

Company: Southern California Gas Company (U 904 G)
Proceeding: 2024 General Rate Case
Application: A.22-05-015/-016 (cons.)
Exhibit: SCG-235

**REBUTTAL TESTIMONY
OF EDUARDO J. MARTINEZ
(CUSTOMER FORECAST)**

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



May 2023

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**REBUTTAL TESTIMONY OF
EDUARDO J. MARTINEZ
(CUSTOMER FORECAST)**

I. SUMMARY OF DIFFERENCES

**TABLE EM-1
RESIDENTIAL SINGLE-FAMILY CUSTOMER FORECAST**

	Base Year 2021	Test Year 2024	Total % Change
SOCALGAS	3,790,736	3,863,332	1.9%
CAL ADVOCATES	3,790,736	3,847,512	1.5%
TURN	3,790,736	3,839,730	1.3%

**TABLE EM-2
RESIDENTIAL MULTI-FAMILY CUSTOMER FORECAST**

	Base Year 2021	Test Year 2024	Total % Change
SOCALGAS	1,839,450	1,893,115	2.9%
CAL ADVOCATES	1,839,450	1,870,704	1.7%
TURN	1,839,450	1,871,826	1.8%

The Southern California Gas Company’s (SoCalGas) direct testimony included forecasts for residential (including single-family, multi-family, and master meter), commercial, and industrial customer groups. Cal Advocates and TURN only contest single-family and multi-family, as shown in the tables above.

II. INTRODUCTION

This rebuttal testimony (1) adopts the direct testimony of Scott Wilder¹ regarding SoCalGas’s proposed Customer Forecasts, (2) addresses the following testimony from other parties:

- The Public Advocates Office of the California Public Utilities Commission (Cal Advocates) as submitted by Maricela Sierra (Exhibit (Ex.) CA-18-E (Sierra)), dated April 2023.

¹ May 2022, Prepared Direct Testimony of Scott Wilder, Ex. SCG-35, adopted by Eduardo J. Martinez.

- 1 • The Utility Reform Network (TURN), as submitted by Jaime McGovern
2 (Ex. TURN-14 (McGovern)), dated March 2023.
- 3 • Small Business Utility Advocates (SBUA), as submitted by Richard
4 McCann and Stephen Moss (Ex. SBUA (McCann/Moss)), dated March
5 2023.
- 6 • Environmental Defense Fund (EDF) as submitted by Michael Colvin,
7 Richard McCann, and Joon Hun Seong (Ex. EDF-01 (McCann/Seong)),
8 dated March 2023.

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

15 In SoCalGas's view, the company submitted sensible and reasonable customer forecasts
16 in its direct testimony, based on tested statistical relationships between realized customer
17 additions and economic explanatory variables (*i.e.*, housing starts, employment). This tested
18 methodology helps to ensure that reasonable customer forecasts are produced for rate setting and
19 other purposes. As discussed further below, the California Public Utilities Commission
20 (Commission or CPUC) should reject Cal Advocates and TURN's recommendations to replace
21 tested statistical-based forecast modeling with an alternative based on a crude and
22 unrepresentative historical average, which they then weigh down, and arbitrarily apply to only a
23 subset of customer class forecasts. Additionally, the Commission should likewise reject the
24 unfounded and unsupported recommendations of EDF and SBUA that there should be no
25 increase in residential customers for Test Year (TY) 2024.

26 **III. SUMMARY OF PARTY POSITIONS**

27 **A. Cal Advocates**

28 The following is a summary of Cal Advocates' positions on the SoCalGas Gas Customer
29 Forecast:²

² Ex. CA-18-E (Sierra) at 2.

- 1 • Cal Advocates asserts that economic vendor forecasts over-forecast
2 housing starts leading to over forecast of meters (or customers) for single-
3 family and multi-family residential. Notably, however, Cal Advocates
4 does not object to the use of economic vendor forecasts of employment for
5 Commercial customers.
- 6 • To replace SoCalGas’s customer growth forecasts for the single-family
7 and multi-family residential classes, which SoCalGas calculated using
8 econometric modelling, Cal Advocates recommends alternative forecasts
9 based on a backward-looking 10-year moving average of new customer
10 connections. Cal Advocates further recommends that average customer
11 growth should then be discounted by 50% as of July 2023 to account for
12 the Commission’s Decision (D.) 22-09-026, which eliminated gas pipeline
13 extension allowances, refunds, and discounts for all new applications
14 submitted on or after July 1, 2023, for all customers in all customer
15 classes, unless otherwise exempted.
- 16 • Cal Advocates challenges SoCalGas’s use of an add-factor in its model as
17 not a standard practice and suggests that it be disallowed.
- 18 • For the next GRC, Cal Advocates argues that SoCalGas should not use the
19 AREMOS software in favor of up-to-date econometric software and,
20 relatedly, should provide its raw data for variables in Microsoft Excel
21 format including active cells, source, and links.

22 **B. TURN**

23 The following is a summary of TURN’s positions on the SoCalGas Gas Customer
24 Forecast:³

- 25 • Like Cal Advocates, TURN argues that economic vendors over-forecast
26 housing starts and are therefore unreliable as a forecast input.
- 27 • Also like Cal Advocates, TURN would replace SoCalGas’s customer
28 growth forecasts for only the single-family and multi-family residential

³ Ex. TURN-14 (McGovern) at 4.

1 customer classes, which SoCalGas calculated using econometric
2 modelling.

- 3 • TURN recommends alternative forecasts based on a backward-looking
4 ten-year moving average for customer growth rate.
- 5 • For 2024, TURN recommends adjusting the rate of gas customer growth
6 downward by 50% in 2024 to account for the D.22-09-026, which is
7 effective July 1, 2023.
- 8 • Echoing Cal Advocates again, TURN alleges that SoCalGas and
9 SDG&E's add-factor in residential gas customer model is not standard
10 practice.
- 11 • TURN suggests that SoCalGas and SDG&E should explore whether using
12 housing completions would eliminate the need to use lagged housing starts
13 for gas customer forecasts.
- 14 • TURN argues that the Commission should establish a one-way balancing
15 account to refund residential customers any cost savings generated by
16 unrealized customer counts.
- 17 • TURN states that all workpapers for customer forecast numbers should be
18 filed in electronic spreadsheet workable format and customer forecasts
19 should be modeled using publicly available data and Microsoft Excel.

20 **C. EDF**

21 The following is a summary of EDF's position on the SoCalGas Gas Customer Forecast:⁴

- 22 • EDF alleges that SoCalGas customers will decline in conjunction with
23 declining gas usage because of California's decarbonization policies.

24 **D. SBUA**

25 The following is a summary of SBUA's position on the SoCalGas Gas Customer
26 Forecast:⁵

- 27 • SBUA alleges that SoCalGas customer growth should largely disappear
28 because of California Air Resources Board's (CARB) new regulations

⁴ Ex. EDF-01 (McCann/Seong) at 9.

⁵ Ex. SBUA-01 (McCann/Moss) at 5-6.

1 ending the purchase of new and replacement gas-fueled appliances and
2 furnaces.

3 Section II of this rebuttal testimony rebuts the assertions by EDF and SBUA regarding
4 the effect on customer counts due to policies driving declining gas demand. Section III of this
5 rebuttal testimony demonstrates that the critiques of SoCalGas's forecast methodology by Cal
6 Advocates and TURN lack merit and that SoCalGas's methodology produces reasonable forecast
7 results. Section IV of this rebuttal testimony addresses alternative forecast methodologies
8 proposed by Cal Advocates and TURN, demonstrating that they are unreasonable and should not
9 be adopted in this proceeding. Finally, Section V of this rebuttal testimony addresses certain
10 other issues raised in parties' testimony.

11 **IV. GENERAL REBUTTAL TO INTERVENOR ARGUMENTS THAT DECLINING**
12 **GAS DEMAND WILL NECESSARILY LEAD TO A DECLINE IN CUSTOMER**
13 **COUNTS**

14 Two intervenors—EDF and SBUA—argue generally that SoCalGas's customer growth
15 and perhaps even total customer counts will experience declines by TY 2024 for reasons related
16 to reduced demand for natural gas. As discussed below, SoCalGas believes these arguments are
17 unsupported and inconsistent with historical experience.

18 **A. EDF**

19 EDF states that SoCalGas's customers will decline along with falling demand for natural
20 gas as result of California's decarbonization goals and policies.⁶ SoCalGas disagrees with EDF's
21 assertion that its customer count and demand for natural gas will both decline by the 2024 GRC
22 test year.

23 Declining gas demand does not necessarily mean that the utility will experience a decline
24 in its customer growth, let alone an actual loss of customers. In fact, history points to a contrary
25 conclusion. SoCalGas has experienced downward trending demand while simultaneously
26 gaining customers since 2001 despite California's aggressive energy efficiency goals and
27 policies during this time period. For instance, over the period 2001 to 2021, SoCalGas system
28 total throughput declined from 3,225 MMCF/day to 2,443 MMCF/day while residential
29 customer meters increased from 4,989,519 to 5,807,831.⁷ Based on this history, SoCalGas does

⁶ Ex. EDF-01 (McCann/Seong) at 9.

⁷ See 2002 California Gas Report, p. 65; 2022 California Gas Report, p. 184; SCG-35-WP p. 6.

1 not believe that it is reasonably foreseeable that there will be a decline in customer growth due to
2 decline in demand for natural gas for the TY 2024. To the contrary, given the history cited
3 immediately above, SoCalGas believes the more reasonable conclusion is that it will continue to
4 experience customer growth through TY 2024 even if demand declines during the period
5 governed by the forecasts adopted in this proceeding. In any event, EDF fails to provide any
6 analysis to support its predictions of declining customers, much less quantify the magnitude of
7 the claimed decline. Instead, EDF's gas customer forecast rests entirely on an unsupported
8 assertion.

9 **B. SBUA**

10 SBUA's position is as follows:

11 For the gas utilities, the recent Commission decision related to line extensions and
12 the California Air Resources Board's (CARB) new regulations ending the
13 purchase of new and replacement gas-fueled appliances and furnaces suggest that
14 customer growth should largely disappear.⁸

15 SoCalGas disagrees with SBUA's assertion that customer growth will largely disappear
16 by TY 2024. As a threshold matter, SBUA fails to provide any analytical basis or evidence to
17 support its assertion. In addition, SBUA ignores the fact that a sizable amount of new residential
18 construction and gas-fueled appliances will not be impacted by CPUC and CARB decisions and
19 regulations by TY 2024, thereby limiting any impacts on SoCalGas's customer growth for this
20 GRC. The CPUC's disallowance of gas line extensions' allowances, refunds, and discounts does
21 not go into effect until July 1, 2023. CARB's regulations have not yet been developed or
22 adopted. Moreover, as pointed out in the previous subsection with respect to a similar argument
23 from EDF, SoCalGas, in fact, has experienced customer growth even with declining demand for
24 natural gas as the state aggressively pursues energy efficiency goals and policies. Thus, SBUA's
25 arguments about the future impacts of policies that have yet to be implemented are not only
26 unsupported and speculative, but they are also inconsistent with historical experience. As such,
27 they do not detract from the reasonableness of the forecasts proposed by SoCalGas.

⁸ Ex. SBUA (McCann/Moss) at 5-6.

1 **V. SOCALGAS'S PROPOSED SINGLE-FAMILY AND MULTI-FAMILY**
2 **CUSTOMER FORECASTS ARE REASONABLE**

3 Cal Advocates and TURN offer a variety of critiques of the methodology SoCalGas used
4 to develop its proposed gas customer forecasts for use in this TY 2024 GRC. Additionally,
5 based on these critiques, Cal Advocates and TURN propose an alternative forecast methodology
6 that produces lower customer forecasts for SoCalGas. SoCalGas's rebuttal to the critiques is set
7 forth in this section of this testimony. In Section IV, SoCalGas then demonstrates that the
8 alternative methodology proposed by Cal Advocates and TURN is unreasonable and should be
9 rejected. Before proceeding to the substance of the arguments, however, it is important to note
10 that while Cal Advocates and TURN both challenge SoCalGas's methodology for Single-Family
11 and Multi-Family customer forecasts and propose an alternative methodology, they do not
12 criticize SoCalGas for using the same methodology or propose to use their alternative
13 methodologies to forecast Commercial customers, which similarly incorporate economic vendor
14 forecasts. It thus appears that the Cal Advocates and TURN posture of selectively challenging
15 SoCalGas's forecasts is results-oriented given the nominal growth SoCalGas forecasted for the
16 non-residential customer classes.

17 **A. SoCalGas's Reliance On Economic Vendor Forecast Data is Reasonable**

18 Cal Advocates and TURN take issue with SoCalGas's customer forecast methodology,
19 including the use of economic vendor forecasts.

20 Both Cal Advocates and TURN cite a history of alleged consistent over-forecasting of
21 housing-related data by S&P Global (formerly known as both Global Insight and IHS Global) in
22 past GRC applications as the basis for rejecting SoCalGas's 2024 GRC customer forecast. As
23 discussed below, the entirety of their factual support for this assertion is a flawed analysis that
24 purports to calculate the magnitude of the alleged consistent over forecasting. Therefore, for
25 various reasons, SoCalGas does not agree with Cal Advocates and TURN's rejection of
26 economic vendor forecasts.

27 First, intervenors use stale forecasting data for 2020 and 2021 that was included in
28 SoCalGas's TY 2019 GRC workpapers. Using this data in the way Cal Advocates and TURN do
29 is inappropriate because the data prepared for 2020 and 2021 had not taken into account COVID-
30 19 related shocks to the economy that would occur years after the relevant workpapers were
31 prepared. Specifically, the Cal Advocates and TURN analyses of economic vendor forecast

1 variance for 2020 to 2022 rely on data provided in the 2019 GRC Customer Forecast workpaper
2 (Ex. SCG-39-WP, TY 2019 GRC), which was prepared in 2017.⁹ SoCalGas did not formally
3 sponsor a customer forecast beyond 2019 in its TY 2019 GRC application, notwithstanding the
4 fact that 2020 and 2021 forecast data were included in workpapers. SoCalGas provided 2020
5 and 2021 forecast data in the TY 2019 GRC workpapers because it had that information from its
6 2018 California Gas Report (CGR).

7 In 2017, when SoCalGas prepared the customer forecast for the 2019 GRC and 2018
8 CGR, the economic vendor forecasts upon which SoCalGas relied did not reflect the fact that a
9 worldwide pandemic would occur in 2020 that would trigger a brief but sharp recession and that
10 these historic events would have lingering impacts in housing-related industries for the following
11 years. Housing developers delayed planned construction during the pandemic amid economic
12 uncertainty. It is unreasonable to take economic vendor forecasts prepared in 2017 for 2020 and
13 2021 as the basis for measuring economic vendor forecast variance for the 2020-2021 COVID-
14 19-impacted period.

15 In addition, TURN and Cal Advocates' analyses are flawed because they failed to
16 consider that in 2020, SoCalGas's GRC cycle was extended from three to four years with two
17 attrition years added to its TY 2019 GRC cycle.¹⁰ As a result, SoCal Gas submitted its TY 2024
18 GRC application in 2022 instead of submitting in 2020 a GRC application for a 2022 test year.
19 Between its 2019 and 2024 GRC applications, however, SoCalGas updated its customer forecast
20 for the 2020 California Gas Report and in fact used more recent economic vendor forecasts of
21 housing starts that were available at the time. The fact that the analyses by TURN and Cal
22 Advocates purporting to show over-forecasting by the economic vendor forecasts did not
23 calculate variances using forecasts of housing starts for 2020 to 2022 from the 2020 CGR and
24 instead used the forecasts from the 2019 GRC workpaper renders the results of their analyses
25 biased and unreliable.

26 Table EM-3 presents forecasted and actual housing starts from 2014 to 2022 and the
27 variance from actual values using published and submitted data from the 2016 GRC, 2019 GRC,
28 2020 CGR, and the 2024 CGR. As demonstrated in Table EM-3, Cal Advocates and TURN's

⁹ Ex. CA-18-E (Sierra) at 6-8, and Ex. TURN-14 (McGovern) at 15-18.

¹⁰ D. 20-01-002 at 3.

1 use of outdated forecasts as their starting point yields an inflated picture of the true variance of
 2 the economic vendor forecasts. As shown in Table EM-3, the variance for the 2020 through
 3 2022 period has in fact decreased since the 2014 to 2019 period. Thus, both intervenors
 4 overstate the variance between both periods, by more than threefold.¹¹ Cal Advocates calculates
 5 single-family starts forecast variance of 26% for both 2020 and 2021 and multi-family starts
 6 forecast variance of 77% in 2020 and 38% in 2021. Using the more recent economic vendor
 7 forecasts used by SoCalGas for its 2020 CGR, the variance plummets to 7% and 6% for single-
 8 family starts in 2020 and 2021 respectively and to -19% and 10% for multi-family starts in 2020
 9 and 2021, respectively.¹² Contrary to the inflated variances shown by Cal Advocates and TURN,
 10 by using accurate data (rather than stale data) as depicted in Table EM-3, it is clear that the
 11 forecasts by economic vendors for the 2020-2022 period have proven to be remarkably close to
 12 actuals. This track record is particularly noteworthy given impacts from the COVID-19
 13 pandemic.

14 **TABLE EM-3¹³**
 15 **HOUSING STARTS FORECAST**

Period	Single			Multi			Total		
	Forecast	Actual	Variance	Forecast	Actual	Variance	Forecast	Actual	Variance
2014	27,696	23,624	17%	22,547	19,977	13%	27,696	23,624	17%
2015	42,514	24,752	72%	28,595	26,605	7%	42,514	24,752	72%
2016	54,489	26,897	103%	31,673	22,709	39%	54,489	26,897	103%
2017	35,167	31,403	12%	23,822	21,174	13%	58,989	52,577	12%
2018	39,355	31,863	24%	27,074	21,057	29%	66,429	52,920	26%
2019	42,405	29,911	42%	29,332	20,955	40%	71,737	50,866	41%

¹¹ Ex. CA-18-E (Sierra) at 6-8, and Ex. TURN-14 (McGovern) at 15-18.

¹² Cal Advocates appears to have summed up all four quarters of housing starts data for each year to calculate an annual figure its testimony (Ex. CA-18-E (Sierra) at 7-8). SoCalGas notes that actual and forecasted housing starts presented in its 2024 GRC Customer Forecast workpaper (Ex. SCG-35-WP) are seasonally adjusted annual rates (SAAR). To convert from quarterly SAAR to an annual figure, SDG&E averages the four quarters for each year. SoCalGas was able to replicate Cal Advocates' variance calculations on page 7 and 8 of its workpaper using the annual average methodology. Table EM-3 was calculated using SoCalGas's annual average methodology.

¹³ In preparing Rebuttal Testimony, SoCalGas discovered that it had submitted revised TY 2016 workpapers and direct testimony for the Gas Customer Forecast witness area (Ex. SCG-30 in its TY 2016 GRC proceeding). SoCalGas has supplemented its response to TURN-SEU-025, which asked questions regarding TY 2016 workpapers for Gas Customer Forecast. See the revised TY 2016 GRC direct testimony and revised TY 2016 GRC workpapers for Gas Customer Forecast, attached as Appendix B.

Period	Single			Multi			Total		
	Forecast	Actual	Variance	Forecast	Actual	Variance	Forecast	Actual	Variance
2020	34,131	34,757	-2%	22,065	17,575	26%	56,196	52,331	7%
2021	37,938	35,416	7%	19,312	23,850	-19%	57,250	59,266	-3%
2022	36,553	34,486	6%	24,576	22,293	10%	61,129	56,778	8%

Table EM-3 Note: 2014-2016 forecasts are from 2016 GRC, 2017-2019 forecasts are from 2019 GRC, 2020-2021 forecasts are from 2020 CGR, and 2022 forecast is from 2024 GRC

B. Contrary to Cal Advocates and TURN’s Critiques, SoCalGas Customer Forecasts Are Not Biased or Flawed

Both Cal Advocates and TURN extend their critique of SoCalGas’s customer forecast by asserting that supposedly flawed economic vendor forecasts result in SoCalGas producing inaccurate customer growth forecasts. For the reasons discussed below, SoCalGas does not agree with Cal Advocates and TURN’s contentions that the utility’s customer growth forecasts are inflated.

Cal Advocates and TURN’s critique of SoCalGas’s results that relied on economic vendor forecasts is flawed for the same reason as their critiques of the economic vendor forecasts themselves. Simply put, Cal Advocates and TURN rely on outdated residential customer forecasts for 2020 and 2021 to criticize the historic accuracy of SoCalGas’s customer forecasts. As outlined in detail above, SoCalGas updated its customer forecasts for 2020 and 2021 for the 2020 California Gas Report. The variance between forecasted and actual residential customers for 2020 and 2021 is markedly lower both from the 2014 to 2019 period and from the outdated forecast for those two years that both intervenors rely upon for their critiques. Table EM-4 below reflects variances for both connected residential single-family and multi-family customers for 2020 and 2021 well below Cal Advocates’ numbers in their testimony, and in some cases with the delta of greater than 50 percent.¹⁴ In other words, it is Cal Advocates’ calculation of the variances that is vastly overstated.

**TABLE EM-4
CONNECTED CUSTOMERS (METERS) FORECAST**

Period	Single Family			Multifamily		
	Forecast	Actual	Variance	Forecast	Actual	Variance
2014	3,699,956	3,697,453	2,503	1,846,266	1,842,924	3,342
2015	3,719,754	3,714,070	5,684	1,866,690	1,855,988	10,702
2016	3,741,724	3,731,022	10,702	1,893,096	1,869,233	23,863

¹⁴ Ex. CA-18-E (Sierra) at 10.

Period	Single Family			Multifamily		
	Forecast	Actual	Variance	Forecast	Actual	Variance
2017	3,752,578	3,751,864	714	1,883,831	1,879,668	4,163
2018	3,777,135	3,775,415	1,720	1,903,426	1,889,285	14,141
2019	3,803,871	3,797,955	5,916	1,924,196	1,900,271	23,925
2020	3,817,094	3,820,836	-3,742	1,911,187	1,912,460	-1,273
2021	3,839,584	3,844,078	-4,494	1,927,089	1,924,441	2,648
2022	3,868,804	3,867,482	1,322	1,939,204	1,935,179	4,025

Table EM-4 Note: 2014-2016 forecasts are from 2016 GRC, 2017-2019 forecasts are from 2019 GRC, 2020-2021 forecasts are from 2020 CGR, and 2022 forecast is from 2024 GRC

Additionally, both Cal Advocates and TURN omit from their critiques the variance between forecasted and actual active customers since the 2016 GRC. This is a significant omission on the part of Cal Advocates and TURN. Active customer forecast variance is much smaller than the variance for connected meters, reflecting nearly consistent *under-forecasting* since 2017 as demonstrated in Table EM-5 below. This trend of under-forecasting of active customers belies both intervenors' thesis that supposedly inflated economic vendor forecasts results in chronically inflated customer forecasts. The reality is quite the opposite of what they assert.

**TABLE EM-5
ACTIVE CUSTOMERS (METERS) FORECAST**

Period	Single Family			Multifamily		
	Forecast	Actual	Variance	Forecast	Actual	Variance
2014	3,626,418	3,632,535	-6,117	1,752,150	1,759,125	-6,975
2015	3,645,823	3,647,531	-1,708	1,771,533	1,773,721	-2,188
2016	3,667,357	3,666,098	1,259	1,796,593	1,788,972	7,621
2017	3,686,385	3,693,882	-7,497	1,799,637	1,803,793	-4,156
2018	3,710,509	3,718,317	-7,808	1,818,357	1,813,016	5,341
2019	3,736,774	3,742,106	-5,332	1,838,199	1,824,603	13,596
2020	3,762,162	3,769,495	-7,333	1,833,065	1,832,425	640
2021	3,781,004	3,790,736	-9,732	1,846,930	1,839,450	7,480
2022	3,814,617	3,812,839	1,778	1,857,865	1,858,669	-804

Table EM-5 Note: 2014-2016 forecasts are from 2016 GRC, 2017-2019 forecasts are from 2019 GRC, 2020-2021 forecasts are from 2020 CGR, and 2022 forecast is from 2024 GRC

VI. REBUTTAL TO PARTIES' ALTERNATIVE FORECAST METHODOLOGY

To replace SoCalGas's supposedly flawed customer forecasts, Cal Advocates and TURN both call for the use of a moving ten-year average as the basis to forecast SoCalGas customer additions through the 2024 test year, instead of relying on an econometric model using

1 explanatory variables (*i.e.*, housing starts). Cal Advocates then argues to discount the resulting
2 figures by 50% as of July 2023, and TURN argues to discount the resulting figures by 50% in
3 2024. These proposals are unreasonable and should be rejected.

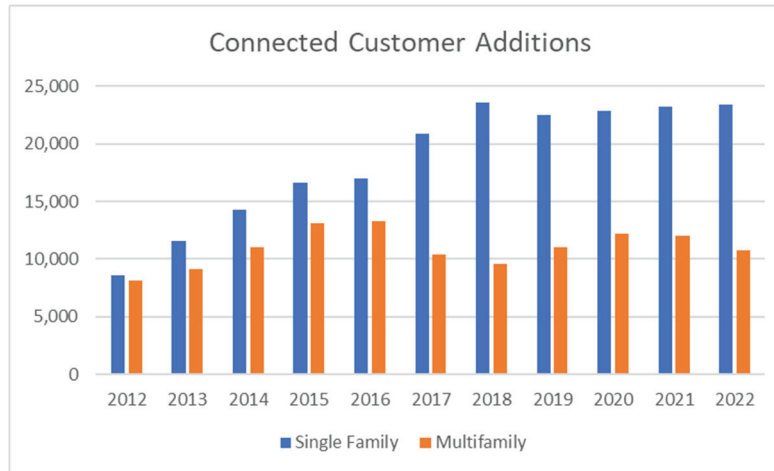
4 **A. Cal Advocates and TURN’s Proposed Ten-Year Average Introduces Bias**
5 **Into the Forecasting Process**

6 Both Cal Advocates and TURN propose to use a moving ten-year average of residential
7 customers in lieu of forecasts based on statistical relationships between customers and
8 explanatory variables such as housing forecasts. SoCalGas does not agree with this drastic
9 change in forecasting methodology for two fundamental reasons.

10 First, Cal Advocates and TURN’s use of ten-year averages for their proposed forecasts
11 biases their forecasts downward by relying on periods coming out of the 2007-2009 recession
12 when housing activity and customer additions were especially weak for single family housing
13 construction. The oversupply of housing that marked the years following the housing crash of
14 2007-2009, with impacts that persisted in the moving averages through most of the ten-year
15 period specified by intervenors, largely dissipated by the end of the decade as builders increased
16 activity. Cal Advocates and TURN’s selection of a ten-year average unreasonably includes an
17 exceptionally weak period for homebuilding and customer activity at the beginning of the
18 previous decade to decrease growth forecasts for the future period governed by this proceeding.
19 The weak homebuilding and customer activity reflected in Cal Advocates and TURN’s selected
20 forecasts reflect conditions that no longer exist, as shown in Charts EM-1 and EM-2. Indeed, as
21 these charts show, for the largest category—Connected and Active single-family residential—
22 within the ten-year window, SoCalGas’s customer additions have been consistently higher since
23 2017 than they were 2012-2016. Thus, not only do Cal Advocates and TURN’s ten-year rolling
24 average approaches include a significant carry-forward of lingering effects of the housing crash,
25 but it also discounts the more recent period of relatively robust growth that have not yet had time
26 to work through because of the way rolling averages by their nature work.

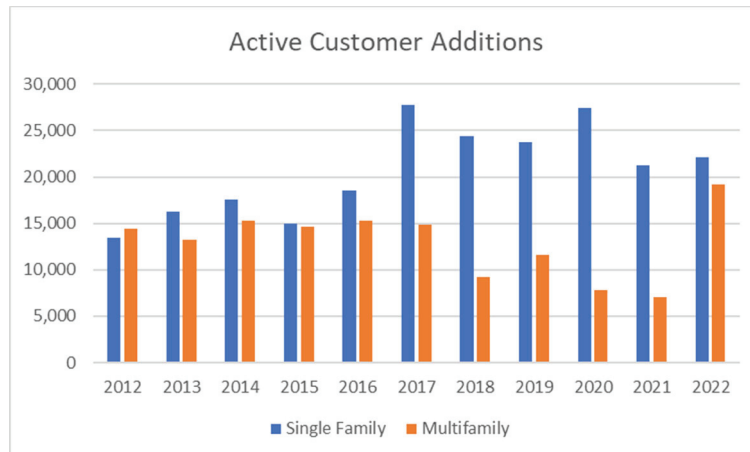
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**CHART EM-1
CONNECTED CUSTOMER ADDITIONS**



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**CHART EM-2
ACTIVE CUSTOMER ADDITIONS**



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Secondly, Cal Advocates and TURN’s use of a ten-year average discounts demographic drivers that are the underpinning of housing demand, which continues to drive customer additions. A skewed ten-year average will not adequately reflect drivers, like the largest age cohort of Millennials approaching and reaching the peak of demand for first-time home purchases.¹⁵

Finally, SoCalGas notes that the Cal Advocates and TURN proposals are selective and appear to be results-oriented in that they would only apply to residential customer growth, while

¹⁵ “Millennial Homebuyers’ Share Continues to Rise in 2022 (December 28, 2022),” attached as Appendix D at EJM-D-2.

1 they accept SoCalGas’s forecasts for non-residential customer classes. In contrast to SoCalGas’s
2 residential forecasts, SoCalGas’s non-residential forecasts in this TY 2024 GRC are
3 comparatively flat.

4 For all of the above reasons, Cal Advocates and TURN’s ten-year rolling average
5 approach is unreasonable and should not be adopted.

6 **B. There is No Basis for Cal Advocates and TURN’s 50 Percent Reduction to**
7 **the 2023 and 2024 Forecasts.**

8 Not content with overvaluing periods of housing distress and undervaluing recent growth,
9 Cal Advocates and TURN further propose to cut the resulting values to account for a policy
10 change, the impact of which remains uncertain. Specifically, Cal Advocates recommends that
11 SoCalGas’s Residential Single Family and Multi-Family forecasts, should be discounted by 50%
12 as of July 2023 to account for the Commission’s D.22-09-026 to disallow gas line extensions’
13 allowances, refunds, and discounts.¹⁶ TURN argues that SoCalGas’s 2024 GRC customer
14 forecast should be discounted by 50% in 2024, citing D.22-09-026 and also claiming that local
15 ordinances calling for new residential buildings to be “all-electric” in the future. TURN states,
16 “[r]ecently, at least ten cities within the service territory of SCG and SDG&E and Los Angeles
17 and Ventura counties have decided to ban new gas construction and to require all-electric ready
18 infrastructure for new homes.”¹⁷

19 Cal Advocates and TURN’s proposals should be rejected. For one thing, both TURN and
20 Cal Advocates’ proposals fail to account that an unknowable at present share of housing units
21 that will start construction in those two years will have permits prior to the CPUC decision
22 disallowing gas line extensions’ allowances, refunds, and discounts (D. 22-09-026) going into
23 effect in July 2023. In addition, it is possible that home builders may choose to cover the cost of
24 gas line extensions to accommodate demand for gas appliances, as evidenced by consumers’
25 preference for gas appliances for cooking.¹⁸ Whatever effects the policies cited by Cal

¹⁶ Ex. CA-18-E (Sierra) at 11-12.

¹⁷ Ex. TURN-14 (McGovern) at 20.

¹⁸ Natural Gas in New Homes (A Survey of Single-family Home Builders) (September 2021), attached as Appendix C at EJM-C-27 to EJM-C-28. *See also*, Energy Institute Blog, UC Berkeley, Three Facts about Electric Heating in California (May 8, 2023) available at <https://energyathaas.wordpress.com/2023/05/08/three-facts-about-electric-heating-in-california/>.

1 Advocates and TURN may have are uncertain at this time. Applying a discount to future growth
2 forecasts based on speculation as to the impacts of future policies is unreasonable.

3 Beyond the question of whether any discount should be applied based on theorized future
4 impacts of policies, SoCalGas also notes that neither of these testimonies presented any analysis
5 whatsoever regarding how they determined the level of the discount they chose to apply—50%
6 —let alone why that discount level might be appropriate in their view. Simply put, the proposed
7 50% is arbitrary, without any support, and unreasonable. Therefore, a blanket and unsupported
8 50% reduction to the gas customer forecast in 2023 and 2024 should be rejected.

9 **VII. REBUTTAL AS TO OTHER ISSUES**

10 **A. TURN’s Proposed Balancing Account is Unexplained, Unreasonable, and** 11 **Should be Rejected**

12 TURN calls for a one-way balancing account ostensibly to protect customers in the case
13 of unrealized customer counts.¹⁹ TURN’s entire support for this proposal consists of two
14 sentences in its testimony and is void of any explanation, “[f]or the gas customer forecasts,
15 TURN recommends a one-way balancing account to protect customers from the uniquely
16 unfamiliar circumstances and timing of this GRC and the changes in gas policy.”²⁰ Then in the
17 conclusion, TURN states:

18 Finally, TURN, in recognition of the large amount of change in the underlying
19 fundamentals of the residential gas market, recommends that the Commission
20 establish a one-way balancing account to refund residential customers any cost
21 savings that are generated by unrealized customer count.²¹

22 SoCalGas opposes TURN’s balancing account proposal. For one thing, a one-way
23 balancing account is unreasonable and administratively burdensome. It would be difficult, if not
24 impossible, to try to quantify total company cost savings or increases due to actual changes in
25 customer count. Further, TURN provides zero explanation as to what would be recorded to this
26 proposed one-way balancing account or how such an account would function. The one-way
27 aspect of this proposal is particularly troubling, as it would effectively penalize the utility for
28 customer growth that exceeds the utility’s forecasts. Thus, the Commission should reject

¹⁹ Ex. TURN-14 (McGovern) at 4.

²⁰ *Id.*

²¹ *Id.* at 29.

1 TURN's proposal for a one-way balancing account not only for its lack of support but, more
2 fundamentally, because it is unworkable and unreasonable.

3 **B. SoCalGas's Use of Econometric Software is Reasonable.**

4 The testimonies of Cal Advocates and TURN criticize SoCalGas's use of a specific
5 forecasting software package and make various claims regarding model access.²² Neither of
6 these contentions detract from the reasonableness of SoCalGas's forecasts.

7 With respect to the software package issue, SoCalGas used AREMOS/32 Large Bank
8 Version econometric package to prepare its 2024 GRC customer forecasts. The AREMOS
9 software is no longer commercially available and, as such, SoCalGas understands that Cal
10 Advocates and TURN may not have independent access to it. But as a third-party developed
11 software package, SoCalGas does not believe that it has authority to provide Cal Advocates and
12 TURN with a copy for their own use. Because of this, SoCalGas demonstrated the software's
13 use and performed model runs using updated or alternative forecast scenarios as requested by Cal
14 Advocates and TURN in response to the following data requests: PAO-SCG-117, questions 1a,
15 2a, 3a; TURN-SEU-038, questions 1a-1b; and TURN-SEU-040, questions 18-19.

16 SoCalGas is open to exploring the use of alternative software packages in the future, but
17 SoCalGas believes that we provided intervenors with reasonable cooperation and data through
18 the discovery process. As far as SoCalGas is aware, the Commission has not prescribed that
19 utilities must use any particular software package or methodology; but in past cases, it has
20 approved forecasts that, as here, were developed using the AREMOS software using a
21 methodology consistent with the approach used here by SoCalGas.

22 Additionally, SoCalGas believes it is important to point out that neither Cal Advocates
23 nor TURN suggest that the calculations actually performed by the software itself are anything
24 other than accurate based on the source data and instructions. Old or not, the software worked
25 and it produced forecasts that, as demonstrated above, are reasonable and should be adopted.
26 Thus, any implication or attempt to undermine the reasonableness of SoCalGas's forecasts based
27 on the software should be rejected.

²² Ex. CA-18-E (Sierra) at 4-6, and Ex. TURN-14 at 27-28.

1 **C. Use of Add-Factor is Consistent With Modeling Practices**

2 Cal Advocates takes issues with SoCalGas’s use of add-factors, describing this practice
3 as arbitrarily adding or subtracting values to the customer forecast. SoCalGas rejects Cal
4 Advocates’ description of its add-factors. Use of add-factors based on the observed variance
5 between forecasted and actual values is not unprecedented in econometric modeling like
6 SoCalGas’s customer forecast model. In fact, the Commission has approved SoCalGas’s use of
7 add factors in prior GRCs.

8 **D. Other Items Discussed by Cal Advocates and TURN**

9 SoCalGas notes that it is open to exploring measures to refine its customer forecasts in
10 the future. Examples of such measures could possibly include adjusting the number of
11 observations used to calculate forecast equations, experimenting with alternative explanatory
12 economic variables, averaging of different economic vendor forecasts, and incorporating
13 economic vendors’ more conservative forecast scenarios. In addition, SoCalGas is open to
14 exploring the feasibility of using housing completions instead of housing starts and Excel instead
15 of AREMOS in future GRCs.

16 **VIII. CONCLUSION**

17 As discussed above, the Commission should find SoCalGas’s forecasts and requests to be
18 reasonable and supported by the following analysis:

- 19 1. Economic vendor forecast variance has been declining, particularly when the
20 vendor forecast used for the 2020 California Gas Report are taken into
21 consideration rather than outdated forecasts prepared prior to the COVID-19
22 pandemic.
- 23 2. Variances in SoCalGas’s connected customer forecast has fallen in recent years;
24 its active customer forecast, more often than not, under-forecasts residential
25 additions.
- 26 3. A ten-year rolling average of customer additions would include several years
27 following the 2007-2009 recession and housing crash when an oversupply of
28 housing weighed down on housing starts and customer additions, which would
29 lead to an artificially suppressed forecast, and would fail to account for drivers
30 like strong Millennial demand for housing.

1 4. A sizable amount of new residential construction will not fall under the CPUC's
2 disallowance of gas line extensions' allowances, refunds, and discounts that will
3 go into effect in July 2023, thus making the proposed 50% discounts of
4 SoCalGas's residential customer additions inappropriate.

5 5. For more than two decades, SoCalGas has experienced both simultaneously
6 downward trending gas usage and increasing customer counts under the state's
7 aggressive energy efficiency policies. Any impacts of recent and yet-to-be-fully
8 implemented policies or regulations are speculative and SoCalGas believes will
9 likely not result in declining or flat customer addition growth by 2024.

10 Therefore, the Commission should adopt SoCalGas's gas meter forecasts without
11 revision.

12 This concludes my prepared rebuttal testimony.

1 **IX. WITNESS QUALIFICATIONS**

2 My name is Eduardo J. Martinez. I assumed sponsorship of this area from Scott Wilder.
3 My business address is 555 West 5th Street, Los Angeles CA 90013. My title is Gas Demand
4 Forecast Manager. I work in the Gas Regulatory Affairs Department for Southern California
5 Gas Company (SoCalGas) and San Diego Gas & Electric Company (SDG&E). I joined
6 SoCalGas in August 2022. Prior to assuming my current position, I was the Senior Load
7 Forecaster for Southern California Edison Company (SCE) from 2014 to 2022 and a Senior
8 Economist for Moody's Analytics from 2008 to 2014. Additional economist positions include
9 Los Angeles County Economic Development Corporation (LAEDC) from 2006 to 2008, U.S.
10 State Department from 2002 to 2006, and the Bureau of Labor Statistics from 1999 to 2002. I
11 am a current member of the national and Los Angeles chapters of the National Association for
12 Business Economics (NABE).

13 I received my Bachelor of Arts in International Business from California State University
14 Fullerton and my Masters of Arts in Economics from California State University Long Beach.

15 I have not previously testified before the Commission.

APPENDIX A

GLOSSARY OF TERMS

ACRONYM	DEFINITION
Cal Advocates	Public Advocates Office of the California Public Utilities Commission
CARB	California Air Resources Board
CGR	California Gas Report
Commission	California Public Utilities Commission
EDF	Environmental Defense Fund
GRC	General Rate Case
SBUA	Small Business Utility Association
SDG&E	San Diego Gas & Electric Company

APPENDIX B

- Revised Testimony of Rose-Marie Payan for the SoCalGas Gas Customer Forecast witness area (Ex. SCG-30-R) in the TY 2016 GRC proceeding
- Revised TY 2016 workpapers of Rose-Marie Payan for the SoCalGas Gas Customer Forecast witness area in the TY 2016 GRC proceeding

Company: Southern California Gas Company (U904G)
Proceeding: 2016 General Rate Case
Application: A.14-11-004
Exhibit: SCG-230-R

REVISED
SOCALGAS
REBUTTAL TESTIMONY OF ROSE-MARIE PAYAN
(CUSTOMERS)

July 2015

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



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1 from the time of the discovery of the request. Attachment B is SoCalGas' April 17, 2015
2 response to TURN data request 8, question 7, informing TURN of the error and the effects of the
3 correction. SoCalGas has not corrected its cost forecasts in downstream witness testimony and
4 has not sought to increase its revenue requirement based on this change. Correcting the error in
5 downstream witness testimony would have increased cost forecasts in the following areas: Gas
6 Distribution (Frank Ayala, SCG-04-R), Customer Services Field and Meter Reading (Sara
7 Franke, SCG-10), and Customer Services Office Operations (SCG-11). Thus, the incorrect
8 forecast reflected in my direct testimony and workpapers also continue to be reflected in the
9 above-mentioned SoCalGas' cost forecasts and testimony, and my direct testimony chapters
10 (SCG-30 and SCG-30-WP) have not been revised to reflect the correction. However, the
11 corrected customer forecast information shown in Attachment A is reflected in this rebuttal
12 testimony and should be reflected in ORA's forecast, discussed below.

13 **III. ORA**

14 **A. Forecast-To-Actuals Comparison Shows SoCalGas Has A Superior Forecast** 15 **Than ORA**

16 ORA and SoCalGas have each submitted forecasts for gas customers for 2014, 2015 and
17 TY 2016. ORA's and SoCalGas' results are very close and similar in methodology. In fact,
18 ORA's and SoCalGas' gas customer forecasts differ by less than one percent. However,
19 SoCalGas' forecast is coming in closer than ORA's forecast to the actuals for 2014 and first
20 quarter 2015.

1

TABLE 1²

2014 Forecasts	<u>Single Family</u>	Single Family Variance From <u>Actual</u>	<u>Multi Family</u>	Multi Family Variance From <u>Actual</u>
SoCalGas	3,626,418	Approximately 6,000 below actual	1,752,150	Approximately 7,000 below actual
ORA	3,624,369	Approximately 8,000 below actual	1,748,672	Approximately 10,000 below actual
Actual	3,632,536	0	1,759,124	0

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SoCalGas maintains that its forecast of gas customers is a fair, reasonable, and conservative forecast. In comparing ORA’s 2014 forecast of gas customers with the 2014 actual recorded gas customers, it appears that ORA’s forecast is too low. For 2014, ORA forecasted *total* gas customers to be 5,620,518. SoCalGas’ forecast for 2014 is 5,626,305. The actual 2014 recorded total customers for SoCalGas is 5,638,631. ORA’s forecast is over 18,000 meters under forecast.

In examining the recorded data that has come in for the year 2014, *residential* new meters have been outpacing both ORA’s and SoCalGas’ forecast. Compared to 2014 actuals and the recorded data for the first quarter of 2015, both SoCalGas’ and ORA’s residential customer forecast are too low. For 2014, SoCalGas’ single family forecast is 6,000 meters lower than actual. For 2014, ORA’s single family forecast is 8,000 customers lower than actual.

The discrepancy grows larger when examining the activity in multi-family observed growth. For 2014, SoCalGas’ multi-family forecast is about 7,000 meters lower than actual; whereas, ORA’s 2014 multi-family forecast is 10,000 meters lower than actual. ORA’s multi-family forecast is lower and slower growing than SoCalGas’ forecast. It is lower by approximately 3,500 meters in 2014 and the gap widens to a 20,000 deficiency by test year 2016. Given the large and apparently growing amount by which multi-family actuals are outpacing ORA’s forecast, SoCalGas believes that ORA’s multi-family forecast is much too low.

² Forecast data from ORA-3/Renaghan, p. 6, Table 3-2.

1 The recorded data for the first quarter of 2015 also support SoCalGas' belief that ORA's
2 forecast is too low. For the first quarter of 2015, the actual single family active meters were over
3 7,000 higher than ORA's forecast for the same period. Additionally, for the first quarter of 2015,
4 actual multi-family active meters came in over 12,000 higher than ORA's forecast. SoCalGas'
5 forecast was also below actuals, but not by as much. For the first quarter of 2015, SoCalGas'
6 single family active meter forecast was 4,270 meters below actual. For the same period,
7 SoCalGas' multi-family active meter forecast was 5,063 below the first quarter of 2015 actuals.

8 **B. ORA Omitted A Very Significant Regressor In Their Multi-Family Model**

9 ORA's multi-family residential gas customer model regresses the historic first-difference
10 of connected residential gas meters on multi-family residential housing starts in SoCalGas'
11 service area lagged four quarters and a dummy variable for the third quarter of 1996.³
12 SoCalGas' approach was similar with one exception: SoCalGas regressed the first difference of
13 residential multi-family customers on multi-family housing starts lagged four *and* eight quarters.
14 Because of the length of construction time required to build a multi-family structure, SoCalGas
15 believes it is important to include an eight quarter multi-family housing start lag. The estimation
16 results reveal that the eight-quarter lag is highly significant and statistically relevant.

17 The omission of a very significant explanatory variable in ORA's multi-family
18 specification is problematic because it leads to bias in the estimates. In such a case, the omission
19 can cause the forecast to be too low and the estimates of the included variables will be biased and
20 unreliable.

21 **C. ORA Is Recommending A New Meter Set Forecast That Is Significantly**
22 **Below Recorded Levels**

Meter Sets	2014	Variance to 2014 Actual
SoCalGas Forecast	36,912	4,454
ORA Forecast	27,014	(5,444)
2014 Actual	32,458	0

23 ORA's 2014 new meter set forecast is 20% below actual meter sets recorded for 2014.
24 SoCalGas' forecast is shown to be more accurate, fair, and reasonable, and should be adopted.

³ ORA-3 (Renaghan), p. 20, lines 3-7.

1 **IV. CONCLUSION**

2 ORA and SoCalGas forecast gas customers for 2014, 2015 and Test Year 2016. For the
3 most part, ORA's and SoCalGas' results are close. SoCalGas has some areas of concern
4 regarding the key differences in the forecasts.

5 First, although both SoCalGas' and ORA's forecast are under-forecasted relative to the
6 2014 actuals, ORA's forecast is further away from the observed recorded gas meter totals for
7 2014. Also, the biggest difference in the forecast numbers stems from the regression
8 methodology that supports the multi-family, residential forecasts.

9 SoCalGas has reason to believe that ORA used a mis-specified regression equation and
10 omitted a highly significant and highly relevant economic driver. A longer lag for housing starts
11 is an important driver of multi-family customers because it takes longer to build a multi family
12 structure than the time required to build a single family home. ORA's forecast of multi-family
13 structures is much lower and slower growing than what SoCalGas forecast. Following the
14 collapse of the housing market and the subsequent recovery, the trend in housing has been one
15 where more and more individuals have given up life in single family homes and have opted to
16 live in more affordable multi-family dwellings. The boom in multi-family housing is apparent in
17 the new construction that has emerged since the last GRC, and the data trend, including that for
18 the first quarter of 2015, support this. SoCalGas also under-forecasted the huge growth in the
19 activity in this residential segment.

20 Finally, ORA's forecast of new meter sets appears to be low in comparison to the 2014
21 actuals. SoCalGas maintains that its forecast of gas customers is a fair, reasonable and
22 conservative forecast. For this reason and the others stated above, SoCalGas' gas customer
23 forecasts should be adopted.

24 This concludes my prepared rebuttal testimony.

SDG&E 2016 GRC Testimony Revision Log – July 2015

Exhibit	Witness	Page	Line	Revision Detail
SDG&E-230-R	Rose Marie Payan	Cover	N/A	Changed “SDG&E-230” to “SDG&E-230-R”
SDG&E-230-R	Rose Marie Payan	Cover	N/A	Added “Revised”
SDG&E-230-R	Rose Marie Payan	Cover	N/A	Changed “June 2015” to “July 2015”
SDG&E-230-R	Rose Marie Payan	RMP-i	N/A	Added “Attachment A” and “Attachment B”
SDG&E-01-R	Rose Marie Payan	RMP-1 RMP-2	18-28 1-12	Added the following language:

Additionally, my rebuttal testimony corrects an error found while in the process of responding to data requests on the customer forecast presented in my direct testimony and workpapers for SoCalGas (SCG-30 and SCG-30-WP). Specifically, my direct testimony workpapers incorrectly labeled IHS Global Insight data for SoCalGas single family and multi-family housing starts, such that the single family housing start data series incorrectly contained the values for the multi-family housing start data series and vice versa. The information in my direct testimony is based on the incorrect workpapers. The error did not affect the San Diego Gas and Electric (“SDG&E”) customer forecasts.

Attachment A to this testimony reflects SoCalGas’ new estimates and forecast for the residential sector based on the correction to the data. This corrected information was timely provided to ORA and TURN and was used in developing SoCalGas’ responses to data requests from the time of the discovery of the request. Attachment B is SoCalGas’ April 17, 2015 response to TURN data request 8, question 7, informing TURN of the error and the effects of the correction. SoCalGas has not corrected its cost forecasts in downstream witness testimony and has not sought to increase its revenue requirement based on this change. Correcting the error in downstream witness testimony would have increased cost forecasts in the following areas: Gas Distribution (Frank Ayala, SCG-04-R), Customer Services Field and Meter Reading (Sara Franke, SCG-10), and Customer Services Office Operations (SCG-11). Thus, the incorrect forecast reflected in my direct testimony and workpapers also continue to be reflected in the above-mentioned SoCalGas’ cost forecasts and testimony, and my direct testimony chapters (SCG-30 and SCG-30-WP) have not been revised to reflect the correction. However, the corrected customer forecast information shown in Attachment A is reflected in this rebuttal testimony and should be reflected in ORA’s forecast, discussed below.

ATTACHMENT A

WORKPAPERS TO PREPARED DIRECT TESTIMONY OF
ROSE-MARIE PAYAN
(SCG-30-WP)

Application of SOUTHERN CALIFORNIA GAS)
COMPANY for authority to update its gas revenue)
requirement and base rates)
effective January 1, 2016 (U 904-G))

(NOI for) Application No. 14-11-____
Exhibit No.: (SCG-30-WP)

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF ROSE-MARIE PAYAN
ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

APRIL 2015



Southern California Gas Customer/Meter Forecast Models

SoCalGas uses econometric models to produce its customer/meter forecasts. The factor driving the residential market growth is residential housing starts. On the other hand, the commercial and industrial (manufacturing and Mining) customer growth is explained by commercial and industrial employment growth in SoCalGas' service area. The customer growth estimation was performed using the "Proc autoreg" method from Statistical Analysis System (SAS). The historical quarterly data used in the forecast is from 1979Q1 to 2013Q4 period.

Southern California Gas Company: Meter Model

Variable **Definition**

ActCom	Active--All Commercial Meter Counts
ActInd	Active--All Industrial Meter Counts
ActMF	Active--Residential Multi-Family Meter Counts
ActMM	Active--Residential Master-Metered Meter Counts
ActRES	Active--All Residential Meter Counts
ActSF	Active--Residential Single-Family Meter Counts
HSSF	Residential Single Family Housing Starts
HSSFL1	Residential Single Family Housing Starts Lagged 1 Quarter
HSSFL2	Residential Single Family Housing Starts Lagged 2 Quarters
HSSFL3	Residential Single Family Housing Starts Lagged 3 Quarters
HSSFL4	Residential Single Family Housing Starts Lagged 4 Quarters
HSSFL5	Residential Single Family Housing Starts Lagged 5 Quarters
HSSFL6	Residential Single Family Housing Starts Lagged 6 Quarters
HSSFL7	Residential Single Family Housing Starts Lagged 7 Quarters
HSSFL8	Residential Single Family Housing Starts Lagged 8 Quarters
HSMF	Residential Multi Family Housing Starts
HSMFL1	Residential Multi Family Housing Starts Lagged 1 Quarter
HSMFL2	Residential Multi Family Housing Starts Lagged 2 Quarters
HSMFL3	Residential Multi Family Housing Starts Lagged 3 Quarters
HSMFL4	Residential Multi Family Housing Starts Lagged 4 Quarters
HSMFL5	Residential Multi Family Housing Starts Lagged 5 Quarters
HSMFL6	Residential Multi Family Housing Starts Lagged 6 Quarters
HSMFL7	Residential Multi Family Housing Starts Lagged 7 Quarters
HSMFL8	Residential Multi Family Housing Starts Lagged 8 Quarters
ConnCom	Connected--Commercial Meter Counts
ConnInd	Connected--Industrial Meter Counts
ConnMF	Connected--Residential Multi-Family Meter Counts
ConnMM	Connected--Residential Master-Metered Meter Counts
ConnRES	Connected--All Residential Meter Counts
ConnSF	Connected--Residential Single-Family Meter Counts
Dte	Date by quarter of the year
DUM8102	Dummy variable, =1 when dte=198102, =0 otherwise

DUM8601	Dummy variable, =1 when dte=198601, =0 otherwise
DUM9603	Dummy variable, =1 when dte=199603, =0 otherwise
DUM0303	Dummy variable, =1 when dte=200303, =0 otherwise
DUM0503	Dummy variable, =1 when dte=200503, =0 otherwise
DUM8604	Dummy variable, =1 when dte=198604, =0 otherwise
DUM0711	Dummy variable, =1 when 200702<=dte<=201104, =0 otherwise
EmpCom	"Commercial" employment in service area (all nonfarm--less mining and manufacturing)
EmpInd	"Industrial" employment in service area (mining plus manufacturing)
InactCom	Inactive--Commercial Meter Counts
InactIND	Inactive--Industrial Meter Counts
InactMF	Inactive--Residential Multi-Family Meter Counts
InactMM	Inactive--Residential Master-Metered Meter Counts
InactRES	Inactive--All Residential Meter Counts
InactSF	Inactive--Residential Single-Family Meter Counts
NETCG	Net Connected Meter Gain (Newsets+Resets-Removes)
NEWSETS	New Meter Sets
PCTINACTCOM	Proportion of connected commercial meters which are inactive (manually set factor)
PCTINACTIND	Proportion of conneced industrial meters which are inactive (manually set factor)
PCTINACTM	Proportion of connected multi-family meters which are inactive (manually set factor)
PCTINACTS	Proportion of connected single-family meters which are inactive (manually set factor)
REMOVES	Meters Removed
RESETS	Meters Re-set
RESETSSEAS	Meter Re-set Seasonal Pattern
SEA1	Seasonal Dummy - Spring
SEA2	Seasonal Dummy - Summer
SEA3	Seasonal Dummy - Fall
SEA4	Seasonal Dummy - Winter
TOTACT	Total Active Meter Counts
TOTCONN	Total Connected Meter ounts

1) Residential Single Family

a. Connected Meter: ConnSF (1979Q2 to 2013Q4)

$$\begin{aligned}
 \text{Diff (ConnSF)} = & \quad 3255 + 0.0757 * \text{HSSFL1 (t-1)} \\
 & \quad (1.75) \qquad \qquad (5.86) \\
 & + 0.0249 * \text{HSSFL8 (t-8)} - 1494 * \text{SEA2} \\
 & \quad (2.06) \qquad \qquad \qquad (-5.26) \\
 & -807.039 * \text{SEA3} - 7664 * \text{DUM9603} \\
 & \quad (-2.85) \qquad \qquad \qquad (-7.44) \\
 & + 4760 * \text{DUM0503} - 1630 * \text{DUM0711} \\
 & \quad (4.58) \qquad \qquad \qquad (-2.19)
 \end{aligned}$$

* t-value is in the parenthesis.

SSE	176901959	DFE	120
MSE	1474183	Root MSE	1214
Total Rsq	0.9272	Durbin-Watson	2.0011

b. In-Active Meter: InActSF

$$\text{InActSF (Qi)} = \text{ConnSF (Qi)} * \text{PCTInactS(Qi)}$$

Where i =1, 2, 3, and 4

Q1: 1.96%, Q2: 1.96%, Q3: 2.05% and Q4: 1.98%

c. Active Meter: ActSF

$$\text{ActSF} = \text{ConnSF} - \text{InActSF}$$

2) Residential Multi-Family

a. Connected Meter: ConnMF (1979Q1 to 2013Q4)

$$\begin{aligned} \text{Diff (ConnMF)} = & \quad 1888 \quad + 0.0777 * \text{HSMFL4}(t -4) \\ & (1.69) \quad (5.45) \\ & + 0.0585 \text{HSMFL8 (t -8)} + 895.9268 \text{DUM8604} \\ & (4.33) \quad (1.48) \\ & -2919 * \text{DUM9603} \quad - \quad 4576 * \text{DUM0303} \\ & (-3.66) \quad (5.74) \end{aligned}$$

* t-value is in the parenthesis.

SSE	113324782	DFE	123
MSE	921340	Root MSE	959.86
Total Rsq	.9630	Durbin-Watson	2.0305

- b. In-Active Meter: InActMF

$$\text{InActMF}(Q_i) = \text{ConnMF}(Q_i) * \text{PCTInActM}(Q_i)$$

Where $i = 1, 2, 3,$ and 4

Q1: 5.06%, Q2: 4.98%, Q3: 5.27% and Q4: 5.08%

- c. Active Meter: ActMF

$$\text{ActMF} = \text{ConnMF} - \text{InActMF}$$

3) Residential Master Meter

- a. Master Meter: ConnMM

$$\text{ConnMM}(t) = (1-0.0051) * \text{ConnMM}(t-4)$$

- b. Active Meter: ActMM

$$\text{ActMM}(t) = \text{ConnMM}(t) - \text{InActMM}(t)$$

- c. In-Active Meter: InActMM

$$\text{InActMM}(Q_i) = \text{PCTInActMM}(Q_i) * \text{ConnMM}$$

Where $i = 1, 2, 3,$ and 4

Q1=1.63%; Q2= 1.62%; Q3= 1.65%, and Q4= 1.64%

Total Residential Meter

$$\text{ConnRES} = \text{ConnSF} + \text{ConnMF} + \text{ConnMM}$$

$$\text{ActReES} = \text{ActSF} + \text{ActMF} + \text{ActMM}$$

$$\text{InActRES} = \text{InActSF} + \text{InActMF} + \text{InActMM}$$

4) Commercial Meter

a. Connected Meter: ConnCom (1979Q1 to 2013Q4)

$$\begin{aligned} \text{Ln (ConnCom)} = & 10.6874 + 0.1007 * \text{Ln (EmpCom (t -1))} \\ & (25.70) \quad (3.82) \\ & + 0.0831 * \text{Ln (EmpCom (t -2))} + 0.002755 * \text{SEA1dum} \\ & (3.15) \quad (3.57) \\ & + 0.003026 * \text{SEA2dum} + 0.001790 * \text{SEA3dum} \\ & (3.76) \quad (2.70) \end{aligned}$$

*t-value is in the parenthesis.

SSE	0.00085024	DFE	128
MSE	6.6425E-6	Root MSE	0.00258
Rsq	0.9989	Durbin-Watson	1.2998

b. In-Active Meter: InActCom

$$\text{InActCom (Qi)} = \text{ConnCom (Qi)} * \text{PCTInactCom(Qi)}$$

Where i = 1, 2, 3, and 4

Q1: 23.06%, Q2: 23.44%, Q3: 23.86% and Q4: 23.79%

c. Active Meter: ActCom

$$\text{ActCom} = \text{ConnCom} - \text{InActCom}$$

5) Industrial Meter

a. Active Meter: ACTIND (1979Q2 to 2013Q4)

$$\begin{aligned} \text{Ln}(\text{ACTIND}) = & 7.4670 + 0.3796 * \text{Ln}(\text{EmpInd})(t-1) - 0.0173 * \text{SEA3} + \\ & (20.45) \quad (7.45) \quad (-14.99) \\ & - 0.0167 * \text{SEA4} \\ & (-14.60) \end{aligned}$$

*t-value is in the parenthesis.

SSE	.00835232	DFE	133
MSE	0.0000628	Root MSE	0.00792
Total Rsq	0.9975	Durbin-Watson	1.2435

b. In-active Meter: InActInd

$$\text{InActInd}(Q_i) = \text{ACTIND}(Q_i) * \text{PCTInActInd}(Q_i)$$

Where i =1, 2, 3, and 4

Q1: 48.83%, Q2: 49.86%, Q3: 51.02% and Q4: 50.98%

c. CONNECTED Meter: ConnInd

$$\text{ConnInd} = \text{ActInd} + \text{InActInd}$$

6) Aggregated Meter and Meter Gain

Total Connected Meter:

$$\text{TotConn} = \text{ConnRes} + \text{ConnCom} + \text{ConnInd}$$

Total Active Meter:

$$\text{TotAct} = \text{ActRes} + \text{ActCom} + \text{ActInd}$$

Total In-Active Meter:

$$\text{TotInAct} = \text{InActRes} + \text{InActCom} + \text{InActInd}$$

Net Connected Meter Gain:

$$\text{NetCG} = \text{Diff}(\text{TotConn})$$

Meter Removed:

$$\text{ReMoves} = 0.0001 * \text{TotConn}$$

Meter Reset:

$$\text{ReSets} = \text{Removes} + \text{ReSetsSeas}$$

New Meter Sets:

$$\text{NewSets} = \text{NetCG} - \text{ReSets} + \text{Removes}$$

Year	Connected	Connected	Connected	Connected Total	Connected	Connected	Connected	Growth	%Grow
	SF	MF	MM	Tot Res	Com	Ind	Total		
2000	3,216,122	1,674,027	45,607	4,935,755	228,320	28,725	5,192,800	50,710	0.99%
2001	3,265,670	1,678,626	45,223	4,989,519	230,468	28,653	5,248,640	55,840	1.08%
2002	3,318,980	1,684,653	44,899	5,048,532	232,864	28,323	5,309,720	61,079	1.16%
2003	3,372,732	1,695,409	44,524	5,112,666	234,585	28,195	5,375,446	65,726	1.24%
2004	3,429,816	1,710,554	44,160	5,184,529	236,312	28,309	5,449,150	73,704	1.37%
2005	3,492,924	1,720,189	43,802	5,256,916	237,831	28,277	5,523,023	73,873	1.36%
2006	3,555,620	1,734,729	43,337	5,333,686	239,463	28,207	5,601,356	78,333	1.42%
2007	3,600,301	1,755,752	43,040	5,399,093	240,947	28,330	5,668,370	67,014	1.20%
2008	3,625,746	1,776,760	42,699	5,445,205	242,314	28,502	5,716,020	47,651	0.84%
2009	3,640,755	1,793,706	42,414	5,476,875	243,427	28,589	5,748,890	32,870	0.58%
2010	3,653,320	1,807,003	42,186	5,502,509	243,937	28,641	5,775,086	26,196	0.46%
2011	3,662,999	1,814,702	41,945	5,519,646	244,426	28,619	5,792,691	17,605	0.30%
2012	3,671,608	1,822,820	41,729	5,536,157	244,927	28,556	5,809,640	16,949	0.29%
2013	3,683,207	1,831,916	41,549	5,556,673	245,498	28,440	5,830,610	20,971	0.36%
2014	3,699,956	1,846,266	41,337	5,587,559	245,948	28,560	5,862,067	31,456	0.54%
2015	3,719,754	1,866,690	41,126	5,627,571	246,487	28,770	5,902,828	40,761	0.70%
2016	3,741,724	1,893,096	40,917	5,675,737	247,153	28,889	5,951,779	48,951	0.83%
2017	3,764,752	1,926,657	40,708	5,732,116	247,709	28,962	6,008,787	57,008	0.96%
2018	3,788,509	1,964,419	40,500	5,793,429	247,954	29,030	6,070,413	61,625	1.03%
2019	3,812,982	2,002,960	40,294	5,856,235	247,965	29,094	6,133,295	62,882	1.04%
2020	3,837,803	2,041,221	40,088	5,919,112	247,928	29,099	6,196,139	62,844	1.02%
2021	3,862,514	2,079,088	39,884	5,981,486	247,747	29,078	6,258,311	62,172	1.00%
2022	3,887,024	2,116,171	39,681	6,042,876	247,598	29,046	6,319,519	61,209	0.98%
2023	3,911,421	2,152,317	39,478	6,103,216	247,487	29,017	6,379,720	60,201	0.95%
2024	3,935,971	2,187,852	39,277	6,163,100	247,408	28,999	6,439,508	59,788	0.94%
2025	3,961,106	2,222,999	39,076	6,223,181	247,361	28,964	6,499,506	59,998	0.93%
2026	3,986,814	2,258,110	38,877	6,283,801	247,351	28,898	6,560,050	60,544	0.93%
2027	4,012,954	2,293,300	38,679	6,344,933	247,369	28,829	6,621,130	61,080	0.93%
2028	4,039,242	2,328,194	38,482	6,405,917	247,398	28,754	6,682,069	60,939	0.92%
2029	4,065,840	2,362,341	38,285	6,466,466	247,430	28,677	6,742,573	60,504	0.91%
2030	4,092,671	2,395,892	38,090	6,526,653	247,492	28,612	6,802,757	60,184	0.89%
2031	4,119,766	2,429,326	37,896	6,586,988	247,487	28,560	6,863,035	60,278	0.89%
2032	4,146,897	2,462,577	37,703	6,647,177	247,473	28,510	6,923,160	60,126	0.88%
2033	4,174,007	2,495,125	37,510	6,706,643	247,465	28,461	6,982,569	59,409	0.86%
2034	4,201,097	2,527,119	37,319	6,765,535	247,479	28,430	7,041,444	58,875	0.84%
2035	4,228,218	2,559,141	37,129	6,824,487	247,503	28,406	7,100,397	58,952	0.84%
2036	4,255,359	2,591,484	36,939	6,883,783	247,543	28,386	7,159,711	59,315	0.84%
2037	4,282,558	2,624,018	36,751	6,943,327	247,608	28,364	7,219,300	59,588	0.83%
2038	4,309,796	2,656,597	36,564	7,002,957	247,678	28,344	7,278,979	59,680	0.83%
2039	4,337,025	2,689,339	36,377	7,062,741	247,748	28,327	7,338,816	59,837	0.82%
2040	4,364,232	2,722,119	36,192	7,122,543	247,848	28,304	7,398,694	59,878	0.82%
2041	4,391,517	2,754,949	36,007	7,182,473	247,923	28,287	7,458,683	59,988	0.81%

Year	Active SF	Active MF	Active MM	Active tot Res	Active Com	Active Ind	Active Total	Growth	%Grow
2000	3,158,252	1,597,527	44,860	4,800,639	185,845	22,071	5,008,555	69,255	1.40%
2001	3,210,899	1,604,796	44,487	4,860,183	187,676	21,859	5,069,718	61,163	1.22%
2002	3,268,930	1,612,709	44,215	4,925,855	189,804	21,396	5,137,054	67,336	1.33%
2003	3,322,120	1,621,230	43,861	4,987,211	190,114	20,848	5,198,173	61,119	1.19%
2004	3,377,588	1,633,083	43,540	5,054,210	191,291	20,734	5,266,235	68,062	1.31%
2005	3,434,786	1,637,608	43,177	5,115,570	192,270	20,590	5,328,430	62,195	1.18%
2006	3,488,997	1,647,654	42,695	5,179,346	192,321	20,307	5,391,974	63,544	1.19%
2007	3,524,381	1,665,905	42,386	5,232,672	192,862	20,257	5,445,791	53,817	1.00%
2008	3,531,044	1,681,864	42,026	5,254,934	191,906	20,140	5,466,979	21,188	0.39%
2009	3,547,653	1,681,251	41,710	5,270,615	190,000	19,699	5,480,314	13,335	0.24%
2010	3,570,361	1,697,335	41,485	5,309,182	188,141	19,346	5,516,668	36,354	0.66%
2011	3,585,183	1,716,280	41,242	5,342,705	187,337	19,135	5,549,177	32,509	0.59%
2012	3,598,669	1,730,663	41,038	5,370,370	186,996	18,989	5,576,355	27,178	0.49%
2013	3,614,927	1,743,855	40,895	5,399,678	187,544	18,891	5,606,113	29,758	0.53%
2014	3,626,418	1,752,150	40,661	5,419,229	188,058	19,018	5,626,305	20,192	0.36%
2015	3,645,823	1,771,533	40,454	5,457,810	188,470	19,159	5,665,439	39,134	0.70%
2016	3,667,357	1,796,593	40,248	5,504,197	188,979	19,238	5,712,414	46,975	0.83%
2017	3,689,926	1,828,441	40,042	5,558,410	189,405	19,286	5,767,101	54,687	0.96%
2018	3,713,212	1,864,279	39,838	5,617,329	189,592	19,332	5,826,252	59,151	1.03%
2019	3,737,197	1,900,855	39,635	5,677,687	189,601	19,375	5,886,663	60,411	1.04%
2020	3,761,526	1,937,062	39,433	5,738,021	189,572	19,378	5,946,970	60,307	1.02%
2021	3,785,745	1,973,103	39,232	5,798,080	189,434	19,364	6,006,877	59,907	1.01%
2022	3,809,769	2,008,295	39,032	5,857,095	189,320	19,342	6,065,758	58,881	0.98%
2023	3,833,681	2,042,599	38,833	5,915,112	189,235	19,323	6,123,670	57,912	0.95%
2024	3,857,742	2,076,323	38,635	5,972,700	189,175	19,312	6,181,186	57,516	0.94%
2025	3,882,378	2,109,677	38,438	6,030,493	189,139	19,288	6,238,920	57,734	0.93%
2026	3,907,575	2,142,999	38,242	6,088,815	189,131	19,244	6,297,191	58,271	0.93%
2027	3,933,196	2,176,395	38,047	6,147,637	189,144	19,198	6,355,980	58,789	0.93%
2028	3,958,961	2,209,510	37,852	6,206,324	189,167	19,148	6,414,639	58,659	0.92%
2029	3,985,030	2,241,917	37,659	6,264,607	189,191	19,097	6,472,895	58,256	0.91%
2030	4,011,328	2,273,757	37,467	6,322,553	189,239	19,053	6,530,845	57,951	0.90%
2031	4,037,884	2,305,487	37,276	6,380,648	189,235	19,019	6,588,902	58,057	0.89%
2032	4,064,476	2,337,044	37,086	6,438,606	189,225	18,986	6,646,817	57,915	0.88%
2033	4,091,048	2,367,933	36,897	6,495,877	189,218	18,953	6,704,049	57,232	0.86%
2034	4,117,599	2,398,296	36,709	6,552,603	189,229	18,933	6,760,765	56,716	0.85%
2035	4,144,181	2,428,685	36,522	6,609,388	189,247	18,916	6,817,551	56,787	0.84%
2036	4,170,783	2,459,380	36,335	6,666,498	189,278	18,903	6,874,679	57,127	0.84%
2037	4,197,441	2,490,255	36,150	6,723,846	189,328	18,888	6,932,063	57,384	0.83%
2038	4,224,138	2,521,173	35,966	6,781,277	189,381	18,875	6,989,534	57,471	0.83%
2039	4,250,825	2,552,246	35,782	6,838,854	189,435	18,864	7,047,153	57,619	0.82%
2040	4,277,492	2,583,356	35,600	6,896,448	189,511	18,848	7,104,806	57,654	0.82%
2041	4,304,235	2,614,512	35,418	6,954,165	189,568	18,837	7,162,570	57,764	0.81%

SoCalGas Meter Data

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
1	197902	1979	2	21858	183720	29175	1044831		3642050	2475361
2	197903	1979	3	22243	184640	28998	1056084	11253	3666581	2488253
3	197904	1979	4	22568	186131	29325	1067481	11397	3590558	2500509
4	198001	1980	1	23415	187947	29949	1076885	9404	3609899	2509598
5	198002	1980	2	24230	189288	30018	1085343	8458	3627683	2518110
6	198003	1980	3	24697	189860	29646	1094447	9104	3645414	2526270
7	198004	1980	4	25086	190673	29948	1104182	9735	3663657	2534389
8	198101	1981	1	31743	191756	30504	1113039	8857	3685041	2540259
9	198102	1981	2	31462	192842	30256	1120924	7885	3694032	2541646
10	198103	1981	3	30131	193137	29903	1128137	7213	3703942	2545674
11	198104	1981	4	30761	193171	30035	1135861	7724	3718300	2551678
12	198201	1982	1	31782	195127	30468	1143617	7756	3731531	2556132
13	198202	1982	2	32554	196109	30304	1150513	6896	3742658	2559591
14	198203	1982	3	33081	196181	29752	1157101	6588	3752250	2562068
15	198204	1982	4	33618	196634	29867	1164070	6969	3763314	2565626
16	198301	1983	1	34436	197766	30090	1171468	7398	3774855	2568951
17	198302	1983	2	35047	198576	29610	1178057	6589	3784431	2571326
18	198303	1983	3	35534	198967	29054	1185677	7620	3797322	2576111
19	198304	1983	4	35945	199210	29199	1193933	8256	3811473	2581594
20	198401	1984	1	36487	199562	29619	1202899	8966	3827374	2587988
21	198402	1984	2	36857	199640	29357	1210847	7948	3841796	2594092
22	198403	1984	3	37078	200945	28796	1219044	8197	3855409	2599287
23	198404	1984	4	37507	203617	29038	1229031	9987	3872161	2605623
24	198501	1985	1	38077	206126	29678	1240563	11532	3891179	2612539
25	198502	1985	2	38691	207173	29218	1252269	11706	3909929	2618969
26	198503	1985	3	39205	208667	28547	1264693	12424	3931109	2627211
27	198504	1985	4	39577	207966	28825	1274087	9394	3948303	2634639
28	198601	1986	1	40046	207892	29337	1291752	17665	3977948	2646149
29	198602	1986	2	40343	208707	28658	1304602	12850	3998769	2653824
30	198603	1986	3	40614	208638	27923	1321020	16418	4025542	2663907
31	198604	1986	4	40841	208138	27834	1338645	17625	4054471	2674985
32	198701	1987	1	41155	209297	28359	1357743	19098	4086916	2688018
33	198702	1987	2	41515	210135	27864	1375695	17952	4115974	2698764
34	198703	1987	3	41784	210053	27149	1393988	18293	4146352	2710580
35	198704	1987	4	42070	209320	27039	1412851	18863	4178526	2723605
36	198801	1988	1	42480	211115	28026	1431008	18157	4209742	2736255
37	198802	1988	2	42932	211878	27478	1446245	15237	4236806	2747629

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
38	198803	1988	3	43329	211737	26853	1461772	15527	4265413	2760311
39	198804	1988	4	43580	211251	26845	1477080	15308	4295463	2774803
40	198901	1989	1	43759	213036	27854	1491608	14528	4325396	2790029
41	198902	1989	2	43875	214071	27462	1503773	12165	4351224	2803576
42	198903	1989	3	44022	213857	27087	1516455	12682	4378240	2817763
43	198904	1989	4	44117	213043	27555	1527687	11232	4404043	2832238
44	199001	1990	1	44180	213256	28605	1538257	10570	4429540	2847103
45	199002	1990	2	44251	212932	28943	1548197	9940	4451879	2859431
46	199003	1990	3	44282	212146	29004	1558661	10464	4474196	2871253
47	199004	1990	4	44349	211367	29070	1569031	10370	4495575	2882195
48	199101	1991	1	44430	212776	29359	1578685	9654	4515838	2892723
49	199102	1991	2	44541	212479	29325	1585226	6541	4529316	2899549
50	199103	1991	3	44702	212028	29086	1592815	7589	4547067	2909550
51	199104	1991	4	44899	211826	28838	1599356	6541	4561999	2917745
52	199201	1992	1	45110	212836	28614	1605648	6292	4578511	2927753
53	199202	1992	2	45208	212521	28520	1609530	3882	4588493	2933755
54	199203	1992	3	45321	211168	28292	1614333	4803	4600253	2940598
55	199204	1992	4	45436	209945	27952	1617793	3460	4610344	2947115
56	199301	1993	1	45599	211971	27984	1622983	5190	4623722	2955141
57	199302	1993	2	45783	212034	27801	1625981	2998	4633091	2961327
58	199303	1993	3	45974	211703	27815	1628994	3013	4642760	2967791
59	199304	1993	4	46034	211866	27847	1631384	2390	4653009	2975591
60	199401	1994	1	46039	213927	27906	1633936	2552	4663896	2983921
61	199402	1994	2	46120	214869	28018	1635446	1510	4672323	2990756
62	199403	1994	3	46156	215040	28102	1636299	853	4680520	2998066
63	199404	1994	4	46171	215855	28133	1638623	2324	4688980	3004186
64	199501	1995	1	46200	217670	28240	1639364	741	4699545	3013981
65	199502	1995	2	46267	217826	28348	1641896	2532	4709878	3021715
66	199503	1995	3	46394	217793	28282	1644230	2334	4719551	3028927
67	199504	1995	4	46467	218014	28205	1646880	2650	4729862	3036514
68	199601	1996	1	46470	218640	28140	1650665	3785	4745530	3048395
69	199602	1996	2	46426	218594	28179	1653824	3159	4761408	3061158
70	199603	1996	3	46403	218830	28258	1653652	-172	4763704	3063648
71	199604	1996	4	46369	219440	28284	1655288	1636	4774126	3072469
72	199701	1997	1	46302	220479	28407	1657156	1868	4784404	3080946
73	199702	1997	2	46265	220864	28455	1658583	1427	4793847	3088999
74	199703	1997	3	46232	221120	28517	1659839	1256	4803629	3097558
75	199704	1997	4	46144	221208	28331	1661381	1542	4814809	3107284

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
76	199801	1998	1	46138	222737	28842	1663079	1698	4826113	3116896
77	199802	1998	2	46063	223102	28939	1664297	1218	4836096	3125735
78	199803	1998	3	46070	223543	28970	1665237	940	4846087	3134780
79	199804	1998	4	45986	224016	28997	1666266	1029	4857260	3145007
80	199901	1999	1	45941	225169	28939	1667744	1478	4869520	3155835
81	199902	1999	2	45895	225792	28832	1668939	1195	4881087	3166253
82	199903	1999	3	45909	226291	28833	1669901	962	4892684	3176875
83	199904	1999	4	45877	226952	28783	1671157	1256	4905479	3188446
84	200001	2000	1	45763	227898	28745	1672110	953	4917648	3199775
85	200002	2000	2	45608	228203	28725	1673490	1380	4929245	3210148
86	200003	2000	3	45569	228299	28706	1674705	1215	4940921	3220647
87	200004	2000	4	45486	228881	28725	1675802	1097	4955205	3233917
88	200101	2001	1	45353	229826	28732	1676450	648	4968449	3246646
89	200102	2001	2	45228	230307	28656	1677728	1278	4981854	3258898
90	200103	2001	3	45186	230583	28623	1679462	1734	4996289	3271641
91	200104	2001	4	45125	231156	28602	1680863	1401	5011483	3285495
92	200201	2002	1	45045	232152	28481	1682493	1630	5027317	3299778
93	200202	2002	2	44947	232680	28343	1684068	1575	5041293	3312278
94	200203	2002	3	44850	233049	28266	1685287	1219	5054914	3324776
95	200204	2002	4	44754	233576	28201	1686762	1475	5070605	3339089
96	200301	2003	1	44691	234176	28179	1688173	1411	5087363	3354499
97	200302	2003	2	44560	234430	28157	1691800	3627	5102799	3366439
98	200303	2003	3	44451	234653	28195	1698946	7146	5120930	3377532
99	200304	2003	4	44395	235080	28250	1702718	3772	5139572	3392458
100	200401	2004	1	44299	235942	28341	1706683	3965	5158231	3407249
101	200402	2004	2	44202	236150	28260	1709744	3061	5175548	3421602
102	200403	2004	3	44096	236379	28286	1711623	1879	5192624	3436905
103	200404	2004	4	44043	236775	28349	1714166	2543	5211715	3453507
104	200501	2005	1	43949	237307	28463	1716613	2447	5229466	3468904
105	200502	2005	2	43855	237764	28205	1718240	1627	5245507	3483412
106	200503	2005	3	43786	238002	28207	1721898	3658	5267964	3502280
107	200504	2005	4	43619	238249	28232	1724006	2108	5284726	3517101
108	200601	2006	1	43497	238774	28381	1728103	4097	5305737	3534137
109	200602	2006	2	43395	239380	28185	1732341	4238	5325124	3549389
110	200603	2006	3	43272	239694	28113	1736811	4470	5342860	3562776
111	200604	2006	4	43182	240001	28149	1741663	4852	5361024	3576179
112	200701	2007	1	43140	240569	28270	1748077	6414	5379414	3588197
113	200702	2007	2	43071	240764	28366	1753258	5181	5392644	3596315

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
114	200703	2007	3	43018	240970	28341	1758177	4919	5405490	3604296
115	200704	2007	4	42931	241485	28342	1763497	5320	5418824	3612396
116	200801	2008	1	42845	242084	28444	1768672	5175	5430253	3618736
117	200802	2008	2	42736	242168	28497	1773994	5322	5440026	3623296
118	200803	2008	3	42645	242338	28518	1779737	5743	5450581	3628198
119	200804	2008	4	42572	242664	28547	1784639	4902	5459921	3632752
120	200901	2009	1	42482	243245	28583	1787967	3328	5466701	3636252
121	200902	2009	2	42438	243471	28595	1792067	4100	5473407	3638903
122	200903	2009	3	42396	243402	28593	1795984	3917	5480582	3642202
123	200904	2009	4	42340	243589	28584	1798805	2821	5486808	3645663
124	201001	2010	1	42287	243806	28615	1802483	3678	5493637	3648867
125	201002	2010	2	42226	243905	28662	1805613	3130	5499719	3651880
126	201003	2010	3	42150	243942	28647	1808846	3233	5505856	3654860
127	201004	2010	4	42081	244093	28639	1811071	2225	5510824	3657672
128	201101	2011	1	42016	244440	28639	1812395	1324	5514278	3659867
129	201102	2011	2	41970	244381	28613	1813744	1349	5517458	3661744
130	201103	2011	3	41924	244362	28622	1815364	1620	5521303	3664015
131	201104	2011	4	41870	244521	28603	1817304	1940	5525545	3666372
132	201201	2012	1	41805.66667	244844	28633	1819593.333	2289	5529770	3668371
133	201202	2012	2	41756.33333	244818	28587	1821788.667	2195	5533768	3670223
134	201203	2012	3	41698	244896	28533	1823985.333	2197	5538189	3672506
135	201204	2012	4	41656.66667	245148	28473	1825912.667	1927	5542899	3675330
136	201301	2013	1	41609.33333	245430	28432	1828289	2376	5548363	3678464
137	201302	2013	2	41570.33333	245540	28452	1830694.333	2405	5553641	3681376
138	201303	2013	3	41529.33333	245474	28449	1833309.667	2615	5559483	3684644
139	201304	2013	4	41487.66667	245546	28426	1835372.667	2063	5565205	3688345
140	201401	2014	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
141	201402	2014	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
142	201403	2014	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
143	201404	2014	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
144	201501	2015	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
145	201502	2015	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
146	201503	2015	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
147	201504	2015	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
148	201601	2016	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
149	201602	2016	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
150	201603	2016	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
151	201604	2016	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
152	201701	2017	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
153	201702	2017	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
154	201703	2017	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
155	201704	2017	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
156	201801	2018	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
157	201802	2018	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
158	201803	2018	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
159	201804	2018	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
160	201901	2019	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
161	201902	2019	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
162	201903	2019	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
163	201904	2019	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
164	202001	2020	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
165	202002	2020	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
166	202003	2020	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
167	202004	2020	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
168	202101	2021	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
169	202102	2021	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
170	202103	2021	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
171	202104	2021	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
172	202201	2022	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
173	202202	2022	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
174	202203	2022	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
175	202204	2022	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
176	202301	2023	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
177	202302	2023	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
178	202303	2023	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
179	202304	2023	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
180	202401	2024	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
181	202402	2024	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
182	202403	2024	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
183	202404	2024	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
184	202501	2025	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
185	202502	2025	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
186	202503	2025	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
187	202504	2025	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
188	202601	2026	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
189	202602	2026	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
190	202603	2026	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
191	202604	2026	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
192	202701	2027	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
193	202702	2027	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
194	202703	2027	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
195	202704	2027	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
196	202801	2028	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
197	202802	2028	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
198	202803	2028	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
199	202804	2028	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
200	202901	2029	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
201	202902	2029	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
202	202903	2029	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
203	202904	2029	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
204	203001	2030	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
205	203002	2030	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
206	203003	2030	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
207	203004	2030	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
208	203101	2031	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
209	203102	2031	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
210	203103	2031	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
211	203104	2031	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
212	203201	2032	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
213	203202	2032	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
214	203203	2032	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
215	203204	2032	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
216	203301	2033	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
217	203302	2033	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
218	203303	2033	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
219	203304	2033	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
220	203401	2034	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
221	203402	2034	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
222	203403	2034	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
223	203404	2034	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
224	203501	2035	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
225	203502	2035	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
226	203503	2035	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
227	203504	2035	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
228	203601	2036	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
229	203602	2036	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
230	203603	2036	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
231	203604	2036	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
232	203701	2037	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
233	203702	2037	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
234	203703	2037	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
235	203704	2037	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
236	203801	2038	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
237	203802	2038	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
238	203803	2038	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
239	203804	2038	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
240	203901	2039	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
241	203902	2039	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
242	203903	2039	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
243	203904	2039	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
244	204001	2040	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
245	204002	2040	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
246	204003	2040	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
247	204004	2040	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
248	204101	2041	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
249	204102	2041	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
250	204103	2041	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
251	204104	2041	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML
1	197902	1979	2						
2	197903	1979	3	12892	11253	385	2475361	1044831	21858
3	197904	1979	4	12256	11397	325	2488253	1056084	22243
4	198001	1980	1	9089	9404	847	2500509	1067481	22568
5	198002	1980	2	8512	8458	815	2509598	1076885	23415
6	198003	1980	3	8160	9104	467	2518110	1085343	24230
7	198004	1980	4	8119	9735	389	2526270	1094447	24697
8	198101	1981	1	5870	8857	6657	2534389	1104182	25086
9	198102	1981	2	1387	7885	-281	2540259	1113039	31743
10	198103	1981	3	4028	7213	-1331	2541646	1120924	31462
11	198104	1981	4	6004	7724	630	2545674	1128137	30131
12	198201	1982	1	4454	7756	1021	2551678	1135861	30761

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML
13	198202	1982	2	3459	6896	772	2556132	1143617	31782
14	198203	1982	3	2477	6588	527	2559591	1150513	32554
15	198204	1982	4	3558	6969	537	2562068	1157101	33081
16	198301	1983	1	3325	7398	818	2565626	1164070	33618
17	198302	1983	2	2375	6589	611	2568951	1171468	34436
18	198303	1983	3	4785	7620	487	2571326	1178057	35047
19	198304	1983	4	5483	8256	411	2576111	1185677	35534
20	198401	1984	1	6394	8966	542	2581594	1193933	35945
21	198402	1984	2	6104	7948	370	2587988	1202899	36487
22	198403	1984	3	5195	8197	221	2594092	1210847	36857
23	198404	1984	4	6336	9987	429	2599287	1219044	37078
24	198501	1985	1	6916	11532	570	2605623	1229031	37507
25	198502	1985	2	6430	11706	614	2612539	1240563	38077
26	198503	1985	3	8242	12424	514	2618969	1252269	38691
27	198504	1985	4	7428	9394	372	2627211	1264693	39205
28	198601	1986	1	11510	17665	469	2634639	1274087	39577
29	198602	1986	2	7675	12850	297	2646149	1291752	40046
30	198603	1986	3	10083	16418	271	2653824	1304602	40343
31	198604	1986	4	11078	17625	227	2663907	1321020	40614
32	198701	1987	1	13033	19098	314	2674985	1338645	40841
33	198702	1987	2	10746	17952	360	2688018	1357743	41155
34	198703	1987	3	11816	18293	269	2698764	1375695	41515
35	198704	1987	4	13025	18863	286	2710580	1393988	41784
36	198801	1988	1	12650	18157	410	2723605	1412851	42070
37	198802	1988	2	11374	15237	452	2736255	1431008	42480
38	198803	1988	3	12682	15527	397	2747629	1446245	42932
39	198804	1988	4	14492	15308	251	2760311	1461772	43329
40	198901	1989	1	15226	14528	179	2774803	1477080	43580
41	198902	1989	2	13547	12165	116	2790029	1491608	43759
42	198903	1989	3	14187	12682	147	2803576	1503773	43875
43	198904	1989	4	14475	11232	95	2817763	1516455	44022
44	199001	1990	1	14865	10570	63	2832238	1527687	44117
45	199002	1990	2	12328	9940	71	2847103	1538257	44180
46	199003	1990	3	11822	10464	31	2859431	1548197	44251
47	199004	1990	4	10942	10370	67	2871253	1558661	44282
48	199101	1991	1	10528	9654	81	2882195	1569031	44349
49	199102	1991	2	6826	6541	111	2892723	1578685	44430
50	199103	1991	3	10001	7589	161	2899549	1585226	44541
51	199104	1991	4	8195	6541	197	2909550	1592815	44702

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFEL	CONNMMML
52	199201	1992	1	10008	6292	211	2917745	1599356	44899
53	199202	1992	2	6002	3882	98	2927753	1605648	45110
54	199203	1992	3	6843	4803	113	2933755	1609530	45208
55	199204	1992	4	6517	3460	115	2940598	1614333	45321
56	199301	1993	1	8026	5190	163	2947115	1617793	45436
57	199302	1993	2	6186	2998	184	2955141	1622983	45599
58	199303	1993	3	6464	3013	191	2961327	1625981	45783
59	199304	1993	4	7800	2390	60	2967791	1628994	45974
60	199401	1994	1	8330	2552	5	2975591	1631384	46034
61	199402	1994	2	6835	1510	81	2983921	1633936	46039
62	199403	1994	3	7310	853	36	2990756	1635446	46120
63	199404	1994	4	6120	2324	15	2998066	1636299	46156
64	199501	1995	1	9795	741	29	3004186	1638623	46171
65	199502	1995	2	7734	2532	67	3013981	1639364	46200
66	199503	1995	3	7212	2334	127	3021715	1641896	46267
67	199504	1995	4	7587	2650	73	3028927	1644230	46394
68	199601	1996	1	11881	3785	3	3036514	1646880	46467
69	199602	1996	2	12763	3159	-44	3048395	1650665	46470
70	199603	1996	3	2490	-172	-23	3061158	1653824	46426
71	199604	1996	4	8821	1636	-34	3063648	1653652	46403
72	199701	1997	1	8477	1868	-67	3072469	1655288	46369
73	199702	1997	2	8053	1427	-37	3080946	1657156	46302
74	199703	1997	3	8559	1256	-33	3088999	1658583	46265
75	199704	1997	4	9726	1542	-88	3097558	1659839	46232
76	199801	1998	1	9612	1698	-6	3107284	1661381	46144
77	199802	1998	2	8839	1218	-75	3116896	1663079	46138
78	199803	1998	3	9045	940	7	3125735	1664297	46063
79	199804	1998	4	10227	1029	-84	3134780	1665237	46070
80	199901	1999	1	10828	1478	-45	3145007	1666266	45986
81	199902	1999	2	10418	1195	-46	3155835	1667744	45941
82	199903	1999	3	10622	962	14	3166253	1668939	45895
83	199904	1999	4	11571	1256	-32	3176875	1669901	45909
84	200001	2000	1	11329	953	-114	3188446	1671157	45877
85	200002	2000	2	10373	1380	-155	3199775	1672110	45763
86	200003	2000	3	10499	1215	-39	3210148	1673490	45608
87	200004	2000	4	13270	1097	-83	3220647	1674705	45569
88	200101	2001	1	12729	648	-133	3233917	1675802	45486
89	200102	2001	2	12252	1278	-125	3246646	1676450	45353
90	200103	2001	3	12743	1734	-42	3258898	1677728	45228

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMF	CONNMML
91	200104	2001	4	13854	1401	-61	3271641	1679462	45186
92	200201	2002	1	14283	1630	-80	3285495	1680863	45125
93	200202	2002	2	12500	1575	-98	3299778	1682493	45045
94	200203	2002	3	12498	1219	-97	3312278	1684068	44947
95	200204	2002	4	14313	1475	-96	3324776	1685287	44850
96	200301	2003	1	15410	1411	-63	3339089	1686762	44754
97	200302	2003	2	11940	3627	-131	3354499	1688173	44691
98	200303	2003	3	11093	7146	-109	3366439	1691800	44560
99	200304	2003	4	14926	3772	-56	3377532	1698946	44451
100	200401	2004	1	14791	3965	-96	3392458	1702718	44395
101	200402	2004	2	14353	3061	-97	3407249	1706683	44299
102	200403	2004	3	15303	1879	-106	3421602	1709744	44202
103	200404	2004	4	16602	2543	-53	3436905	1711623	44096
104	200501	2005	1	15397	2447	-94	3453507	1714166	44043
105	200502	2005	2	14508	1627	-94	3468904	1716613	43949
106	200503	2005	3	18868	3658	-69	3483412	1718240	43855
107	200504	2005	4	14821	2108	-167	3502280	1721898	43786
108	200601	2006	1	17036	4097	-122	3517101	1724006	43619
109	200602	2006	2	15252	4238	-102	3534137	1728103	43497
110	200603	2006	3	13387	4470	-123	3549389	1732341	43395
111	200604	2006	4	13403	4852	-90	3562776	1736811	43272
112	200701	2007	1	12018	6414	-42	3576179	1741663	43182
113	200702	2007	2	8118	5181	-69	3588197	1748077	43140
114	200703	2007	3	7981	4919	-53	3596315	1753258	43071
115	200704	2007	4	8100	5320	-87	3604296	1758177	43018
116	200801	2008	1	6340	5175	-86	3612396	1763497	42931
117	200802	2008	2	4560	5322	-109	3618736	1768672	42845
118	200803	2008	3	4902	5743	-91	3623296	1773994	42736
119	200804	2008	4	4554	4902	-73	3628198	1779737	42645
120	200901	2009	1	3500	3328	-90	3632752	1784639	42572
121	200902	2009	2	2651	4100	-44	3636252	1787967	42482
122	200903	2009	3	3299	3917	-42	3638903	1792067	42438
123	200904	2009	4	3461	2821	-56	3642202	1795984	42396
124	201001	2010	1	3204	3678	-53	3645663	1798805	42340
125	201002	2010	2	3013	3130	-61	3648867	1802483	42287
126	201003	2010	3	2980	3233	-76	3651880	1805613	42226
127	201004	2010	4	2812	2225	-69	3654860	1808846	42150
128	201101	2011	1	2195	1324	-65	3657672	1811071	42081
129	201102	2011	2	1877	1349	-46	3659867	1812395	42016

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMF	CONNMML
130	201103	2011	3	2271	1620	-46	3661744	1813744	41970
131	201104	2011	4	2357	1940	-54	3664015	1815364	41924
132	201201	2012	1	1999	2289	-64	3666372	1817304	41870
133	201202	2012	2	1852	2195	-49	3668371	1819593	41806
134	201203	2012	3	2282	2197	-58	3670223	1821789	41756
135	201204	2012	4	2824	1927	-41	3672506	1823985	41698
136	201301	2013	1	3135	2376	-47	3675330	1825913	41657
137	201302	2013	2	2912	2405	-39	3678464	1828289	41609
138	201303	2013	3	3268	2615	-41	3681376	1830694	41570
139	201304	2013	4	3701	2063	-42	3684644	1833310	41529
140	201401	2014	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
141	201402	2014	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
142	201403	2014	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
143	201404	2014	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
144	201501	2015	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
145	201502	2015	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
146	201503	2015	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
147	201504	2015	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
148	201601	2016	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
149	201602	2016	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
150	201603	2016	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
151	201604	2016	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
152	201701	2017	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
153	201702	2017	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
154	201703	2017	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
155	201704	2017	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
156	201801	2018	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
157	201802	2018	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
158	201803	2018	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
159	201804	2018	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
160	201901	2019	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
161	201902	2019	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
162	201903	2019	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
163	201904	2019	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
164	202001	2020	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
165	202002	2020	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
166	202003	2020	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
167	202004	2020	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
168	202101	2021	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML
169	202102	2021	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
170	202103	2021	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
171	202104	2021	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
172	202201	2022	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
173	202202	2022	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
174	202203	2022	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
175	202204	2022	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
176	202301	2023	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
177	202302	2023	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
178	202303	2023	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
179	202304	2023	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
180	202401	2024	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
181	202402	2024	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
182	202403	2024	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
183	202404	2024	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
184	202501	2025	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
185	202502	2025	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
186	202503	2025	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
187	202504	2025	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
188	202601	2026	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
189	202602	2026	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
190	202603	2026	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
191	202604	2026	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
192	202701	2027	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
193	202702	2027	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
194	202703	2027	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
195	202704	2027	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
196	202801	2028	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
197	202802	2028	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
198	202803	2028	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
199	202804	2028	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
200	202901	2029	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
201	202902	2029	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
202	202903	2029	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
203	202904	2029	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
204	203001	2030	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
205	203002	2030	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
206	203003	2030	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
207	203004	2030	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMF	CONNMML
208	203101	2031	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
209	203102	2031	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
210	203103	2031	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
211	203104	2031	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
212	203201	2032	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
213	203202	2032	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
214	203203	2032	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
215	203204	2032	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
216	203301	2033	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
217	203302	2033	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
218	203303	2033	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
219	203304	2033	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
220	203401	2034	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
221	203402	2034	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
222	203403	2034	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
223	203404	2034	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
224	203501	2035	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
225	203502	2035	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
226	203503	2035	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
227	203504	2035	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
228	203601	2036	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
229	203602	2036	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
230	203603	2036	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
231	203604	2036	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
232	203701	2037	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
233	203702	2037	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
234	203703	2037	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
235	203704	2037	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
236	203801	2038	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
237	203802	2038	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
238	203803	2038	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
239	203804	2038	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
240	203901	2039	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
241	203902	2039	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
242	203903	2039	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
243	203904	2039	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
244	204001	2040	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
245	204002	2040	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
246	204003	2040	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML	HSSFL1
247	204004	2040	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	68518.25334
248	204101	2041	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	64910.01276
249	204102	2041	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	54917.23079
250	204103	2041	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	45762.28758
251	204104	2041	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	32749.31115
										41728.36932
										46676.80278
										39574.02365
										41776.7275
										23206.81937
										21077.65931
										22277.80605
										22068.61295
										23307.88811
										30486.66218
										41957.6425
										55111.5887
										56643.00942
										62425.00937
										72460.155
										62754.10599
										52840.16114
										62754.11
										56294.39311
										52840.16
										68235.00075
										56294.39
										59737.13249
										68235
										58446.64816
										59737.13
										62241.34532
										58446.65
										69343.36266
										62241.35
										76234.99228
										69343.36
										70494.17561
										76234.99
OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSS	
1	197902	1979	2	44808.01337						
2	197903	1979	3	41461.18751	44808.013					
3	197904	1979	4	43742.01434	41461.188	44808.01337				
4	198001	1980	1	33673.57974	43742.014	41461.18751	44808.01337			
5	198002	1980	2	25028.61526	33673.58	43742.01434	41461.18751	44808.01337		
6	198003	1980	3	27336.49457	25028.615	33673.57974	43742.01434	41461.18751		
7	198004	1980	4	31016.37109	27336.495	25028.61526	33673.57974	43742.01434		
8	198101	1981	1	24950.37298	31016.371	27336.49457	25028.61526	33673.57974		
9	198102	1981	2	24365.27858	24950.373	31016.37109	27336.49457	25028.61526		
10	198103	1981	3	18653.62173	24365.279	24950.37298	31016.37109	27336.49457		
11	198104	1981	4	17023.1623	18653.622	24365.27858	24950.37298	31016.37109		
12	198201	1982	1	11376.4703	17023.162	18653.62173	24365.27858	24950.37298		
13	198202	1982	2	15169.93948	11376.47	17023.1623	18653.62173	24365.27858		
14	198203	1982	3	16699.46124	15169.939	11376.4703	17023.1623	18653.62173		
15	198204	1982	4	15089.5618	16699.461	15169.93948	11376.4703	17023.1623		
16	198301	1983	1	23378.5328	15089.562	16699.46124	15169.93948	11376.4703		
17	198302	1983	2	28808.06941	23378.533	15089.5618	16699.46124	15169.93948		
18	198303	1983	3	35342.49696	28808.069	23378.5328	15089.5618	16699.46124		
19	198304	1983	4	37261.24168	35342.497	28808.06941	23378.5328	15089.5618		
20	198401	1984	1	61170.39726	37261.242	35342.49696	28808.06941	23378.5328		
21	198402	1984	2	50721.26506	61170.397	37261.24168	35342.49696	28808.06941		
22	198403	1984	3	53245.724	50721.265	61170.39726	37261.24168	35342.49696		
23	198404	1984	4	53728.60141	53245.724	50721.26506	61170.39726	37261.24168		
24	198501	1985	1	68584.96899	53728.601	53245.724	50721.26506	61170.39726		
25	198502	1985	2	68922.73118	68584.969	53728.60141	53245.724	50721.26506		
26	198503	1985	3	74459.39188	68922.731	68584.96899	53728.60141	53245.724		
27	198504	1985	4	90539.25573	74459.392	68922.73118	68584.96899	53728.60141		
28	198601	1986	1	91434.67252	90539.256	74459.39188	68922.73118	68584.96899		
29	198602	1986	2	90754.4208	91434.673	90539.25573	74459.39188	68922.73118		
30	198603	1986	3	78064.44668	90754.421	91434.67252	90539.25573	74459.39188		

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
31	198604	1986	4	102910.6933	78064.447	90754.4208	91434.67252	90539.25573	85702.05245	70494.18
32	198701	1987	1	88329.0399	102910.69	78064.44668	90754.4208	91434.67252	93748.39487	85702.05
33	198702	1987	2	69537.4639	88329.04	102910.6933	78064.44668	90754.4208	73633.53179	93748.39
34	198703	1987	3	69074.46111	69537.464	88329.0399	102910.6933	78064.44668	72942.38849	73633.53
35	198704	1987	4	60126.00595	69074.461	69537.4639	88329.0399	102910.6933	70428.57142	72942.39
36	198801	1988	1	54751.07622	60126.006	69074.46111	69537.4639	88329.0399	90520.81689	70428.57
37	198802	1988	2	50094.1218	54751.076	60126.00595	69074.46111	69537.4639	83024.045	90520.82
38	198803	1988	3	49384.75365	50094.122	54751.07622	60126.00595	69074.46111	89657.2361	83024.05
39	198804	1988	4	55459.8315	49384.754	50094.1218	54751.07622	60126.00595	96932.73572	89657.24
40	198901	1989	1	49105.65078	55459.832	49384.75365	50094.1218	54751.07622	90057.56226	96932.74
41	198902	1989	2	42991.55532	49105.651	55459.8315	49384.75365	50094.1218	92820.76544	90057.56
42	198903	1989	3	38276.56686	42991.555	49105.65078	55459.8315	49384.75365	89624.21432	92820.77
43	198904	1989	4	39504.0224	38276.567	42991.55532	49105.65078	55459.8315	89669.27671	89624.21
44	199001	1990	1	45349.52511	39504.022	38276.56686	42991.55532	49105.65078	80090.42144	89669.28
45	199002	1990	2	35116.17477	45349.525	39504.0224	38276.56686	42991.55532	56586.4542	80090.42
46	199003	1990	3	32110.8421	35116.175	45349.52511	39504.0224	38276.56686	49079.14466	56586.45
47	199004	1990	4	20373.16988	32110.842	35116.17477	45349.52511	39504.0224	40147.93447	49079.14
48	199101	1991	1	12961.10469	20373.17	32110.8421	35116.17477	45349.52511	33439.52342	40147.93
49	199102	1991	2	17283.0623	12961.105	20373.16988	32110.8421	35116.17477	41986.13461	33439.52
50	199103	1991	3	16632.64502	17283.062	12961.10469	20373.16988	32110.8421	40378.31071	41986.13
51	199104	1991	4	15906.88144	16632.645	17283.0623	12961.10469	20373.16988	40231.01488	40378.31
52	199201	1992	1	11852.39249	15906.881	16632.64502	17283.0623	12961.10469	42207.11616	40231.01
53	199202	1992	2	9174.76777	11852.392	15906.88144	16632.64502	17283.0623	43960.9033	42207.12
54	199203	1992	3	9553.84666	9174.7678	11852.39249	15906.88144	16632.64502	40259.95023	43960.9
55	199204	1992	4	9162.87655	9553.8467	9174.76777	11852.39249	15906.88144	41932.31231	40259.95
56	199301	1993	1	7875.76761	9162.8766	9553.84666	9174.76777	11852.39249	37619.82089	41932.31
57	199302	1993	2	6765.0825	7875.7676	9162.87655	9553.84666	9174.76777	41330.08532	37619.82
58	199303	1993	3	5779.8666	6765.0825	7875.76761	9162.87655	9553.84666	34341.67323	41330.09
59	199304	1993	4	3252.10738	5779.8666	6765.0825	7875.76761	9162.87655	37631.34237	34341.67
60	199401	1994	1	5919.74661	3252.1074	5779.8666	6765.0825	7875.76761	43817.32103	37631.34
61	199402	1994	2	7320.67359	5919.7466	3252.10738	5779.8666	6765.0825	40869.94341	43817.32
62	199403	1994	3	9911.20978	7320.6736	5919.74661	3252.10738	5779.8666	42009.25714	40869.94
63	199404	1994	4	12204.76155	9911.2098	7320.67359	5919.74661	3252.10738	36895.3248	42009.26
64	199501	1995	1	8444.24243	12204.762	9911.20978	7320.67359	5919.74661	35178.40195	36895.32
65	199502	1995	2	6911.70407	8444.2424	12204.76155	9911.20978	7320.67359	33240.8534	35178.4
66	199503	1995	3	7032.2603	6911.7041	8444.24243	12204.76155	9911.20978	36244.77905	33240.85
67	199504	1995	4	6873.17937	7032.2603	6911.70407	8444.24243	12204.76155	35369.81743	36244.78
68	199601	1996	1	9463.74525	6873.1794	7032.2603	6911.70407	8444.24243	38633.97964	35369.82
69	199602	1996	2	9535.86386	9463.7453	6873.17937	7032.2603	6911.70407	38329.13939	38633.98

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
70	199603	1996	3	5467.29227	9535.8639	9463.74525	6873.17937	7032.2603	37391.8262	38329.14
71	199604	1996	4	8043.1922	5467.2923	9535.86386	9463.74525	6873.17937	33545.94544	37391.83
72	199701	1997	1	6412.84833	8043.1922	5467.29227	9535.86386	9463.74525	43333.95026	33545.95
73	199702	1997	2	12076.77545	6412.8483	8043.1922	5467.29227	9535.86386	38919.23002	43333.95
74	199703	1997	3	7474.42428	12076.775	6412.84833	8043.1922	5467.29227	38503.45071	38919.23
75	199704	1997	4	10374.5378	7474.4243	12076.77545	6412.84833	8043.1922	44298.14993	38503.45
76	199801	1998	1	7046.39885	10374.538	7474.42428	12076.77545	6412.84833	44195.86365	44298.15
77	199802	1998	2	10619.00048	7046.3989	10374.5378	7474.42428	12076.77545	43575.24988	44195.86
78	199803	1998	3	10399.02561	10619	7046.39885	10374.5378	7474.42428	47326.62852	43575.25
79	199804	1998	4	10584.95861	10399.026	10619.00048	7046.39885	10374.5378	43504.09521	47326.63
80	199901	1999	1	12644.54387	10584.959	10399.02561	10619.00048	7046.39885	47206.1354	43504.1
81	199902	1999	2	8471.21676	12644.544	10584.95861	10399.02561	10619.00048	47999.24649	47206.14
82	199903	1999	3	13969.49787	8471.2168	12644.54387	10584.95861	10399.02561	49165.18169	47999.25
83	199904	1999	4	13791.36122	13969.498	8471.21676	12644.54387	10584.95861	47007.23978	49165.18
84	200001	2000	1	17379.07574	13791.361	13969.49787	8471.21676	12644.54387	48660.72957	47007.24
85	200002	2000	2	17038.59844	17379.076	13791.36122	13969.49787	8471.21676	37232.96638	48660.73
86	200003	2000	3	19304.58093	17038.598	17379.07574	13791.36122	13969.49787	44817.17154	37232.97
87	200004	2000	4	10547.16692	19304.581	17038.59844	17379.07574	13791.36122	51901.68925	44817.17
88	200101	2001	1	16505.5265	10547.167	19304.58093	17038.59844	17379.07574	53249.06231	51901.69
89	200102	2001	2	16074.71719	16505.527	10547.16692	19304.58093	17038.59844	53544.00998	53249.06
90	200103	2001	3	14282.40719	16074.717	16505.5265	10547.16692	19304.58093	49637.27174	53544.01
91	200104	2001	4	13194.75157	14282.407	16074.71719	16505.5265	10547.16692	53131.00661	49637.27
92	200201	2002	1	13914.32281	13194.752	14282.40719	16074.71719	16505.5265	61032.27644	53131.01
93	200202	2002	2	12378.27435	13914.323	13194.75157	14282.40719	16074.71719	57453.57714	61032.28
94	200203	2002	3	13115.77705	12378.274	13914.32281	13194.75157	14282.40719	62596.47844	57453.58
95	200204	2002	4	21953.17327	13115.777	12378.27435	13914.32281	13194.75157	66613.28857	62596.48
96	200301	2003	1	19767.88257	21953.173	21953.17327	13115.77705	12378.27435	72660.54551	66613.29
97	200302	2003	2	22295.40366	19767.883	19767.88257	21953.17327	13115.77705	77011.8652	72660.55
98	200303	2003	3	16645.45172	22295.404	19767.88257	21953.17327	13115.77705	64647.59896	77011.87
99	200304	2003	4	19686.79982	16645.452	22295.40366	19767.88257	21953.17327	80965.41311	64647.6
100	200401	2004	1	21156.64829	19686.8	16645.45172	22295.40366	19767.88257	82059.1731	80965.41
101	200402	2004	2	22130.01663	21156.648	19686.79982	16645.45172	22295.40366	81261.51279	82059.17
102	200403	2004	3	25129.80125	22130.017	21156.64829	19686.79982	16645.45172	80419.30961	81261.51
103	200404	2004	4	21789.66445	25129.801	22130.01663	21156.64829	19686.79982	80636.16549	80419.31
104	200501	2005	1	27559.74848	21789.664	25129.80125	22130.01663	21156.64829	79790.26088	80636.17
105	200502	2005	2	19548.49259	27559.748	21789.66445	25129.80125	22130.01663	85813.81206	79790.26
106	200503	2005	3	22739.31443	19548.493	27559.74848	21789.66445	25129.80125	93603.61985	85813.81
107	200504	2005	4	15783.8765	22739.314	19548.49259	27559.74848	21789.66445	81917.16074	93603.62
108	200601	2006	1	25033.42556	15783.877	22739.31443	19548.49259	27559.74848	84891.37086	81917.16

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
109	200602	2006	2	21952.99205	25033.426	15783.8765	22739.31443	19548.49259	76961.03129	84891.37
110	200603	2006	3	18624.52322	21952.992	25033.42556	15783.8765	22739.31443	62493.49984	76961.03
111	200604	2006	4	22764.1772	18624.523	21952.99205	25033.42556	15783.8765	53017.00782	62493.5
112	200701	2007	1	21849.83867	22764.177	18624.52322	21952.99205	25033.42556	49090.64446	53017.01
113	200702	2007	2	19207.34564	21849.839	22764.1772	18624.52322	21952.99205	47171.20501	49090.64
114	200703	2007	3	19235.55443	19207.346	21849.83867	22764.1772	18624.52322	34659.35502	47171.21
115	200704	2007	4	17700.48264	19235.554	19207.34564	21849.83867	22764.1772	25966.84852	34659.36
116	200801	2008	1	17599.18453	17700.483	19235.55443	19207.34564	21849.83867	24097.91667	25966.85
117	200802	2008	2	17751.77436	17599.185	17700.48264	19235.55443	19207.34564	21915.88673	24097.92
118	200803	2008	3	9039.66712	17751.774	17599.18453	17700.48264	19235.55443	17584.21906	21915.89
119	200804	2008	4	10039.18121	9039.6671	17751.77436	17599.18453	17700.48264	13975.82455	17584.22
120	200901	2009	1	9241.58876	10039.181	9039.66712	17751.77436	17599.18453	11113.2261	13975.82
121	200902	2009	2	6264.82913	9241.5888	10039.18121	9039.66712	17751.77436	16181.89595	11113.23
122	200903	2009	3	4013.25244	6264.8291	9241.58876	10039.18121	9039.66712	16634.26267	16181.9
123	200904	2009	4	3102.9287	4013.2524	6264.82913	9241.58876	10039.18121	15636.69952	16634.26
124	201001	2010	1	5560.83419	3102.9287	4013.25244	6264.82913	9241.58876	16947.90628	15636.7
125	201002	2010	2	4175.39695	5560.8342	3102.9287	4013.25244	6264.82913	14033.07554	16947.91
126	201003	2010	3	10973.71628	4175.397	5560.83419	3102.9287	4013.25244	13696.62328	14033.08
127	201004	2010	4	6502.53362	10973.716	4175.39695	5560.83419	3102.9287	15847.43737	13696.62
128	201101	2011	1	4651.68846	6502.5336	10973.71628	4175.39695	5560.83419	14952.668	15847.44
129	201102	2011	2	16858.97801	4651.6885	6502.53362	10973.71628	4175.39695	12307.62464	14952.67
130	201103	2011	3	13225.38666	16858.978	4651.68846	6502.53362	10973.71628	11220.87581	12307.62
131	201104	2011	4	11754.9059	13225.387	16858.97801	4651.68846	6502.53362	11832.17184	11220.88
132	201201	2012	1	12522.1812	11754.906	13225.38666	16858.97801	4651.68846	12361.1151	11832.17
133	201202	2012	2	18517.71771	12522.181	11754.9059	13225.38666	16858.97801	13035.16788	12361.12
134	201203	2012	3	13623.15528	18517.718	12522.1812	11754.9059	13225.38666	14904.89683	13035.17
135	201204	2012	4	12872.80708	13623.155	18517.71771	12522.1812	11754.9059	19073.21659	14904.9
136	201301	2013	1	18510.47369	12872.807	13623.15528	18517.71771	12522.1812	19547.93734	19073.22
137	201302	2013	2	15949.82511	18510.474	12872.80708	13623.15528	18517.71771	18271.83258	19547.94
138	201303	2013	3	17156.06076	15949.825	18510.47369	12872.80708	13623.15528	20403.39279	18271.83
139	201304	2013	4	21542.52762	17156.061	15949.82511	18510.47369	12872.80708	22383.63489	20403.39
140	201401	2014	1	21089.97961	21542.528	17156.06076	15949.82511	18510.47369	22372.62498	22383.63
141	201402	2014	2	22241.02817	21089.98	21542.52762	17156.06076	15949.82511	25858.72031	22372.62
142	201403	2014	3	22189.92804	22241.028	21089.97961	21542.52762	17156.06076	29712.68729	25858.72
143	201404	2014	4	24665.41159	22189.928	22241.02817	21089.97961	21542.52762	32840.14495	29712.69
144	201501	2015	1	26011.28471	24665.412	22189.92804	22241.02817	21089.97961	36340.94713	32840.14
145	201502	2015	2	27666.93414	26011.285	24665.41159	22189.92804	22241.02817	40550.4618	36340.95
146	201503	2015	3	29381.7514	27666.934	26011.28471	24665.41159	22189.92804	44965.58043	40550.46
147	201504	2015	4	31320.34926	29381.751	27666.93414	26011.28471	24665.41159	48200.02818	44965.58

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
148	201601	2016	1	31569.93335	31320.349	29381.7514	27666.93414	26011.28471	51330.30752	48200.03
149	201602	2016	2	31564.33147	31569.933	31320.34926	29381.7514	27666.93414	53881.53419	51330.31
150	201603	2016	3	31687.57132	31564.331	31569.93335	31320.34926	29381.7514	55896.52516	53881.53
151	201604	2016	4	31872.10915	31687.571	31564.33147	31569.93335	31320.34926	56846.14115	55896.53
152	201701	2017	1	32756.29534	31872.109	31687.57132	31564.33147	31569.93335	57830.04346	56846.14
153	201702	2017	2	32543.38278	32756.295	31872.10915	31687.57132	31564.33147	57508.9618	57830.04
154	201703	2017	3	32358.10766	32543.383	32756.29534	31872.10915	31687.57132	57085.5764	57508.96
155	201704	2017	4	32605.91295	32358.108	32543.38278	32756.29534	31872.10915	57028.56651	57085.58
156	201801	2018	1	33276.77334	32605.913	32358.10766	32543.38278	32756.29534	56771.92475	57028.57
157	201802	2018	2	33261.61561	33276.773	32605.91295	32358.10766	32543.38278	56508.10441	56771.92
158	201803	2018	3	33931.16985	33261.616	33276.77334	32605.91295	32358.10766	56538.64417	56508.1
159	201804	2018	4	35251.45864	33931.17	33261.61561	33276.77334	32605.91295	56393.2031	56538.64
160	201901	2019	1	35655.68877	35251.459	33931.16985	33261.61561	33276.77334	56369.53736	56393.2
161	201902	2019	2	35659.38839	35655.689	33931.16985	33261.61561	33261.61561	56011.1686	56369.54
162	201903	2019	3	35934.76451	35659.388	35251.45864	33931.16985	33931.16985	56063.74091	56011.17
163	201904	2019	4	35971.27502	35934.765	35655.68877	35251.45864	33931.16985	56083.65372	56063.74
164	202001	2020	1	35499.3141	35971.275	35934.76451	35659.38839	35251.45864	55725.96712	56083.65
165	202002	2020	2	35192.00181	35499.314	35971.27502	35934.76451	35659.38839	55229.27893	55725.97
166	202003	2020	3	34961.74359	35192.002	35499.3141	35971.27502	35934.76451	54957.55431	55229.28
167	202004	2020	4	34732.54532	34961.744	35192.00181	35499.3141	35971.27502	54472.35255	54957.55
168	202101	2021	1	34051.6318	34732.545	34961.74359	35192.00181	35499.3141	53981.02823	54472.35
169	202102	2021	2	33928.96138	34051.632	34732.54532	34961.74359	35192.00181	53307.66235	53981.03
170	202103	2021	3	33971.43628	33928.961	34051.6318	34732.54532	34961.74359	52883.59174	53307.66
171	202104	2021	4	33798.5629	33971.436	33928.96138	34051.6318	34732.54532	52408.8878	52883.59
172	202201	2022	1	33834.13198	33798.563	33971.43628	33928.96138	34051.6318	52043.40046	52408.89
173	202202	2022	2	33784.72249	33834.132	33798.5629	33971.43628	33928.96138	51660.6168	52043.4
174	202203	2022	3	33934.0355	33784.722	33834.13198	33798.5629	33971.43628	51395.27234	51660.62
175	202204	2022	4	33823.89721	33934.035	33784.72249	33834.13198	33971.43628	51280.90455	51395.27
176	202301	2023	1	33942.57795	33823.897	33934.0355	33784.72249	33834.13198	51375.96186	51280.9
177	202302	2023	2	33843.17858	33942.578	33823.89721	33934.0355	33784.72249	51141.39451	51375.96
178	202303	2023	3	34146.80164	33843.179	33942.57795	33823.89721	33934.0355	50907.32862	51141.39
179	202304	2023	4	34316.77401	34146.802	33843.17858	33942.57795	33823.89721	50472.80129	50907.33
180	202401	2024	1	34784.87758	34316.774	34146.80164	33843.17858	33942.57795	50427.41783	50472.8
181	202402	2024	2	35425.45367	34784.878	34316.77401	34146.80164	33843.17858	50305.37268	50427.42
182	202403	2024	3	36093.74857	35425.454	34784.87758	34316.77401	34146.80164	50021.21006	50305.37
183	202404	2024	4	36519.8269	36093.749	35425.45367	34784.87758	34316.77401	50265.13291	50021.21
184	202501	2025	1	37021.28795	36519.827	36093.74857	35425.45367	34784.87758	50676.36134	50265.13
185	202502	2025	2	37237.9848	37021.288	36519.8269	36093.74857	35425.45367	50903.19373	50676.36
186	202503	2025	3	37602.72898	37237.985	37021.28795	36519.8269	36093.74857	50987.39411	50903.19

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
187	202504	2025	4	37984.37159	37602.729	37237.9848	37021.28795	36519.8269	51028.01945	50987.39
188	202601	2026	1	38538.62422	37984.372	37602.72898	37237.9848	37021.28795	50994.9299	51028.02
189	202602	2026	2	38686.67821	38538.624	37984.37159	37602.72898	37237.9848	50739.0818	50994.93
190	202603	2026	3	38842.42426	38686.678	38538.62422	37984.37159	37602.72898	50560.71944	50739.08
191	202604	2026	4	38800.77505	38842.424	38686.67821	38538.62422	37984.37159	50154.55894	50560.72
192	202701	2027	1	38900.22549	38800.775	38842.42426	38686.67821	38538.62422	50318.61399	50154.56
193	202702	2027	2	38846.58209	38900.225	38800.77505	38842.42426	38686.67821	50045.29949	50318.61
194	202703	2027	3	38717.70124	38846.582	38900.22549	38800.77505	38842.42426	49489.05913	50045.3
195	202704	2027	4	38341.24067	38717.701	38846.58209	38900.22549	38800.77505	48899.77431	49489.06
196	202801	2028	1	38922.8924	38341.241	38717.70124	38846.58209	38900.22549	48454.2958	48899.77
197	202802	2028	2	39289.51171	38922.892	38341.24067	38717.70124	38846.58209	48031.41157	48454.3
198	202803	2028	3	39543.16886	39289.512	38922.8924	38341.24067	38717.70124	47578.79069	48031.41
199	202804	2028	4	39561.03731	39543.169	39289.51171	38922.8924	38341.24067	47203.63119	47578.79
200	202901	2029	1	40006.39173	39561.037	39543.16886	39289.51171	38922.8924	47371.14944	47203.63
201	202902	2029	2	40152.34167	40006.392	39561.03731	39543.16886	39289.51171	47466.19077	47371.15
202	202903	2029	3	40159.58391	40152.342	40006.39173	39561.03731	39543.16886	47528.33869	47466.19
203	202904	2029	4	40066.92761	40159.584	40152.34167	40006.39173	39561.03731	47580.43072	47528.34
204	203001	2030	1	40792.5498	40066.928	40159.58391	40152.34167	40006.39173	47499.38405	47580.43
205	203002	2030	2	40988.71943	40792.55	40066.92761	40159.58391	40152.34167	47399.9578	47499.38
206	203003	2030	3	40880.89381	40988.719	40792.5498	40066.92761	40159.58391	47639.92527	47399.96
207	203004	2030	4	40922.79588	40880.894	40988.71943	40066.92761	40066.92761	47718.65421	47639.93
208	203101	2031	1	41310.22575	40922.796	40880.89381	40988.71943	40792.5498	47661.83191	47718.65
209	203102	2031	2	40858.30054	41310.226	40922.79588	40880.89381	40988.71943	46880.62142	47661.83
210	203103	2031	3	40707.46872	40858.301	41310.22575	40922.79588	40880.89381	46327.72724	46880.62
211	203104	2031	4	40778.50178	40707.469	40858.30054	41310.22575	40922.79588	45968.8905	46327.73
212	203201	2032	1	41172.97314	40778.502	40707.46872	40858.30054	41310.22575	45689.43741	45968.89
213	203202	2032	2	40670.85264	41172.973	40778.50178	40707.46872	40858.30054	44987.26343	45689.44
214	203203	2032	3	40474.43592	40670.853	41172.97314	40778.50178	40707.46872	44459.15804	44987.26
215	203204	2032	4	40524.53733	40474.436	40670.85264	41172.97314	40778.50178	44355.83323	44459.16
216	203301	2033	1	40945.26981	40524.537	40474.43592	40670.85264	41172.97314	44602.23165	44355.83
217	203302	2033	2	40587.98941	40945.27	40524.53733	40474.43592	40670.85264	44638.78063	44602.23
218	203303	2033	3	40439.48051	40587.989	40945.26981	40524.53733	40474.43592	44702.08498	44638.78
219	203304	2033	4	40518.5508	40439.481	40587.98941	40945.26981	40524.53733	44938.58947	44702.08
220	203401	2034	1	40978.87342	40518.551	40439.48051	40587.98941	40945.26981	45192.18789	44938.59
221	203402	2034	2	40534.16958	40978.873	40518.5508	40439.48051	40587.98941	45025.25372	45192.19
222	203403	2034	3	40767.00717	40534.17	40978.87342	40518.5508	40439.48051	44982.59684	45025.25
223	203404	2034	4	40758.18777	40767.007	40534.16958	40978.87342	40518.5508	45311.01616	44982.6
224	203501	2035	1	41115.38371	40758.188	40767.00717	40534.16958	40978.87342	45760.13902	45311.02
225	203502	2035	2	40667.30036	41115.384	40758.18777	40767.00717	40534.16958	45901.71257	45760.14

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
226	203503	2035	3	40803.83744	40667.3	41115.38371	40758.18777	40767.00717	45997.27254	45901.71
227	203504	2035	4	40757.54432	40803.837	40667.30036	41115.38371	40758.18777	46162.47834	45997.27
228	203601	2036	1	41145.75443	40757.544	40803.83744	40667.30036	41115.38371	46174.93893	46162.48
229	203602	2036	2	40711.02226	41145.754	40757.54432	40803.83744	40667.30036	45864.00793	46174.94
230	203603	2036	3	40918.52473	40711.022	41145.75443	40757.54432	40803.83744	45613.88708	45864.01
231	203604	2036	4	40917.11513	40918.525	40711.02226	41145.75443	40757.54432	45623.99982	45613.89
232	203701	2037	1	41217.1563	40917.115	40918.52473	40711.02226	41145.75443	45830.48526	45624
233	203702	2037	2	41068.57652	41217.156	40917.11513	40918.52473	40711.02226	45926.58296	45830.49
234	203703	2037	3	41164.867	41068.577	41217.1563	40917.11513	40918.52473	46106.93194	45926.58
235	203704	2037	4	41041.47744	41164.867	41068.57652	41217.1563	40917.11513	46311.14282	46106.93
236	203801	2038	1	41198.45396	41041.477	41164.867	41068.57652	41217.1563	46581.56514	46311.14
237	203802	2038	2	41062.02143	41198.454	41041.47744	41164.867	41068.57652	46526.20489	46581.57
238	203803	2038	3	41039.65746	41062.021	41198.45396	41041.47744	41164.867	46412.05275	46526.2
239	203804	2038	4	40928.08066	41039.657	41062.02143	41198.45396	41041.47744	46359.09843	46412.05
240	203901	2039	1	41097.83731	40928.081	41039.65746	41062.02143	41198.45396	46415.2983	46359.1
241	203902	2039	2	40967.27373	41097.837	40928.08066	41039.65746	41062.02143	46138.49262	46415.3
242	203903	2039	3	40956.88931	40967.274	41097.83731	40928.08066	41039.65746	45966.5962	46138.49
243	203904	2039	4	40770.98707	40956.889	40967.27373	41097.83731	40928.08066	46087.03909	45966.6
244	204001	2040	1	41119.6592	40770.987	40956.88931	40967.27373	41097.83731	46405.35574	46087.04
245	204002	2040	2	41104.51534	41119.659	40770.98707	40956.88931	40967.27373	46566.24978	46405.36
246	204003	2040	3	40430.59639	41104.515	41119.6592	40770.98707	40956.88931	46696.86433	46566.25
247	204004	2040	4	41318.74535	40430.596	41104.51534	41119.6592	40770.98707	46890.22753	46696.86
248	204101	2041	1	41543.75713	41318.745	40430.59639	41104.51534	41119.6592	47100.47399	46890.23
249	204102	2041	2	41641.17814	41543.757	41318.74535	40430.59639	41104.51534	47053.86468	47100.47
250	204103	2041	3	41778.77703	41641.178	41543.75713	41318.74535	40430.59639	46976.68293	47053.86
251	204104	2041	4	41909.92946	41778.777	41641.17814	41543.75713	41318.74535	46889.72985	46976.68

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
1	197902	1979	2				113326.2667			
2	197903	1979	3				106371.2003	113326.2667		
3	197904	1979	4	68518.25334			98659.24513	106371.2003	113326.2667	
4	198001	1980	1	64910.01276	68518.253		79435.86732	98659.24513	106371.2003	113326.3
5	198002	1980	2	54917.23079	64910.013	68518.25334	57777.92641	79435.86732	98659.24513	106371.2
6	198003	1980	3	45762.28758	54917.231	64910.01276	69064.86389	57777.92641	79435.86732	98659.25
7	198004	1980	4	32749.31115	45762.288	54917.23079	77693.17387	69064.86389	57777.92641	79435.87
8	198101	1981	1	41728.36932	32749.311	45762.28758	64524.39663	77693.17387	69064.86389	57777.93

9	198102	1981	2	46676.80278	41728.369	32749.31115	66142.00608	64524.39663	77693.17387	69064.86
10	198103	1981	3	39574.02365	46676.803	41728.36932	41860.4411	66142.00608	64524.39663	77693.17
11	198104	1981	4	41776.7275	39574.024	46676.80278	38100.82161	41860.4411	66142.00608	64524.4
12	198201	1982	1	23206.81937	41776.728	39574.02365	33654.27635	38100.82161	41860.4411	66142.01
13	198202	1982	2	21077.65931	23206.819	41776.7275	37238.55243	33654.27635	38100.82161	41860.44
14	198203	1982	3	22277.80605	21077.659	23206.81937	40007.34935	37238.55243	33654.27635	38100.82
15	198204	1982	4	22068.61295	22277.806	21077.65931	45576.22398	40007.34935	37238.55243	33654.28
16	198301	1983	1	23307.88811	22068.613	22277.80605	65336.1753	45576.22398	40007.34935	37238.55
17	198302	1983	2	30486.66218	23307.888	22068.61295	83919.65811	65336.1753	45576.22398	40007.35
18	198303	1983	3	41957.6425	30486.662	23307.88811	91985.50638	83919.65811	65336.1753	45576.22
19	198304	1983	4	55111.5887	41957.643	30486.66218	99686.25105	91985.50638	83919.65811	65336.18
20	198401	1984	1	56643.00942	55111.589	41957.6425	133630.5523	99686.25105	91985.50638	83919.66
21	198402	1984	2	62425.00937	56643.009	55111.5887	113475.3711	133630.5523	99686.25105	91985.51
22	198403	1984	3	72460.155	62425.009	56643.00942	106085.8851	113475.3711	133630.5523	99686.25
23	198404	1984	4	62754.10599	72460.155	62425.00937	110022.9945	106085.8851	113475.3711	133630.6
24	198501	1985	1	52840.16114	62754.106	72460.155	136819.9697	110022.9945	106085.8851	113475.4
25	198502	1985	2	56294.39311	52840.161	62754.10599	128659.8637	136819.9697	110022.9945	106085.9
26	198503	1985	3	68235.00075	56294.393	52840.16114	132906.04	128659.8637	136819.9697	110023
27	198504	1985	4	59737.13249	68235.001	56294.39311	152780.6011	132906.04	128659.8637	136820
28	198601	1986	1	58446.64816	59737.132	68235.00075	160778.0352	152780.6011	132906.04	128659.9
29	198602	1986	2	62241.34532	58446.648	59737.13249	166989.4131	160778.0352	152780.6011	132906
30	198603	1986	3	69343.36266	62241.345	58446.64816	148558.6223	166989.4131	160778.0352	152780.6
31	198604	1986	4	76234.99228	69343.363	62241.34532	188612.7458	148558.6223	166989.4131	160778
32	198701	1987	1	70494.17561	76234.992	69343.36266	182077.4348	188612.7458	148558.6223	166989.4
33	198702	1987	2	85702.05245	70494.176	76234.99228	143170.9957	182077.4348	188612.7458	148558.6
34	198703	1987	3	93748.39487	85702.052	70494.17561	142016.8496	143170.9957	182077.4348	188612.7
35	198704	1987	4	73633.53179	93748.395	85702.05245	130554.5774	142016.8496	143170.9957	182077.4
36	198801	1988	1	72942.38849	73633.532	93748.39487	145271.8931	130554.5774	142016.8496	143171
37	198802	1988	2	70428.57142	72942.388	73633.53179	133118.1668	145271.8931	130554.5774	142016.8
38	198803	1988	3	90520.81689	70428.571	72942.38849	139041.9898	133118.1668	145271.8931	130554.6
39	198804	1988	4	83024.045	90520.817	70428.57142	152392.5672	139041.9898	133118.1668	145271.9
40	198901	1989	1	89657.2361	83024.045	90520.81689	139163.213	152392.5672	139041.9898	133118.2
41	198902	1989	2	96932.73572	89657.236	83024.045	135812.3208	139163.213	152392.5672	139042
42	198903	1989	3	90057.56226	96932.736	89657.2361	127900.7812	135812.3208	139163.213	152392.6
43	198904	1989	4	92820.76544	90057.562	96932.73572	129173.2991	127900.7812	135812.3208	139163.2
44	199001	1990	1	89624.21432	92820.765	90057.56226	125439.9466	129173.2991	127900.7812	135812.3
45	199002	1990	2	89669.27671	89624.214	92820.76544	91702.62897	125439.9466	129173.2991	127900.8
46	199003	1990	3	80090.42144	89669.277	89624.21432	81189.98676	91702.62897	125439.9466	129173.3
47	199004	1990	4	56586.4542	80090.421	89669.27671	60521.10435	81189.98676	91702.62897	125439.9

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
48	199101	1991	1	49079.14466	56586.454	80090.42144	46400.62811	60521.10435	81189.98676	91702.63
49	199102	1991	2	40147.93447	49079.145	56586.4542	59269.19691	46400.62811	60521.10435	81189.99
50	199103	1991	3	33439.52342	40147.934	49079.14466	57010.95573	59269.19691	46400.62811	60521.1
51	199104	1991	4	41986.13461	33439.523	40147.93447	56137.89632	57010.95573	59269.19691	46400.63
52	199201	1992	1	40378.31071	41986.135	33439.52342	54059.50865	56137.89632	57010.95573	59269.2
53	199202	1992	2	40231.01488	40378.311	41986.13461	53135.67107	54059.50865	56137.89632	57010.96
54	199203	1992	3	42207.11616	40231.015	40378.31071	49813.79689	53135.67107	54059.50865	56137.9
55	199204	1992	4	43960.9033	42207.116	40231.01488	51095.18886	49813.79689	53135.67107	54059.51
56	199301	1993	1	40259.95023	43960.903	42207.11616	45495.5885	51095.18886	49813.79689	53135.67
57	199302	1993	2	41932.31231	40259.95	43960.9033	48095.16782	45495.5885	51095.18886	49813.8
58	199303	1993	3	37619.82089	41932.312	40259.95023	40121.53983	48095.16782	45495.5885	51095.19
59	199304	1993	4	41330.08532	37619.821	41932.31231	40883.44975	40121.53983	48095.16782	45495.59
60	199401	1994	1	34341.67323	41330.085	37619.82089	49737.06764	40883.44975	40121.53983	48095.17
61	199402	1994	2	37631.34237	34341.673	41330.08532	48190.617	49737.06764	40883.44975	40121.54
62	199403	1994	3	43817.32103	37631.342	34341.67323	51920.46692	48190.617	49737.06764	40883.45
63	199404	1994	4	40869.94341	43817.321	37631.34237	49100.08635	51920.46692	48190.617	49737.07
64	199501	1995	1	42009.25714	40869.943	3817.32103	43622.64438	49100.08635	51920.46692	48190.62
65	199502	1995	2	36895.3248	42009.257	40869.94341	40152.55747	43622.64438	49100.08635	51920.47
66	199503	1995	3	35178.40195	36895.325	42009.25714	43277.03935	40152.55747	43622.64438	49100.09
67	199504	1995	4	33240.8534	35178.402	36895.3248	42242.9968	43277.03935	40152.55747	43622.64
68	199601	1996	1	36244.77905	33240.853	35178.40195	48097.72489	42242.9968	43277.03935	40152.56
69	199602	1996	2	35369.81743	36244.779	33240.8534	47865.00325	42242.9968	43277.03935	40152.56
70	199603	1996	3	38633.97964	35369.817	36244.77905	42859.11847	48097.72489	42242.9968	43277.04
71	199604	1996	4	38329.13939	38633.98	35369.81743	41589.13764	47865.00325	48097.72489	42243
72	199701	1997	1	37391.8262	38329.139	38633.97964	49746.79859	42859.11847	47865.00325	48097.72
73	199702	1997	2	33545.94544	37391.826	38329.13939	50996.00547	42859.11847	47865.00325	48097.72
74	199703	1997	3	43333.95026	33545.945	37391.8262	45977.87499	50996.00547	49746.79859	41589.14
75	199704	1997	4	38919.23002	43333.95	33545.94544	54672.68773	45977.87499	50996.00547	49746.8
76	199801	1998	1	38503.45071	38919.23	43333.95026	51242.2625	54672.68773	45977.87499	50996.01
77	199802	1998	2	44298.14993	38503.451	38919.23002	51242.2625	51242.2625	54672.68773	45977.87
78	199803	1998	3	44195.86365	44298.15	38503.45071	57725.65413	51242.2625	51242.2625	54672.69
79	199804	1998	4	43575.24988	44195.864	44298.14993	54089.05382	57725.65413	51242.2625	54672.69
80	199901	1999	1	47326.62852	43575.25	44195.86365	59850.67927	54089.05382	57725.65413	54194.25
81	199902	1999	2	43504.09521	47326.629	43575.24988	56470.46325	59850.67927	54089.05382	57725.65
82	199903	1999	3	47206.1354	43504.095	47326.62852	63134.67956	56470.46325	59850.67927	54089.05
83	199904	1999	4	47999.24649	47206.135	43504.09521	60798.601	63134.67956	56470.46325	59850.68
84	200001	2000	1	49165.18169	47999.246	47206.1354	66039.80531	63134.67956	56470.46325	59850.68
85	200002	2000	2	47007.23978	49165.182	47999.24649	54271.56482	66039.80531	63134.67956	56470.46
86	200003	2000	3	48660.72957	47007.24	49165.18169	64121.75247	54271.56482	66039.80531	60798.6

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
87	200004	2000	4	37232.96638	48660.73	47007.23978	62448.85617	64121.75247	54271.56482	66039.81
88	200101	2001	1	44817.17154	37232.966	48660.72957	69754.58881	62448.85617	64121.75247	54271.56
89	200102	2001	2	51901.68925	44817.172	37232.96638	69618.72717	69754.58881	62448.85617	64121.75
90	200103	2001	3	53249.06231	51901.689	44817.17154	63919.67893	69618.72717	69754.58881	62448.86
91	200104	2001	4	53544.00998	53249.062	51901.68925	66325.75818	63919.67893	69618.72717	69754.59
92	200201	2002	1	49637.27174	53544.01	53249.06231	74946.59925	66325.75818	63919.67893	69618.73
93	200202	2002	2	53131.00661	49637.272	53544.00998	69831.85149	74946.59925	66325.75818	63919.68
94	200203	2002	3	61032.27644	53131.007	49637.27174	75712.25549	69831.85149	74946.59925	66325.76
95	200204	2002	4	57453.57714	61032.276	53131.00661	88566.46184	75712.25549	69831.85149	74946.6
96	200301	2003	1	62596.47844	57453.577	61032.27644	92428.42808	88566.46184	75712.25549	69831.85
97	200302	2003	2	66613.28857	62596.478	57453.57714	99307.26886	92428.42808	88566.46184	75712.26
98	200303	2003	3	72660.54551	66613.289	62596.47844	81293.05068	99307.26886	92428.42808	88566.46
99	200304	2003	4	77011.8652	72660.546	66613.28857	100652.2129	81293.05068	99307.26886	92428.43
100	200401	2004	1	64647.59896	77011.865	72660.54551	103215.8214	100652.2129	81293.05068	99307.27
101	200402	2004	2	80965.41311	64647.599	77011.8652	103391.5294	103215.8214	100652.2129	81293.05
102	200403	2004	3	82059.1731	80965.413	64647.59896	105549.1109	103391.5294	103215.8214	100652.2
103	200404	2004	4	81261.51279	82059.173	80965.41311	102425.8299	105549.1109	103391.5294	103215.8
104	200501	2005	1	80419.30961	81261.513	82059.1731	107350.0094	102425.8299	105549.1109	103391.5
105	200502	2005	2	80636.16549	80419.31	81261.51279	105362.3047	107350.0094	102425.8299	105549.1
106	200503	2005	3	79790.26088	80636.165	80419.30961	116342.9343	105362.3047	107350.0094	102425.8
107	200504	2005	4	85813.81206	79790.261	80636.16549	97701.03724	116342.9343	105362.3047	107350
108	200601	2006	1	93603.61985	85813.812	79790.26088	109924.7964	97701.03724	116342.9343	105362.3
109	200602	2006	2	81917.16074	93603.62	85813.81206	98914.02334	109924.7964	97701.03724	116342.9
110	200603	2006	3	84891.37086	81917.161	93603.61985	81118.02306	98914.02334	109924.7964	97701.04
111	200604	2006	4	76961.03129	84891.371	81917.16074	75781.18502	81118.02306	98914.02334	109924.8
112	200701	2007	1	62493.49984	76961.031	84891.37086	70940.48313	75781.18502	81118.02306	98914.02
113	200702	2007	2	53017.00782	62493.5	76961.03129	66378.55065	70940.48313	75781.18502	81118.02
114	200703	2007	3	49090.64446	53017.008	62493.49984	53894.90945	66378.55065	70940.48313	75781.19
115	200704	2007	4	47171.20501	49090.644	53017.00782	43667.33116	53894.90945	66378.55065	70940.48
116	200801	2008	1	34659.35502	47171.205	49090.64446	41697.1012	43667.33116	53894.90945	66378.55
117	200802	2008	2	25966.84852	34659.355	47171.20501	39667.66109	41697.1012	43667.33116	53894.91
118	200803	2008	3	24097.91667	25966.849	34659.35502	26623.88618	39667.66109	41697.1012	43667.33
119	200804	2008	4	21915.88673	24097.917	25966.84852	24015.00576	26623.88618	39667.66109	41697.1
120	200901	2009	1	17584.21906	21915.887	24097.91667	20354.81486	24015.00576	26623.88618	39667.66
121	200902	2009	2	13975.82455	17584.219	21915.88673	22446.72508	20354.81486	24015.00576	26623.89
122	200903	2009	3	11113.2261	13975.825	17584.21906	20647.51511	22446.72508	20354.81486	24015.01
123	200904	2009	4	16181.89595	11113.226	13975.82455	18739.62822	20647.51511	22446.72508	20354.81
124	201001	2010	1	16634.26267	16181.896	11113.2261	22508.74047	18739.62822	20647.51511	22446.73
125	201002	2010	2	15636.69952	16634.263	16181.89595	18208.47249	22508.74047	18739.62822	20647.52

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
126	201003	2010	3	16947.90628	15636.7	16634.26267	24670.33956	18208.47249	22508.74047	18739.63
127	201004	2010	4	14033.07554	16947.906	15636.69952	22349.97099	24670.33956	18208.47249	22508.74
128	201101	2011	1	13696.62328	14033.076	16947.90628	19604.35646	22349.97099	24670.33956	18208.47
129	201102	2011	2	15847.43737	13696.623	14033.07554	29166.60265	19604.35646	22349.97099	24670.34
130	201103	2011	3	14952.668	15847.437	13696.62328	24446.26247	29166.60265	19604.35646	22349.97
131	201104	2011	4	12307.62464	14952.668	15847.43737	23587.07774	24446.26247	29166.60265	19604.36
132	201201	2012	1	11220.87581	12307.625	14952.668	24883.2963	23587.07774	24446.26247	29166.6
133	201202	2012	2	11832.17184	11220.876	12307.62464	31552.88559	24883.2963	23587.07774	24446.26
134	201203	2012	3	12361.1151	11832.172	11220.87581	28528.05211	31552.88559	24883.2963	23587.08
135	201204	2012	4	13035.16788	12361.115	11832.17184	31946.02367	28528.05211	31552.88559	24883.3
136	201301	2013	1	14904.89683	13035.168	12361.1151	38058.41103	31946.02367	28528.05211	31552.89
137	201302	2013	2	19073.21659	14904.897	13035.16788	34221.65769	38058.41103	31946.02367	28528.05
138	201303	2013	3	19547.93734	19073.217	14904.89683	37559.45355	34221.65769	38058.41103	31946.02
139	201304	2013	4	18271.83258	19547.937	19073.21659	43926.16251	37559.45355	34221.65769	38058.41
140	201401	2014	1	20403.39279	18271.833	19547.93734	43462.60459	43926.16251	37559.45355	34221.66
141	201402	2014	2	22383.63489	20403.393	18271.83258	48099.74848	43462.60459	43926.16251	37559.45
142	201403	2014	3	22372.62498	22383.635	20403.39279	51902.61533	48099.74848	43462.60459	43926.16
143	201404	2014	4	25858.72031	22372.625	22383.63489	57505.55654	51902.61533	48099.74848	43462.6
144	201501	2015	1	29712.68729	25858.72	22372.62498	62352.23184	57505.55654	51902.61533	48099.75
145	201502	2015	2	32840.14495	29712.687	25858.72031	68217.39594	62352.23184	57505.55654	51902.62
146	201503	2015	3	36340.94713	32840.145	29712.68729	74347.33183	68217.39594	62352.23184	57505.56
147	201504	2015	4	40550.4618	36340.947	32840.14495	79520.37744	74347.33183	68217.39594	62352.23
148	201601	2016	1	44965.58043	40550.462	36340.94713	82900.24087	79520.37744	74347.33183	68217.4
149	201602	2016	2	48200.02818	44965.58	40550.4618	85445.86566	82900.24087	79520.37744	74347.33
150	201603	2016	3	51330.30752	48200.028	44965.58043	87584.09648	85445.86566	82900.24087	79520.38
151	201604	2016	4	53881.53419	51330.308	48200.02818	88718.2503	87584.09648	85445.86566	82900.24
152	201701	2017	1	55896.52516	53881.534	51330.30752	90586.3388	88718.2503	87584.09648	85445.87
153	201702	2017	2	56846.14115	55896.525	53881.53419	90052.34458	90586.3388	88718.2503	87584.1
154	201703	2017	3	57830.04346	56846.141	55896.52516	89443.68406	90052.34458	90586.3388	88718.25
155	201704	2017	4	57508.9618	57830.043	56846.14115	89634.47946	89443.68406	90052.34458	90586.34
156	201801	2018	1	57085.5764	57508.962	57830.04346	90048.69809	89634.47946	89443.68406	90052.34
157	201802	2018	2	57028.56651	57085.576	57508.9618	89769.72002	90048.69809	89634.47946	89443.68
158	201803	2018	3	56771.92475	57028.567	57085.5764	90469.81402	89769.72002	90048.69809	89634.48
159	201804	2018	4	56508.10441	56771.925	57028.56651	91644.66174	90469.81402	89769.72002	90048.7
160	201901	2019	1	56538.64417	56508.104	56771.92475	92025.22613	90469.81402	89769.72002	90048.7
161	201902	2019	2	56393.2031	56538.644	56508.10441	91670.55699	92025.22613	91644.66174	90469.72
162	201903	2019	3	56369.53736	56393.203	56538.64417	91998.50542	92025.22613	91644.66174	90469.81
163	201904	2019	4	56011.1686	56369.537	56393.2031	92054.92874	91998.50542	91670.55699	92025.23
164	202001	2020	1	56063.74091	56011.169	56369.53736	91225.28122	92054.92874	91998.50542	91670.56

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
165	202002	2020	2	56083.65372	56063.741	56011.1686	90421.28074	91225.28122	92054.92874	91998.51
166	202003	2020	3	55725.96712	56083.654	56063.74091	89919.2979	90421.28074	91225.28122	92054.93
167	202004	2020	4	55229.27893	55725.967	56083.65372	89204.89787	89919.2979	90421.28074	91225.28
168	202101	2021	1	54957.55431	55229.279	55725.96712	88032.66003	89204.89787	89919.2979	90421.28
169	202102	2021	2	54472.35255	54957.554	55229.27893	87236.62373	88032.66003	89204.89787	89919.3
170	202103	2021	3	53981.02823	54472.353	54957.55431	86855.02802	87236.62373	88032.66003	89204.9
171	202104	2021	4	53307.66235	53981.028	54472.35255	86207.4507	86855.02802	87236.62373	88032.66
172	202201	2022	1	52883.59174	53307.662	53981.02823	85877.53244	86207.4507	86855.02802	87236.62
173	202202	2022	2	52408.8878	52883.592	53307.66235	85445.33929	85877.53244	86207.4507	86855.03
174	202203	2022	3	52043.40046	52408.888	52883.59174	85329.30784	85445.33929	85877.53244	86207.45
175	202204	2022	4	51660.6168	52043.4	52408.8878	85104.80176	85329.30784	85445.33929	85877.53
176	202301	2023	1	51395.27234	51660.617	52043.40046	85318.53981	85104.80176	85329.30784	85445.34
177	202302	2023	2	51280.90455	51395.272	51660.6168	84984.57309	85318.53981	85104.80176	85329.31
178	202303	2023	3	51375.96186	51280.905	51395.27234	85054.13026	84984.57309	85104.80176	85329.31
179	202304	2023	4	51141.39451	51375.962	51280.90455	84789.5753	85054.13026	85104.80176	85104.8
180	202401	2024	1	50907.32862	51141.395	51375.96186	85212.29541	84789.5753	85054.13026	85318.54
181	202402	2024	2	50472.80129	50907.329	51141.39451	85730.82635	85212.29541	85054.13026	84984.57
182	202403	2024	3	50427.41783	50472.801	50907.32862	86114.95863	85730.82635	85212.29541	85054.13
183	202404	2024	4	50305.37268	50427.418	50472.80129	86784.95981	86114.95863	85730.82635	84789.58
184	202501	2025	1	50021.21006	50305.373	50427.41783	87697.64929	86784.95981	86114.95863	85730.83
185	202502	2025	2	50265.13291	50021.21	50305.37268	88141.17853	87697.64929	86784.95981	86114.96
186	202503	2025	3	50676.36134	50265.133	50021.21006	88590.12309	88141.17853	87697.64929	86784.96
187	202504	2025	4	50903.19373	50676.361	50265.13291	89012.39104	88590.12309	88141.17853	87697.65
188	202601	2026	1	50987.39411	50903.194	50676.36134	89533.55412	89012.39104	88590.12309	88141.18
189	202602	2026	2	51028.01945	50987.394	50903.19373	89425.76001	89533.55412	89012.39104	88590.12
190	202603	2026	3	50994.9299	51028.019	50987.39411	89403.1437	89425.76001	89533.55412	89012.39
191	202604	2026	4	50739.0818	50994.93	51028.01945	88955.33399	89403.1437	89425.76001	89533.55
192	202701	2027	1	50560.71944	50739.082	50994.9299	89218.83948	88955.33399	89403.1437	89425.76
193	202702	2027	2	50154.55894	50560.719	50739.0818	88891.88158	89218.83948	88955.33399	89403.14
194	202703	2027	3	50318.61399	50154.559	50560.71944	88206.76037	88891.88158	89218.83948	88955.33
195	202704	2027	4	50045.29949	50318.614	50154.55894	87241.01498	88206.76037	88891.88158	89218.84
196	202801	2028	1	49489.05913	50045.299	50318.61399	87377.1882	87241.01498	88206.76037	88891.88
197	202802	2028	2	48899.77431	49489.059	50045.29949	87320.92328	87377.1882	87241.01498	88206.76
198	202803	2028	3	48454.2958	48899.774	49489.05913	87121.95955	87320.92328	87377.1882	87241.01
199	202804	2028	4	48031.41157	48454.296	48899.77431	86764.6685	87121.95955	87320.92328	87377.19
200	202901	2029	1	47578.79069	48031.412	48454.2958	87377.54117	86764.6685	87121.95955	87320.92
201	202902	2029	2	47203.63119	47578.791	48031.41157	87618.53244	87377.54117	86764.6685	87121.96
202	202903	2029	3	47371.14944	47203.631	47578.79069	87687.9226	87618.53244	87377.54117	86764.67
203	202904	2029	4	47466.19077	47371.149	47203.63119	87647.35833	87687.9226	87618.53244	87377.54

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
204	203001	2030	1	47528.33869	47466.191	47371.14944	88291.93385	87647.35833	87687.9226	87618.53
205	203002	2030	2	47580.43072	47528.339	47466.19077	88388.67723	88291.93385	87647.35833	87687.92
206	203003	2030	3	47499.38405	47580.431	47528.33869	88520.81908	88388.67723	88291.93385	87647.36
207	203004	2030	4	47399.9578	47499.384	47580.43072	88641.45009	88520.81908	88388.67723	88291.93
208	203101	2031	1	47639.92527	47399.958	47499.38405	88972.05766	88641.45009	88520.81908	88388.68
209	203102	2031	2	47718.65421	47639.925	47399.9578	87738.92196	88972.05766	88641.45009	88520.82
210	203103	2031	3	47661.83191	47718.654	47639.92527	87035.19596	87738.92196	88972.05766	88641.45
211	203104	2031	4	46880.62142	47661.832	47718.65421	86747.39228	87035.19596	87738.92196	88972.06
212	203201	2032	1	46327.72724	46880.621	47661.83191	86862.41055	86747.39228	87035.19596	87738.92
213	203202	2032	2	45968.8905	46327.727	46880.62142	85658.11607	86862.41055	86747.39228	87035.2
214	203203	2032	3	45689.43741	45968.891	46327.72724	84933.59396	85658.11607	86862.41055	86747.39
215	203204	2032	4	44987.26343	45689.437	45968.8905	84880.37056	84933.59396	85658.11607	86862.41
216	203301	2033	1	44459.15804	44987.263	45689.43741	85547.50146	84880.37056	84933.59396	85658.12
217	203302	2033	2	44355.83323	44459.158	44987.26343	85226.77004	85547.50146	84880.37056	84933.59
218	203303	2033	3	44602.23165	44355.833	44459.15804	85141.56549	85226.77004	85547.50146	84880.37
219	203304	2033	4	44638.78063	44602.232	44355.83323	85457.14027	85141.56549	85226.77004	85547.5
220	203401	2034	1	44702.08498	44638.781	44602.23165	86171.06131	85457.14027	85141.56549	85226.77
221	203402	2034	2	44938.58947	44702.085	44638.78063	85559.4233	86171.06131	85457.14027	85141.57
222	203403	2034	3	45192.18789	44938.589	44702.08498	85749.60401	85559.4233	86171.06131	85457.14
223	203404	2034	4	45025.25372	45192.188	44938.58947	86069.20393	85749.60401	85559.4233	86171.06
224	203501	2035	1	44982.59684	45025.254	45192.18789	86875.52273	86069.20393	85749.60401	85559.42
225	203502	2035	2	45311.01616	44982.597	45025.25372	86569.01293	86875.52273	86069.20393	85749.6
226	203503	2035	3	45760.13902	45311.016	44982.59684	86801.10998	86569.01293	86875.52273	86069.2
227	203504	2035	4	45901.71257	45760.139	45311.01616	86920.02266	86801.10998	86569.01293	86875.52
228	203601	2036	1	45997.27254	45901.713	45760.13902	87320.69336	86920.02266	86801.10998	86569.01
229	203602	2036	2	46162.47834	45997.273	45901.71257	86575.03019	87320.69336	86920.02266	86801.11
230	203603	2036	3	46174.93893	46162.478	45997.27254	86532.41181	86575.03019	87320.69336	86920.02
231	203604	2036	4	45864.00793	46174.939	46162.47834	86541.11495	86532.41181	86575.03019	87320.69
232	203701	2037	1	45613.88708	45864.008	46174.93893	87047.64156	86541.11495	86532.41181	86575.03
233	203702	2037	2	45623.99982	45613.887	45864.00793	86995.15948	87047.64156	86541.11495	86532.41
234	203703	2037	3	45830.48526	45624	45613.88708	87271.79894	86995.15948	87047.64156	86541.11
235	203704	2037	4	45926.58296	45830.485	45623.99982	87352.62026	87271.79894	86995.15948	87047.64
236	203801	2038	1	46106.93194	45926.583	45830.48526	87780.0191	87352.62026	87271.79894	86995.16
237	203802	2038	2	46311.14282	46106.932	45926.58296	87588.22632	87780.0191	87352.62026	87271.8
238	203803	2038	3	46581.56514	46311.143	46106.93194	87451.71021	87588.22632	87780.0191	87352.62
239	203804	2038	4	46526.20489	46581.565	46311.14282	87287.17909	87451.71021	87588.22632	87780.02
240	203901	2039	1	46412.05275	46526.205	46581.56514	87513.13561	87287.17909	87451.71021	87588.23
241	203902	2039	2	46359.09843	46412.053	46526.20489	87105.76635	87513.13561	87287.17909	87451.71
242	203903	2039	3	46415.2983	46359.098	46412.05275	86923.48551	87105.76635	87513.13561	87287.18

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
243	203904	2039	4	46138.49262	46415.298	46359.09843	86858.02616	86923.48551	87105.76635	87513.14
244	204001	2040	1	45966.5962	46138.493	46415.2983	87525.01494	86858.02616	86923.48551	87105.77
245	204002	2040	2	46087.03909	45966.596	46138.49262	87670.76512	87525.01494	86858.02616	86923.49
246	204003	2040	3	46405.35574	46087.039	45966.5962	87127.46072	87670.76512	87525.01494	86858.03
247	204004	2040	4	46566.24978	46405.356	46087.03909	88208.97288	87127.46072	87670.76512	87525.01
248	204101	2041	1	46696.86433	46566.25	46405.35574	88644.23112	88208.97288	87127.46072	87670.77
249	204102	2041	2	46890.22753	46696.864	46566.24978	88695.04282	88644.23112	88208.97288	87127.46
250	204103	2041	3	47100.47399	46890.228	46696.86433	88755.45996	88695.04282	88644.23112	88208.97
251	204104	2041	4	47053.86468	47100.474	46890.22753	88799.65931	88755.45996	88695.04282	88644.23

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
1	197902	1979	2		0	1	0	0	2	4116.395
2	197903	1979	3		0	0	1	0	3	4119.434
3	197904	1979	4		0	0	0	1	4	4269.125
4	198001	1980	1		1	0	0	0	5	4215.991
5	198002	1980	2	113326.2667	0	1	0	0	6	4268.271
6	198003	1980	3	106371.2003	0	0	1	0	7	4217.146
7	198004	1980	4	98659.24513	0	0	0	1	8	4363.942
8	198101	1981	1	79435.86732	1	0	0	0	9	4324.634
9	198102	1981	2	57777.92641	0	1	0	0	10	4366.732
10	198103	1981	3	69064.86389	0	0	1	0	11	4301.742
11	198104	1981	4	77693.17387	0	0	0	1	12	4392.519
12	198201	1982	1	64524.39663	1	0	0	0	13	4307.767
13	198202	1982	2	66142.00608	0	1	0	0	14	4324.594
14	198203	1982	3	41860.4411	0	0	1	0	15	4249.503
15	198204	1982	4	38100.82161	0	0	0	1	16	4348.378
16	198301	1983	1	33654.27635	1	0	0	0	17	4313.63
17	198302	1983	2	37238.55243	0	1	0	0	18	4366.634
18	198303	1983	3	40007.34935	0	0	1	0	19	4306.913
19	198304	1983	4	45576.22398	0	0	0	1	20	4454.421
20	198401	1984	1	65336.1753	1	0	0	0	21	4442.309
21	198402	1984	2	83919.65811	0	1	0	0	22	4522.879
22	198403	1984	3	91985.50638	0	0	1	0	23	4558.33
23	198404	1984	4	99686.25105	0	0	0	1	24	4713.778
24	198501	1985	1	133630.5523	1	0	0	0	25	4703.749
25	198502	1985	2	113475.3711	0	1	0	0	26	4792.799
26	198503	1985	3	106085.8851	0	0	1	0	27	4797.379

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
27	198504	1985	4	110022.9945	0	0	0	1	28	4951.894
28	198601	1986	1	136819.9697	1	0	0	0	29	4909.33
29	198602	1986	2	128659.8637	0	1	0	0	30	4990.137
30	198603	1986	3	132906.04	0	0	1	0	31	4988.864
31	198604	1986	4	152780.6011	0	0	0	1	32	5170.768
32	198701	1987	1	160778.0352	1	0	0	0	33	5114.656
33	198702	1987	2	166989.4131	0	1	0	0	34	5227.473
34	198703	1987	3	148558.6223	0	0	1	0	35	5176.53
35	198704	1987	4	188612.7458	0	0	0	1	36	5371.563
36	198801	1988	1	182077.4348	1	0	0	0	37	5349.252
37	198802	1988	2	143170.9957	0	1	0	0	38	5450.652
38	198803	1988	3	142016.8496	0	0	1	0	39	5434.662
39	198804	1988	4	130554.5774	0	0	0	1	40	5615.113
40	198901	1989	1	145271.8931	1	0	0	0	41	5562.782
41	198902	1989	2	133118.1668	0	1	0	0	42	5631.339
42	198903	1989	3	139041.9898	0	0	1	0	43	5580.227
43	198904	1989	4	152392.5672	0	0	0	1	44	5782.407
44	199001	1990	1	139163.213	1	0	0	0	45	5727.485
45	199002	1990	2	135812.3208	0	1	0	0	46	5772.517
46	199003	1990	3	127900.7812	0	0	1	0	47	5718.49
47	199004	1990	4	129173.2991	0	0	0	1	48	5800.827
48	199101	1991	1	125439.9466	1	0	0	0	49	5666.644
49	199102	1991	2	91702.62897	0	1	0	0	50	5685.108
50	199103	1991	3	81189.98676	0	0	1	0	51	5628.58
51	199104	1991	4	60521.10435	0	0	0	1	52	5691.006
52	199201	1992	1	46400.62811	1	0	0	0	53	5523.657
53	199202	1992	2	59269.19691	0	1	0	0	54	5559.378
54	199203	1992	3	57010.95573	0	0	1	0	55	5504.859
55	199204	1992	4	56137.89632	0	0	0	1	56	5582.292
56	199301	1993	1	54059.50865	1	0	0	0	57	5480.331
57	199302	1993	2	53135.67107	0	1	0	0	58	5503.343
58	199303	1993	3	49813.79689	0	0	1	0	59	5477.813
59	199304	1993	4	51095.18886	0	0	0	1	60	5544.735
60	199401	1994	1	45495.5885	1	0	0	0	61	5493.064
61	199402	1994	2	48095.16782	0	1	0	0	62	5555.351
62	199403	1994	3	40121.53983	0	0	1	0	63	5547.6
63	199404	1994	4	40883.44975	0	0	0	1	64	5652.884
64	199501	1995	1	49737.06764	1	0	0	0	65	5605.532
65	199502	1995	2	48190.617	0	1	0	0	66	5675.712

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
66	199503	1995	3	51920.46692	0	0	1	0	67	5650.704
67	199504	1995	4	49100.08635	0	0	0	1	68	5752.937
68	199601	1996	1	43622.64438	1	0	0	0	69	5682.241
69	199602	1996	2	40152.55747	0	1	0	0	70	5760.603
70	199603	1996	3	43277.03935	0	0	1	0	71	5733.921
71	199604	1996	4	42242.9968	0	0	0	1	72	5851.557
72	199701	1997	1	48097.72489	1	0	0	0	73	5818.225
73	199702	1997	2	47865.00325	0	1	0	0	74	5924.755
74	199703	1997	3	42859.11847	0	0	1	0	75	5900.83
75	199704	1997	4	41589.13764	0	0	0	1	76	6030.964
76	199801	1998	1	49746.79859	1	0	0	0	77	5996.639
77	199802	1998	2	50996.00547	0	1	0	0	78	6101.594
78	199803	1998	3	45977.87499	0	0	1	0	79	6105.16
79	199804	1998	4	54672.68773	0	0	0	1	80	6248.901
80	199901	1999	1	51242.2625	1	0	0	0	81	6197.487
81	199902	1999	2	54194.25036	0	1	0	0	82	6311.068
82	199903	1999	3	57725.65413	0	0	1	0	83	6322.853
83	199904	1999	4	54089.05382	0	0	0	1	84	6476.206
84	200001	2000	1	59850.67927	1	0	0	0	85	6420.347
85	200002	2000	2	56470.46325	0	1	0	0	86	6532.125
86	200003	2000	3	63134.67956	0	0	1	0	87	6510.205
87	200004	2000	4	60798.601	0	0	0	1	88	6646.319
88	200101	2001	1	66039.80531	1	0	0	0	89	6628.381
89	200102	2001	2	54271.56482	0	1	0	0	90	6686.351
90	200103	2001	3	64121.75247	0	0	1	0	91	6624.541
91	200104	2001	4	62448.85617	0	0	0	1	92	6727.294
92	200201	2002	1	69754.58881	1	0	0	0	93	6653.835
93	200202	2002	2	69618.72717	0	1	0	0	94	6747.694
94	200203	2002	3	63919.67893	0	0	1	0	95	6692.541
95	200204	2002	4	66325.75818	0	0	0	1	96	6825.718
96	200301	2003	1	74946.59925	1	0	0	0	97	6732.657
97	200302	2003	2	69831.85149	0	1	0	0	98	6801.336
98	200303	2003	3	75712.25549	0	0	1	0	99	6753.322
99	200304	2003	4	88566.46184	0	0	0	1	100	6888.657
100	200401	2004	1	92428.42808	1	0	0	0	101	6831.744
101	200402	2004	2	99307.26886	0	1	0	0	102	6930.925
102	200403	2004	3	81293.05068	0	0	1	0	103	6888.619
103	200404	2004	4	100652.2129	0	0	0	1	104	7042.854
104	200501	2005	1	103215.8214	1	0	0	0	105	6978.604

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
105	200502	2005	2	103391.5294	0	1	0	0	106	7090.004
106	200503	2005	3	105549.1109	0	0	1	0	107	7068.267
107	200504	2005	4	102425.8299	0	0	0	1	108	7234.034
108	200601	2006	1	107350.0094	1	0	0	0	109	7192.718
109	200602	2006	2	105362.3047	0	1	0	0	110	7286.355
110	200603	2006	3	116342.9343	0	0	1	0	111	7246.789
111	200604	2006	4	97701.03724	0	0	0	1	112	7373.029
112	200701	2007	1	109924.7964	1	0	0	0	113	7296.096
113	200702	2007	2	98914.02334	0	1	0	0	114	7351.445
114	200703	2007	3	81118.02306	0	0	1	0	115	7298.784
115	200704	2007	4	75781.18502	0	0	0	1	116	7408.939
116	200801	2008	1	70940.48313	1	0	0	0	117	7270.003
117	200802	2008	2	66378.55065	0	1	0	0	118	7305.217
118	200803	2008	3	53894.90945	0	0	1	0	119	7168.83
119	200804	2008	4	43667.33116	0	0	0	1	120	7188.948
120	200901	2009	1	41697.1012	1	0	0	0	121	6937.619
121	200902	2009	2	39667.66109	0	1	0	0	122	6872.934
122	200903	2009	3	26623.88618	0	0	1	0	123	6684.042
123	200904	2009	4	24015.00576	0	0	0	1	124	6790.723
124	201001	2010	1	20354.81486	1	0	0	0	125	6682.965
125	201002	2010	2	22446.72508	0	1	0	0	126	6787.902
126	201003	2010	3	20647.51511	0	0	1	0	127	6673.683
127	201004	2010	4	18739.62822	0	0	0	1	128	6829.616
128	201101	2011	1	22508.74047	1	0	0	0	129	6754.854
129	201102	2011	2	18208.47249	0	1	0	0	130	6808.929
130	201103	2011	3	24670.33956	0	0	1	0	131	6751.29
131	201104	2011	4	22349.97099	0	0	0	1	132	6898.289
132	201201	2012	1	19604.35646	1	0	0	0	133	6847.371
133	201202	2012	2	29166.60265	0	1	0	0	134	6951.069
134	201203	2012	3	24446.26247	0	0	1	0	135	6905.253
135	201204	2012	4	23587.07774	0	0	0	1	136	7071.706
136	201301	2013	1	24883.2963	1	0	0	0	137	7015.528
137	201302	2013	2	31552.88559	0	1	0	0	138	7072.25
138	201303	2013	3	28528.05211	0	0	1	0	139	7019.569
139	201304	2013	4	31946.02367	0	0	0	1	140	7192.88
140	201401	2014	1	38058.41103	1	0	0	0	141	7103.929
141	201402	2014	2	34221.65769	0	1	0	0	142	7177.7
142	201403	2014	3	37559.45355	0	0	1	0	143	7143.338
143	201404	2014	4	43926.16251	0	0	0	1	144	7311.328

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
144	201501	2015	1	43462.60459	1	0	0	0	145	7235.667
145	201502	2015	2	48099.74848	0	1	0	0	146	7329.924
146	201503	2015	3	51902.61533	0	0	1	0	147	7309.812
147	201504	2015	4	57505.55654	0	0	0	1	148	7481.669
148	201601	2016	1	62352.23184	1	0	0	0	149	7402.021
149	201602	2016	2	68217.39594	0	1	0	0	150	7500.153
150	201603	2016	3	74347.33183	0	0	1	0	151	7479.22
151	201604	2016	4	79520.37744	0	0	0	1	152	7649.519
152	201701	2017	1	82900.24087	1	0	0	0	153	7563.63
153	201702	2017	2	85445.86566	0	1	0	0	154	7652.836
154	201703	2017	3	87584.09648	0	0	1	0	155	7617.423
155	201704	2017	4	88718.2503	0	0	0	1	156	7774.228
156	201801	2018	1	90586.3388	1	0	0	0	157	7673.45
157	201802	2018	2	90052.34458	0	1	0	0	158	7751.426
158	201803	2018	3	89443.68406	0	0	1	0	159	7704.958
159	201804	2018	4	89634.47946	0	0	0	1	160	7851.76
160	201901	2019	1	90048.69809	1	0	0	0	161	7744.505
161	201902	2019	2	89769.72002	0	1	0	0	162	7820.241
162	201903	2019	3	90469.81402	0	0	1	0	163	7770.654
163	201904	2019	4	91644.66174	0	0	0	1	164	7915.292
164	202001	2020	1	92025.22613	1	0	0	0	165	7805.725
165	202002	2020	2	91670.55699	0	1	0	0	166	7895.369
166	202003	2020	3	91998.50542	0	0	1	0	167	7828.527
167	202004	2020	4	92054.92874	0	0	0	1	168	7964.391
168	202101	2021	1	91225.28122	1	0	0	0	169	7849.501
169	202102	2021	2	90421.28074	0	1	0	0	170	7919.054
170	202103	2021	3	89919.2979	0	0	1	0	171	7861.652
171	202104	2021	4	89204.89787	0	0	0	1	172	8007.145
172	202201	2022	1	88032.66003	1	0	0	0	173	7896.256
173	202202	2022	2	87236.62373	0	1	0	0	174	7968.204
174	202203	2022	3	86855.02802	0	0	1	0	175	7910.241
175	202204	2022	4	86207.4507	0	0	0	1	176	8057.939
176	202301	2023	1	85877.53244	1	0	0	0	177	7947.171
177	202302	2023	2	85445.33929	0	1	0	0	178	8018.784
178	202303	2023	3	85329.30784	0	0	1	0	179	7962.102
179	202304	2023	4	85104.80176	0	0	0	1	180	8112.632
180	202401	2024	1	85318.53981	1	0	0	0	181	8002.918
181	202402	2024	2	84984.57309	0	1	0	0	182	8076.204
182	202403	2024	3	85054.13026	0	0	1	0	183	8018.839

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
183	202404	2024	4	84789.5753	0	0	0	1	184	8171.955
184	202501	2025	1	85212.29541	1	0	0	0	185	8062.025
185	202502	2025	2	85730.82635	0	1	0	0	186	8138.152
186	202503	2025	3	86114.95863	0	0	1	0	187	8082.292
187	202504	2025	4	86784.95981	0	0	0	1	188	8238.023
188	202601	2026	1	87697.64929	1	0	0	0	189	8127.529
189	202602	2026	2	88141.17853	0	1	0	0	190	8204.715
190	202603	2026	3	88590.12309	0	0	1	0	191	8149.47
191	202604	2026	4	89012.39104	0	0	0	1	192	8307.158
192	202701	2027	1	89533.55412	1	0	0	0	193	8197.841
193	202702	2027	2	89425.76001	0	1	0	0	194	8276.694
194	202703	2027	3	89403.1437	0	0	1	0	195	8221.153
195	202704	2027	4	88955.33399	0	0	0	1	196	8379.779
196	202801	2028	1	89218.83948	1	0	0	0	197	8268.455
197	202802	2028	2	88891.88158	0	1	0	0	198	8348.67
198	202803	2028	3	88206.76037	0	0	1	0	199	8292.403
199	202804	2028	4	87241.01498	0	0	0	1	200	8452.074
200	202901	2029	1	87377.1882	1	0	0	0	201	8339.751
201	202902	2029	2	87320.92328	0	1	0	0	202	8419.854
202	202903	2029	3	87121.95955	0	0	1	0	203	8362.054
203	202904	2029	4	86764.6685	0	0	0	1	204	8524.192
204	203001	2030	1	87377.54117	1	0	0	0	205	8412.13
205	203002	2030	2	87618.53244	0	1	0	0	206	8506.634
206	203003	2030	3	87687.9226	0	0	1	0	207	8440.39
207	203004	2030	4	87647.35833	0	0	0	1	208	8594.891
208	203101	2031	1	88291.93385	1	0	0	0	209	8477.334
209	203102	2031	2	88388.67723	0	1	0	0	210	8556.108
210	203103	2031	3	88520.81908	0	0	1	0	211	8497.683
211	203104	2031	4	88641.45009	0	0	0	1	212	8657.236
212	203201	2032	1	88972.05766	1	0	0	0	213	8538.342
213	203202	2032	2	87738.92196	0	1	0	0	214	8616.487
214	203203	2032	3	87035.19596	0	0	1	0	215	8557.446
215	203204	2032	4	86747.39228	0	0	0	1	216	8718.238
216	203301	2033	1	86862.41055	1	0	0	0	217	8598.441
217	203302	2033	2	85658.11607	0	1	0	0	218	8677.552
218	203303	2033	3	84933.59396	0	0	1	0	219	8619.537
219	203304	2033	4	84880.37056	0	0	0	1	220	8782.076
220	203401	2034	1	85547.50146	1	0	0	0	221	8662.414
221	203402	2034	2	85226.77004	0	1	0	0	222	8742.735

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
222	203403	2034	3	85141.56549	0	0	1	0	223	8684.847
223	203404	2034	4	85457.14027	0	0	0	1	224	8848.12
224	203501	2035	1	86171.06131	1	0	0	0	225	8727.056
225	203502	2035	2	85559.4233	0	1	0	0	226	8808.297
226	203503	2035	3	85749.60401	0	0	1	0	227	8750.225
227	203504	2035	4	86069.20393	0	0	0	1	228	8915.24
228	203601	2036	1	86875.52273	1	0	0	0	229	8793.837
229	203602	2036	2	86569.01293	0	1	0	0	230	8877.152
230	203603	2036	3	86801.10998	0	0	1	0	231	8820.949
231	203604	2036	4	86920.02266	0	0	0	1	232	8987.948
232	203701	2037	1	87320.69336	1	0	0	0	233	8865.256
233	203702	2037	2	86575.03019	0	1	0	0	234	8949.483
234	203703	2037	3	86532.41181	0	0	1	0	235	8893.633
235	203704	2037	4	86541.11495	0	0	0	1	236	9061.737
236	203801	2038	1	87047.64156	1	0	0	0	237	8936.608
237	203802	2038	2	86995.15948	0	1	0	0	238	9021.226
238	203803	2038	3	87271.79894	0	0	1	0	239	8965.344
239	203804	2038	4	87352.62026	0	0	0	1	240	9133.9
240	203901	2039	1	87780.0191	1	0	0	0	241	9008.357
241	203902	2039	2	87588.22632	0	1	0	0	242	9093.664
242	203903	2039	3	87451.71021	0	0	1	0	243	9035.456
243	203904	2039	4	87287.17909	0	0	0	1	244	9206.953
244	204001	2040	1	87513.13561	1	0	0	0	245	9080.573
245	204002	2040	2	87105.76635	0	1	0	0	246	9180.537
246	204003	2040	3	86923.48551	0	0	1	0	247	9116.019
247	204004	2040	4	86858.02616	0	0	0	1	248	9283.651
248	204101	2041	1	87525.01494	1	0	0	0	249	9155.071
249	204102	2041	2	87670.76512	0	1	0	0	250	9241.642
250	204103	2041	3	87127.46072	0	0	1	0	251	9185.235
251	204104	2041	4	88208.97288	0	0	0	1	252	9359.057

OBS	DTE	YEAR	QUARTER	EMPIIND	ACTIND	LGCONCOM	LG1EMCOM	LNCNONIND	LN0EMIND
1	197902	1979	2	1265.1996	29,173	12.1212		10.2811	7.10808
2	197903	1979	3	1273.6012	28,995	12.1262	8.32426	10.275	7.11208
3	197904	1979	4	1283.0665	29,321	12.1342	8.32502	10.2862	7.11526

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
4	198001	1980	1	1256.5792	29,945	12.1439	8.36061	10.3073	7.09531
5	198002	1980	2	1255.6581	30,014	12.151	8.34787	10.3096	7.09049
6	198003	1980	3	1241.8223	29,643	12.154	8.36035	10.2971	7.07623
7	198004	1980	4	1259.5617	29,947	12.1583	8.34816	10.3072	7.08791
8	198101	1981	1	1243.6446	30,504	12.164	8.38229	10.3256	7.07876
9	198102	1981	2	1274.3618	30,256	12.1696	8.37314	10.3174	7.10036
10	198103	1981	3	1279.9714	29,902	12.1712	8.38304	10.3057	7.10242
11	198104	1981	4	1265.6209	30,033	12.1713	8.36793	10.3101	7.08958
12	198201	1982	1	1215.0474	30,466	12.1814	8.38877	10.3244	7.05393
13	198202	1982	2	1210.546	30,302	12.1864	8.3692	10.319	7.04943
14	198203	1982	3	1195.7993	29,749	12.1868	8.37323	10.3007	7.03931
15	198204	1982	4	1175.8957	29,863	12.1891	8.35561	10.3045	7.02108
16	198301	1983	1	1169.3971	30,084	12.1948	8.37855	10.3119	7.01616
17	198302	1983	2	1198.5917	29,607	12.1989	8.37036	10.2959	7.03852
18	198303	1983	3	1213.3708	29,053	12.2009	8.38275	10.2769	7.04804
19	198304	1983	4	1224.871	29,199	12.2021	8.36876	10.2819	7.05324
20	198401	1984	1	1219.2247	29,619	12.2039	8.40252	10.2962	7.05307
21	198402	1984	2	1237.7853	29,356	12.2043	8.39949	10.2873	7.06484
22	198403	1984	3	1245.9485	28,795	12.2108	8.41748	10.268	7.07268
23	198404	1984	4	1255.7307	29,037	12.224	8.42512	10.2764	7.07809
24	198501	1985	1	1234.0644	29,678	12.2362	8.45848	10.2982	7.06193
25	198502	1985	2	1255.0262	29,218	12.2413	8.45619	10.2825	7.07775
26	198503	1985	3	1266.6146	28,543	12.2485	8.47506	10.2593	7.08707
27	198504	1985	4	1275.4214	28,822	12.2451	8.47587	10.269	7.09232
28	198601	1986	1	1261.3688	29,332	12.2448	8.50757	10.2866	7.08506
29	198602	1986	2	1274.4737	28,649	12.2487	8.49889	10.2632	7.09854
30	198603	1986	3	1282.5394	27,912	12.2484	8.51533	10.2372	7.10726
31	198604	1986	4	1292.788	27,823	12.246	8.51503	10.234	7.1142
32	198701	1987	1	1273.4309	28,347	12.2515	8.5508	10.2527	7.10242
33	198702	1987	2	1290.5846	27,850	12.2555	8.53987	10.2351	7.11347
34	198703	1987	3	1299.7469	27,136	12.2551	8.56175	10.2091	7.11972
35	198704	1987	4	1317.1461	27,028	12.2516	8.55179	10.205	7.1325
36	198801	1988	1	1313.8706	28,016	12.2602	8.58873	10.2409	7.13178
37	198802	1988	2	1331.3121	27,463	12.2638	8.58448	10.2211	7.14204
38	198803	1988	3	1329.4281	26,836	12.2631	8.60332	10.1981	7.14006
39	198804	1988	4	1341.8426	26,831	12.2608	8.60025	10.1978	7.14842
40	198901	1989	1	1322.4231	27,845	12.2692	8.63293	10.2347	7.13855
41	198902	1989	2	1332.3906	27,450	12.2741	8.6235	10.2206	7.14606
42	198903	1989	3	1323.3799	26,723	12.2731	8.63588	10.2068	7.13823

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
43	198904	1989	4	1327.0474	26,736	12.2692	8.62659	10.2239	7.13918
44	199001	1990	1	1298.1846	27,459	12.2702	8.6623	10.2613	7.11947
45	199002	1990	2	1300.4107	27,049	12.2687	8.653	10.2731	7.12166
46	199003	1990	3	1285.039	26,424	12.265	8.66095	10.2752	7.11029
47	199004	1990	4	1265.5981	26,289	12.2614	8.65146	10.2775	7.09598
48	199101	1991	1	1219.3528	26,806	12.268	8.66585	10.2874	7.06193
49	199102	1991	2	1213.3884	26,244	12.2666	8.64257	10.2862	7.05738
50	199103	1991	3	1195.5012	25,597	12.2645	8.64571	10.278	7.04586
51	199104	1991	4	1181.6977	25,475	12.2635	8.63574	10.2694	7.03351
52	199201	1992	1	1136.1564	25,572	12.2683	8.64661	10.2617	7.00097
53	199202	1992	2	1130.6915	24,935	12.2668	8.61693	10.2584	6.99696
54	199203	1992	3	1115.2958	24,407	12.2604	8.62325	10.2503	6.9861
55	199204	1992	4	1089.1833	24,258	12.2546	8.61328	10.2382	6.96404
56	199301	1993	1	1062.5582	24,799	12.2642	8.62728	10.2394	6.93945
57	199302	1993	2	1054.6413	24,168	12.2645	8.60886	10.2328	6.93391
58	199303	1993	3	1038.5784	23,757	12.2629	8.61305	10.2333	6.9255
59	199304	1993	4	1026.9173	23,765	12.2637	8.60857	10.2345	6.91513
60	199401	1994	1	1012.3046	24,061	12.2734	8.6208	10.2366	6.89791
61	199402	1994	2	1025.1076	23,663	12.2778	8.6113	10.2406	6.91085
62	199403	1994	3	1025.9207	23,364	12.2786	8.62263	10.2436	6.91523
63	199404	1994	4	1024.6659	23,379	12.2824	8.62128	10.2447	6.91642
64	199501	1995	1	1021.6011	23,741	12.2907	8.64003	10.2485	6.90935
65	199502	1995	2	1029.7542	23,440	12.2915	8.6315	10.2523	6.91771
66	199503	1995	3	1034.3624	23,066	12.2913	8.64395	10.25	6.92176
67	199504	1995	4	1031.2962	22,923	12.2923	8.63953	10.2473	6.91899
68	199601	1996	1	1035.6926	23,175	12.2952	8.65746	10.2449	6.92353
69	199602	1996	2	1051.5638	22,956	12.295	8.64509	10.2463	6.93945
70	199603	1996	3	1055.4124	22,686	12.2961	8.6588	10.2491	6.94322
71	199604	1996	4	1060.7759	22,776	12.2988	8.65415	10.2501	6.94851
72	199701	1997	1	1059.2085	23,014	12.3036	8.67447	10.2544	6.94707
73	199702	1997	2	1078.5455	22,608	12.3053	8.66875	10.2561	6.96555
74	199703	1997	3	1089.77	22,353	12.3065	8.6869	10.2583	6.97597
75	199704	1997	4	1087.1027	22,358	12.3069	8.68284	10.2517	6.97401
76	199801	1998	1	1092.3943	22,975	12.3137	8.70467	10.2696	6.97924
77	199802	1998	2	1105.7723	22,803	12.3154	8.69895	10.2729	6.99228
78	199803	1998	3	1101.5732	22,581	12.3174	8.71631	10.274	6.9886
79	199804	1998	4	1094.4656	22,653	12.3195	8.7169	10.2749	6.98277
80	199901	1999	1	1078.1798	22,866	12.3246	8.74016	10.2729	6.96829
81	199902	1999	2	1089.3991	22,599	12.3274	8.7319	10.2692	6.97887

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
82	199903	1999	3	1086.3799	22,339	12.3296	8.75007	10.2693	6.97597
83	199904	1999	4	1084.294	22,289	12.3325	8.75193	10.2675	6.97439
84	200001	2000	1	1081.9195	22,394	12.3367	8.77589	10.2662	6.96829
85	200002	2000	2	1091.0416	22,115	12.338	8.76784	10.2655	6.97625
86	200003	2000	3	1094.1283	21,844	12.3384	8.78522	10.2649	6.97859
87	200004	2000	4	1082.1473	21,932	12.341	8.78179	10.2655	6.96782
88	200101	2001	1	1069.9858	22,199	12.3451	8.80234	10.2658	6.95759
89	200102	2001	2	1057.882	21,927	12.3472	8.79944	10.2631	6.94592
90	200103	2001	3	1036.0588	21,679	12.3484	8.80814	10.262	6.92451
91	200104	2001	4	1004.2396	21,630	12.3508	8.79886	10.2612	6.89305
92	200201	2002	1	979.5314	21,742	12.3551	8.81426	10.257	6.8686
93	200202	2002	2	982.83885	21,476	12.3574	8.80327	10.2521	6.87244
94	200203	2002	3	971.09195	21,237	12.359	8.81727	10.2494	6.86003
95	200204	2002	4	957.64865	21,127	12.3613	8.80906	10.2471	6.84588
96	200301	2003	1	941.00971	21,184	12.3638	8.82874	10.2463	6.82806
97	200302	2003	2	935.96374	20,867	12.3649	8.81503	10.2456	6.82263
98	200303	2003	3	928.81162	20,673	12.3659	8.82518	10.2469	6.81465
99	200304	2003	4	920.97649	20,670	12.3677	8.8181	10.2488	6.80594
100	200401	2004	1	917.28947	20,910	12.3713	8.83793	10.2521	6.80184
101	200402	2004	2	925.27529	20,734	12.3722	8.82964	10.2492	6.81036
102	200403	2004	3	925.71414	20,584	12.3732	8.84408	10.2501	6.81091
103	200404	2004	4	915.3797	20,709	12.3749	8.83796	10.2523	6.79917
104	200501	2005	1	907.42951	21,017	12.3771	8.86007	10.2564	6.79021
105	200502	2005	2	911.06293	20,558	12.379	8.8509	10.2473	6.79425
106	200503	2005	3	913.19918	20,387	12.38	8.86671	10.2473	6.79593
107	200504	2005	4	906.46568	20,396	12.3811	8.86366	10.2482	6.78807
108	200601	2006	1	904.94886	20,672	12.3833	8.88685	10.2535	6.78581
109	200602	2006	2	909.44518	20,354	12.3858	8.88113	10.2465	6.79032
110	200603	2006	3	908.77736	20,103	12.3871	8.89404	10.244	6.78886
111	200604	2006	4	898.10482	20,100	12.3884	8.88863	10.2453	6.77662
112	200701	2007	1	889.1038	20,455	12.3908	8.90589	10.2496	6.76884
113	200702	2007	2	888.65534	20,346	12.3916	8.89508	10.2529	6.76838
114	200703	2007	3	888.81633	20,123	12.3924	8.90262	10.2521	6.76803
115	200704	2007	4	872.22771	20,106	12.3946	8.89538	10.2521	6.74876
116	200801	2008	1	859.23033	20,397	12.397	8.91036	10.2557	6.73328
117	200802	2008	2	858.88271	20,213	12.3974	8.89139	10.2576	6.73281
118	200803	2008	3	854.87002	20,028	12.3981	8.89618	10.2583	6.72707
119	200804	2008	4	829.48575	19,923	12.3994	8.87716	10.2593	6.69568
120	200901	2009	1	786.54769	20,008	12.4018	8.87974	10.2606	6.64262

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
121	200902	2009	2	763.53306	19,759	12.4028	8.84386	10.261	6.61312
122	200903	2009	3	746.75779	19,590	12.4025	8.83431	10.2609	6.59154
123	200904	2009	4	733.61021	19,440	12.4032	8.80603	10.2606	6.5734
124	201001	2010	1	724.035	19,565	12.4041	8.82188	10.2617	6.56018
125	201002	2010	2	731.13138	19,404	12.4045	8.80566	10.2633	6.57088
126	201003	2010	3	736.45014	19,219	12.4047	8.82117	10.2628	6.57703
127	201004	2010	4	731.71771	19,195	12.4053	8.80293	10.2625	6.5692
128	201101	2011	1	722.97919	19,358	12.4067	8.82206	10.2625	6.56357
129	201102	2011	2	729.73755	19,173	12.4065	8.81217	10.2616	6.5699
130	201103	2011	3	736.17661	19,003	12.4064	8.81998	10.2619	6.57633
131	201104	2011	4	730.77798	19,010	12.4071	8.81	10.2613	6.56752
132	201201	2012	1	728.32929	19,208	#N/A	8.83216	#N/A	6.56498
133	201202	2012	2	737.16423	19,059	#N/A	8.82284	#N/A	6.57298
134	201203	2012	3	742.24664	18,877	#N/A	8.83412	#N/A	6.58258
135	201204	2012	4	735.39439	18,811	#N/A	8.82382	#N/A	6.58948
136	201301	2013	1	729.23836	19,023	#N/A	8.84383	#N/A	6.58465
137	201302	2013	2	731.68308	18,922	#N/A	8.83537	#N/A	6.59373
138	201303	2013	3	738.06396	18,805	#N/A	8.8475	#N/A	6.60245
139	201304	2013	4	730.98625	18,813	#N/A	8.83986	#N/A	6.60584
140	201401	2014	1	735.69395	#N/A	#N/A	8.86039	#N/A	6.59728
141	201402	2014	2	745.21182	#N/A	#N/A	8.85318	#N/A	6.60313
142	201403	2014	3	755.82625	#N/A	#N/A	8.86692	#N/A	6.61352
143	201404	2014	4	748.81029	#N/A	#N/A	8.86029	#N/A	6.61754
144	201501	2015	1	751.61627	#N/A	#N/A	8.88179	#N/A	6.61056
145	201502	2015	2	755.16158	#N/A	#N/A	8.87484	#N/A	6.6158
146	201503	2015	3	760.61374	#N/A	#N/A	8.88861	#N/A	6.6242
147	201504	2015	4	755.39097	#N/A	#N/A	8.88174	#N/A	6.62632
148	201601	2016	1	757.91784	#N/A	#N/A	8.90197	#N/A	6.61754
149	201602	2016	2	760.93521	#N/A	#N/A	8.89418	#N/A	6.62021
150	201603	2016	3	765.64854	#N/A	#N/A	8.90769	#N/A	6.62844
151	201604	2016	4	758.79604	#N/A	#N/A	8.90047	#N/A	6.62976
152	201701	2017	1	760.55242	#N/A	#N/A	8.91936	#N/A	6.62087
153	201702	2017	2	763.66055	#N/A	#N/A	8.91002	#N/A	6.62207
154	201703	2017	3	767.8247	#N/A	#N/A	8.92204	#N/A	6.62817
155	201704	2017	4	760.82132	#N/A	#N/A	8.91347	#N/A	6.62831
156	201801	2018	1	762.4362	#N/A	#N/A	8.93101	#N/A	6.61794
157	201802	2018	2	766.31902	#N/A	#N/A	8.921	#N/A	6.61981
158	201803	2018	3	771.10129	#N/A	#N/A	8.93234	#N/A	6.62659
159	201804	2018	4	764.99182	#N/A	#N/A	8.9233	#N/A	6.62804

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
160	201901	2019	1	765.55988	#N/A	#N/A	8.9402	#N/A	6.61754
161	201902	2019	2	767.82872	#N/A	#N/A	8.92971	#N/A	6.61834
162	201903	2019	3	771.05144	#N/A	#N/A	8.94079	#N/A	6.62367
163	201904	2019	4	763.41666	#N/A	#N/A	8.93175	#N/A	6.62367
164	202001	2020	1	763.94364	#N/A	#N/A	8.94877	#N/A	6.61338
165	202002	2020	2	765.76509	#N/A	#N/A	8.93868	#N/A	6.61419
166	202003	2020	3	768.54978	#N/A	#N/A	8.95229	#N/A	6.61994
167	202004	2020	4	760.37893	#N/A	#N/A	8.94215	#N/A	6.62021
168	202101	2021	1	760.27208	#N/A	#N/A	8.95826	#N/A	6.61097
169	202102	2021	2	761.70045	#N/A	#N/A	8.94772	#N/A	6.61231
170	202103	2021	3	764.71594	#N/A	#N/A	8.95877	#N/A	6.61914
171	202104	2021	4	756.52824	#N/A	#N/A	8.94977	#N/A	6.62087
172	202201	2022	1	756.10529	#N/A	#N/A	8.96636	#N/A	6.6111
173	202202	2022	2	756.96755	#N/A	#N/A	8.95577	#N/A	6.61123
174	202203	2022	3	759.84208	#N/A	#N/A	8.96661	#N/A	6.6166
175	202204	2022	4	751.93865	#N/A	#N/A	8.95732	#N/A	6.61673
176	202301	2023	1	751.90222	#N/A	#N/A	8.9741	#N/A	6.60611
177	202302	2023	2	753.03893	#N/A	#N/A	8.96376	#N/A	6.60489
178	202303	2023	3	756.15882	#N/A	#N/A	8.97499	#N/A	6.60948
179	202304	2023	4	748.359	#N/A	#N/A	8.96646	#N/A	6.60868
180	202401	2024	1	748.62804	#N/A	#N/A	8.98387	#N/A	6.59837
181	202402	2024	2	749.85631	#N/A	#N/A	8.97367	#N/A	6.59755
182	202403	2024	3	752.98404	#N/A	#N/A	8.98496	#N/A	6.60191
183	202404	2024	4	745.20564	#N/A	#N/A	8.97651	#N/A	6.60055
184	202501	2025	1	744.61528	#N/A	#N/A	8.9939	#N/A	6.58934
185	202502	2025	2	744.94573	#N/A	#N/A	8.98378	#N/A	6.5881
186	202503	2025	3	747.10569	#N/A	#N/A	8.99524	#N/A	6.59181
187	202504	2025	4	738.70829	#N/A	#N/A	8.98705	#N/A	6.58961
188	202601	2026	1	738.12192	#N/A	#N/A	9.00445	#N/A	6.578
189	202602	2026	2	738.491	#N/A	#N/A	8.99442	#N/A	6.57591
190	202603	2026	3	740.69288	#N/A	#N/A	9.00623	#N/A	6.57967
191	202604	2026	4	732.46988	#N/A	#N/A	8.99824	#N/A	6.57758
192	202701	2027	1	731.60213	#N/A	#N/A	9.01576	#N/A	6.56597
193	202702	2027	2	731.59247	#N/A	#N/A	9.00587	#N/A	6.564
194	202703	2027	3	733.57956	#N/A	#N/A	9.01751	#N/A	6.5678
195	202704	2027	4	725.32781	#N/A	#N/A	9.00944	#N/A	6.56569
196	202801	2028	1	724.77986	#N/A	#N/A	9.02667	#N/A	6.55393
197	202802	2028	2	724.70889	#N/A	#N/A	9.01634	#N/A	6.55194
198	202803	2028	3	726.54975	#N/A	#N/A	9.02786	#N/A	6.55564

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
199	202804	2028	4	718.14549	#N/A	#N/A	9.01965	#N/A	6.55336
200	202901	2029	1	717.63233	#N/A	#N/A	9.03677	#N/A	6.54161
201	202902	2029	2	717.76305	#N/A	#N/A	9.02641	#N/A	6.53973
202	202903	2029	3	719.86741	#N/A	#N/A	9.03788	#N/A	6.54377
203	202904	2029	4	711.91766	#N/A	#N/A	9.02981	#N/A	6.54204
204	203001	2030	1	711.53652	#N/A	#N/A	9.04673	#N/A	6.53044
205	203002	2030	2	711.31932	#N/A	#N/A	9.03627	#N/A	6.5281
206	203003	2030	3	713.87876	#N/A	#N/A	9.04888	#N/A	6.53306
207	203004	2030	4	706.19994	#N/A	#N/A	9.03942	#N/A	6.5319
208	203101	2031	1	705.99785	#N/A	#N/A	9.05529	#N/A	6.52092
209	203102	2031	2	706.5426	#N/A	#N/A	9.04458	#N/A	6.52003
210	203103	2031	3	708.94225	#N/A	#N/A	9.05573	#N/A	6.52547
211	203104	2031	4	701.18725	#N/A	#N/A	9.04727	#N/A	6.52459
212	203201	2032	1	701.12704	#N/A	#N/A	9.06356	#N/A	6.51397
213	203202	2032	2	701.37019	#N/A	#N/A	9.05248	#N/A	6.51323
214	203203	2032	3	703.72461	#N/A	#N/A	9.06321	#N/A	6.5187
215	203204	2032	4	696.03166	#N/A	#N/A	9.05467	#N/A	6.51767
216	203301	2033	1	696.07713	#N/A	#N/A	9.07086	#N/A	6.50668
217	203302	2033	2	696.48081	#N/A	#N/A	9.05975	#N/A	6.50593
218	203303	2033	3	699.09303	#N/A	#N/A	9.07048	#N/A	6.5113
219	203304	2033	4	691.79998	#N/A	#N/A	9.06204	#N/A	6.51041
220	203401	2034	1	692.23324	#N/A	#N/A	9.07808	#N/A	6.49964
221	203402	2034	2	692.94529	#N/A	#N/A	9.06691	#N/A	6.49888
222	203403	2034	3	695.71186	#N/A	#N/A	9.07761	#N/A	6.50429
223	203404	2034	4	688.44334	#N/A	#N/A	9.0694	#N/A	6.50354
224	203501	2035	1	688.89817	#N/A	#N/A	9.08565	#N/A	6.49285
225	203502	2035	2	689.63769	#N/A	#N/A	9.07449	#N/A	6.49209
226	203503	2035	3	692.56426	#N/A	#N/A	9.08521	#N/A	6.49783
227	203504	2035	4	685.42811	#N/A	#N/A	9.07693	#N/A	6.49708
228	203601	2036	1	685.91706	#N/A	#N/A	9.09312	#N/A	6.48647
229	203602	2036	2	686.67719	#N/A	#N/A	9.08186	#N/A	6.48601
230	203603	2036	3	689.53261	#N/A	#N/A	9.09274	#N/A	6.49179
231	203604	2036	4	682.38698	#N/A	#N/A	9.08455	#N/A	6.49133
232	203701	2037	1	682.9128	#N/A	#N/A	9.10074	#N/A	6.48142
233	203702	2037	2	683.58766	#N/A	#N/A	9.08946	#N/A	6.48127
234	203703	2037	3	686.37735	#N/A	#N/A	9.1002	#N/A	6.48692
235	203704	2037	4	679.27964	#N/A	#N/A	9.09195	#N/A	6.48647
236	203801	2038	1	679.9529	#N/A	#N/A	9.10814	#N/A	6.47666
237	203802	2038	2	680.74479	#N/A	#N/A	9.09678	#N/A	6.47636

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
238	203803	2038	3	683.66961	#N/A	#N/A	9.10764	#N/A	6.48219
239	203804	2038	4	676.62749	#N/A	#N/A	9.09933	#N/A	6.48188
240	203901	2039	1	677.31117	#N/A	#N/A	9.11549	#N/A	6.47188
241	203902	2039	2	678.02828	#N/A	#N/A	9.1042	#N/A	6.47157
242	203903	2039	3	680.86391	#N/A	#N/A	9.11514	#N/A	6.47743
243	203904	2039	4	673.69849	#N/A	#N/A	9.10698	#N/A	6.47713
244	204001	2040	1	674.36699	#N/A	#N/A	9.12326	#N/A	6.46723
245	204002	2040	2	674.62949	#N/A	#N/A	9.11197	#N/A	6.46677
246	204003	2040	3	677.67441	#N/A	#N/A	9.12437	#N/A	6.47312
247	204004	2040	4	670.68445	#N/A	#N/A	9.11494	#N/A	6.47327
248	204101	2041	1	671.56153	#N/A	#N/A	9.13041	#N/A	6.46381
249	204102	2041	2	672.30429	#N/A	#N/A	9.11893	#N/A	6.46397
250	204103	2041	3	675.29696	#N/A	#N/A	9.13006	#N/A	6.47033
251	204104	2041	4	668.34699	#N/A	#N/A	9.12208	#N/A	6.47049

ATTACHMENT B
TURN DATA REQUEST
TURN-SCG-DR-08

**TURN DATA REQUEST
TURN-SCG-DR-08
SOCALGAS 2016 GRC – A.14-11-004
SOCALGAS PARTIAL RESPONSE
DATE RECEIVED: APRIL 3, 2015
DATE RESPONDED: APRIL 17, 2015**

Connected Meter Forecasts

7. Please provide Excel spreadsheets containing all quarterly historical and forecast data used by Ms. Payan to develop her forecasts of connected meters (including but not limited to SCG-30-WP pages 11-50).

SoCalGas Response:

On April 2, 2015 while in the process of responding to data requests on the customer forecast, Ms. Rose-Marie Payan (SCG-30) noticed a discrepancy in her workpapers' labeling of the Global Insight data for single family and multi-family housing starts. Upon doing more research, she noticed that the single family housing start data series contained the values for the multi-family housing start data and vice versa. SoCalGas has re-run the model that generated the residential forecast and has obtained new estimates and a new forecast for the residential sector based only on the correction to the data. No change has been made for the master meter sector, the commercial sector or the industrial sector. The change affects only the SoCalGas single family and SoCalGas multi-family segment forecasts. No corrections are necessary for the SDG&E customer forecast. SoCalGas has not determined whether it will correct its cost forecasts, and is not seeking to increase its revenue requirement at this time for this change.

The effects of correcting the data used to run the model regressions are as follows:

Over the GRC years covering 2016-2018:

- (1) Connected single family meters are now 0.4% lower
- (2) Connected multi-family meters will be 1.51% higher
- (3) The net effect generates an increase, on average, of 0.23% in connected meters over the GRC years of 2016 to 2018.
- (4) Active single family meters are 0.44% lower, on average, in the years 2016 to 2018.
- (5) Active multi-family meters are 1.52% higher, on average in the GRC forecast period
- (6) The net effect on active meters is an increase of 0.193% for the years 2016 to 2018
- (7) Several cost witness forecasts were understated as a result

For the specifics relating to this Question 7, please refer to the attached Excel spreadsheet, "TURN SCG-08_Question 7 Attachment.xls".

A. 22-05-015/016. TURN-SEU-025_Amended_ATTCH_Q2_SCG-2016-WP; SCG-30_Rose-Marie_Payan_WP_REVISIED_TY 2016 GRC

OBS	DTE	YEAR	QUARTEF	TotConn	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES
1	197902	1979	2	3754945	21858	183720	29175	1044831		3542050
2	197903	1979	3	3780218	22243	184640	28998	1056084	11253	3566581
3	197904	1979	4	3806014	22568	186131	29325	1067481	11397	3590558
4	198001	1980	1	3827794	23415	187947	29949	1076885	9404	3609899
5	198002	1980	2	3846989	24230	189288	30018	1085343	8458	3627683
6	198003	1980	3	3864920	24697	189860	29646	1094447	9104	3645414
7	198004	1980	4	3884278	25086	190673	29948	1104182	9735	3663657
8	198101	1981	1	3907301	31743	191756	30504	1113039	8857	3685041
9	198102	1981	2	3917130	31462	192842	30256	1120924	7885	3694032
10	198103	1981	3	3926982	30131	193137	29903	1128137	7213	3703942
11	198104	1981	4	3941506	30761	193171	30035	1135861	7724	3718300
12	198201	1982	1	3957126	31782	195127	30468	1143617	7756	3731531
13	198202	1982	2	3969071	32554	196109	30304	1150513	6896	3742658
14	198203	1982	3	3978183	33081	196181	29752	1157101	6588	3752250
15	198204	1982	4	3989815	33618	196634	29867	1164070	6969	3763314
16	198301	1983	1	4002711	34436	197766	30090	1171468	7398	3774855
17	198302	1983	2	4012616	35047	198576	29610	1178057	6589	3784431
18	198303	1983	3	4025343	35534	198967	29054	1185677	7620	3797322
19	198304	1983	4	4039881	35945	199210	29199	1193933	8256	3811473
20	198401	1984	1	4056555	36487	199562	29619	1202899	8966	3827374
21	198402	1984	2	4070793	36857	199640	29357	1210847	7948	3841796
22	198403	1984	3	4085150	37078	200945	28796	1219044	8197	3855409
23	198404	1984	4	4104816	37507	203617	29038	1229031	9987	3872161
24	198501	1985	1	4126983	38077	206126	29678	1240563	11532	3891179
25	198502	1985	2	4146320	38691	207173	29218	1252269	11706	3909929
26	198503	1985	3	4168323	39205	208667	28547	1264693	12424	3931109
27	198504	1985	4	4185094	39577	207966	28825	1274087	9394	3948303
28	198601	1986	1	4215176	40046	207892	29337	1291752	17665	3977948
29	198602	1986	2	4236134	40343	208707	28658	1304602	12850	3998769
30	198603	1986	3	4262102	40614	208638	27923	1321020	16418	4025542
31	198604	1986	4	4290443	40841	208138	27834	1338645	17625	4054471
32	198701	1987	1	4324572	41155	209297	28359	1357743	19098	4086916
33	198702	1987	2	4353973	41515	210135	27864	1375695	17952	4115974
34	198703	1987	3	4383554	41784	210053	27149	1393988	18293	4146352
35	198704	1987	4	4414885	42070	209320	27039	1412851	18863	4178526
36	198801	1988	1	4448884	42480	211115	28026	1431008	18157	4209742
37	198802	1988	2	4476162	42932	211878	27478	1446245	15237	4236806
38	198803	1988	3	4504002	43329	211737	26853	1461772	15527	4265413
39	198804	1988	4	4533559	43580	211251	26845	1477080	15308	4295463
40	198901	1989	1	4566286	43759	213036	27854	1491608	14528	4325396
41	198902	1989	2	4592757	43875	214071	27462	1503773	12165	4351224
42	198903	1989	3	4619184	44022	213857	27087	1516455	12682	4378240
43	198904	1989	4	4644640	44117	213043	27555	1527687	11232	4404043
44	199001	1990	1	4671401	44180	213256	28605	1538257	10570	4429540
45	199002	1990	2	4693754	44251	212932	28943	1548197	9940	4451879
46	199003	1990	3	4715346	44282	212146	29004	1558661	10464	4474196
47	199004	1990	4	4736012	44349	211367	29070	1569031	10370	4495575
48	199101	1991	1	4757973	44430	212776	29359	1578685	9654	4515838
49	199102	1991	2	4771120	44541	212479	29325	1585226	6541	4529316
50	199103	1991	3	4788181	44702	212028	29086	1592815	7589	4547067
51	199104	1991	4	4802664	44899	211826	28838	1599356	6541	4561999
52	199201	1992	1	4819961	45110	212836	28614	1605648	6292	4578511
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118	200803	2008	3	5721436	42645	242338	28518	1779737	5743	5450581
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3246646	12729	648	-133	3233917	1675802	45486	16505.5265	10547.16692
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			64910.01276	68518.25334				106371.2003
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17023.1623	18653.62173	24365.27858	22068.61295	22277.80605	21077.65931	23206.81937	41776.7275	37238.55243
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10399.02561	10619.00048	7046.39885	47206.1354	43504.09521	47326.62852	43575.24988	44195.86365	59850.67927
10584.95861	10399.02561	10619.00048	47999.24649	47206.1354	43504.09521	47326.62852	43575.24988	56470.46325
12644.54387	10584.95861	10399.02561	49165.18169	47999.24649	47206.1354	43504.09521	47326.62852	63134.67956
8471.21676	12644.54387	10584.95861	47007.23978	49165.18169	47999.24649	47206.1354	43504.09521	60798.601
13969.49787	8471.21676	12644.54387	48660.72957	47007.23978	49165.18169	47999.24649	47206.1354	66039.80531
13791.36122	13969.49787	8471.21676	37232.96638	48660.72957	47007.23978	49165.18169	47999.24649	54271.56482
17379.07574	13791.36122	13969.49787	44817.17154	37232.96638	48660.72957	47007.23978	49165.18169	64121.75247
17038.59844	17379.07574	13791.36122	51901.68925	44817.17154	37232.96638	48660.72957	47007.23978	62448.85617
19304.58093	17038.59844	17379.07574	53249.06231	51901.68925	44817.17154	37232.96638	48660.72957	69754.58881
10547.16692	19304.58093	17038.59844	53544.00998	53249.06231	51901.68925	44817.17154	37232.96638	69618.72717
16505.5265	10547.16692	19304.58093	49637.27174	53544.00998	53249.06231	51901.68925	44817.17154	63919.67893
16074.71719	16505.5265	10547.16692	53131.00661	49637.27174	53544.00998	53249.06231	51901.68925	66325.75818
14282.40719	16074.71719	16505.5265	61032.27644	53131.00661	49637.27174	53544.00998	53249.06231	74946.59925
13194.75157	14282.40719	16074.71719	57453.57714	61032.27644	53131.00661	49637.27174	53544.00998	69831.85149
13914.32281	13194.75157	14282.40719	62596.47844	57453.57714	61032.27644	53131.00661	49637.27174	75712.25549
12378.27435	13914.32281	13194.75157	66613.28857	62596.47844	57453.57714	61032.27644	53131.00661	88566.46184
13115.77705	12378.27435	13914.32281	72660.54551	66613.28857	62596.47844	57453.57714	61032.27644	92428.42808
21953.17327	13115.77705	12378.27435	77011.8652	72660.54551	66613.28857	62596.47844	57453.57714	99307.26886
19767.88257	21953.17327	13115.77705	64647.59896	77011.8652	72660.54551	66613.28857	62596.47844	81293.05068
22295.40366	19767.88257	21953.17327	80965.41311	64647.59896	77011.8652	72660.54551	66613.28857	100652.2129
16645.45172	22295.40366	19767.88257	82059.1731	80965.41311	64647.59896	77011.8652	72660.54551	103215.8214
19686.79982	16645.45172	22295.40366	81261.51279	82059.1731	80965.41311	64647.59896	77011.8652	103391.5294
21156.64829	19686.79982	16645.45172	80419.30961	81261.51279	82059.1731	80965.41311	64647.59896	105549.1109
22130.01663	21156.64829	19686.79982	80636.16549	80419.30961	81261.51279	82059.1731	80965.41311	102425.8299
25129.80125	22130.01663	21156.64829	79790.26088	80636.16549	80419.30961	81261.51279	82059.1731	107350.0094
21789.66445	25129.80125	22130.01663	85813.81206	79790.26088	80636.16549	80419.30961	81261.51279	105362.3047
27559.74848	21789.66445	25129.80125	93603.61985	85813.81206	79790.26088	80636.16549	80419.30961	116342.9343
19548.49259	27559.74848	21789.66445	81917.16074	93603.61985	85813.81206	79790.26088	80636.16549	97701.03724
22739.31443	19548.49259	27559.74848	84891.37086	81917.16074	93603.61985	85813.81206	79790.26088	109924.7964
15783.8765	22739.31443	19548.49259	76961.03129	84891.37086	81917.16074	93603.61985	85813.81206	98914.02334
25033.42556	15783.8765	22739.31443	62493.49984	76961.03129	84891.37086	81917.16074	93603.61985	81118.02306
21952.99205	25033.42556	15783.8765	53017.00782	62493.49984	76961.03129	84891.37086	81917.16074	75781.18502
18624.52322	21952.99205	25033.42556	49090.64446	53017.00782	62493.49984	76961.03129	84891.37086	70940.48313
22764.1772	18624.52322	21952.99205	47171.20501	49090.64446	53017.00782	62493.49984	76961.03129	66378.55065
21849.83867	22764.1772	18624.52322	34659.35502	47171.20501	49090.64446	53017.00782	62493.49984	53894.90945
19207.34564	21849.83867	22764.1772	25966.84852	34659.35502	47171.20501	49090.64446	53017.00782	43667.33116
19235.55443	19207.34564	21849.83867	24097.91667	25966.84852	34659.35502	47171.20501	49090.64446	41697.1012
17700.48264	19235.55443	19207.34564	21915.88673	24097.91667	25966.84852	34659.35502	47171.20501	39667.66109

17599.18453	17700.48264	19235.55443	17584.21906	21915.88673	24097.91667	25966.84852	34659.35502	26623.88618
17751.77436	17599.18453	17700.48264	13975.82455	17584.21906	21915.88673	24097.91667	25966.84852	24015.00576
9039.66712	17751.77436	17599.18453	11113.2261	13975.82455	17584.21906	21915.88673	24097.91667	20354.81486
10039.18121	9039.66712	17751.77436	16181.89595	11113.2261	13975.82455	17584.21906	21915.88673	22446.72508
9241.58876	10039.18121	9039.66712	16634.26267	16181.89595	11113.2261	13975.82455	17584.21906	20647.51511
6264.82913	9241.58876	10039.18121	15636.69952	16634.26267	16181.89595	11113.2261	13975.82455	18739.62822
4013.25244	6264.82913	9241.58876	16947.90628	15636.69952	16634.26267	16181.89595	11113.2261	22508.74047
3102.9287	4013.25244	6264.82913	14033.07554	16947.90628	15636.69952	16634.26267	16181.89595	18208.47249
5560.83419	3102.9287	4013.25244	13696.62328	14033.07554	16947.90628	15636.69952	16634.26267	24670.33956
4175.39695	5560.83419	3102.9287	15847.43737	13696.62328	14033.07554	16947.90628	15636.69952	22349.97099
10973.71628	4175.39695	5560.83419	14952.668	15847.43737	13696.62328	14033.07554	16947.90628	19604.35646
6502.53362	10973.71628	4175.39695	12307.62464	14952.668	15847.43737	13696.62328	14033.07554	29166.60265
4651.68846	6502.53362	10973.71628	11220.87581	12307.62464	14952.668	15847.43737	13696.62328	24446.26247
16858.97801	4651.68846	6502.53362	11832.17184	11220.87581	12307.62464	14952.668	15847.43737	23587.07774
13225.38666	16858.97801	4651.68846	12361.1151	11832.17184	11220.87581	12307.62464	14952.668	24883.2963
11754.9059	13225.38666	16858.97801	13035.16788	12361.1151	11832.17184	11220.87581	12307.62464	31552.88559
12522.1812	11754.9059	13225.38666	14904.89683	13035.16788	12361.1151	11832.17184	11220.87581	28528.05211
18517.71771	12522.1812	11754.9059	19073.21659	14904.89683	13035.16788	12361.1151	11832.17184	31946.02367
13623.15528	18517.71771	12522.1812	19547.93734	19073.21659	14904.89683	13035.16788	12361.1151	38058.41103
12872.80708	13623.15528	18517.71771	18271.83258	19547.93734	19073.21659	14904.89683	13035.16788	34221.65769
18510.47369	12872.80708	13623.15528	20403.39279	18271.83258	19547.93734	19073.21659	14904.89683	37559.45355
15949.82511	18510.47369	12872.80708	22383.63489	20403.39279	18271.83258	19547.93734	19073.21659	43926.16251
17156.06076	15949.82511	18510.47369	22372.62498	22383.63489	20403.39279	18271.83258	19547.93734	43462.60459
21542.52762	17156.06076	15949.82511	25858.72031	22372.62498	22383.63489	20403.39279	18271.83258	48099.74848
21089.97961	21542.52762	17156.06076	29712.68729	25858.72031	22372.62498	22383.63489	20403.39279	51902.61533
22241.02817	21089.97961	21542.52762	32840.14495	29712.68729	25858.72031	22372.62498	22383.63489	57505.55654
22189.92804	22241.02817	21089.97961	36340.94713	32840.14495	29712.68729	25858.72031	22372.62498	62352.23184
24665.41159	22189.92804	22241.02817	40550.4618	36340.94713	32840.14495	29712.68729	25858.72031	68217.39594
26011.28471	24665.41159	22189.92804	44965.58043	40550.4618	36340.94713	32840.14495	29712.68729	74347.33183
27666.93414	26011.28471	24665.41159	48200.02818	44965.58043	40550.4618	36340.94713	32840.14495	79520.37744
29381.7514	27666.93414	26011.28471	51330.30752	48200.02818	44965.58043	40550.4618	36340.94713	82900.24087
31320.34926	29381.7514	27666.93414	53881.53419	51330.30752	48200.02818	44965.58043	40550.4618	85445.86566
31569.93335	31320.34926	29381.7514	55896.52516	53881.53419	51330.30752	48200.02818	44965.58043	87584.09648
31564.33147	31569.93335	31320.34926	56846.14115	55896.52516	53881.53419	51330.30752	48200.02818	88718.2503
31687.57132	31564.33147	31569.93335	57830.04346	56846.14115	55896.52516	53881.53419	51330.30752	90586.3388
31872.10915	31687.57132	31564.33147	57508.9618	57830.04346	56846.14115	55896.52516	53881.53419	90052.34458
32756.29534	31872.10915	31687.57132	57085.5764	57508.9618	57830.04346	56846.14115	55896.52516	89443.68406
32543.38278	32756.29534	31872.10915	57028.56651	57085.5764	57508.9618	57830.04346	56846.14115	89634.47946
32358.10766	32543.38278	32756.29534	56771.92475	57028.56651	57085.5764	57508.9618	57830.04346	90048.69809
32605.91295	32358.10766	32543.38278	56508.10441	56771.92475	57028.56651	57085.5764	57508.9618	89769.72002
33276.77334	32605.91295	32358.10766	56538.64417	56508.10441	56771.92475	57028.56651	57085.5764	90469.81402
33261.61561	33276.77334	32605.91295	56393.2031	56538.64417	56508.10441	56771.92475	57028.56651	91644.66174
33931.16985	33261.61561	33276.77334	56369.53736	56393.2031	56538.64417	56508.10441	56771.92475	92025.22613
35251.45864	33931.16985	33261.61561	56011.1686	56369.53736	56393.2031	56538.64417	56508.10441	91670.55699
35655.68877	35251.45864	33931.16985	56063.74091	56011.1686	56369.53736	56393.2031	56538.64417	91998.50542
35659.38839	35655.68877	35251.45864	56083.65372	56063.74091	56011.1686	56369.53736	56393.2031	92054.92874
35934.76451	35659.38839	35655.68877	55725.96712	56083.65372	56063.74091	56011.1686	56369.53736	91225.28122
35971.27502	35934.76451	35659.38839	55229.27893	55725.96712	56083.65372	56063.74091	56011.1686	90421.28074
35499.3141	35971.27502	35934.76451	54957.55431	55229.27893	55725.96712	56083.65372	56063.74091	89919.2979
35192.00181	35499.3141	35971.27502	54472.35255	54957.55431	55229.27893	55725.96712	56083.65372	89204.89787
34961.74359	35192.00181	35499.3141	53981.02823	54472.35255	54957.55431	55229.27893	55725.96712	88032.66003
34732.54532	34961.74359	35192.00181	53307.66235	53981.02823	54472.35255	54957.55431	55229.27893	87236.62373
34051.6318	34732.54532	34961.74359	52883.59174	53307.66235	53981.02823	54472.35255	54957.55431	86855.02802
33928.96138	34051.6318	34732.54532	52408.8878	52883.59174	53307.66235	53981.02823	54472.35255	86207.4507
33971.43628	33928.96138	34051.6318	52043.40046	52408.8878	52883.59174	53307.66235	53981.02823	85877.53244
33798.5629	33971.43628	33928.96138	51660.6168	52043.40046	52408.8878	52883.59174	53307.66235	85445.33929
33834.13198	33798.5629	33971.43628	51395.27234	51660.6168	52043.40046	52408.8878	52883.59174	85329.30784
33784.72249	33834.13198	33798.5629	51280.90455	51395.27234	51660.6168	52043.40046	52408.8878	85104.80176
33934.0355	33784.72249	33834.13198	51375.96186	51280.90455	51395.27234	51660.6168	52043.40046	85318.53981
33823.89721	33934.0355	33784.72249	51141.39451	51375.96186	51280.90455	51395.27234	51660.6168	84984.57309

33942.57795	33823.89721	33934.0355	50907.32862	51141.39451	51375.96186	51280.90455	51395.27234	85054.13026
33843.17858	33942.57795	33823.89721	50472.80129	50907.32862	51141.39451	51375.96186	51280.90455	84789.5753
34146.80164	33843.17858	33942.57795	50427.41783	50472.80129	50907.32862	51141.39451	51375.96186	85212.29541
34316.77401	34146.80164	33843.17858	50305.37268	50427.41783	50472.80129	50907.32862	51141.39451	85730.82635
34784.87758	34316.77401	34146.80164	50021.21006	50305.37268	50427.41783	50472.80129	50907.32862	86114.95863
35425.45367	34784.87758	34316.77401	50265.13291	50021.21006	50305.37268	50427.41783	50472.80129	86784.95981
36093.74857	35425.45367	34784.87758	50676.36134	50265.13291	50021.21006	50305.37268	50427.41783	87697.64929
36519.8269	36093.74857	35425.45367	50903.19373	50676.36134	50265.13291	50021.21006	50305.37268	88141.17853
37021.28795	36519.8269	36093.74857	50987.39411	50903.19373	50676.36134	50265.13291	50021.21006	88590.12309
37237.9848	37021.28795	36519.8269	51028.01945	50987.39411	50903.19373	50676.36134	50265.13291	89012.39104
37602.72898	37237.9848	37021.28795	50994.9299	51028.01945	50987.39411	50903.19373	50676.36134	89533.55412
37984.37159	37602.72898	37237.9848	50739.0818	50994.9299	51028.01945	50987.39411	50903.19373	89425.76001
38538.62422	37984.37159	37602.72898	50560.71944	50739.0818	50994.9299	51028.01945	50987.39411	89403.1437
38686.67821	38538.62422	37984.37159	50154.55894	50560.71944	50739.0818	50994.9299	51028.01945	88955.33399
38842.42426	38686.67821	38538.62422	50318.61399	50154.55894	50560.71944	50739.0818	50994.9299	89218.83948
38800.77505	38842.42426	38686.67821	50045.29949	50318.61399	50154.55894	50560.71944	50739.0818	88891.88158
38900.22549	38800.77505	38842.42426	49489.05913	50045.29949	50318.61399	50154.55894	50560.71944	88206.76037
38846.58209	38900.22549	38800.77505	48899.77431	49489.05913	50045.29949	50318.61399	50154.55894	87241.01498
38717.70124	38846.58209	38900.22549	48454.2958	48899.77431	49489.05913	50045.29949	50318.61399	87377.1882
38341.24067	38717.70124	38846.58209	48031.41157	48454.2958	48899.77431	49489.05913	50045.29949	87320.92328
38922.8924	38341.24067	38717.70124	47578.79069	48031.41157	48454.2958	48899.77431	49489.05913	87121.95955
39289.51171	38922.8924	38341.24067	47203.63119	47578.79069	48031.41157	48454.2958	48899.77431	86764.6685
39543.16886	39289.51171	38922.8924	47371.14944	47203.63119	47578.79069	48031.41157	48454.2958	87377.54117
39561.03731	39543.16886	39289.51171	47466.19077	47371.14944	47203.63119	47578.79069	48031.41157	87618.53244
40006.39173	39561.03731	39543.16886	47528.33869	47466.19077	47371.14944	47203.63119	47578.79069	87687.9226
40152.34167	40006.39173	39561.03731	47580.43072	47528.33869	47466.19077	47371.14944	47203.63119	87647.35833
40159.58391	40152.34167	40006.39173	47499.38405	47580.43072	47528.33869	47466.19077	47371.14944	88291.93385
40066.92761	40159.58391	40152.34167	47399.9578	47499.38405	47580.43072	47528.33869	47466.19077	88388.67723
40792.5498	40066.92761	40159.58391	47639.92527	47399.9578	47499.38405	47580.43072	47528.33869	88520.81908
40988.71943	40792.5498	40066.92761	47718.65421	47639.92527	47399.9578	47499.38405	47580.43072	88641.45009
40880.89381	40988.71943	40792.5498	47661.83191	47718.65421	47639.92527	47399.9578	47499.38405	88972.05766
40922.79588	40880.89381	40988.71943	46880.62142	47661.83191	47718.65421	47639.92527	47399.9578	87738.92196
41310.22575	40922.79588	40880.89381	46327.72724	46880.62142	47661.83191	47718.65421	47639.92527	87035.19596
40858.30054	41310.22575	40922.79588	45968.8905	46327.72724	46880.62142	47718.65421	47718.65421	86747.39228
40707.46872	40858.30054	41310.22575	45689.43741	45968.8905	46327.72724	46880.62142	47661.83191	86862.41055
40778.50178	40707.46872	40858.30054	44987.26343	45689.43741	45968.8905	46327.72724	46880.62142	85658.11607
41172.97314	40778.50178	40707.46872	44459.15804	44987.26343	45689.43741	45968.8905	46327.72724	84933.59396
40670.85264	41172.97314	40778.50178	44355.83323	44459.15804	44987.26343	45689.43741	45968.8905	84880.37056
40474.43592	40670.85264	41172.97314	44602.23165	44355.83323	44459.15804	44987.26343	45689.43741	85547.50146
40524.53733	40474.43592	40670.85264	44638.78063	44602.23165	44355.83323	44459.15804	44987.26343	85226.77004
40945.26981	40524.53733	40474.43592	44702.08498	44638.78063	44602.23165	44355.83323	44459.15804	85141.56549
40587.98941	40945.26981	40524.53733	44938.58947	44702.08498	44638.78063	44602.23165	44355.83323	85457.14027
40439.48051	40587.98941	40945.26981	45192.18789	44938.58947	44702.08498	44638.78063	44602.23165	86171.06131
40518.5508	40439.48051	40587.98941	45025.25372	45192.18789	44938.58947	44702.08498	44638.78063	85559.4233
40978.87342	40518.5508	40439.48051	44982.59684	45025.25372	45192.18789	44938.58947	44702.08498	85749.60401
40534.16958	40978.87342	40518.5508	45311.01616	44982.59684	45025.25372	45192.18789	44938.58947	86069.20393
40767.00717	40534.16958	40978.87342	45760.13902	45311.01616	44982.59684	45025.25372	45192.18789	86875.52273
40758.18777	40767.00717	40534.16958	45901.71257	45760.13902	45311.01616	44982.59684	45025.25372	86569.01293
41115.38371	40758.18777	40767.00717	45997.27254	45901.71257	45760.13902	45311.01616	44982.59684	86801.10998
40667.30036	41115.38371	40758.18777	46162.47834	45997.27254	45901.71257	45760.13902	45311.01616	86920.02266
40803.83744	40667.30036	41115.38371	46174.93893	46162.47834	45997.27254	45901.71257	45760.13902	87320.69336
40757.54432	40803.83744	40667.30036	45864.00793	46174.93893	46162.47834	45997.27254	45901.71257	86575.03019
41145.75443	40757.54432	40803.83744	45613.88708	45864.00793	46174.93893	46162.47834	45997.27254	86532.41181
40711.02226	41145.75443	40757.54432	45623.99982	45613.88708	45864.00793	46174.93893	46162.47834	86541.11495
40918.52473	40711.02226	41145.75443	45830.48526	45623.99982	45613.88708	45864.00793	46174.93893	87047.64156
40917.11513	40918.52473	40711.02226	45926.58296	45830.48526	45623.99982	45613.88708	45864.00793	86995.15948
41217.1563	40917.11513	40918.52473	46106.93194	45926.58296	45830.48526	45623.99982	45613.88708	87271.79894
41068.57652	41217.1563	40917.11513	46311.14282	46106.93194	45926.58296	45830.48526	45623.99982	87352.62026
41164.867	41068.57652	41217.1563	46581.56514	46311.14282	46106.93194	45926.58296	45830.48526	87780.0191
41041.47744	41164.867	41068.57652	46526.20489	46581.56514	46311.14282	46106.93194	45926.58296	87588.22632

41198.45396	41041.47744	41164.867	46412.05275	46526.20489	46581.56514	46311.14282	46106.93194	87451.71021
41062.02143	41198.45396	41041.47744	46359.09843	46412.05275	46526.20489	46581.56514	46311.14282	87287.17909
41039.65746	41062.02143	41198.45396	46415.2983	46359.09843	46412.05275	46526.20489	46581.56514	87513.13561
40928.08066	41039.65746	41062.02143	46138.49262	46415.2983	46359.09843	46412.05275	46526.20489	87105.76635
41097.83731	40928.08066	41039.65746	45966.5962	46138.49262	46415.2983	46359.09843	46412.05275	86923.48551
40967.27373	41097.83731	40928.08066	46087.03909	45966.5962	46138.49262	46415.2983	46359.09843	86858.02616
40956.88931	40967.27373	41097.83731	46405.35574	46087.03909	45966.5962	46138.49262	46415.2983	87525.01494
40770.98707	40956.88931	40967.27373	46566.24978	46405.35574	46087.03909	45966.5962	46138.49262	87670.76512
41119.6592	40770.98707	40956.88931	46696.86433	46566.24978	46405.35574	46087.03909	45966.5962	87127.46072
41104.51534	41119.6592	40770.98707	46890.22753	46696.86433	46566.24978	46405.35574	46087.03909	88208.97288
40430.59639	41104.51534	41119.6592	47100.47399	46890.22753	46696.86433	46566.24978	46405.35574	88644.23112
41318.74535	40430.59639	41104.51534	47053.86468	47100.47399	46890.22753	46696.86433	46566.24978	88695.04282
41543.75713	41318.74535	40430.59639	46976.68293	47053.86468	47100.47399	46890.22753	46696.86433	88755.45996
41641.17814	41543.75713	41318.74535	46889.72985	46976.68293	47053.86468	47100.47399	46890.22753	88799.65931

HSTOTL1	HSTOTL2	HSTOTL3	HSTOTL4	HPSF	HPSFL1	HPSFL2	HPSFL3	HPSFL4	HPMF	HPMFL1
				17103					12911	
113326.2667				14843	17103				12637	12911
106371.2003	113326.2667			12081	14843	17103			12368	12637
98659.24513	106371.2003	113326.2667		9501	12081	14843	17103		8131	12368
79435.86732	98659.24513	106371.2003	113326.2667	8116	9501	12081	14843	17103	6741	8131
57777.92641	79435.86732	98659.24513	106371.2003	10746	8116	9501	12081	14843	9956	6741
69064.86389	57777.92641	79435.86732	98659.24513	10150	10746	8116	9501	12081	9594	9956
77693.17387	69064.86389	57777.92641	79435.86732	8701	10150	10746	8116	9501	6372	9594
64524.39663	77693.17387	69064.86389	57777.92641	11014	8701	10150	10746	8116	9676	6372
66142.00608	64524.39663	77693.17387	69064.86389	5169	11014	8701	10150	10746	6970	9676
41860.4411	66142.00608	64524.39663	77693.17387	4019	5169	11014	8701	10150	4567	6970
38100.82161	41860.4411	66142.00608	64524.39663	4235	4019	5169	11014	8701	3126	4567
33654.27635	38100.82161	41860.4411	66142.00608	6540	4235	4019	5169	11014	5599	3126
37238.55243	33654.27635	38100.82161	41860.4411	5781	6540	4235	4019	5169	4870	5599
40007.34935	37238.55243	33654.27635	38100.82161	6614	5781	6540	4235	4019	4960	4870
45576.22398	40007.34935	37238.55243	33654.27635	8792	6614	5781	6540	4235	5871	4960
65336.1753	45576.22398	40007.34935	37238.55243	16600	8792	6614	5781	6540	10554	5871
83919.65811	65336.1753	45576.22398	40007.34935	11918	16600	8792	6614	5781	11502	10554
91985.50638	83919.65811	65336.1753	45576.22398	12548	11918	16600	8792	6614	10803	11502
99686.25105	91985.50638	83919.65811	65336.1753	14788	12548	11918	16600	8792	12823	10803
133630.5523	99686.25105	91985.50638	83919.65811	17315	14788	12548	11918	16600	16540	12823
113475.3711	133630.5523	99686.25105	91985.50638	12872	17315	14788	12548	11918	16012	16540
106085.8851	113475.3711	133630.5523	99686.25105	12424	12872	17315	14788	12548	16276	16012
110022.9945	106085.8851	113475.3711	133630.5523	13991	12424	12872	17315	14788	15866	16276
136819.9697	110022.9945	106085.8851	113475.3711	15151	13991	12424	12872	17315	20673	15866
128659.8637	136819.9697	110022.9945	106085.8851	13423	15151	13991	12424	12872	27504	20673
132906.04	128659.8637	136819.9697	110022.9945	13331	13423	15151	13991	12424	20652	27504
152780.6011	132906.04	128659.8637	136819.9697	15259	13331	13423	15151	13991	22920	20652
160778.0352	152780.6011	132906.04	128659.8637	20877	15259	13331	13423	15151	23063	22920
166989.4131	160778.0352	152780.6011	132906.04	18124	20877	15259	13331	13423	22014	23063
148558.6223	166989.4131	160778.0352	152780.6011	22996	18124	20877	15259	13331	28910	22014
188612.7458	148558.6223	166989.4131	160778.0352	19298	22996	18124	20877	15259	20009	28910
182077.4348	188612.7458	148558.6223	166989.4131	18356	19298	22996	18124	20877	19817	20009
143170.9957	182077.4348	188612.7458	148558.6223	17353	18356	19298	22996	18124	16537	19817
142016.8496	143170.9957	182077.4348	188612.7458	15146	17353	18356	19298	22996	15386	16537
130554.5774	142016.8496	143170.9957	182077.4348	19419	15146	17353	18356	19298	12829	15386
145271.8931	130554.5774	142016.8496	143170.9957	26196	19419	15146	17353	18356	14763	12829
133118.1668	145271.8931	130554.5774	142016.8496	21680	26196	19419	15146	17353	14899	14763
139041.9898	133118.1668	145271.8931	130554.5774	20682	21680	26196	19419	15146	14866	14899
152392.5672	139041.9898	133118.1668	145271.8931	20393	20682	21680	26196	19419	10885	14866
139163.213	152392.5672	139041.9898	133118.1668	25711	20393	20682	21680	26196	13506	10885
135812.3208	139163.213	152392.5672	139041.9898	22518	25711	20393	20682	21680	9709	13506
127900.7812	135812.3208	139163.213	152392.5672	19890	22518	25711	20393	20682	12471	9709
129173.2991	127900.7812	135812.3208	139163.213	16021	19890	22518	25711	20393	10228	12471
125439.9466	129173.2991	127900.7812	135812.3208	15603	16021	19890	22518	25711	12322	10228
91702.62897	125439.9466	129173.2991	127900.7812	10670	15603	16021	19890	22518	5694	12322
81189.98676	91702.62897	125439.9466	129173.2991	8273	10670	15603	16021	19890	5442	5694
60521.10435	81189.98676	91702.62897	125439.9466	7748	8273	10670	15603	16021	3961	5442
46400.62811	60521.10435	81189.98676	91702.62897	11230	7748	8273	10670	15603	5888	3961
59269.19691	46400.62811	60521.10435	81189.98676	8981	11230	7748	8273	10670	4115	5888
57010.95573	59269.19691	46400.62811	60521.10435	8077	8981	11230	7748	8273	4129	4115
56137.89632	57010.95573	59269.19691	46400.62811	8540	8077	8981	11230	7748	2686	4129
54059.50865	56137.89632	57010.95573	59269.19691	11530	8540	8077	8981	11230	2838	2686
53135.67107	54059.50865	56137.89632	57010.95573	8340	11530	8540	8077	8981	2800	2838
49813.79689	53135.67107	54059.50865	56137.89632	9179	8340	11530	8540	8077	3618	2800
51095.18886	49813.79689	53135.67107	54059.50865	8400	9179	8340	11530	8540	2149	3618
45495.5885	51095.18886	49813.79689	53135.67107	9703	8400	9179	8340	11530	1788	2149

48095.16782	45495.5885	51095.18886	49813.79689	7593	9703	8400	9179	8340	1798	1788
40121.53983	48095.16782	45495.5885	51095.18886	7413	7593	9703	8400	9179	1225	1798
40883.44975	40121.53983	48095.16782	45495.5885	8711	7413	7593	9703	8400	1620	1225
49737.06764	40883.44975	40121.53983	48095.16782	11280	8711	7413	7593	9703	4567	1620
48190.617	49737.06764	40883.44975	40121.53983	9106	11280	8711	7413	7593	2137	4567
51920.46692	48190.617	49737.06764	40883.44975	8004	9106	11280	8711	7413	3279	2137
49100.08635	51920.46692	48190.617	49737.06764	6861	8004	9106	11280	8711	1932	3279
43622.64438	49100.08635	51920.46692	48190.617	9453	6861	8004	9106	11280	2336	1932
40152.55747	43622.64438	49100.08635	51920.46692	9123	9453	6861	8004	9106	1920	2336
43277.03935	40152.55747	43622.64438	49100.08635	7914	9123	9453	6861	8004	2226	1920
42242.9968	43277.03935	40152.55747	43622.64438	8060	7914	9123	9453	6861	2251	2226
48097.72489	42242.9968	43277.03935	40152.55747	10339	8060	7914	9123	9453	2366	2251
47865.00325	48097.72489	42242.9968	43277.03935	9473	10339	8060	7914	9123	1590	2366
42859.11847	47865.00325	48097.72489	42242.9968	7878	9473	10339	8060	7914	2360	1590
41589.13764	42859.11847	47865.00325	48097.72489	8502	7878	9473	10339	8060	1761	2360
49746.79859	41589.13764	42859.11847	47865.00325	10770	8502	7878	9473	10339	3434	1761
50996.00547	49746.79859	41589.13764	42859.11847	10538	10770	8502	7878	9473	2724	3434
45977.87499	50996.00547	49746.79859	41589.13764	9773	10538	10770	8502	7878	2939	2724
54672.68773	45977.87499	50996.00547	49746.79859	9439	9773	10538	10770	8502	1664	2939
51242.2625	54672.68773	45977.87499	50996.00547	12581	9439	9773	10538	10770	3292	1664
54194.25036	51242.2625	54672.68773	45977.87499	11856	12581	9439	9773	10538	3084	3292
57725.65413	54194.25036	51242.2625	54672.68773	10033	11856	12581	9439	9773	3481	3084
54089.05382	57725.65413	54194.25036	51242.2625	10872	10033	11856	12581	9439	3316	3481
59850.67927	54089.05382	57725.65413	54194.25036	14511	10872	10033	11856	12581	2830	3316
56470.46325	59850.67927	54089.05382	57725.65413	12238	14511	10872	10033	11856	3933	2830
63134.67956	56470.46325	59850.67927	54089.05382	10829	12238	14511	10872	10033	5542	3933
60798.601	63134.67956	56470.46325	59850.67927	10492	10829	12238	14511	10872	5351	5542
66039.80531	60798.601	63134.67956	56470.46325	13892	10492	10829	12238	14511	5391	5351
54271.56482	66039.80531	60798.601	63134.67956	12298	13892	10492	10829	12238	4252	5391
64121.75247	54271.56482	66039.80531	60798.601	11648	12298	13892	10492	10829	3632	4252
62448.85617	64121.75247	54271.56482	66039.80531	12609	11648	12298	13892	10492	4587	3632
69754.58881	62448.85617	64121.75247	54271.56482	15406	12609	11648	12298	13892	4338	4587
69618.72717	69754.58881	62448.85617	64121.75247	12830	15406	12609	11648	12298	3436	4338
63919.67893	69618.72717	69754.58881	62448.85617	12362	12830	15406	12609	11648	6303	3436
66325.75818	63919.67893	69618.72717	69754.58881	12631	12362	12830	15406	12609	4197	6303
74946.59925	66325.75818	63919.67893	69618.72717	15671	12631	12362	12830	15406	4577	4197
69831.85149	74946.59925	66325.75818	63919.67893	16712	15671	12631	12362	12830	6277	4577
75712.25549	69831.85149	74946.59925	66325.75818	15776	16712	15671	12631	12362	7503	6277
88566.46184	75712.25549	69831.85149	74946.59925	17538	15776	16712	15671	12631	7084	7503
92428.42808	88566.46184	75712.25549	69831.85149	19813	17538	15776	16712	15671	7106	7084
99307.26886	92428.42808	88566.46184	75712.25549	17193	19813	17538	15776	16712	4863	7106
81293.05068	99307.26886	92428.42808	88566.46184	16533	17193	19813	17538	15776	7659	4863
100652.2129	81293.05068	99307.26886	92428.42808	19654	16533	17193	19813	17538	7824	7659
103215.8214	100652.2129	81293.05068	99307.26886	23204	19654	16533	17193	19813	8206	7824
103391.5294	103215.8214	100652.2129	81293.05068	19835	23204	19654	16533	17193	6971	8206
105549.1109	103391.5294	103215.8214	100652.2129	17976	19835	23204	19654	16533	11831	6971
102425.8299	105549.1109	103391.5294	103215.8214	19294	17976	19835	23204	19654	6238	11831
107350.0094	102425.8299	105549.1109	103391.5294	25200	19294	17976	19835	23204	7376	6238
105362.3047	107350.0094	102425.8299	105549.1109	24603	25200	19294	17976	19835	7725	7376
116342.9343	105362.3047	107350.0094	102425.8299	17978	24603	25200	19294	17976	6629	7725
97701.03724	116342.9343	105362.3047	107350.0094	18716	17978	24603	25200	19294	9261	6629
109924.7964	97701.03724	116342.9343	105362.3047	23328	18716	17978	24603	25200	7553	9261
98914.02334	109924.7964	97701.03724	116342.9343	13602	23328	18716	17978	24603	6550	7553
81118.02306	98914.02334	109924.7964	97701.03724	10633	13602	23328	18716	17978	7752	6550
75781.18502	81118.02306	98914.02334	109924.7964	12288	10633	13602	23328	18716	7713	7752
70940.48313	75781.18502	81118.02306	98914.02334	12492	12288	10633	13602	23328	5910	7713
66378.55065	70940.48313	75781.18502	81118.02306	7915	12492	12288	10633	13602	7664	5910
53894.90945	66378.55065	70940.48313	75781.18502	5773	7915	12492	12288	10633	5846	7664
43667.33116	53894.90945	66378.55065	70940.48313	4421	5773	7915	12492	12288	4728	5846
41697.1012	43667.33116	53894.90945	66378.55065	6215	4421	5773	7915	12492	5344	4728

39667.66109	41697.1012	43667.33116	53894.90945	3940	6215	4421	5773	7915	3411	5344
26623.88618	39667.66109	41697.1012	43667.33116	2772	3940	6215	4421	5773	4780	3411
24015.00576	26623.88618	39667.66109	41697.1012	2630	2772	3940	6215	4421	2192	4780
20354.81486	24015.00576	26623.88618	39667.66109	4287	2630	2772	3940	6215	1375	2192
22446.72508	20354.81486	24015.00576	26623.88618	3711	4287	2630	2772	3940	1785	1375
20647.51511	22446.72508	20354.81486	24015.00576	3764	3711	4287	2630	2772	1556	1785
18739.62822	20647.51511	22446.72508	20354.81486	3493	3764	3711	4287	2630	2599	1556
22508.74047	18739.62822	20647.51511	22446.72508	3800	3493	3764	3711	4287	1865	2599
18208.47249	22508.74047	18739.62822	20647.51511	3213	3800	3493	3764	3711	3047	1865
24670.33956	18208.47249	22508.74047	18739.62822	4032	3213	3800	3493	3764	2400	3047
22349.97099	24670.33956	18208.47249	22508.74047	2351	4032	3213	3800	3493	2827	2400
19604.35646	22349.97099	24670.33956	18208.47249	3547	2351	4032	3213	3800	4269	2827
29166.60265	19604.35646	22349.97099	24670.33956	2610	3547	2351	4032	3213	3212	4269
24446.26247	29166.60265	19604.35646	22349.97099	2712	2610	3547	2351	4032	3965	3212
23587.07774	24446.26247	29166.60265	19604.35646	2868	2712	2610	3547	2351	5598	3965
24883.2963	23587.07774	24446.26247	29166.60265	2999	2868	2712	2610	3547	6794	5598
31552.88559	24883.2963	23587.07774	24446.26247	3213	2999	2868	2712	2610	7717	6794
28528.05211	31552.88559	24883.2963	23587.07774	3801	3213	2999	2868	2712	8208	7717
31946.02367	28528.05211	31552.88559	24883.2963	4665	3801	3213	2999	2868	8632	8208
38058.41103	31946.02367	28528.05211	31552.88559	5813	4665	3801	3213	2999	8931	8632
34221.65769	38058.41103	31946.02367	28528.05211	7743	5813	4665	3801	3213	9175	8931
37559.45355	34221.65769	38058.41103	31946.02367	9112	7743	5813	4665	3801	9191	9175
43926.16251	37559.45355	34221.65769	38058.41103	10242	9112	7743	5813	4665	9564	9191
43462.60459	43926.16251	37559.45355	34221.65769	11318	10242	9112	7743	5813	9865	9564
48099.74848	43462.60459	43926.16251	37559.45355	12463	11318	10242	9112	7743	10205	9865
51902.61533	48099.74848	43462.60459	43926.16251	13340	12463	11318	10242	9112	10607	10205
57505.55654	51902.61533	48099.74848	43462.60459	13995	13340	12463	11318	10242	11126	10607
62352.23184	57505.55654	51902.61533	48099.74848	14547	13995	13340	12463	11318	11356	11126
68217.39594	62352.23184	57505.55654	51902.61533	14992	14547	13995	13340	12463	11650	11356
74347.33183	68217.39594	62352.23184	57505.55654	15171	14992	14547	13995	13340	11807	11650
79520.37744	74347.33183	68217.39594	62352.23184	15280	15171	14992	14547	13995	12009	11807
82900.24087	79520.37744	74347.33183	68217.39594	15220	15280	15171	14992	14547	12197	12009
85445.86566	82900.24087	79520.37744	74347.33183	15173	15220	15280	15171	14992	12465	12197
87584.09648	85445.86566	82900.24087	79520.37744	15222	15173	15220	15280	15171	12857	12465
88718.2503	87584.09648	85445.86566	82900.24087	15504	15222	15173	15220	15280	13216	12857
90586.3388	88718.2503	87584.09648	85445.86566	15468	15504	15222	15173	15220	13363	13216
90052.34458	90586.3388	88718.2503	87584.09648	15479	15468	15504	15222	15173	13607	13363
89443.68406	90052.34458	90586.3388	88718.2503	15469	15479	15468	15504	15222	13826	13607
89634.47946	89443.68406	90052.34458	90586.3388	15378	15469	15479	15468	15504	14036	13826
90048.69809	89634.47946	89443.68406	90052.34458	15338	15378	15469	15479	15468	14050	14036
89769.72002	90048.69809	89634.47946	89443.68406	15344	15338	15378	15469	15479	13976	14050
90469.81402	89769.72002	90048.69809	89634.47946	15270	15344	15338	15378	15469	13972	13976
91644.66174	90469.81402	89769.72002	90048.69809	15179	15270	15344	15338	15378	13970	13972
92025.22613	91644.66174	90469.81402	89769.72002	15067	15179	15270	15344	15338	13951	13970
91670.55699	92025.22613	91644.66174	90469.81402	14977	15067	15179	15270	15344	13921	13951
91998.50542	91670.55699	92025.22613	91644.66174	14895	14977	15067	15179	15270	13890	13921
92054.92874	91998.50542	91670.55699	92025.22613	14763	14895	14977	15067	15179	13933	13890
91225.28122	92054.92874	91998.50542	91670.55699	14641	14763	14895	14977	15067	13930	13933
90421.28074	91225.28122	92054.92874	91998.50542	14595	14641	14763	14895	14977	13965	13930
89919.2979	90421.28074	91225.28122	92054.92874	14470	14595	14641	14763	14895	13968	13965
89204.89787	89919.2979	90421.28074	91225.28122	14334	14470	14595	14641	14763	13893	13968
88032.66003	89204.89787	89919.2979	90421.28074	14177	14334	14470	14595	14641	13800	13893
87236.62373	88032.66003	89204.89787	89919.2979	14035	14177	14334	14470	14595	13697	13800
86855.02802	87236.62373	88032.66003	89204.89787	13900	14035	14177	14334	14470	13528	13697
86207.4507	86855.02802	87236.62373	88032.66003	13825	13900	14035	14177	14334	13440	13528
85877.53244	86207.4507	86855.02802	87236.62373	13697	13825	13900	14035	14177	13421	13440
85445.33929	85877.53244	86207.4507	86855.02802	13580	13697	13825	13900	14035	13554	13421
85329.30784	85445.33929	85877.53244	86207.4507	13552	13580	13697	13825	13900	13570	13554
85104.80176	85329.30784	85445.33929	85877.53244	13677	13552	13580	13697	13825	13570	13570
85318.53981	85104.80176	85329.30784	85445.33929	13805	13677	13552	13580	13697	13481	13570

84984.57309	85318.53981	85104.80176	85329.30784	13915	13805	13677	13552	13580	13556	13481
85054.13026	84984.57309	85318.53981	85104.80176	13935	13915	13805	13677	13552	13474	13556
84789.5753	85054.13026	84984.57309	85318.53981	14084	13935	13915	13805	13677	13612	13474
85212.29541	84789.5753	85054.13026	84984.57309	14161	14084	13935	13915	13805	13629	13612
85730.82635	85212.29541	84789.5753	85054.13026	14217	14161	14084	13935	13915	13704	13629
86114.95863	85730.82635	85212.29541	84789.5753	14274	14217	14161	14084	13935	13638	13704
86784.95981	86114.95863	85730.82635	85212.29541	14353	14274	14217	14161	14084	13860	13638
87697.64929	86784.95981	86114.95863	85730.82635	14438	14353	14274	14217	14161	13910	13860
88141.17853	87697.64929	86784.95981	86114.95863	14472	14438	14353	14274	14217	14040	13910
88590.12309	88141.17853	87697.64929	86784.95981	14492	14472	14438	14353	14274	14168	14040
89012.39104	88590.12309	88141.17853	87697.64929	14415	14492	14472	14438	14353	14423	14168
89533.55412	89012.39104	88590.12309	88141.17853	14374	14415	14492	14472	14438	14493	14423
89425.76001	89533.55412	89012.39104	88590.12309	14321	14374	14415	14492	14472	14589	14493
89403.1437	89425.76001	89533.55412	89012.39104	14186	14321	14374	14415	14492	14593	14589
88955.33399	89403.1437	89425.76001	89533.55412	14023	14186	14321	14374	14415	14796	14593
89218.83948	88955.33399	89403.1437	89425.76001	13869	14023	14186	14321	14374	14875	14796
88891.88158	89218.83948	88955.33399	89403.1437	13714	13869	14023	14186	14321	14940	14875
88206.76037	88891.88158	89218.83948	88955.33399	13488	13714	13869	14023	14186	14918	14940
87241.01498	88206.76037	88891.88158	89218.83948	13285	13488	13714	13869	14023	15096	14918
87377.1882	87241.01498	88206.76037	88891.88158	13129	13285	13488	13714	13869	15173	15096
87320.92328	87377.1882	87241.01498	88206.76037	12996	13129	13285	13488	13714	15276	15173
87121.95955	87320.92328	87377.1882	87241.01498	12863	12996	13129	13285	13488	15290	15276
86764.6685	87121.95955	87320.92328	87377.1882	12772	12863	12996	13129	13285	15479	15290
87377.54117	86764.6685	87121.95955	87320.92328	12732	12772	12863	12996	13129	15545	15479
87618.53244	87377.54117	86764.6685	87121.95955	12726	12732	12772	12863	12996	15539	15545
87687.9226	87618.53244	87377.54117	86764.6685	12709	12726	12732	12772	12863	15570	15539
87647.35833	87687.9226	87618.53244	87377.54117	12729	12709	12726	12732	12772	15783	15570
88291.93385	87647.35833	87687.9226	87618.53244	12793	12729	12709	12726	12732	15818	15783
88388.67723	88291.93385	87647.35833	87687.9226	12854	12793	12729	12709	12726	15740	15818
88520.81908	88388.67723	88291.93385	87647.35833	12844	12854	12793	12729	12709	15772	15740
88641.45009	88520.81908	88388.67723	88291.93385	12786	12844	12854	12793	12729	16032	15772
88972.05766	88641.45009	88520.81908	88388.67723	12657	12786	12844	12854	12793	15843	16032
87738.92196	88972.05766	88641.45009	88520.81908	12653	12657	12786	12844	12854	15846	15843
87035.19596	87738.92196	88972.05766	88641.45009	12648	12653	12657	12786	12844	15882	15846
86747.39228	87035.19596	87738.92196	88972.05766	12651	12648	12653	12657	12786	16021	15882
86862.41055	86747.39228	87035.19596	87738.92196	12663	12651	12648	12653	12657	15809	16021
85658.11607	86862.41055	86747.39228	87035.19596	12676	12663	12651	12648	12653	15780	15809
84933.59396	85658.11607	86862.41055	86747.39228	12694	12676	12663	12651	12648	15840	15780
84880.37056	84933.59396	85658.11607	86862.41055	12732	12694	12676	12663	12651	16042	15840
85547.50146	84880.37056	84933.59396	85658.11607	12783	12732	12694	12676	12663	15886	16042
85226.77004	85547.50146	84880.37056	84933.59396	12841	12783	12732	12694	12676	15833	15886
85141.56549	85226.77004	85547.50146	84880.37056	12894	12841	12783	12732	12694	15889	15833
85457.14027	85141.56549	85226.77004	85547.50146	12936	12894	12841	12783	12732	16075	15889
86171.06131	85457.14027	85141.56549	85226.77004	12976	12936	12894	12841	12783	15888	16075
85559.4233	86171.06131	85457.14027	85141.56549	13019	12976	12936	12894	12841	16037	15888
85749.60401	85559.4233	86171.06131	85457.14027	13064	13019	12976	12936	12894	16097	16037
86069.20393	85749.60401	85559.4233	86171.06131	13109	13064	13019	12976	12936	16276	16097
86875.52273	86069.20393	85749.60401	85559.4233	13153	13109	13064	13019	12976	16079	16276
86569.01293	86875.52273	86069.20393	85749.60401	13200	13153	13109	13064	13019	16169	16079
86801.10998	86569.01293	86875.52273	86069.20393	13243	13200	13153	13109	13064	16162	16169
86920.02266	86801.10998	86569.01293	86875.52273	13274	13243	13200	13153	13109	16301	16162
87320.69336	86920.02266	86801.10998	86569.01293	13293	13274	13243	13200	13153	16074	16301
86575.03019	87320.69336	86920.02266	86801.10998	13311	13293	13274	13243	13200	16181	16074
86532.41181	86575.03019	87320.69336	86920.02266	13324	13311	13293	13274	13243	16206	16181
86541.11495	86532.41181	86575.03019	87320.69336	13334	13324	13311	13293	13274	16318	16206
87047.64156	86541.11495	86532.41181	86575.03019	13345	13334	13324	13311	13293	16265	16318
86995.15948	87047.64156	86541.11495	86532.41181	13360	13345	13334	13324	13311	16281	16265
87271.79894	86995.15948	87047.64156	86541.11495	13371	13360	13345	13334	13324	16210	16281
87352.62026	87271.79894	86995.15948	87047.64156	13387	13371	13360	13345	13334	16241	16210
87780.0191	87352.62026	87271.79894	86995.15948	13400	13387	13371	13360	13345	16161	16241

87588.22632	87780.0191	87352.62026	87271.79894	13411	13400	13387	13371	13360	16138	16161
87451.71021	87588.22632	87780.0191	87352.62026	13418	13411	13400	13387	13371	16078	16138
87287.17909	87451.71021	87588.22632	87780.0191	13427	13418	13411	13400	13387	16101	16078
87513.13561	87287.17909	87451.71021	87588.22632	13409	13427	13418	13411	13400	16032	16101
87105.76635	87513.13561	87287.17909	87451.71021	13399	13409	13427	13418	13411	16029	16032
86923.48551	87105.76635	87513.13561	87287.17909	13407	13399	13409	13427	13418	16001	16029
86858.02616	86923.48551	87105.76635	87513.13561	13423	13407	13399	13409	13427	16034	16001
87525.01494	86858.02616	86923.48551	87105.76635	13427	13423	13407	13399	13409	15999	16034
87670.76512	87525.01494	86858.02616	86923.48551	13429	13427	13423	13407	13399	15644	15999
87127.46072	87670.76512	87525.01494	86858.02616	13430	13429	13427	13423	13407	16014	15644
88208.97288	87127.46072	87670.76512	87525.01494	13449	13430	13429	13427	13423	16074	16014
88644.23112	88208.97288	87127.46072	87670.76512	13470	13449	13430	13429	13427	16023	16074
88695.04282	88644.23112	88208.97288	87127.46072	13489	13470	13449	13430	13429	16071	16023
88755.45996	88695.04282	88644.23112	88208.97288	13487	13489	13470	13449	13430	16156	16071

HPMFL2	HPMFL3	HPMFL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM	EMPIND	LGCONCOM	LG1EMCOM	
				0	1	0	0	2	4116.395	1265.2	12.1212	
				0	0	1	0	3	4119.434	1273.601	12.1262	8.32426
12911				0	0	0	1	4	4269.125	1283.066	12.1342	8.32502
12637	12911			1	0	0	0	5	4215.991	1256.579	12.1439	8.36061
12368	12637	12911		0	1	0	0	6	4268.271	1255.658	12.151	8.34787
8131	12368	12637		0	0	1	0	7	4217.146	1241.822	12.154	8.36035
6741	8131	12368		0	0	0	1	8	4363.942	1259.562	12.1583	8.34816
9956	6741	8131		1	0	0	0	9	4324.634	1243.645	12.164	8.38229
9594	9956	6741		0	1	0	0	10	4366.732	1274.362	12.1696	8.37314
6372	9594	9956		0	0	1	0	11	4301.742	1279.971	12.1712	8.38304
9676	6372	9594		0	0	0	1	12	4392.519	1265.621	12.1713	8.36793
6970	9676	6372		1	0	0	0	13	4307.767	1215.047	12.1814	8.38877
4567	6970	9676		0	1	0	0	14	4324.594	1210.546	12.1864	8.3692
3126	4567	6970		0	0	1	0	15	4249.503	1195.799	12.1868	8.37323
5599	3126	4567		0	0	0	1	16	4348.378	1175.896	12.1891	8.35561
4870	5599	3126		1	0	0	0	17	4313.63	1169.397	12.1948	8.37855
4960	4870	5599		0	1	0	0	18	4366.634	1198.592	12.1989	8.37036
5871	4960	4870		0	0	1	0	19	4306.913	1213.371	12.2009	8.38275
10554	5871	4960		0	0	0	1	20	4454.421	1224.871	12.2021	8.36876
11502	10554	5871		1	0	0	0	21	4442.309	1219.225	12.2039	8.40252
10803	11502	10554		0	1	0	0	22	4522.879	1237.785	12.2043	8.39949
12823	10803	11502		0	0	1	0	23	4558.33	1245.948	12.2108	8.41748
16540	12823	10803		0	0	0	1	24	4713.778	1255.731	12.224	8.42512
16012	16540	12823		1	0	0	0	25	4703.749	1234.064	12.2362	8.45848
16276	16012	16540		0	1	0	0	26	4792.799	1255.026	12.2413	8.45619
15866	16276	16012		0	0	1	0	27	4797.379	1266.615	12.2485	8.47506
20673	15866	16276		0	0	0	1	28	4951.894	1275.421	12.2451	8.47587
27504	20673	15866		1	0	0	0	29	4909.33	1261.369	12.2448	8.50757
20652	27504	20673		0	1	0	0	30	4990.137	1274.474	12.2487	8.49889
22920	20652	27504		0	0	1	0	31	4988.864	1282.539	12.2484	8.51533
23063	22920	20652		0	0	0	1	32	5170.768	1292.788	12.246	8.51503
22014	23063	22920		1	0	0	0	33	5114.656	1273.431	12.2515	8.5508
28910	22014	23063		0	1	0	0	34	5227.473	1290.585	12.2555	8.53987
20009	28910	22014		0	0	1	0	35	5176.53	1299.747	12.2551	8.56175
19817	20009	28910		0	0	0	1	36	5371.563	1317.146	12.2516	8.55179
16537	19817	20009		1	0	0	0	37	5349.252	1313.871	12.2602	8.58873
15386	16537	19817		0	1	0	0	38	5450.652	1331.312	12.2638	8.58448
12829	15386	16537		0	0	1	0	39	5434.662	1329.428	12.2631	8.60332
14763	12829	15386		0	0	0	1	40	5615.113	1341.843	12.2608	8.60025
14899	14763	12829		1	0	0	0	41	5562.782	1322.423	12.2692	8.63293
14866	14899	14763		0	1	0	0	42	5631.339	1332.391	12.2741	8.6235
10885	14866	14899		0	0	1	0	43	5580.227	1323.38	12.2731	8.63588
13506	10885	14866		0	0	0	1	44	5782.407	1327.047	12.2692	8.62659
9709	13506	10885		1	0	0	0	45	5727.485	1298.185	12.2702	8.6623
12471	9709	13506		0	1	0	0	46	5772.517	1300.411	12.2687	8.653
10228	12471	9709		0	0	1	0	47	5718.49	1285.039	12.265	8.66095
12322	10228	12471		0	0	0	1	48	5800.827	1265.598	12.2614	8.65146
5694	12322	10228		1	0	0	0	49	5666.644	1219.353	12.268	8.66585
5442	5694	12322		0	1	0	0	50	5685.108	1213.388	12.2666	8.64257
3961	5442	5694		0	0	1	0	51	5628.58	1195.501	12.2645	8.64571
5888	3961	5442		0	0	0	1	52	5691.006	1181.698	12.2635	8.63574
4115	5888	3961		1	0	0	0	53	5523.657	1136.156	12.2683	8.64661
4129	4115	5888		0	1	0	0	54	5559.378	1130.691	12.2668	8.61693
2686	4129	4115		0	0	1	0	55	5504.859	1115.296	12.2604	8.62325
2838	2686	4129		0	0	0	1	56	5582.292	1089.183	12.2546	8.61328
2800	2838	2686		1	0	0	0	57	5480.331	1062.558	12.2642	8.62728
3618	2800	2838		0	1	0	0	58	5503.343	1054.641	12.2645	8.60886

2149	3618	2800	0	0	1	0	59	5477.813	1038.578	12.2629	8.61305
1788	2149	3618	0	0	0	1	60	5544.735	1026.917	12.2637	8.60857
1798	1788	2149	1	0	0	0	61	5493.064	1012.305	12.2734	8.6208
1225	1798	1788	0	1	0	0	62	5555.351	1025.108	12.2778	8.6113
1620	1225	1798	0	0	1	0	63	5547.6	1025.921	12.2786	8.62263
4567	1620	1225	0	0	0	1	64	5652.884	1024.666	12.2824	8.62128
2137	4567	1620	1	0	0	0	65	5605.532	1021.601	12.2907	8.64003
3279	2137	4567	0	1	0	0	66	5675.712	1029.754	12.2915	8.6315
1932	3279	2137	0	0	1	0	67	5650.704	1034.362	12.2913	8.64395
2336	1932	3279	0	0	0	1	68	5752.937	1031.296	12.2923	8.63953
1920	2336	1932	1	0	0	0	69	5682.241	1035.693	12.2952	8.65746
2226	1920	2336	0	1	0	0	70	5760.603	1051.564	12.295	8.64509
2251	2226	1920	0	0	1	0	71	5733.921	1055.412	12.2961	8.6588
2366	2251	2226	0	0	0	1	72	5851.557	1060.776	12.2988	8.65415
1590	2366	2251	1	0	0	0	73	5818.225	1059.209	12.3036	8.67447
2360	1590	2366	0	1	0	0	74	5924.755	1078.545	12.3053	8.66875
1761	2360	1590	0	0	1	0	75	5900.83	1089.77	12.3065	8.6869
3434	1761	2360	0	0	0	1	76	6030.964	1087.103	12.3069	8.68284
2724	3434	1761	1	0	0	0	77	5996.639	1092.394	12.3137	8.70467
2939	2724	3434	0	1	0	0	78	6101.594	1105.772	12.3154	8.69895
1664	2939	2724	0	0	1	0	79	6105.16	1101.573	12.3174	8.71631
3292	1664	2939	0	0	0	1	80	6248.901	1094.466	12.3195	8.7169
3084	3292	1664	1	0	0	0	81	6197.487	1078.18	12.3246	8.74016
3481	3084	3292	0	1	0	0	82	6311.068	1089.399	12.3274	8.7319
3316	3481	3084	0	0	1	0	83	6322.853	1086.38	12.3296	8.75007
2830	3316	3481	0	0	0	1	84	6476.206	1084.294	12.3325	8.75193
3933	2830	3316	1	0	0	0	85	6420.347	1081.92	12.3367	8.77589
5542	3933	2830	0	1	0	0	86	6532.125	1091.042	12.338	8.76784
5351	5542	3933	0	0	1	0	87	6510.205	1094.128	12.3384	8.78522
5391	5351	5542	0	0	0	1	88	6646.319	1082.147	12.341	8.78179
4252	5391	5351	1	0	0	0	89	6628.381	1069.986	12.3451	8.80234
3632	4252	5391	0	1	0	0	90	6686.351	1057.882	12.3472	8.79944
4587	3632	4252	0	0	1	0	91	6624.541	1036.059	12.3484	8.80814
4338	4587	3632	0	0	0	1	92	6727.294	1004.24	12.3508	8.79886
3436	4338	4587	1	0	0	0	93	6653.835	979.5314	12.3551	8.81426
6303	3436	4338	0	1	0	0	94	6747.694	982.8389	12.3574	8.80327
4197	6303	3436	0	0	1	0	95	6692.541	971.092	12.359	8.81727
4577	4197	6303	0	0	0	1	96	6825.718	957.6487	12.3613	8.80906
6277	4577	4197	1	0	0	0	97	6732.657	941.0097	12.3638	8.82874
7503	6277	4577	0	1	0	0	98	6801.336	935.9637	12.3649	8.81503
7084	7503	6277	0	0	1	0	99	6753.322	928.8116	12.3659	8.82518
7106	7084	7503	0	0	0	1	100	6888.657	920.9765	12.3677	8.8181
4863	7106	7084	1	0	0	0	101	6831.744	917.2895	12.3713	8.83793
7659	4863	7106	0	1	0	0	102	6930.925	925.2753	12.3722	8.82964
7824	7659	4863	0	0	1	0	103	6888.619	925.7141	12.3732	8.84408
8206	7824	7659	0	0	0	1	104	7042.854	915.3797	12.3749	8.83796
6971	8206	7824	1	0	0	0	105	6978.604	907.4295	12.3771	8.86007
11831	6971	8206	0	1	0	0	106	7090.004	911.0629	12.379	8.8509
6238	11831	6971	0	0	1	0	107	7068.267	913.1992	12.38	8.86671
7376	6238	11831	0	0	0	1	108	7234.034	906.4657	12.3811	8.86366
7725	7376	6238	1	0	0	0	109	7192.718	904.9489	12.3833	8.88685
6629	7725	7376	0	1	0	0	110	7286.355	909.4452	12.3858	8.88113
9261	6629	7725	0	0	1	0	111	7246.789	908.7774	12.3871	8.89404
7553	9261	6629	0	0	0	1	112	7373.029	898.1048	12.3884	8.88863
6550	7553	9261	1	0	0	0	113	7296.096	889.1038	12.3908	8.90589
7752	6550	7553	0	1	0	0	114	7351.445	888.6553	12.3916	8.89508
7713	7752	6550	0	0	1	0	115	7298.784	888.8163	12.3924	8.90262
5910	7713	7752	0	0	0	1	116	7408.939	872.2277	12.3946	8.89538
7664	5910	7713	1	0	0	0	117	7270.003	859.2303	12.397	8.91036
5846	7664	5910	0	1	0	0	118	7305.217	858.8827	12.3974	8.89139

4728	5846	7664	0	0	1	0	119	7168.83	854.87	12.3981	8.89618
5344	4728	5846	0	0	0	1	120	7188.948	829.4858	12.3994	8.87716
3411	5344	4728	1	0	0	0	121	6937.619	786.5477	12.4018	8.87974
4780	3411	5344	0	1	0	0	122	6872.934	763.5331	12.4028	8.84386
2192	4780	3411	0	0	1	0	123	6684.042	746.7578	12.4025	8.83431
1375	2192	4780	0	0	0	1	124	6790.723	733.6102	12.4032	8.80603
1785	1375	2192	1	0	0	0	125	6682.965	724.035	12.4041	8.82188
1556	1785	1375	0	1	0	0	126	6787.902	731.1314	12.4045	8.80566
2599	1556	1785	0	0	1	0	127	6673.683	736.4501	12.4047	8.82117
1865	2599	1556	0	0	0	1	128	6829.616	731.7177	12.4053	8.80293
3047	1865	2599	1	0	0	0	129	6754.854	722.9792	12.4067	8.82206
2400	3047	1865	0	1	0	0	130	6808.929	729.7376	12.4065	8.81217
2827	2400	3047	0	0	1	0	131	6751.29	736.1766	12.4064	8.81998
4269	2827	2400	0	0	0	1	132	6898.289	730.778	12.4071	8.81
3212	4269	2827	1	0	0	0	133	6847.371	728.3293		8.83216
3965	3212	4269	0	1	0	0	134	6951.069	737.1642		8.82284
5598	3965	3212	0	0	1	0	135	6905.253	742.2466		8.83412
6794	5598	3965	0	0	0	1	136	7071.706	735.3944		8.82382
7717	6794	5598	1	0	0	0	137	7015.528	729.2384		8.84383
8208	7717	6794	0	1	0	0	138	7072.25	731.6831		8.83537
8632	8208	7717	0	0	1	0	139	7019.569	738.064		8.8475
8931	8632	8208	0	0	0	1	140	7192.88	730.9863		8.83986
9175	8931	8632	1	0	0	0	141	7103.929	735.694		8.86039
9191	9175	8931	0	1	0	0	142	7177.7	745.2118		8.85318
9564	9191	9175	0	0	1	0	143	7143.338	755.8263		8.86692
9865	9564	9191	0	0	0	1	144	7311.328	748.8103		8.86029
10205	9865	9564	1	0	0	0	145	7235.667	751.6163		8.88179
10607	10205	9865	0	1	0	0	146	7329.924	755.1616		8.87484
11126	10607	10205	0	0	1	0	147	7309.812	760.6137		8.88861
11356	11126	10607	0	0	0	1	148	7481.669	755.391		8.88174
11650	11356	11126	1	0	0	0	149	7402.021	757.9178		8.90197
11807	11650	11356	0	1	0	0	150	7500.153	760.9352		8.89418
12009	11807	11650	0	0	1	0	151	7479.22	765.6485		8.90769
12197	12009	11807	0	0	0	1	152	7649.519	758.796		8.90047
12465	12197	12009	1	0	0	0	153	7563.63	760.5524		8.91936
12857	12465	12197	0	1	0	0	154	7652.836	763.6606		8.91002
13216	12857	12465	0	0	1	0	155	7617.423	767.8247		8.92204
13363	13216	12857	0	0	0	1	156	7774.228	760.8213		8.91347
13607	13363	13216	1	0	0	0	157	7673.45	762.4362		8.93101
13826	13607	13363	0	1	0	0	158	7751.426	766.319		8.921
14036	13826	13607	0	0	1	0	159	7704.958	771.1013		8.93234
14050	14036	13826	0	0	0	1	160	7851.76	764.9918		8.9233
13976	14050	14036	1	0	0	0	161	7744.505	765.5599		8.9402
13972	13976	14050	0	1	0	0	162	7820.241	767.8287		8.92971
13970	13972	13976	0	0	1	0	163	7770.654	771.0514		8.94079
13951	13970	13972	0	0	0	1	164	7915.292	763.4167		8.93175
13921	13951	13970	1	0	0	0	165	7805.725	763.9436		8.94877
13890	13921	13951	0	1	0	0	166	7895.369	765.7651		8.93868
13933	13890	13921	0	0	1	0	167	7828.527	768.5498		8.95229
13930	13933	13890	0	0	0	1	168	7964.391	760.3789		8.94215
13965	13930	13933	1	0	0	0	169	7849.501	760.2721		8.95826
13968	13965	13930	0	1	0	0	170	7919.054	761.7005		8.94772
13893	13968	13965	0	0	1	0	171	7861.652	764.7159		8.95877
13800	13893	13968	0	0	0	1	172	8007.145	756.5282		8.94977
13697	13800	13893	1	0	0	0	173	7896.256	756.1053		8.96636
13528	13697	13800	0	1	0	0	174	7968.204	756.9676		8.95577
13440	13528	13697	0	0	1	0	175	7910.241	759.8421		8.96661
13421	13440	13528	0	0	0	1	176	8057.939	751.9387		8.95732
13554	13421	13440	1	0	0	0	177	7947.171	751.9022		8.9741
13570	13554	13421	0	1	0	0	178	8018.784	753.0389		8.96376

13570	13570	13554	0	0	1	0	179	7962.102	756.1588	8.97499
13481	13570	13570	0	0	0	1	180	8112.632	748.359	8.96646
13556	13481	13570	1	0	0	0	181	8002.918	748.628	8.98387
13474	13556	13481	0	1	0	0	182	8076.204	749.8563	8.97367
13612	13474	13556	0	0	1	0	183	8018.839	752.984	8.98496
13629	13612	13474	0	0	0	1	184	8171.955	745.2056	8.97651
13704	13629	13612	1	0	0	0	185	8062.025	744.6153	8.9939
13638	13704	13629	0	1	0	0	186	8138.152	744.9457	8.98378
13860	13638	13704	0	0	1	0	187	8082.292	747.1057	8.99524
13910	13860	13638	0	0	0	1	188	8238.023	738.7083	8.98705
14040	13910	13860	1	0	0	0	189	8127.529	738.1219	9.00445
14168	14040	13910	0	1	0	0	190	8204.715	738.491	8.99442
14423	14168	14040	0	0	1	0	191	8149.47	740.6929	9.00623
14493	14423	14168	0	0	0	1	192	8307.158	732.4699	8.99824
14589	14493	14423	1	0	0	0	193	8197.841	731.6021	9.01576
14593	14589	14493	0	1	0	0	194	8276.694	731.5925	9.00587
14796	14593	14589	0	0	1	0	195	8221.153	733.5796	9.01751
14875	14796	14593	0	0	0	1	196	8379.779	725.3278	9.00944
14940	14875	14796	1	0	0	0	197	8268.455	724.7799	9.02667
14918	14940	14875	0	1	0	0	198	8348.67	724.7089	9.01634
15096	14918	14940	0	0	1	0	199	8292.403	726.5498	9.02786
15173	15096	14918	0	0	0	1	200	8452.074	718.1455	9.01965
15276	15173	15096	1	0	0	0	201	8339.751	717.6323	9.03677
15290	15276	15173	0	1	0	0	202	8419.854	717.7631	9.02641
15479	15290	15276	0	0	1	0	203	8362.054	719.8674	9.03788
15545	15479	15290	0	0	0	1	204	8524.192	711.9177	9.02981
15539	15545	15479	1	0	0	0	205	8412.13	711.5365	9.04673
15570	15539	15545	0	1	0	0	206	8506.634	711.3193	9.03627
15783	15570	15539	0	0	1	0	207	8440.39	713.8788	9.04888
15818	15783	15570	0	0	0	1	208	8594.891	706.1999	9.03942
15740	15818	15783	1	0	0	0	209	8477.334	705.9979	9.05529
15772	15740	15818	0	1	0	0	210	8556.108	706.5426	9.04458
16032	15772	15740	0	0	1	0	211	8497.683	708.9423	9.05573
15843	16032	15772	0	0	0	1	212	8657.236	701.1873	9.04727
15846	15843	16032	1	0	0	0	213	8538.342	701.127	9.06356
15882	15846	15843	0	1	0	0	214	8616.487	701.3702	9.05248
16021	15882	15846	0	0	1	0	215	8557.446	703.7246	9.06321
15809	16021	15882	0	0	0	1	216	8718.238	696.0317	9.05467
15780	15809	16021	1	0	0	0	217	8598.441	696.0771	9.07086
15840	15780	15809	0	1	0	0	218	8677.552	696.4808	9.05975
16042	15840	15780	0	0	1	0	219	8619.537	699.093	9.07048
15886	16042	15840	0	0	0	1	220	8782.076	691.8	9.06204
15833	15886	16042	1	0	0	0	221	8662.414	692.2332	9.07808
15889	15833	15886	0	1	0	0	222	8742.735	692.9453	9.06691
16075	15889	15833	0	0	1	0	223	8684.847	695.7119	9.07761
15888	16075	15889	0	0	0	1	224	8848.12	688.4433	9.0694
16037	15888	16075	1	0	0	0	225	8727.056	688.8982	9.08565
16097	16037	15888	0	1	0	0	226	8808.297	689.6377	9.07449
16276	16097	16037	0	0	1	0	227	8750.225	692.5643	9.08521
16079	16276	16097	0	0	0	1	228	8915.24	685.4281	9.07693
16169	16079	16276	1	0	0	0	229	8793.837	685.9171	9.09312
16162	16169	16079	0	1	0	0	230	8877.152	686.6772	9.08186
16301	16162	16169	0	0	1	0	231	8820.949	689.5326	9.09274
16074	16301	16162	0	0	0	1	232	8987.948	682.387	9.08455
16181	16074	16301	1	0	0	0	233	8865.256	682.9128	9.10074
16206	16181	16074	0	1	0	0	234	8949.483	683.5877	9.08946
16318	16206	16181	0	0	1	0	235	8893.633	686.3774	9.1002
16265	16318	16206	0	0	0	1	236	9061.737	679.2796	9.09195
16281	16265	16318	1	0	0	0	237	8936.608	679.9529	9.10814
16210	16281	16265	0	1	0	0	238	9021.226	680.7448	9.09678

16241	16210	16281	0	0	1	0	239	8965.344	683.6696 .	9.10764
16161	16241	16210	0	0	0	1	240	9133.9	676.6275 .	9.09933
16138	16161	16241	1	0	0	0	241	9008.357	677.3112 .	9.11549
16078	16138	16161	0	1	0	0	242	9093.664	678.0283 .	9.1042
16101	16078	16138	0	0	1	0	243	9035.456	680.8639 .	9.11514
16032	16101	16078	0	0	0	1	244	9206.953	673.6985 .	9.10698
16029	16032	16101	1	0	0	0	245	9080.573	674.367 .	9.12326
16001	16029	16032	0	1	0	0	246	9180.537	674.6295 .	9.11197
16034	16001	16029	0	0	1	0	247	9116.019	677.6744 .	9.12437
15999	16034	16001	0	0	0	1	248	9283.651	670.6845 .	9.11494
15644	15999	16034	1	0	0	0	249	9155.071	671.5615 .	9.13041
16014	15644	15999	0	1	0	0	250	9241.642	672.3043 .	9.11893
16074	16014	15644	0	0	1	0	251	9185.235	675.297 .	9.13006
16023	16074	16014	0	0	0	1	252	9359.057	668.347 .	9.12208

LNCONIND		LN0EMIND	LN1EMIND						
10.2811		7.10808							
10.275	-0.0061	7.11208	7.10808		28,998				0.056%
10.2862	0.0112	7.11526	7.11208	0.004	29,325	327	1.128%		0.045%
10.3073	0.0211	7.09531	7.11526	0.00318	29,949	624	2.128%		-0.280%
10.3096	0.0023	7.09049	7.09531	-0.01995	30,018	69	0.230%		-0.068%
10.2971	-0.0125	7.07623	7.09049	-0.00482	29,646	(372)	-1.239%		-0.201%
10.3072	0.0101	7.08791	7.07623	-0.01426	29,948	302	1.019%		0.165%
10.3256	0.0184	7.07876	7.08791	0.01168	30,504	556	1.857%		-0.129%
10.3174	-0.0082	7.10036	7.07876	-0.00915	30,256	(248)	-0.813%		0.305%
10.3057	-0.0117	7.10242	7.10036	0.0216	29,903	(353)	-1.167%		0.029%
10.3101	0.0044	7.08958	7.10242	0.00206	30,035	132	0.441%		-0.181%
10.3244	0.0143	7.05393	7.08958	-0.01284	30,468	433	1.442%		-0.503%
10.319	-0.0054	7.04943	7.05393	-0.03565	30,304	(164)	-0.538%		-0.064%
10.3007	-0.0183	7.03931	7.04943	-0.0045	29,752	(552)	-1.822%		-0.144%
10.3045	0.0038	7.02108	7.03931	-0.01012	29,867	115	0.387%		-0.259%
10.3119	0.0074	7.01616	7.02108	-0.01823	30,090	223	0.747%		-0.070%
10.2959	-0.016	7.03852	7.01616	-0.00492	29,610	(480)	-1.595%		0.319%
10.2769	-0.019	7.04804	7.03852	0.02236	29,054	(556)	-1.878%		0.135%
10.2819	0.005	7.05324	7.04804	0.00952	29,199	145	0.499%		0.074%
10.2962	0.0143	7.05307	7.05324	0.0052	29,619	420	1.438%		-0.002%
10.2873	-0.0089	7.06484	7.05307	-0.00017	29,357	(262)	-0.885%		0.167%
10.268	-0.0193	7.07268	7.06484	0.01177	28,796	(561)	-1.911%		0.111%
10.2764	0.0084	7.07809	7.07268	0.00784	29,038	242	0.840%		0.076%
10.2982	0.0218	7.06193	7.07809	0.00541	29,678	640	2.204%		-0.228%
10.2825	-0.0157	7.07775	7.06193	-0.01616	29,218	(460)	-1.550%		0.224%
10.2593	-0.0232	7.08707	7.07775	0.01582	28,547	(671)	-2.297%		0.132%
10.269	0.0097	7.09232	7.08707	0.00932	28,825	278	0.974%		0.074%
10.2866	0.0176	7.08506	7.09232	0.00525	29,337	512	1.776%		-0.102%
10.2632	-0.0234	7.09854	7.08506	-0.00726	28,658	(679)	-2.314%		0.190%
10.2372	-0.026	7.10726	7.09854	0.01348	27,923	(735)	-2.565%		0.123%
10.234	-0.0032	7.11142	7.10726	0.00872	27,834	(89)	-0.319%		0.098%
10.2527	0.0187	7.10242	7.11142	0.00694	28,359	525	1.886%		-0.166%
10.2351	-0.0176	7.11347	7.10242	-0.01178	27,864	(495)	-1.745%		0.156%
10.2091	-0.026	7.11972	7.11347	0.01105	27,149	(715)	-2.566%		0.088%
10.205	-0.0041	7.1325	7.11972	0.00625	27,039	(110)	-0.405%		0.180%
10.2409	0.0359	7.13178	7.1325	0.01278	28,026	987	3.650%		-0.010%
10.2211	-0.0198	7.14204	7.13178	-0.00072	27,478	(548)	-1.955%		0.144%
10.1981	-0.023	7.14006	7.14204	0.01026	26,853	(625)	-2.275%		-0.028%
10.1978	-0.0003	7.14842	7.14006	-0.00198	26,845	(8)	-0.030%		0.117%
10.2347	0.0369	7.13855	7.14842	0.00836	27,854	1,009	3.759%		-0.138%
10.2206	-0.0141	7.14606	7.13855	-0.00987	27,462	(392)	-1.407%		0.105%
10.2068	-0.0138	7.13823	7.14606	0.00751	27,087	(375)	-1.366%		-0.110%
10.2239	0.0171	7.13918	7.13823	-0.00783	27,555	468	1.728%		0.013%
10.2613	0.0374	7.11947	7.13918	0.00095	28,605	1,050	3.811%		-0.276%
10.2731	0.0118	7.12166	7.11947	-0.01971	28,943	338	1.182%		0.031%
10.2752	0.0021	7.11029	7.12166	0.00219	29,004	61	0.211%		-0.160%
10.2775	0.0023	7.09598	7.11029	-0.01137	29,070	66	0.228%		-0.201%
10.2874	0.0099	7.06193	7.09598	-0.01431	29,359	289	0.994%		-0.480%
10.2862	-0.0012	7.05738	7.06193	-0.03405	29,325	(34)	-0.116%		-0.064%
10.278	-0.0082	7.04586	7.05738	-0.00455	29,086	(239)	-0.815%		-0.163%
10.2694	-0.0086	7.03351	7.04586	-0.01152	28,838	(248)	-0.853%		-0.175%
10.2617	-0.0077	7.00097	7.03351	-0.01235	28,614	(224)	-0.777%		-0.463%
10.2584	-0.0033	6.99696	7.00097	-0.03254	28,520	(94)	-0.329%		-0.057%
10.2503	-0.0081	6.9861	6.99696	-0.00401	28,292	(228)	-0.799%		-0.155%
10.2382	-0.0121	6.96404	6.9861	-0.01086	27,952	(340)	-1.202%		-0.316%
10.2394	0.0012	6.93945	6.96404	-0.02206	27,984	32	0.114%		-0.353%
10.2328	-0.0066	6.93391	6.93945	-0.02459	27,801	(183)	-0.654%		-0.080%

10.2333	0.0005	6.9255	6.93391	-0.00554	27,815	14	0.050%	-0.121%
10.2345	0.0012	6.91513	6.9255	-0.00841	27,847	32	0.115%	-0.150%
10.2366	0.0021	6.89791	6.91513	-0.01037	27,906	59	0.212%	-0.249%
10.2406	0.004	6.91085	6.89791	-0.01722	28,018	112	0.401%	0.188%
10.2436	0.003	6.91523	6.91085	0.01294	28,102	84	0.300%	0.063%
10.2447	0.0011	6.91642	6.91523	0.00438	28,133	31	0.110%	0.017%
10.2485	0.0038	6.90935	6.91642	0.00119	28,240	107	0.380%	-0.102%
10.2523	0.0038	6.91771	6.90935	-0.00707	28,348	108	0.382%	0.121%
10.25	-0.0023	6.92176	6.91771	0.00836	28,282	(66)	-0.233%	0.059%
10.2473	-0.0027	6.91899	6.92176	0.00405	28,205	(77)	-0.272%	-0.040%
10.2449	-0.0024	6.92353	6.91899	-0.00277	28,140	(65)	-0.230%	0.066%
10.2463	0.0014	6.93945	6.92353	0.00454	28,179	39	0.139%	0.230%
10.2491	0.0028	6.94322	6.93945	0.01592	28,258	79	0.280%	0.054%
10.2501	0.001	6.94851	6.94322	0.00377	28,284	26	0.092%	0.076%
10.2544	0.0043	6.94707	6.94851	0.00529	28,407	123	0.435%	-0.021%
10.2561	0.0017	6.96555	6.94707	-0.00144	28,455	48	0.169%	0.266%
10.2583	0.0022	6.97597	6.96555	0.01848	28,517	62	0.218%	0.150%
10.2517	-0.0066	6.97401	6.97597	0.01042	28,331	(186)	-0.652%	-0.028%
10.2696	0.0179	6.97924	6.97401	-0.00196	28,842	511	1.804%	0.075%
10.2729	0.0033	6.99228	6.97924	0.00523	28,939	97	0.336%	0.187%
10.274	0.0011	6.9886	6.99228	0.01304	28,970	31	0.107%	-0.053%
10.2749	0.0009	6.98277	6.9886	-0.00368	28,997	27	0.093%	-0.083%
10.2729	-0.002	6.96829	6.98277	-0.00583	28,939	(58)	-0.200%	-0.207%
10.2692	-0.0037	6.97887	6.96829	-0.01448	28,832	(107)	-0.370%	0.152%
10.2693	1E-04	6.97597	6.97887	0.01058	28,833	1	0.003%	-0.042%
10.2675	-0.0018	6.97439	6.97597	-0.0029	28,783	(50)	-0.173%	-0.023%
10.2662	-0.0013	6.96829	6.97439	-0.00158	28,745	(38)	-0.132%	-0.087%
10.2655	-0.0007	6.97625	6.96829	-0.0061	28,725	(20)	-0.070%	0.114%
10.2649	-0.0006	6.97859	6.97625	0.00796	28,706	(19)	-0.066%	0.034%
10.2655	0.0006	6.96782	6.97859	0.00234	28,725	19	0.066%	-0.154%
10.2658	0.0003	6.95759	6.96782	-0.01077	28,732	7	0.024%	-0.147%
10.2631	-0.0027	6.94592	6.95759	-0.01023	28,656	(76)	-0.265%	-0.168%
10.262	-0.0011	6.92451	6.94592	-0.01167	28,623	(33)	-0.115%	-0.308%
10.2612	-0.0008	6.89305	6.92451	-0.02141	28,602	(21)	-0.073%	-0.454%
10.257	-0.0042	6.8686	6.89305	-0.03146	28,481	(121)	-0.423%	-0.355%
10.2521	-0.0049	6.87244	6.8686	-0.02445	28,343	(138)	-0.485%	0.056%
10.2494	-0.0027	6.86003	6.87244	0.00384	28,266	(77)	-0.272%	-0.181%
10.2471	-0.0023	6.84588	6.86003	-0.01241	28,201	(65)	-0.230%	-0.206%
10.2463	-0.0008	6.82806	6.84588	-0.01415	28,179	(22)	-0.078%	-0.260%
10.2456	-0.0007	6.82263	6.82806	-0.01782	28,157	(22)	-0.078%	-0.080%
10.2469	0.0013	6.81465	6.82263	-0.00543	28,195	38	0.135%	-0.117%
10.2488	0.0019	6.80594	6.81465	-0.00798	28,250	55	0.195%	-0.128%
10.2521	0.0033	6.80184	6.80594	-0.00871	28,341	91	0.322%	-0.060%
10.2492	-0.0029	6.81036	6.80184	-0.0041	28,260	(81)	-0.286%	0.125%
10.2501	0.0009	6.81091	6.81036	0.00852	28,286	26	0.092%	0.008%
10.2523	0.0022	6.79917	6.81091	0.00055	28,349	63	0.223%	-0.172%
10.2564	0.0041	6.79021	6.79917	-0.01174	28,463	114	0.402%	-0.132%
10.2473	-0.0091	6.79425	6.79021	-0.00896	28,205	(258)	-0.906%	0.059%
10.2473	0	6.79593	6.79425	0.00404	28,207	2	0.007%	0.025%
10.2482	0.0009	6.78807	6.79593	0.00168	28,232	25	0.089%	-0.116%
10.2535	0.0053	6.78581	6.78807	-0.00786	28,381	149	0.528%	-0.033%
10.2465	-0.007	6.79032	6.78581	-0.00226	28,185	(196)	-0.691%	0.066%
10.244	-0.0025	6.78886	6.79032	0.00451	28,113	(72)	-0.255%	-0.022%
10.2453	0.0013	6.77662	6.78886	-0.00146	28,149	36	0.128%	-0.180%
10.2496	0.0043	6.76884	6.77662	-0.01224	28,270	121	0.430%	-0.115%
10.2529	0.0033	6.76838	6.76884	-0.00778	28,366	96	0.340%	-0.007%
10.2521	-0.0008	6.76803	6.76838	-0.00046	28,341	(25)	-0.088%	-0.005%
10.2521	0	6.74876	6.76803	-0.00035	28,342	1	0.004%	-0.285%
10.2557	0.0036	6.73328	6.74876	-0.01927	28,444	102	0.360%	-0.229%
10.2576	0.0019	6.73281	6.73328	-0.01548	28,497	53	0.186%	-0.007%

10.2583	0.0007	6.72707	6.73281	-0.00047	28,518	21	0.074%	-0.085%	
10.2593	0.001	6.69568	6.72707	-0.00574	28,547	29	0.102%	-0.467%	
10.2606	0.0013	6.64262	6.69568	-0.03139	28,583	36	0.126%	-0.792%	
10.261	0.0004	6.61312	6.64262	-0.05306	28,595	12	0.042%	-0.444%	
10.2609	-0.0001	6.59154	6.61312	-0.0295	28,593	(2)	-0.007%	-0.326%	
10.2606	-0.0003	6.5734	6.59154	-0.02158	28,584	(9)	-0.031%	-0.275%	
10.2617	0.0011	6.56018	6.5734	-0.01814	28,615	31	0.108%	-0.201%	
10.2633	0.0016	6.57088	6.56018	-0.01322	28,662	47	0.164%	0.163%	
10.2628	-0.0005	6.57703	6.57088	0.0107	28,647	(15)	-0.052%	0.094%	
10.2625	-0.0003	6.5692	6.57703	0.00615	28,639	(8)	-0.028%	-0.119%	
10.2625	0	6.56357	6.5692	-0.00783	28,639	0	0.000%	-0.086%	-0.360%
10.2616	-0.0009	6.5699	6.56357	-0.00563	28,613	(26)	-0.091%	0.096%	-0.062%
10.2619	0.0003	6.57633	6.5699	0.00633	28,622	9	0.031%	0.098%	-0.045%
10.2613	-0.0006	6.56752	6.57633	0.00643	28,603	(19)	-0.066%	-0.134%	-0.176%
.		6.56498	6.56752						
.		6.57298	6.56498						
.		6.58258	6.57298						
.		6.58948	6.58258						
.		6.58465	6.58948						
.		6.59373	6.58465						
.		6.60245	6.59373						
.		6.60584	6.60245						
.		6.59728	6.60584						
.		6.60313	6.59728						
.		6.61352	6.60313						
.		6.61754	6.61352						
.		6.61056	6.61754						
.		6.6158	6.61056						
.		6.6242	6.6158						
.		6.62632	6.6242						
.		6.61754	6.62632						
.		6.62021	6.61754						
.		6.62844	6.62021						
.		6.62976	6.62844						
.		6.62087	6.62976						
.		6.62207	6.62087						
.		6.62817	6.62207						
.		6.62831	6.62817						
.		6.61794	6.62831						
.		6.61981	6.61794						
.		6.62659	6.61981						
.		6.62804	6.62659						
.		6.61754	6.62804						
.		6.61834	6.61754						
.		6.62367	6.61834						
.		6.62367	6.62367						
.		6.61338	6.62367						
.		6.61419	6.61338						
.		6.61994	6.61419						
.		6.62021	6.61994						
.		6.61097	6.62021						
.		6.61231	6.61097						
.		6.61914	6.61231						
.		6.62087	6.61914						
.		6.6111	6.62087						
.		6.61123	6.6111						
.		6.6166	6.61123						
.		6.61673	6.6166						
.		6.60611	6.61673						
.		6.60489	6.60611						

6.60948	6.60489
6.60868	6.60948
6.59837	6.60868
6.59755	6.59837
6.60191	6.59755
6.60055	6.60191
6.58934	6.60055
6.5881	6.58934
6.59181	6.5881
6.58961	6.59181
6.578	6.58961
6.57591	6.578
6.57967	6.57591
6.57758	6.57967
6.56597	6.57758
6.564	6.56597
6.5678	6.564
6.56569	6.5678
6.55393	6.56569
6.55194	6.55393
6.55564	6.55194
6.55336	6.55564
6.54161	6.55336
6.53973	6.54161
6.54377	6.53973
6.54204	6.54377
6.53044	6.54204
6.5281	6.53044
6.53306	6.5281
6.5319	6.53306
6.52092	6.5319
6.52003	6.52092
6.52547	6.52003
6.52459	6.52547
6.51397	6.52459
6.51323	6.51397
6.5187	6.51323
6.51767	6.5187
6.50668	6.51767
6.50593	6.50668
6.5113	6.50593
6.51041	6.5113
6.49964	6.51041
6.49888	6.49964
6.50429	6.49888
6.50354	6.50429
6.49285	6.50354
6.49209	6.49285
6.49783	6.49209
6.49708	6.49783
6.48647	6.49708
6.48601	6.48647
6.49179	6.48601
6.49133	6.49179
6.48142	6.49133
6.48127	6.48142
6.48692	6.48127
6.48647	6.48692
6.47666	6.48647
6.47636	6.47666

.	6.48219	6.47636
.	6.48188	6.48219
.	6.47188	6.48188
.	6.47157	6.47188
.	6.47743	6.47157
.	6.47713	6.47743
.	6.46723	6.47713
.	6.46677	6.46723
.	6.47312	6.46677
.	6.47327	6.47312
.	6.46381	6.47327
.	6.46397	6.46381
.	6.47033	6.46397
.	6.47049	6.47033

A. 22-05-015/016. TURN-SEU-025_Supplemental_ATTCH_Q2_SCG-2016-WP; SCG-30_Rose-Marie_Payan_WP_REVISED_TY 2016 GRC
SoCalGas Meter Data

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
1	197902	1979	2	21858	183720	29175	1044831		3542050	2475361
2	197903	1979	3	22243	184640	28998	1056084	11253	3566581	2488253
3	197904	1979	4	22568	186131	29325	1067481	11397	3590558	2500509
4	198001	1980	1	23415	187947	29949	1076885	9404	3609899	2509598
5	198002	1980	2	24230	189288	30018	1085343	8458	3627683	2518110
6	198003	1980	3	24697	189860	29646	1094447	9104	3645414	2526270
7	198004	1980	4	25086	190673	29948	1104182	9735	3663657	2534389
8	198101	1981	1	31743	191756	30504	1113039	8857	3685041	2540259
9	198102	1981	2	31462	192842	30256	1120924	7885	3694032	2541646
10	198103	1981	3	30131	193137	29903	1128137	7213	3703942	2545674
11	198104	1981	4	30761	193171	30035	1135861	7724	3718300	2551678
12	198201	1982	1	31782	195127	30468	1143617	7756	3731531	2556132
13	198202	1982	2	32554	196109	30304	1150513	6896	3742658	2559591
14	198203	1982	3	33081	196181	29752	1157101	6588	3752250	2562068
15	198204	1982	4	33618	196634	29867	1164070	6969	3763314	2565626
16	198301	1983	1	34436	197766	30090	1171468	7398	3774855	2568951
17	198302	1983	2	35047	198576	29610	1178057	6589	3784431	2571326
18	198303	1983	3	35534	198967	29054	1185677	7620	3797322	2576111
19	198304	1983	4	35945	199210	29199	1193933	8256	3811473	2581594
20	198401	1984	1	36487	199562	29619	1202899	8966	3827374	2587988
21	198402	1984	2	36857	199640	29357	1210847	7948	3841796	2594092
22	198403	1984	3	37078	200945	28796	1219044	8197	3855409	2599287
23	198404	1984	4	37507	203617	29038	1229031	9987	3872161	2605623
24	198501	1985	1	38077	206126	29678	1240563	11532	3891179	2612539
25	198502	1985	2	38691	207173	29218	1252269	11706	3909929	2618969
26	198503	1985	3	39205	208667	28547	1264693	12424	3931109	2627211
27	198504	1985	4	39577	207966	28825	1274087	9394	3948303	2634639
28	198601	1986	1	40046	207892	29337	1291752	17665	3977948	2646149
29	198602	1986	2	40343	208707	28658	1304602	12850	3998769	2653824
30	198603	1986	3	40614	208638	27923	1321020	16418	4025542	2663907
31	198604	1986	4	40841	208138	27834	1338645	17625	4054471	2674985
32	198701	1987	1	41155	209297	28359	1357743	19098	4086916	2688018
33	198702	1987	2	41515	210135	27864	1375695	17952	4115974	2698764
34	198703	1987	3	41784	210053	27149	1393988	18293	4146352	2710580
35	198704	1987	4	42070	209320	27039	1412851	18863	4178526	2723605
36	198801	1988	1	42480	211115	28026	1431008	18157	4209742	2736255

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
37	198802	1988	2	42932	211878	27478	1446245	15237	4236806	2747629
38	198803	1988	3	43329	211737	26853	1461772	15527	4265413	2760311
39	198804	1988	4	43580	211251	26845	1477080	15308	4295463	2774803
40	198901	1989	1	43759	213036	27854	1491608	14528	4325396	2790029
41	198902	1989	2	43875	214071	27462	1503773	12165	4351224	2803576
42	198903	1989	3	44022	213857	27087	1516455	12682	4378240	2817763
43	198904	1989	4	44117	213043	27555	1527687	11232	4404043	2832238
44	199001	1990	1	44180	213256	28605	1538257	10570	4429540	2847103
45	199002	1990	2	44251	212932	28943	1548197	9940	4451879	2859431
46	199003	1990	3	44282	212146	29004	1558661	10464	4474196	2871253
47	199004	1990	4	44349	211367	29070	1569031	10370	4495575	2882195
48	199101	1991	1	44430	212776	29359	1578685	9654	4515838	2892723
49	199102	1991	2	44541	212479	29325	1585226	6541	4529316	2899549
50	199103	1991	3	44702	212028	29086	1592815	7589	4547067	2909550
51	199104	1991	4	44899	211826	28838	1599356	6541	4561999	2917745
52	199201	1992	1	45110	212836	28614	1605648	6292	4578511	2927753
53	199202	1992	2	45208	212521	28520	1609530	3882	4588493	2933755
54	199203	1992	3	45321	211168	28292	1614333	4803	4600253	2940598
55	199204	1992	4	45436	209945	27952	1617793	3460	4610344	2947115
56	199301	1993	1	45599	211971	27984	1622983	5190	4623722	2955141
57	199302	1993	2	45783	212034	27801	1625981	2998	4633091	2961327
58	199303	1993	3	45974	211703	27815	1628994	3013	4642760	2967791
59	199304	1993	4	46034	211866	27847	1631384	2390	4653009	2975591
60	199401	1994	1	46039	213927	27906	1633936	2552	4663896	2983921
61	199402	1994	2	46120	214869	28018	1635446	1510	4672323	2990756
62	199403	1994	3	46156	215040	28102	1636299	853	4680520	2998066
63	199404	1994	4	46171	215855	28133	1638623	2324	4688980	3004186
64	199501	1995	1	46200	217670	28240	1639364	741	4699545	3013981
65	199502	1995	2	46267	217826	28348	1641896	2532	4709878	3021715
66	199503	1995	3	46394	217793	28282	1644230	2334	4719551	3028927
67	199504	1995	4	46467	218014	28205	1646880	2650	4729862	3036514
68	199601	1996	1	46470	218640	28140	1650665	3785	4745530	3048395
69	199602	1996	2	46426	218594	28179	1653824	3159	4761408	3061158
70	199603	1996	3	46403	218830	28258	1653652	-172	4763704	3063648
71	199604	1996	4	46369	219440	28284	1655288	1636	4774126	3072469
72	199701	1997	1	46302	220479	28407	1657156	1868	4784404	3080946
73	199702	1997	2	46265	220864	28455	1658583	1427	4793847	3088999
74	199703	1997	3	46232	221120	28517	1659839	1256	4803629	3097558

OBS	DTE	YEAR	QUARTER	CONNMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
75	199704	1997	4	46144	221208	28331	1661381	1542	4814809	3107284
76	199801	1998	1	46138	222737	28842	1663079	1698	4826113	3116896
77	199802	1998	2	46063	223102	28939	1664297	1218	4836096	3125735
78	199803	1998	3	46070	223543	28970	1665237	940	4846087	3134780
79	199804	1998	4	45986	224016	28997	1666266	1029	4857260	3145007
80	199901	1999	1	45941	225169	28939	1667744	1478	4869520	3155835
81	199902	1999	2	45895	225792	28832	1668939	1195	4881087	3166253
82	199903	1999	3	45909	226291	28833	1669901	962	4892684	3176875
83	199904	1999	4	45877	226952	28783	1671157	1256	4905479	3188446
84	200001	2000	1	45763	227898	28745	1672110	953	4917648	3199775
85	200002	2000	2	45608	228203	28725	1673490	1380	4929245	3210148
86	200003	2000	3	45569	228299	28706	1674705	1215	4940921	3220647
87	200004	2000	4	45486	228881	28725	1675802	1097	4955205	3233917
88	200101	2001	1	45353	229826	28732	1676450	648	4968449	3246646
89	200102	2001	2	45228	230307	28656	1677728	1278	4981854	3258898
90	200103	2001	3	45186	230583	28623	1679462	1734	4996289	3271641
91	200104	2001	4	45125	231156	28602	1680863	1401	5011483	3285495
92	200201	2002	1	45045	232152	28481	1682493	1630	5027317	3299778
93	200202	2002	2	44947	232680	28343	1684068	1575	5041293	3312278
94	200203	2002	3	44850	233049	28266	1685287	1219	5054914	3324776
95	200204	2002	4	44754	233576	28201	1686762	1475	5070605	3339089
96	200301	2003	1	44691	234176	28179	1688173	1411	5087363	3354499
97	200302	2003	2	44560	234430	28157	1691800	3627	5102799	3366439
98	200303	2003	3	44451	234653	28195	1698946	7146	5120930	3377532
99	200304	2003	4	44395	235080	28250	1702718	3772	5139572	3392458
100	200401	2004	1	44299	235942	28341	1706683	3965	5158231	3407249
101	200402	2004	2	44202	236150	28260	1709744	3061	5175548	3421602
102	200403	2004	3	44096	236379	28286	1711623	1879	5192624	3436905
103	200404	2004	4	44043	236775	28349	1714166	2543	5211715	3453507
104	200501	2005	1	43949	237307	28463	1716613	2447	5229466	3468904
105	200502	2005	2	43855	237764	28205	1718240	1627	5245507	3483412
106	200503	2005	3	43786	238002	28207	1721898	3658	5267964	3502280
107	200504	2005	4	43619	238249	28232	1724006	2108	5284726	3517101
108	200601	2006	1	43497	238774	28381	1728103	4097	5305737	3534137
109	200602	2006	2	43395	239380	28185	1732341	4238	5325124	3549389
110	200603	2006	3	43272	239694	28113	1736811	4470	5342860	3562776
111	200604	2006	4	43182	240001	28149	1741663	4852	5361024	3576179
112	200701	2007	1	43140	240569	28270	1748077	6414	5379414	3588197

113	200702	2007	2	43071	240764	28366	1753258	5181	5392644	3596315
OBS	DTE	YEAR	QUARTER	CONMMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
114	200703	2007	3	43018	240970	28341	1758177	4919	5405490	3604296
115	200704	2007	4	42931	241485	28342	1763497	5320	5418824	3612396
116	200801	2008	1	42845	242084	28444	1768672	5175	5430253	3618736
117	200802	2008	2	42736	242168	28497	1773994	5322	5440026	3623296
118	200803	2008	3	42645	242338	28518	1779737	5743	5450581	3628198
119	200804	2008	4	42572	242664	28547	1784639	4902	5459921	3632752
120	200901	2009	1	42482	243245	28583	1787967	3328	5466701	3636252
121	200902	2009	2	42438	243471	28595	1792067	4100	5473407	3638903
122	200903	2009	3	42396	243402	28593	1795984	3917	5480582	3642202
123	200904	2009	4	42340	243589	28584	1798805	2821	5486808	3645663
124	201001	2010	1	42287	243806	28615	1802483	3678	5493637	3648867
125	201002	2010	2	42226	243905	28662	1805613	3130	5499719	3651880
126	201003	2010	3	42150	243942	28647	1808846	3233	5505856	3654860
127	201004	2010	4	42081	244093	28639	1811071	2225	5510824	3657672
128	201101	2011	1	42016	244440	28639	1812395	1324	5514278	3659867
129	201102	2011	2	41970	244381	28613	1813744	1349	5517458	3661744
130	201103	2011	3	41924	244362	28622	1815364	1620	5521303	3664015
131	201104	2011	4	41870	244521	28603	1817304	1940	5525545	3666372
132	201201	2012	1	41805.66667	244844	28633	1819593.333	2289	5529770	3668371
133	201202	2012	2	41756.33333	244818	28587	1821788.667	2195	5533768	3670223
134	201203	2012	3	41698	244896	28533	1823985.333	2197	5538189	3672506
135	201204	2012	4	41656.66667	245148	28473	1825912.667	1927	5542899	3675330
136	201301	2013	1	41609.33333	245430	28432	1828289	2376	5548363	3678464
137	201302	2013	2	41570.33333	245540	28452	1830694.333	2405	5553641	3681376
138	201303	2013	3	41529.33333	245474	28449	1833309.667	2615	5559483	3684644
139	201304	2013	4	41487.66667	245546	28426	1835372.667	2063	5565205	3688345
140	201401	2014	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
141	201402	2014	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
142	201403	2014	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
143	201404	2014	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
144	201501	2015	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
145	201502	2015	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
146	201503	2015	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
147	201504	2015	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
148	201601	2016	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
149	201602	2016	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
150	201603	2016	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
151	201604	2016	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	201701	2017	QUARTER	CONMMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
152	201701	2017	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
153	201702	2017	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
154	201703	2017	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
155	201704	2017	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
156	201801	2018	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
157	201802	2018	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
158	201803	2018	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
159	201804	2018	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
160	201901	2019	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
161	201902	2019	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
162	201903	2019	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
163	201904	2019	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
164	202001	2020	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
165	202002	2020	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
166	202003	2020	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
167	202004	2020	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
168	202101	2021	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
169	202102	2021	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
170	202103	2021	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
171	202104	2021	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
172	202201	2022	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
173	202202	2022	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
174	202203	2022	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
175	202204	2022	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
176	202301	2023	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
177	202302	2023	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
178	202303	2023	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
179	202304	2023	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
180	202401	2024	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
181	202402	2024	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
182	202403	2024	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
183	202404	2024	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
184	202501	2025	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
185	202502	2025	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
186	202503	2025	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
187	202504	2025	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
188	202601	2026	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
189	202602	2026	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
190	202603	2026	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	CONMMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
191	202604	2026	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
192	202701	2027	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
193	202702	2027	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
194	202703	2027	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
195	202704	2027	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
196	202801	2028	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
197	202802	2028	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
198	202803	2028	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
199	202804	2028	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
200	202901	2029	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
201	202902	2029	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
202	202903	2029	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
203	202904	2029	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
204	203001	2030	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
205	203002	2030	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
206	203003	2030	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
207	203004	2030	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
208	203101	2031	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
209	203102	2031	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
210	203103	2031	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
211	203104	2031	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
212	203201	2032	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
213	203202	2032	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
214	203203	2032	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
215	203204	2032	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
216	203301	2033	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
217	203302	2033	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
218	203303	2033	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
219	203304	2033	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
220	203401	2034	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
221	203402	2034	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
222	203403	2034	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
223	203404	2034	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
224	203501	2035	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
225	203502	2035	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
226	203503	2035	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
227	203504	2035	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
228	203601	2036	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
229	203602	2036	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	CONMMM	CONNCOM	CONNIND	CONNMF	DConnMF	CONNRES	CONNSF
230	203603	2036	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
231	203604	2036	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
232	203701	2037	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
233	203702	2037	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
234	203703	2037	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
235	203704	2037	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
236	203801	2038	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
237	203802	2038	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
238	203803	2038	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
239	203804	2038	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
240	203901	2039	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
241	203902	2039	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
242	203903	2039	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
243	203904	2039	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
244	204001	2040	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
245	204002	2040	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
246	204003	2040	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
247	204004	2040	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
248	204101	2041	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
249	204102	2041	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
250	204103	2041	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
251	204104	2041	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML
1	197902	1979	2						
2	197903	1979	3	12892	11253	385	2475361	1044831	21858
3	197904	1979	4	12256	11397	325	2488253	1056084	22243
4	198001	1980	1	9089	9404	847	2500509	1067481	22568
5	198002	1980	2	8512	8458	815	2509598	1076885	23415
6	198003	1980	3	8160	9104	467	2518110	1085343	24230
7	198004	1980	4	8119	9735	389	2526270	1094447	24697
8	198101	1981	1	5870	8857	6657	2534389	1104182	25086
9	198102	1981	2	1387	7885	-281	2540259	1113039	31743
10	198103	1981	3	4028	7213	-1331	2541646	1120924	31462
11	198104	1981	4	6004	7724	630	2545674	1128137	30131

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONINMM	CONNSFL	CONNMFL	CONNMML
12	198201	1982	1	4454	7756	1021	2551678	1135861	30761
13	198202	1982	2	3459	6896	772	2556132	1143617	31782
14	198203	1982	3	2477	6588	527	2559591	1150513	32554
15	198204	1982	4	3558	6969	537	2562068	1157101	33081
16	198301	1983	1	3325	7398	818	2565626	1164070	33618
17	198302	1983	2	2375	6589	611	2568951	1171468	34436
18	198303	1983	3	4785	7620	487	2571326	1178057	35047
19	198304	1983	4	5483	8256	411	2576111	1185677	35534
20	198401	1984	1	6394	8966	542	2581594	1193933	35945
21	198402	1984	2	6104	7948	370	2587988	1202899	36487
22	198403	1984	3	5195	8197	221	2594092	1210847	36857
23	198404	1984	4	6336	9987	429	2599287	1219044	37078
24	198501	1985	1	6916	11532	570	2605623	1229031	37507
25	198502	1985	2	6430	11706	614	2612539	1240563	38077
26	198503	1985	3	8242	12424	514	2618969	1252269	38691
27	198504	1985	4	7428	9394	372	2627211	1264693	39205
28	198601	1986	1	11510	17665	469	2634639	1274087	39577
29	198602	1986	2	7675	12850	297	2646149	1291752	40046
30	198603	1986	3	10083	16418	271	2653824	1304602	40343
31	198604	1986	4	11078	17625	227	2663907	1321020	40614
32	198701	1987	1	13033	19098	314	2674985	1338645	40841
33	198702	1987	2	10746	17952	360	2688018	1357743	41155
34	198703	1987	3	11816	18293	269	2698764	1375695	41515
35	198704	1987	4	13025	18863	286	2710580	1393988	41784
36	198801	1988	1	12650	18157	410	2723605	1412851	42070
37	198802	1988	2	11374	15237	452	2736255	1431008	42480
38	198803	1988	3	12682	15527	397	2747629	1446245	42932
39	198804	1988	4	14492	15308	251	2760311	1461772	43329
40	198901	1989	1	15226	14528	179	2774803	1477080	43580
41	198902	1989	2	13547	12165	116	2790029	1491608	43759
42	198903	1989	3	14187	12682	147	2803576	1503773	43875
43	198904	1989	4	14475	11232	95	2817763	1516455	44022
44	199001	1990	1	14865	10570	63	2832238	1527687	44117
45	199002	1990	2	12328	9940	71	2847103	1538257	44180
46	199003	1990	3	11822	10464	31	2859431	1548197	44251
47	199004	1990	4	10942	10370	67	2871253	1558661	44282
48	199101	1991	1	10528	9654	81	2882195	1569031	44349
49	199102	1991	2	6826	6541	111	2892723	1578685	44430
50	199103	1991	3	10001	7589	161	2899549	1585226	44541

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONINMM	197	CONNSFL	CONNMFL	CONNMML
51	199104	1991	4	8195	6541	197	2909550	1592815	44702	
52	199201	1992	1	10008	6292	211	2917745	1599356	44899	
53	199202	1992	2	6002	3882	98	2927753	1605648	45110	
54	199203	1992	3	6843	4803	113	2933755	1609530	45208	
55	199204	1992	4	6517	3460	115	2940598	1614333	45321	
56	199301	1993	1	8026	5190	163	2947115	1617793	45436	
57	199302	1993	2	6186	2998	184	2955141	1622983	45599	
58	199303	1993	3	6464	3013	191	2961327	1625981	45783	
59	199304	1993	4	7800	2390	60	2967791	1628994	45974	
60	199401	1994	1	8330	2552	5	2975591	1631384	46034	
61	199402	1994	2	6835	1510	81	2983921	1633936	46039	
62	199403	1994	3	7310	853	36	2990756	1635446	46120	
63	199404	1994	4	6120	2324	15	2998066	1636299	46156	
64	199501	1995	1	9795	741	29	3004186	1638623	46171	
65	199502	1995	2	7734	2532	67	3013981	1639364	46200	
66	199503	1995	3	7212	2334	127	3021715	1641896	46267	
67	199504	1995	4	7587	2650	73	3028927	1644230	46394	
68	199601	1996	1	11881	3785	3	3036514	1646880	46467	
69	199602	1996	2	12763	3159	-44	3048395	1650665	46470	
70	199603	1996	3	2490	-172	-23	3061158	1653824	46426	
71	199604	1996	4	8821	1636	-34	3063648	1653652	46403	
72	199701	1997	1	8477	1868	-67	3072469	1655288	46369	
73	199702	1997	2	8053	1427	-37	3080946	1657156	46302	
74	199703	1997	3	8559	1256	-33	3088999	1658583	46265	
75	199704	1997	4	9726	1542	-88	3097558	1659839	46232	
76	199801	1998	1	9612	1698	-6	3107284	1661381	46144	
77	199802	1998	2	8839	1218	-75	3116896	1663079	46138	
78	199803	1998	3	9045	940	7	3125735	1664297	46063	
79	199804	1998	4	10227	1029	-84	3134780	1665237	46070	
80	199901	1999	1	10828	1478	-45	3145007	1666266	45986	
81	199902	1999	2	10418	1195	-46	3155835	1667744	45941	
82	199903	1999	3	10622	962	14	3166253	1668939	45895	
83	199904	1999	4	11571	1256	-32	3176875	1669901	45909	
84	200001	2000	1	11329	953	-114	3188446	1671157	45877	
85	200002	2000	2	10373	1380	-155	3199775	1672110	45763	
86	200003	2000	3	10499	1215	-39	3210148	1673490	45608	
87	200004	2000	4	13270	1097	-83	3220647	1674705	45569	
88	200101	2001	1	12729	648	-133	3233917	1675802	45486	
89	200102	2001	2	12252	1278	-125	3246646	1676450	45353	

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONINMM	CONNSFL	CONNMFL	CONNMML
90	200103	2001	3	12743	1734	-42	3258898	1677728	45228
91	200104	2001	4	13854	1401	-61	3271641	1679462	45186
92	200201	2002	1	14283	1630	-80	3285495	1680863	45125
93	200202	2002	2	12500	1575	-98	3299778	1682493	45045
94	200203	2002	3	12498	1219	-97	3312278	1684068	44947
95	200204	2002	4	14313	1475	-96	3324776	1685287	44850
96	200301	2003	1	15410	1411	-63	3339089	1686762	44754
97	200302	2003	2	11940	3627	-131	3354499	1688173	44691
98	200303	2003	3	11093	7146	-109	3366439	1691800	44560
99	200304	2003	4	14926	3772	-56	3377532	1698946	44451
100	200401	2004	1	14791	3965	-96	3392458	1702718	44395
101	200402	2004	2	14353	3061	-97	3407249	1706683	44299
102	200403	2004	3	15303	1879	-106	3421602	1709744	44202
103	200404	2004	4	16602	2543	-53	3436905	1711623	44096
104	200501	2005	1	15397	2447	-94	3453507	1714166	44043
105	200502	2005	2	14508	1627	-94	3468904	1716613	43949
106	200503	2005	3	18868	3658	-69	3483412	1718240	43855
107	200504	2005	4	14821	2108	-167	3502280	1721898	43786
108	200601	2006	1	17036	4097	-122	3517101	1724006	43619
109	200602	2006	2	15252	4238	-102	3534137	1728103	43497
110	200603	2006	3	13387	4470	-123	3549389	1732341	43395
111	200604	2006	4	13403	4852	-90	3562776	1736811	43272
112	200701	2007	1	12018	6414	-42	3576179	1741663	43182
113	200702	2007	2	8118	5181	-69	3588197	1748077	43140
114	200703	2007	3	7981	4919	-53	3596315	1753258	43071
115	200704	2007	4	8100	5320	-87	3604296	1758177	43018
116	200801	2008	1	6340	5175	-86	3612396	1763497	42931
117	200802	2008	2	4560	5322	-109	3618736	1768672	42845
118	200803	2008	3	4902	5743	-91	3623296	1773994	42736
119	200804	2008	4	4554	4902	-73	3628198	1779737	42645
120	200901	2009	1	3500	3328	-90	3632752	1784639	42572
121	200902	2009	2	2651	4100	-44	3636252	1787967	42482
122	200903	2009	3	3299	3917	-42	3638903	1792067	42438
123	200904	2009	4	3461	2821	-56	3642202	1795984	42396
124	201001	2010	1	3204	3678	-53	3645663	1798805	42340
125	201002	2010	2	3013	3130	-61	3648867	1802483	42287
126	201003	2010	3	2980	3233	-76	3651880	1805613	42226
127	201004	2010	4	2812	2225	-69	3654860	1808846	42150
128	201101	2011	1	2195	1324	-65	3657672	1811071	42081

OBS	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONINMM	CONNSFL	CONNMFL	CONNMML
129	201102	2011	2	1877	1349	-46	3659867	1812395	42016
130	201103	2011	3	2271	1620	-46	3661744	1813744	41970
131	201104	2011	4	2357	1940	-54	3664015	1815364	41924
132	201201	2012	1	1999	2289	-64	3666372	1817304	41870
133	201202	2012	2	1852	2195	-49	3668371	1819593	41806
134	201203	2012	3	2282	2197	-58	3670223	1821789	41756
135	201204	2012	4	2824	1927	-41	3672506	1823985	41698
136	201301	2013	1	3135	2376	-47	3675330	1825913	41657
137	201302	2013	2	2912	2405	-39	3678464	1828289	41609
138	201303	2013	3	3268	2615	-41	3681376	1830694	41570
139	201304	2013	4	3701	2063	-42	3684644	1833310	41529
140	201401	2014	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
141	201402	2014	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
142	201403	2014	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
143	201404	2014	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
144	201501	2015	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
145	201502	2015	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
146	201503	2015	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
147	201504	2015	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
148	201601	2016	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
149	201602	2016	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
150	201603	2016	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
151	201604	2016	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
152	201701	2017	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
153	201702	2017	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
154	201703	2017	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
155	201704	2017	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
156	201801	2018	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
157	201802	2018	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
158	201803	2018	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
159	201804	2018	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
160	201901	2019	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
161	201902	2019	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
162	201903	2019	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
163	201904	2019	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
164	202001	2020	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
165	202002	2020	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
166	202003	2020	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
167	202004	2020	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	202101	2021	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	CONNMFL	CONNMML	
168	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML
169	202102	2021	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
170	202103	2021	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
171	202104	2021	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
172	202201	2022	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
173	202202	2022	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
174	202203	2022	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
175	202204	2022	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
176	202301	2023	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
177	202302	2023	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
178	202303	2023	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
179	202304	2023	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
180	202401	2024	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
181	202402	2024	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
182	202403	2024	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
183	202404	2024	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
184	202501	2025	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
185	202502	2025	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
186	202503	2025	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
187	202504	2025	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
188	202601	2026	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
189	202602	2026	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
190	202603	2026	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
191	202604	2026	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
192	202701	2027	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
193	202702	2027	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
194	202703	2027	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
195	202704	2027	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
196	202801	2028	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
197	202802	2028	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
198	202803	2028	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
199	202804	2028	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
200	202901	2029	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
201	202902	2029	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
202	202903	2029	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
203	202904	2029	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
204	203001	2030	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
205	203002	2030	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
206	203003	2030	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	203004	2030	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	CONNMFL	CONNMML
207	DTE	YEAR	QUARTER	DCONNSF	DCONNMF	DCONNMM	CONNSFL	CONNMFL	CONNMML					
208	203101	2031	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
209	203102	2031	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
210	203103	2031	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
211	203104	2031	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
212	203201	2032	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
213	203202	2032	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
214	203203	2032	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
215	203204	2032	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
216	203301	2033	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
217	203302	2033	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
218	203303	2033	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
219	203304	2033	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
220	203401	2034	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
221	203402	2034	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
222	203403	2034	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
223	203404	2034	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
224	203501	2035	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
225	203502	2035	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
226	203503	2035	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
227	203504	2035	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
228	203601	2036	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
229	203602	2036	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
230	203603	2036	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
231	203604	2036	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
232	203701	2037	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
233	203702	2037	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
234	203703	2037	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
235	203704	2037	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
236	203801	2038	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
237	203802	2038	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
238	203803	2038	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
239	203804	2038	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
240	203901	2039	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
241	203902	2039	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
242	203903	2039	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
243	203904	2039	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
244	204001	2040	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
245	204002	2040	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	#N/A	DCONNSF	#N/A	DCONNMF	#N/A	DCONNMM	#N/A	CONNSFL	#N/A	CONNMFL	#N/A	CONNMML
246	204003	2040	3	#N/A	DCONNSF	#N/A	DCONNMF	#N/A	DCONNMM	#N/A	CONNSFL	#N/A	CONNMFL	#N/A	CONNMML
247	204004	2040	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
248	204101	2041	1	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
249	204102	2041	2	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
250	204103	2041	3	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
251	204104	2041	4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
1	197902	1979	2	44808.01337					68518.25334	
2	197903	1979	3	41461.18751	44808.013				64910.01276	68518.25
3	197904	1979	4	43742.01434	41461.188	44808.01337			54917.23079	64910.01
4	198001	1980	1	33673.57974	43742.014	41461.18751	44808.01337		45762.28758	54917.23
5	198002	1980	2	25028.61526	33673.58	43742.01434	41461.18751		32749.31115	45762.29
6	198003	1980	3	27336.49457	25028.615	33673.57974	43742.01434		41728.36932	32749.31
7	198004	1980	4	31016.37109	27336.495	25028.61526	33673.57974		46676.80278	41728.37
8	198101	1981	1	24950.37298	31016.371	27336.49457	25028.61526		39574.02365	46676.8
9	198102	1981	2	24365.27858	24950.373	31016.37109	27336.49457		41776.7275	39574.02
10	198103	1981	3	18653.62173	24365.279	24950.37298	31016.37109		23206.81937	41776.73
11	198104	1981	4	17023.1623	18653.622	24365.27858	24950.37298		21077.65931	23206.82
12	198201	1982	1	11376.4703	17023.162	18653.62173	24365.27858		22277.80605	21077.66
13	198202	1982	2	15169.93948	11376.47	17023.1623	18653.62173		22068.61295	22277.81
14	198203	1982	3	16699.46124	15169.939	11376.4703	17023.1623		23307.88811	22068.61
15	198204	1982	4	15089.5618	16699.461	15169.93948	11376.4703		30486.66218	23307.89
16	198301	1983	1	23378.5328	15089.562	16699.46124	15169.93948		41957.6425	30486.66
17	198302	1983	2	28808.06941	23378.533	15089.5618	16699.46124		55111.5887	41957.64
18	198303	1983	3	35342.49696	28808.069	23378.5328	15089.5618		56643.00942	55111.59
19	198304	1983	4	37261.24168	35342.497	28808.06941	23378.5328		62425.00937	56643.01
20	198401	1984	1	61170.39726	37261.242	35342.49696	28808.06941		72460.155	62425.01
21	198402	1984	2	50721.26506	61170.397	37261.24168	35342.49696		62754.10599	72460.16
22	198403	1984	3	53245.724	50721.265	61170.39726	37261.24168		52840.16114	62754.11
23	198404	1984	4	53728.60141	53245.724	50721.26506	61170.39726		56294.39311	52840.16
24	198501	1985	1	68584.96899	53728.601	53245.724	50721.26506		68235.00075	56294.39
25	198502	1985	2	68922.73118	68584.969	53728.60141	53245.724		59737.13249	68235
26	198503	1985	3	74459.39188	68922.731	68584.96899	53728.60141		58446.64816	59737.13
27	198504	1985	4	90539.25573	74459.392	68922.73118	68584.96899		62241.34532	58446.65
28	198601	1986	1	91434.67252	90539.256	74459.39188	68922.73118		69343.36266	62241.35
29	198602	1986	2	90754.4208	91434.673	90539.25573	74459.39188		76234.99228	69343.36

30	198603	1986	3	QUARTER	78064.44668	90754.421	91434.67252	90539.25573	74459.39188	70494.17561	76234.99
		YEAR			HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
31	198604	1986	4		102910.6933	78064.447	90754.4208	91434.67252	90539.25573	85702.05245	70494.18
32	198701	1987	1		88329.0399	102910.69	78064.44668	90754.4208	91434.67252	93748.39487	85702.05
33	198702	1987	2		69537.4639	88329.04	102910.6933	78064.44668	90754.4208	73633.53179	93748.39
34	198703	1987	3		69074.46111	69537.464	88329.0399	102910.6933	78064.44668	72942.38849	73633.53
35	198704	1987	4		60126.00595	69074.461	69537.4639	88329.0399	102910.6933	70428.57142	72942.39
36	198801	1988	1		54751.07622	60126.006	69074.46111	69537.4639	88329.0399	90520.81689	70428.57
37	198802	1988	2		50094.1218	54751.076	60126.00595	69074.46111	69537.4639	83024.045	90520.82
38	198803	1988	3		49384.75365	50094.122	54751.07622	60126.00595	69074.46111	89657.2361	83024.05
39	198804	1988	4		55459.8315	49384.754	50094.1218	54751.07622	60126.00595	96932.73572	89657.24
40	198901	1989	1		49105.65078	55459.832	49384.75365	50094.1218	54751.07622	90057.56226	96932.74
41	198902	1989	2		42991.55532	49105.651	55459.8315	49384.75365	50094.1218	92820.76544	90057.56
42	198903	1989	3		38276.56686	42991.555	49105.65078	55459.8315	49384.75365	89624.21432	92820.77
43	198904	1989	4		39504.0224	38276.567	42991.55532	49105.65078	55459.8315	89669.27671	89624.21
44	199001	1990	1		45349.52511	39504.022	38276.56686	42991.55532	49105.65078	80090.42144	89669.28
45	199002	1990	2		35116.17477	45349.525	39504.0224	38276.56686	42991.55532	56586.4542	80090.42
46	199003	1990	3		32110.8421	35116.175	45349.52511	39504.0224	38276.56686	49079.14466	56586.45
47	199004	1990	4		20373.16988	32110.842	35116.17477	45349.52511	39504.0224	40147.93447	49079.14
48	199101	1991	1		12961.10469	20373.17	32110.8421	35116.17477	45349.52511	33439.52342	40147.93
49	199102	1991	2		17283.0623	12961.105	20373.16988	32110.8421	35116.17477	41986.13461	33439.52
50	199103	1991	3		16632.64502	17283.062	12961.10469	20373.16988	32110.8421	40378.31071	41986.13
51	199104	1991	4		15906.88144	16632.645	17283.0623	12961.10469	20373.16988	40231.01488	40378.31
52	199201	1992	1		11852.39249	15906.881	16632.64502	17283.0623	12961.10469	42207.11616	40231.01
53	199202	1992	2		9174.76777	11852.392	15906.88144	16632.64502	17283.0623	43960.9033	42207.12
54	199203	1992	3		9553.84666	9174.7678	11852.39249	15906.88144	16632.64502	40259.95023	43960.9
55	199204	1992	4		9162.87655	9553.8467	9174.76777	11852.39249	15906.88144	41932.31231	40259.95
56	199301	1993	1		7875.76761	9162.8766	9553.84666	9174.76777	11852.39249	37619.82089	41932.31
57	199302	1993	2		6765.0825	7875.7676	9162.87655	9553.84666	9174.76777	41330.08532	37619.82
58	199303	1993	3		5779.8666	6765.0825	7875.76761	9162.87655	9553.84666	34341.67323	41330.09
59	199304	1993	4		3252.10738	5779.8666	6765.0825	7875.76761	9162.87655	37631.34237	34341.67
60	199401	1994	1		5919.74661	3252.1074	5779.8666	6765.0825	7875.76761	43817.32103	37631.34
61	199402	1994	2		7320.67359	5919.7466	3252.10738	5779.8666	6765.0825	40869.94341	43817.32
62	199403	1994	3		9911.20978	7320.6736	5919.74661	3252.10738	5779.8666	42009.25714	40869.94
63	199404	1994	4		12204.76155	9911.2098	7320.67359	5919.74661	3252.10738	36895.3248	42009.26
64	199501	1995	1		8444.24243	12204.762	9911.20978	7320.67359	5919.74661	35178.40195	36895.32
65	199502	1995	2		6911.70407	8444.2424	12204.76155	9911.20978	7320.67359	33240.8534	35178.4
66	199503	1995	3		7032.2603	6911.7041	8444.24243	12204.76155	9911.20978	36244.77905	33240.85
67	199504	1995	4		6873.17937	7032.2603	6911.70407	8444.24243	12204.76155	35369.81743	36244.78
68	199601	1996	1		9463.74525	6873.1794	7032.2603	6911.70407	8444.24243	38633.97964	35369.82

69	199602	1996	2	QUARTER	9535.86386	9463.7453	6873.17937	7032.2603	6911.70407	38329.13939	38633.98
70	199603	1996	3		HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
71	199604	1996	4		5467.29227	9535.8639	9463.74525	6873.17937	7032.2603	37391.8262	38329.14
72	199701	1997	1		8043.1922	5467.2923	9535.86386	9463.74525	6873.17937	33545.94544	37391.83
73	199702	1997	2		6412.84833	8043.1922	5467.29227	9535.86386	9463.74525	43333.95026	33545.95
74	199703	1997	3		12076.77545	6412.8483	8043.1922	5467.29227	9535.86386	38919.23002	43333.95
75	199704	1997	4		7474.42428	12076.775	6412.84833	8043.1922	5467.29227	38503.45071	38919.23
76	199801	1998	1		10374.5378	7474.4243	12076.77545	6412.84833	8043.1922	44298.14993	38503.45
77	199802	1998	2		7046.39885	10374.538	7474.42428	12076.77545	6412.84833	44195.86365	44298.15
78	199803	1998	3		10619.00048	7046.3989	10374.5378	7474.42428	12076.77545	43575.24988	44195.86
79	199804	1998	4		10399.02561	10619	7046.39885	10374.5378	7474.42428	47326.62852	43575.25
80	199901	1999	1		10584.95861	10399.026	10619.00048	7046.39885	10374.5378	43504.09521	47326.63
81	199902	1999	2		12644.54387	10584.959	10399.02561	10619.00048	7046.39885	47206.1354	43504.1
82	199903	1999	3		8471.21676	12644.544	10584.95861	10399.02561	10619.00048	47999.24649	47206.14
83	199904	1999	4		13969.49787	8471.2168	12644.54387	10584.95861	10399.02561	49165.18169	47999.25
84	200001	2000	1		13791.36122	13969.498	8471.21676	12644.54387	10584.95861	47007.23978	49165.18
85	200002	2000	2		17379.07574	13791.361	13969.49787	8471.21676	12644.54387	48660.72957	47007.24
86	200003	2000	3		17038.59844	17379.076	13791.36122	13969.49787	8471.21676	37232.96638	48660.73
87	200004	2000	4		19304.58093	17038.598	17379.07574	13791.36122	13969.49787	44817.17154	37232.97
88	200101	2001	1		10547.16692	19304.581	17038.59844	17379.07574	13791.36122	51901.68925	44817.17
89	200102	2001	2		16505.5265	10547.167	19304.58093	17038.59844	17379.07574	53249.06231	51901.69
90	200103	2001	3		16074.71719	16505.527	10547.16692	19304.58093	17038.59844	53544.00998	53249.06
91	200104	2001	4		14282.40719	16074.717	16505.5265	10547.16692	19304.58093	49637.27174	53544.01
92	200201	2002	1		13194.75157	14282.407	16074.71719	16505.5265	10547.16692	53131.00661	49637.27
93	200202	2002	2		13914.32281	13194.752	14282.40719	16074.71719	16505.5265	61032.27644	53131.01
94	200203	2002	3		12378.27435	13914.323	13194.75157	14282.40719	16074.71719	57453.57714	61032.28
95	200204	2002	4		13115.77705	12378.274	13914.32281	13194.75157	14282.40719	62596.47844	57453.58
96	200301	2003	1		21953.17327	13115.777	12378.27435	13914.32281	13194.75157	66613.28857	62596.48
97	200302	2003	2		19767.88257	21953.173	13115.77705	12378.27435	13914.32281	72660.54551	66613.29
98	200303	2003	3		22295.40366	19767.883	21953.17327	13115.77705	12378.27435	77011.8652	72660.55
99	200304	2003	4		16645.45172	22295.404	19767.88257	21953.17327	13115.77705	64647.59896	77011.87
100	200401	2004	1		19686.79982	16645.452	22295.40366	19767.88257	21953.17327	80965.41311	64647.6
101	200402	2004	2		21156.64829	19686.8	16645.45172	22295.40366	19767.88257	82059.1731	80965.41
102	200403	2004	3		22130.01663	21156.648	19686.79982	16645.45172	22295.40366	81261.51279	82059.17
103	200404	2004	4		25129.80125	22130.017	21156.64829	19686.79982	16645.45172	80419.30961	81261.51
104	200501	2005	1		21789.66445	25129.801	22130.01663	21156.64829	19686.79982	80636.16549	80419.31
105	200502	2005	2		27559.74848	21789.664	25129.80125	22130.01663	21156.64829	79790.26088	80636.17
106	200503	2005	3		19548.49259	27559.748	21789.66445	25129.80125	22130.01663	85813.81206	79790.26
107	200504	2005	4		22739.31443	19548.493	27559.74848	21789.66445	25129.80125	93603.61985	85813.81
					15783.8765	22739.314	19548.49259	27559.74848	21789.66445	81917.16074	93603.62

108	200601	2006	1	QUARTER	25033.42556	15783.877	22739.31443	19548.49259	27559.74848	84891.37086	81917.16
OBS	DTE	YEAR			HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
109	200602	2006	2		21952.99205	25033.426	15783.8765	22739.31443	19548.49259	76961.03129	84891.37
110	200603	2006	3		18624.52322	21952.992	25033.42556	15783.8765	22739.31443	62493.49984	76961.03
111	200604	2006	4		22764.1772	18624.523	21952.99205	25033.42556	15783.8765	53017.00782	62493.5
112	200701	2007	1		21849.83867	22764.177	18624.52322	21952.99205	25033.42556	49090.64446	53017.01
113	200702	2007	2		19207.34564	21849.839	22764.1772	18624.52322	21952.99205	47171.20501	49090.64
114	200703	2007	3		19235.55443	19207.346	21849.83867	22764.1772	18624.52322	34659.35502	47171.21
115	200704	2007	4		17700.48264	19235.554	19207.34564	21849.83867	22764.1772	25966.84852	34659.36
116	200801	2008	1		17599.18453	17700.483	19235.55443	19207.34564	21849.83867	24097.91667	25966.85
117	200802	2008	2		17751.77436	17599.185	17700.48264	19235.55443	19207.34564	21915.88673	24097.92
118	200803	2008	3		9039.66712	17751.774	17599.18453	17700.48264	19235.55443	17584.21906	21915.89
119	200804	2008	4		10039.18121	9039.667	17751.77436	17599.18453	17700.48264	13975.82455	17584.22
120	200901	2009	1		9241.58876	10039.181	9039.66712	17751.77436	17599.18453	11113.2261	13975.82
121	200902	2009	2		6264.82913	9241.5888	10039.18121	9039.66712	17751.77436	16181.89595	11113.23
122	200903	2009	3		4013.25244	6264.829	9241.58876	10039.18121	9039.66712	16634.26267	16181.9
123	200904	2009	4		3102.9287	4013.252	6264.82913	9241.58876	10039.18121	15636.69952	16634.26
124	201001	2010	1		5560.83419	3102.928	4013.25244	6264.82913	9241.58876	16947.90628	15636.7
125	201002	2010	2		4175.39695	5560.834	3102.9287	4013.25244	6264.82913	14033.07554	16947.91
126	201003	2010	3		10973.71628	4175.397	5560.83419	3102.9287	4013.25244	13696.62328	14033.08
127	201004	2010	4		6502.53362	10973.716	4175.39695	5560.83419	3102.9287	15847.43737	13696.62
128	201101	2011	1		4651.68846	6502.533	10973.71628	4175.39695	5560.83419	14952.668	15847.44
129	201102	2011	2		16858.97801	4651.6885	6502.53362	10973.71628	4175.39695	12307.62464	14952.67
130	201103	2011	3		13225.38666	16858.978	4651.68846	6502.53362	10973.71628	11220.87581	12307.62
131	201104	2011	4		11754.9059	13225.387	16858.97801	4651.68846	6502.53362	11832.17184	11220.88
132	201201	2012	1		12522.1812	11754.906	13225.38666	16858.97801	4651.68846	12361.1151	11832.17
133	201202	2012	2		18517.71771	12522.181	11754.9059	13225.38666	16858.97801	13035.16788	12361.12
134	201203	2012	3		13623.15528	18517.718	12522.1812	11754.9059	13225.38666	14904.89683	13035.17
135	201204	2012	4		12872.80708	13623.155	18517.71771	12522.1812	11754.9059	19073.21659	14904.9
136	201301	2013	1		18510.47369	12872.807	13623.15528	18517.71771	12522.1812	19547.93734	19073.22
137	201302	2013	2		15949.82511	18510.474	12872.80708	13623.15528	18517.71771	18271.83258	19547.94
138	201303	2013	3		17156.06076	15949.825	18510.47369	12872.80708	13623.15528	20403.39279	18271.83
139	201304	2013	4		21542.52762	17156.061	15949.82511	18510.47369	12872.80708	22383.63489	20403.39
140	201401	2014	1		21089.97961	21542.528	17156.06076	15949.82511	18510.47369	22372.62498	22383.63
141	201402	2014	2		22241.02817	21089.98	21542.52762	17156.06076	15949.82511	25858.72031	22372.62
142	201403	2014	3		22189.92804	22241.028	21089.97961	21542.52762	17156.06076	29712.68729	25858.72
143	201404	2014	4		24665.41159	22189.928	22241.02817	21089.97961	17156.06076	32840.14495	29712.69
144	201501	2015	1		26011.28471	24665.412	22189.92804	22241.02817	21089.97961	36340.94713	32840.14
145	201502	2015	2		27666.93414	26011.285	24665.41159	22189.92804	22241.02817	40550.4618	36340.95
146	201503	2015	3		29381.7514	27666.934	26011.28471	24665.41159	22189.92804	44965.58043	40550.46

147	201504	2015	4	QUARTER	31320.34926	29381.751	27666.93414	26011.28471	24665.41159	48200.02818	44965.58
OBS	DTE	YEAR			HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
148	201601	2016	1		31569.93335	31320.349	29381.7514	27666.93414	26011.28471	51330.30752	48200.03
149	201602	2016	2		31564.33147	31569.933	31320.34926	29381.7514	27666.93414	53881.53419	51330.31
150	201603	2016	3		31687.57132	31564.331	31569.93335	31320.34926	29381.7514	55896.52516	53881.53
151	201604	2016	4		31872.10915	31687.571	31564.33147	31569.93335	31320.34926	56846.14115	55896.53
152	201701	2017	1		32756.29534	31872.109	31687.57132	31564.33147	31569.93335	57830.04346	56846.14
153	201702	2017	2		32543.38278	32756.295	31872.10915	31687.57132	31564.33147	57508.9618	57830.04
154	201703	2017	3		32358.10766	32543.383	32756.29534	31872.10915	31687.57132	57085.5764	57508.96
155	201704	2017	4		32605.91295	32358.108	32543.38278	32756.29534	31872.10915	57028.56651	57085.58
156	201801	2018	1		33276.77334	32605.913	32358.10766	32543.38278	32756.29534	56771.92475	57028.57
157	201802	2018	2		33261.61561	33276.773	32605.91295	32358.10766	32543.38278	56508.10441	56771.92
158	201803	2018	3		33931.16985	33261.616	33276.77334	32605.91295	32358.10766	56538.64417	56508.1
159	201804	2018	4		35251.45864	33931.17	33261.61561	33276.77334	32605.91295	56393.2031	56538.64
160	201901	2019	1		35655.68877	35251.459	33931.16985	33261.61561	33276.77334	56369.53736	56393.2
161	201902	2019	2		35659.38839	35655.689	35251.45864	33931.16985	33261.61561	56011.1686	56369.54
162	201903	2019	3		35934.76451	35659.388	35655.68877	35251.45864	33931.16985	56063.74091	56011.17
163	201904	2019	4		35971.27502	35934.765	35659.38839	35655.68877	35251.45864	56083.65372	56063.74
164	202001	2020	1		35499.3141	35971.275	35934.76451	35659.38839	35655.68877	55725.96712	56083.65
165	202002	2020	2		35192.00181	35499.314	35971.27502	35934.76451	35659.38839	55229.27893	55725.97
166	202003	2020	3		34961.74359	35192.002	35499.3141	35971.27502	35934.76451	54957.55431	55229.28
167	202004	2020	4		34732.54532	34961.744	35192.00181	35499.3141	35971.27502	54472.35255	54957.55
168	202101	2021	1		34051.6318	34732.545	34961.74359	35192.00181	35499.3141	53981.02823	54472.35
169	202102	2021	2		33928.96138	34051.632	34732.54532	34961.74359	35192.00181	53307.66235	53981.03
170	202103	2021	3		33971.43628	33928.961	34051.6318	34732.54532	34961.74359	52883.59174	53307.66
171	202104	2021	4		33798.5629	33971.436	33928.96138	34051.6318	34732.54532	52408.8878	52883.59
172	202201	2022	1		33834.13198	33798.563	33971.43628	33928.96138	34051.6318	52043.40046	52408.89
173	202202	2022	2		33784.72249	33834.132	33798.5629	33971.43628	33928.96138	51660.6168	52043.4
174	202203	2022	3		33934.0355	33784.722	33834.13198	33798.5629	33971.43628	51395.27234	51660.62
175	202204	2022	4		33823.89721	33934.035	33784.72249	33834.13198	33798.5629	51280.90455	51395.27
176	202301	2023	1		33942.57795	33823.897	33934.0355	33784.72249	33834.13198	51375.96186	51280.9
177	202302	2023	2		33843.17858	33942.578	33823.89721	33934.0355	33784.72249	51141.39451	51375.96
178	202303	2023	3		34146.80164	33843.179	33942.57795	33823.89721	33934.0355	50907.32862	51141.39
179	202304	2023	4		34316.77401	34146.802	33843.17858	33942.57795	33823.89721	50472.80129	50907.33
180	202401	2024	1		34784.87758	34316.774	34146.80164	33843.17858	33942.57795	50427.41783	50472.8
181	202402	2024	2		35425.45367	34784.878	34316.77401	34146.80164	33843.17858	50305.37268	50427.42
182	202403	2024	3		36093.74857	35425.454	34784.87758	34316.77401	34146.80164	50021.21006	50305.37
183	202404	2024	4		36519.8269	36093.749	35425.45367	34784.87758	34316.77401	50265.13291	50021.21
184	202501	2025	1		37021.28795	36519.827	36093.74857	35425.45367	34784.87758	50676.36134	50265.13
185	202502	2025	2		37237.9848	37021.288	36519.8269	36093.74857	35425.45367	50903.19373	50676.36

186	202503	2025	3	QUARTER	37602.72898	37237.985	37021.28795	36519.8269	36093.74857	50987.39411	50903.19
OBS	DTE	YEAR			HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
187	202504	2025	4		37984.37159	37602.729	37237.9848	37021.28795	36519.8269	51028.01945	50987.39
188	202601	2026	1		38538.62422	37984.372	37602.72898	37237.9848	37021.28795	50994.9299	51028.02
189	202602	2026	2		38686.67821	38538.624	37984.37159	37602.72898	37237.9848	50739.0818	50994.93
190	202603	2026	3		38842.42426	38686.678	38538.62422	37984.37159	37602.72898	50560.71944	50739.08
191	202604	2026	4		38800.77505	38842.424	38686.67821	38538.62422	37984.37159	50154.55894	50560.72
192	202701	2027	1		38900.22549	38800.775	38842.42426	38686.67821	38538.62422	50318.61399	50154.56
193	202702	2027	2		38846.58209	38900.225	38800.77505	38842.42426	38686.67821	50045.29949	50318.61
194	202703	2027	3		38717.70124	38846.582	38900.22549	38800.77505	38842.42426	49489.05913	50045.3
195	202704	2027	4		38341.24067	38717.701	38846.58209	38900.22549	38800.77505	48899.77431	49489.06
196	202801	2028	1		38922.8924	38341.241	38717.70124	38846.58209	38900.22549	48454.2958	48899.77
197	202802	2028	2		39289.51171	38922.892	38341.24067	38846.58209	38900.22549	48031.41157	48454.3
198	202803	2028	3		39543.16886	39289.512	38922.8924	38341.24067	38717.70124	47578.79069	48031.41
199	202804	2028	4		39561.03731	39543.169	39289.51171	38922.8924	38341.24067	47203.63119	47578.79
200	202901	2029	1		40006.39173	39561.037	39543.16886	39289.51171	38922.8924	47371.14944	47203.63
201	202902	2029	2		40152.34167	40006.392	39561.03731	39543.16886	39289.51171	47466.19077	47371.15
202	202903	2029	3		40159.58391	40152.342	40006.39173	39561.03731	39543.16886	47528.33869	47466.19
203	202904	2029	4		40066.92761	40159.584	40152.34167	40006.39173	39561.03731	47580.43072	47528.34
204	203001	2030	1		40792.5498	40066.928	40159.58391	40152.34167	40006.39173	47499.38405	47580.43
205	203002	2030	2		40988.71943	40792.55	40066.92761	40159.58391	40152.34167	47399.9578	47499.38
206	203003	2030	3		40880.89381	40988.719	40792.5498	40066.92761	40159.58391	47639.92527	47399.96
207	203004	2030	4		40922.79588	40880.894	40988.71943	40792.5498	40066.92761	47718.65421	47639.93
208	203101	2031	1		41310.22575	40922.796	40880.89381	40988.71943	40792.5498	47661.83191	47718.65
209	203102	2031	2		40858.30054	41310.226	40922.79588	40880.89381	40988.71943	46880.62142	47661.83
210	203103	2031	3		40707.46872	40858.301	41310.22575	40922.79588	40880.89381	46327.72724	46880.62
211	203104	2031	4		40778.50178	40707.469	40858.30054	41310.22575	40922.79588	45968.8905	46327.73
212	203201	2032	1		41172.97314	40778.502	40707.46872	40858.30054	41310.22575	45689.43741	45968.89
213	203202	2032	2		40670.85264	41172.973	40778.50178	40707.46872	40858.30054	44987.26343	45689.44
214	203203	2032	3		40474.43592	40670.853	41172.97314	40778.50178	40707.46872	44459.15804	44987.26
215	203204	2032	4		40524.53733	40474.436	40670.85264	41172.97314	40778.50178	44355.83323	44459.16
216	203301	2033	1		40945.26981	40524.537	40474.43592	40670.85264	41172.97314	44602.23165	44355.83
217	203302	2033	2		40587.98941	40945.27	40524.53733	40474.43592	40670.85264	44638.78063	44602.23
218	203303	2033	3		40439.48051	40587.989	40945.26981	40524.53733	40474.43592	44702.08498	44638.78
219	203304	2033	4		40518.5508	40439.481	40587.98941	40945.26981	40524.53733	44938.58947	44702.08
220	203401	2034	1		40978.87342	40518.551	40439.48051	40587.98941	40945.26981	45192.18789	44938.59
221	203402	2034	2		40534.16958	40978.873	40518.5508	40439.48051	40587.98941	45025.25372	45192.19
222	203403	2034	3		40767.00717	40534.17	40978.87342	40518.5508	40439.48051	44982.59684	45025.25
223	203404	2034	4		40758.18777	40767.007	40534.16958	40978.87342	40518.5508	45311.01616	44982.6
224	203501	2035	1		41115.38371	40758.188	40767.00717	40534.16958	40978.87342	45760.13902	45311.02

225	203502	2035	2	40667.30036	41115.384	40758.18777	40767.00717	40534.16958	45901.71257	45760.14
OBS	DTE	YEAR	QUARTER	HSMF	HSMFL1	HSMFL2	HSMFL3	HSMFL4	HSSF	HSSFL1
226	203503	2035	3	40803.83744	40667.3	41115.38371	40758.18777	40767.00717	45997.27254	45901.71
227	203504	2035	4	40757.54432	40803.837	40667.30036	41115.38371	40758.18777	46162.47834	45997.27
228	203601	2036	1	41145.75443	40757.544	40803.83744	40667.30036	41115.38371	46174.93893	46162.48
229	203602	2036	2	40711.02226	41145.754	40757.54432	40803.83744	40667.30036	45864.00793	46174.94
230	203603	2036	3	40918.52473	40711.022	41145.75443	40757.54432	40803.83744	45613.88708	45864.01
231	203604	2036	4	40917.11513	40918.525	40711.02226	41145.75443	40757.54432	45623.99982	45613.89
232	203701	2037	1	41217.1563	40917.115	40918.52473	40711.02226	41145.75443	45830.48526	45624
233	203702	2037	2	41068.57652	41217.156	40917.11513	40918.52473	40711.02226	45926.58296	45830.49
234	203703	2037	3	41164.867	41068.577	41217.1563	40917.11513	40918.52473	46106.93194	45926.58
235	203704	2037	4	41041.47744	41164.867	41068.57652	41217.1563	40917.11513	46311.14282	46106.93
236	203801	2038	1	41198.45396	41041.477	41164.867	41068.57652	41217.1563	46581.56514	46311.14
237	203802	2038	2	41062.02143	41198.454	41198.45396	41164.867	41068.57652	46526.20489	46581.57
238	203803	2038	3	41039.65746	41062.021	41198.45396	41041.47744	41164.867	46412.05275	46526.2
239	203804	2038	4	40928.08066	41039.657	41062.02143	41198.45396	41041.47744	46359.09843	46412.05
240	203901	2039	1	41097.83731	40928.081	41039.65746	41062.02143	41198.45396	46415.2983	46359.1
241	203902	2039	2	40967.27373	41097.837	40928.08066	41039.65746	41062.02143	46138.49262	46415.3
242	203903	2039	3	40956.88931	40967.274	41097.83731	40928.08066	41039.65746	45966.5962	46138.49
243	203904	2039	4	40770.98707	40956.889	40967.27373	41097.83731	40928.08066	46087.03909	45966.6
244	204001	2040	1	41119.6592	40770.987	40956.88931	40967.27373	41097.83731	46405.35574	46087.04
245	204002	2040	2	41104.51534	41119.659	40770.98707	40956.88931	40967.27373	46566.24978	46405.36
246	204003	2040	3	40430.59639	41104.515	41119.6592	40770.98707	40956.88931	46696.86433	46566.25
247	204004	2040	4	41318.74535	40430.596	41104.51534	41119.6592	40770.98707	46890.22753	46696.86
248	204101	2041	1	41543.75713	41318.745	40430.59639	41104.51534	41119.6592	47100.47399	46890.23
249	204102	2041	2	41641.17814	41543.757	41318.74535	40430.59639	41104.51534	47053.86468	47100.47
250	204103	2041	3	41778.77703	41641.178	41543.75713	41318.74535	40430.59639	46976.68293	47053.86
251	204104	2041	4	41909.92946	41778.777	41641.17814	41543.75713	41318.74535	46889.72985	46976.68

OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
1	197902	1979	2				113326.2667			
2	197903	1979	3				106371.2003	113326.2667		
3	197904	1979	4	68518.25334			98659.24513	106371.2003	113326.2667	
4	198001	1980	1	64910.01276	68518.253		79435.86732	98659.24513	106371.2003	113326.3
5	198002	1980	2	54917.23079	64910.013	68518.25334	57777.92641	79435.86732	98659.24513	106371.2
6	198003	1980	3	45762.28758	54917.231	64910.01276	69064.86389	57777.92641	79435.86732	98659.25
7	198004	1980	4	32749.31115	45762.288	54917.23079	77693.17387	69064.86389	57777.92641	79435.87

8	198101	1981	1	41728.36932	32749.311	45762.28758	64524.39663	77693.17387	69064.86389	57777.93
9	198102	1981	2	46676.80278	41728.369	32749.31115	66142.00608	64524.39663	77693.17387	69064.86
10	198103	1981	3	39574.02365	46676.803	41728.36932	41860.4411	66142.00608	64524.39663	77693.17
11	198104	1981	4	41776.7275	39574.024	46676.80278	38100.82161	41860.4411	66142.00608	64524.4
12	198201	1982	1	23206.81937	41776.728	39574.02365	33654.27635	38100.82161	41860.4411	66142.01
13	198202	1982	2	21077.65931	23206.819	41776.7275	37238.55243	33654.27635	38100.82161	41860.44
14	198203	1982	3	22277.80605	21077.659	23206.81937	40007.34935	37238.55243	33654.27635	38100.82
15	198204	1982	4	22068.61295	22277.806	21077.65931	45576.22398	40007.34935	37238.55243	33654.28
16	198301	1983	1	23307.88811	22068.613	22277.80605	65336.1753	45576.22398	40007.34935	37238.55
17	198302	1983	2	30486.66218	23307.888	22068.61295	83919.65811	65336.1753	45576.22398	40007.35
18	198303	1983	3	41957.6425	30486.662	23307.88811	91985.50638	83919.65811	65336.1753	45576.22
19	198304	1983	4	55111.5887	41957.643	30486.66218	99686.25105	91985.50638	83919.65811	65336.18
20	198401	1984	1	56643.00942	55111.589	41957.6425	133630.5523	99686.25105	91985.50638	83919.66
21	198402	1984	2	62425.00937	56643.009	55111.5887	113475.3711	133630.5523	99686.25105	91985.51
22	198403	1984	3	72460.155	62425.009	56643.00942	106085.8851	113475.3711	133630.5523	99686.25
23	198404	1984	4	62754.10599	72460.155	62425.00937	110022.9945	106085.8851	113475.3711	133630.6
24	198501	1985	1	52840.16114	62754.106	72460.155	136819.9697	110022.9945	106085.8851	113475.4
25	198502	1985	2	56294.39311	52840.161	62754.10599	128659.8637	136819.9697	110022.9945	106085.9
26	198503	1985	3	68235.00075	56294.393	52840.16114	132906.04	128659.8637	136819.9697	110023
27	198504	1985	4	59737.13249	68235.001	56294.39311	152780.6011	132906.04	128659.8637	136820
28	198601	1986	1	58446.64816	59737.132	68235.00075	160778.0352	152780.6011	132906.04	128659.9
29	198602	1986	2	62241.34532	58446.648	59737.13249	166989.4131	160778.0352	152780.6011	132906
30	198603	1986	3	69343.36266	62241.345	58446.64816	148558.6223	166989.4131	160778.0352	152780.6
31	198604	1986	4	76234.99228	69343.363	62241.34532	188612.7458	148558.6223	166989.4131	160778
32	198701	1987	1	70494.17561	76234.992	69343.36266	182077.4348	188612.7458	148558.6223	166989.4
33	198702	1987	2	85702.05245	70494.176	76234.99228	143170.9957	182077.4348	148558.6223	166989.4
34	198703	1987	3	93748.39487	85702.052	70494.17561	142016.8496	143170.9957	182077.4348	188612.7
35	198704	1987	4	73633.53179	93748.395	85702.05245	130554.5774	142016.8496	143170.9957	182077.4
36	198801	1988	1	72942.38849	73633.532	93748.39487	145271.8931	130554.5774	142016.8496	143171
37	198802	1988	2	70428.57142	72942.388	73633.53179	133118.1668	145271.8931	130554.5774	142016.8
38	198803	1988	3	90520.81689	70428.571	72942.38849	139041.9898	133118.1668	145271.8931	130554.6
39	198804	1988	4	83024.045	90520.817	70428.57142	152392.5672	139041.9898	133118.1668	145271.9
40	198901	1989	1	89657.2361	83024.045	90520.81689	139163.213	152392.5672	139041.9898	133118.2
41	198902	1989	2	96932.73572	89657.236	83024.045	135812.3208	139163.213	152392.5672	139042
42	198903	1989	3	90057.56226	96932.736	89657.2361	127900.7812	135812.3208	139163.213	152392.6
43	198904	1989	4	92820.76544	90057.562	96932.73572	129173.2991	127900.7812	135812.3208	139163.2
44	199001	1990	1	89624.21432	92820.765	90057.56226	125439.9466	129173.2991	127900.7812	135812.3
45	199002	1990	2	89669.27671	89624.214	92820.76544	91702.62897	125439.9466	129173.2991	127900.8
46	199003	1990	3	80090.42144	89669.277	89624.21432	81189.98676	91702.62897	125439.9466	129173.3

47	199004	1990	4	QUARTER	56586.4542	80090.421	89669.27671	60521.10435	81189.98676	91702.62897	125439.9
48	199101	1991	1	HSSFL2	49079.14466	56586.454	80090.42144	46400.62811	HSTOTL1	HSTOTL2	HSTOTL3
49	199102	1991	2	HSSFL3	40147.93447	49079.145	56586.4542	59269.19691	60521.10435	81189.98676	91702.63
50	199103	1991	3	HSSFL4	33439.52342	40147.934	49079.14466	57010.95573	46400.62811	60521.10435	81189.99
51	199104	1991	4	HSSFL3	41986.13461	33439.523	40147.93447	56137.89632	59269.19691	46400.62811	60521.1
52	199201	1992	1	HSSFL2	40378.31071	41986.135	33439.52342	54059.50865	57010.95573	59269.19691	46400.63
53	199202	1992	2	HSSFL3	40231.01488	40378.311	41986.13461	53135.67107	56137.89632	57010.95573	59269.2
54	199203	1992	3	HSSFL4	42207.11616	40231.015	40378.31071	49813.79689	54059.50865	56137.89632	57010.96
55	199204	1992	4	HSSFL3	43960.9033	42207.116	40231.01488	51095.18886	53135.67107	54059.50865	56137.9
56	199301	1993	1	HSSFL2	40259.95023	43960.903	42207.11616	45495.5885	49813.79689	53135.67107	54059.51
57	199302	1993	2	HSSFL3	41932.31231	40259.95	43960.9033	48095.16782	49813.79689	53135.67107	54059.51
58	199303	1993	3	HSSFL4	37619.82089	41932.312	40259.95023	40121.53983	51095.18886	49813.79689	53135.67
59	199304	1993	4	HSSFL3	41330.08532	37619.821	41932.31231	40883.44975	45495.5885	51095.18886	49813.8
60	199401	1994	1	HSSFL2	34341.67323	41330.085	37619.82089	49737.06764	48095.16782	45495.5885	51095.19
61	199402	1994	2	HSSFL3	37631.34237	34341.673	41330.08532	48190.617	40121.53983	48095.16782	45495.59
62	199403	1994	3	HSSFL4	43817.32103	37631.342	34341.67323	51920.46692	40121.53983	48095.16782	45495.59
63	199404	1994	4	HSSFL3	40869.94341	43817.321	37631.34237	43622.64438	40121.53983	48095.16782	45495.59
64	199501	1995	1	HSSFL2	42009.25714	40869.943	43817.32103	40152.55747	40121.53983	48095.16782	45495.59
65	199502	1995	2	HSSFL3	36895.3248	42009.257	40869.94341	40152.55747	40883.44975	40121.53983	48095.17
66	199503	1995	3	HSSFL4	35178.40195	36895.325	42009.25714	43277.03935	40883.44975	40121.53983	48095.17
67	199504	1995	4	HSSFL3	33240.8534	35178.402	36895.3248	42242.9968	49737.06764	40121.53983	48095.17
68	199601	1996	1	HSSFL2	36244.77905	33240.853	35178.40195	48097.72489	48190.617	49737.06764	40883.45
69	199602	1996	2	HSSFL3	35369.81743	36244.779	33240.8534	47865.00325	48190.617	49737.06764	40883.45
70	199603	1996	3	HSSFL4	38633.97964	35369.817	36244.77905	42859.11847	51920.46692	48190.617	49737.07
71	199604	1996	4	HSSFL3	38329.13939	38633.98	35369.81743	41589.13764	51920.46692	48190.617	49737.07
72	199701	1997	1	HSSFL2	37391.8262	38329.139	38633.97964	49746.79859	51920.46692	48190.617	49737.07
73	199702	1997	2	HSSFL3	33545.94544	37391.826	38329.13939	50996.00547	51920.46692	48190.617	49737.07
74	199703	1997	3	HSSFL4	43333.95026	33545.945	37391.8262	45977.87499	51920.46692	48190.617	49737.07
75	199704	1997	4	HSSFL3	38919.23002	43333.95	33545.94544	54672.68773	51920.46692	48190.617	49737.07
76	199801	1998	1	HSSFL2	38503.45071	38919.23	43333.95026	51242.2625	51920.46692	48190.617	49737.07
77	199802	1998	2	HSSFL3	44298.14993	38503.451	38919.23002	54194.25036	51920.46692	48190.617	49737.07
78	199803	1998	3	HSSFL4	44195.86365	44298.15	38503.45071	57725.65413	51920.46692	48190.617	49737.07
79	199804	1998	4	HSSFL3	43575.24988	44195.864	44298.14993	54089.05382	51920.46692	48190.617	49737.07
80	199901	1999	1	HSSFL2	47326.62852	43575.25	44195.86365	59850.67927	51920.46692	48190.617	49737.07
81	199902	1999	2	HSSFL3	43504.09521	47326.629	43575.24988	56470.46325	51920.46692	48190.617	49737.07
82	199903	1999	3	HSSFL4	47206.1354	43504.095	47326.62852	63134.67956	51920.46692	48190.617	49737.07
83	199904	1999	4	HSSFL3	47999.24649	47206.135	43504.09521	60798.601	51920.46692	48190.617	49737.07
84	200001	2000	1	HSSFL2	49165.18169	47999.246	47206.1354	66039.80531	51920.46692	48190.617	49737.07
85	200002	2000	2	HSSFL3	47007.23978	49165.182	47999.24649	54271.56482	51920.46692	48190.617	49737.07

86	200003	2000	3	QUARTER	48660.72957	47007.24	49165.18169	64121.75247	54271.56482	66039.80531	60798.6
87	200004	2000	4		37232.96638	48660.73	47007.23978	62448.85617	HSTOTL1	HSTOTL2	HSTOTL3
88	200101	2001	1		44817.17154	37232.966	48660.72957	69754.58881	64121.75247	54271.56482	66039.81
89	200102	2001	2		51901.68925	44817.172	37232.96638	69618.72717	62448.85617	64121.75247	54271.56
90	200103	2001	3		53249.06231	51901.689	44817.17154	63919.67893	69754.58881	62448.85617	64121.75
91	200104	2001	4		53544.00998	53249.062	51901.68925	66325.75818	69618.72717	69754.58881	62448.86
92	200201	2002	1		49637.27174	53544.01	53249.06231	74946.59925	63919.67893	69618.72717	69754.59
93	200202	2002	2		53131.00661	49637.272	53544.00998	69831.85149	66325.75818	63919.67893	69618.73
94	200203	2002	3		61032.27644	53131.007	49637.27174	75712.25549	74946.59925	66325.75818	63919.68
95	200204	2002	4		57453.57714	61032.276	53131.00661	88566.46184	69831.85149	74946.59925	66325.76
96	200301	2003	1		62596.47844	57453.577	61032.27644	92428.42808	75712.25549	69831.85149	74946.6
97	200302	2003	2		66613.28857	62596.478	57453.57714	99307.26886	88566.46184	75712.25549	69831.85
98	200303	2003	3		72660.54551	66613.289	62596.47844	81293.05068	92428.42808	88566.46184	75712.26
99	200304	2003	4		77011.8652	72660.546	66613.28857	100652.2129	99307.26886	92428.42808	88566.46
100	200401	2004	1		64647.59896	77011.865	72660.54551	103215.8214	81293.05068	99307.26886	92428.43
101	200402	2004	2		80965.41311	64647.599	77011.8652	103391.5294	100652.2129	81293.05068	99307.27
102	200403	2004	3		82059.1731	80965.413	64647.59896	105549.1109	103215.8214	100652.2129	81293.05
103	200404	2004	4		81261.51279	82059.173	80965.41311	102425.8299	103391.5294	103215.8214	100652.2
104	200501	2005	1		80419.30961	81261.513	82059.1731	107350.0094	105549.1109	103391.5294	103215.8
105	200502	2005	2		80636.16549	80419.31	81261.51279	105362.3047	102425.8299	105549.1109	103391.5
106	200503	2005	3		79790.26088	80636.165	80419.30961	116342.9343	102425.8299	102425.8299	105549.1
107	200504	2005	4		85813.81206	79790.261	80636.16549	97701.03724	107350.0094	107350.0094	102425.8
108	200601	2006	1		93603.61985	85813.812	79790.26088	109924.7964	116342.9343	105362.3047	107350
109	200602	2006	2		81917.16074	93603.62	85813.81206	98914.02334	97701.03724	116342.9343	105362.3
110	200603	2006	3		84891.37086	81917.161	93603.61985	81118.02306	109924.7964	97701.03724	116342.9
111	200604	2006	4		76961.03129	84891.371	81917.16074	75781.18502	98914.02334	109924.7964	97701.04
112	200701	2007	1		62493.49984	76961.031	84891.37086	70940.48313	81118.02306	98914.02334	109924.8
113	200702	2007	2		53017.00782	62493.5	76961.03129	66378.55065	75781.18502	81118.02306	98914.02
114	200703	2007	3		49090.64446	53017.008	62493.49984	53894.90945	70940.48313	75781.18502	81118.02
115	200704	2007	4		47171.20501	49090.644	53017.00782	43667.33116	66378.55065	70940.48313	75781.19
116	200801	2008	1		34659.35502	47171.205	49090.64446	41697.1012	53894.90945	66378.55065	70940.48
117	200802	2008	2		25966.84852	34659.355	47171.20501	39667.66109	53894.90945	53894.90945	66378.55
118	200803	2008	3		24097.91667	25966.849	34659.35502	26623.88618	41697.1012	43667.33116	53894.91
119	200804	2008	4		21915.88673	24097.917	25966.84852	24015.00576	39667.66109	41697.1012	43667.33
120	200901	2009	1		17584.21906	21915.887	24097.91667	20354.81486	26623.88618	39667.66109	41697.1
121	200902	2009	2		13975.82455	17584.219	21915.88673	22446.72508	24015.00576	26623.88618	39667.66
122	200903	2009	3		11113.2261	13975.825	17584.21906	20647.51511	20354.81486	24015.00576	26623.89
123	200904	2009	4		16181.89595	11113.226	13975.82455	18739.62822	22446.72508	20354.81486	24015.01
124	201001	2010	1		16634.26267	16181.896	11113.2261	22508.74047	20647.51511	22446.72508	20354.81
									18739.62822	20647.51511	22446.73

125	201002	2010	2	QUARTER	15636.69952	16634.263	16181.89595	18208.47249	22508.74047	18739.62822	20647.52
OBS	DTE	YEAR			HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
126	201003	2010	3		16947.90628	15636.7	16634.26267	24670.33956	18208.47249	22508.74047	18739.63
127	201004	2010	4		14033.07554	16947.906	15636.69952	22349.97099	24670.33956	18208.47249	22508.74
128	201101	2011	1		13696.62328	14033.076	16947.90628	19604.35646	22349.97099	24670.33956	18208.47
129	201102	2011	2		15847.43737	13696.623	14033.07554	29166.60265	19604.35646	22349.97099	24670.34
130	201103	2011	3		14952.668	15847.437	13696.62328	24446.26247	29166.60265	19604.35646	22349.97
131	201104	2011	4		12307.62464	14952.668	15847.43737	23587.07774	24446.26247	29166.60265	19604.36
132	201201	2012	1		11220.87581	12307.625	14952.668	24883.2963	23587.07774	24446.26247	29166.6
133	201202	2012	2		11832.17184	11220.876	12307.62464	31552.88559	24883.2963	23587.07774	24446.26
134	201203	2012	3		12361.1151	11832.172	11220.87581	28528.05211	31552.88559	24883.2963	23587.08
135	201204	2012	4		13035.16788	12361.115	11832.17184	31946.02367	28528.05211	31552.88559	24883.3
136	201301	2013	1		14904.89683	13035.168	12361.1151	38058.41103	31946.02367	28528.05211	31552.89
137	201302	2013	2		19073.21659	14904.897	13035.16788	34221.65769	38058.41103	31946.02367	28528.05
138	201303	2013	3		19547.93734	19073.217	14904.89683	37559.45355	34221.65769	38058.41103	31946.02
139	201304	2013	4		18271.83258	19547.937	19073.21659	43926.16251	37559.45355	34221.65769	38058.41
140	201401	2014	1		20403.39279	18271.833	19547.93734	43462.60459	43926.16251	37559.45355	34221.66
141	201402	2014	2		22383.63489	20403.393	18271.83258	48099.74848	43462.60459	43926.16251	37559.45
142	201403	2014	3		22372.62498	22383.635	20403.39279	51902.61533	48099.74848	43462.60459	43926.16
143	201404	2014	4		25858.72031	22372.625	22383.63489	57505.55654	51902.61533	48099.74848	43462.6
144	201501	2015	1		29712.68729	25858.72	22372.62498	62352.23184	57505.55654	51902.61533	48099.75
145	201502	2015	2		32840.14495	29712.687	25858.72031	68217.39594	62352.23184	57505.55654	51902.62
146	201503	2015	3		36340.94713	32840.145	29712.68729	74347.33183	68217.39594	62352.23184	57505.56
147	201504	2015	4		40550.4618	36340.947	32840.14495	79520.37744	74347.33183	68217.39594	62352.23
148	201601	2016	1		44965.58043	40550.462	36340.94713	82900.24087	79520.37744	74347.33183	68217.4
149	201602	2016	2		48200.02818	44965.58	40550.4618	85445.86566	82900.24087	79520.37744	74347.33
150	201603	2016	3		51330.30752	48200.028	44965.58043	87584.09648	85445.86566	82900.24087	79520.38
151	201604	2016	4		53881.53419	51330.308	48200.02818	88718.2503	87584.09648	85445.86566	82900.24
152	201701	2017	1		55896.52516	53881.534	51330.30752	90586.3388	88718.2503	87584.09648	85445.87
153	201702	2017	2		56846.14115	55896.525	53881.53419	90052.34458	90586.3388	88718.2503	87584.1
154	201703	2017	3		57830.04346	56846.141	55896.52516	89443.68406	90052.34458	90586.3388	88718.25
155	201704	2017	4		57508.9618	57830.043	56846.14115	89634.47946	89443.68406	90052.34458	90586.34
156	201801	2018	1		57085.5764	57508.962	57830.04346	90048.69809	89634.47946	89443.68406	90052.34
157	201802	2018	2		57028.56651	57085.576	57508.9618	89769.72002	90048.69809	89634.47946	89443.68
158	201803	2018	3		56771.92475	57028.567	57085.5764	90469.81402	89769.72002	90048.69809	89634.48
159	201804	2018	4		56508.10441	56771.925	57028.56651	91644.66174	90469.81402	89769.72002	90048.7
160	201901	2019	1		56538.64417	56508.104	56771.92475	92025.22613	90469.81402	90469.81402	89769.72
161	201902	2019	2		56393.2031	56538.644	56508.10441	91670.55699	92025.22613	91644.66174	90469.81
162	201903	2019	3		56369.53736	56393.203	56538.64417	91998.50542	91670.55699	92025.22613	91644.66
163	201904	2019	4		56011.1686	56369.537	56393.2031	92054.92874	91998.50542	91670.55699	92025.23

164	202001	2020	1	QUARTER	56063.74091	56011.169	56369.53736	91225.28122	92054.92874	91998.50542	91670.56
165	202002	2020	2		56083.65372	56063.741	56011.1686	90421.28074	HSTOTL1	HSTOTL2	HSTOTL3
166	202003	2020	3		55725.96712	56083.654	56063.74091	89919.2979	91225.28122	92054.92874	91998.51
167	202004	2020	4		55229.27893	55725.967	56083.65372	89204.89787	90421.28074	91225.28122	92054.93
168	202101	2021	1		54957.55431	55229.279	55725.96712	88032.66003	89919.2979	90421.28074	91225.28
169	202102	2021	2		54472.35255	54957.554	55229.27893	87236.62373	89204.89787	89919.2979	90421.28
170	202103	2021	3		53981.02823	54472.353	54957.55431	86855.02802	88032.66003	89204.89787	89919.3
171	202104	2021	4		53307.66235	53981.028	54472.35255	86207.4507	87236.62373	88032.66003	89204.9
172	202201	2022	1		52883.59174	53307.662	53981.02823	85877.53244	86855.02802	87236.62373	88032.66
173	202202	2022	2		52408.8878	52883.592	53307.66235	85445.33929	86207.4507	86855.02802	87236.62
174	202203	2022	3		52043.40046	52408.888	52883.59174	85329.30784	85877.53244	86207.4507	86855.03
175	202204	2022	4		51660.6168	52043.4	52408.8878	85104.80176	85445.33929	85877.53244	86207.45
176	202301	2023	1		51395.27234	51660.617	52043.40046	85318.53981	85329.30784	85445.33929	85877.53
177	202302	2023	2		51280.90455	51395.272	51660.6168	84984.57309	85104.80176	85329.30784	85445.34
178	202303	2023	3		51375.96186	51280.905	51395.27234	85054.13026	85318.53981	85104.80176	85329.31
179	202304	2023	4		51141.39451	51375.962	51280.90455	84789.5753	84984.57309	85318.53981	85104.8
180	202401	2024	1		50907.32862	51141.395	51375.96186	85212.29541	85054.13026	84984.57309	85318.54
181	202402	2024	2		50472.80129	50907.329	51141.39451	85730.82635	84789.5753	85054.13026	84984.57
182	202403	2024	3		50427.41783	50472.801	50907.32862	86114.95863	85212.29541	84789.5753	85054.13
183	202404	2024	4		50305.37268	50427.418	50472.80129	86784.95981	85730.82635	85212.29541	84789.58
184	202501	2025	1		50021.21006	50305.373	50427.41783	87697.64929	86114.95863	85730.82635	85212.3
185	202502	2025	2		50265.13291	50021.21	50305.37268	88141.17853	86784.95981	86114.95863	85730.83
186	202503	2025	3		50676.36134	50265.133	50021.21006	88590.12309	87697.64929	86784.95981	86114.96
187	202504	2025	4		50903.19373	50676.361	50265.13291	89012.39104	88141.17853	87697.64929	86784.96
188	202601	2026	1		50987.39411	50903.194	50676.36134	89533.55412	88590.12309	88141.17853	87697.65
189	202602	2026	2		51028.01945	50987.394	50903.19373	89425.76001	89012.39104	88590.12309	88141.18
190	202603	2026	3		50994.9299	51028.019	50987.39411	89403.1437	89533.55412	89012.39104	88590.12
191	202604	2026	4		50739.0818	50994.93	51028.01945	88955.33399	89425.76001	89533.55412	89012.39
192	202701	2027	1		50560.71944	50739.082	50994.9299	89218.83948	89403.1437	89425.76001	89533.55
193	202702	2027	2		50154.55894	50560.719	50739.0818	88891.88158	88955.33399	89403.1437	89425.76
194	202703	2027	3		50318.61399	50154.559	50560.71944	88206.76037	88955.33399	88955.33399	89403.14
195	202704	2027	4		50045.29949	50318.614	50154.55894	87241.01498	89218.83948	89218.83948	88955.33
196	202801	2028	1		49489.05913	50045.299	50318.61399	87377.1882	88891.88158	88891.88158	89218.84
197	202802	2028	2		48899.77431	49489.059	50045.29949	87320.92328	88206.76037	88206.76037	88891.88
198	202803	2028	3		48454.2958	48899.774	49489.05913	87121.95955	87241.01498	87241.01498	88206.76
199	202804	2028	4		48031.41157	48454.296	48899.77431	86764.6685	87377.1882	87241.01498	88206.76
200	202901	2029	1		47578.79069	48031.412	48454.2958	87377.54117	87320.92328	87377.1882	87377.19
201	202902	2029	2		47203.63119	47578.791	48031.41157	87618.53244	87121.95955	87320.92328	87377.19
202	202903	2029	3		47371.14944	47203.631	47578.79069	87687.9226	86764.6685	87121.95955	87320.92
									87377.54117	86764.6685	87121.96
									87618.53244	87377.54117	86764.67

203	202904	2029	4	47466.19077	47371.149	47203.63119	87647.35833	87687.9226	87618.53244	87377.54
OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
204	203001	2030	1	47528.33869	47466.191	47371.14944	88291.93385	87647.35833	87687.9226	87618.53
205	203002	2030	2	47580.43072	47528.339	47466.19077	88388.67723	88291.93385	87647.35833	87687.92
206	203003	2030	3	47499.38405	47580.431	47528.33869	88520.81908	88388.67723	88291.93385	87647.36
207	203004	2030	4	47399.9578	47499.384	47580.43072	88641.45009	88520.81908	88388.67723	88291.93
208	203101	2031	1	47639.92527	47399.958	47499.38405	88972.05766	88641.45009	88520.81908	88388.68
209	203102	2031	2	47718.65421	47639.925	47399.9578	87738.92196	88972.05766	88641.45009	88520.82
210	203103	2031	3	47661.83191	47718.654	47639.92527	87035.19596	87738.92196	88972.05766	88641.45
211	203104	2031	4	46880.62142	47661.832	47718.65421	86747.39228	87035.19596	88972.05766	88972.06
212	203201	2032	1	46327.72724	46880.621	47661.83191	86862.41055	86747.39228	87035.19596	87738.92
213	203202	2032	2	45968.8905	46327.727	46880.62142	85658.11607	86862.41055	86747.39228	87035.2
214	203203	2032	3	45689.43741	45968.891	46327.72724	84933.59396	85658.11607	86747.39228	87035.2
215	203204	2032	4	44987.26343	45689.437	45968.8905	84880.37056	84933.59396	86862.41055	86747.39
216	203301	2033	1	44459.15804	44987.263	45689.43741	85547.50146	84880.37056	86862.41055	86747.39
217	203302	2033	2	44355.83323	44459.158	44987.26343	85226.77004	84880.37056	86862.41055	86747.39
218	203303	2033	3	44602.23165	44355.833	44459.15804	85141.56549	85547.50146	86862.41055	86747.39
219	203304	2033	4	44638.78063	44602.232	44355.83323	85457.14027	85547.50146	86862.41055	86747.39
220	203401	2034	1	44702.08498	44638.781	44602.23165	86171.06131	85457.14027	86862.41055	86747.39
221	203402	2034	2	44938.58947	44702.085	44638.78063	85559.4233	86171.06131	86862.41055	86747.39
222	203403	2034	3	45192.18789	44938.589	44702.08498	85749.60401	86171.06131	86862.41055	86747.39
223	203404	2034	4	45025.25372	45192.188	44938.58947	86069.20393	85559.4233	86862.41055	86747.39
224	203501	2035	1	44982.59684	45025.254	45192.18789	86875.52273	85749.60401	86862.41055	86747.39
225	203502	2035	2	45311.01616	44982.597	45025.25372	86569.01293	86069.20393	86862.41055	86747.39
226	203503	2035	3	45760.13902	45311.016	44982.59684	86801.10998	86569.01293	86862.41055	86747.39
227	203504	2035	4	45901.71257	45760.139	45311.01616	86920.02266	86801.10998	86862.41055	86747.39
228	203601	2036	1	45997.27254	45901.713	45760.13902	87320.69336	86920.02266	86862.41055	86747.39
229	203602	2036	2	46162.47834	45997.273	45901.71257	86575.03019	87320.69336	86862.41055	86747.39
230	203603	2036	3	46174.93893	46162.478	45997.27254	86532.41181	86575.03019	86862.41055	86747.39
231	203604	2036	4	45864.00793	46174.939	46162.47834	86541.11495	86532.41181	86862.41055	86747.39
232	203701	2037	1	45613.88708	45864.008	46174.93893	87047.64156	86541.11495	86862.41055	86747.39
233	203702	2037	2	45623.99982	45613.887	45864.00793	86995.15948	87047.64156	86862.41055	86747.39
234	203703	2037	3	45830.48526	45624	45613.88708	87271.79894	86995.15948	86862.41055	86747.39
235	203704	2037	4	45926.58296	45830.485	45623.99982	87352.62026	87271.79894	86862.41055	86747.39
236	203801	2038	1	46106.93194	45926.583	45830.48526	87780.0191	87352.62026	86862.41055	86747.39
237	203802	2038	2	46311.14282	46106.932	45926.58296	87588.22632	87352.62026	86862.41055	86747.39
238	203803	2038	3	46581.56514	46311.143	46106.93194	87451.71021	87588.22632	86862.41055	86747.39
239	203804	2038	4	46526.20489	46581.565	46311.14282	87287.17909	87451.71021	86862.41055	86747.39
240	203901	2039	1	46412.05275	46526.205	46581.56514	87513.13561	87287.17909	86862.41055	86747.39
241	203902	2039	2	46359.09843	46412.053	46526.20489	87105.76635	87513.13561	86862.41055	86747.39

242	203903	2039	3	46415.2983	46359.098	46412.05275	86923.48551	87105.76635	87513.13561	87287.18
OBS	DTE	YEAR	QUARTER	HSSFL2	HSSFL3	HSSFL4	HSTOT	HSTOTL1	HSTOTL2	HSTOTL3
243	203904	2039	4	46138.49262	46415.298	46359.09843	86858.02616	86923.48551	87105.76635	87513.14
244	204001	2040	1	45966.5962	46138.493	46415.2983	87525.01494	86858.02616	86923.48551	87105.77
245	204002	2040	2	46087.03909	45966.596	46138.49262	87670.76512	87525.01494	86858.02616	86923.49
246	204003	2040	3	46405.35574	46087.039	45966.5962	87127.46072	87670.76512	87525.01494	86858.03
247	204004	2040	4	46566.24978	46405.356	46087.03909	88208.97288	87127.46072	87670.76512	87525.01
248	204101	2041	1	46696.86433	46566.25	46405.35574	88644.23112	88208.97288	87127.46072	87670.77
249	204102	2041	2	46890.22753	46696.864	46566.24978	88695.04282	88644.23112	88208.97288	87127.46
250	204103	2041	3	47100.47399	46890.228	46696.86433	88755.45996	88695.04282	88644.23112	88208.97
251	204104	2041	4	47053.86468	47100.474	46890.22753	88799.65931	88755.45996	88695.04282	88644.23

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
1	197902	1979	2		0	1	0	0	2	4116.395
2	197903	1979	3		0	0	1	0	3	4119.434
3	197904	1979	4		0	0	0	1	4	4269.125
4	198001	1980	1		1	0	0	0	5	4215.991
5	198002	1980	2	113326.2667	0	1	0	0	6	4268.271
6	198003	1980	3	106371.2003	0	0	1	0	7	4217.146
7	198004	1980	4	98659.24513	0	0	0	1	8	4363.942
8	198101	1981	1	79435.86732	1	0	0	0	9	4324.634
9	198102	1981	2	57777.92641	0	1	0	0	10	4366.732
10	198103	1981	3	69064.86389	0	0	1	0	11	4301.742
11	198104	1981	4	77693.17387	0	0	0	1	12	4392.519
12	198201	1982	1	64524.39663	1	0	0	0	13	4307.767
13	198202	1982	2	66142.00608	0	1	0	0	14	4324.594
14	198203	1982	3	41860.4411	0	0	1	0	15	4249.503
15	198204	1982	4	38100.82161	0	0	0	1	16	4348.378
16	198301	1983	1	33654.27635	1	0	0	0	17	4313.63
17	198302	1983	2	37238.55243	0	1	0	0	18	4366.634
18	198303	1983	3	40007.34935	0	0	1	0	19	4306.913
19	198304	1983	4	45576.22398	0	0	0	1	20	4454.421
20	198401	1984	1	65336.1753	1	0	0	0	21	4442.309
21	198402	1984	2	83919.65811	0	1	0	0	22	4522.879
22	198403	1984	3	91985.50638	0	0	1	0	23	4558.33
23	198404	1984	4	99686.25105	0	0	0	1	24	4713.778
24	198501	1985	1	133630.5523	1	0	0	0	25	4703.749
25	198502	1985	2	113475.3711	0	1	0	0	26	4792.799

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
26	198503	1985	3	106085.8851	0	0	1	0	27	4797.379
27	198504	1985	4	110022.9945	0	0	0	1	28	4951.894
28	198601	1986	1	136819.9697	1	0	0	0	29	4909.33
29	198602	1986	2	128659.8637	0	1	0	0	30	4990.137
30	198603	1986	3	132906.04	0	0	1	0	31	4988.864
31	198604	1986	4	152780.6011	0	0	0	1	32	5170.768
32	198701	1987	1	160778.0352	1	0	0	0	33	5114.656
33	198702	1987	2	166989.4131	0	1	0	0	34	5227.473
34	198703	1987	3	148558.6223	0	0	1	0	35	5176.53
35	198704	1987	4	188612.7458	0	0	0	1	36	5371.563
36	198801	1988	1	182077.4348	1	0	0	0	37	5349.252
37	198802	1988	2	143170.9957	0	1	0	0	38	5450.652
38	198803	1988	3	142016.8496	0	0	1	0	39	5434.662
39	198804	1988	4	130554.5774	0	0	0	1	40	5615.113
40	198901	1989	1	145271.8931	1	0	0	0	41	5562.782
41	198902	1989	2	133118.1668	0	1	0	0	42	5631.339
42	198903	1989	3	139041.9898	0	0	1	0	43	5580.227
43	198904	1989	4	152392.5672	0	0	0	1	44	5782.407
44	199001	1990	1	139163.213	1	0	0	0	45	5727.485
45	199002	1990	2	135812.3208	0	1	0	0	46	5772.517
46	199003	1990	3	127900.7812	0	0	1	0	47	5718.49
47	199004	1990	4	129173.2991	0	0	0	1	48	5800.827
48	199101	1991	1	125439.9466	1	0	0	0	49	5666.644
49	199102	1991	2	91702.62897	0	1	0	0	50	5685.108
50	199103	1991	3	81189.98676	0	0	1	0	51	5628.58
51	199104	1991	4	60521.10435	0	0	0	1	52	5691.006
52	199201	1992	1	46400.62811	1	0	0	0	53	5523.657
53	199202	1992	2	59269.19691	0	1	0	0	54	5559.378
54	199203	1992	3	57010.95573	0	0	1	0	55	5504.859
55	199204	1992	4	56137.89632	0	0	0	1	56	5582.292
56	199301	1993	1	54059.50865	1	0	0	0	57	5480.331
57	199302	1993	2	53135.67107	0	1	0	0	58	5503.343
58	199303	1993	3	49813.79689	0	0	1	0	59	5477.813
59	199304	1993	4	51095.18886	0	0	0	1	60	5544.735
60	199401	1994	1	45495.5885	1	0	0	0	61	5493.064
61	199402	1994	2	48095.16782	0	1	0	0	62	5555.351
62	199403	1994	3	40121.53983	0	0	1	0	63	5547.6
63	199404	1994	4	40883.44975	0	0	0	1	64	5652.884
64	199501	1995	1	49737.06764	1	0	0	0	65	5605.532

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
65	199502	1995	2	48190.617	0	1	0	0	66	5675.712
66	199503	1995	3	51920.46692	0	0	1	0	67	EMPCOM
67	199504	1995	4	49100.08635	0	0	0	0	68	5650.704
68	199601	1996	1	43622.64438	1	0	0	0	69	5752.937
69	199602	1996	2	40152.55747	0	1	0	0	70	5682.241
70	199603	1996	3	43277.03935	0	0	1	0	71	5760.603
71	199604	1996	4	42242.9968	0	0	0	1	72	5733.921
72	199701	1997	1	48097.72489	1	0	0	0	73	5851.557
73	199702	1997	2	47865.00325	0	0	0	0	74	5818.225
74	199703	1997	3	42859.11847	0	1	0	0	75	5924.755
75	199704	1997	4	41589.13764	0	0	1	0	76	5900.83
76	199801	1998	1	49746.79859	1	0	0	1	77	6030.964
77	199802	1998	2	50996.00547	0	0	0	0	78	5996.639
78	199803	1998	3	45977.87499	0	1	0	0	79	6101.594
79	199804	1998	4	54672.68773	0	0	1	0	80	6105.16
80	199901	1999	1	51242.2625	1	0	0	1	81	6248.901
81	199902	1999	2	54194.25036	0	0	0	0	82	6197.487
82	199903	1999	3	57725.65413	0	1	0	0	83	6311.068
83	199904	1999	4	54089.05382	0	0	1	0	84	6322.853
84	200001	2000	1	59850.67927	1	0	0	1	85	6476.206
85	200002	2000	2	56470.46325	0	1	0	0	86	6420.347
86	200003	2000	3	63134.67956	0	0	1	0	87	6532.125
87	200004	2000	4	60798.601	0	0	0	0	88	6510.205
88	200101	2001	1	66039.80531	1	0	0	1	89	6646.319
89	200102	2001	2	54271.56482	0	0	0	0	90	6628.381
90	200103	2001	3	64121.75247	0	1	0	0	91	6686.351
91	200104	2001	4	62448.85617	0	0	1	0	92	6624.541
92	200201	2002	1	69754.58881	1	0	0	1	93	6727.294
93	200202	2002	2	69618.72717	0	0	0	0	94	6653.835
94	200203	2002	3	63919.67893	0	1	0	0	95	6747.694
95	200204	2002	4	66325.75818	0	0	1	0	96	6692.541
96	200301	2003	1	74946.59925	1	0	0	1	97	6825.718
97	200302	2003	2	69831.85149	0	0	0	0	98	6732.657
98	200303	2003	3	75712.25549	0	1	0	0	99	6801.336
99	200304	2003	4	88566.46184	0	0	1	0	100	6753.322
100	200401	2004	1	92428.42808	1	0	0	1	101	6888.657
101	200402	2004	2	99307.26886	0	0	0	0	102	6831.744
102	200403	2004	3	81293.05068	0	1	0	0	103	6930.925
103	200404	2004	4	100652.2129	0	0	1	0	104	6888.619
										7042.854

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
104	200501	2005	1	103215.8214	1	0	0	0	105	6978.604
105	200502	2005	2	103391.5294	0	1	0	0	106	7090.004
106	200503	2005	3	105549.1109	0	0	1	0	107	7068.267
107	200504	2005	4	102425.8299	0	0	0	1	108	7234.034
108	200601	2006	1	107350.0094	1	0	0	0	109	7192.718
109	200602	2006	2	105362.3047	0	1	0	0	110	7286.355
110	200603	2006	3	116342.9343	0	0	1	0	111	7246.789
111	200604	2006	4	97701.03724	0	0	0	1	112	7373.029
112	200701	2007	1	109924.7964	1	0	0	0	113	7296.096
113	200702	2007	2	98914.02334	0	1	0	0	114	7351.445
114	200703	2007	3	81118.02306	0	0	1	0	115	7298.784
115	200704	2007	4	75781.18502	0	0	0	1	116	7408.939
116	200801	2008	1	70940.48313	1	0	0	0	117	7270.003
117	200802	2008	2	66378.55065	0	1	0	0	118	7305.217
118	200803	2008	3	53894.90945	0	0	1	0	119	7168.83
119	200804	2008	4	43667.33116	0	0	0	1	120	7188.948
120	200901	2009	1	41697.1012	1	0	0	0	121	6937.619
121	200902	2009	2	39667.66109	0	1	0	0	122	6872.934
122	200903	2009	3	26623.88618	0	0	1	0	123	6684.042
123	200904	2009	4	24015.00576	0	0	0	1	124	6790.723
124	201001	2010	1	20354.81486	1	0	0	0	125	6682.965
125	201002	2010	2	22446.72508	0	1	0	0	126	6787.902
126	201003	2010	3	20647.51511	0	0	1	0	127	6673.683
127	201004	2010	4	18739.62822	0	0	0	1	128	6829.616
128	201101	2011	1	22508.74047	1	0	0	0	129	6754.854
129	201102	2011	2	18208.47249	0	1	0	0	130	6808.929
130	201103	2011	3	24670.33956	0	0	1	0	131	6751.29
131	201104	2011	4	22349.97099	0	0	0	1	132	6898.289
132	201201	2012	1	19604.35646	1	0	0	0	133	6847.371
133	201202	2012	2	29166.60265	0	1	0	0	134	6951.069
134	201203	2012	3	24446.26247	0	0	1	0	135	6905.253
135	201204	2012	4	23587.07774	0	0	0	1	136	7071.706
136	201301	2013	1	24883.2963	1	0	0	0	137	7015.528
137	201302	2013	2	31552.88559	0	1	0	0	138	7072.25
138	201303	2013	3	28528.05211	0	0	1	0	139	7019.569
139	201304	2013	4	31946.02367	0	0	0	1	140	7192.88
140	201401	2014	1	38058.41103	1	0	0	0	141	7103.929
141	201402	2014	2	34221.65769	0	1	0	0	142	7177.7
142	201403	2014	3	37559.45355	0	0	1	0	143	7143.338

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
143	201404	2014	4	43926.16251	0	0	0	1	144	7311.328
144	201501	2015	1	43462.60459	1	0	0	0	145	7235.667
145	201502	2015	2	48099.74848	0	1	0	0	146	7329.924
146	201503	2015	3	51902.61533	0	0	1	0	147	7309.812
147	201504	2015	4	57505.55654	0	0	0	1	148	7481.669
148	201601	2016	1	62352.23184	1	0	0	0	149	7402.021
149	201602	2016	2	68217.39594	0	1	0	0	150	7500.153
150	201603	2016	3	74347.33183	0	0	1	0	151	7479.22
151	201604	2016	4	79520.37744	0	0	0	1	152	7649.519
152	201701	2017	1	82900.24087	1	0	0	0	153	7563.63
153	201702	2017	2	85445.86566	0	1	0	0	154	7652.836
154	201703	2017	3	87584.09648	0	0	1	0	155	7617.423
155	201704	2017	4	88718.2503	0	0	0	1	156	7774.228
156	201801	2018	1	90586.3388	1	0	0	0	157	7673.45
157	201802	2018	2	90052.34458	0	1	0	0	158	7751.426
158	201803	2018	3	89443.68406	0	0	1	0	159	7704.958
159	201804	2018	4	89634.47946	0	0	0	1	160	7851.76
160	201901	2019	1	90048.69809	1	0	0	0	161	7744.505
161	201902	2019	2	89769.72002	0	1	0	0	162	7820.241
162	201903	2019	3	90469.81402	0	0	1	0	163	7770.654
163	201904	2019	4	91644.66174	0	0	0	1	164	7915.292
164	202001	2020	1	92025.22613	1	0	0	0	165	7805.725
165	202002	2020	2	91670.55699	0	1	0	0	166	7895.369
166	202003	2020	3	91998.50542	0	0	1	0	167	7828.527
167	202004	2020	4	92054.92874	0	0	0	1	168	7964.391
168	202101	2021	1	91225.28122	1	0	0	0	169	7849.501
169	202102	2021	2	90421.28074	0	1	0	0	170	7919.054
170	202103	2021	3	89919.2979	0	0	1	0	171	7861.652
171	202104	2021	4	89204.89787	0	0	0	1	172	8007.145
172	202201	2022	1	88032.66003	1	0	0	0	173	7896.256
173	202202	2022	2	87236.62373	0	1	0	0	174	7968.204
174	202203	2022	3	86855.02802	0	0	1	0	175	7910.241
175	202204	2022	4	86207.4507	0	0	0	1	176	8057.939
176	202301	2023	1	85877.53244	1	0	0	0	177	7947.171
177	202302	2023	2	85445.33929	0	1	0	0	178	8018.784
178	202303	2023	3	85329.30784	0	0	1	0	179	7962.102
179	202304	2023	4	85104.80176	0	0	0	1	180	8112.632
180	202401	2024	1	85318.53981	1	0	0	0	181	8002.918
181	202402	2024	2	84984.57309	0	1	0	0	182	8076.204

OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
182	202403	2024	3	85054.13026	0	0	1	0	183	8018.839
183	202404	2024	4	84789.5753	0	0	0	1	184	EMPCOM
184	202501	2025	1	85212.29541	1	0	0	0	185	8171.955
185	202502	2025	2	85730.82635	0	1	0	0	186	8062.025
186	202503	2025	3	86114.95863	0	0	1	0	187	8138.152
187	202504	2025	4	86784.95981	0	0	0	1	188	8082.292
188	202601	2026	1	87697.64929	1	0	0	0	189	8238.023
189	202602	2026	2	88141.17853	0	1	0	0	190	8127.529
190	202603	2026	3	88590.12309	0	0	1	0	191	8204.715
191	202604	2026	4	89012.39104	0	0	0	1	192	8149.47
192	202701	2027	1	89533.55412	1	0	0	0	193	8307.158
193	202702	2027	2	89425.76001	0	1	0	0	194	8197.841
194	202703	2027	3	89403.1437	0	0	1	0	195	8276.694
195	202704	2027	4	88955.33399	0	0	0	1	196	8221.153
196	202801	2028	1	89218.83948	1	0	0	0	197	8379.779
197	202802	2028	2	88891.88158	0	1	0	0	198	8268.455
198	202803	2028	3	88206.76037	0	0	1	0	199	8348.67
199	202804	2028	4	87241.01498	0	0	0	1	200	8292.403
200	202901	2029	1	87377.1882	1	0	0	0	201	8452.074
201	202902	2029	2	87320.92328	0	1	0	0	202	8339.751
202	202903	2029	3	87121.95955	0	0	1	0	203	8419.854
203	202904	2029	4	86764.6685	0	0	0	1	204	8362.054
204	203001	2030	1	87377.54117	1	0	0	0	205	8524.192
205	203002	2030	2	87618.53244	0	1	0	0	206	8412.13
206	203003	2030	3	87687.9226	0	0	1	0	207	8506.634
207	203004	2030	4	87647.35833	0	0	0	1	208	8440.39
208	203101	2031	1	88291.93385	1	0	0	0	209	8594.891
209	203102	2031	2	88388.67723	0	1	0	0	210	8477.334
210	203103	2031	3	88520.81908	0	0	1	0	211	8556.108
211	203104	2031	4	88641.45009	0	0	0	1	212	8497.683
212	203201	2032	1	88972.05766	1	0	0	0	213	8657.236
213	203202	2032	2	87738.92196	0	1	0	0	214	8538.342
214	203203	2032	3	87035.19596	0	0	1	0	215	8616.487
215	203204	2032	4	86747.39228	0	0	0	1	216	8557.446
216	203301	2033	1	86862.41055	1	0	0	0	217	8718.238
217	203302	2033	2	85658.11607	0	1	0	0	218	8598.441
218	203303	2033	3	84933.59396	0	0	1	0	219	8677.552
219	203304	2033	4	84880.37056	0	0	0	1	220	8619.537
220	203401	2034	1	85547.50146	1	0	0	0	221	8782.076
221									222	8662.414

221	203402	2034	2	85226.77004	0	1	0	0	0	8742.735
OBS	DTE	YEAR	QUARTER	HSTOTL4	SEA1	SEA2	SEA3	SEA4	Time	EMPCOM
222	203403	2034	3	85141.56549	0	0	1	0	223	8684.847
223	203404	2034	4	85457.14027	0	0	0	1	224	8848.12
224	203501	2035	1	86171.06131	1	0	0	0	225	8727.056
225	203502	2035	2	85559.4233	0	1	0	0	226	8808.297
226	203503	2035	3	85749.60401	0	0	1	0	227	8750.225
227	203504	2035	4	86069.20393	0	0	0	1	228	8915.24
228	203601	2036	1	86875.52273	1	0	0	0	229	8793.837
229	203602	2036	2	86569.01293	0	1	0	0	230	8877.152
230	203603	2036	3	86801.10998	0	0	1	0	231	8820.949
231	203604	2036	4	86920.02266	0	0	0	1	232	8987.948
232	203701	2037	1	87320.69336	1	0	0	0	233	8865.256
233	203702	2037	2	86575.03019	0	1	0	0	234	8949.483
234	203703	2037	3	86532.41181	0	0	1	0	235	8893.633
235	203704	2037	4	86541.11495	0	0	0	1	236	9061.737
236	203801	2038	1	87047.64156	1	0	0	0	237	8936.608
237	203802	2038	2	86995.15948	0	1	0	0	238	9021.226
238	203803	2038	3	87271.79894	0	0	1	0	239	8965.344
239	203804	2038	4	87352.62026	0	0	0	1	240	9133.9
240	203901	2039	1	87780.0191	1	0	0	0	241	9008.357
241	203902	2039	2	87588.22632	0	1	0	0	242	9093.664
242	203903	2039	3	87451.71021	0	0	1	0	243	9035.456
243	203904	2039	4	87287.17909	0	0	0	1	244	9206.953
244	204001	2040	1	87513.13561	1	0	0	0	245	9080.573
245	204002	2040	2	87105.76635	0	1	0	0	246	9180.537
246	204003	2040	3	86923.48551	0	0	1	0	247	9116.019
247	204004	2040	4	86858.02616	0	0	0	1	248	9283.651
248	204101	2041	1	87525.01494	1	0	0	0	249	9155.071
249	204102	2041	2	87670.76512	0	1	0	0	250	9241.642
250	204103	2041	3	87127.46072	0	0	1	0	251	9185.235
251	204104	2041	4	88208.97288	0	0	0	1	252	9359.057

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
1	197902	1979	2	1265.1996	29,173	12.1212	.	10.2811	7.10808
2	197903	1979	3	1273.6012	28,995	12.1262	8.32426	10.275	7.11208

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCNONIND	LNOEMIND
3	197904	1979	4	1283.0665	29,321	12.1342	8.32502	10.2862	7.11526
4	198001	1980	1	1256.5792	29,945	12.1439	8.36061	10.3073	7.09531
5	198002	1980	2	1255.6581	30,014	12.151	8.34787	10.3096	7.09049
6	198003	1980	3	1241.8223	29,643	12.154	8.36035	10.2971	7.07623
7	198004	1980	4	1259.5617	29,947	12.1583	8.34816	10.3072	7.08791
8	198101	1981	1	1243.6446	30,504	12.164	8.38229	10.3256	7.07876
9	198102	1981	2	1274.3618	30,256	12.1696	8.37314	10.3174	7.10036
10	198103	1981	3	1279.9714	29,902	12.1712	8.38304	10.3057	7.10242
11	198104	1981	4	1265.6209	30,033	12.1713	8.36793	10.3101	7.08958
12	198201	1982	1	1215.0474	30,466	12.1814	8.38877	10.3244	7.05393
13	198202	1982	2	1210.546	30,302	12.1864	8.3692	10.319	7.04943
14	198203	1982	3	1195.7993	29,749	12.1868	8.37323	10.3007	7.03931
15	198204	1982	4	1175.8957	29,863	12.1891	8.35561	10.3045	7.02108
16	198301	1983	1	1169.3971	30,084	12.1948	8.37855	10.3119	7.01616
17	198302	1983	2	1198.5917	29,607	12.1989	8.37036	10.2959	7.03852
18	198303	1983	3	1213.3708	29,053	12.2009	8.38275	10.2769	7.04804
19	198304	1983	4	1224.871	29,199	12.2021	8.36876	10.2819	7.05324
20	198401	1984	1	1219.2247	29,619	12.2039	8.40252	10.2962	7.05307
21	198402	1984	2	1237.7853	29,356	12.2043	8.39949	10.2873	7.06484
22	198403	1984	3	1245.9485	28,795	12.2108	8.41748	10.268	7.07268
23	198404	1984	4	1255.7307	29,037	12.224	8.42512	10.2764	7.07809
24	198501	1985	1	1234.0644	29,678	12.2362	8.45848	10.2982	7.06193
25	198502	1985	2	1255.0262	29,218	12.2413	8.45619	10.2825	7.07775
26	198503	1985	3	1266.6146	28,543	12.2485	8.47506	10.2593	7.08707
27	198504	1985	4	1275.4214	28,822	12.2451	8.47587	10.269	7.09232
28	198601	1986	1	1261.3688	29,332	12.2448	8.50757	10.2866	7.08506
29	198602	1986	2	1274.4737	28,649	12.2487	8.49889	10.2632	7.09854
30	198603	1986	3	1282.5394	27,912	12.2484	8.51533	10.2372	7.10726
31	198604	1986	4	1292.788	27,823	12.246	8.51503	10.234	7.1142
32	198701	1987	1	1273.4309	28,347	12.2515	8.5508	10.2527	7.10242
33	198702	1987	2	1290.5846	27,850	12.2555	8.53987	10.2351	7.11347
34	198703	1987	3	1299.7469	27,136	12.2551	8.56175	10.2091	7.11972
35	198704	1987	4	1317.1461	27,028	12.2516	8.55179	10.205	7.1325
36	198801	1988	1	1313.8706	28,016	12.2602	8.58873	10.2409	7.13178
37	198802	1988	2	1331.3121	27,463	12.2638	8.58448	10.2211	7.14204
38	198803	1988	3	1329.4281	26,836	12.2631	8.60332	10.1981	7.14006
39	198804	1988	4	1341.8426	26,831	12.2608	8.60025	10.1978	7.14842
40	198901	1989	1	1322.4231	27,845	12.2692	8.63293	10.2347	7.13855
41	198902	1989	2	1332.3906	27,450	12.2741	8.6235	10.2206	7.14606

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
42	198903	1989	3	1323.3799	26,723	12.2731	8.63588	10.2068	7.13823
43	198904	1989	4	1327.0474	26,736	12.2692	8.62659	10.2239	7.13918
44	199001	1990	1	1298.1846	27,459	12.2702	8.6623	10.2613	7.11947
45	199002	1990	2	1300.4107	27,049	12.2687	8.653	10.2731	7.12166
46	199003	1990	3	1285.039	26,424	12.265	8.66095	10.2752	7.11029
47	199004	1990	4	1265.5981	26,289	12.2614	8.65146	10.2775	7.09598
48	199101	1991	1	1219.3528	26,806	12.268	8.66585	10.2874	7.06193
49	199102	1991	2	1213.3884	26,244	12.2666	8.64257	10.2862	7.05738
50	199103	1991	3	1195.5012	25,597	12.2645	8.64571	10.278	7.04586
51	199104	1991	4	1181.6977	25,475	12.2635	8.63574	10.2694	7.03351
52	199201	1992	1	1136.1564	25,572	12.2683	8.64661	10.2617	7.00097
53	199202	1992	2	1130.6915	24,935	12.2668	8.61693	10.2584	6.99696
54	199203	1992	3	1115.2958	24,407	12.2604	8.62325	10.2503	6.9861
55	199204	1992	4	1089.1833	24,258	12.2546	8.61328	10.2382	6.96404
56	199301	1993	1	1062.5582	24,799	12.2642	8.62728	10.2394	6.93945
57	199302	1993	2	1054.6413	24,168	12.2645	8.60886	10.2328	6.93391
58	199303	1993	3	1038.5784	23,757	12.2629	8.61305	10.2333	6.9255
59	199304	1993	4	1026.9173	23,765	12.2637	8.60857	10.2345	6.91513
60	199401	1994	1	1012.3046	24,061	12.2734	8.6208	10.2366	6.89791
61	199402	1994	2	1025.1076	23,663	12.2778	8.6113	10.2406	6.91085
62	199403	1994	3	1025.9207	23,364	12.2786	8.62263	10.2436	6.91523
63	199404	1994	4	1024.6659	23,379	12.2824	8.62128	10.2447	6.91642
64	199501	1995	1	1021.6011	23,741	12.2907	8.64003	10.2485	6.90935
65	199502	1995	2	1029.7542	23,440	12.2915	8.6315	10.2523	6.91771
66	199503	1995	3	1034.3624	23,066	12.2913	8.64395	10.25	6.92176
67	199504	1995	4	1031.2962	22,923	12.2923	8.63953	10.2473	6.91899
68	199601	1996	1	1035.6926	23,175	12.2952	8.65746	10.2449	6.92353
69	199602	1996	2	1051.5638	22,956	12.295	8.64509	10.2463	6.93945
70	199603	1996	3	1055.4124	22,686	12.2961	8.6588	10.2491	6.94322
71	199604	1996	4	1060.7759	22,776	12.2988	8.65415	10.2501	6.94851
72	199701	1997	1	1059.2085	23,014	12.3036	8.67447	10.2544	6.94707
73	199702	1997	2	1078.5455	22,608	12.3053	8.66875	10.2561	6.96555
74	199703	1997	3	1089.77	22,353	12.3065	8.6869	10.2583	6.97597
75	199704	1997	4	1087.1027	22,358	12.3069	8.68284	10.2517	6.97401
76	199801	1998	1	1092.3943	22,975	12.3137	8.70467	10.2696	6.97924
77	199802	1998	2	1105.7723	22,803	12.3154	8.69895	10.2729	6.99228
78	199803	1998	3	1101.5732	22,581	12.3174	8.71631	10.274	6.9886
79	199804	1998	4	1094.4656	22,653	12.3195	8.7169	10.2749	6.98277
80	199901	1999	1	1078.1798	22,866	12.3246	8.74016	10.2729	6.96829

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LNOEMIND
81	199902	1999	2	1089.3991	22,599	12.3274	8.7319	10.2692	6.97887
82	199903	1999	3	1086.3799	22,339	12.3296	8.75007	10.2693	6.97597
83	199904	1999	4	1084.294	22,289	12.3325	8.75193	10.2675	6.97439
84	200001	2000	1	1081.9195	22,394	12.3367	8.77589	10.2662	6.96829
85	200002	2000	2	1091.0416	22,115	12.338	8.76784	10.2655	6.97625
86	200003	2000	3	1094.1283	21,844	12.3384	8.78522	10.2649	6.97859
87	200004	2000	4	1082.1473	21,932	12.341	8.78179	10.2655	6.96782
88	200101	2001	1	1069.9858	22,199	12.3451	8.80234	10.2658	6.95759
89	200102	2001	2	1057.882	21,927	12.3472	8.79944	10.2631	6.94592
90	200103	2001	3	1036.0588	21,679	12.3484	8.80814	10.262	6.92451
91	200104	2001	4	1004.2396	21,630	12.3508	8.79886	10.2612	6.89305
92	200201	2002	1	979.5314	21,742	12.3551	8.81426	10.257	6.8686
93	200202	2002	2	982.83885	21,476	12.3574	8.80327	10.2521	6.87244
94	200203	2002	3	971.09195	21,237	12.359	8.81727	10.2494	6.86003
95	200204	2002	4	957.64865	21,127	12.3613	8.80906	10.2471	6.84588
96	200301	2003	1	941.00971	21,184	12.3638	8.82874	10.2463	6.82806
97	200302	2003	2	935.96374	20,867	12.3649	8.81503	10.2456	6.82263
98	200303	2003	3	928.81162	20,673	12.3659	8.82518	10.2469	6.81465
99	200304	2003	4	920.97649	20,670	12.3677	8.8181	10.2488	6.80594
100	200401	2004	1	917.28947	20,910	12.3713	8.83793	10.2521	6.80184
101	200402	2004	2	925.27529	20,734	12.3722	8.82964	10.2492	6.81036
102	200403	2004	3	925.71414	20,584	12.3732	8.84408	10.2501	6.81091
103	200404	2004	4	915.3797	20,709	12.3749	8.83796	10.2523	6.79917
104	200501	2005	1	907.42951	21,017	12.3771	8.86007	10.2564	6.79021
105	200502	2005	2	911.06293	20,558	12.379	8.8509	10.2473	6.79425
106	200503	2005	3	913.19918	20,387	12.38	8.86671	10.2473	6.79593
107	200504	2005	4	906.46568	20,396	12.3811	8.86366	10.2482	6.78807
108	200601	2006	1	904.94886	20,672	12.3833	8.88685	10.2535	6.78581
109	200602	2006	2	909.44518	20,354	12.3858	8.88113	10.2465	6.79032
110	200603	2006	3	908.77736	20,103	12.3871	8.89404	10.244	6.78886
111	200604	2006	4	898.10482	20,100	12.3884	8.88863	10.2453	6.77662
112	200701	2007	1	889.1038	20,455	12.3908	8.90589	10.2496	6.76884
113	200702	2007	2	888.65534	20,346	12.3916	8.89508	10.2529	6.76838
114	200703	2007	3	888.81633	20,123	12.3924	8.90262	10.2521	6.76803
115	200704	2007	4	872.22771	20,106	12.3946	8.89538	10.2521	6.74876
116	200801	2008	1	859.23033	20,397	12.397	8.91036	10.2557	6.73328
117	200802	2008	2	858.88271	20,213	12.3974	8.89139	10.2576	6.73281
118	200803	2008	3	854.87002	20,028	12.3981	8.89618	10.2583	6.72707
119	200804	2008	4	829.48575	19,923	12.3994	8.87716	10.2593	6.69568

OBS	200901	2009	1	786.54769	20,008	12.4018	8.87974	10.2606	6.64262
DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LNOEMIND	
120	200901	2009	1	786.54769	20,008	12.4018	8.87974	10.2606	6.64262
121	200902	2009	2	763.53306	19,759	12.4028	8.84386	10.261	6.61312
122	200903	2009	3	746.75779	19,590	12.4025	8.83431	10.2609	6.59154
123	200904	2009	4	733.61021	19,440	12.4032	8.80603	10.2606	6.5734
124	201001	2010	1	724.035	19,565	12.4041	8.82188	10.2617	6.56018
125	201002	2010	2	731.13138	19,404	12.4045	8.80566	10.2633	6.57088
126	201003	2010	3	736.45014	19,219	12.4047	8.82117	10.2628	6.57703
127	201004	2010	4	731.71771	19,195	12.4053	8.80293	10.2625	6.5692
128	201101	2011	1	722.97919	19,358	12.4067	8.82206	10.2625	6.56357
129	201102	2011	2	729.73755	19,173	12.4065	8.81217	10.2616	6.5699
130	201103	2011	3	736.17661	19,003	12.4064	8.81998	10.2619	6.57633
131	201104	2011	4	730.77798	19,010	12.4071	8.81	10.2613	6.56752
132	201201	2012	1	728.32929	19,208	#N/A	8.83216	#N/A	6.56498
133	201202	2012	2	737.16423	19,059	#N/A	8.82284	#N/A	6.57298
134	201203	2012	3	742.24664	18,877	#N/A	8.83412	#N/A	6.58258
135	201204	2012	4	735.39439	18,811	#N/A	8.82382	#N/A	6.58948
136	201301	2013	1	729.23836	19,023	#N/A	8.84383	#N/A	6.58465
137	201302	2013	2	731.68308	18,922	#N/A	8.83537	#N/A	6.59373
138	201303	2013	3	738.06396	18,805	#N/A	8.8475	#N/A	6.60245
139	201304	2013	4	730.98625	18,813	#N/A	8.83986	#N/A	6.60584
140	201401	2014	1	735.69395	#N/A	#N/A	8.86039	#N/A	6.59728
141	201402	2014	2	745.21182	#N/A	#N/A	8.85318	#N/A	6.60313
142	201403	2014	3	755.82625	#N/A	#N/A	8.86692	#N/A	6.61352
143	201404	2014	4	748.81029	#N/A	#N/A	8.86029	#N/A	6.61754
144	201501	2015	1	751.61627	#N/A	#N/A	8.88179	#N/A	6.61056
145	201502	2015	2	755.16158	#N/A	#N/A	8.87484	#N/A	6.6158
146	201503	2015	3	760.61374	#N/A	#N/A	8.88861	#N/A	6.6242
147	201504	2015	4	755.39097	#N/A	#N/A	8.88174	#N/A	6.62632
148	201601	2016	1	757.91784	#N/A	#N/A	8.90197	#N/A	6.61754
149	201602	2016	2	760.93521	#N/A	#N/A	8.89418	#N/A	6.62021
150	201603	2016	3	765.64854	#N/A	#N/A	8.90769	#N/A	6.62844
151	201604	2016	4	758.79604	#N/A	#N/A	8.90047	#N/A	6.62976
152	201701	2017	1	760.55242	#N/A	#N/A	8.91936	#N/A	6.62087
153	201702	2017	2	763.66055	#N/A	#N/A	8.91002	#N/A	6.62207
154	201703	2017	3	767.8247	#N/A	#N/A	8.92204	#N/A	6.62817
155	201704	2017	4	760.82132	#N/A	#N/A	8.91347	#N/A	6.62831
156	201801	2018	1	762.4362	#N/A	#N/A	8.93101	#N/A	6.61794
157	201802	2018	2	766.31902	#N/A	#N/A	8.921	#N/A	6.61981
158	201803	2018	3	771.10129	#N/A	#N/A	8.93234	#N/A	6.62659

OBS	201804	2018	4	764.99182	#N/A	#N/A	8.9233	#N/A	8.9233	#N/A	6.62804
159	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNGCONCOM	LNG1EMCOM	LNCNONIND	LNOEMIND
160	201901	2019	1	765.55988	#N/A	#N/A	8.9402	#N/A	8.9402	#N/A	6.61754
161	201902	2019	2	767.82872	#N/A	#N/A	8.92971	#N/A	8.92971	#N/A	6.61834
162	201903	2019	3	771.05144	#N/A	#N/A	8.94079	#N/A	8.94079	#N/A	6.62367
163	201904	2019	4	763.41666	#N/A	#N/A	8.93175	#N/A	8.93175	#N/A	6.62367
164	202001	2020	1	763.94364	#N/A	#N/A	8.94877	#N/A	8.94877	#N/A	6.61338
165	202002	2020	2	765.76509	#N/A	#N/A	8.93868	#N/A	8.93868	#N/A	6.61419
166	202003	2020	3	768.54978	#N/A	#N/A	8.95229	#N/A	8.95229	#N/A	6.61994
167	202004	2020	4	760.37893	#N/A	#N/A	8.94215	#N/A	8.94215	#N/A	6.62021
168	202101	2021	1	760.27208	#N/A	#N/A	8.95826	#N/A	8.95826	#N/A	6.61097
169	202102	2021	2	761.70045	#N/A	#N/A	8.94772	#N/A	8.94772	#N/A	6.61231
170	202103	2021	3	764.71594	#N/A	#N/A	8.95877	#N/A	8.95877	#N/A	6.61914
171	202104	2021	4	756.52824	#N/A	#N/A	8.94977	#N/A	8.94977	#N/A	6.62087
172	202201	2022	1	756.10529	#N/A	#N/A	8.96636	#N/A	8.96636	#N/A	6.6111
173	202202	2022	2	756.96755	#N/A	#N/A	8.95577	#N/A	8.95577	#N/A	6.61123
174	202203	2022	3	759.84208	#N/A	#N/A	8.96661	#N/A	8.96661	#N/A	6.6166
175	202204	2022	4	751.93865	#N/A	#N/A	8.95732	#N/A	8.95732	#N/A	6.61673
176	202301	2023	1	751.90222	#N/A	#N/A	8.9741	#N/A	8.9741	#N/A	6.60611
177	202302	2023	2	753.03893	#N/A	#N/A	8.96376	#N/A	8.96376	#N/A	6.60489
178	202303	2023	3	756.15882	#N/A	#N/A	8.97499	#N/A	8.97499	#N/A	6.60948
179	202304	2023	4	748.359	#N/A	#N/A	8.96646	#N/A	8.96646	#N/A	6.60868
180	202401	2024	1	748.62804	#N/A	#N/A	8.98387	#N/A	8.98387	#N/A	6.59837
181	202402	2024	2	749.85631	#N/A	#N/A	8.97367	#N/A	8.97367	#N/A	6.59755
182	202403	2024	3	752.98404	#N/A	#N/A	8.98496	#N/A	8.98496	#N/A	6.60191
183	202404	2024	4	745.20564	#N/A	#N/A	8.97651	#N/A	8.97651	#N/A	6.60055
184	202501	2025	1	744.61528	#N/A	#N/A	8.9939	#N/A	8.9939	#N/A	6.58934
185	202502	2025	2	744.94573	#N/A	#N/A	8.98378	#N/A	8.98378	#N/A	6.5881
186	202503	2025	3	747.10569	#N/A	#N/A	8.99524	#N/A	8.99524	#N/A	6.59181
187	202504	2025	4	738.70829	#N/A	#N/A	8.98705	#N/A	8.98705	#N/A	6.58961
188	202601	2026	1	738.12192	#N/A	#N/A	9.00445	#N/A	9.00445	#N/A	6.578
189	202602	2026	2	738.491	#N/A	#N/A	8.99442	#N/A	8.99442	#N/A	6.57591
190	202603	2026	3	740.69288	#N/A	#N/A	9.00623	#N/A	9.00623	#N/A	6.57967
191	202604	2026	4	732.46988	#N/A	#N/A	8.99824	#N/A	8.99824	#N/A	6.57758
192	202701	2027	1	731.60213	#N/A	#N/A	9.01576	#N/A	9.01576	#N/A	6.56597
193	202702	2027	2	731.59247	#N/A	#N/A	9.00587	#N/A	9.00587	#N/A	6.564
194	202703	2027	3	733.57956	#N/A	#N/A	9.01751	#N/A	9.01751	#N/A	6.5678
195	202704	2027	4	725.32781	#N/A	#N/A	9.00944	#N/A	9.00944	#N/A	6.56569
196	202801	2028	1	724.77986	#N/A	#N/A	9.02667	#N/A	9.02667	#N/A	6.55393
197	202802	2028	2	724.70889	#N/A	#N/A	9.01634	#N/A	9.01634	#N/A	6.55194

OBS	202803	2028	3	726.54975	#N/A	LGCONCOM	9.02786	LNCONIND	6.55564
198	DTE	YEAR	QUARTER	EMPIND	ACTIND		LG1EMCOM		LN0EMIND
199	202804	2028	4	718.14549	#N/A	#N/A	9.01965	#N/A	6.55336
200	202901	2029	1	717.63233	#N/A	#N/A	9.03677	#N/A	6.54161
201	202902	2029	2	717.76305	#N/A	#N/A	9.02641	#N/A	6.53973
202	202903	2029	3	719.86741	#N/A	#N/A	9.03788	#N/A	6.54377
203	202904	2029	4	711.91766	#N/A	#N/A	9.02981	#N/A	6.54204
204	203001	2030	1	711.53652	#N/A	#N/A	9.04673	#N/A	6.53044
205	203002	2030	2	711.31932	#N/A	#N/A	9.03627	#N/A	6.5281
206	203003	2030	3	713.87876	#N/A	#N/A	9.04888	#N/A	6.53306
207	203004	2030	4	706.19994	#N/A	#N/A	9.03942	#N/A	6.5319
208	203101	2031	1	705.99785	#N/A	#N/A	9.05529	#N/A	6.52092
209	203102	2031	2	706.5426	#N/A	#N/A	9.04458	#N/A	6.52003
210	203103	2031	3	708.94225	#N/A	#N/A	9.05573	#N/A	6.52547
211	203104	2031	4	701.18725	#N/A	#N/A	9.04727	#N/A	6.52459
212	203201	2032	1	701.12704	#N/A	#N/A	9.06356	#N/A	6.51397
213	203202	2032	2	701.37019	#N/A	#N/A	9.05248	#N/A	6.51323
214	203203	2032	3	703.72461	#N/A	#N/A	9.06321	#N/A	6.5187
215	203204	2032	4	696.03166	#N/A	#N/A	9.05467	#N/A	6.51767
216	203301	2033	1	696.07713	#N/A	#N/A	9.07086	#N/A	6.50668
217	203302	2033	2	696.48081	#N/A	#N/A	9.05975	#N/A	6.50593
218	203303	2033	3	699.09303	#N/A	#N/A	9.07048	#N/A	6.5113
219	203304	2033	4	691.79998	#N/A	#N/A	9.06204	#N/A	6.51041
220	203401	2034	1	692.23324	#N/A	#N/A	9.07808	#N/A	6.49964
221	203402	2034	2	692.94529	#N/A	#N/A	9.06691	#N/A	6.49888
222	203403	2034	3	695.71186	#N/A	#N/A	9.07761	#N/A	6.50429
223	203404	2034	4	688.44334	#N/A	#N/A	9.0694	#N/A	6.50354
224	203501	2035	1	688.89817	#N/A	#N/A	9.08565	#N/A	6.49285
225	203502	2035	2	689.63769	#N/A	#N/A	9.07449	#N/A	6.49209
226	203503	2035	3	692.56426	#N/A	#N/A	9.08521	#N/A	6.49783
227	203504	2035	4	685.42811	#N/A	#N/A	9.07693	#N/A	6.49708
228	203601	2036	1	685.91706	#N/A	#N/A	9.09312	#N/A	6.48647
229	203602	2036	2	686.67719	#N/A	#N/A	9.08186	#N/A	6.48601
230	203603	2036	3	689.53261	#N/A	#N/A	9.09274	#N/A	6.49179
231	203604	2036	4	682.38698	#N/A	#N/A	9.08455	#N/A	6.49133
232	203701	2037	1	682.9128	#N/A	#N/A	9.10074	#N/A	6.48142
233	203702	2037	2	683.58766	#N/A	#N/A	9.08946	#N/A	6.48127
234	203703	2037	3	686.37735	#N/A	#N/A	9.1002	#N/A	6.48692
235	203704	2037	4	679.27964	#N/A	#N/A	9.09195	#N/A	6.48647
236	203801	2038	1	679.9529	#N/A	#N/A	9.10814	#N/A	6.47666

OBS	DTE	YEAR	QUARTER	EMPIND	ACTIND	LGCONCOM	LG1EMCOM	LNCONIND	LN0EMIND
237	203802	2038	2	680.74479	#N/A	#N/A	9.09678	#N/A	6.47636
238	203803	2038	3	683.66961	#N/A	#N/A	9.10764	#N/A	6.48219
239	203804	2038	4	676.62749	#N/A	#N/A	9.09933	#N/A	6.48188
240	203901	2039	1	677.31117	#N/A	#N/A	9.11549	#N/A	6.47188
241	203902	2039	2	678.02828	#N/A	#N/A	9.1042	#N/A	6.47157
242	203903	2039	3	680.86391	#N/A	#N/A	9.11514	#N/A	6.47743
243	203904	2039	4	673.69849	#N/A	#N/A	9.10698	#N/A	6.47713
244	204001	2040	1	674.36699	#N/A	#N/A	9.12326	#N/A	6.46723
245	204002	2040	2	674.62949	#N/A	#N/A	9.11197	#N/A	6.46677
246	204003	2040	3	677.67441	#N/A	#N/A	9.12437	#N/A	6.47312
247	204004	2040	4	670.68445	#N/A	#N/A	9.11494	#N/A	6.47327
248	204101	2041	1	671.56153	#N/A	#N/A	9.13041	#N/A	6.46381
249	204102	2041	2	672.30429	#N/A	#N/A	9.11893	#N/A	6.46397
250	204103	2041	3	675.29696	#N/A	#N/A	9.13006	#N/A	6.47033
251	204104	2041	4	668.34699	#N/A	#N/A	9.12208	#N/A	6.47049

APPENDIX C

"Natural Gas in New Homes (A Survey of Single-family Home Builders)"

Natural Gas in New Homes

(A Survey of Single-family Home Builders)



September 2021

Economics & Housing Policy Group

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INTRODUCTION

For more than 30 years, the National Association of Home Builders (NAHB) has conducted a monthly survey of single-family builder members in order to generate the NAHB/Wells Fargo Housing Market Index (HMI). The HMI survey asks builders to rate market conditions for the sale of new homes at the present time and expected over the next 6 months, as well as the traffic of prospective buyers. The results are combined into a single composite index that measures the overall strength of the market for new single-family housing. Throughout its history, the HMI has become a leading indicator of single-family housing starts and is widely reported in business media and used by the Federal Reserve Bank, government agencies, and Wall Street analysts.

In August 2021, a set of special questions were included in the HMI survey regarding the average sales price of comparable homes with and without natural gas as well as the number of days each spent on the market before going under contract. The survey also asked whether there has been a change in buyers' preference for natural gas and how likely buyers are to request that specific appliances be installed for natural gas. The final two questions asked builders about the level of influence several factors have on their decision to install gas vs. electric appliances and their preference for fuel type based on each one of those factors.

The survey questionnaire (Appendix I) was sent electronically to a panel of approximately 3,000 builder members. A total of 360 builders responded to the survey, for a response rate of 12 percent, but not all questions were answered by every respondent. This report analyses responses by the four Census regions and by the number of for-sale units started by the builder in 2020. Any breakdown with fewer than 10 responses was removed to ensure the statistical reliability of cross-sectional analysis. In addition, the analysis comparing the price of homes with and without natural gas only includes homes with prices below \$1 million.

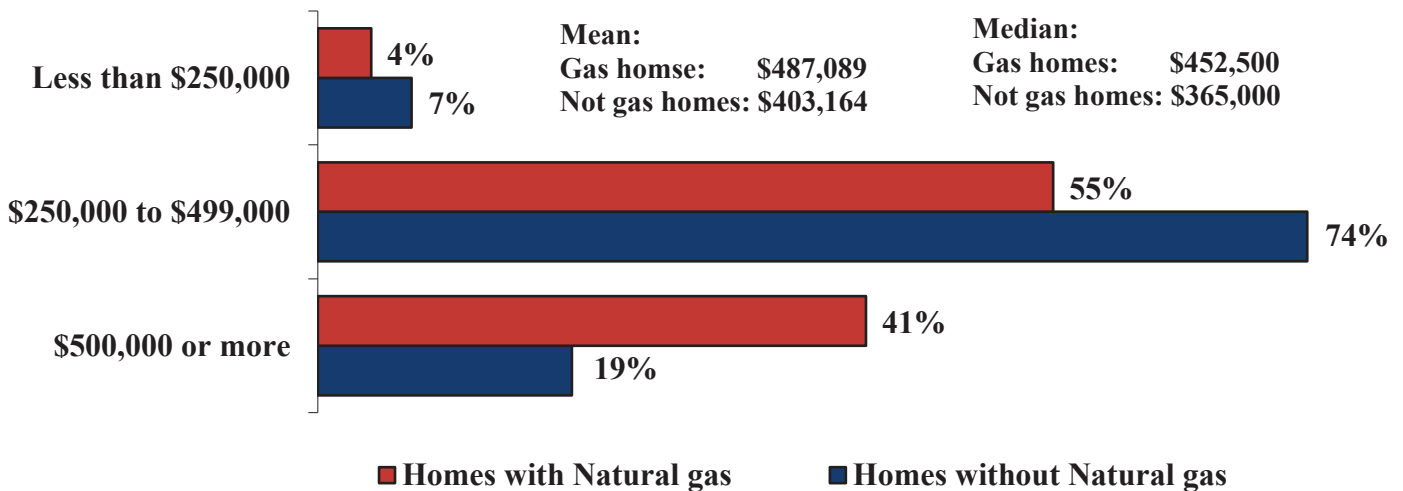
SURVEY FINDINGS

Builders were asked to report the average sales price for comparable single-family homes with and without natural gas built for-sale in the prior year. A total of 200 builders provided average prices: 140 reported the price of only one of these two types of homes and 60 reported the prices of both types of homes. At the request of the Energy Solutions Center, all observations showing prices of \$1 million or more were excluded from the analysis below. After the exclusion, results are based on responses from 170 builders, 119 of whom reported the price of only one type of home and 51 who reported the prices of both homes with and without natural gas. The price comparison is done first among all 170 respondents, regardless of whether they reported one or two of the prices asked, and then among the 51 common respondents who reported prices for both types of homes.

All Respondents

When all responses are aggregated, the price of a new home with natural gas averages \$487,089, about 21 percent higher than the average \$403,164 for a home without natural gas (Exhibit 1). An important finding to highlight is that 41 percent of builders reported their gas homes sold for at least \$500,000, more than double the share who reported that price point for homes without gas (19 percent).

**Exhibit 1: Sales price for homes with & without natural gas – ALL RESPONDENTS
(Percent of Respondents)**



The average sales price of homes with natural gas was higher than of those without gas in all regions of the country and across categories of builder size for which enough data were collected. For example, in the South, the average home with gas sold for \$464,719, a 22 percent premium over a comparable home without gas (\$382,098). In the Midwest, homes with natural gas sold for an average \$467,475, 11 percent higher than those without gas (\$423,000). In the West, the average gas home sold for \$537,696, but not enough builders provided price data for homes without gas to produce a reliable estimate for them in this region. The latter was also the case for both types of homes in the Northeast.

Meanwhile, across builder size categories, builders who started at least 100 units in 2020 reported their average gas home sold for \$433,333, 25 percent more than their average non-gas home (\$346,600). The price difference was significantly lower among smaller builders. Builders with 6 to 24 starts sold their average gas home for \$505,299, 11 percent more than their average non-gas home (\$454,174). Among builders with 25 to 99 housing starts, the price difference amounted to only 8 percent: \$468,973 for gas homes vs. \$435,653 for homes without natural gas (Exhibit 2).

**Exhibit 2. Sales price for homes with & without natural gas – By Region and Firm Size:
ALL RESPONDENTS
(Percent of Respondents)**

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
HOME WITH NATURAL GAS									
Less than \$250,000	4		5	6		5	5	5	5
\$250,000-\$499,999	55		62	58	43	52	50	61	67
\$500,000 or more	41		33	36	57	43	45	34	29
Mean	\$487,089		\$467,475	\$464,719	\$537,696	\$494,619	\$505,299	\$468,973	\$433,333
Median	\$452,500		\$450,000	\$450,000	\$500,000	\$430,000	\$475,000	\$450,000	\$450,000
Min	\$190,000		\$200,000	\$190,000	\$317,157	\$230,000	\$200,000	\$190,000	\$235,000
Max	\$950,000		\$950,000	\$850,000	\$950,000	\$925,000	\$950,000	\$950,000	\$700,000
Responses	148		39	72	30	21	42	41	21
HOME WITHOUT NATURAL GAS									
Less than \$100,000	7			10				6	10
\$250,000-\$499,999	74		80	76			70	65	90
\$500,000 or more	19		20	14			30	29	
Mean	\$403,164		\$423,000	\$382,098			\$454,174	\$435,653	\$346,600
Median	\$365,000		\$371,000	\$350,000			\$400,000	\$375,000	\$312,500
Min	\$190,000		\$279,000	\$190,000			\$285,000	\$190,000	\$200,000
Max	\$875,000		\$800,000	\$800,000			\$800,000	\$875,000	\$470,000
Responses	73		10	50			23	17	10

The HMI survey has asked builders about the average price of homes they build with natural gas three times in the past. Not adjusted for inflation, the average price builders reported for this type of home was \$302,922 in December 2002, \$361,362 in October 2010, \$407,185 in August 2016, and now \$487,089 in August 2021 (Exhibit 3)¹.

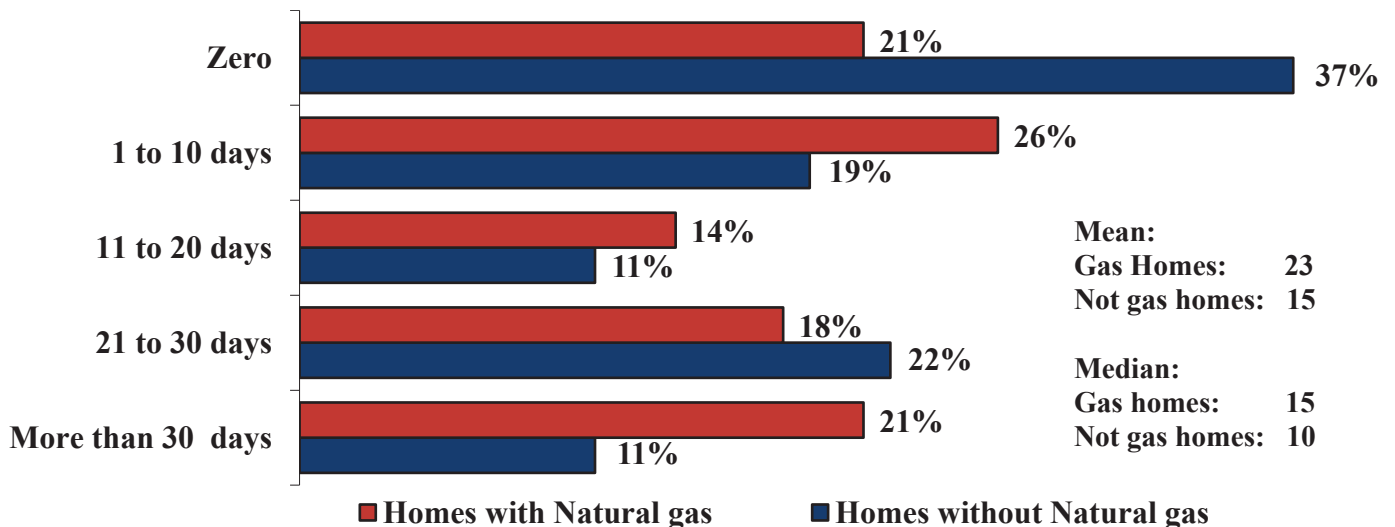
¹ Tabulations in 2002 and 2010 did not exclude homes with prices of \$1 million or more.

**Exhibit 3: History of sales price for homes with natural gas – ALL RESPONDENTS
(Percent of Respondents)**

	Dec. 2002	Oct. 2010	Aug. 2016	Aug. 2021
Less than \$100,000	3	1		
\$100,000-\$149,999	22	4	1	
\$150,000-\$174,999	8	6	1	
\$175,000-\$249,999	15	24	12	4
\$250,000-\$499,999	39	48	58	55
\$500,000 or more	14	17	28	41
Mean	\$302,922	\$361,362	\$407,185	\$487,089
Median	\$250,000	\$289,975	\$350,000	\$452,500
Min	\$15,000	\$50,000	\$130,000	\$190,000
Max	\$1,200,000	\$2,200,000	\$975,000	\$950,000

The same question that asked builders for the average price of comparable homes with and without natural gas also asked (for the first time in HMI history) about the number of days each type of home was on the market before going under contract. When aggregated across all responses, gas homes stayed on the market for an average of 23 days (median=15 days), compared to only 15 days for homes without natural gas (median=10 days). A point to note is that 21 percent of builders reported their gas homes stayed on the market for more than 30 days, compared to a smaller 11 percent share for homes without gas (Exhibit 4).

**Exhibit 4: Number of days for homes with & without natural gas – ALL RESPONDENTS
(Percent of Respondents)**



The average number of days homes with natural gas were on the market was higher than for homes without natural gas in all regions and across categories of builder size for which enough data were collected. In the Midwest and South regions, builders reported that homes with natural gas stayed on the market an average of 25 days, compared to 11 and 16 days, respectively, for homes without gas. Among builders with 5 or fewer starts, homes with gas were on the market for an average of 31 days vs. 13 days for those without. The comparison is 18 days vs. 12 days for builders with 6 to 24 starts, and 21 days vs. 17 days for builders with 25 to 99 starts (Exhibit 5).

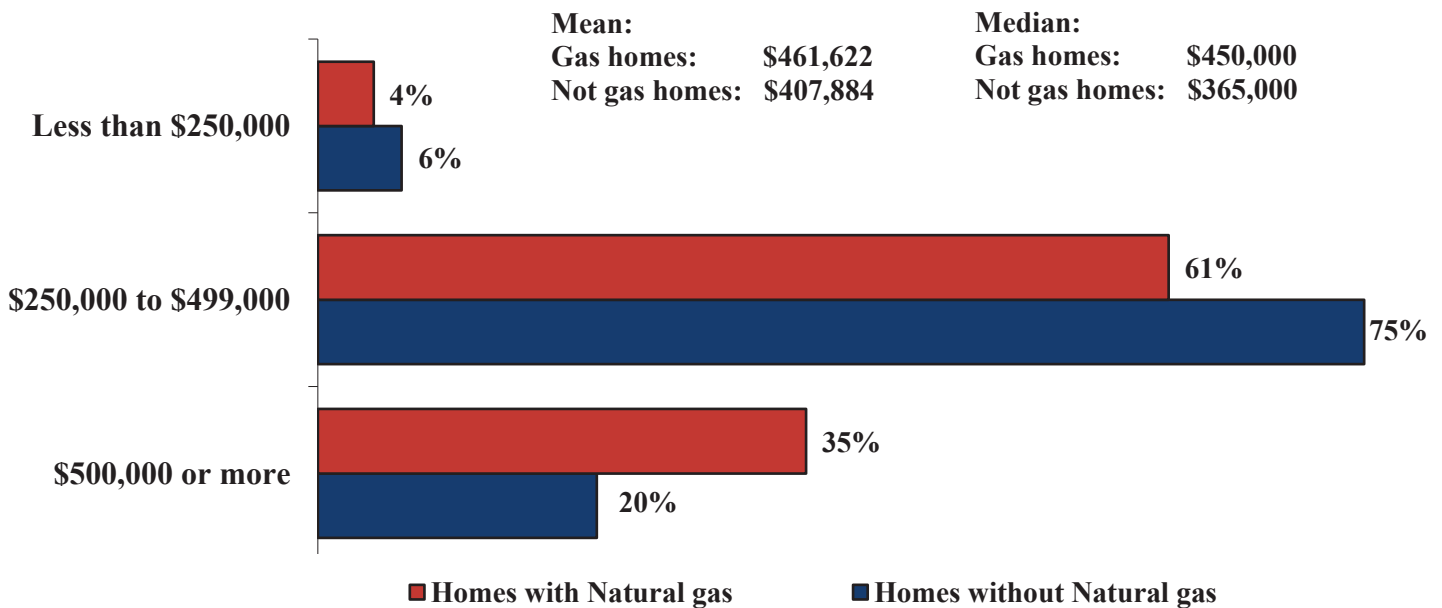
**Exhibit 5. Number of days for homes with & without natural gas – By Region and Firm Size:
ALL RESPONDENTS
(Percent of Respondents)**

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
HOME WITH NATURAL GAS									
Zero	21		25	21	16	17	34	20	10
1 to 10 days	26		19	24	35	22	20	33	25
11 to 20 days	14		11	10	26	13	12	8	25
21 to 30 days	18		19	22	10	17	15	18	20
More than 30 days	21		25	24	13	30	20	23	20
Mean	23		25	25	16	31	18	21	23
Median	15		15	20	10	20	10	10	15
Min	0		0	0	0	0	0	0	0
Max	180		100	180	60	180	90	110	60
Responses	145		36	72	31	23	41	40	20
HOME WITHOUT NATURAL GAS									
Zero	37		36	37		40	48	41	
1 to 10 days	19		18	20		10	17	12	
11 to 20 days	11		27	8		20	9	6	
21 to 30 days	22		18	22		30	17	24	
More than 30 days	11			12			9	18	
Mean	15		11	16		13	12	17	
Median	10		10	7		12	1	5	
Min	0		0	0		0	0	0	
Max	60		30	60		30	60	60	
Responses	73		11	49		10	23	17	

Common Respondents

When only common respondents are considered (builders reporting prices for homes with natural gas and also for those without gas), the average price for homes with gas was \$461,622, 13 percent higher than the \$407,884 average for homes without gas. This 13-point price difference among common respondents is significantly smaller than the 21-point price difference described earlier among all respondents. Within the subset of common respondents, 35 percent reported their gas homes sold for \$500,000 or more, compared to only 20 percent who reported that price point for homes without natural gas (Exhibit 6).

**Exhibit 6. Sales price for comparable homes with & without gas - COMMON RESPONDENTS
(Percent of Respondents)**



When only common respondents are analyzed by region and builder size, results show that the average price of a gas home is higher than that of a home without gas in every instance where data are available. For instance, builders in the South who sold both gas homes and non-gas homes reported an average price of \$459,875 for the former and \$377,844 for the latter, a difference of 22 percentage points. Among builders with 6 to 24 housing starts, the price difference was 7 percentage points: \$470,833 for

gas homes vs. \$438,917 for non-gas homes. Among builders with 25 to 99 starts, the difference was 5 percentage points: \$464,914 for gas homes vs. \$443,074 for non-gas homes (Exhibit 7).

**Exhibit 7. Sales price for comparable homes with & without gas – By Region and Firm Size:
COMMON RESPONDENTS
(Percent of Respondents)**

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
HOME WITH NATURAL GAS									
Less than \$250,000	4			6				7	
\$250,000-\$499,999	61			56			67	53	
\$500,000 or more	35			38			33	40	
Mean	\$461,622			\$459,875			\$470,833	\$464,914	
Median	\$450,000			\$450,000			\$427,000	\$450,000	
Min	\$190,000			\$190,000			\$300,000	\$190,000	
Max	\$875,000			\$850,000			\$750,000	\$875,000	
Responses	51			32			12	15	
HOME WITHOUT NATURAL GAS									
Less than \$100,000	6			9				7	
\$250,000-\$499,999	75			78			75	60	
\$500,000 or more	20			13			25	33	
Mean	\$407,884			\$377,844			\$438,917	\$443,074	
Median	\$365,000			\$337,500			\$381,000	\$375,000	
Min	\$190,000			\$190,000			\$285,000	\$190,000	
Max	\$875,000			\$700,000			\$800,000	\$875,000	
Responses	51			32			12	15	

Exhibit 8 shows the price history available for homes with gas as reported by the smaller subset of builders who at the same time provided an average price for a different type of home². Among this group of respondents, and not adjusted for inflation, the average price for a home with natural gas was \$220,800 in December 2002, \$328,549 in October 2010, \$354,928 in August 2016, and now \$461,622 in August 2021.

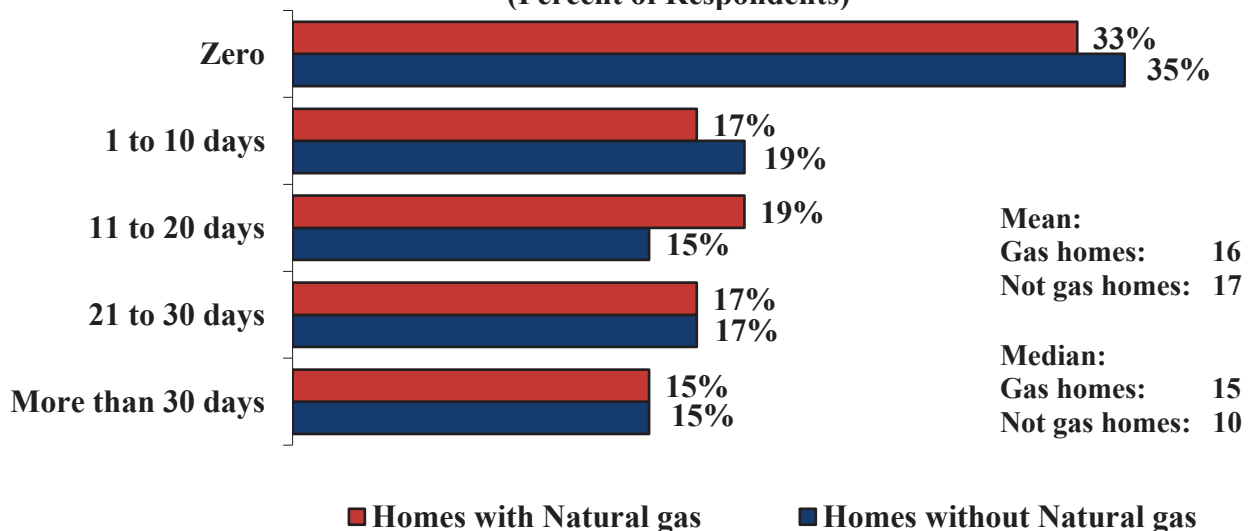
² Prior to 2021, the survey asked specifically about the average price of an ‘electric’ home. In 2021, the comparison home became a broader “home without natural gas.”

**Exhibit 8. History of sales price for homes with natural gas – COMMON RESPONDENTS
(Percent of Respondents)**

	Dec. 2002	Oct. 2010	Aug. 2016	Aug. 2021
Less than \$100,000	3	2		
\$100,000-\$149,999	33	5	2	
\$150,000-\$174,999	8	6		
\$175,000-\$249,999	11	33	16	4
\$250,000-\$499,999	44	44	63	61
\$500,000 or more		10	18	35
Mean	\$220,800	\$328,549	\$354,928	\$461,622
Median	\$186,450	\$250,000	\$325,000	\$450,000
Min	\$40,000	\$50,000	\$130,000	\$190,000
Max	\$450,000	\$2,200,000	\$825,000	\$875,000

Looking at the average number of days on the market only among common respondents (builders who provided a response for both homes with and without natural gas) reveals very little difference. According to these builders, gas homes stayed on the market for an average of 16 days, only 1 day less than the average 17 days for homes without gas. The plurality of these builders – around one-third – reported that both types of homes were on the market for zero days, meaning they sold even before being formally offered for-sale (Exhibit 9).

**Exhibit 9: Number of days on the market for homes with & without natural gas –
COMMON RESPONDENTS
(Percent of Respondents)**



When only considering common respondents, the average number of days homes with or without natural gas were on the market was about the same for any of the regional or builder size breakdowns available. In the South, for example, both homes stayed on the market for the exact same average number of days: 19. Among builders with 6 to 24 starts, homes with gas were on the market an average of 11 days vs. 12 days for those without gas. The comparison is 16 days vs. 17 days, respectively, for builders with 25 to 99 starts (Exhibit 10).

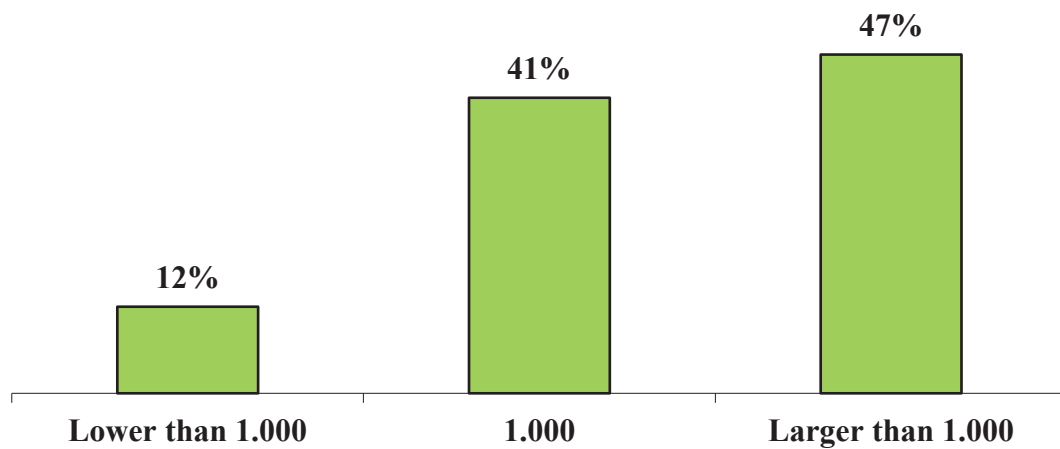
Exhibit 10. Number of days on the market for homes with & without natural gas – By Region and Firm Size: COMMON RESPONDENTS (Percent of Respondents)

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
HOME WITH NATURAL GAS									
Zero	33			27			42	43	
1 to 10 days	17			20			25	14	
11 to 20 days	19			10			25	7	
21 to 30 days	17			23			8	14	
More than 30 days	15			20				21	
Mean	16			19			11	16	
Median	15			18			5	5	
Min	0			0			0	0	
Max	60			60			30	60	
Responses	48			30			12	14	
HOME WITHOUT NATURAL GAS									
Zero	35			33			50	43	
1 to 10 days	19			20			17	14	
11 to 20 days	15			10			8	7	
21 to 30 days	17			20			17	14	
More than 30 days	15			17			8	21	
Mean	17			19			12	17	
Median	10			13			3	5	
Min	0			0			0	0	
Max	60			60			40	60	
Responses	48			30			12	14	

Ratio of sales price of homes with natural gas vs. homes without natural gas

About 41 percent of common respondents reported identical sales prices for a home with natural gas as for one without it (for a sales price ratio of 1.0). A small minority of 12 percent reported a lower price for gas homes than for non-gas homes, which produced sales price ratios lower than 1.0. Meanwhile, 47 percent reported higher sales prices for gas homes, producing price ratios larger than 1.0 (Exhibits 11 and 12).

**Exhibit 11. Ratio of sales price of homes with natural gas over homes without natural gas
(Percent of Common Respondents)**



**Exhibit 12. Ratio of sales price of homes with natural gas over homes without natural gas – By
Region and Firm Size
(Percent of Common Respondents)**

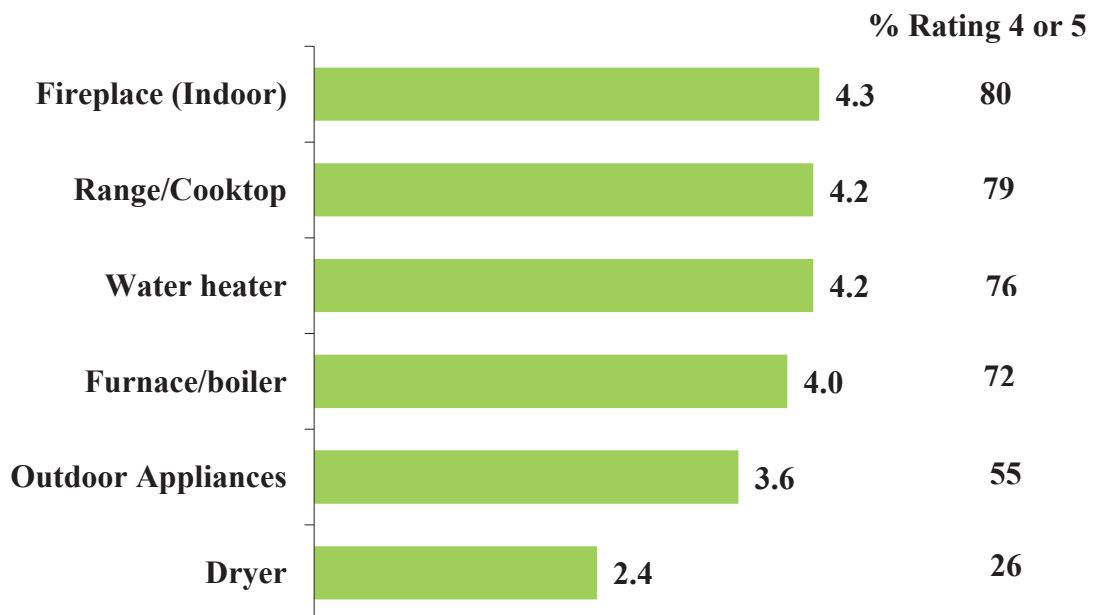
	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
0.61	1.96			3.13				6.67	
0.93	1.96								
0.94	3.92						8.33	6.67	
0.95	1.96								
0.95	1.96							6.67	
1.00	41.18			43.75			58.33	40.00	
1.00	1.96								
1.00	1.96						8.33		
1.01	1.96			3.13					
1.02	1.96			3.13					
1.03	1.96			3.13					
1.03	1.96								
1.03	1.96						8.33		
1.05	1.96			3.13					
1.05	1.96							6.67	
1.14	1.96			3.13				6.67	
1.16	1.96							6.67	
1.19	1.96			3.13			8.33		
1.25	1.96			3.13				6.67	
1.33	1.96			3.13					
1.38	3.92			6.25				6.67	
1.50	1.96			3.13				6.67	
1.53	1.96								
1.72	1.96			3.13					
1.89	1.96			3.13					
2.00	1.96			3.13					
2.09	1.96			3.13			8.33		
2.26	1.96			3.13					
2.50	1.96			3.13					
Mean	1.17			1.26			1.10	1.07	
Median	1.00			1.01			1.00	1.00	
Min	0.61			0.61			0.94	0.61	
Max	2.50			2.50			2.09	1.50	
Responses	51			32			12	15	

Buyers' Preferences for Natural Gas

Builders were also asked about how likely it is for prospective home buyers to specifically request that certain appliances be installed or plumbed for natural gas. On a scale from 1 to 5, where 1=not at all likely and 5=very likely, the indoor fireplace is the most likely appliance buyers request be plumbed for gas, with an average rating of 4.3 (80 percent rated it likely or very likely, 4 or 5). The range/cooktop and the water heater tie in second place, with an average rating of 4.2 (79 and 76 percent, respectively, rated them 4 or 5). The only other appliance with an average rating of 4.0 or higher was the furnace/boiler.

The two appliances buyers are least likely to request be plumbed for gas are outdoor appliances and the dryer. Outdoor appliances received an average rating of 3.6 (55 percent rated it 4 or 5) and the dryer a 2.4, as only 26 percent of builders rated it likely or very likely (Exhibit 13).

**Exhibit 13: Likelihood prospective home buyers request appliances be installed or plumbed for natural gas (1= Not at all likely and 5=Very likely)
(Average Rating)**



Looking at results across regions of the country reveals that in the Northeast the range/cooktop and the furnace tie in first place as the most likely appliance buyers will request be plumbed for gas (3.9 average rating for both). In the Midwest, the title goes to the furnace (4.6 average rating), while in the South, the fireplace and the range/cooktop tie as the most likely (4.2 average rating for both). In the West, the fireplace and the water heater are the likeliest appliances buyers will request be plumbed for gas (4.6 average rating for both).

According to builders who start fewer than 5 units, the range/cooktop and the water heater are the most likely appliances buyers want to be plumbed for gas, while among those who start 6 to 99 units, the fireplace ranks at the top. For builders starting 100+ units, the furnace is the most likely appliance their buyers will request be plumbed for gas (Exhibit 14).

Exhibit 14. Likelihood prospective home buyers request appliances be installed or plumbed for natural gas - By Region and Firm Size (Percent of Respondents)

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
Dryer									
1:Not at all likely	42	56	30	51	28	33	42	47	35
2	21	8	19	19	34	18	24	23	19
3	11	12	18	9	10	16	12	7	13
4	8	4	8	7	10	9	3	7	19
5:Very likely	18	20	25	15	17	24	19	17	13
<i>Average Rating</i>	2.4	2.2	2.8	2.2	2.6	2.7	2.3	2.2	2.6
Responses	317	25	73	161	58	85	93	60	31
Fireplace (Indoor)									
1:Not at all likely	9	24	7	10	2	6	8	8	20
2	3	8	1	4	2	2	3	5	3
3	8	16	11	6	7	9	3	7	13
4	14	4	16	13	19	16	13	14	20
5:Very likely	66	48	65	67	71	66	72	66	43
<i>Average Rating</i>	4.3	3.4	4.3	4.2	4.6	4.3	4.4	4.2	3.6
Responses	322	25	75	163	59	85	97	59	30

Exhibit 14. Likelihood prospective home buyers request appliances be installed or plumbed for natural gas - By Region and Firm Size

(Percent of Respondents) – continued

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
Furnace/boiler									
1:Not at all likely	16	16	4	24	7	13	19	13	13
2	3	8		5		2	5	3	
3	10	4	7	14	5	12	6	12	20
4	11	12	7	10	16	16	10	8	7
5:Very likely	61	60	83	47	72	56	60	63	60
<i>Average Rating</i>	4.0	3.9	4.6	3.5	4.5	4.0	3.9	4.1	4.0
Responses	322	25	75	164	58	85	97	60	30
Range/cooktop									
1:Not at all likely	5	16	3	5	3	4	6	5	6
2	4	4	9	3	2	1	6	3	13
3	11	12	13	13	3	8	10	18	19
4	23	8	33	20	25	24	25	28	13
5:Very likely	56	60	41	58	66	64	53	46	48
<i>Average Rating</i>	4.2	3.9	4.0	4.2	4.5	4.4	4.1	4.1	3.8
Responses	325	25	75	166	59	85	97	61	31
Water heater									
1:Not at all likely	7	20	5	7	3	4	9	7	6
2	6	16	4	7		1	5	7	16
3	12	8	11	15	5	14	8	11	19
4	13	4	12	13	17	12	18	16	6
5:Very likely	63	52	68	58	75	69	60	59	52
<i>Average Rating</i>	4.2	3.6	4.3	4.1	4.6	4.4	4.1	4.2	3.8
Responses	323	25	74	165	59	84	97	61	31
Outdoor Appliances (grills, firepits, tiki torches, outdoor fireplaces, etc.)									
1:Not at all likely	11	24	12	9	8	6	13	10	16
2	14	28	16	13	8	11	13	13	23
3	20	20	26	19	19	14	23	25	23
4	17	8	14	17	24	11	19	18	16
5:Very likely	38	20	32	43	41	58	32	33	23
<i>Average Rating</i>	3.6	2.7	3.4	3.7	3.8	4.1	3.4	3.5	3.1
Responses	323	25	73	166	59	84	97	60	31

Builders had been asked about which appliances were most likely for buyers to request be plumbed for gas once before. In 2016, the indoor fireplace was the single most likely appliance buyers specifically requested gas plumbing for, with an average rating of 4.5. In 2021, the fireplace remained at the top of the list, with an average rating of 4.3. The dryer, on the other hand, has been the least likely item buyers request gas for both times, with average ratings of 2.6 in 2016 and 2.4 in 2021 (Exhibit 15).

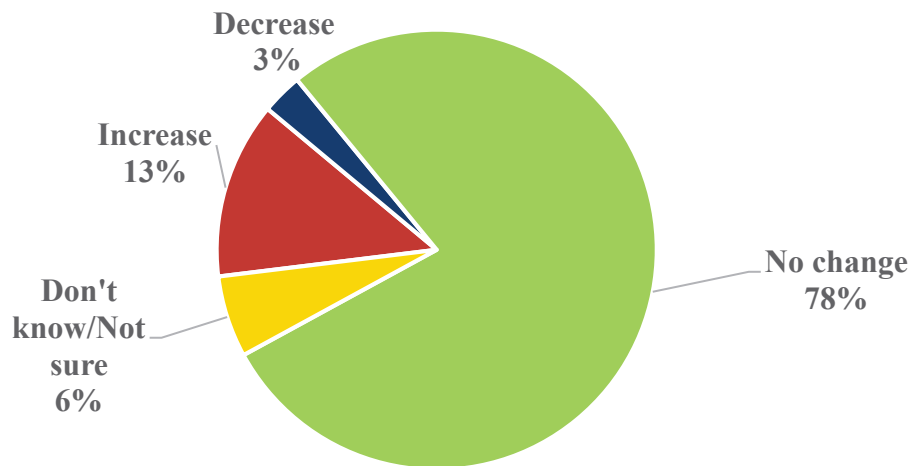
**Exhibit 15. History of average likelihood prospective home buyers request appliances be installed for natural gas
(1=not at all likely, 5=very likely)**

	Aug. 2016	Aug. 2021
Fireplace (Indoor)	4.5	4.3
Range/cooktop	4.1	4.2
Water heater	4.3	4.2
Furnace/boiler	4.2	4.0
Outdoor Appliances (grills, firepits, tiki torches, outdoor fireplaces, etc.)	<i>n/a</i>	3.6
Dryer	2.6	2.4

Change in buyers' preference for natural gas in the last year

When asked if they had noticed any change in home buyers' preference for natural gas in the past year, more than three-fourths of builders reported seeing 'no change' (78 percent). A minority of 13 percent noticed an increase, while a small fraction of only 3 percent noticed a decrease in buyers' preference for gas (Exhibit 16).

Exhibit 16: During the past year, have you noticed an increase or decrease in buyers' preference for natural gas? (Percent of Respondents)



Seventeen percent of builders in the West reported noticing an increase in buyers' preferences for natural gas during the past year, about the same share as in the Northeast (16 percent). Builders in the South and Midwest were somewhat less likely to report increased preferences for gas, with those shares at only 10 percent and 13 percent, respectively.

A breakdown of results by number of starts shows that builders with 25 to 99 starts were the most likely to notice an increase in gas preferences (23 percent). Fewer than 15 percent of builders in all other size categories noticed more buyers interested in natural gas (Exhibit 17).

Exhibit 17: During the past year, have you noticed an increase or decrease in buyers' preference for natural gas? By Region and Firm Size (Percent of Respondents)

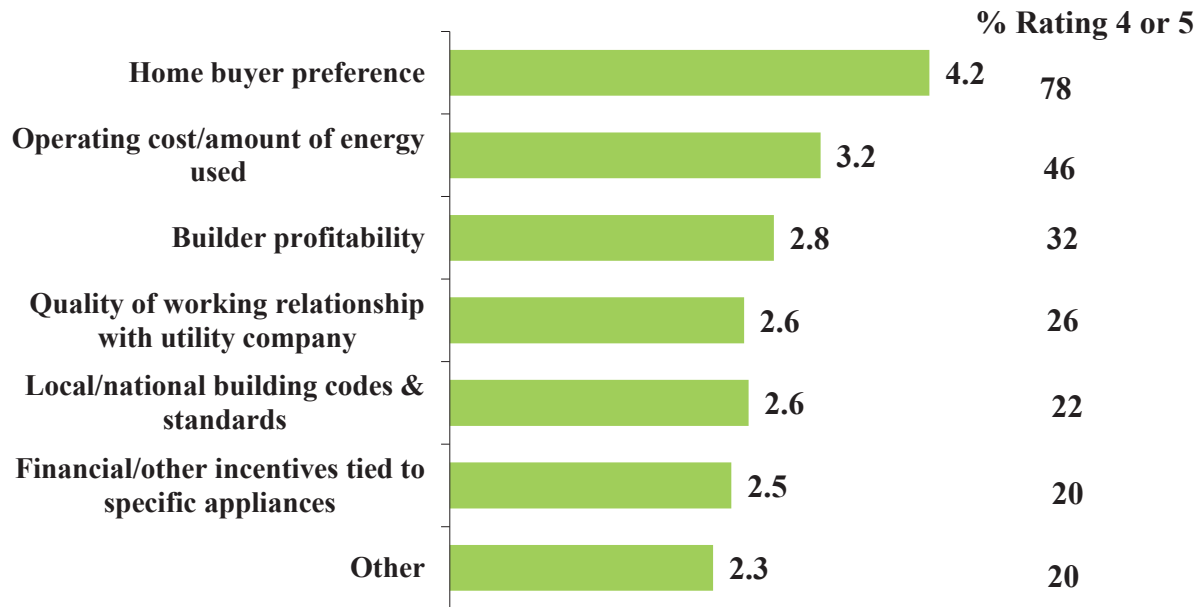
	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
Increase	13	16	13	10	17	9	12	23	10
Decrease	3	8	1	3	2	2	3		
No change	78	68	83	78	76	79	76	74	83
Don't know/Not sure	6	8	3	8	5	9	8	3	7
Responses	325	25	75	166	59	85	97	62	30

Influence of Factors on Installation of Gas vs. Electric Appliances

Another question asked builders to rate the level of influence six different factors have on their decision to install electric vs. natural gas appliances in the new homes they build, using a scale from 1 to 5 where 1='not at all influential' and 5='very influential.' By far, the most influential factor on this decision is 'home buyer preference,' with an average influence rating of 4.2 and 78 percent of respondents rating it influential to very influential (4 or 5). In second place is 'operating cost/amount of energy used,' with an average rating of 3.2 and 46 percent of respondents rating it a 4 or 5.

All other factors are far less influential, with average ratings below 3.0. For example, 'builder profitability' received an average influence rating of 2.8, with only 32 percent rating it 4 or 5. 'Quality of working relationship with utility company' and 'local/national building codes & standards' have even less influence, both with average ratings of 2.6. At the very bottom in terms of influence on a builder's decision to install electric vs. gas appliances is 'financial/other incentives tied to specific appliances,' which only received an average rating of 2.3 (Exhibit 18).

**Exhibit 18: Influence of factors on decision to install electric vs. gas appliances
1=Not at all influential and 5=Very Influential.
(Average Rating)**



Builders across the four census regions agreed the same two factors, and in the same order, have the most influence on their decision to install electric or natural gas appliances. First and foremost, it is ‘home buyer preferences,’ with an average influence rating of 4.4 in the Northeast, 4.2 in the Midwest, 4.1 in the South, and 4.4 in the West. The second factor in every region is ‘operating cost/amount of energy used,’ with average ratings ranging from 3.1 to 3.5 (Exhibit 19).

Interestingly, although ‘home buyer preference’ ranks as the most influential factor for builders of all sizes, its influence does decline a bit as the number of starts rises: from an average rating of 4.4 among builders with 5 or fewer starts to only 3.8 among those with 100+ starts. The second most influential factor on what type of appliances to install is ‘operating cost/amount of energy used’ for all builders who start fewer than 100 units. For those with 100+ starts, on the other hand, ‘builder profitability’ ranks second most influential, with an average rating of 3.3.

**Exhibit 19: Influence of factors on decision to install electric vs. gas appliances –
By Region and Firm Size
(Percent of Respondents)**

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
Home buyer preference									
1=Not at all Influential	4	4	3	6	4	1	5	7	3
2	5	4	4	6	4	2	4	7	16
3	13	4	15	14	9	13	8	19	19
4	23	21	27	23	18	22	23	17	19
5=Very Influential	55	67	51	51	66	61	60	51	42
<i>Average Rating</i>	4.2	4.4	4.2	4.1	4.4	4.4	4.3	4.0	3.8
Responses	316	24	74	162	56	85	92	59	31
Builder profitability									
1=Not at all Influential	27	29	32	26	23	32	29	22	10
2	12	13	9	15	7	11	12	14	10
3	28	25	34	25	33	34	20	34	42
4	15	21	11	18	12	18	16	12	23
5=Very Influential	17	13	14	17	25	6	23	19	16
<i>Average Rating</i>	2.8	2.8	2.6	2.9	3.1	2.6	2.9	2.9	3.3
Responses	317	24	74	162	57	85	92	59	31
Quality of working relationship with utility company									
1=Not at all Influential	33	42	32	32	32	36	35	25	19
2	13	29	7	14	14	11	14	17	19
3	28	13	38	26	25	31	24	27	35
4	17	13	16	19	18	18	21	19	10
5=Very Influential	9	4	7	10	12	5	7	12	16
<i>Average Rating</i>	2.6	2.1	2.6	2.6	2.7	2.5	2.5	2.8	2.8
Responses	316	24	74	161	57	84	92	59	31
Financial/other incentives tied to specific appliances									
1=Not at all Influential	30	29	32	32	21	32	34	27	10
2	21	25	20	18	30	19	18	27	39
3	29	25	32	27	32	32	32	27	29
4	13	13	8	15	12	15	11	14	16
5=Very Influential	7	8	7	7	5	2	5	5	6
<i>Average Rating</i>	2.5	2.5	2.4	2.5	2.5	2.4	2.4	2.4	2.7
Responses	317	24	74	162	57	85	92	59	31

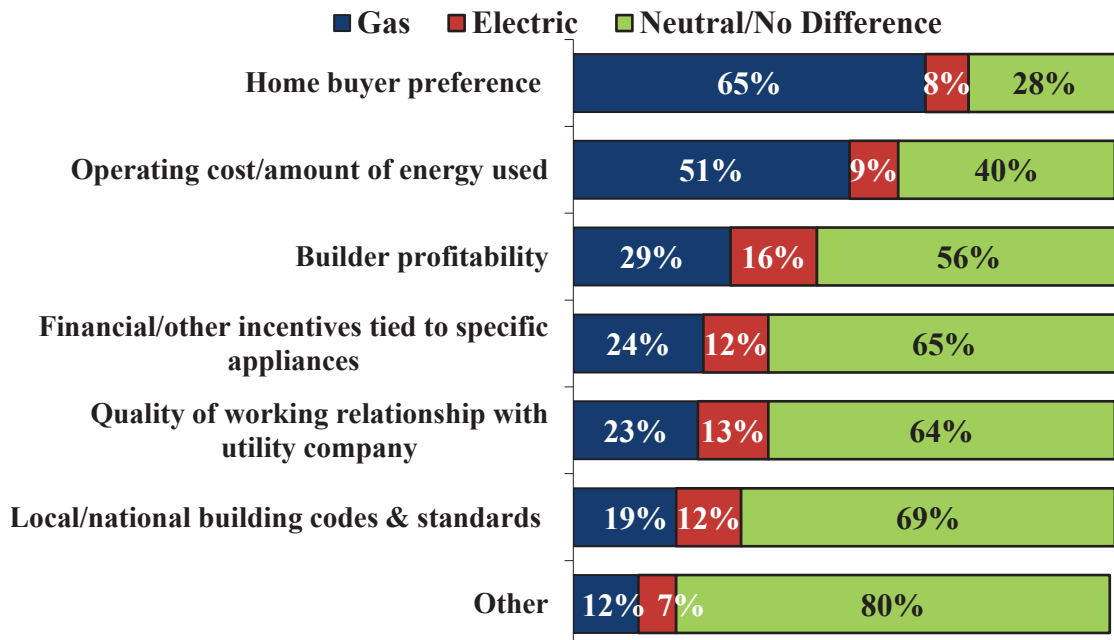
**Exhibit 19: Influence of factors on decision to install electric vs. gas appliances –
By Region and Firm Size
(Percent of Respondents) – continued**

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
Operating cost/amount of energy used									
1=Not at all Influential	15	13	14	18	7	13	17	17	13
2	13	17	9	14	12	6	11	20	26
3	27	29	32	24	30	25	27	29	29
4	25	21	16	29	26	35	21	24	19
5=Very Influential	21	21	28	15	25	21	24	10	13
<i>Average Rating</i>	3.2	3.2	3.4	3.1	3.5	3.5	3.2	2.9	2.9
Responses	317	24	74	162	57	85	92	59	31
Local/national building codes & standards									
1=Not at all Influential	30	33	38	32	16	33	42	22	10
2	10	17	8	11	7	10	7	14	16
3	38	17	36	39	44	35	38	41	42
4	12	21	14	9	12	14	9	14	10
5=Very Influential	10	13	4	9	21	8	4	10	23
<i>Average Rating</i>	2.6	2.6	2.4	2.5	3.2	2.6	2.3	2.8	3.2
Responses	315	24	74	160	57	84	92	59	31
Other									
1=Not at all Influential	49	58	59	49	30	47	58	50	27
2	2			3			3	4	
3	30	8	33	26	50	34	33	21	45
4	9	8	4	9	15	9	3	13	9
5=Very Influential	11	25	4	13	5	9	5	13	18
<i>Average Rating</i>	2.3	2.4	1.9	2.3	2.7	2.3	2.0	2.3	2.9
Responses	128	12	27	69	20	32	40	24	11

A final question asked builders about the fuel type they would install if they could choose based solely on each individual factor mentioned above. As Exhibit 20 shows, if builders could choose what type of appliances to install based exclusively on ‘home buyer preferences’, 65 percent would install gas, 8 percent electric, and 28 percent would be neutral or indifferent between the two fuel types. If the only consideration were ‘operating cost/amount of energy used,’ 51 percent of builders would install gas, 9 percent electric, and 40 percent would be neutral.

Most builders would be indifferent to the choice of gas vs. electric appliances if the decision was based on any of the other factors individually. For example, 56 percent report the choice of fuel type would make no difference if analyzed from the perspective of ‘builder profitability.’ Even larger majorities report fuel type would make no difference to them if the only consideration was ‘financial/other incentive tied to specific appliances’ (65 percent), ‘quality of working relationship with utility company’ (64 percent), or ‘local/national building codes & standards’ (69 percent).

Exhibit 20: If you could choose fuel type based solely on each one of these factors individually, which one would you install? (Percent of Respondents)



Most builders in every region and size category would choose to install gas appliances if the decision was based entirely on ‘home buyer preferences.’ In fact, the share rises with builder size, from 57 percent of those with 5 or fewer starts to 74 percent of those with at least 100 starts. In the Midwest and South, 61 percent of builders would install gas appliances if ‘home buyer preference’ was the only consideration. The shares are higher in the West (75 percent) and Northeast (76 percent) (Exhibit 21). ‘Operating cost/amount of energy used’ is the only other individual factor that would lead a majority (or large plurality) of builders in every region and size category to choose gas as fuel type.

**Exhibit 21: If you could choose fuel type based solely on each one of these factors individually,
which one would you install? By Region and Firm Size
(Percent of Respondents)**

	Total	Region				Total No. of Units Started in 2020			
		NE	MW	S	W	5 or Fewer	6 to 24	25 to 99	100+
Home buyer preference									
Gas	65	76	61	61	75	57	68	68	74
Electric	8	12	7	9	4	7	4	8	6
Neutral/No Difference	28	12	32	30	21	36	28	24	19
Responses	316	25	74	160	57	84	94	59	31
Builder profitability									
Gas	29	28	28	26	37	21	40	27	23
Electric	16	16	7	22	9	12	14	19	19
Neutral/No Difference	56	56	65	52	54	67	46	54	58
Responses	315	25	74	159	57	84	93	59	31
Quality of working relationship with utility company									
Gas	23	12	25	21	30	16	35	19	26
Electric	13	16	12	15	9	13	9	17	10
Neutral/No Difference	64	72	63	64	61	71	56	64	65
Responses	315	25	75	159	56	83	94	59	31
Financial/other incentives tied to specific appliances									
Gas	24	16	24	24	25	14	29	20	33
Electric	12	12	11	11	14	14	9	15	3
Neutral/No Difference	65	72	65	65	61	71	62	64	63
Responses	313	25	74	158	56	83	92	59	30
Operating cost/amount of energy used									
Gas	51	60	56	47	51	44	63	46	48
Electric	9	16	7	9	9	12	7	8	3
Neutral/No Difference	40	24	37	44	40	44	30	46	48
Responses	317	25	75	160	57	84	94	59	31
Local/national building codes & standards									
Gas	19	28	17	15	28	18	26	15	16
Electric	12	20	7	14	11	14	9	15	6
Neutral/No Difference	69	52	76	71	61	68	66	69	77
Responses	316	25	75	159	57	84	94	59	31
Other									
Gas	12	22	15	8	18	9	21	4	
Electric	7	22	3	5	14	6	5	4	
Neutral/No Difference	80	56	82	86	68	84	74	92	100
Responses	138	9	34	73	22	32	42	24	14

Appendix I: Survey Questionnaire: HMI Special Questions for August 2021

1. Of the typical single-family homes you built for-sale in the past 12 months, please indicate the average sales price for comparable homes with and without natural gas. On average, about how many days was each type of home on the market before going under contract?

	Sales Price	Avg. # of Days on the Market	Did not build this type of home in last 12 months
Home <u>with</u> natural gas	_____	_____	<input type="checkbox"/>
Home <u>without</u> natural gas	_____	_____	<input type="checkbox"/>

2. In your experience, how likely are prospective home buyers to request that the following appliances be installed or plumbed for natural gas? Use a scale from 1 to 5, where 1= not at all likely and 5=very likely.

	1=Not at all likely	2	3	4	5=Very likely
Dryer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fireplace (indoor)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Furnace/boiler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range/cooktop	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water heater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Appliances (grills, firepits, tiki torches, outdoor fireplaces, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. During the past year, have you noticed an increase or decrease in buyers' preference for natural gas?

Increase
 Decrease
 No change
 Don't know/Not sure

4. Please rate the level of influence each of the following factors has on the decision of which appliances to install (electric or natural gas) in the new homes you build. Use a scale from 1 to 5, where 1=Not at all influential and 5=Very Influential.

	Not at all Influential: 1	2	3	4	Very Influential: 5
Home buyer preference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Builder profitability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality of working relationship with utility company	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial/other incentives tied to specific appliances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operating cost/amount of energy used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local/national building codes & standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. If you could choose fuel type based solely on each one of these factors individually, which one would you install?

	Gas	Electric	Neutral/ No Difference
Home buyer preference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Builder profitability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality of working relationship with utility company	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial/other incentives tied to specific appliances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operating cost/amount of energy used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local/national building codes & standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Appendix D

“Millennial Homebuyers’ Share Continues to Rise in 2022”

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December 28, 2022

Millennial Homebuyers' Share Continues to Rise in 2022

The youngest cohort, known as Gen Z, is also entering the housing market

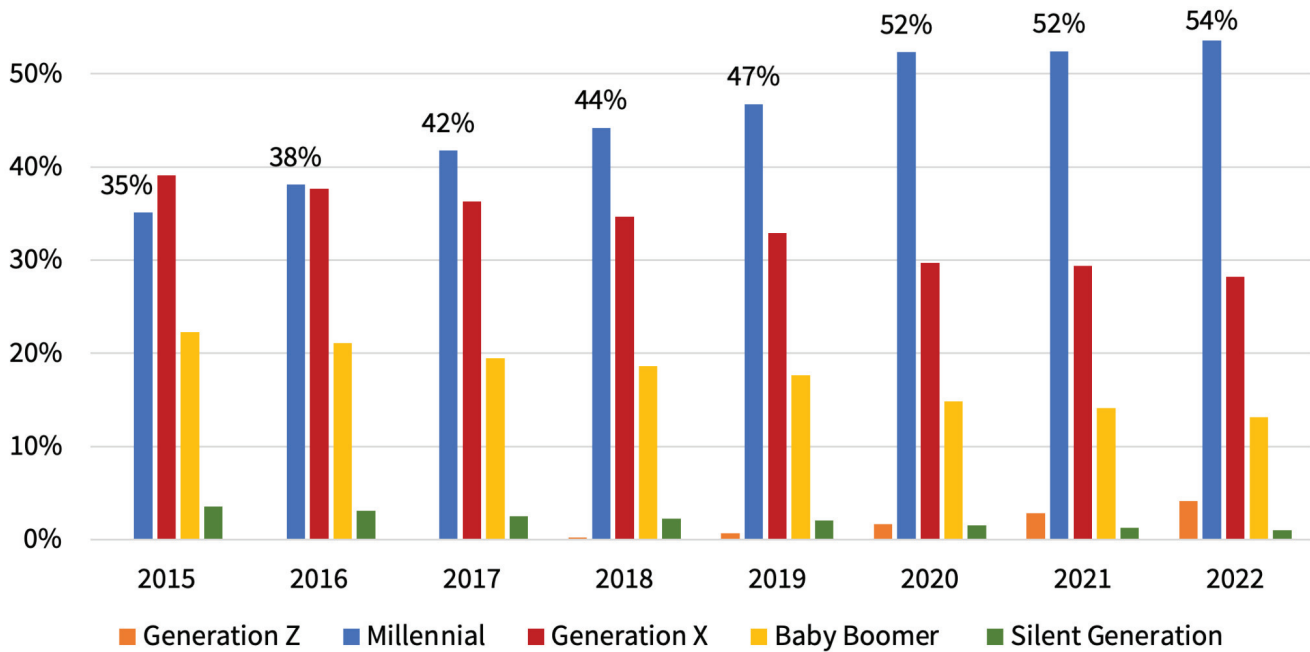
Quick Takes:

- Millennials continue to lead the pack for the number of home purchases, comprising 54% of overall home-purchase applications in 2022.
- For the first time, the youngest Gen Z cohort represents 9% of first-time home purchase applications.
- Millennial demand for houses is likely to remain strong in the coming years since this generation represents the largest number of first-time homebuyers, as well as a substantial number of move-up purchasers.

Millennials have made up the largest share of home purchase mortgage applications for the last six years. According to the CoreLogic Loan Application Database^[1], Millennial homebuyer share rose to its highest level in 2022, comprising about 54% of overall home-purchase applications (Figure 1). The Millennial home purchase share has steadily increased since 2015, rising about two to three percentage points per year.^[2] At the same time, Gen Z — the generation succeeding Millennials whose members were born after 1997 — is entering the housing market. This year, the cohort comprised about 4% of overall home-purchase applications.

Figure 1: Millennial Home Purchase Applications Share Largest Since 2016

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Source: CoreLogic Fraud Consortium Loan Application data.

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Note: Birth years by cohort – Generation Z, after 1997;

Millennial 1981-1997; Generation X 1965-1980; Baby Boomer

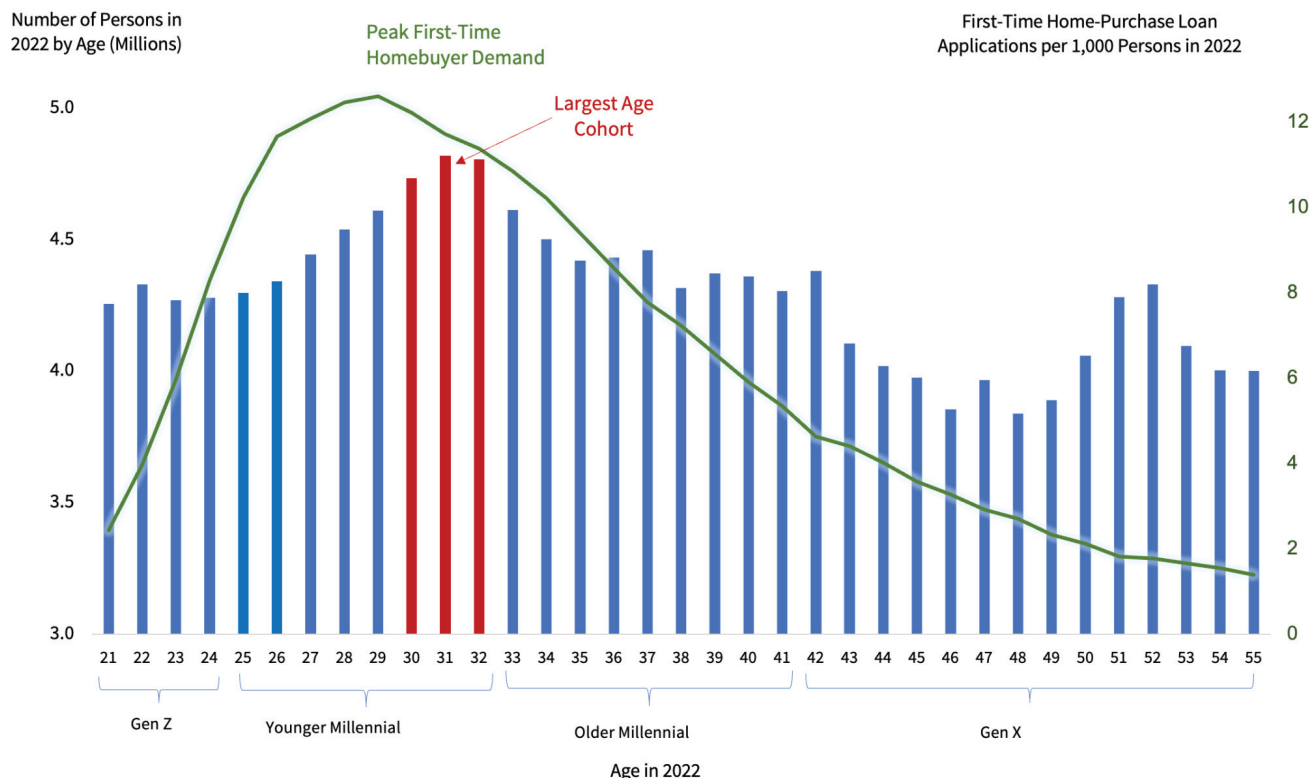
1946-1964; Silent Generation, before 1946

The share of Millennial first-time homebuyer (FTHB) mortgage applications is even higher than the share of overall Millennial home purchase applications, a figure that comprises both FTHB and repeat buyers. About 72% of all the FTHB home-purchase applications in 2022 were from Millennial applicants. This is not surprising, as the largest cohort of the Millennial generation has already approached the peak age of first-time homeownership.

Gen Z, the youngest cohort, made up 9% of the first-time home purchase applications in 2022, up three percentage points from 2021. Their share is likely to increase in the coming years.

Figure 2: Largest Age Cohort Enters the Peak of First-Time Homebuyer Wave





Source: CoreLogic Fraud Consortium Loan Application data and U.S. Census Bureau

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Figure 2 shows the U.S. population distribution by age, and the left axis highlights the largest demographic cohort reaching the peak age of FTHB. The right axis of the chart, displayed by the green line, represents first-time home-purchase loan applications per 1,000 individuals in 2022. For example, the highest share of FTHB is among younger Millennials who are aged 29. Data shows that more than 12 in 1,000 Millennials at age 29 were FTHBs in 2022.

There are still many younger Millennials under 30 who have yet to become homeowners, so the demand from these Millennials is likely to remain strong in the coming years. At the same time, older Millennials are more likely to become repeat homebuyers. The share of Millennial repeat buyer home-purchase applications was already 43% in 2022, eight percentage points higher than Gen X's share.

That said, while the demographic tailwind remains favorable for the home purchase market, historically low for-sale inventories along with sky-high home prices and higher mortgage interest rates create affordability challenges. These headwinds may slow the influx of new Millennials entering the home purchase market. In addition to younger Millennials, Gen Z members are also likely to fuel the demand for housing over the next couple of years, especially if affordability improves.



[1] This analysis is based on all home-purchase mortgage applications, accepted or not, from January 2015 to October 2022. Investors and second-home buyers were excluded from the analysis.

[2] In 2020, the growth in Millennial share was more than five percentage points from 2019. The additional half of the 2020 jump was likely driven by the pandemic. The increase was likely accelerated by record-low mortgage interest rates and the flexibility to work remotely.

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