20 202QQ2 202QQ6 ###  20 202QQ1 202QQ3 ###	4	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 6 9 13 6 9 14 15 16 16 16 16 16 16 16 16 16 16	2,457 2,348 1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,443 2,952 3,443 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,669 1,817 1,983 1,948 1,667 1,862 1,868 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,883 1,573		******** ******* ****** ****** ****** ****	
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37 2023Q4 202312 ###  38 2014Q1 2014Q3 ###  39 2014Q2 2014Q6 ###  90 2014Q3 2014Q6 ###  91 2014Q4 2014Q2 ###  91 2014Q4 2014Q2 ###  92 2015Q1 2015Q6 ###  93 2015Q2 2015Q6 ###  94 2015Q3 2015Q9 ###  95 2016Q4 2015Q2 ###  98 2016Q3 2016Q9 ###  99 2016Q4 2015Q2 ###  90 2016Q4 2015Q2 ###  10 2017Q1 2017Q6 ###  11 2017Q3 2017Q9 ###  12 2017Q3 2017Q9 ###  14 2018Q1 2018Q3 ###  15 2018Q2 2018Q6 ###  16 2018Q3 2018Q9 ###  17 2018Q4 2019Q3 ###  18 2019Q1 2019Q3 ###  18 2019Q1 2019Q3 ###  19 2019Q2 2019Q6 ###  20 2019Q3 2019Q9 ###  21 2019Q4 2019Q2 ###  22 202QQ1 202QQ0 ###  23 202QQ1 202QQ0 ###  24 202QQ1 202QQ0 ###  25 202QQ1 202QQ0 ###  26 202Q1Q1 202Q10 ###  27 202QQ1 202Q10 ###  28 202Q1Q3 202Q00 ###  28 202Q1Q3 202Q00 ###  27 202QQ2 202Q10 ###  28 202Q1Q3 202Q10 ###  28 202Q1Q3 202Q10 ###  28 202Q1Q3 202Q10 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 13 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0	1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,699 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,992 1,853 1,573 1,636 1,615		######################################	
7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q2 2014Q6 ###  10 2014Q4 201412 ###  10 2015Q1 2015Q3 ###  11 2017Q2 2017Q6 ###  12 2017Q3 2017Q9 ###  13 2017Q4 201712 ###  14 2018Q1 2017Q3 ###  15 2018Q2 2018Q6 ###  16 2018Q2 2018Q6 ###  17 2018Q3 2018Q9 ###  18 2019Q3 2019Q9 ###  19 2019Q2 2019Q6 ###  20 201Q3 201QQ3 ###  20 201Q3 202QQ6 ###  20 201Q3 202QQ6 ###  20 201Q3 201QQ9 ###  20 201Q3 201QQ ###  20 201Q4 2021Q ###  20 201Q4 2021Q ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 1 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,443 2,952 3,443 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,687 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,631 1,982 1,636 1,636 1,573 1,636 1,636 1,636 1,636 1,636 1,636 1,636	Forecast	******** ******* ****** ****** ****** ****	2,34
37 2023Q4 202312 ###  38 2014Q1 201312 ###  39 2014Q1 2014Q3 ###  30 2014Q2 2014Q6 ###  30 2014Q3 2014Q9 ###  30 2014Q3 2015Q6 ###  30 2015Q3 2015Q6 ###  30 2022Q1 2020Q6 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 1 3 4 4 1 1 2 3 1 3 4 4 1 1 2 3 1 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 13 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,982 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,631 1,982 1,636 1,616 1,999 1,453	Forecast	******* ****** ****** ****** ****** ****	2,34
37 2023Q4 202312 ###  38 2014Q1 201312 ###  39 2014Q1 2014Q3 ###  90 2014Q2 2014Q6 ###  001 2014Q3 2014Q9 ###  001 2014Q3 2014Q9 ###  002 2015Q1 2015Q6 ###  003 2015Q2 2015Q6 ###  004 2015Q3 2015Q9 ###  005 2016Q3 2016Q9 ###  007 2016Q2 2016Q6 ###  008 2016Q3 2016Q9 ###  009 2016Q4 2015Q1 ###  101 2017Q1 2017Q6 ###  102 2017Q2 2017Q6 ###  103 2017Q2 2017Q6 ###  104 2018Q2 2018Q6 ###  105 2018Q2 2018Q6 ###  105 2018Q2 2018Q6 ###  106 2018Q1 2018Q3 ###  107 2018Q2 2018Q6 ###  108 2019Q3 2019Q9 ###  109 2019Q3 2019Q6 ###  109 2019Q3 2019Q3 ###  109 2019Q3 2019Q9 ###  109 2019Q3 2019Q6 ###  101 2017Q1 2019Q3 ###  102 2019Q4 2019Q1 ###  103 2017Q3 2017Q9 ###  104 2018Q1 2019Q3 ###  105 2019Q3 2019Q9 ###  107 2018Q2 2019Q6 ###  108 202Q4 202Q1 ###  109 2019Q3 202Q0 ###  109 202Q4 202Q1 ###  109 202Q4 202Q1 ###  109 202Q4 202Q9 ###  109 202Q4 202Q1 ###  109 202Q4 202Q1 ###  109 202Q4 202Q1 ###  109 202Q4 202Q9 ###  109 202Q4 202Q9 ###  109 202Q4 202Q1 ###  109 202Q4 202Q9 ###	4 4 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 13 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,699 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,992 1,853 1,573 1,636 1,615 1,999 1,453	Forecast	******** ******* ****** ****** ****** ****	1,621
77 2013Q4 201312 ###  78 2013Q4 201312 ###  79 2014Q1 2014Q3 ###  79 2014Q2 2014Q6 ###  79 2014Q2 2014Q6 ###  70 2015Q1 2015Q3 ###  70 2015Q1 2015Q3 ###  70 2015Q1 2015Q3 ###  70 2015Q2 2015Q6 ###  70 2015Q2 2015Q2 ###  70 2015Q2 2022Q6 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 13 16 16 16 17 18 18 18 18 18 18 18 18 18 18	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,4457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769 2,036 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,993 2,028 1,631 1,993 1,573 1,636 1,615 1,909 1,453 1,573	Forecast	######################################	1,62 1,74 2,25
37         2023Q4 202312 ###           78         2013Q4 201312 ###           88         2014Q1 2014Q3 ###           99         2014Q2 2014Q6 ###           90         2014Q3 2014Q9 ###           90         2014Q3 2015Q6 ###           91         2015Q1 2015Q6 ##           92         2015Q1 2015Q6 ##           94         2015Q3 2015Q9 ###           95         2015Q4 201512 ###           96         2016Q1 2016Q3 ###           97         2016Q2 2016Q6 ###           98         2016Q3 2016Q9 ###           99         2016Q3 2016Q9 ###           90         2016Q3 2016Q6 ###           90         2016Q3 2016Q9 ###           91         2017Q2 2017Q6 ###           91         2017Q2 2017Q8 ###           92         2016Q4 2011Q2 ###           92         2016Q4 2011Q2 ###           92         2016Q4 2011Q2 ###           92         2016Q4 2019Q9 ###           92         2016Q4 2019Q9 ###           92         202Q4 202Q12           92         202Q4 202Q10           92         202Q4 202Q12           92         202Q4 202Q12           92         202Q4 202Q10	4 4 1 1 2 3 4 1 1 2 3 4 4 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 3 6 9 12 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,443 2,952 3,443 2,952 3,443 2,952 3,443 2,952 3,470 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,999 1,453 1,511 1,492 1,764	Forecast Forecast Forecast Forecast Forecast Forecast	******** ******* ****** ****** ****** ****	1,62° 1,74° 2,24°
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 2015Q1 ###  11 2014Q4 2015Q1 ###  12 2014Q4 2015Q1 ###  13 2014Q4 2015Q1 ###  14 2018Q1 2018Q8 ###  15 2018Q2 2018Q8 ###  16 2018Q2 2018Q8 ###  17 2014Q4 2019Q1 ###  18 2019Q1 2019Q3 ###  19 2019Q4 2019Q1 ###  20 2019Q4 2019Q1 ###  20 2019Q4 2019Q1 ###  20 201Q4 202Q04 ###  20 201Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q3 202Q08 ###  20 202Q3 202Q08 ###  20 202Q3 202Q08 ###  20 202Q3 202Q08 ###  20 202Q3 202Q09 ###  20 202Q3 202Q08 ###  20 202Q3 202Q09 ###  20 202Q3 202Q08 ###  20 202Q3 202Q09 ###  20 202Q3 202Q09 ###  20 202Q3 202Q3 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 13 13 13 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,4457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,696 1,669 1,817 1,983 1,948 1,667 1,662 1,668 2,147 2,155 1,769 2,036 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,993 2,028 1,631 1,993 1,573 1,636 1,615 1,909 1,453 1,573	Forecast  Forecast  Forecast  Forecast  Forecast  Forecast  Forecast	######################################	1,622 1,74 2,25 2,02
77 2013Q4 201312 ###  78 2013Q4 201312 ###  79 2013Q4 201312 ###  80 2014Q1 2014Q3 ###  90 2014Q3 2014Q9 ###  91 2014Q4 201412 ###  91 2014Q4 201412 ###  91 2014Q4 2015Q1 ###  92 2014Q4 2015Q1 ###  92 2014Q4 2015Q1 ###  93 2024Q4 2021Q1 ###  93 2024Q4 2022Q1 ###  93 2024Q4 2022Q1 ###  93 2024Q4 2022Q1 ###  94 2022Q2 202Q06 ###  95 2022Q4 202Q1Q ###  96 2022Q4 202Q04 ###  97 2024Q4 2021Q1 ###  98 2024Q4 2021Q1 ###  99 2024Q4 2022Q1 ###  99 2024Q4 2022Q1 ###  90 2024Q4 2022Q4 ###  90 2024Q4 2022Q4 ###  90 2024Q4 2022Q4 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 3 6 9 12 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,443 2,952 3,443 2,952 3,443 2,952 3,443 2,952 3,443 2,952 3,470 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,999 1,453 1,511 1,492 1,764	Forecast Forecast Forecast Forecast Forecast Forecast	######################################	1,62° 1,74° 2,24°
77 2013Q4 201312 ###  78 2013Q4 201312 ###  79 2014Q1 2014Q3 ###  79 2014Q2 2014Q6 ###  79 2014Q2 2014Q6 ###  70 2014Q4 201412 ###  70 2015Q1 2015Q6 ###  70 2015Q1 2015Q6 ###  70 2015Q2 2015Q0 ###	4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 2 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 3 6 9 9 12 12 3 6 9 9 12 12 13 13 14 15 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245 2,022	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K128,K12	1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,689 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,909 1,453 1,511 1,492 1,764	Forecast  Forecast  Forecast  Forecast  Forecast  Forecast  Forecast	######################################	1,622 1,74 2,25 2,02
7 2013Q4 201312 ###  7 2013Q4 201312 ###  8 2014Q1 2014Q3 ###  9 2014Q2 2014Q6 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 201412 ###  10 2014Q4 2015Q1 ###  11 2014Q4 2015Q1 ###  12 2014Q4 2015Q1 ###  13 2014Q4 2015Q1 ###  14 2018Q1 2018Q8 ###  15 2018Q2 2018Q8 ###  16 2018Q2 2018Q8 ###  17 2014Q4 2019Q1 ###  18 2019Q1 2019Q3 ###  19 2019Q4 2019Q1 ###  20 2019Q4 2019Q1 ###  20 2019Q4 2019Q1 ###  20 201Q4 202Q04 ###  20 201Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q4 202Q04 ###  20 202Q3 202Q08 ###  20 202Q3 202Q08 ###  20 202Q3 202Q08 ###  20 202Q3 202Q08 ###  20 202Q3 202Q09 ###  20 202Q3 202Q08 ###  20 202Q3 202Q09 ###  20 202Q3 202Q08 ###  20 202Q3 202Q09 ###  20 202Q3 202Q09 ###  20 202Q3 202Q3 ###	4 4 1 1 2 3 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 2 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 13 13 16 16 16 16 16 16 16 16 16 16	2,457 2,348  1,607 1,697 1,998 2,158 1,275 2,176 1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,445 3,086 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245 2,022 1,971	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1,878  1,221 1,518 1,454 1,473 2,038 1,696 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,982 1,853 1,673 1,636 1,615 1,909 1,453 1,511 1,492 1,764 1,900 1,766	Forecast  Forecast  Forecast  Forecast  Forecast  Forecast  Forecast	******** ******* ****** ****** ****** ****	1,62 1,74 2,25 2,24 1,97

								_					
98 2014Q1 201403	###	1	3	1,697	0	0	0	0	I	1,518		#######	
99 2014Q2 201406	###	2	6	1,908	1	0	0	0		1,454		#######	
100 2014Q3 201409	###	3	9	2,158	0	1	0	0		1,473		#######	
	###	4	12	1.275	0	0	1	0		2.038		#######	
	###	1	3	2,176	0	0	0	0		1,696		#######	
A STATE OF THE PARTY OF THE PAR	###	2	6	1,601	1	0	0	0	-	1,669		#######	
Company of the Compan	###	3	9	2.421	0	1	0	0		1,817		******	
The second secon	###	4	12	1,910	0	0	1	0		1,983		******	
The state of the s	###	1	3	986	0	0	0	0		1,948		#######	
CONTRACTOR STATE OF THE PARTY O	###	2	6		1	0	0	0	<del></del>	1,667	_	#######	
Control Contro				1,180						The state of the s			
Children and Company of the Company	###	3	9	2,182	0	1	0	0		1,862		#######	
	###	4	12	1,787	0	0	1	0		1,668		#######	
The state of the s	###	1	3	1,692	0	0	0	0	_	2,147		#######	
CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	###	2	6	1,183	1	0	0	0		2,155		#######	
Control of the Contro	###	3	9	1,820	0	1	0	0		1,769		#######	
	###	4	12	3,443	0	0	1	0		2,036		#######	
114 2018Q1 201803	###	1	3	2,952	0	0	0	0	1	2,595		#######	
115 2018Q2 201806	###	2	6	3,457	1	0	0	0	Ī	2,483		#######	
116 2018Q3 201809	###	3	9	3,086	0	1	0	0		2,195		#######	
117 2018Q4 201812	###	4	12	2,798	0	0	1	0		2,315		#######	
118 2019Q1 201903	###	1	3	1,391	0	0	0	0	Ī	2,475	Ī	#######	
119 2019Q2 201906	###	2	6	1,933	1	0	0	0	Ī	2,293		#######	
120 2019Q3 201909	###	3	9	4,011	0	1	0	0		1,870		#######	
121 2019Q4 201912	###	4	12	2,615	0	0	1	0		1,993		******	
	###	1	3	1,796	0	0	0	0		2,028		#######	
CONTRACTOR OF THE PERSON OF TH	###	2	6	1,635	1	0	0	0	-	1,631		******	
120 2121 22	###	3	9	1,499	0	1	0	0		1,982		******	
	###	4	12	1,246	0	0	1	0		1,853		#######	
	###	1	3	2.092	0	0	0	0		1,573		#######	
	###	2	6	3,170	1	0	0	0	-	1,636		*******	
Control of the Contro							0					*******	
128 2021Q3 202109		3	9	3,885	0	1		0		1,615			
	###	4	12	2,347	0	0	1	0	_	1,909	-	#######	1.620
	###	1	3	1,620	0	0	0	0		1,453	Forecast		.,,
Management and Company of the Compan	###	2	6	1,743	1	0	0	0		1,511	Forecast		1,743
	###	3	9	2,253	0	1	0	0		1,492	Forecast		2,253
The state of the s	###	4	12	2,245	0	0	1	0		1,764	Forecast		2,245
TOT LOLOGO	###	1	3	2,022	0	0	0	0		1,900	Forecast		2,022
	###	2	6	1,971	1	0	0	0		1,766	Forecast	#######	1,971
136 2023Q3 202309	###	3	9	2,457	0	1	0	0		1,720	Forecast	#######	2,457
137 2023Q4 202312	###	4	12	2,348	0								2,348
138 2024Q1 202403	###	1	3	2,051	0	=A	VER	AGE(K134,	K130,K126	K122,K118,K	114,K110,K106,	K102,K98)	2,051
139 2024Q2 202406	###	2	6	2,026	1	0	0	0	The same of the sa	1,826	Forecast	#######	2,026
	###	3	6 9 12	1,908 2,158 1,275	0	1 0	0	0	1	1,454		#######	
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		1	3	2,176	0	0	0	0	-	1,696		#######	
THE RESIDENCE OF THE PARTY OF T	###	2	6	1,601	1	0	0	0		1,696 1,669		####### ########	
104 2015Q3 201509 #	###	3	6	1,601 2,421	1	0	0	0 0		1,696 1,669 1,817		###### ####### ########	
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104 2015Q3 201509 # 105 2015Q4 201512 # 106 2016Q1 201603 #	""" """	2 3 4	6 9 12 3	1,601 2,421 1,910 986	0 0	0 1 0	0 0 1 0	0 0 0 0		1,696 1,669 1,817 1,983 1,948		###### ###### ###### ######	
104 2015Q3 201509 # 105 2015Q4 201512 # 106 2016Q1 201603 # 107 2016Q2 201606 #	### ### ### ###	2 3 4 1 2	6 9 12 3 6	1,601 2,421 1,910 986 1,180	1 0 0 0	0 1 0 0	0 0 1 0	0 0 0 0		1,696 1,669 1,817 1,983 1,948 1,667		####### ####### ####### ####### #######	
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104 2015Q3 2015Q9 4 105 2015Q4 201512 4 106 2016Q1 2016Q3 4 107 2016Q2 2016Q6 4 108 2016Q3 2016Q6 4 109 2016Q4 201612 4 110 2017Q1 2017Q6 4 111 2017Q1 2017Q6 4 112 2017Q3 2017Q6 4 113 2017Q4 201712 4 114 2018Q1 2018Q3 4 115 2018Q3 2018Q6 4 116 2018Q3 2018Q6 4 117 2018Q3 2018Q6 4 118 2019Q1 2019Q3 4 119 2019Q2 2019Q6 4 120 2019Q3 2019Q6 4 120 2019Q3 2019Q6 4 121 2019Q3 2019Q6 4 122 202QQ1 202Q06 4 123 202QQ1 202Q06 4 124 202Q3 202Q06 4 125 202Q4 202Q12 4 126 202Q3 202Q06 4 127 2021Q3 202Q06 4 128 202Q3 202Q06 4 129 202Q3 202Q06 4 130 202Q3 202Q06 4 131 202Q3 202Q09 4 132 202Q3 202Q09 4 133 202Q3 202Q09 4 133 202Q3 202Q09 4 133 202Q3 202Q09 4 133 202Q3 202Q3 202Q3 4 133 202Q3 202Q3 202Q3 4 133 202Q3 202Q3 3	**************************************	2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 2 3 4 4 1 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 4 1 1 2 3 4 4 1 1 2 3 4 4 4 1 1 2 3 4 4 4 1 1 2 3 4 4 4 1 1 2 3 4 4 4 1 2 3 4 4 4 4 1 2 3 4 4 4 4 4 4 4 4 4 4 1 2 3 4 4 4 4 4 4 4 4 4 4 4 5 4 3 4 4 4 4 4	6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 6 9 12 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,006 2,798 1,391 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245 2,022	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1,696 1,669 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,475 2,293 1,517 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,909 1,453 1,511 1,492 1,764 1,900	Forecast Forecast Forecast Forecast		1,743 2,253 2,245 2,022
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104 2015Q3 2015Q9 105 2015Q4 2015Q2 2015Q4 2015Q2 1016Q3 2016Q6 1009 2016Q4 2016Q2 2016Q6 1100 2016Q3 2016Q6 110	**************************************	2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 4 1 2 3 4 4 4 1 2 3 4 4 4 1 2 3 4 4 4 4 4 1 2 3 4 4 4 4 4 4 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 12 3 6 9 12 12 12 3 6 9 12 12 12 3 6 9 12 12 12 3 6 9 12 12 12 12 12 12 12 12 12 12 12 12 12	1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,931 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245 2,022 1,971 2,457 2,348	1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0	0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1,696 1,669 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,475 2,293 1,870 2,028 1,631 1,993 2,028 1,631 1,993 2,028 1,631 1,573 1,636 1,615 1,909 1,453 1,571 1,492 1,764 1,900 1,766	Forecast Forecast Forecast Forecast Forecast		1,743 2,253 2,245 2,022 1,971 2,457 2,348
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104 201503 201509 1 105 201504 201512 1 106 201604 201606 1 107 201602 201606 1 108 201603 201609 1 109 201604 201612 1 110 201701 201703 1 111 201702 201706 1 112 201703 201709 1 113 201704 201712 1 114 201801 201803 1 115 201802 201806 1 116 201803 201806 1 117 201804 201812 1 118 201901 201906 1 120 201902 201906 1 120 201902 201906 1 121 201904 201912 1 122 202001 202003 1 123 202004 202012 1 124 20203 202009 1 125 20204 202012 1 126 202104 202109 1 127 202102 202006 1 128 202103 202109 1 129 202104 202109 1 129 202104 202109 1 129 202104 202109 1 129 202104 202109 1 129 202104 202109 1 130 202204 202009 1 131 202204 202009 1 132 202204 202009 1 133 202204 202009 1 134 202304 202012 1 135 202204 202009 1 136 202304 202209 1 137 202304 202306 1 138 202304 202302 1 139 202304 202306 1 139 202304 202302 1 139 202304 202309 1 137 202304 202302 1 139 202304 202309 1 137 202304 202306 1 139 202304 202309 1 137 202304 202302 1	**************************************	2 3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 4 1 1 2 3 4 4 1 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 4 1 2 3 4 4 4 1 2 3 4 4 4 1 2 3 4 4 4 4 4 1 2 3 4 4 4 4 4 4 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 3 6 9 12 12 12 3 6 9 12 12 12 3 6 9 12 12 12 3 6 9 12 12 12 3 6 9 12 12 12 12 12 12 12 12 12 12 12 12 12	1,601 2,421 1,910 986 1,180 2,182 1,787 1,692 1,183 1,820 3,443 2,952 3,457 3,086 2,798 1,391 1,931 1,933 4,011 2,615 1,796 1,635 1,499 1,246 2,092 3,170 3,885 2,347 1,620 1,743 2,253 2,245 2,022 1,971 2,457 2,348	1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K131,K127,	1,696 1,669 1,669 1,817 1,983 1,948 1,667 1,862 1,668 2,147 2,155 1,769 2,036 2,595 2,483 2,195 2,315 2,475 2,293 1,870 1,993 2,028 1,631 1,993 2,028 1,631 1,982 1,853 1,573 1,636 1,615 1,909 1,453 1,571 1,492 1,764 1,900 1,766 1,720 1,878	Forecast Forecast Forecast Forecast Forecast Forecast	******** ******* ******* ******* ******	1,743 2,253 2,245 2,022 1,971 2,457 2,348 2,051 2,026

100 2014Q3 201409 ###	3	9	2,158	0	1	0	0	1,473	Ī	#######	
101 2014Q4 201412 ###	4	12	1,275	0	0	1	0	2,038		#######	
102 2015Q1 201503 ###	1	3	2,176	0	0	0	0	1,696	4	#######	
103 2015Q2 201506 ###	2	6	1,601	1	0	0	0	1,669		#######	
104 2015Q3 201509 ###	3	9	2,421	0	1	0	0	1,817	Ī	#######	
105 2015Q4 201512 ###	4	12	1,910	0	0	1	0	1,983		******	
106 2016Q1 201603 ###	1	3	986	0	0	0	0	1,948		#######	
107 2016Q2 201606 ###	2	6	1,180	1	0	0	0	1,667	<u>l</u>	#######	
108 2016Q3 201609 ###	3	9	2,182	0	1	0	0	1,862	Ī	#######	
109 2016Q4 201612 ###	4	12	1,787	0	0	1	0	1,668	4	#######	
110 2017Q1 201703 ###	1	3	1,692	0	0	0	0	2,147		#######	
111 2017Q2 201706 ###	2	6	1,183	1	0	0	0	2,155	1	#######	
112 2017Q3 201709 ###	3	9	1,820	0	1	0	0	1,769	1	#######	
113 2017Q4 201712 ###	4	12	3,443	0	0	1	0	2,036		#######	
114 2018Q1 201803 ###	1	3	2,952	0	0	0	0	2,595		#######	
115 2018Q2 201806 ###	2	6	3,457	1	0	0	0	2,483	1	#######	
116 2018Q3 201809 ###	3	9	3,086	0	1	0	0	2,195	Ī	#######	
117 2018Q4 201812 ###	4	12	2,798	0	0	1	0	2,315		******	
118 2019Q1 201903 ###	1	3	1,391	0	0	0	0	2,475		#######	
119 2019Q2 201906 ###	2	6	1,933	1	0	0	0	2,293	1	#######	
120 2019Q3 201909 ###	3	9	4,011	0	1	0	0	1,870	Ī	#######	
121 2019Q4 201912 ###	4	12	2,615	0	0	1	0	1,993		#######	
122 2020Q1 202003 ###	1	3	1,796	0	0	0	0	2,028		#######	
123 2020Q2 202006 ###	2	6	1,635	1	0	0	0	1,631	1	#######	
124 2020Q3 202009 ###	3	9	1,499	0	1	0	0	1,982	Ī	#######	
125 2020Q4 202012 ###	4	12	1,246	0	0	1	0	1,853		#######	
126 2021Q1 202103 ###	1	3	2,092	0	0	0	0	1,573		#######	
127 2021Q2 202106 ###	2	6	3,170	1	0	0	0	1,636		#######	
128 2021Q3 202109 ###	3	9	3,885	0	1	0	0	1,615	Ī	#######	
129 2021Q4 202112 ###	4	12	2,347	0	0	1	0	1,909		#######	
130 2022Q1 202203 ###	1	3	1,620	0	0	0	0	1,453	Forecast	######	1,620
131 2022Q2 202206 ###	2	6	1,743	1	0	0	0	1,511	_Forecast	#######	1,743
132 2022Q3 202209 ###	3	9	2,253	0	1	0	0	1,492	Forecast	#######	2,253
133 2022Q4 202212 ###	4	12	2,245	0	0	1	0	1,764	Forecast	#######	2,245
134 2023Q1 202303 ###	1	3	2,022	0	0	0	0	1,900	Forecast	#######	2,022
135 2023Q2 202306 ###	2	6	1,971	1	0	0	0	1,766	Forecast	#######	1,971
136 2023Q3 202309 ###	3	9	2,457	0	1	0	0	1,720	Forecast	#######	2,457
137 2023Q4 202312 ###	4	12	2,348	0	0	1	0	1,878	Forecast	#######	2,348
138 2024Q1 202403 ###	1	3	2,051	0	0	0	0	1,933	Forecast	#######	2,051
139 2024Q2 202406 ###	2	6	2,026								026
140 2024Q3 202409 ###	3	9	2,511	=A1	VER.	AGE(	K136,K1	32,K128,K124,K120,K116,K1	12,K108,K10	4,K100)	511
141 2024Q4 202412 ###	4	12	2,407	0	0	1	0	1.944	Forecast	******	2,407

### APPENDIX G

Screenshot from TURN's revised workpapers for Ex. TURN-14, SCG-SDGE-TURN-002 attach3\_erratum, Tab "11-GrcSummary"

